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OPERABLE UNIT 3 ESTIMATED MATERIAL QUANTITIES VOLUME 1 OF 1 - SEPTEMBER 1995 - FINAL

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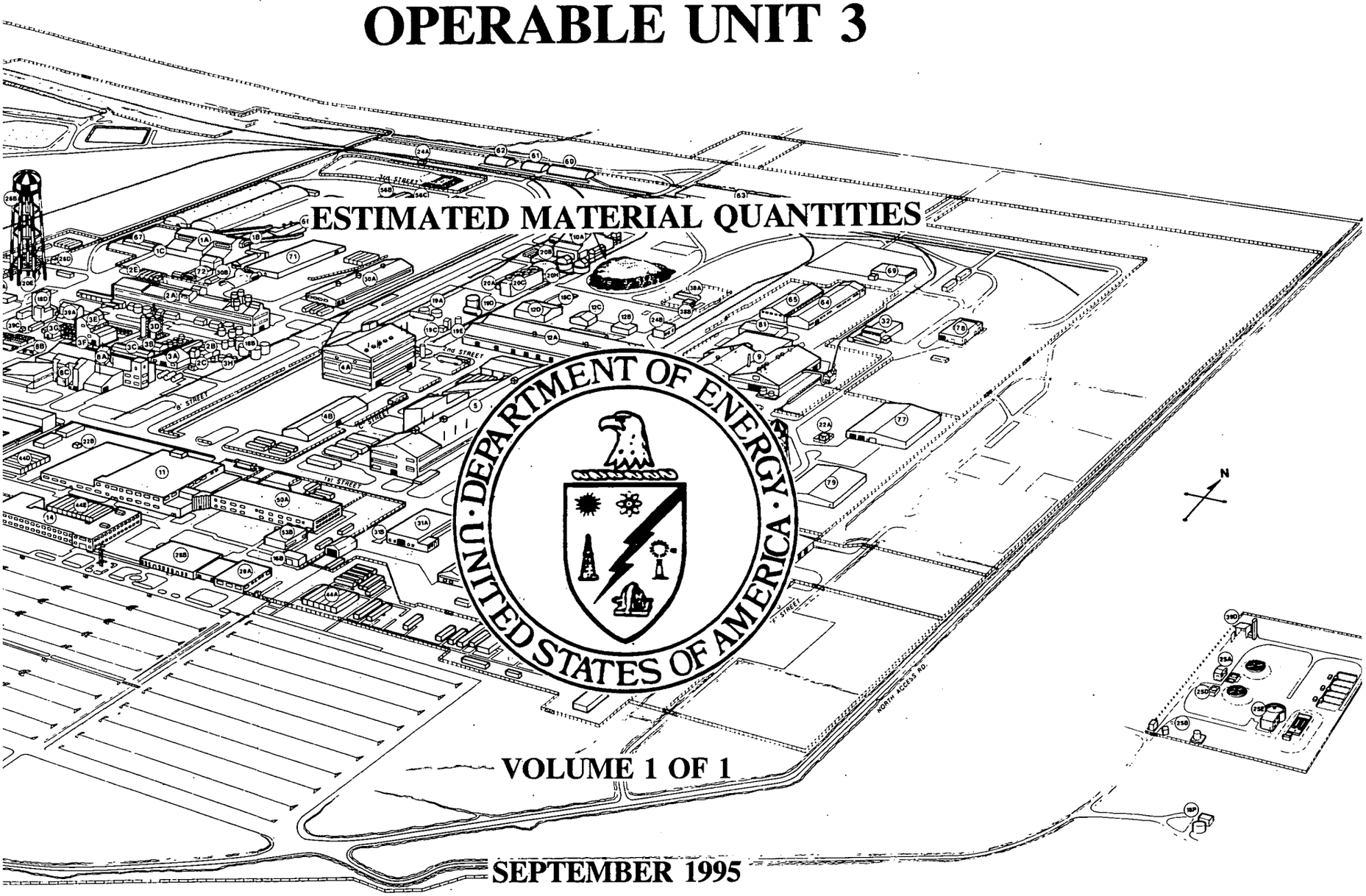

ESTIMATED MATERIAL QUANTITIES

VOLUME 1 OF 1

SEPTEMBER 1995

FERNALD ENVIRONMENTAL MANAGEMENT PROJECT
FERNALD, OHIO

U.S. DEPARTMENT OF ENERGY
FERNALD AREA OFFICE

FINAL

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NOTATION

Abbreviations, Acronyms, and Initials

ACM	asbestos-containing material(s)
AMITS	All Materials Inventory and Tracking System
AWWT	advanced wastewater treatment
BDN	biodenitrification
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
CRU3	CERCLA/RCRA Unit 3
D&D	decontamination and dismantlement
DEC	design-engineering-construction
DOE	United States Department of Energy
DOE-FN	United States Department of Energy - Fernald Field Office
EDL	economic discard level
EES	Energy and Environmental Services Corporation
FEMP	Fernald Environmental Management Project
FERMCO	Fernald Environmental Restoration Management Corporation
FS	feasibility study
FY	fiscal year
HEPA	high-efficiency particulate air
HWMU	Hazardous Waste Management Unit
IROD	Record of Decision for Interim Remedial Action
LLW	low-level (radioactive) waste
MC&A	Materials Control and Accountability
MEF	Material Evaluation Form
MMICS	Maintenance Management Information Control System
N/A	not applicable
NCP	National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300
NTS	Nevada Test Site
O&M	operations and maintenance
OEPA	Ohio Environmental Protection Agency
OU(s)	operable unit(s)
OU3	Operable Unit 3
OU3 PP/EA	OU3 Proposed Plan/Environmental Assessment for Interim Remedial Action
OU5	Operable Unit 5
PCB	polychlorinated biphenyl
PPE	personal protective equipment
PSR	OU3 Remedial Design Prioritization and Sequencing Report
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RD/RA	remedial design/remedial action
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
ROD	record of decision

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OU3 ESTIMATED MATERIAL QUANTITIES

SWIFTS	Sitewide Waste Information, Forecasting, and Tracking System
SWRB	Storm Water Retention Basins
TSS	tension support structure
USEPA	United States Environmental Protection Agency
WAC	waste acceptance criteria
WEMCO	Westinghouse Environmental Management Company of Ohio
WMB	small (white) metal boxes
WPA	Work Plan Addendum

Units of Measure

CUFT	cubic feet
CUYD	cubic yard(s)
FT	foot (feet)
GAL	gallon(s)
HR	hour
IN	inch(s)
kV	kilovolts
LBS	pounds
LBS/CUFT	pounds per cubic feet
LBS/FT	pounds per foot
LBS/LNFT	pounds per linear foot
LBS/SQFT	pounds per square feet
LNFT	linear foot
OUNCES/SQYD	ounces per square yard
SEC	second(s)
SQFT	square foot (feet)
SQYD	square yards
V	Volts

GLOSSARY OF THE "INVENTORY" and "FORECASTING" MODULES OF THE SWIFTS DATABASE

A partial glossary of the major fields in the "Inventory" and "Forecasting" modules of the Sitewide Waste Information, Forecasting, and Tracking System (SWIFTS) database is represented below.

ASBESTOS CONT MAT PCT -

The percentage of asbestos containing material contained in a single forecasting record. If the asbestos containing material percentage = 90 and the unbulked volume = 200 cubic feet (CUFT), then the amount of asbestos containing material would be 90% of 200 CUFT (180 CUFT).

BULKED VOLUME -

The bulked volume in CUFT. The bulked volume represents the actual volume that is containerized. This field is calculated by multiplying the unbulked volume by the appropriate bulking factor. See Table 3-7 for a listing of all the bulking factors for each material/material description.

BULKING FACTOR -

The factor used to obtain the bulked volume. This factor is a ratio of the containerized volume of a given material divided by its in-place volume. If the bulking factor is 2 and the unbulked volume is 10 CUFT then the bulked volume is (10 CUFT)(2) = 20 CUFT.

CATEGORY PERCENT -

The percentage a record is split into to obtain quantities for different remedial design/remedial action (RD/RA) and remedial investigation/feasibility study (RI/FS) categories.

COMMENTS -

A field in the forecast wastes table which allows for any general comments to be made concerning that record.

COMPLEX -

A group of components anticipated to be remediated as one large unit.

COMPONENT -

A physically distinct unit (i.e. building, pond, basin, metal pile).

COMPONENT CATEGORY -

A numeric value (1-11) assigned to each OU3 record based on the source code. All records with the same source code will have the same component category. The eleven component categories are defined as follows:

1. Administrative/Support Buildings - Category 1 includes all administrative and support buildings.

2. Warehouse/Storage Buildings - Category 2 consists of all warehouse and storage buildings.

3. Process Buildings - Category 3 includes all buildings that housed major processing activities.

4. Process Support Buildings - Category 4 includes all buildings that provided or provide support for plant operations.

GLOSSARY (Continued)

5. Containers/Containerized Material, Aboveground (includes all drums) - Category 5 includes: all aboveground containers (whether empty or not) and containerized material; all waste and product inventories, including hold-up material; and all uranium and thorium inventories. Category 5 does not include tanking/piping/distribution systems or bulk stored materials.

6. Containers/Containerized Material, Belowground - Same as Category 5, except components are belowground.

7. Bulk Material (includes waste piles) - Category 7 includes all existing scrap metal piles, copper piles, soil piles, and similar items within OU3 scope. It also is intended that this category will include any newly generated soil piles, rubble piles, and the like that result from ongoing activities both in and out of the scope of OU3.

8. Storage Pads/Parking Lot/Roads/Railroads - Category 8 consists of waste storage or handling pads, railroads, roads, the parking lot, and sidewalks.

9. Piping/Utilities/Equipment, Aboveground - Category 9 includes all aboveground piping and utility systems, including outside tank and distribution systems.

10. Piping/Utilities/Equipment, Belowground - Category 10 includes all underground piping and utility systems.

11. Ponds and Basins - Category 11 includes surface impoundments, ponds, and basins. The largest of these are biodenitrification (BDN) surge lagoon and the storm-water retention basins.

CONTAMINATION CATEGORY -
This field links each record to the appropriate RI/FS category and RD/RA category in order to allow for different RI/FS categories and RD/RA categories, percentage splits between these categories, and bulking factors to be applied to each record within the same material/material description.

CREATION USER -
This field identifies the person who entered or made any modification to a record.

CREATION DATE -
This field identifies the date when a record was entered or modified.

CRU -
A numeric field which contains the proper OU or CRU of the material's origin.

GLOSSARY (Continued)

ELEVATION -

Most above-grade material quantities are given a level (floor elevation in feet) based primarily on the existing floor elevations identified on the architectural construction drawings for the building. The number of elevations has been kept as simple as possible, depending on the type and size of each building. Thus, for example, relatively small access platforms (with less than 200 square feet of plan area) are included with the elevation directly below.

Interior building components are assigned to the nearest elevation located at or below the actual elevation of the item. Therefore, components such as piping, conduit, and ductwork are assigned to the main elevation located below, even if they are supported from the framing above. Exterior building components and components which extend vertically for several levels are assigned universally to the ground floor elevation, including such items as steel buildings columns, exterior wall framing, exterior wall transite or panels, exterior block walls, building insulation, doors, windows, and louvers, etc. The roof elevation is only identified separately for multi-level buildings; for single-level buildings all material components are assigned to the ground floor elevation.

FREE RELEASIBLE PCT -

The percentage of free releasible material contained in a single forecasting record. If the free releasible percentage = 90 and the unbulked volume = 200 CUFT then the amount of free releasible material would be 90% of 200 CUFT (180 CUFT).

FS CATEGORY -

All OU3 material quantities have been given a material segregation/management category. See Table 3-3 for a listing of all the RI/FS categories and which material descriptions are contained in them.

FWASTE SEQ NBR -

Number assigned by the SWIFTS Forecasting database to uniquely identify records.

GRADE LEVEL -

A 11 digit field that describes whether the material is above-grade, at-grade, or below-grade.

GENERATION START DATE -

A date given to a record when remediation of that material is to start.

GENERATION END DATE -

A date given to a record when remediation of that material is to end.

ITEM -

A 50 digit field that identifies a specific piece(s) of material inventoried. An example of an item for the material steel could be W10 X 15 Members.

LEADING REMEDIAL ALTERNATIVE -

The preferred remediation option selected for that record.

GLOSSARY (Continued)

LOW LEVEL WASTE PCT -
The percentage of low level waste material contained in a single forecasting record. If the low level waste percentage = 90 and the unbulked volume = 200 CUFT then the amount of low level waste material would be 90% of 200 CUFT (180 CUFT).

MATERIAL -
A 30 digit field representing matter of similiar substances such as concrete, metal panels, etc. See Table 3-7 for a listing of all the OU3 materials.

MATERIAL DESCRIPTION -
A 60 field code that breaks out the material field into more defined substances. For example, the material descriptions associated with the material insulation currently in SWIFTS are building insulation, ductwork insulation, and piping insulation. See Table 3-7 for a listing of all the OU3 material descriptions.

MIXED WASTE PCT -
The percentage of mixed waste material contained in a single forecasting record. If the mixed waste percentage = 90 and the unbulked volume = 200 CUFT then the amount of mixed waste material would be 90% of 200 CUFT (180 CUFT).

OFF SITE PCT -
The percentage of material contained in a record that is expected to be dispositioned off-site.

ON SITE PCT -
The percentage of material contained in a record that is expected to be dispositioned on-site.

PCB PCT -
The percentage of polychlorinated biphenyl (PCB) material contained in a single forecasting record. If the PCB percentage = 90 and the unbulked volume = 200 CUFT then the amount of PCB material would be 90% of 200 CUFT (180 CUFT).

PROCESS AREA -
A numeric value used to represent a certain area in a source. Process areas are identified by particular chemical processes within a source or for other areas, the term process area is used to indicate contiguous areas with common activities.

RCRA PCT -
The percentage of Resource Conservation and Recovery Act (RCRA) material contained in a single forecasting record. If the RCRA percentage = 90 and the unbulked volume = 200 CUFT then the amount of RCRA material would be 90% of 200 CUFT (180 CUFT).

RDRA CATEGORY -
A material segregation/management category based on the RD/RA methodology.

RECYCLE PCT -
The percentage of material contained in a single forecasting record to be recycled. If the recycle percentage = 90 and the unbulked volume = 200 CUFT then the amount of recycled material would be 90% of 200 CUFT (180 CUFT).

GLOSSARY (Continued)

SOURCE CODE -
A 12 digit field that represents a certain location of a material's origin such as a plant, building, pad, waste piles, utilities, basins, etc. This field can also be called component.

TAKEOFF QUANTITY -
A numeric field which contains the amount of material inventoried for one record.

TAKEOFF QUANTITY UNIT -
A 15 digit field which identifies the unit that the takeoff quantity was estimated in. Most similiar materials have the same takeoff quantity unit.

TAKEOFF TOTAL -
This field sums up all the takeoff quantities for all records with the same OU, source code, material, material description, and grade level.

UNBULKED VOLUME -
The volume in CUFT. This field is calculated by multiplying the takeoff quantity by appropriate conversion factors. Different factors are used for different materials and takeoff quantity units.

UNBULKED VOLUME REFERENCE -
This field represents the reference for the unbulked volume.

UNBULKED VOLUME TOTAL -
This field sums up all the unbulked volumes for all records with the same OU, source code, material, material description, and grade level.

UNIT WEIGHT -
A quantity selected as a standard of measurement for each material description.

UNIT WEIGHT UNIT -
This field represents the type of unit used in the unit weight field.

UNIT WEIGHT REFERENCE -
This field represents the reference for the unit weight.

WASTE WATER PCT -
The percentage of waste water material contained in a single forecasting record. If the waste water percentage = 90 and the unbulked volume = 200 CUFT then the amount of waste water material would be 90% of 200 CUFT (180 CUFT).

WORK TYPE -
A 40 digit field that describes the type of demolition being performed for certain materials. An example of a work type for the material steel could be Floor Framing Demo.

GLOSSARY (Continued)

WEIGHT -

The estimated weight in tons. This field is calculated by multiplying the takeoff quantity by appropriate conversion factors. Different factors are used for different materials and takeoff quantity units.

WEIGHT REFERENCE -

This field represents the reference for the weight.

WEIGHT TOTAL -

This field sums up all the weights for all records with the same OU, source code, material, material description, and grade level.

1.0 INTRODUCTION

This document presents the quantities of the multitude of materials in Operable Unit 3 (OU3) at the Fernald Environmental Management Project (FEMP). OU3 consists of the former production area and support facilities. Many materials were used in constructing OU3; Section 2.0 provides a general description of the OU3 facilities. An extensive effort has been undertaken by several different organizations to quantify these materials. This document brings this effort together in a uniform format for use by many FEMP organizations.

This document will support the OU3 Remedial Investigation/Feasibility Study (RI/FS) Report, the OU3 Remedial Design/Remedial Action (RD/RA) Work Plan for Interim Remedial Action, the OU3 RD/RA Work Plan for Final Remedial Action, the OU3 Remedial Design Prioritization and Sequencing Report (PSR), any OU3 cost estimating efforts, and any OU3 long-term planning efforts.

In order to facilitate a material quantification system that is user friendly and implementable, a material categorization system was developed. Initially, this system was developed to support the OU3 RD/RA Work Plan for Interim Remedial Action and the first decontamination and dismantlement (D&D) design package (Building 4A). With the inception of the OU3 RI/FS Report, these categories were revised to support the characterization, identification, and screening of remedial technologies, cost estimates, and identification of disposition options for OU3 materials. Section 3.1 of this document provides details on these material categories and provides a crosswalk between the two sets of material categories.

The OU3 material quantities are maintained in the Sitewide Waste Information, Forecasting, and Tracking System (SWIFTS), an ORACLE database. The forecasting module of SWIFTS contains OU3 material quantities and other information. SWIFTS is a living database and will be updated as better data are available. Section 3.2 presents a discussion on the SWIFTS database. Section 3.3 provides details and assumptions utilized to perform the actual material take-offs and quantity calculations done to support the material quantification effort. Section 3.4 provides conversion and bulking factors used to develop the quantities presented in this report.

Section 4.0 provides summaries of OU3 material quantities by OU3 RI/FS categories.

The appendices of this document present detailed reports of quantity estimates by component and D&D remediation complex as defined in the final PSR.

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2.0 PHYSICAL DESCRIPTION OF OU3

Operable Unit 3 (OU3), primarily the former Production Area, consists of most man-made facilities, structures, and equipment (including all above- and below-grade improvements), including, but not limited to, all structures, equipment, utilities, drums, tanks, solid waste, waste, nuclear product, thorium, effluent lines, K-65 transfer line, wastewater treatment facilities, fire training facilities, scrap metals piles, feedstocks, and coal pile. These facilities and inventories are primarily located in a 136 acre area near the center of the Fernald site. OU3 specifically does not include the soil and groundwater under the various facilities; these environmental media are being addressed within the scope of OU5.

The structures and supporting facilities within OU3 are referred to as components. Because of the complexity and large number of structures and improvements included in OU3, the planning process for the OU3 RI/FS Report required the categorization of the 233 components into 11 component categories listed in Appendix A. The basis for identifying and categorizing OU3 components was developed in the OU3 RI/FS Work Plan Addendum (DOE 1993a) (WPA).

Table A.2.0 of the WPA defines the four types (A-D) of building construction that are generally found in OU3. The type of building construction for each of the OU3 components is given in the Component Description write-ups in Appendix D.9 of the WPA. The four general types of building construction in OU3 are summarized below.

Type A: Structural steel frame on reinforced concrete base, reinforced concrete ground floor, steel plate flooring for above-grade floors, transite walls, and transite roof.

Type B: Concrete masonry unit construction on reinforced concrete footings with reinforced concrete floors and a reinforced concrete roof.

Type C: A pre-fabricated facility consisting of a steel frame on reinforced concrete base, reinforced concrete ground floor, steel wall panels, and steel roof panels.

Type D: Wood framed construction with wood roof and wall siding.

In addition to the 11 component categories, the site was divided into 33 grids to aid the development of the at- and below-grade quantities. These grids, along with the component numbers, are shown on Figure 2-1.

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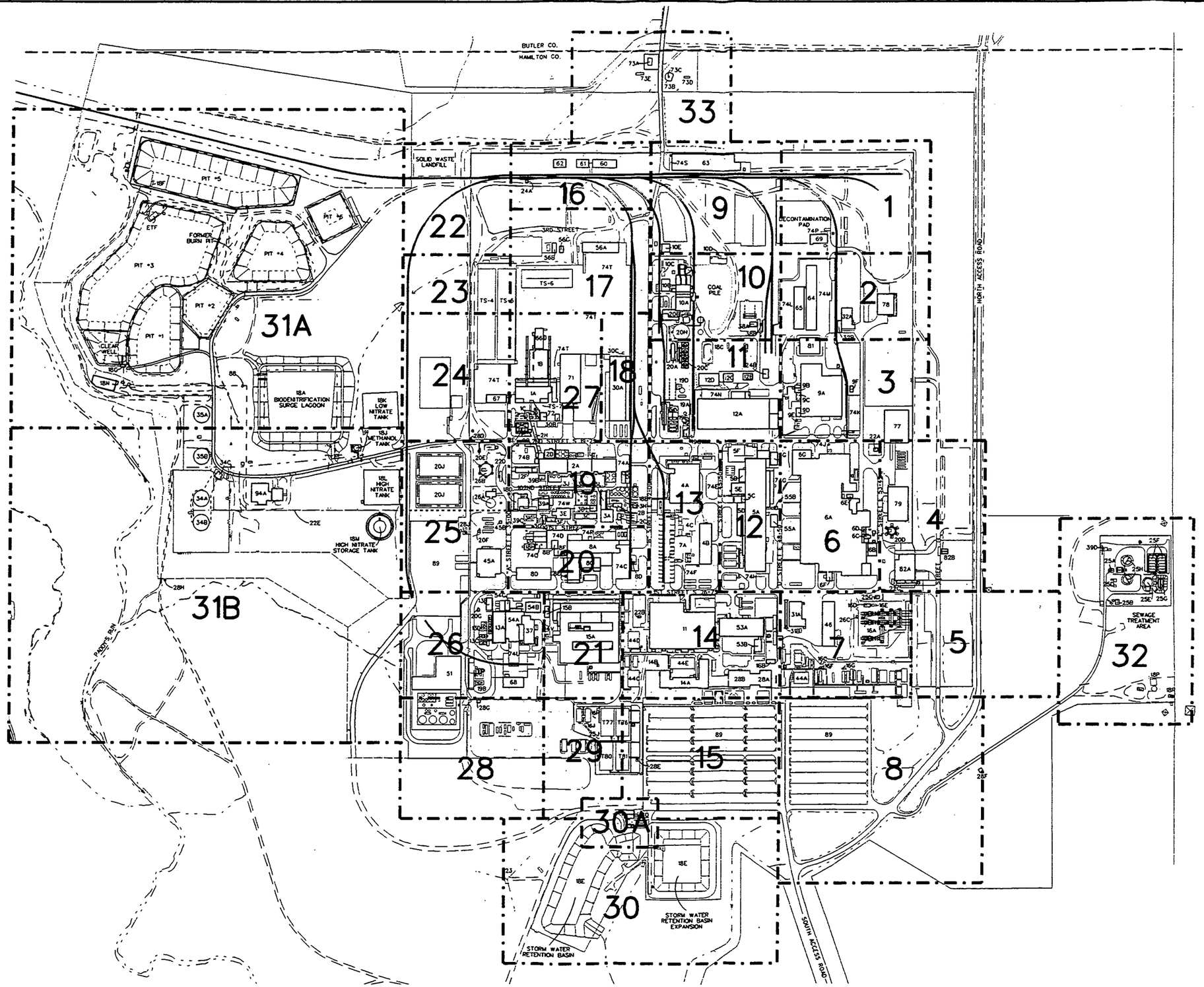

NOTE:
REFER TO THE OU3 RI/FS REPORT
FOR COMPONENT DESCRIPTIONS

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U.S. DEPARTMENT OF ENERGY

OU3 SITE GRID LAYOUT

DATE 05/19/95
DRAWN

FIGURE 2-1

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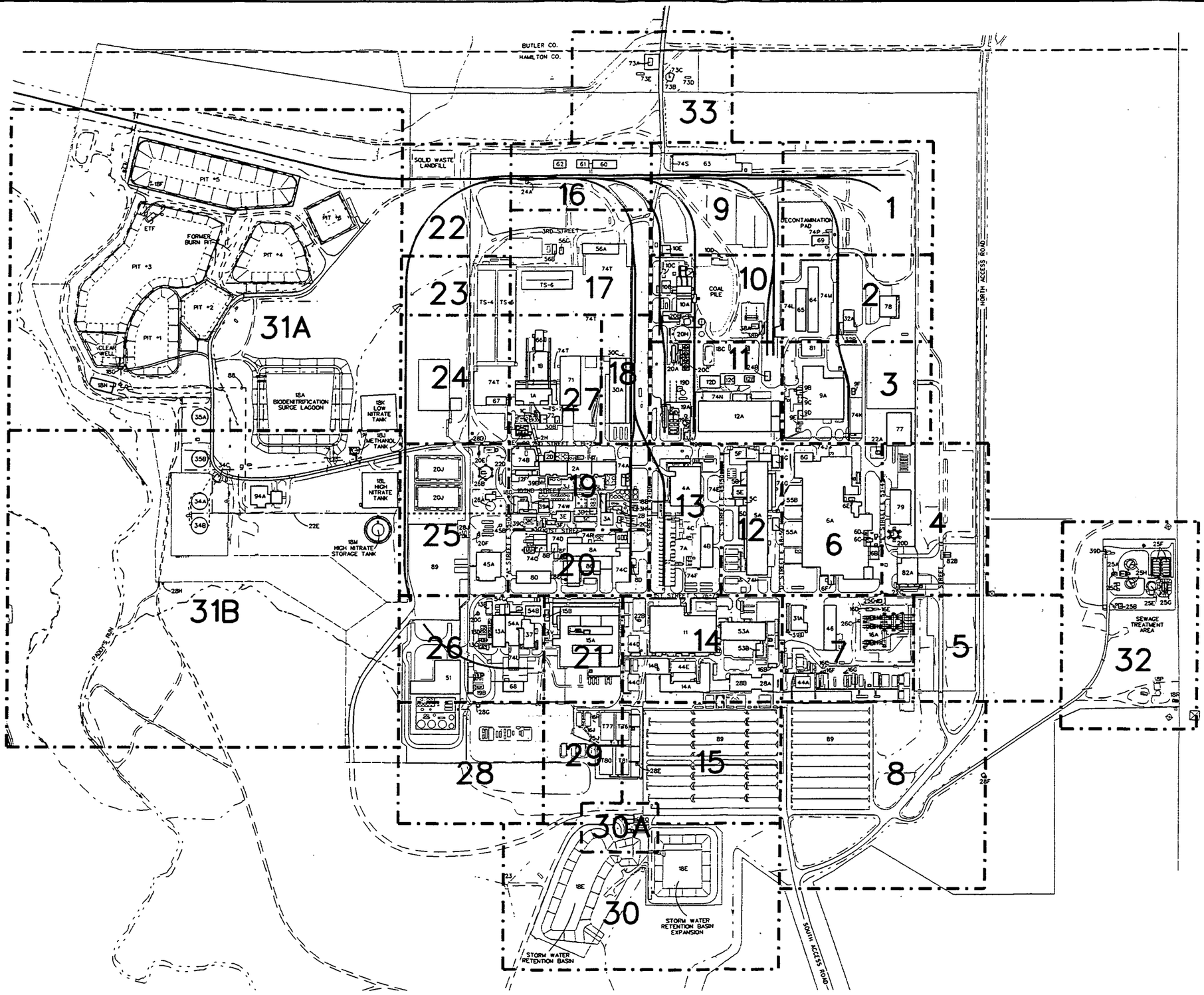

NOTE:
REFER TO THE OU3 RI/FS REPORT
FOR COMPONENT DESCRIPTIONS

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FERNALD ENVIRONMENTAL RESTORATION MANAGEMENT CORPORATION

FERMCO

Fernald Environmental Management Project

U.S. DEPARTMENT OF ENERGY

OU3 SITE GRID LAYOUT

DATE 05/19/95

DRAWN

FIGURE 2-1

FILE NAME: /usr/ermo5/3aaa1/dgn/ou3grid.dgn

3.0 OU3 MATERIAL QUANTITY ESTIMATES

The quantity estimates of OU3 have been compiled over a period of a few years starting in May 1993 and coming to a close in January 1995. Table A.7 of the OU3 WPA contains the first set of OU3 material quantity information. The material quantities in the WPA contain limited information and a majority of the data have been superseded by more detailed estimates completed by PARSONS (Phases One and Two) and Fernald Environmental Restoration Management Corporation (FERMCO).

Under Phase One, PARSONS completed an above-grade material quantity estimate of most of the former production buildings (127 buildings) in April 1994. The resulting data were presented in the OU3 Material Quantity Waste Inventory Report, Revision D, (PARSONS 1994a). Under Phase Two, PARSONS completed an above-grade material quantity estimate of all the administration buildings and any components not inventoried during Phase One (59 buildings) in January 1995. FERMCO estimated all the at- and below-grade materials as well as all floor tile, acid brick, fire brick, personal protective equipment (PPE), and feeder cable. Table 3-1 identifies the 127 Phase One components and the 59 Phase Two components.

3.1 OU3 Material Category Development

The primary drivers for the development of a material categorization system include providing a framework to facilitate characterization, identifying and screening technologies to identify disposition options, and aiding in the development/continuation of an implementable material management and tracking system.

Two material categorization systems have been developed for the OU3 materials. Initially, the RD/RA material categories were developed to support the OU3 RD/RA Work Plan for Interim Remedial Action and the first D&D design package (Building 4A). With the inception of the OU3 RI/FS Report, the RD/RA material categories were replaced with RI/FS material categories to incorporate the following:

- characterization of OU3 materials, considering available analytical data;
- the identification and screening of technologies, considering OU3 material matrices and contaminant types and concentrations;
- the identification of interim storage requirements based on material matrices and contaminant types and concentrations;
- the identification of disposition options based on material matrices and contaminant types and concentrations, including unrestricted release and recycling viability; and
- aid in the development of cost estimates to support the FS.

3.1.1 RD/RA Material Categories

The RD/RA material categorization system was developed based on characterization and disposition options. Characterization of materials constitutes the first criteria for segregation; however, since most materials in OU3 are low-level radioactive waste, the main focus of segregation is according to material type to facilitate off-site disposal, potential off-site processing/disposition, on-site interim storage, and potential on-site treatment. Table 3-2 presents the RD/RA material categories.

3.1.2 RI/FS Material Categories

The RD/RA material categories were superseded by the RI/FS material categories presented in the OU3 RI/FS Report. Table 3-3 presents the breakdown by material description of each RI/FS material category. Since the OU3 RD/RA Work Plan for Interim Remedial Action and the Building 4A design specifications and Building 4A Implementation Plan utilized the RD/RA material categories, a cross-reference between the two sets of material categories is provided in Table 3-4.

During the development of the RI/FS material categories, nine material categories were initially identified (Categories A-I). As the development of the OU3 RI/FS Report progressed, it was determined that there were additional OU3 materials which did not fall under one of the initial nine material categories. To provide a means of quantifying these materials, an additional OU3 RI/FS material category was created (Category J). Section 3.1.3 presents the methodology utilized for the development of the quantities included in Category J.

OU3 RI/FS Category A - Accessible Metals: Structural steel and steel decking have large accessible surface areas and thicknesses which are greater than 1/4 inch. The surface of accessible metals can be easily decontaminated using physical surface decontamination techniques and subsequently surveyed prior to disposition.

OU3 RI/FS Category B - Inaccessible Metals: Non-process piping, equipment in non-process areas, decontaminated process equipment, conduit/wire, electrical fixtures, miscellaneous electrical items, doors, and other miscellaneous metals are included in this category. These materials have surfaces which cannot be easily decontaminated or surveyed, and thus are considered inaccessible.

OU3 RI/FS Category C - Process-Related Metals: Process equipment, electrical equipment not included in Category B, and process piping which are assumed to be highly contaminated and to contain hold-up material.

OU3 RI/FS Category D - Painted Light-Gauge Metals: Ductwork, louvers, metal wall and roof panels, and sheet lead are painted metals less than 1/8 inch thick. Metals in this category are assumed to be painted with lead-based paint or, in the case of lead sheeting, to be made of lead themselves. Based on the possible presence of lead and other contaminants regulated by the Resource Conservation and Recovery Act (RCRA) metals, these materials may be designated as hazardous/mixed waste.

OU3 RI/FS Category E - Concrete: Concrete, masonry, asphalt, and clay piping are all porous construction materials.

OU3 RI/FS Category F - Brick: Acid brick was used extensively to line floors, drain areas, and trenches in process areas utilizing corrosive chemicals, and thus is expected to be highly contaminated.

OU3 RI/FS Category G - Non-Regulated Asbestos-Containing Materials (ACM): Transite walls and roofs, refractory (fire brick and insulating brick) materials, ceiling demolition, floor tile, and feeder cable are ACM which are non-regulated and non-friable.

OU3 RI/FS Category H - Regulated ACM: Piping insulation, ductwork insulation, copper scrap metal pile, and PPE which are classified as regulated ACM because either the material matrix is potentially friable ACM (e.g., insulation), or in the case of personal protective equipment (PPE), contaminated with asbestos fibers during asbestos abatement activities.

OU3 RI/FS Category I - Miscellaneous Materials: Other miscellaneous items present in the structures and buildings in OU3 including windows, wood, built-up roofing, building insulation (non-ACM), drywall, process and non-process trailers, polyvinyl chloride (PVC) pipe, fabric roofs and walls, PPE, and other miscellaneous debris. Neither the characteristics nor the volume of material indicate a need to categorize these materials separately.

OU3 RI/FS Category J is discussed in Section 3.1.3 and quantified in Appendix D.

3.1.3 Containerized Material Inventory

OU3 RI/FS Category J - Product, Residues, and Special Materials: The coal pile, sand piles, soil piles, rock salt pile, the outside equipment storage area, and scrap metal pile are large quantities of material which were not characterized as part of the RI process but were administratively considered to be relatively uncontaminated. This category also includes the containerized material inventory (hazardous/mixed waste, nuclear product, product residues, low level waste, and the thorium inventory) which are considered part of OU3.

The containerized material inventory is comprised of materials that are currently in storage and are accounted for in the SWIFTS database. The remainder of material descriptions within RI/FS Category J are presently unquantified. The containerized material has been quantified into three main tables (product, thorium, and other) with three subsections or waste types (Non-RCRA, RCRA, and uncharacterized) within each table. The containerized material inventory has been summarized below. Please refer to Appendix D for more detailed explanations on each table and waste type. Appendix D also further defines each of the three tables by adding a location and material description field.

Summary of OU3 RI/FS Category J Containerized Material Inventory as of August 21, 1995

	Non-RCRA		RCRA		Uncharacterized	
	Number of Containers	Weight (Lbs)	Number of Containers	Weight (Lbs)	Number of Containers	Weight (Lbs)
Product	24,282	10,361,268	547	200,615	13,213	6,205,655
Thorium	4,529	3,345,644	16	12,485	1,891	792,709
Other	15,326	6,992,950	4,511	5,442,735	13,659	6,231,920

3.2 SWIFTS DATABASE

SWIFTS is a user-friendly, menu-driven database which enables users to quickly and accurately obtain necessary information concerning sitewide materials. This practice ensures all personnel are accessing the same information, thereby eliminating the question of data integrity and consistency. SWIFTS also features user-friendly forms for data entry, forecasting, and reporting. The system utilizes ORACLE software and resides on the VAX mainframe. All OU3 material quantity estimates have been integrated into the forecasting module of the SWIFTS database.

The waste forecasting module of SWIFTS is a powerful tool that will allow users to quickly access information pertaining to the material quantities in OU3 such as component, type of material, unbulked volume, bulking factor, bulked volume, weight, references, RI/FS category, and potentially the number of containers needed, types of wastes (low-level waste, RCRA waste, mixed waste, etc.) to be generated and on-property/off-site disposal quantities.

The SWIFTS OU3 "forecasting" data have been validated as of January 27, 1995. Even though SWIFTS contains the best available OU3 material quantities, Design, Engineering, and Construction (DEC) teams will be required to verify and refine quantity estimates and provide data/feedback to CRU3 Engineering. As revised estimates are prepared, they will be entered into SWIFTS.

There are also a few inconsistencies within the SWIFTS OU3 "forecasting" data which should be noted. All quantities for component G-002 (Roads) are identified by Source G-002, whereas all quantities for component G-001 (Railroad Tracks) are identified by which grid the tracks are in. The road quantities do not overlap the pad quantities and the item field identifies the street or grid where the material is quantified. G-001, the Railroad Tracks, can be found in the SWIFTS system by looking at the grid where the tracks are found. The steel tracks are in the steel material field and the item field is rail track. The railroad ties are in the wood material field and the item field is railroad ties.

3.3 MATERIAL DESCRIPTIONS AND ASSUMPTIONS

Material quantity estimate data were developed from existing site drawings (design and as-built) or were recorded after field surveys. All material quantity estimates determined by drawing take-offs were verified to the extent practicable by field surveys. The majority of the site drawings were dated in the 1950s. Based on the age and changes that have occurred within the facilities, the drawings were assumed to be less accurate than the field survey data. Therefore, whenever data conflicts existed, the field survey data were used in place of the drawing take-off data.

Field verification was not possible in areas with hidden components, such as many of the below-grade materials, piping above drop ceilings, or where access was not possible, such as locked or occupied offices. Field notes provided documentation for areas where field verification was not possible (PARSONS 1994b).

3.3.1 Asphalt

Takeoff Quantity: Asphalt takeoff units were reported in cubic yards (CUYD). This material includes all asphalt roads, walkways, pads, and parking lots. All asphalt quantities in SWIFTS are considered at-grade in the grade level field.

Unbulked Volume: The unbulked volume for asphalt was calculated by taking the takeoff quantity in CUYD and multiplying by 27 to get to cubic feet (CUFT).

Weight: The weight for asphalt was calculated by multiplying the takeoff quantity by the assumed density of 81 pounds per cubic foot (LBS/CUFT).

3.3.2 Ceiling Demolition

Takeoff Quantity: Ceiling demolition takeoff units were reported in square feet (SQFT). Ceiling demolition systems consist of any overhead materials that do not have a match with any other SWIFTS material. Most ceiling demolition materials consist of drop ceilings and other tile-like materials.

Unbulked Volume: The unbulked volume for ceiling demolition was calculated by multiplying the takeoff quantity by the assumed 3/4 inch thickness.

Weight: The ceiling demolition weight was calculated by multiplying the takeoff quantity by the assumed equivalent unit weight of 1.5 LBS/SQFT. These assumptions were based on industry and vendor data (Sweet's 1994).

3.3.3 Acid Brick

Takeoff Quantity: Acid brick takeoff units were reported in square feet (SQFT). In order to quantify the acid brick estimates, the first task done was to identify which components contained acid brick. This was accomplished by several means. Included was a review of original site drawings, process knowledge, review of the OU3 RI/FS Sampling Plan (DOE 1993b), and field verification. Hand calculations were used to determine the surface area of acid brick on a component basis.

Unbulked Volume: The unbulked volume for acid brick was calculated by multiplying the takeoff quantity by the assumed four inch thickness.

Weight: The weight for acid brick was calculated by multiplying the unbulked volume by the assumed density of 140 LBS/CUFT.

3.3.4 Concrete, Concrete Beams, Concrete Columns, Concrete Foundation, Concrete Slabs, Concrete Walls

Takeoff Quantity: Concrete takeoff units were reported in cubic yards (CUYD). Above-grade concrete includes all concrete construction which is located above the ground floor of a building, or which is located on the ground floor but extends approximately one foot or more above the ground floor. This category includes such items as concrete floor and roof slabs (with or without metal form deck) and concrete columns, solid precast concrete columns and channel slabs, hollow-core precast concrete deck slabs, concrete equipment supports, concrete shielding and containment walls, and cementitious fire protection of beams and columns. Hollow-core precast concrete deck slabs were assumed to be solid. At-grade concrete includes the first floor concrete slab. Below-grade concrete includes such items as concrete building foundations, concrete slabs not at-grade, concrete equipment bases less than one foot high, containment curbs less than one foot high, concrete footings and pedestals.

Several buildings with basements were included in the Phase Two estimates. The basement foundation floor slabs or outer walls were not included in the above-grade material quantity estimates. Interior concrete within the basement was included in the above-grade estimate. The takeoff philosophy defined above-grade components such that a contractor assigned to remove all above-grade components would leave only an empty pit for the basement.

Unbulked Volume: The unbulked volume was calculated by taking the takeoff quantity in CUYD and multiplying by 27 to obtain CUFT.

Weight: The weight was calculated by multiplying the unbulked volume by the assumed density of 150 LBS/CUFT.

3.3.5 Masonry, Masonry Walls

Takeoff Quantity: The takeoff units for masonry materials were reported in SQFT. Masonry materials were assumed to be eight inches thick and constructed of lightweight, hollow, concrete masonry units. Concrete lintel beams in masonry walls are assumed to be part of the masonry wall.

Unbulked Volume: The unbulked volume for masonry walls was calculated by multiplying the takeoff quantity area by the assumed wall thickness of eight inches.

Weight: The unit weight for masonry walls was assumed to be 55 LBS/CUFT, applied to the gross unbulked volume of the wall. Masonry properties were based on published data from the Masonry Institute of America (Armhein 1983). The unit weight includes the void space, such as the hollowed out portion within the masonry unit.

3.3.6 Doors

Takeoff Quantity: The takeoff units for doors were reported in SQFT. During Phase One, doors were reported on the basis of total projected area, as well as the total number of each component. The quantities of doors were based on a review of existing drawings and have not been field verified. During Phase Two, the quantity of doors were field verified.

The quantity of doors includes both man doors and overhead (or roll-up) doors, and the number was assumed to consist of each operable door component; thus, a double-swing man door was counted as two doors.

Unbulked Volume: The unbulked volume for doors was calculated by multiplying the takeoff area by the assumed thickness (two inches).

Weight: Doors were assumed to have an equivalent unit weight of approximately 40 LBS/CUFT. All of these assumptions were based on industry and vendor data (Sweet's 1994).

3.3.7 Ductwork

Takeoff Quantity: The takeoff units for ductwork were reported in SQFT. Ductwork area for each building was determined by multiplying each duct circumference by its respective length to obtain the total ductwork surface area. Round and rectangular sized ductwork included on the drawings were reviewed and used to determine the overall average duct shape and size for each facility. The resulting data indicated that the average shape was rectangular with an average size of 24 inches by 18 inches. To obtain linear footage of ductwork, the square footage was divided by seven (there are approximately 7 SQFT per linear foot of ductwork). Ductwork, hangers, and supports were assumed to be 16 gage steel (0.0598 inches thick) (Gaylord and Gaylord 1979).

Unbulked Volume: The ductwork unbulked volume in CUFT was determined by multiplying the thickness (0.0598 inch) by the takeoff area of ductwork.

Weight: A total weight factor of 2.75 LBS/SQFT of surface area was determined using 2.5 LBS/SQFT for the ductwork and 0.25 LBS/SQFT for the hangers and supports.

3.3.8 Material - Electrical

Phase One material quantity estimates for electrical components were determined using both drawing takeoffs and field surveys. During Phase Two, estimates for electrical components were all determined by field survey. The following assumptions and qualifications apply to the estimate of electrical component quantities:

All switchgear and large motor control centers are included in the material description field as electrical equipment.

Utility poles were entered with material and material description codes of wood. The work type and item fields were entered as Electrical Demo and Utility Poles. The takeoff quantity units were reported in CUFT, to match the units for the wood components. The unbulked volume for each utility pole was assumed to be 36.81 CUFT. The weight conversion factor for structural wood components (30 LBS/CUFT) was used for utility poles.

3.3.8.1 Conduit/Wire (2" and Less), Conduit/Wire (2-1/2" to 4"), Conduit/Wire/Cable Tray (Over 4")

Takeoff Quantities: Conduit takeoff units were reported in LNFT. The material quantity estimate data were grouped into three ranges of conduit diameter: 2 inches and less; 2-1/2 inches to 4 inches; and over 4 inches. All conduit was assumed to be rigid galvanized steel. The quantities of cable tray were added to the quantities of over 4 inch conduit.

During the Phase Two material quantity estimates, conduit was estimated for large buildings (such as 11, 14A, 15A, 28A, 28B, and 53A) because large portions of the conduit runs were hidden under floors, above ceilings, or behind walls. Buildings 28A and 28B were field surveyed in detail to provide a basis for assigning a usage number (or factor) for conduit based on the square foot area per floor in each building. A usage number for conduit was calculated for each range of conduit sizes and is shown below.

PHASE TWO CONDUIT USAGE NUMBERS

Conduit Diameter	Usage Number
2 inches and less	SQFT (building floor) x 0.360 LNFT/SQFT
2-1/2 to 4 inches	SQFT (building floor) x 0.070 LNFT/SQFT
over 4 inches	SQFT (building floor) x 0.016 LNFT/SQFT

Unbulked Volume: For each range of conduit sizes, the conduit length was multiplied by the conduit cross-sectional area (using representative conduit diameters of 1 inch, 3 inch, and 5 inch) to determine the conduit volume in CUFT. The conduit volume was then increased by 20 percent to include wire, fittings, hangers, and supports.

Weight: All conduit lengths were multiplied by the factors on the next page to calculate weights that include conduit, wire, fittings, hangers, and supports.

CONDUIT WEIGHT FACTORS

Material	LBS/LNFT		
	2 Inches or Less	2-1/2 to 4 Inches	Over 4 Inches
Conduit	1.41	7.30	13.14
Wire	0.57	4.85	13.12
Fittings	0.05	0.10	0.25
Hangers/Supports	0.20	0.50	0.67
TOTAL	2.23	12.75	27.18
Rounded Total	2.2	12.8	27.2

As shown below, conduit weights were determined using the detailed material quantity takeoff data for Building 6A. A sample of the method used to determine the weight per foot value for 2-1/2 inch to 4 inch conduit. The percent of length for each conduit size (e.g., 2-1/2 inch) in a range (e.g., 2-1/2 to 4 inches) was multiplied by that conduit's weight per foot value (e.g., 5.27 LBS/LNFT) (Means 1993). Then the weighted values were summed to determine the weight per foot for the range of conduits. The wire weight per foot was determined in a similar manner. The fitting and hanger/support weight per foot were assumed based on industry and vendor data (Sweet's 1994).

SAMPLE CALCULATION FOR DETERMINING WEIGHT PER FOOT FOR 2-1/2 INCH TO 4 INCH CONDUIT

Conduit Size	Plant 6A Conduit Length (Feet)	Percent of Total Length	Pounds/Foot (Means 1993b)	Percent Length x LBS/FT
2-1/2 inch	2170	22.75	5.27	1.20
3 inch	2975	31.18	6.83	2.13
3-1/2 inch	3405	35.69	8.31	2.97
4 inch	990	10.38	9.72	1.00
TOTAL	9540	100.00		**7.30**

3.3.8.2 Electrical Fixtures

Takeoff Quantity: Electrical fixtures takeoff units were reported in number of fixtures (each). During the Phase Two material quantity estimates, the number of lighting fixtures was estimated for large buildings (such as 11, 14A, 15A, 28A, 28B, and 53A). This approach was used because of the large number of devices involved and because there is a straight forward approach for providing lighting in occupied buildings. Buildings 28A and 28B were field surveyed in detail to provide a basis for assigning a usage number for lighting fixtures. The usage number was based on the purpose of each building and on the square foot area per floor in each building. The usage number for lighting fixtures is shown on the next page.

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PHASE TWO LIGHTING FIXTURE USAGE NUMBERS

Building	Usage Number
Laboratory building	SQFT (building floor) / 60 SQFT per fixture
Other buildings	SQFT (building floor) / 75 SQFT per fixture

Unbulked Volume: An average volume of 2.0 CUFT per fixture was assumed to calculate the unbulked volume of the electrical fixtures.

Weight: An average weight of 25 lbs per fixture was assumed to calculate the weight of electrical fixtures.

3.3.8.3 Electrical Transformers

Takeoff Quantity: During Phase One, electrical transformer takeoff units were reported in number of transformers (each). The detailed material quantity takeoff for Building 6A was used as the basis to determine a weight factor for transformers. The total weight of the transformers in Plant 6A was 5.74 tons. This weight divided by the total floor area of Building 6A (165,900 SQFT) yielded a weight factor of 0.07 LBS/SQFT. The weight factor was applied to the total floor area for each building to determine the weight of the transformers in that building. The number of transformers was calculated based on the total floor area of each building. Each transformer was assumed to be 20 CUFT and 50 LBS/CUFT.

During Phase Two, transformer takeoff units were reported in CUFT.

Unbulked Volume: During the Phase One material quantity estimates, transformers were assumed to be 20 CUFT each. During the Phase Two material quantity estimates, transformer sizes were determined by actual field measurements (same as the takeoff quantity since this estimate is in CUFT).

Weight: During Phase One, the transformer weight factor (0.07 LBS/SQFT) was applied to the total floor area for each building to determine the weight of the transformers in that building.

During Phase Two, no conversion factors were used to calculate the transformer weights. Transformer weights were determined by actual field measurements. Transformer weights were reported as listed on nameplates or assumed to be 100 LBS/CUFT. This assumption was based on data collected from the Square D Digest 168 catalog (1990). At 3 and 30kVA, 3 phase, 480/208/120V, the transformers weighed 146 LBS/CUFT and 72 LBS/CUFT, respectively. At 10kVA, single phase, 240x480-120/240V, a transformer weighed 115 LBS/CUFT.

3.3.8.4 Electrical Wiring

Takeoff Quantity: The takeoff unit for electrical wiring is reported in LNFT. All electrical wiring in SWIFTS is below-grade and consists mainly of wire in electrical ducts, lighting, phone lines, and ground wire.

Unbulked Volume: The electrical wiring length was multiplied by the cross-sectional area using a representative diameter of one inch to determine the unbulked volume in CUFT.

Weight: The weight was calculated by multiplying the unbulked volume by the assumed density of 574 LBS/CUFT. This density was assumed by using copper density (556 LBS/CUFT) plus an allowance for the wire insulation.

3.3.8.5 Feeder Cable

Takeoff Quantity: The takeoff unit for feeder cable is reported in linear feet (LNFT). All feeder cable in SWIFTS is below-grade.

Unbulked Volume: The feeder cable length was multiplied by the cross-sectional area using a representative diameter of 1.7 inch to determine the unbulked volume in CUFT.

Weight: The weight was calculated by multiplying the unbulked volume by the assumed density of 574 LBS/CUFT. This density was assumed by using copper density (556 LBS/CUFT) plus an allowance for the feeder cable insulation.

3.3.8.6 Miscellaneous Electrical Items

Takeoff Quantity: During the Phase One material quantity estimates, the electrical components included in Miscellaneous electrical items were electrical panels, safety switches, starters, circuit breakers, junction boxes, devices, and any additional items such as special panels, etc. The takeoff units were reported in number of items (each).

The detailed material quantity takeoff for Building 6A was used as the basis for determining a weight factor for miscellaneous electrical items. The total weight of the miscellaneous electrical items in Building 6A was 47.71 tons (refer to following chart). This weight divided by the total floor area of Building 6A (165,900 SQFT) yielded a weight factor of 0.58 LBS/SQFT. The weight factor was applied to the total floor area for each building to determine the weight of the miscellaneous electrical items in that building. The number of miscellaneous electrical items was calculated based on the total floor area of each building. Each miscellaneous electrical item was assumed to be 10 CUFT and 500 LBS.

WEIGHT OF MISCELLANEOUS ELECTRICAL ITEMS IN PLANT 6A

Material	Weight (Tons)
Electric Panels	5.47
Safety Switches	0.50
Starters	3.04
Circuit Breakers	0.38
Junction Boxes	1.54
Devices	4.03
Miscellaneous Items (Special Panels, etc.)	32.75
TOTAL	47.71

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During Phase Two, the material description miscellaneous electrical items was not used. Items that were included in this category under Phase One were included as electrical equipment during Phase Two.

Unbulked Volume: During the Phase One material quantity estimates, the volume of miscellaneous electrical items was assumed to be 10 CUFT each. This calculation does not apply to Phase Two.

Weight: During Phase One, the miscellaneous electrical items weight factor (0.58 LBS/SQFT) was applied to the total floor area for each building to determine the weight of the miscellaneous electrical items in that building. This calculation does not apply to Phase Two.

3.3.8.7 PVC Conduit

Takeoff Quantity: The takeoff unit for PVC Conduit is reported in LNFT. All PVC Conduit in SWIFTS is below-grade.

Unbulked Volume: The PVC Conduit length was multiplied by the cross-sectional area using a representative diameter of one inch to determine the unbulked volume in CUFT.

Weight: The weight was calculated by multiplying the unbulked volume by the assumed density of 65 LBS/CUFT.

3.3.9 Electrical Equipment, HVAC Equipment, Material Handling Equipment, Process Equipment

Phase One Equipment Quantity Assumptions and Qualifications:

A field survey of production-related equipment located within Plants 1, 2/3, 4, 5, 6, 8, 9, 10, and the Pilot Plant was conducted by the Energy & Environmental Services Corporation (EES). The final report, Plant Survey of Operable Unit 3 Process Equipment (EES 1993), documented the major equipment found within these buildings, including equipment weights and volumes. This report did not include the secondary equipment in these plants or the equipment in the miscellaneous smaller process buildings.

FERMCO's Safe Shutdown department has been continuously updating their equipment database of on-site equipment; and this information was reviewed and compared to the Plant Survey of Operable Unit 3 Process Equipment report. Also, field investigations were performed to confirm and/or supplement equipment quantity data. The following references were used to determine equipment weights and volumes for the field survey data and supplementary equipment data:

- Estimating trade publications (e.g., Richardson's, Means, etc.);
- Existing site drawings; and
- Equipment manufacturers' literature.

Plant 8 was selected for a more detailed study and field survey to determine the quantities of secondary equipment not included in the Plant Survey of Operable Unit 3 Process Equipment report. The addition of the secondary equipment increased the equipment weight and volume by approximately 20 percent, as shown on the following chart. The Plant 8 equipment data comparison was used as a basis for the assumption to increase the original equipment weight and volume totals by 20 percent for all of the main plants and ancillary buildings.

PLANT 8 EQUIPMENT DATA

Source	PLANT 8	
	Weight (Lbs)	Volume (Cuft)
Original Total (EES 1993)	1,190,200	62,150
Modified Total (Based on Field Surveys and Material Quantity Take-offs)	1,398,070	83,275
Percent Change	+17.5%	+34%
Applied Percent Change	+20%	+20%

The Plant Survey of Operable Unit 3 Process Equipment report documented the equipment in the major plants; however, the equipment location was not specifically identified as either the main building or one of the ancillary buildings. Therefore, the equipment totals were prorated to the ancillary buildings associated with each plant. The prorating was performed by multiplying the equipment weight (or volume) by the ratio of the total floor area of an ancillary building to the total floor area of the entire plant. The ancillary buildings included in each major plant are as follows.

MAJOR PLANTS AND ASSOCIATED ANCILLARY BUILDINGS

	MAJOR PLANT						
	2/3	4	5	6	8	9	Pilot
ANCILLARY BUILDINGS	2A 2B 2D 2E 2F 2G 3A 3C 3D 3E 3H 3J 3L	4A 4C	5A 5B 5C 5D 55A 55B	6A 6E 6F 6G	8A 8C	9A 9B	13A 13C 37 54A 54C

Equipment quantity data for the miscellaneous small process buildings was obtained from field surveys. Equipment weights and volumes were determined from the same references indicated above.

Phase Two Equipment Quantity Assumptions and Qualifications:

The Phase Two equipment estimates were determined by field walkdown, drawing takeoff, and comparison to the FEMP Maintenance Management Information Control System (MMICS) list. Weights

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and volumes were determined through equipment nameplate data, equipment manufacturer's literature, site drawings, or comparisons to the equipment estimates in the Operable Unit 3 Material Quantity Waste Inventory Report, Revision D.

The equipment material quantity estimates include only large stationary equipment that need more than one person to lift. Small equipment, especially lab equipment that can be carried into a room and plugged in, was not included in the equipment material quantity estimates. Office equipment, such as desks or chairs, was not included.

The electrical components included were lighting panels, 13.2kV and 480V switchgear, motor control centers, disconnect switches, motor starters, circuit breakers, junction boxes, control panels, etc. Control panels listed in the estimate backup data (PARSONS 1994b) as "pipe rack" may have included all of the above items, plus conduit, wireways, small dry type transformers, etc. All weights for Electrical Equipment were assumed to be 12 LBS/CUFT.

3.3.10 Equipment and Miscellaneous

Takeoff Quantity: The takeoff units for equipment and miscellaneous were reported in CUFT. The equipment and miscellaneous materials were estimated by the WPA, (Appendix A, Table A.7). Building 51 is the only building that contains a quantity for equipment and miscellaneous materials in SWIFTS.

The following assumptions apply to the equipment and miscellaneous materials:

1. The equipment and miscellaneous materials include a combination of materials that could be distributed to other SWIFTS materials if additional information were available. Significant contributions to the equipment and miscellaneous category include the contents of buildings (equipment).

2. Estimates for building contents assume that the volume of contents equals ten percent of the interior volume of the building.

3. Volumes of equipment and miscellaneous materials were generally estimated using dimensions taken from as-built drawings.

Unbulked Volume: The unbulked volume of equipment and miscellaneous is equivalent to the takeoff quantity.

Weight: The weight for equipment and miscellaneous was calculated by multiplying the takeoff quantity by the assumed density of 50 LBS/CUFT.

3.3.11 Basin Liners

Takeoff Quantity: The takeoff units for basin liners were reported in SQFT. The basin liners quantities mainly consist of the liners in the Storm Water Retention Basins and the Biodenitrification Surge Lagoon.

Unbulked Volume: The basin liners unbulked volume was determined by multiplying the thickness (0.031 inch) by the takeoff area.

Weight: A weight factor of 24 ounces per square yard was used to determine the weight.

3.3.12 Fabric

Takeoff Quantity: The takeoff units for fabric were reported in SQFT. The fabric quantities mainly consist of polyethylene sheeting.

Unbulked Volume: The fabric unbulked volume was determined by multiplying the thickness (0.031 inch) by the takeoff area.

Weight: A weight factor of 24 ounces per square yard was used to determine the weight.

3.3.13 Fabric Roof, Fabric Walls

Takeoff Quantity: The takeoff units for fabric roof and fabric walls were reported in SQFT. The fabric roof and fabric wall quantities mainly consist of the fabric on the Tension Support Structures.

Unbulked Volume: The fabric roof and fabric wall unbulked volume was determined by multiplying the thickness (0.031 inch) by the takeoff area.

Weight: A weight factor of 24 ounces per square yard was used to determine the weight.

3.3.14 Fire Brick

Takeoff Quantity: The takeoff units for fire brick were reported in SQFT. The fire brick estimates were based upon quantitative information presented in a WEMCO Asbestos Survey that was performed by Diagnostic Engineering Inc. (1992). Data presented in the survey were corroborated by process knowledge as a secondary check.

Unbulked Volume: The fire brick unbulked volume was determined by multiplying the takeoff area and the assumed thickness (four inches).

Weight: The weight for fire brick was calculated by multiplying the unbulked volume by the assumed density of 140 LBS/CUFT.

3.3.15 Drywall

Takeoff Quantity: Drywall takeoff units were reported in SQFT. Drywall included such items as gypsum board, drywall, and plastic sheeting materials.

Unbulked Volume: The unbulked volume of drywall was determined by multiplying the thickness (3/4 inch) by the takeoff area.

Weight: Drywall was assumed to have a unit weight of 3.3 LBS/SQFT. These assumptions are based on industry standards and vendor data.

3.3.16 Building Insulation

Takeoff Quantity: Building insulation takeoff units were reported in SQFT. Building insulation was assumed to be approximately two inches thick, either fiberglass batts or rigid insulation.

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Unbulked Volume: The unbulked volume for building insulation was calculated by multiplying the takeoff area by the insulation thickness (two inches).

Weight: Building insulation was assumed to have equivalent unit weight of 0.75 LBS/SQFT. These assumptions were based on industry and vendor data (Sweet's 1994).

3.3.17 Ductwork Insulation

Takeoff Quantity: Ductwork insulation takeoff units were reported in SQFT. One-tenth of the ductwork was assumed to be insulated. Thus, the ductwork insulation area was determined by multiplying the ductwork surface area (SQFT) by ten percent.

Unbulked Volume: The ductwork insulation unbulked volume was determined by multiplying the ductwork insulation takeoff area by the insulation thickness (one inch).

Weight: The ductwork insulation was assumed to have a unit weight of 4.5 LBS/CUFT.

3.3.18 Piping Insulation

Takeoff Quantity: Piping insulation takeoff units were reported in SQFT. Piping insulation was assumed to be one inch thick. One-fourth of the above-grade piping [Piping (2" and Less), Piping (2-1/2" to 4"), and Piping (Over 4")] was assumed to be insulated except for overhead pipe, G-004, on pipe racks. Eighty percent of the pipe on racks was assumed to be insulated. Sixty percent of the insulated pipe on the pipe racks was assumed to be steam heat traced with 2 inch and smaller pipe.

Square feet of piping insulation was calculated by multiplying 25 percent of the linear feet of above-grade piping [Piping (2" and Less), Piping (2-1/2" to 4"), and Piping (Over 4")] by the circumference of the pipe using two inches, four inches, and eight inches as the diameters respectively.

Unbulked Volume: The unbulked volume of piping insulation was calculated by multiplying the insulation thickness (one inch) by the takeoff area.

Weight: Piping insulation was assumed to be 4.5 LBS/CUFT.

3.3.19 Lead Flashing

Takeoff Quantity: Lead flashing takeoff units were reported in LBS. Lead flashing was assumed to be 1/8 inch thick.

Unbulked Volume: The unbulked volume for lead flashing was calculated by dividing the takeoff quantity by the density of lead metal (710 LBS/CUFT).

Weight: The lead flashing weight was determined by converting the takeoff quantity in pounds to tons. Lead flashing has an equivalent unit weight of 7.5 LBS/SQFT, assuming the density of lead metal to be 710 LBS/CUFT.

3.3.20 Louvers

Takeoff Quantity: Louvers takeoff units were reported in SQFT. During Phase One, the quantities of louvers were based on a review of existing drawings and were not field verified. During Phase Two, the quantities of louvers were field verified.

Unbulked Volume: The unbulked volume for louvers was calculated by multiplying the takeoff area by the assumed thickness (two inches).

Weight: Louvers were assumed to have an equivalent unit weight of approximately 40 LBS/CUFT. All of these assumptions were based on industry and vendor data (Sweet's 1994).

3.3.21 Exterior Metal Wall Panels, Interior Metal Wall Panels, Metal Panel Roof

Takeoff Quantity: Metal panel takeoff units were reported in SQFT. Metal panels were assumed to be 26 gage (0.0198 inches) painted or galvanized steel panels. Metal panel properties are based on published vendor data (American 1991, Star 1990) established by the Metal Building Manufacturers Association (MBMA 1986).

Unbulked Volume: The unbulked volume for metal panels was calculated by multiplying the takeoff area by the thickness (0.0198 inches). The unbulked volume was then increased by 35 percent to account for corrugation.

Weight: Metal panels were assumed to have an equivalent unit weight of 1.1 LBS/SQFT.

3.3.22 Miscellaneous Debris

Takeoff Quantity: Miscellaneous debris takeoff units were reported in CUFT. During Phase One, miscellaneous debris included such items as wood framing and trim, gypsum board and plastic sheeting, plumbing fixtures, abandoned furniture, etc. During Phase Two, wood and gypsum board were reported as a separate material yet the conversion factors for unbulked volume and weight remained the same.

All fencing internal to buildings will be assumed to be 1/2 inch thick and counted as miscellaneous debris.

Unbulked Volume: The unbulked volume of miscellaneous debris was equivalent to the takeoff quantity.

Weight: Miscellaneous debris was assumed to have an equivalent unit weight of approximately 30 LBS/CUFT. The unit weight of miscellaneous debris is based on the approximate capacity of a disposal Sea/Land container. Wood debris was assumed to have a unit weight of 30 LBS/CUFT. Gypsum board was assumed to be 3/4 inch thick, with a unit weight of 3.3 LBS/SQFT. These assumptions are based on industry standards and vendor data.

3.3.23 Personal Protective Equipment

Takeoff Quantity: The takeoff units for PPE were reported in CUFT. This quantity was determined by estimating the Dismantling and Decontamination (D&D) duration in days from the CRU3 estimating group. This duration is based on working ten hour shifts, using a 24 person crew. Each person was assumed to change out 4 times per day and 150 sets of PPE can be packed into a 55 gallon drum (7.41 CUFT). An example of the PPE estimate for the Boiler Plant (10A) is as follows:

D&D duration for 10A = 120 days

PPE = (120 days)(24 person crew)(4 PPE sets per person per day)(7.41 CUFT per 55 gallon drum)/(150 PPE sets per 55-gallon drum)

PPE = (120)(24)(4)(7.41)/(150) = 569.09 CUFT of PPE used during D&D of 10A

Unbulked Volume: The unbulked volume of PPE is equivalent to the takeoff quantity.

Weight: The weight for PPE was calculated by multiplying the takeoff quantity by the assumed density of 3.024 LBS/CUFT.

3.3.24 Clay Piping

Takeoff Quantity: Clay piping takeoff units were reported in LNFT. All clay piping estimates in SWIFTS are below-grade.

Unbulked Volume: The unbulked volume was determined by multiplying the clay pipe length by the clay pipe cross-sectional area not including the void space (hollow space) inside the clay pipe. An average inner diameter of ten inches for clay piping was used. The thickness of the clay pipe was assumed to be 3/4 inch. The following equation demonstrates how the unbulked volume was calculated: $\pi L(r^2_{out} - r^2_{in})$=(X LNFT of clay pipe)(Pi){[(10.75/2 IN)(1 FT/12 IN)]^2-[(10/2 in)(1 FT/12 IN)]^2}

Weight: The weight for clay piping was calculated by multiplying the unbulked volume by the assumed density of 140 LBS/CUFT.

3.3.25 Piping (2" and Less), Piping (2-1/2" to 4"), Piping (Over 4")

Takeoff Quantity: Piping takeoff units were reported in LNFT. The material quantity estimate data was grouped into three ranges of pipe diameter: 2 inches and less; 2-1/2 inches to 4 inches; and over 4 inches. All piping was assumed to be Schedule 40 steel.

Unbulked Volume: For each range of pipe sizes, the pipe length was multiplied by the pipe cross-sectional area (using representative pipe diameters of 2 inches, 4 inches, and 8 inches) to determine the pipe volume in CUFT. The pipe volume was then increased by 20 percent to include valves, fittings, and supports.

Weight: All piping lengths were multiplied by the factors shown on the following chart to calculate weights that included pipe, valves, fittings, and supports. The pipe weights were taken from the Control Valve Handbook (Fisher 1977). Fittings/supports and valve weights were based on catalog data obtained from Bonney Forge, Crane, Grinnel, and Tube Turns.

PIPE WEIGHT FACTORS

Material	Pounds/Foot (LBS/FT)		
	2 Inches or Less	2-1/2 to 4 Inches	Over 4 Inches
Pipe	3.65	10.79	28.6
Fittings/Supports	1.42	1.96	5.32
Valves	0.81	2.20	3.03
TOTAL	5.88	14.95	36.95
Rounded Total	5.9	15.0	37.0

3.3.26 PVC Piping

Takeoff Quantity: PVC piping takeoff units were reported in LNFT. All PVC piping estimates in SWIFTS are below-grade.

Unbulked Volume: The unbulked volume was determined by multiplying the PVC pipe length by the cross-sectional area using a representative diameter of 4 inches.

Weight: Assuming an average pipe diameter of 4 inches, an average thickness of the PVC to be 1/4 inch, and the density of PVC materials to be 65 LBS/CUFT, a factor of 0.75 LBS/LNFT was calculated to determine the weight.

3.3.27 Roofing (Built Up)

Takeoff Quantity: Roofing (Built Up) takeoff units were reported in SQFT. Roofing (Built Up) was assumed to be a 4-ply felt and gravel on two inch thick rigid insulation over 1-1/2 inch, 22 gage (0.0295 inches) metal roof deck. (The metal decking was classified as miscellaneous steel, and the rigid insulation was classified as building insulation, as described above.) Roofing (Built Up), with gravel, was assumed to be approximately one inch thick, with an equivalent unit weight of 6 LBS/SQFT. These assumptions were based on industry and vendor data (Sweet's 1994).

Unbulked Volume: The unbulked volume for roofing (built up) was calculated by multiplying the takeoff area by the roof thickness (one inch).

Weight: The equivalent unit weight for roofing (built up), with gravel, was assumed to be 6 LBS/SQFT. All of these assumptions were based on industry and vendor data (Sweet's 1994).

3.3.28 Structural and Miscellaneous Steel

Takeoff Quantity: Structural and miscellaneous steel takeoff units were reported in tons. This material description includes all structural steel framing, floor plate and grating, bar joists and other fabricated steel components, stair framing and handrail, miscellaneous angle bracing and pipe supports, crane and equipment supports, metal roof deck (such as beneath built-up roofing), and light gauge metal framing (such as for interior partition walls). This material description also includes all steel building components not specifically quantified in other metal system categories.

The material takeoff method for structural and miscellaneous steel components was performed by quantifying member weights (tonnage) from existing site drawings, where available. In general, material quantities were obtained directly by multiplying member linear weight by the total member length (or area weight by total area).

When drawings were unavailable or incomplete for structural and miscellaneous steel, factors were utilized based on the building area. For example, contemporary pre-fabricated metal buildings and tension support structures were assumed to have a structural steel framework weight equivalent to 5 LBS/SQFT of floor area, based on published vendor product data (American 1991, Star 1990, and Rubb 1989). For older steel buildings with incomplete drawing information, the steel components were assumed to be equivalent to other steel buildings of similar size and construction, and approximate member sizes were estimated based on factors applied to the building area. For additional platforms and floor areas which were discovered in field surveys, and for which drawing information was not available, approximate member sizes were estimated based on similar factors for adjacent construction.

Unbulked Volume: Unbulked volume was calculated using unit weight factors. Unit weights for various structural and miscellaneous steel types are shown below.

STRUCTURAL AND MISCELLANEOUS STEEL UNIT WEIGHTS

Item	Unit Weight	Item Size	Reference
Solid Structural Steel Members	490 LBS/CUFT	No void or shape factors were applied to account for packing or stacking volumes.	AISC 1989 SJI 1979 SDI 1981 NAAMM
Metal Roof Decking	1.7 LBS/SQFT	22 gage (0.0295 inches)	Vulcraft 1983
Light gauge metal framing	1.0 LBS/SQFT (applied to the net wall area)	6 inches by 18 gage (0.0478 inches) metal studs at 16 inch spacing	Inryco 1984
Grating	7 LBS/SQFT	3/16-inch by 1-inch steel bar grating	Blaw-Knox 1975
Drywall studs	0.5 LBS/SQFT (applied to the net wall area)	4 inches by 20 gage (0.0359 inches) metal studs at 16 inch spacing	Inryco 1984

Weight: Unit weights for steel components (e.g., columns, beams, joists, trusses, plates, decking, grating, etc.) were referenced from the American Institute of Steel Construction (AISC) Manual of Steel Construction (AISC 1989), and from standard weight tables of the Steel Joist Institute (SJI 1979), the Steel Deck Institute (SDI 1981), and the National Association of Architectural Metal Manufacturers (NAAMM). Wherever possible, this data was correlated to appropriate sources available at the time of original construction.

3.3.29 Floor Tile

Takeoff Quantity: Floor tile takeoff units were reported in SQFT. The floor tile estimates were primarily based upon quantitative information presented in a WEMCO Asbestos Survey that was performed by Diagnostic Engineering Inc. (1992). Data presented in the survey were corroborated by process knowledge as a secondary check.

Unbulked Volume: The floor tile unbulked volume was determined by multiplying the takeoff area by the assumed overall thickness (0.25 inch). Note that the floor tile estimates also include the mastic (i.e., adhesive) material.

Weight: A weight factor of 2 LBS/SQFT was used to determine the weight.

3.3.30 Non Process Trailers, Process Trailers

Takeoff Quantity: Trailer takeoff units were reported in CUFT. Lump sum volume and weight quantities were developed for a typical trailer. Trailers were assumed to be 52 feet by 12 feet (Becker 1994). Individual material component descriptions, such as conduit, piping, ductwork, or steel, were not applied to trailers. Complexes of multiple trailers were counted as a whole number multiple of a 52 foot by 12 foot trailer (i.e., a double wide is counted as two trailers).

The number of trailers on site was field verified on October 12, 1994. The number of trailers on the site as of that date was assumed to be the number of trailers included in G-006, Process Trailers, and G-007, Non-Process Trailers.

Unbulked Volume: Trailers were assumed to be 52 feet by 12 feet by 10 feet. The unbulked volume for one trailer was assumed to be 30% of the entire trailer volume [(52ft x 12ft x 10)(.3) = 1872 CUFT].

Weight: Trailers had an assumed weight of 5.5 tons (Becker 1994).

3.3.31 Exterior Transite Panels, Interior Transite Panels, Transite Roof

Takeoff Quantity: Transite takeoff units were reported in SQFT.

Unbulked Volume: The unbulked volume for transite was calculated by multiplying the takeoff area by the thickness. Exterior transite panels and transite roof were assumed to be corrugated and approximately 7/16 inch thick. Interior transite panels were assumed to be flat and 1/4 inch thick. Transite properties are based on FEMP site studies for removal of exterior and interior transite (Herrick 1992).

Weight: Exterior transite panels and transite roof were assumed to have an equivalent unit weight of 4.1 LBS/SQFT, applied to the net roof or wall area. Interior transite panels were assumed to have a unit weight of 2.3 LBS/SQFT, applied to the net roof or wall area. Transite had an assumed density of 110 LBS/CUFT.

3.3.32 Windows

Takeoff Quantity: During Phase One, windows were reported on the basis of total projected area, as well as the total number of each component. The quantities of windows were based on a review of existing drawings and were not field verified. During Phase Two, the quantities of windows were field verified.

The quantity of windows includes only units with glass (i.e., excludes translucent panels), and the number was assumed to be each individually framed component. Thus, a window frame with a dividing mullion was counted as two windows.

Unbulked Volume: The unbulked volume windows was calculated by multiplying the takeoff area by the assumed thickness (two inches).

Weight: Windows were assumed to have an equivalent unit weight of approximately 40 LBS/CUFT. All of these assumptions were based on industry and vendor data (Sweet's 1994).

3.3.33 Wood

Takeoff Quantity: Wood takeoff units were reported in CUFT.

Unbulked Volume: The unbulked volume of wood is equivalent to the takeoff quantity.

Weight: The weight for wood was calculated by multiplying the takeoff quantity by the assumed density of 30 LBS/CUFT.

3.4 CONVERSION AND BULKING FACTORS

Table 3-5, SWIFTS Unbulked Volume Conversion Factors, contains the appropriate factors used to convert a takeoff quantity for a certain material to an unbulked volume. The takeoff quantity contains the amount of material inventoried for one record. For example, the takeoff quantity for the material tile was measured in square feet. In order to determine an unbulked volume, a conversion factor was assumed (in this case the thickness of the tile). All unbulked volumes in the forecasting module of SWIFTS are in units of cubic feet.

Table 3-6, SWIFTS Weight Conversion Factors, contains the appropriate factors used to convert a takeoff quantity for a certain material to a weight. Weight conversion factors were calculated by selecting an assumed unit weight for most materials. All weights in the forecasting module of SWIFTS are in units of tons.

Table 3-7, Summary of OU3 SWIFTS Material Bulking Factors, contains the bulking factors for each material/material description in SWIFTS. The bulked volume is calculated by multiplying the unbulked volume by the appropriate bulking factor. All bulked volumes in the forecasting module of SWIFTS are in units of cubic feet. The bulking factors were determined based on several considerations that were researched during the development of the OU3 PP/EA for Interim Remedial Action and further refined during the current development of the OU3 RI/FS Report. These bulking factors are still being evaluated for the OU3 RI/FS Report and may be subject to change; however, the most current values are presented here. The primary considerations included in determining bulking factors are data from material containerization during Removal Action No. 19 (Plant 7 Dismantling), ongoing waste management at the FEMP, and data from construction industry standards for materials without current bulking data.

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TABLE 3-1 COMPONENT ESTIMATE PHASE

COMPONENTS QUANTIFIED DURING **PHASE ONE**

	COMPONENT	COMPONENT DESCRIPTION		COMPONENT	COMPONENT DESCRIPTION
1.	10A	BOILER PLANT	65.	45B	UTILITY SHED EAST OF RUST TRAILERS
2.	10B	BOILER PLANT MAINTENANCE BUILDING	66.	46	HEAVY EQUIPMENT BUILDING
3.	10E	UTILITIES HEAVY EQUIPMENT BUILDING	67.	4A	GREEN SALT PLANT
4.	12A	MAIN MAINTENANCE BUILDING	68.	4B	PLANT 4 WAREHOUSE
5.	12B	CYLINDER STORAGE BUILDING	69.	4C	PLANT 4 MAINTENANCE BUILDING
6.	12C	LUMBER STORAGE BUILDING	70.	54A	SIX TO FOUR REDUCTION FACILITY #1
7.	12D	MAINTENANCE BUILDING WAREHOUSE	71.	54B	PILOT PLANT SHELTER
8.	13A	PILOT PLANT WET SIDE	72.	54C	PILOT PLANT DISSOCIATOR SHELTER
9.	13B	PILOT PLANT MAINTENANCE BUILDING	73.	55A	SLAG RECYCLING BUILDING
10.	13C	SUMP PUMP HOUSE	74.	55B	SLAG RECYCLING PIT/ELEVATOR
11.	13D	PILOT PLANT THORIUM TANK FARM	75.	56A	CP STORAGE WAREHOUSE
12.	18B	GENERAL SUMP	76.	56B	STORAGE SHED (WEST)
13.	18D	BIODENITRIFICATION TOWERS	77.	56C	STORAGE SHED (EAST)
14.	18H	BDN EFFLUENT TREATMENT FACILITY	78.	5A	METALS PRODUCTION PLANT
15.	18J	METHANOL TANK	79.	5B	PLANT 5 INGOT PICKLING
16.	18K	LOW NITRATE TANK	80.	5C	PLANT 5 ELECTRICAL SUBSTATION
17.	18L	HIGH NITRATE TANK	81.	5D	WEST DERBY BREAKOUT/ SLAG MILLING
18.	18M	HIGH NITRATE STORAGE TANK	82.	5E	PLANT 5 FILTER BUILDING
19.	19A	MAIN TANK FARM	83.	5F	PLANT 5 COVERED STORAGE PAD
20.	19B	PILOT PLANT AMMONIA TANK FARM	84.	5G	PLANT 5 INGOT STORAGE SHELTER
21.	19C	TANK FARM CONTROL HOUSE	85.	60	QUONSET HUT #1
22.	19D	OLD NORTH TANK FARM	86.	61	QUONSET HUT #2
23.	19E	TANK FARM LIME SLITTER BUILDING	87.	62	QUONSET HUT #3
24.	1A	PREPARATION PLANT	88.	63	KC-2 WAREHOUSE
25.	1B	PLANT 1 STORAGE SHELTER	89.	64	THORIUM WAREHOUSE
26.	20A	PUMP STATION AND POWER CENTER	90.	65	(OLD) PLANT 5 WAREHOUSE
27.	20B	WATER PLANT	91.	66	DRUM RECONDITIONING BUILDING
28.	20C	COOLING TOWERS	92.	67	PLANT 1 THORIUM WAREHOUSE
29.	20H	PROCESS WATER STORAGE TANK	93.	68	PILOT PLANT WAREHOUSE
30.	22C	TRUCK SCALE	94.	69	DECONTAMINATION BUILDING
31.	22D	SCALE HOUSE AND WEIGH SCALE	95.	6A	METALS FABRICATION PLANT
32.	24A	RAILROAD SCALE HOUSE	96.	6B	PLANT 6 COVERED STORAGE AREA
33.	24B	RAILROAD ENGINE HOUSE	97.	6C	PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)
34.	28C	GUARD POST ON SOUTH END OF 'D' STREET	98.	6D	PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)
35.	28D	GUARD POST ON WEST END OF 2ND STREET	99.	6E	PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)
36.	2A	ORE REFINERY PLANT	100.	6F	PLANT 6 SALT OIL HEAT TREAT BUILDING
37.	2B	GENERAL/REFINERY SUMP CONTROL BUILDING	101.	6G	PLANT 6 SUMP BUILDING
38.	2C	BULK LIME HANDLING BUILDING	102.	71	GENERAL IN-PROCESS WAREHOUSE
39.	2D	METAL DISSOLVER BUILDING	103.	72	DRUM STORAGE BUILDING
40.	2E	NFS STORAGE AND PUMP HOUSE	104.	77	FINISHED PRODUCTS WAREHOUSE(4A)
41.	2F	COLD SIDE ORE CONVEYOR	105.	78	D & D BUILDING
42.	2G	HOT SIDE ORE CONVEYOR	106.	79	PLANT 6 WAREHOUSE
43.	30A	CHEMICAL WAREHOUSE	107.	80	PLANT 8 WAREHOUSE
44.	30B	DRUM STORAGE WAREHOUSE	108.	81	PLANT 9 WAREHOUSE
45.	31A	ENGINE HOUSE/GARAGE	109.	82	RECEIVING/INCOMING MATERIALS INSPECTION
46.	32A	MAGNESIUM STORAGE BUILDING	110.	8A	RECOVERY PLANT
47.	32B	BUILDING 32 COVERED LOADING DOCK	111.	8B	PLANT 8 MAINTENANCE BUILDING
48.	37	PILOT PLANT ANNEX	112.	8C	ROTARY KILN/DRUM RECONDITIONING
49.	38A	PROPANE STORAGE	113.	8D	PLANT 8 RAILROAD FILTER BUILDING
50.	38B	CYLINDER FILLING STATION	114.	8E	DRUM CONVEYOR SHELTER
51.	39A	INCINERATOR BUILDING	115.	8F	PLANT 8 OLD DRUM WASHER
52.	39B	WASTE OIL DECANT SHELTER	116.	9A	SPECIAL PRODUCTS PLANT
53.	39C	INCINERATOR SPRINKLER RISER HOUSE	117.	9B	PLANT 9 SUMP TREATMENT FACILITY
54.	3A	MAINTENANCE BUILDING	118.	9C	PLANT 9 DUST COLLECTOR
55.	3B	OZONE BUILDING	119.	9D	PLANT 9 SUBSTATION
56.	3C	NAR CONTROL HOUSE	120.	9E	PLANT 9 CYLINDER SHED
57.	3D	NAR TOWERS	121.	9F	ELECTROSTATIC PRECIPITATOR
58.	3E	HOT RAFFINATE BUILDING	122.	TS-001	TENSION SUPPORT STRUCTURE #1
59.	3F	HARSHAW DIGESTION FUME RECOVERY	123.	TS-002	TENSION SUPPORT STRUCTURE #2
60.	3G	REFRIGERATION BUILDING	124.	TS-003	TENSION SUPPORT STRUCTURE #3
61.	3H	REFINERY SUMP	125.	TS-004	TENSION SUPPORT STRUCTURE #4
62.	3J	COMBINED RAFFINATE TANKS	126.	TS-005	TENSION SUPPORT STRUCTURE #5
63.	3L	ELECTRICAL POWER CENTER BUILDING	127.	TS-006	TENSION SUPPORT STRUCTURE #6
64.	45A	RUST ENGINEERING BUILDING			

COMPONENTS QUANTIFIED DURING **PHASE TWO**

	COMPONENT	COMPONENT DESCRIPTION		COMPONENT	COMPONENT DESCRIPTION
1.	10C	WET SALT STORAGE BIN	31.	25D	U.V. DISINFECTION BUILDING
2.	11	SERVICE BUILDING	32.	25E	DIGESTER AND CONTROL BUILDING
3.	14A	ADMINISTRATION BUILDING	33.	25F	SLUDGE DRYING BEDS
4.	14B	BUILDING 14 EOC GENERATOR SET	34.	25G	PRIMARY SETTLING BASINS
5.	15A	LABORATORY	35.	25H	TRICKLING FILTERS
6.	15B	LABORATORY CHEMICAL STORAGE BUILDING	36.	25J	10-PLEX SEWAGE LIFT STATION
7.	16A	MAIN ELECTRICAL STATION	37.	26A	PUMP HOUSE-HP FIRE PROTECTION
8.	16B	ELECTRICAL SUBSTATION	38.	26B	ELEVATED WATER STORAGE TANK
9.	16C	ELECTRICAL PANELS AND TRANSFORMER	39.	26C	MAIN ELECTRICAL STRAINER HOUSE
10.	16D	MAIN ELECTRICAL SWITCH HOUSE	40.	28A	SECURITY BUILDING
11.	16E	MAIN ELECTRICAL TRANSFORMERS	41.	28B	HUMAN RESOURCES BUILDING
12.	16F	TRAILER SUBSTATION #1	42.	28E	GUARD POST EAST OF T-81
13.	16G	TRAILER SUBSTATION #2	43.	28F	SKEET RANGE BUILDING
14.	16H	10-PLEX NORTH SUBSTATION	44.	28G	GUARD POST SOUTH OF BUILDING 51
15.	16J	10-PLEX SOUTH SUBSTATION	45.	30C	OLD TEN TON SCALE
16.	18A	BDN SURGE LAGOON	46.	31B	OLD TRUCK SCALE
17.	18E	STORM WATER RETENTION BASIN	47.	39D	SEWAGE TREATMENT PLANT INCINERATOR
18.	18G	CLEARWELL PUMP HOUSE	48.	3K	OLD COOLING WATER TOWER
19.	18P	DISSOLVED OXYGEN BUILDING	49.	53A	HEALTH AND SAFETY BUILDING
20.	18Q	IAWWT VALVE HOUSE	50.	53B	IN-VIVO BUILDING
21.	20D	ELEVATED POTABLE STORAGE TANK	51.	88	CLEARWELL LINE
22.	20E	WELL HOUSE #1	52.	G-001	RAILROAD TRACKS
23.	20F	WELL HOUSE #2	53.	G-002	ROADS
24.	20G	WELL HOUSE #3	54.	G-003	STORM SEWER SYSTEM
25.	22A	GAS METER BUILDING	55.	G-004	UTILITY LINES
26.	22B	STORM SEWER LIFT STATION	56.	G-005	UNDERGROUND STORAGE TANKS
27.	23	METEOROLOGICAL TOWER	57.	G-006	PROCESS TRAILERS
28.	25A	CHLORINATION BUILDING	58.	G-007	NON-PROCESS TRAILERS
29.	25B	M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	59.	G-008	PIPE BRIDGES
30.	25C	SEWAGE LIFT STATION BUILDING			

TABLE 3-2 OU3 RD/RA MATERIAL CATEGORIES September 1995

OU3 RD/RA CATEGORY	CATEGORY DEFINITION
A	Non-Regulated/Non-Friable Asbestos-Containing Materials (ACM) (includes floor tile, fire brick, gasket material, and feeder cable)
B	Construction Debris (includes general refuse, ceiling material, built-up roofing/substrate, doors, windows, HEPA filters, and wood)
C	Compactible Waste (includes PPE and fiberglass insulation)
D	Transite (includes wall panels and roof panels)
E	Residues, Hold-Up Material, and Sludges
F	Masonry, Concrete, Asphalt
G	Acid Brick
H	Specialty Metals (includes nickel, copper, inconel, monel, stainless, and lead flashing)
I	Restricted Use Metals (includes equipment, roll-up/overhead doors, miscellaneous electrical components, metal wall panels, metal roof panels, louvers, and insulated wire with conduit)
J	Process Piping
K	Non-Process Piping
L	Ductwork
M	Furnaces and Dissociators
N	Unrestricted Use Metals (includes structural steel and decking)
P	Regulated/Friable ACM (thermal system insulation)
Q	Decontamination Wash Waters
R	Soils

TABLE 3-3 OU3 RI/FS MATERIAL CATEGORIES AND MATERIAL DESCRIPTIONS

September 1995

A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Miscellaneous Materials	J [1] Product, Residues & Special Mat'l's
Structural and Misc. Steel	Doors	Electrical Equipment	Ductwork	Asphalt	Acid Brick	Ceiling Demo.	Ductwork Insulation	PVC Conduit	Coal Pile
	Conduit/Wire (2" & Less)	Equipment and Miscellaneous	Lead Flashing	Concrete		Feeder Cable	Piping Insulation	Basin Liners	Gravel Pile
	Conduit/Wire (2-1/2" to 4")	HVAC Equipment	Louvers	Concrete Beams		Fire Brick	PPE	Fabric	Hazardous/ Mixed Waste
	Conduit/Wire/Cable Tray (Over 4")	Material Handling Equipment	Exterior Metal Wall Panels	Concrete Columns		Floor Tile	Copper Scrap Metal Pile	Fabric Roof	Low Level Waste
	Electrical Fixtures	Process Equipment	Interior Metal Wall Panels	Concrete Foundation		Ext. Transite Panels		Fabric Walls	Marketable Nuclear Material
	Electrical Wiring	Piping (2" and Less)	Metal Panel Roof	Concrete Slabs		Int. Transite Panels		Drywall	Outside Equipment Storage Area
	Miscellaneous Electrical Items	Piping (2-1/2" to 4")		Concrete Walls		Transite Roof		Building Insulation	Rock Salt Pile
	Electrical Equipment	Piping (Over 4")		Masonry				Miscellaneous Debris	Sand Piles
	Equipment and Miscellaneous			Masonry Walls				PPE	Soil Piles
	HVAC Equipment			Clay Piping				PVC Piping	Thorium Inventory
	Mat'l Handling Equip.							Roofing, Built-up	Scrap Metal Pile
	Process Equipment							Process Trailers	
	Electrical Transformers							Non-Process Trailers	
	Piping (2" and Less)							Windows	
	Piping (2-1/2" to 4")							Wood	
	Piping (Over 4")								

NOTES: (1) Category J methodology discussed in Section 3.1.3 and Appendix D.

TABLE 3-4 OU3 RI/FS AND RD/RA MATERIAL SPLITS AND CROSSWALK

September 1995

MATERIAL	MATERIAL DESCRIPTION	RI/FS CATEGORY	RD/RA CATEGORY	%
ASPHALT	ASPHALT	E	F	100
CEILING DEMOLITION	CEILING DEMOLITION	G	B	100
CONCRETE	ACID BRICK	F	G	100
CONCRETE	CONCRETE	E	F	100
CONCRETE	CONCRETE BEAMS	E	F	100
CONCRETE	CONCRETE COLUMNS	E	F	100
CONCRETE	CONCRETE FOUNDATION	E	F	100
CONCRETE	CONCRETE SLABS	E	F	100
CONCRETE	CONCRETE WALLS	E	F	100
CONCRETE	MASONRY	E	F	100
CONCRETE	MASONRY WALLS	E	F	100
DOORS	DOORS	B	B	100
DUCTWORK	DUCTWORK	D	L	100
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	B	I	100
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	B	I	100
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	B	I	100
ELECTRICAL	ELECTRICAL FIXTURES	B	I	100
ELECTRICAL	ELECTRICAL TRANSFORMERS	B	B	100
ELECTRICAL	ELECTRICAL WIRING	B	I	100
ELECTRICAL	FEEDER CABLE	G	A	100
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	B	I	100
ELECTRICAL	PVC CONDUIT	I	B	100
EQUIPMENT	ELECTRICAL EQUIPMENT	B	I	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	I	90
		C	I	10
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	B	I	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	I	90
		C	I	10
EQUIPMENT	HVAC EQUIPMENT	B	I	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	I	90
		C	I	10
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	B	I	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	I	90
		C	I	10
EQUIPMENT	PROCESS EQUIPMENT	B	I	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	I	90
		C	I	10
FABRIC	BASIN LINERS	I	B	100
FABRIC	FABRIC	I	B	100
FABRIC	FABRIC ROOF	I	B	100
FABRIC	FABRIC WALLS	I	B	100

TABLE 3-4 OU3 RI/FS AND RD/RA MATERIAL SPLITS AND CROSSWALK

September 1995

MATERIAL	MATERIAL DESCRIPTION	RI/FS CATEGORY	RD/RA CATEGORY	%
FIRE BRICK	FIRE BRICK	G	A	100
GYPSUM BOARD	DRYWALL	I	B	100
INSULATION	BUILDING INSULATION	I	C	100
INSULATION	DUCTWORK INSULATION	H	P	100
INSULATION	PIPING INSULATION	H	P	100
LEAD FLASHING	LEAD FLASHING	D	H	100
LOUVERS	LOUVERS	D	I	100
METAL PANELS	EXTERIOR METAL WALL PANELS	D	I	100
METAL PANELS	INTERIOR METAL WALL PANELS	D	I	100
METAL PANELS	METAL PANEL ROOF	D	I	100
MISCELLANEOUS	MISCELLANEOUS DEBRIS	I	B	100
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	H	P	16
		I	C	84
PIPING	CLAY PIPING	E	F	100
PIPING	PIPING (2" AND LESS)	B	K	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	K	90
		C	J	10
* THE FOLLOWING EXCEPTIONS APPLY FOR BELOW-GRADE PIPING (2" AND LESS):				
WORK TYPE =	CONTAMINATED SEWER DEMO	C	J	100
WORK TYPE =	COOLING WATER RETURN DEMO	C	J	100
WORK TYPE =	COOLING WATER SUPPLY DEMO	C	J	100
WORK TYPE =	COOLING WATER PIPING DEMO	C	J	100
WORK TYPE =	FILTRATE OR EFFLUENT DEMO	C	J	100
WORK TYPE =	SUMP LIQUOR DEMO	C	J	100
ALL OTHER WORK TYPES		B	K	100
** THE FOLLOWING EXCEPTIONS APPLY FOR SOURCE CODE G-004 (UTILITY LINES):				
WORK TYPE =	CONTAMINATED SEWER DEMO	C	J	100
ALL OTHER WORK TYPES		B	K	100
PIPING	PIPING (2-1/2" TO 4")	B	K	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	K	90
		C	J	10
* THE FOLLOWING EXCEPTIONS APPLY FOR BELOW-GRADE PIPING (2-1/2" TO 4"):				
WORK TYPE =	CONTAMINATED SEWER DEMO	C	J	100
WORK TYPE =	COOLING WATER RETURN DEMO	C	J	100
WORK TYPE =	COOLING WATER SUPPLY DEMO	C	J	100
WORK TYPE =	COOLING WATER PIPING DEMO	C	J	100
WORK TYPE =	FILTRATE OR EFFLUENT DEMO	C	J	100
WORK TYPE =	SUMP LIQUOR DEMO	C	J	100
ALL OTHER WORK TYPES		B	K	100
** THE FOLLOWING EXCEPTIONS APPLY FOR SOURCE CODE G-004 (UTILITY LINES):				
WORK TYPE =	CONTAMINATED SEWER DEMO	C	J	100
WORK TYPE =	COOLING WATER PIPING DEMO	C	J	100
ALL OTHER WORK TYPES		B	K	100

TABLE 3-4 OU3 RI/FS AND RD/RA MATERIAL SPLITS AND CROSSWALK

September 1995

MATERIAL	MATERIAL DESCRIPTION	RI/FS CATEGORY	RD/RA CATEGORY	%
PIPING	PIPING (OVER 4")	B	K	100
FOR COMPONENT CATEGORIES 3 AND 4, SPLITS WERE APPLIED AS FOLLOWS:				
		B	K	90
		C	J	10
* THE FOLLOWING EXCEPTIONS APPLY FOR BELOW-GRADE PIPING (OVER 4"):				
WORK TYPE =	CONTAMINATED SEWER DEMO	C	J	100
WORK TYPE =	COOLING WATER RETURN DEMO	C	J	100
WORK TYPE =	COOLING WATER SUPPLY DEMO	C	J	100
WORK TYPE =	COOLING WATER PIPING DEMO	C	J	100
WORK TYPE =	FILTRATE OR EFFLUENT DEMO	C	J	100
WORK TYPE =	SUMP LIQUOR DEMO	C	J	100
ALL OTHER WORK TYPES		B	K	100
PIPING	PVC PIPING	I	B	100
ROOFING (BUILT UP)	ROOFING (BUILT UP)	I	B	100
STEEL	STRUCTURAL AND MISC. STEEL	A	N	100
TILE	FLOOR TILE	G	A	100
TRAILERS	NON PROCESS TRAILERS	I	B	100
TRAILERS	PROCESS TRAILERS	I	B	100
TRANSITE	EXTERIOR TRANSITE PANELS	G	D	100
TRANSITE	INTERIOR TRANSITE PANELS	G	D	100
TRANSITE	TRANSITE ROOF	G	D	100
WINDOWS	WINDOWS	I	B	100
WOOD	WOOD	I	B	100

TABLE 3-5 SWIFTS UNBULKED VOLUME CONVERSION FACTORS

September 1995

MATERIAL	MATERIAL DESCRIPTION	TAKEOFF QUANTITY UNIT	UNBULKED VOLUME CONVERSION FACTOR TO CUFT		
ASPHALT	ASPHALT	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CEILING DEMOLITION	CEILING DEMOLITION	SQFT	(X SQFT)(3/4 IN THICKNESS)(1 FT/12 IN)	=	0.0625
CONCRETE	ACID BRICK	SQFT	(X SQFT)(4 INCH THICKNESS)(1 FT/12 IN)	=	0.3333333333
CONCRETE	CONCRETE	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	CONCRETE BEAMS	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	CONCRETE COLUMNS	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	CONCRETE FOUNDATION	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	CONCRETE SLABS	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	CONCRETE WALLS	CUYD	(X CUYD)(27 CUFT/1 CUYD)	=	27
CONCRETE	MASONRY	SQFT	(X SQFT)(8 IN THICKNESS)(1 FT/12 IN)	=	0.6666666667
CONCRETE	MASONRY WALLS	SQFT	(X SQFT)(8 IN THICKNESS)(1 FT/12 IN)	=	0.6666666667
DOORS	DOORS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)	=	0.1666666667
DUCTWORK	DUCTWORK	SQFT	(X SQFT)(.0598 IN THICKNESS)(1 FT/12 IN)	=	0.0049833333
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	LNFT	(X LNFT)(Pi)[(1/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.0065449792
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	LNFT	(X LNFT)(Pi)[(3/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.0589048125
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	LNFT	(X LNFT)(Pi)[(5/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.1636244792
ELECTRICAL	ELECTRICAL FIXTURES	EACH	(X EACH)(2 CUFT/1 EACH)	=	2
ELECTRICAL	ELECTRICAL TRANSFORMERS	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
ELECTRICAL	ELECTRICAL TRANSFORMERS	EACH	(X EACH)(20 CUFT/1 EACH)	=	20
ELECTRICAL	ELECTRICAL WIRING	LNFT	(X LNFT)(Pi)[(1/2 IN)(1 FT/12 IN)]^2	=	0.0054541493
ELECTRICAL	FEEDER CABLE	LNFT	(X LNFT)(Pi)[(1.7/2 IN)(1 FT/12 IN)]^2	=	0.0157624915
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	EACH	(X EACH)(10 CUFT/1 EACH)	=	10
ELECTRICAL	PVC CONDUIT	LNFT	(X LNFT)(Pi)[(1/2 IN)(1 FT/12 IN)]^2	=	0.0054541493
EQUIPMENT	ELECTRICAL EQUIPMENT	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
EQUIPMENT	HVAC EQUIPMENT	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
EQUIPMENT	PROCESS EQUIPMENT	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
FABRIC	BASIN LINERS	SQFT	(X SQFT)(0.031 IN THICKNESS)(1 FT/12 IN)	=	0.0025833333
FABRIC	FABRIC	SQFT	(X SQFT)(0.031 IN THICKNESS)(1 FT/12 IN)	=	0.0025833333
FABRIC	FABRIC ROOF	SQFT	(X SQFT)(0.031 IN THICKNESS)(1 FT/12 IN)	=	0.0025833333
FABRIC	FABRIC WALLS	SQFT	(X SQFT)(0.031 IN THICKNESS)(1 FT/12 IN)	=	0.0025833333
FIRE BRICK	FIRE BRICK	SQFT	(X SQFT)(4 IN THICKNESS)(1 FT/12 IN)	=	0.3333333333
GYPSUM BOARD	DRYWALL	SQFT	(X SQFT)(3/4 IN THICKNESS)(1 FT/12 IN)	=	0.0625
INSULATION	BUILDING INSULATION	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)	=	0.1666666667
INSULATION	DUCTWORK INSULATION	SQFT	(X SQFT)(1 IN THICKNESS)(1 FT/12 IN)	=	0.0833333333
INSULATION	PIPING INSULATION	SQFT	(X SQFT)(1 IN THICKNESS)(1 FT/12 IN)	=	0.0833333333

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TABLE 3-5 SWIFTS UNBULKED VOLUME CONVERSION FACTORS

September 1995

MATERIAL	MATERIAL DESCRIPTION	TAKEOFF QUANTITY UNIT	UNBULKED VOLUME CONVERSION FACTOR TO CUFT		
LEAD FLASHING	LEAD FLASHING	LBS	(X LBS)(1 CUFT/710 LBS)	=	0.0014084507
LOUVERS	LOUVERS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)	=	0.1666666667
METAL PANELS	EXTERIOR METAL WALL PANELS	SQFT	(X SQFT)(0.0198 IN)(1 FT/12 IN)(1.35 INCREASE)	=	0.0022275
METAL PANELS	INTERIOR METAL WALL PANELS	SQFT	(X SQFT)(0.0198 IN)(1 FT/12 IN)(1.35 INCREASE)	=	0.0022275
METAL PANELS	METAL PANEL ROOF	SQFT	(X SQFT)(0.0198 IN)(1 FT/12 IN)(1.35 INCREASE)	=	0.0022275
MISCELLANEOUS	MISCELLANEOUS DEBRIS	CUFT	(X CUFT)	=	1
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	CUFT	(X CUFT)	=	1
PIPING	CLAY PIPING	LNFT	(X LNFT)(Pi){[(10.75/2 IN)(1 FT/12 IN)]^2-[(10/2 IN)(1 FT/12 IN)]^2}	=	0.0848801986
PIPING	PIPING (2" AND LESS)	LNFT	(X LNFT)(Pi)[(2/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.0261799167
PIPING	PIPING (2-1/2" TO 4")	LNFT	(X LNFT)(Pi)[(4/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.1047196667
PIPING	PIPING (OVER 4")	LNFT	(X LNFT)(Pi)[(8/2 IN)(1 FT/12 IN)]^2 (1.2 INCREASE)	=	0.4188786667
PIPING	PVC PIPING	LNFT	(X LNFT)(Pi)[(4/2 IN)(1 FT/12 IN)]^2	=	0.0872663889
ROOFING (BUILT UP)	ROOFING (BUILT UP)	SQFT	(X SQFT)(1 IN THICKNESS)(1 FT/12 IN)	=	0.0833333333
STEEL	STRUCTURAL AND MISC. STEEL	TONS	(X TONS)(2000 LBS/1 TONS)(1 CUFT/490 LBS)	=	4.0816326531
TILE	FLOOR TILE	SQFT	(X SQFT)(1/4 IN THICKNESS)(1 FT/12 IN)	=	0.0208333333
TRAILERS	NON PROCESS TRAILERS	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
TRAILERS	PROCESS TRAILERS	CUFT	NO CONVERSION FACTOR (UNBULKED VOLUMES DIRECTLY ENTERED)		
TRANSITE	EXTERIOR TRANSITE PANELS	SQFT	(X SQFT)(7/16 IN THICKNESS)(1 FT/12 IN)	=	0.0364583333
TRANSITE	INTERIOR TRANSITE PANELS	SQFT	(X SQFT)(1/4 IN THICKNESS)(1 FT/12 IN)	=	0.0208333333
TRANSITE	TRANSITE ROOF	SQFT	(X SQFT)(7/16 IN THICKNESS)(1 FT/12 IN)	=	0.0364583333
WINDOWS	WINDOWS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)	=	0.1666666667
WOOD	WOOD	CUFT	(X CUFT)	=	1

TABLE 3-6 SWIFTS WEIGHT CONVERSION FACTORS

September 1995

MATERIAL	MATERIAL DESCRIPTION	TAKE OFF QUANTITY UNIT	WEIGHT CONVERSION FACTOR TO TONS			UNIT WEIGHT
ASPHALT	ASPHALT	CUYD	(X CUYD)(27 CUFT/1 CUYD)(81 LBS/CUFT)(1 TON/2000 LBS)	=	1.0935	81 LBS/CUFT
CEILING DEMOLITION	CEILING DEMOLITION	SQFT	(X SQFT)(1.5 LBS/SQFT)(1 TON/2000 LBS)	=	0.00075	1.5 LBS/SQFT
CONCRETE	ACID BRICK	SQFT	(X SQFT)(4 INCH THICKNESS)(1 FT/12 IN)(140 LBS/CUFT)(1 TON/2000 LBS)	=	0.023333333	140 LBS/CUFT
CONCRETE	CONCRETE	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	CONCRETE BEAMS	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	CONCRETE COLUMNS	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	CONCRETE FOUNDATION	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	CONCRETE SLABS	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	CONCRETE WALLS	CUYD	(X CUYD)(27 CUFT/1 CUYD)(150 LBS/CUFT)(1 TON/2000 LBS)	=	2.025	150 LBS/CUFT
CONCRETE	MASONRY	SQFT	(X SQFT)(8 IN THICKNESS)(1 FT/12 IN)(55 LBS/CUFT)(1 TON/2000 LBS)	=	0.018333333	55 LBS/CUFT
CONCRETE	MASONRY WALLS	SQFT	(X SQFT)(8 IN THICKNESS)(1 FT/12 IN)(55 LBS/CUFT)(1 TON/2000 LBS)	=	0.018333333	55 LBS/CUFT
DOORS	DOORS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)(40 LBS/CUFT)(1 TON/2000 LBS)	=	0.003333333	40 LBS/CUFT
DUCTWORK	DUCTWORK	SQFT	(X SQFT)(2.75 LBS/SQFT)(1 TON/2000 LBS)	=	0.001375	2.75 LBS/SQFT
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	LNFT	(X LNFT)(2.2 LBS/LNFT)(1 TON/2000 LBS)	=	0.0011	2.2 LBS/FT
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	LNFT	(X LNFT)(12.8 LBS/LNFT)(1 TON/2000 LBS)	=	0.0064	12.8 LBS/FT
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	LNFT	(X LNFT)(27.2 LBS/LNFT)(1 TON/2000 LBS)	=	0.0136	27.2 LBS/FT
ELECTRICAL	ELECTRICAL FIXTURES	EACH	(X EACH)(25 LBS/EACH)(1 TON/2000 LBS)	=	0.0125	25 LBS (EACH)
ELECTRICAL	ELECTRICAL TRANSFORMERS	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
ELECTRICAL	ELECTRICAL TRANSFORMERS	EACH	(X EACH)(20 CUFT/1 EACH)(50 LBS/CUFT)(1 TON/2000 LBS)	=	0.5	50 LBS/CUFT
ELECTRICAL	ELECTRICAL WIRING	LNFT	(X LNFT)(Pi)[(1/2 IN)(1 FT/12 IN)]^2 (574 LBS/CUFT)(1 TON/2000 LBS)	=	0.001565341	574 LBS/CUFT
ELECTRICAL	FEEDER CABLE	LNFT	(X LNFT)(Pi)[(1.7/2 IN)(1 FT/12 IN)]^2 (574 LBS/CUFT)(1 TON/2000 LBS)	=	0.004523835	574 LBS/CUFT
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	EACH	(X EACH)(10 CUFT/1 EACH)(50 LBS/CUFT)(1 TON/2000 LBS)	=	0.25	50 LBS/CUFT
ELECTRICAL	PVC CONDUIT	LNFT	(X LNFT)(Pi)[(1/2 IN)(1 FT/12 IN)]^2 (65 LBS/CUFT)(1 TON/2000 LBS)	=	0.00017726	65 LBS/CUFT
EQUIPMENT	ELECTRICAL EQUIPMENT	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
EQUIPMENT	HVAC EQUIPMENT	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
EQUIPMENT	PROCESS EQUIPMENT	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
FABRIC	BASIN LINERS	SQFT	(TO QTY)(24 OUNCES/SQYD)(1 SQYD/9 SQFT)(1 LB/16 OUNCES)(1 TON/2000 LBS)	=	0.000083333	24 OUNCES/SQYD
FABRIC	FABRIC	SQFT	(TO QTY)(24 OUNCES/SQYD)(1 SQYD/9 SQFT)(1 LB/16 OUNCES)(1 TON/2000 LBS)	=	0.000083333	24 OUNCES/SQYD
FABRIC	FABRIC ROOF	SQFT	(TO QTY)(24 OUNCES/SQYD)(1 SQYD/9 SQFT)(1 LB/16 OUNCES)(1 TON/2000 LBS)	=	0.000083333	24 OUNCES/SQYD
FABRIC	FABRIC WALLS	SQFT	(TO QTY)(24 OUNCES/SQYD)(1 SQYD/9 SQFT)(1 LB/16 OUNCES)(1 TON/2000 LBS)	=	0.000083333	24 OUNCES/SQYD
FIRE BRICK	FIRE BRICK	SQFT	(X SQFT)(4 IN THICKNESS)(1 FT/12 IN)(140 LBS/CUFT)(1 TON/2000 LBS)	=	0.023333333	140 LBS/CUFT
GYPSUM BOARD	DRYWALL	SQFT	(X SQFT)(3.3 LBS/SQFT)(1 TON/2000 LBS)	=	0.00165	3.3 LBS/SQFT
INSULATION	BUILDING INSULATION	SQFT	(X SQFT)(0.75 LBS/SQFT)(1 TON/2000 LBS)	=	0.000375	0.75 LBS/SQFT
INSULATION	DUCTWORK INSULATION	SQFT	(X SQFT)(1 IN THICKNESS)(1 FT/12 IN)(4.5 LBS/CUFT)(1 TON/2000 LBS)	=	0.0001875	4.5 LBS/CUFT
INSULATION	PIPING INSULATION	SQFT	(X SQFT)(1 IN THICKNESS)(1 FT/12 IN)(4.5 LBS/CUFT)(1 TON/2000 LBS)	=	0.0001875	4.5 LBS/CUFT
LEAD FLASHING	LEAD FLASHING	LBS	(X LBS)(1 TON/2000 LBS)	=	0.0005	710 LBS/CUFT
LOUVERS	LOUVERS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)(40 LBS/CUFT)(1 TON/2000 LBS)	=	0.003333333	40 LBS/CUFT
METAL PANELS	EXTERIOR METAL WALL PANELS	SQFT	(X SQFT)(1.1 LBS/SQFT)(1 TON/2000 LBS)	=	0.00055	1.1 LBS/SQFT
METAL PANELS	INTERIOR METAL WALL PANELS	SQFT	(X SQFT)(1.1 LBS/SQFT)(1 TON/2000 LBS)	=	0.00055	1.1 LBS/SQFT
METAL PANELS	METAL PANEL ROOF	SQFT	(X SQFT)(1.1 LBS/SQFT)(1 TON/2000 LBS)	=	0.00055	1.1 LBS/SQFT

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TABLE 3-6 SWIFTS WEIGHT CONVERSION FACTORS

September 1995

MATERIAL	MATERIAL DESCRIPTION	TAKEOFF QUANTITY UNIT	WEIGHT CONVERSION FACTOR TO TONS			UNIT WEIGHT
MISCELLANEOUS	MISCELLANEOUS DEBRIS	CUFT	(X CUFT)(30 LBS/CUFT)(1 TON/2000 LBS)	=	0.015	30 LBS/CUFT
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	CUFT	(X CUFT)(3.024 LBS/CUFT)(1 TON/2000 LBS)	=	0.001512	3.024 LBS/CUFT
PIPING	CLAY PIPING	LNFT	(X LNFT)(Pi){[(10.75/2 IN)(1 FT/12 IN)]^2-{(10/2 IN)(1 FT/12 IN)]^2} (140 LBS/CUFT)(1 TON/2000 LBS)	=	0.005941614	140 LBS/CUFT
PIPING	PIPING (2" AND LESS)	LNFT	(X LNFT)(5.9 LBS/LNFT)(1 TON/2000 LBS)	=	0.00295	5.9 LBS/FT
PIPING	PIPING (2-1/2" TO 4")	LNFT	(X LNFT)(15 LBS/LNFT)(1 TON/2000 LBS)	=	0.0075	15 LBS/FT
PIPING	PIPING (OVER 4")	LNFT	(X LNFT)(37 LBS/LNFT)(1 TON/2000 LBS)	=	0.0185	37 LBS/FT
PIPING	PVC PIPING	LNFT	(X LNFT)(.75 LB/LNFT)(1 TON/2000 LBS)	=	0.000375	65 LBS/CUFT
ROOFING (BUILT UP)	ROOFING (BUILT UP)	SQFT	(X SQFT)(6 LBS/SQFT)(1 TON/2000 LBS)	=	0.003	6 LBS/SQFT
STEEL	STRUCTURAL AND MISC. STEEL	TONS	(X TONS)	=	1	490 LBS/CUFT
TILE	FLOOR TILE	SQFT	(X SQFT)(2 LBS/SQFT)(1 TON/2000 LBS)	=	0.001	2 LBS/SQFT
TRAILERS	NON PROCESS TRAILERS	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
TRAILERS	PROCESS TRAILERS	CUFT	NO CONVERSION FACTOR (WEIGHT DIRECTLY ENTERED)			
TRANSITE	EXTERIOR TRANSITE PANELS	SQFT	(X SQFT)(4.1 LBS/SQFT)(1 TON/2000 LBS)	=	0.00205	4.1 LBS/SQFT
TRANSITE	INTERIOR TRANSITE PANELS	SQFT	(X SQFT)(2.3 LBS/SQFT)(1 TON/2000 LBS)	=	0.00115	2.3 LBS/SQFT
TRANSITE	TRANSITE ROOF	SQFT	(X SQFT)(4.1 LBS/SQFT)(1 TON/2000 LBS)	=	0.00205	4.1 LBS/SQFT
WINDOWS	WINDOWS	SQFT	(X SQFT)(2 IN THICKNESS)(1 FT/12 IN)(40 LBS/CUFT)(1 TON/2000 LBS)	=	0.003333333	40 LBS/CUFT
WOOD	WOOD	CUFT	(X CUFT)(30 LB/CUFT)(1 TON/2000 LBS)	=	0.015	30 LBS/CUFT

TABLE 3-7 SUMMARY OF OU3 SWIFTS MATERIAL BULKING FACTORS

September 1995

MATERIAL	MATERIAL DESCRIPTION	BULKING FACTOR
ASPHALT	ASPHALT	1.3
CEILING DEMOLITION	CEILING DEMOLITION	2
CONCRETE	ACID BRICK	1.3
CONCRETE	CONCRETE	1.3
CONCRETE	CONCRETE BEAMS	1.3
CONCRETE	CONCRETE COLUMNS	1.3
CONCRETE	CONCRETE FOUNDATION	1.3
CONCRETE	CONCRETE SLABS	1.3
CONCRETE	CONCRETE WALLS	1.3
CONCRETE	MASONRY	1.3
CONCRETE	MASONRY WALLS	1.3
DOORS	DOORS	2
DUCTWORK	DUCTWORK	2
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	2
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	2
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	2
ELECTRICAL	ELECTRICAL FIXTURES	2
ELECTRICAL	ELECTRICAL TRANSFORMERS	2
ELECTRICAL	ELECTRICAL WIRING	2
ELECTRICAL	FEEDER CABLE	2
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	2
ELECTRICAL	PVC CONDUIT	2
EQUIPMENT	ELECTRICAL EQUIPMENT	3.5
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	3.5
EQUIPMENT	HVAC EQUIPMENT	3.5
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	3.5
EQUIPMENT	PROCESS EQUIPMENT	3.5
FABRIC	BASIN LINERS	2
FABRIC	FABRIC	2
FABRIC	FABRIC ROOF	2
FABRIC	FABRIC WALLS	2
FIRE BRICK	FIRE BRICK	1.3
GYPSUM BOARD	DRYWALL	2
INSULATION	BUILDING INSULATION	1.2
INSULATION	DUCTWORK INSULATION	4
INSULATION	PIPING INSULATION	4
LEAD FLASHING	LEAD FLASHING	2
LOUVERS	LOUVERS	2
METAL PANELS	EXTERIOR METAL WALL PANELS	2
METAL PANELS	INTERIOR METAL WALL PANELS	2
METAL PANELS	METAL PANEL ROOF	2
MISCELLANEOUS	MISCELLANEOUS DEBRIS	2
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	1.2
PIPING	CLAY PIPING	1.3
PIPING	PIPING (2" AND LESS)	2
PIPING	PIPING (2-1/2" TO 4")	2
PIPING	PIPING (OVER 4")	2
PIPING	PVC PIPING	2
ROOFING (BUILT UP)	ROOFING (BUILT UP)	2
STEEL	STRUCTURAL AND MISC. STEEL	16.7
TILE	FLOOR TILE	1.2
TRAILERS	NON PROCESS TRAILERS	2
TRAILERS	PROCESS TRAILERS	2
TRANSITE	EXTERIOR TRANSITE PANELS	1.2
TRANSITE	INTERIOR TRANSITE PANELS	1.2
TRANSITE	TRANSITE ROOF	1.2
WINDOWS	WINDOWS	2
WOOD	WOOD	2

4.0 OU3 MATERIAL QUANTITIES BY OU3 RI/FS MATERIAL CATEGORY

This section presents the OU3 material quantities by RI/FS Material Categories A through I, as defined in Section 3.1.2. Category J is quantified in Appendix D.

Table 4-1 presents a summary of OU3 SWIFTS Material Quantities by RI/FS category.

This table is consistent with the report format in Appendix C in showing material, material description, unbulked volume, bulked volume, and weight. In addition, the RI/FS category is shown, and the table in this section is sorted by RI/FS category.

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TABLE 4-1 SUMMARY OF OU3 SWIFTS MATERIAL QUANTITIES BY RI/FS CATEGORY AND MATERIAL

RI/FS CATEGORY	MATERIAL	MATERIAL DESCRIPTION	UNBULKED VOLUME (CUFT) ABOVE-GRADE	UNBULKED VOLUME (CUFT) AT- and BELOW-GRADE	UNBULKED VOLUME (CUFT) TOTAL	BULKED VOLUME (CUFT) ABOVE-GRADE	BULKED VOLUME (CUFT) AT- and BELOW-GRADE	BULKED VOLUME (CUFT) TOTAL	WEIGHT (TONS) ABOVE-GRADE	WEIGHT (TONS) AT- and BELOW-GRADE	WEIGHT (TONS) TOTAL
A	STEEL	STRUCTURAL AND MISC. STEEL	51,700	9,740	61,400	863,000	163,000	1,030,000	12,700	2,390	15,000
B	DOORS	DOORS	10,200	0	10,200	20,400	0	20,400	204	0	204
B	ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	6,300	0	6,300	12,600	0	12,600	1,060	0	1,060
B	ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	5,440	0	5,440	10,900	0	10,900	591	0	591
B	ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	1,980	0	1,980	3,960	0	3,960	164	0	164
B	ELECTRICAL	ELECTRICAL FIXTURES	26,100	0	26,100	52,100	0	52,100	163	0	163
B	ELECTRICAL	ELECTRICAL TRANSFORMERS	14,900	0	14,900	29,700	0	29,700	334	0	334
B	ELECTRICAL	ELECTRICAL WIRING	0	206	206	0	411	411	0	59	59
B	ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	16,600	0	16,600	33,200	0	33,200	415	0	415
B	EQUIPMENT	ELECTRICAL EQUIPMENT	97,100	0	97,100	340,000	0	340,000	1,020	0	1,020
B	EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	135,000	0	135,000	473,000	0	473,000	3,380	0	3,380
B	EQUIPMENT	HVAC EQUIPMENT	66,100	0	66,100	231,000	0	231,000	347	0	347
B	EQUIPMENT	MATERIAL HANDLING EQUIPMENT	103,000	0	103,000	362,000	0	362,000	645	0	645
B	EQUIPMENT	PROCESS EQUIPMENT	1,160,000	0	1,160,000	4,050,000	0	4,050,000	11,100	0	11,100
B	PIPING	PIPING (2" AND LESS)	12,200	604	12,800	24,300	1,210	25,500	1,370	68	1,440
B	PIPING	PIPING (2-1/2" TO 4")	18,400	3,030	21,400	36,700	6,050	42,800	1,310	217	1,530
B	PIPING	PIPING (OVER 4")	27,800	39,200	67,000	55,700	78,300	134,000	1,230	1,730	2,960
		SUBTOTAL	1,700,000	43,000	1,740,000	5,730,000	86,000	5,820,000	23,400	2,070	25,400
C	EQUIPMENT	ELECTRICAL EQUIPMENT	8,160	0	8,160	28,600	0	28,600	94.7	0	94.7
C	EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	15,000	0	15,000	52,500	0	52,500	375	0	375
C	EQUIPMENT	HVAC EQUIPMENT	5,380	0	5,380	18,800	0	18,800	28.6	0	28.6
C	EQUIPMENT	MATERIAL HANDLING EQUIPMENT	11,200	0	11,200	39,300	0	39,300	69.2	0	69.2
C	EQUIPMENT	PROCESS EQUIPMENT	91,900	0	91,900	322,000	0	322,000	1,090	0	1,090
C	PIPING	PIPING (2" AND LESS)	842	162	1,000	1,680	324	2,010	94.8	18.2	113
C	PIPING	PIPING (2-1/2" TO 4")	1,560	1,190	2,750	3,120	2,390	5,500	112	85.5	197
C	PIPING	PIPING (OVER 4")	1,450	12,600	14,000	2,910	25,200	28,100	64.2	556	620
		SUBTOTAL	136,000	13,900	149,000	469,000	27,900	496,000	1,930	660	2,590
D	DUCTWORK	DUCTWORK	3,220	0	3,220	6,450	0	6,450	890	0	890
D	LEAD FLASHING	LEAD FLASHING	49.4	0	49.4	98.8	0	98.8	17.5	0	17.5
D	LOUVERS	LOUVERS	1,480	0	1,480	2,950	0	2,950	29.5	0	29.5
D	METAL PANELS	EXTERIOR METAL WALL PANELS	591	0	591	1,180	0	1,180	146	0	146
D	METAL PANELS	INTERIOR METAL WALL PANELS	91.1	0	91.1	182	0	182	22.5	0	22.5
D	METAL PANELS	METAL PANEL ROOF	623	0	623	1,250	0	1,250	154	0	154
		SUBTOTAL	6,060	0	6,060	12,100	0	12,100	1,260	0	1,260
E	ASPHALT	ASPHALT	0	552,000	552,000	0	718,000	718,000	0	22,400	22,400
E	CONCRETE	CONCRETE	50,100	418,000	468,000	65,100	543,000	608,000	3,750	31,300	35,100
E	CONCRETE	CONCRETE BEAMS	49,400	8,180	57,600	64,200	10,600	74,900	3,710	614	4,320
E	CONCRETE	CONCRETE COLUMNS	22,400	0	22,400	29,100	0	29,100	1,680	0	1,680
E	CONCRETE	CONCRETE FOUNDATION	0	921,000	921,000	0	1,200,000	1,200,000	0	69,100	69,100
E	CONCRETE	CONCRETE SLABS	167,000	1,920,000	2,090,000	218,000	2,500,000	2,720,000	12,600	144,000	157,000
E	CONCRETE	CONCRETE WALLS	32,300	106,000	139,000	42,000	138,000	180,000	2,420	7,980	10,400
E	CONCRETE	MASONRY	0	12,200	12,200	0	15,900	15,900	0	336	336
E	CONCRETE	MASONRY WALLS	260,000	0	260,000	338,000	0	338,000	7,150	0	7,150
E	PIPING	CLAY PIPING	0	7,910	7,910	0	10,300	10,300	0	554	554
		SUBTOTAL	582,000	3,950,000	4,530,000	756,000	5,130,000	5,890,000	31,300	276,000	308,000
F	CONCRETE	ACID BRICK	400	20,300	20,700	520	26,400	26,900	28	1,420	1,450
G	CEILING DEMOLITION	CEILING DEMOLITION	12,300	0	12,300	24,500	0	24,500	147	0	147
G	ELECTRICAL	FEEDER CABLE	0	1,120	1,120	0	2,240	2,240	0	321	321
G	FIRE BRICK	FIRE BRICK	5,590	0	5,590	7,270	0	7,270	391	0	391
G	TILE	FLOOR TILE	1,460	2,260	3,720	1,760	2,710	4,460	70.3	108	179
G	TRANSITE	EXTERIOR TRANSITE PANELS	17,500	0	17,500	21,000	0	21,000	982	0	982
G	TRANSITE	INTERIOR TRANSITE PANELS	12,300	0	12,300	14,800	0	14,800	680	0	680
G	TRANSITE	TRANSITE ROOF	18,900	0	18,900	22,600	0	22,600	1,060	0	1,060
		SUBTOTAL	68,000	3,370	71,300	91,900	4,940	96,800	3,330	429	3,760
H	INSULATION	DUCTWORK INSULATION	5,390	0	5,390	21,600	0	21,600	12.1	0	12.1
H	INSULATION	PIPING INSULATION	20,200	0	20,200	80,700	0	80,700	45.4	0	45.4
H	MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	6,860	0	6,860	8,240	0	8,240	10.4	0	10.4
		SUBTOTAL	32,400	0	32,400	110,000	0	110,000	67.9	0	67.9
I	ELECTRICAL	PVC CONDUIT	0	408	408	0	815	815	0	13.3	13.3
I	FABRIC	BASIN LINERS	0	2,140	2,140	0	4,290	4,290	0	69.1	69.1
I	FABRIC	FABRIC	35.7	0	35.7	71.4	0	71.4	1.15	0	1.15
I	FABRIC	FABRIC ROOF	382	0	382	765	0	765	12.3	0	12.3
I	FABRIC	FABRIC WALLS	176	0	176	352	0	352	5.68	0	5.68
I	GYPSUM BOARD	DRYWALL	20,400	0	20,400	40,800	0	40,800	538	0	538
I	INSULATION	BUILDING INSULATION	155,000	0	155,000	186,000	0	186,000	349	0	349
I	MISCELLANEOUS	MISCELLANEOUS DEBRIS	31,100	11.5	31,200	62,300	23.1	62,300	467	0.173	467
I	MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	36,000	0	36,000	43,200	0	43,200	54.5	0	54.5
I	PIPING	PVC PIPING	0	283	283	0	565	565	0	1.22	1.22
I	ROOFING (BUILT UP)	ROOFING (BUILT UP)	29,000	0	29,000	58,000	0	58,000	1,040	0	1,040
I	TRAILERS	NON PROCESS TRAILERS	305,000	0	305,000	610,000	0	610,000	897	0	897
I	TRAILERS	PROCESS TRAILERS	71,100	0	71,100	142,000	0	142,000	209	0	209
I	WINDOWS	WINDOWS	21,000	0	21,000	41,900	0	41,900	419	0	419
I	WOOD	WOOD	6,320	24,600	30,900	12,600	49,200	61,800	94.8	369	463
		SUBTOTAL	676,000	27,400	703,000	1,200,000	54,800	1,250,000	4,090	452	4,540
		TOTAL FOR ALL RI/FS CATEGORIES	3,250,000	4,070,000	7,320,000	9,230,000	5,500,000	14,700,000	78,000	284,000	362,000

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APPENDIX A
OU3 COMPONENT LIST

In the OU3 RI/FS WPA, components were categorized, based on similarity of function and/or type of structure, into eleven separate component categories or groups. Component categories 1-4 consist of those OU3 components classified in the general category of structures, facilities, and/or buildings. The four categories are separated by basic function. Within each of these categories, individual components are considered to include such associated items as equipment, machinery, inside sumps, utilities, and piping (i.e., tank/distribution systems), provided that those items are considered integral parts of the component. Such items not considered to be integral parts of the component are placed in category 9 or 10 (piping/utilities/equipment). The eleven categories are defined as follows:

1. Administrative/Support Buildings - Category 1 includes all administrative and support buildings.

2. Warehouse/Storage Buildings - Category 2 consists of all warehouse and storage buildings.

3. Process Buildings - Category 3 includes all buildings that housed major processing activities.

4. Process Support Buildings - Category 4 includes all buildings that provided or provide support for plant operations.

5. Containers/Containerized Material, Aboveground (includes all drums) - Category 5 includes: all aboveground containers (whether empty or not) and containerized material; all waste and product inventories, including hold-up material; and all uranium and thorium inventories. Category 5 does not include tanking/piping/distribution systems or bulk stored materials.

6. Containers/Containerized Material, Belowground - Same as Category 5, except components are belowground.

7. Bulk Material (includes waste piles) - Category 7 includes all existing scrap metal piles, copper piles, soil piles, and similar items within OU3 scope. It also is intended that this category will include any newly generated soil piles, rubble piles, and the like that result from ongoing activities both in and out of the scope of OU3.

8. Storage Pads/Parking Lot/Roads/Railroads - Category 8 consists of waste storage or handling pads, railroads, roads, the parking lot, and sidewalks.

9. Piping/Utilities/Equipment, Aboveground - Category 9 includes all aboveground piping and utility systems, including outside tank and distribution systems.

10. Piping/Utilities/Equipment, Belowground - Category 10 includes all underground piping and utility systems.

11. Ponds and Basins - Category 11 includes surface impoundments, ponds, and basins. The largest of these are biodenitrification (BDN) surge lagoon and the storm-water retention basins.

Table A-1 lists all OU3 components along with their associated alpha-numeric designation and the appropriate component category. Included in the table are components that currently exist at the time of the issuance of this document plus those components which have been previously dismantled under existing, approved removal actions.

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TABLE A-1 OPERABLE UNIT 3 COMPONENT IDENTIFICATION LIST

September 1995

Component	Component Designation	Component[1] Category	Component	Component Designation	Component[1] Category
Preparation Plant	1 A	3	Plant 7 [b]	7 A	2
Plant 1 Storage Shelter	1 B	2	Plant 7 Overhead Crane [b]	7 B	9
Plant 1 Ore Silos [a]	1 C	5	Recovery Plant	8 A	3
Ore Refinery Plant	2 A	3	Plant 8 Maintenance Building	8 B	4
General/Refinery Sump Control Bldg.	2 B	4	Rotary Kiln/Drum Reconditioning	8 C	3
Bulk Lime Handling Building	2 C	4	Plant 8 Railroad Filter Building	8 D	4
Metal Dissolver Building	2 D	3	Drum Conveyor Shelter	8 E	9
NFS Storage & Pump House	2 E	5	Plant 8 Old Drum Washer	8 F	9
Cold Side Ore Conveyor	2 F	9	Special Products Plant	9 A	3
Hot Side Ore Conveyor	2 G	9	Plant 9 Sump Treatment Facility	9 B	3
Conveyor Tunnel (from Plant 1)	2 H	10	Plant 9 Dust Collector	9 C	9
Maintenance Building	3 A	4	Plant 9 Substation	9 D	4
Ozone Building	3 B	4	Plant 9 Cylinder Shed	9 E	4
NAR Control House	3 C	1	Electrostatic Precipitator	9 F	3
NAR Towers	3 D	5	Boiler Plant	10 A	4
Hot Raffinate Building	3 E	3	Boiler Plant Maintenance Building	10 B	4
Harshaw Digestion Fume Recovery	3 F	5	Wet Salt Storage Bin	10 C	4
Refrigeration Building	3 G	4	Cont. Oil/Graphite Burn Pad	10 D	8
Refinery Sump	3 H	5	Utilities Heavy Equipment Building	10 E	4
Combined Raffinate Tanks	3 J	5	Service Building	11	1
Old Cooling Water Tower	3 K	10	Main Maintenance Building	12 A	4
Electrical Power Center Building	3 L	4	Cylinder Storage Building	12 B	2
Green Salt Plant	4 A	3	Lumber Storage Building	12 C	2
Plant 4 Warehouse	4 B	2	Maintenance Building Warehouse	12 D	2
Plant 4 Maintenance Building [b]	4 C	4	Pilot Plant Wet Side	13 A	3
Metals Production Plant	5 A	3	Pilot Plant Maintenance Building	13 B	4
Plant 5 Ingot Pickling	5 B	4	Sump Pump House	13 C	3
Plant 5 Electrical Substation	5 C	4	Pilot Plant Thorium Tank Farm	13 D	5
West Derby Breakout/Slag Milling	5 D	4	Administration Building	14 A	1
Plant 5 Filter Building	5 E	2	Building 14 EOC Generator Set	14 B	9
Plant 5 Covered Storage Pad	5 F	2	Laboratory	15 A	3
Plant 5 Ingot Storage Shelter	5 G	2	Laboratory Chemical Storage Building	15 B	2
Metals Fabrication Plant	6 A	3	Main Electrical Station	16 A	9
Plant 6 Covered Storage Area	6 B	2	Electrical Substation	16 B	4
Plant 6 Electrostatic Precipitator (South)	6 C	3	Electrical Panels and Transformer	16 C	9
Plant 6 Electrostatic Precipitator (Central)	6 D	9	Main Electrical Switch House	16 D	4
Plant 6 Electrostatic Precipitator (North)	6 E	3	Main Electrical Transformers	16 E	9
Plant 6 Salt Oil Heat Treat Building	6 F	3	Trailer Substation #1	16 F	9
Plant 6 Sump Building	6 G	3	Trailer Substation #2	16 G	9

TABLE A-1 Operable Unit 3 Component Identification List (Continued)

September 1995

Component	Component Designation	Component[b] Category	Component	Component Designation	Component[b] Category
10-Plex North Substation	16 H	9	Sludge Drying Beds	25 F	11
10-Plex South Substation	16 J	9	Primary Settling Basins	25 G	11
BDN Surge Lagoon	18 A	11	Trickling Filters	25 H	5
General Sump	18 B	5	10-Plex Sewage Lift Station	25 J	10
Coal Pile Runoff Basin	18 C	11	Pump House - HP Fire Protection	26 A	4
Biodenitrification Towers	18 D	3	Elevated Water Storage Tank	26 B	5
Storm Water Retention Basins	18 E	11	Main Electrical Strainer House	26 C	4
Clearwell Pump House	18 G	3	Security Building	28 A	1
BDN Effluent Treatment Facility	18 H	3	Human Resources Building	28 B	1
Methanol Tank	18 J	5	Guard Post on South End of D Street[c]	28 C	1
Low Nitrate Tank	18 K	11	Guard Post on West End of 2nd Street	28 D	4
High Nitrate Tank	18 L	11	Guard Post of T-81	28 E	1
High Nitrate Storage Tank	18 M	5	Skeet Range Building	28 F	1
Dissolved Oxygen Building	18 P	4	Guard Post South of Building 51	28 G	1
IAWWT Valve House	18 Q	4	Chemical Warehouse	30 A	2
Main Tank Farm	19 A	5	Drum Storage Warehouse	30 B	2
Pilot Plant Ammonia Tank Farm	19 B	5	Old Ten Ton Scale	30 C	8
Tank Farm Control House	19 C	4	Engine House/Garage	31 A	3
Old North Tank Farm	19 D	5	Old Truck Scale	31 B	8
Tank Farm Lime Slitter Building	19 E	4	Magnesium Storage Building	32 A	2
Pump Station & Power Center	20 A	4	Building 32 Covered Loading Dock	32 B	2
Water Plant	20 B	4	Pilot Plant Annex	37	3
Cooling Towers	20 C	9	Propane Storage	38 A	4
Elevated Potable Storage Tank	20 D	5	Cylinder Filling Station	38 B	9
Well House #1	20 E	4	Incinerator Building	39 A	3
Well House #2	20 F	4	Waste Oil Decant Shelter	39 B	3
Well House #3	20 G	4	Incinerator Sprinkler Riser House	39 C	4
Process Water Storage Tank	20 H	5	Sewage Treatment Plant Incinerator	39 D	9
Gas Meter Building	22 A	4	Rust Engineering Building	45 A	1
Storm Sewer Lift Station	22 B	4	Utility Shed East of Rust Trailers	45 B	4
Truck Scale	22 C	4	Heavy Equipment Building	46	4
Scale House & Weigh Scale	22 D	4	Six to Four Reduction Facility #2	51	4
Utility Trench to Pit Area	22 E	10	Health & Safety Building	53 A	1
Meteorological Tower	23	9	In Vivo Building	53 B	1
Railroad Scale House	24 A	4	Six to Four Reduction Facility #1	54 A	3
Railroad Engine House	24 B	4	Pilot Plant Shelter	54 B	2
Chlorination Building	25 A	4	Pilot Plant Dissociator Shelter	54 C	4
M.H. #175/Eff. Line/Sampling Bldg.	25 B	4	Slag Recycling Building	55 A	3
Sewage Lift Station Building	25 C	4	Slag Recycling Pit/Elevator	55 B	3
U.V. Disinfection Building	25 D	4	CP Storage Warehouse	56 A	2
Digester and Control Building	25 E	4	Storage Shed (West)	56 B	2

TABLE A-1 Operable Unit 3 Component Identification List (Continued) September 1995

Component	Component Designation	Component[1] Category	Component	Component Designation	Component[1] Category
Storage Shed (East)	56 C	2	Laboratory Pad	74 V	8
Quonset Hut #1	60	2	Building 39A Pad	74 W	8
Quonset Hut #2	61	2	Finished Products Warehouse (4A)	77	2
Quonset Hut #3	62	2	D & D Building	78	4
KC-2 Warehouse	63	2	Plant 6 Warehouse	79	2
Thorium Warehouse	64	2	Plant 8 Warehouse	80	2
(Old) Plant 5 Warehouse	65	2	Plant 9 Warehouse	81	2
Drum Reconditioning Building	66	3	Receiving/Incoming Materials Inspection	82	4
Plant 1 Thorium Warehouse	67	2	Clearwell Line	88	10
Pilot Plant Warehouse	68	2	Parking Lot	89	8
Decontamination Building	69	3	Railroad Tracks	G-001	8
General In-Process Warehouse	71	2	Roads	G-002	8
Drum Storage Building	72	2	Storm Sewer System	G-003	10
Fire Brigade Training Center Bldg. [d]	73 A	1	Utility Lines	G-004	10
Fire Training Pond [d]	73 B	11	Underground Storage Tanks	G-005	6
Fire Training Tank [d]	73 C	5	Process Trailers	G-006	1
Fire Training Burn Trough [d]	73 D	6	Non-Process Trailers	G-007	1
Confined Space Burn Tank [d]	73 E	5	Pipe Bridges	G-008	9
Plant 2 East Pad	74 A	8	Non-RCRA Drums [e]	G-009	5
Plant 2 West Pad	74 B	8	RCRA Drums [e]	G-010	5
Plant 8 East Pad	74 C	8	Inventory [f]	G-011	5
Plant 8 West Pad	74 D	8	Mobile Containers (Sea-Land) [e]	G-012	5
Plant 4 Pad	74 E	8	Soil Piles	G-013	7
Plant 7 Pad	74 F	8	Rock Salt Pile	P-001	7
Plant 5 East Pad	74 G	8	Sand Piles	P-002	7
Plant 5 South Pad	74 H	8	Gravel Pile	P-003	7
Plant 6 Pads	74 J	8	Copper Metal Scrap Pile [g]	P-004	7
Plant 9 Pad	74 K	8	Coal Pile	P-005	7
Building 65 West Pad	74 L	8	Scrap Metal Pile [g]	P-006	7
Building 64 East Pad & R.R. Dock	74 M	8	Outside Equipment Storage Area	P-007	7
Building 12 North Pad	74 N	8	Tension Support Structure #1 [h]	TS-001	2
Decontamination Pad	74 P	8	Tension Support Structure #2 [h]	TS-002	2
Plant 8 Old Metal Dissolver Pad	74 Q	8	Tension Support Structure #3 [h]	TS-003	2
Plant 8 North Pad	74 R	8	Tension Support Structure #4	TS-004	2
Building 63 West Pad	74 S	8	Tension Support Structure #5	TS-005	2
Plant 1 Storage Pad	74 T	8	Tension Support Structure #6	TS-006	2
Pilot Plant Pad	74 U	8			

[1] See attached Component Category Definitions
[a] removed as part of Removal No. 13 - Plant 1 Ore Silos
[b] removed as part of Removal No. 19 - Plant 7 Dismantling
[c] removed during operation and maintenance activities
[d] removed as part of Removal No. 28 - Contamination of the Fire Training Facility
[e] to be removed as part of Removal No. 9 - Removal of Waste Inventories
[f] to be removed as part of Removal No. 12 - Safe Shutdown
[g] removed as part of Removal No. 15 - Scrap Metal Piles
[h] removed as part of Removal No. 7 - Plant 1 Pad Continuing Release

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APPENDIX B
OU3 MATERIAL QUANTITIES BY COMPLEX

This appendix provides summary information concerning unbulked and bulked volume estimates, and their associated weights for materials to be generated from the dismantlement of OU3 components/complexes. Estimates for the OU3 RI/FS material categories, as described in Section 3.1.2, are provided for each component and are summed to provide complex totals. The complexes are listed in the same order as the sequence for the base schedule (see Table B-1). Category J (Product, Residues and Special Materials) has not been included in the tables. These quantities have not been listed on a component/complex basis due to the frequent movement and shipment of waste containers from one component to another or to an off-site disposition facility; category J materials are therefore quantified in Appendix D.

Table B-2 lists unbulked volumes of materials for each component and complex.

Table B-3 provides bulked volume estimates for OU3 materials. These numbers were calculated by multiplying the media-specific bulking factors, as listed in Table 3-7, with the unbulked volume estimates provided in Table B-2. As discussed in Section 3.4, these bulking factors originated during the development of the OU3 Proposed Plan/Environmental Assessment for Interim Remedial Action (PP/EA) and have been further refined from data gathered from Removal Action No. 19 (Plant 7 Dismantling) and from construction industry standards.

The estimates of material tonnage in Table B-4 are calculated by multiplying unbulked material densities to unbulked volume estimates provided in Table B-2. These material densities are either generally well-known chemical properties (e.g., the density of steel is 490 pounds per cubic foot) or were provided by the manufacturer of the material (e.g., the density of transite is 112 pounds per cubic foot).

Some of the components listed in this appendix have already been remediated under existing approved OU3 removal actions; for the status of a component, please reference Table A-1.

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TABLE B-1 ABOVE-GRADE COMPLEX SEQUENCE PRIORITY FOR REMEDIATION

Complex	Components
Building 4A	4A
External Complex	28F, 39D, 69
Thorium/Plant 9 Complex	9A, 9B, 9C, 9D, 9E, 9F, 32A, 32B, 64, 65, 78, 81
Boiler Plant/Water Plant Complex	10A, 10B, 10C, 10E, 20A, 20B, 20C, 20H, 24A, P-005
Tank Farm Complex	19A, 19C, 19D, 19E
Plant 1 Complex	1A, 1B, 30A, 30B, 56A, 56B, 56C, 60, 61, 62, 63, 66, 67, 71, 72, TS-004 through TS-006
Maintenance Complex	12A, 12B, 12C, 12D, 24B, 38A, 38B
East Warehouses Complex	20D, 77, 79, 82
Plant 3 Complex	3B, 3C, 3D, 3E, 3F, 3G, 3J, 3K, 39A, 39C
Plant 2 Complex	2A, 2D, 2E, 2F, 2G, 39B
Plant 8 Complex	8A, 8B, 8C, 8D, 8E, 8F, 80
General Sump Complex	2B, 2C, 3A, 3H, 3L, 18B, 18D, 18H
Plant 5 Complex	4B, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 55A, 55B
Plant 6 Complex	6A, 6B, 6C, 6D, 6E, 6F, 6G
Liquid Storage Complex	18J, 18K, 18L, 20E, 20F, 20G, 22A, 22B, 22D, 26A, 26B, 45A, 45B
Pilot Plant Complex	13A, 13B, 13C, 13D, 37, 54A, 54B, 54C, 68
Laboratory Complex	15A, 15B
Electrical Station Complex	16A, 16B, 16C, 16D, 16E, 16F, 16G, 26C, 31A, 46
Sewage Treatment Plant Complex	25A, 25B, 25C, 25D, 25E
Administration Complex	11, 14A, 14B, 28A, 28B, 53A, 53B

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
ABOVE-GRADE COMPLEXES											
ADMINISTRATION COMPLEX											
SERVICE BUILDING	11	154	29,479	0	286	147,952	0	1,011	994	18,599	198,485
ADMINISTRATION BUILDING	14A	54	10,669	0	37	42,856	0	2,048	187	9,990	65,841
BUILDING 14 EOC GENERATOR SET	14B	0	271	0	0	0	0	0	0	0	271
SECURITY BUILDING	28A	10	895	0	16	8,178	0	0	29	3,730	12,859
HUMAN RESOURCES BUILDING	28B	235	1,097	0	30	3,198	0	554	57	3,727	8,897
HEALTH AND SAFETY BUILDING	53A	334	6,972	0	157	47,337	0	3,247	448	20,196	78,691
IN-VIVO BUILDING	53B	24	1,347	0	26	0	0	141	25	1,719	3,282
ADMINISTRATION COMPLEX TOTAL		822	50,730	0	553	249,521	0	7,000	1,740	57,961	368,326
BOILER PLANT/WATER PLANT COMPLEX											
BOILER PLANT	10A	1,800	55,837	6,006	117	5,480	0	4,612	378	2,951	77,180
BOILER PLANT MAINTENANCE BUILDING	10B	41	174	4	21	580	0	43	21	138	1,023
WET SALT STORAGE BIN	10C	7	19	2	0	1,598	0	0	25	123	1,775
UTILITIES HEAVY EQUIPMENT BUILDING	10E	12	109	1	13	0	0	0	10	381	526
PUMP STATION AND POWER CENTER	20A	56	622	58	4	0	0	202	87	780	1,809
WATER PLANT	20B	224	5,032	540	23	328	0	165	265	1,612	8,188
COOLING TOWERS	20C	23	177,399	0	268	0	0	434	85	4,971	183,181
PROCESS WATER STORAGE TANK	20H	0	47	0	0	8,100	0	0	182	928	9,257
RAILROAD SCALE HOUSE	24A	0	4	0	0	360	0	0	3	67	433
BOILER PLANT/WATER PLANT COMPLEX TOTAL		2,163	239,243	6,611	446	16,446	0	5,457	1,054	11,952	283,371
BUILDING 4A											
GREEN SALT PLANT	4A	5,844	82,467	8,873	195	0	0	5,017	866	11,907	115,168
EAST WAREHOUSES COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	521	224	0	0	0	0	0	35	347	1,127
TRUCK SCALE	22C	0	3	0	0	0	0	0	0	0	3
FINISHED PRODUCTS WAREHOUSE(4A)	77	205	762	0	84	0	0	0	88	144	1,284
PLANT 6 WAREHOUSE	79	171	696	0	74	0	0	0	64	96	1,101
RECEIVING/INCOMING MATERIALS INSPECTION	82	122	791	33	64	2,400	0	55	63	427	3,956
EAST WAREHOUSES COMPLEX TOTAL		1,020	2,477	34	222	2,400	0	55	251	1,014	7,472
ELECTRICAL STATION COMPLEX											
MAIN ELECTRICAL STATION	16A	98	4,152	0	0	1,836	0	0	23	414	6,523
ELECTRICAL SUBSTATION	16B	3	1,785	97	21	884	0	0	0	210	3,000
ELECTRICAL PANELS AND TRANSFORMER	16C	0	96	0	0	0	0	0	23	138	257
MAIN ELECTRICAL SWITCH HOUSE	16D	3	492	51	0	758	0	16	23	120	1,462
MAIN ELECTRICAL TRANSFORMERS	16E	0	9,847	0	0	0	0	0	23	120	9,990
TRAILER SUBSTATION #1	16F	3	204	0	1	0	0	0	0	0	208
TRAILER SUBSTATION #2	16G	2	208	0	1	0	0	0	0	0	211
MAIN ELECTRICAL STRAINER HOUSE	26C	1	61	6	0	267	0	5	26	120	485
ENGINE HOUSE/GARAGE	31A	127	794	43	0	4,527	0	0	40	2,312	7,843
HEAVY EQUIPMENT BUILDING	46	220	502	15	62	1,040	0	48	60	784	2,731
ELECTRICAL STATION COMPLEX TOTAL		456	18,140	211	85	9,312	0	70	217	4,216	32,708
EXTERNAL COMPLEX											
SKEET RANGE BUILDING	28F	0	22	0	2	0	0	0	0	0	24
SEWAGE TREATMENT PLANT INCINERATOR	39D	10	643	0	0	203	0	189	23	112	1,179
DECONTAMINATION BUILDING	69	156	401	28	17	5,625	0	0	116	1,513	7,855
EXTERNAL COMPLEX TOTAL		165	1,065	28	19	5,828	0	189	139	1,625	9,058
GENERAL SUMP COMPLEX											
GENERAL SUMP	18B	65	1,876	0	2	0	0	0	230	713	2,886
BIODENITRIFICATION TOWERS	18D	557	6,003	585	70	0	0	107	192	4,032	11,545
BDN EFFLUENT TREATMENT FACILITY	18H	9	34,217	3,790	14	0	0	0	68	758	38,855
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	113	6,464	703	9	177	0	172	77	1,316	9,030
BULK LIME HANDLING BUILDING	2C	31	2,126	233	0	0	0	91	41	248	2,770
MAINTENANCE BUILDING	3A	96	8,823	959	10	0	0	440	84	1,728	12,139
REFINERY SUMP	3H	65	13,106	0	0	0	0	0	136	370	13,677
ELECTRICAL POWER CENTER BUILDING	3L	51	5,518	578	0	0	0	277	69	1,160	7,654
GENERAL SUMP COMPLEX TOTAL		986	78,133	6,848	104	177	0	1,087	896	10,325	98,555
LABORATORY COMPLEX											
LABORATORY	15A	893	33,073	3,126	561	84,815	0	4,363	2,220	27,054	156,105
LABORATORY CHEMICAL STORAGE BUILDING	15B	13	541	0	10	869	0	0	10	4	1,448
LABORATORY COMPLEX TOTAL		906	33,614	3,126	572	85,684	0	4,363	2,230	27,058	157,552
LIQUID STORAGE COMPLEX											
BDN SURGE LAGOON	18A	6	261	0	0	486	0	0	12	0	765
METHANOL TANK	18J	18	48	0	0	324	0	0	9	20	419
LOW NITRATE TANK	18K	8	459	0	0	0	0	0	5	20	492
HIGH NITRATE TANK	18L	8	459	0	0	0	0	0	6	24	497
WELL HOUSE #1	20E	0	61	6	0	299	0	0	20	147	533
WELL HOUSE #2	20F	0	72	7	0	301	0	0	20	147	546
WELL HOUSE #3	20G	2	340	37	2	395	0	0	18	180	974
GAS METER BUILDING	22A	2	41	3	0	579	0	0	20	134	779
STORM SEWER LIFT STATION	22B	2	252	27	2	255	0	0	25	98	661
SCALE HOUSE AND WEIGH SCALE	22D	3	14	0	0	0	0	16	18	96	147
PUMP HOUSE-HP FIRE PROTECTION	26A	168	547	54	4	5,813	0	0	38	496	7,121
ELEVATED WATER STORAGE TANK	26B	1,763	480	0	0	540	0	0	66	135	2,985
RUST ENGINEERING BUILDING	45A	169	2,396	0	111	3,026	0	513	188	489	6,891
UTILITY SHED EAST OF RUST TRAILERS	45B	0	6	0	0	0	0	0	18	170	194
LIQUID STORAGE COMPLEX TOTAL		2,149	5,438	134	119	12,018	0	528	464	2,154	23,005
MAINTENANCE COMPLEX											
MAIN MAINTENANCE BUILDING	12A	1,454	8,855	718	82	26,554	0	5,426	295	19,214	62,598
CYLINDER STORAGE BUILDING	12B	13	41	0	83	1,556	0	0	29	542	2,264
LUMBER STORAGE BUILDING	12C	24	28	0	12	0	0	0	16	196	276
MAINTENANCE BUILDING WAREHOUSE	12D	53	257	0	34	0	0	0	53	1,634	2,031
RAILROAD ENGINE HOUSE	24B	12	141	7	0	1,733	0	0	30	470	2,395
PROPANE STORAGE	38A	11	415	38	0	1,421	0	0	93	288	2,266
CYLINDER FILLING STATION	38B	2	2,022	0	1	0	0	0	57	279	2,361
MAINTENANCE COMPLEX TOTAL		1,570	11,760	763	212	31,264	0	5,426	574	22,623	74,191

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
MISCELLANEOUS COMPLEX											
10-PLEX NORTH SUBSTATION	16H	0	840	0	0	0	0	0	0	0	840
10-PLEX SOUTH SUBSTATION	16J	0	840	0	0	0	0	0	0	0	840
STORM WATER RETENTION BASIN	18E	3	210	0	0	0	0	0	0	0	214
CLEARWELL PUMP HOUSE	18G	2	115	8	0	0	0	23	1	195	345
METEOROLOGICAL TOWER	23	8	36	0	0	0	0	0	0	0	44
10-PLEX SEWAGE LIFT STATION	25J	0	80	0	0	0	0	0	0	0	80
GUARD POST ON SOUTH END OF 'D' STREET (1)	28C	6	4	0	0	67	0	0	23	134	233
GUARD POST ON WEST END OF 2ND STREET	28D	0	11	0	0	0	0	0	23	214	247
GUARD POST EAST OF T-81	28E	2	6	0	1	0	0	0	0	51	61
GUARD POST SOUTH OF BUILDING 51	28G	1	9	0	1	0	0	0	0	50	61
UTILITY LINES	G-004	0	16,282	312	0	0	0	0	10,284	0	26,878
PROCESS TRAILERS	G-005	0	0	0	0	0	0	0	0	71,136	71,136
NON-PROCESS TRAILERS	G-007	0	0	0	0	0	0	0	0	305,136	305,136
PIPE BRIDGES	G-008	2,252	0	0	0	351	0	0	0	0	2,613
MISCELLANEOUS COMPLEX TOTAL		2,285	18,433	320	3	418	0	23	10,331	376,916	408,728
OU5 REMEDIAL ACTION COMPLEX											
HIGH NITRATE STORAGE TANK	18M	0	151	0	0	2,160	0	0	3	0	2,314
DISSOLVED OXYGEN BUILDING	18P	9	15,265	1,636	9	0	0	0	5	460	17,384
IAWWT VALVE HOUSE	18Q	20	5,084	501	13	0	0	0	50	777	6,445
PILOT PLANT AMMONIA TANK FARM	19B	31	6,158	0	0	1,268	0	0	14	0	7,471
SIX TO FOUR REDUCTION FACILITY #2	51	1,420	135,013	15,001	0	29,335	0	0	0	0	180,769
OU5 REMEDIAL ACTION COMPLEX TOTAL		1,480	161,670	17,139	22	32,763	0	0	72	1,238	214,382
PILOT PLANT COMPLEX											
PILOT PLANT WET SIDE	13A	170	16,754	1,809	13	10,429	0	407	457	3,958	33,997
PILOT PLANT MAINTENANCE BUILDING	13B	12	237	12	0	3,366	0	16	27	682	4,350
SUMP PUMP HOUSE	13C	4	306	33	1	333	0	0	35	135	848
PILOT PLANT THORIUM TANK FARM	13D	0	9,692	0	0	0	0	0	65	215	9,972
PILOT PLANT ANNEX	37	144	10,610	1,137	0	6,200	0	0	100	1,834	20,026
SIX TO FOUR REDUCTION FACILITY #1	54A	566	25,624	2,815	110	10,478	0	391	485	5,560	46,030
PILOT PLANT SHELTER	54B	24	113	0	14	0	0	0	141	741	1,034
PILOT PLANT DISSOCIATOR SHELTER	54C	24	1,525	164	47	0	0	0	21	20	1,801
PILOT PLANT WAREHOUSE	68	154	372	0	6	810	0	366	52	439	2,199
PILOT PLANT COMPLEX TOTAL		1,100	65,233	5,970	190	31,616	0	1,180	1,383	13,585	120,256
PLANT 1 COMPLEX											
PREPARATION PLANT	1A	1,647	40,300	4,325	339	5,019	0	2,757	1,290	9,924	65,600
PLANT 1 STORAGE SHELTER	1B	124	69	0	32	0	0	0	40	336	602
CHEMICAL WAREHOUSE	30A	620	1,156	0	1	320	0	1,871	167	3,144	7,279
DRUM STORAGE WAREHOUSE	30B	8	80	0	5	0	0	0	21	129	242
CP STORAGE WAREHOUSE	56A	134	301	0	53	0	0	11	71	933	1,503
STORAGE SHED (WEST)	56B	0	17	0	4	0	0	0	31	303	355
STORAGE SHED (EAST)	56C	0	17	0	6	0	0	0	24	323	370
QUONSET HUT #1	60	46	148	0	17	0	0	0	9	54	274
QUONSET HUT #2	61	25	106	0	14	0	0	0	11	70	226
QUONSET HUT #3	62	25	106	0	14	0	0	333	6	43	527
KC-2 WAREHOUSE	63	371	899	0	0	9,146	0	50	106	7,211	17,782
DRUM RECONDITIONING BUILDING	66	51	5,463	580	24	0	0	21	127	619	6,884
PLANT 1 THORIUM WAREHOUSE	67	117	157	0	24	0	0	0	52	411	760
GENERAL IN-PROCESS WAREHOUSE	71	231	569	0	0	5,376	0	0	104	6,565	12,845
DRUM STORAGE BUILDING	72	51	64	0	0	0	0	113	48	280	556
TENSION SUPPORT STRUCTURE #4	TS-004	408	764	0	0	0	0	0	33	335	1,541
TENSION SUPPORT STRUCTURE #5	TS-005	408	797	0	0	0	0	0	33	335	1,574
TENSION SUPPORT STRUCTURE #6	TS-006	45	129	0	0	0	0	0	11	74	259
PLANT 1 COMPLEX TOTAL		4,312	51,138	4,905	534	19,860	0	5,156	2,184	31,089	119,179
PLANT 2 COMPLEX											
ORE REFINERY PLANT	2A	3,718	139,030	14,842	252	8,889	400	4,061	813	11,592	183,597
METAL DISSOLVER BUILDING	2D	134	8,733	912	4	0	0	347	142	1,855	12,127
NFS STORAGE AND PUMP HOUSE	2E	3	7,232	0	0	518	0	0	120	255	8,128
COLD SIDE ORE CONVEYOR	2F	44	6,171	0	1	0	0	91	42	207	6,557
HOT SIDE ORE CONVEYOR	2G	39	8,038	0	0	0	0	62	41	178	8,357
WASTE OIL DECANT SHELTER	39B	24	18	1	3	0	0	0	14	64	124
PLANT 2 COMPLEX TOTAL		3,953	169,221	15,755	260	9,407	400	4,561	1,172	14,150	218,891
PLANT 3 COMPLEX											
INCINERATOR BUILDING	39A	186	365	18	0	0	0	568	94	1,007	2,239
INCINERATOR SPRINKLER RISER HOUSE	39C	2	316	6	0	241	0	0	17	90	672
OZONE BUILDING	3B	31	45	1	0	0	0	119	36	193	425
NAR CONTROL HOUSE	3C	71	8,012	0	0	0	0	407	89	1,637	10,217
NAR TOWERS	3D	380	42,257	0	2	0	0	18	331	637	43,626
HOT RAFFINATE BUILDING	3E	195	22,790	2,479	17	5,940	0	543	229	928	33,121
HARSHAW DIGESTION FUME RECOVERY	3F	122	1,140	0	1	0	0	0	55	195	1,514
REFRIGERATION BUILDING	3G	21	914	98	6	0	0	130	30	531	1,730
COMBINED RAFFINATE TANKS	3J	100	16,516	0	0	0	0	0	138	454	17,208
OLD COOLING WATER TOWER	3K	0	36	0	0	78	0	0	37	195	347
PLANT 3 COMPLEX TOTAL		1,109	92,392	2,603	25	6,259	0	1,786	1,057	5,866	111,098
PLANT 5 COMPLEX											
PLANT 4 WAREHOUSE	4B	166	458	0	66	0	0	0	89	424	1,203
SLAG RECYCLING BUILDING	55A	310	6,193	660	16	0	0	501	116	2,149	9,945
SLAG RECYCLING PIT/ELEVATOR	55B	56	482	50	5	0	0	100	40	143	877
METALS PRODUCTION PLANT	5A	5,088	174,751	18,916	477	19,243	0	6,693	1,653	16,797	243,620
PLANT 5 INGOT PICKLING	5B	59	2,597	277	12	0	0	0	65	239	3,248
PLANT 5 ELECTRICAL SUBSTATION	5C	8	776	78	3	0	0	0	48	150	1,063
WEST DERBY BREAKOUT/ SLAG MILLING	5D	1,553	22,336	2,410	83	223	0	0	267	777	27,648
PLANT 5 FILTER BUILDING	5E	38	93	0	20	0	0	0	27	264	442
PLANT 5 COVERED STORAGE PAD	5F	143	219	0	27	0	0	0	30	280	699
PLANT 5 INGOT STORAGE SHELTER	5G	26	33	0	7	0	0	0	8	69	143
PLANT 5 COMPLEX TOTAL		7,446	207,938	22,390	716	19,466	0	7,294	2,343	21,293	288,888
PLANT 6 COMPLEX											
METALS FABRICATION PLANT	6A	5,453	187,559	20,184	518	8,652	0	10,793	1,288	6,830	241,278
PLANT 6 COVERED STORAGE AREA	6B	44	19	0	9	0	0	0	32	104	207
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	12	67	5	12	0	0	0	49	155	300
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	6	34	0	8	0	0	0	40	123	211
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	12	568	61	12	0	0	0	48	155	856
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	20	2,211	242	11	0	0	0	251	274	3,010
PLANT 6 SUMP BUILDING	6G	369	9,343	1,009	42	216	0	57	219	1,901	13,156
PLANT 6 COMPLEX TOTAL		5,917	199,801	21,500	613	8,868	0	10,851	1,927	9,543	259,019

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
PLANT 8 COMPLEX											
PLANT 8 WAREHOUSE	8O	102	304	0	53	0	0	0	92	386	937
RECOVERY PLANT	8A	2,349	53,634	6,768	181	7,104	0	3,409	1,409	16,786	101,639
PLANT 8 MAINTENANCE BUILDING	8B	34	122	2	0	2,450	0	117	60	785	3,571
ROTARY KILN/DRUM RECONDITIONING	8C	1,557	34,468	3,760	189	3,800	0	0	132	6,817	50,724
PLANT 8 RAILROAD FILTER BUILDING	8D	4	45	4	1	0	0	0	13	48	115
DRUM CONVEYOR SHELTER	8E	24	29	0	3	0	0	0	9	48	113
PLANT 8 OLD DRUM WASHER	8F	0	0	0	2	0	0	0	10	32	44
PLANT 8 COMPLEX TOTAL		4,070	98,602	10,534	430	13,354	0	3,526	1,725	24,902	157,142
REMOVAL ACTION 19 (2)											
PLANT 4 MAINTENANCE BUILDING	4C	104	2,692	279	1	0	0	288	7	47	3,417
REMOVAL ACTION 7											
TENSION SUPPORT STRUCTURE #1 (1)	TS-001	184	387	0	0	0	0	0	28	227	826
TENSION SUPPORT STRUCTURE #2 (1)	TS-002	276	135	0	0	0	0	0	36	305	752
TENSION SUPPORT STRUCTURE #3 (1)	TS-003	53	71	0	0	0	0	0	8	66	198
REMOVAL ACTION 7 TOTAL		513	593	0	0	0	0	0	72	598	1,776
SEWAGE TREATMENT PLANT COMPLEX											
CHLORINATION BUILDING	25A	0	100	8	0	462	0	0	8	92	669
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	159	15	1	0	0	0	8	40	223
SEWAGE LIFT STATION BUILDING	25C	4	99	10	2	529	0	0	9	123	776
U.V. DISINFECTION BUILDING	25D	0	139	13	0	335	0	0	10	40	538
DIGESTER AND CONTROL BUILDING	25E	30	392	37	2	3,828	0	0	39	261	4,590
SEWAGE TREATMENT PLANT COMPLEX TOTAL		35	890	83	6	5,153	0	0	74	556	6,796
TANK FARM COMPLEX											
MAIN TANK FARM	19A	221	21,241	0	0	2,430	0	0	140	327	24,358
TANK FARM CONTROL HOUSE	19C	12	323	29	2	1,300	0	28	14	545	2,254
OLD NORTH TANK FARM	19D	0	12,000	0	0	486	0	0	59	311	12,856
TANK FARM LIME SLITTER BUILDING	19E	28	585	60	6	0	0	0	22	104	805
TANK FARM COMPLEX TOTAL		261	34,149	89	9	4,216	0	28	234	1,286	40,273
THORIUM/PLANT 9 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	99	311	0	2	5,023	0	0	40	1,791	7,267
BUILDING 32 COVERED LOADING DOCK	32B	17	19	0	0	0	0	0	3	293	332
THORIUM WAREHOUSE	64	197	1,423	0	106	1,200	0	25	74	1,489	4,514
(OLD) PLANT 5 WAREHOUSE	65	269	640	0	72	0	0	0	54	789	1,824
BUILDING 65 WEST PAD	74L	0	0	0	0	2,714	0	0	0	0	2,714
D & D BUILDING	78	239	4,333	418	49	8,160	0	44	88	4,951	18,291
PLANT 9 WAREHOUSE	81	81	376	0	40	0	0	0	49	120	665
SPECIAL PRODUCTS PLANT	9A	2,010	63,984	6,816	441	233	0	3,599	1,011	13,365	91,460
PLANT 9 SUMP TREATMENT FACILITY	9B	33	852	92	4	81	0	161	46	524	1,794
PLANT 9 DUST COLLECTOR	9C	6	46	0	3	0	0	0	14	32	102
PLANT 9 SUBSTATION	9D	18	112	0	0	0	0	221	10	700	1,060
PLANT 9 CYLINDER SHED	9E	1	0	0	0	0	0	6	3	16	26
ELECTROSTATIC PRECIPITATOR	9F	4	65	3	3	0	0	12	15	48	152
THORIUM/PLANT 9 COMPLEX TOTAL		2,975	72,160	7,330	721	17,411	0	4,068	1,406	24,128	130,199

AT-GRADE AND BELOW-GRADE COMPLEXES

COMPONENT DESCRIPTION	COMPONENT	A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 1 COMPLEX											
DECONTAMINATION BUILDING	69	0	0	0	0	5,122	958	0	0	0	6,080
DECONTAMINATION PAD	74P	0	0	0	0	32,883	0	0	0	0	32,883
BUILDING 69 GRID	GRID 1	110	480	0	0	646	0	30	0	2,038	3,303
GRID 1 COMPLEX TOTAL		110	480	0	0	38,651	958	30	0	2,038	42,266
GRID 10 COMPLEX											
BOILER PLANT	10A	0	0	0	0	65,545	0	9	0	4	65,558
BOILER PLANT MAINTENANCE BUILDING	10B	0	0	0	0	2,392	0	7	0	0	2,398
WET SALT STORAGE BIN	10C	0	0	0	0	3,924	0	0	0	0	3,924
CONT. OIL/GRAPHITE BURN PAD	10D	0	0	0	0	1,942	0	0	0	0	1,942
WATER PLANT	20B	0	0	0	0	21,379	0	0	0	0	21,379
PROCESS WATER STORAGE TANK	20H	0	0	0	0	5,200	0	0	0	0	5,200
PROPANE STORAGE	38A	0	0	0	0	1,601	0	0	0	1	1,602
CYLINDER FILLING STATION	38B	0	0	0	0	140	0	0	0	0	140
BUILDING 10, 20, 38 GRID	GRID 10	217	1,590	581	0	3,612	0	18	0	2,013	8,031
GRID 10 COMPLEX TOTAL		217	1,590	581	0	105,734	0	34	0	2,018	110,174
GRID 11 COMPLEX											
MAIN MAINTENANCE BUILDING	12A	0	0	0	0	35,770	67	44	0	27	35,908
CYLINDER STORAGE BUILDING	12B	0	0	0	0	7,884	0	0	0	0	7,884
LUMBER STORAGE BUILDING	12C	0	0	0	0	2,254	0	0	0	0	2,254
MAINTENANCE BUILDING WAREHOUSE	12D	0	0	0	0	5,619	0	0	0	0	5,619
COAL PILE RUNOFF BASIN	18C	0	0	0	0	2,826	0	0	0	0	2,826
MAIN TANK FARM	19A	0	0	0	0	42,141	0	11	0	0	42,153
TANK FARM CONTROL HOUSE	19C	0	0	0	0	4,217	0	0	0	0	4,217
OLD NORTH TANK FARM	19D	0	0	0	0	1,539	0	0	0	0	1,539
TANK FARM LIME SLITTER BUILDING	19E	0	0	0	0	245	0	0	0	0	245
PUMP STATION AND POWER CENTER	20A	0	0	0	0	1,553	0	0	0	1	1,554
COOLING TOWERS	20C	0	0	0	0	9,195	0	0	0	0	9,195
RAILROAD ENGINE HOUSE	24B	0	0	0	0	2,483	0	0	0	0	2,483
BUILDING 12 NORTH PAD	74N	0	0	0	0	3,269	0	0	0	0	3,269
BUILDING 12, 19, 20 GRID	GRID 11	59	2,430	731	0	10,563	0	34	0	1,111	14,929
GRID 11 COMPLEX TOTAL		59	2,430	731	0	129,559	67	90	0	1,139	134,074
GRID 12 COMPLEX											
SLAG RECYCLING BUILDING	55A	0	0	0	0	2,713	0	0	0	3	2,716
SLAG RECYCLING PIT/ELEVATOR	55B	0	0	0	0	2,785	0	0	0	0	2,785
METALS PRODUCTION PLANT	5A	0	23	88	0	56,397	0	23	0	0	56,532
PLANT 5 INGOT PICKLING	5B	0	0	0	0	3,243	0	0	0	0	3,243
PLANT 5 ELECTRICAL SUBSTATION	5C	0	0	0	0	925	0	0	0	0	925
WEST DERBY BREAKOUT/ SLAG MILLING	5D	0	0	0	0	11,002	0	0	0	0	11,002
PLANT 5 FILTER BUILDING	5E	0	0	0	0	3,825	0	0	0	0	3,825
PLANT 5 COVERED STORAGE PAD	5F	0	0	0	0	8,500	0	0	0	0	8,500
PLANT 5 INGOT STORAGE SHELTER	5G	0	0	0	0	1,359	0	0	0	0	1,359
PLANT 5 EAST PAD	74G	0	0	0	0	2,346	0	0	0	0	2,346
PLANT 5 SOUTH PAD	74H	0	0	0	0	1,500	0	0	0	0	1,500
BUILDING 5 GRID	GRID 12	0	1,210	354	0	7,215	0	29	0	78	8,886
GRID 12 COMPLEX TOTAL		0	1,233	442	0	101,810	0	53	0	81	103,619

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 13 COMPLEX											
GREEN SALT PLANT	4A	28	1	0	0	59,418	48	10	0	7	59,512
PLANT 4 WAREHOUSE	4B	10	0	0	0	15,357	0	0	0	0	15,367
PLANT 4 MAINTENANCE BUILDING	4C	0	0	0	0	3,322	0	2	0	0	3,324
PLANT 4 PAD	74E	0	0	0	0	8,527	0	0	0	0	8,527
PLANT 7 PAD	74F	0	0	0	0	872	0	0	0	0	872
PLANT 7	7A	0	11	0	0	386,981	0	0	0	0	386,992
BUILDING 4, 7 GRID	GRID 13	0	1,204	520	0	20,625	0	64	0	10	22,422
GRID 13 COMPLEX TOTAL		38	1,215	520	0	495,101	48	77	0	17	497,016
GRID 14 COMPLEX											
SERVICE BUILDING	11	0	435	0	0	47,293	0	10	0	0	47,739
ADMINISTRATION BUILDING	14A	0	26	0	0	16,836	0	190	0	5	17,056
BUILDING 14 EOC GENERATOR SET	14B	0	0	0	0	87	0	0	0	0	87
ELECTRICAL SUBSTATION	16B	0	0	0	0	851	0	0	0	0	851
STORM SEWER LIFT STATION	22B	0	0	0	0	241	0	0	0	0	241
SECURITY BUILDING	28A	0	0	0	0	6,881	0	26	0	0	6,907
HUMAN RESOURCES BUILDING	28B	0	0	0	0	6,921	0	275	0	0	7,196
HEALTH AND SAFETY BUILDING	53A	0	73	0	0	48,226	0	410	0	4	48,713
IN-VIVO BUILDING	53B	0	0	0	0	12,200	0	0	0	0	12,200
BUILDING 11, 14, 28, 53 GRID	GRID 14	0	3,218	1,403	0	5,303	0	83	0	49	10,056
GRID 14 COMPLEX TOTAL		0	3,752	1,403	0	144,840	0	994	0	58	151,046
GRID 15 COMPLEX											
GUARD POST EAST OF T-81	28E	0	0	0	0	150	0	0	0	0	150
WEST PARKING LOT GRID	GRID 15	0	263	0	0	230	0	85	0	62	641
GRID 15 COMPLEX TOTAL		0	263	0	0	380	0	85	0	62	791
GRID 16 COMPLEX											
RAILROAD SCALE HOUSE	24A	0	0	0	0	4,080	0	0	0	0	4,080
QUONSET HUT #1	60	0	0	0	0	15,675	0	0	0	0	15,675
QUONSET HUT #2	61	0	0	0	0	2,060	0	0	0	0	2,060
QUONSET HUT #3	62	0	0	0	0	3,458	0	0	0	0	3,458
BUILDING 60, 61, 62 GRID	GRID 16	132	168	0	0	2,866	0	14	0	2,446	5,625
GRID 16 COMPLEX TOTAL		132	168	0	0	28,139	0	14	0	2,446	30,898
GRID 17 COMPLEX											
CP STORAGE WAREHOUSE	56A	0	0	0	0	7,703	0	0	0	1	7,703
BUILDING 56, PLANT 1 PAD GRID	GRID 17	3,204	985	0	0	2,135	0	34	0	900	7,258
GRID 17 COMPLEX TOTAL		3,204	985	0	0	9,838	0	34	0	900	14,961
GRID 18 COMPLEX											
CHEMICAL WAREHOUSE	30A	0	4	0	0	18,083	0	2	0	0	18,089
BUILDING 30 GRID	GRID 18	92	2,118	515	0	62,364	0	13	0	1,702	66,804
GRID 18 COMPLEX TOTAL		92	2,122	515	0	80,447	0	15	0	1,702	84,893
GRID 19 COMPLEX											
GENERAL SUMP	18B	0	0	32	0	4,118	1,901	0	0	0	6,051
BIODENITRIFICATION TOWERS	18D	0	0	0	0	4,779	0	0	0	0	4,779
ORE REFINERY PLANT	2A	96	109	19	0	52,678	4,612	12	0	3	57,530
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	0	0	0	0	1,681	235	9	0	0	1,924
BULK LIME HANDLING BUILDING	2C	0	0	0	0	2,240	0	0	0	0	2,240
METAL DISSOLVER BUILDING	2D	0	0	0	0	3,065	325	0	0	0	3,390
COLD SIDE ORE CONVEYOR	2F	14	0	0	0	3,444	0	0	0	0	3,458
HOT SIDE ORE CONVEYOR	2G	0	0	0	0	1,042	0	0	0	0	1,042
INCINERATOR BUILDING	39A	0	0	0	0	2,481	0	0	0	0	2,481
WASTE OIL DECANT SHELTER	39B	0	0	0	0	6,732	0	0	0	0	6,732
INCINERATOR SPRINKLER RISER HOUSE	39C	0	0	0	0	63	0	0	0	0	63
MAINTENANCE BUILDING	3A	0	0	0	0	21,126	0	6	0	0	21,132
OZONE BUILDING	3B	0	0	0	0	1,440	0	0	0	0	1,440
NAR CONTROL HOUSE	3C	3	0	0	0	2,277	0	42	0	0	2,322
NAR TOWERS	3D	0	0	0	0	2,958	0	0	0	0	2,958
HOT RAFFINATE BUILDING	3E	0	0	0	0	13,965	248	0	0	0	14,213
HARSHAW DIGESTION FUME RECOVERY	3F	0	0	0	0	775	267	0	0	0	1,041
REFRIGERATION BUILDING	3G	3	0	0	0	847	0	0	0	0	850
REFINERY SUMP	3H	0	0	0	0	156	853	0	0	0	1,009
COMBINED RAFFINATE TANKS	3J	0	0	0	0	4,493	2,197	0	0	0	6,690
OLD COOLING WATER TOWER	3K	0	0	0	0	660	0	0	0	0	660
ELECTRICAL POWER CENTER BUILDING	3L	19	0	0	0	1,336	0	0	0	0	1,355
PLANT 2 EAST PAD	74A	0	0	0	0	3,862	0	0	0	0	3,862
PLANT 2 WEST PAD	74B	0	0	0	0	5,500	0	0	0	0	5,500
BUILDING 39A PAD	74W	0	0	0	0	2,750	0	0	0	0	2,750
BUILDING 2, 3 GRID	GRID 19	31	3,498	2,527	0	16,836	0	51	0	572	23,514
GRID 19 COMPLEX TOTAL		165	3,607	2,579	0	161,306	10,638	119	0	575	178,988
GRID 2 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	0	4	0	0	10,188	0	0	0	0	10,193
BUILDING 32 COVERED LOADING DOCK	32B	0	0	0	0	2,065	0	0	0	0	2,065
THORIUM WAREHOUSE	64	0	5	0	0	13,732	0	0	0	4	13,741
(OLD) PLANT 5 WAREHOUSE	65	0	0	0	0	8,139	0	0	0	0	8,139
BUILDING 65 WEST PAD	74L	0	0	0	0	11,283	0	0	0	0	11,283
BUILDING 64 EAST PAD & R.R. DOCK	74M	0	0	0	0	12,103	0	0	0	0	12,103
D & D BUILDING	78	0	0	0	0	5,672	0	0	0	0	5,672
BUILDING 32, 64, 65, 78 GRID	GRID 2	52	877	0	0	2,221	0	28	0	483	3,661
GRID 2 COMPLEX TOTAL		52	886	0	0	65,404	0	28	0	487	66,857
GRID 20 COMPLEX											
BDN EFFLUENT TREATMENT FACILITY	18H	0	0	0	0	1,352	0	0	0	0	1,352
PLANT 8 EAST PAD	74C	0	0	0	0	7,236	0	0	0	0	7,236
PLANT 8 WEST PAD	74D	0	0	0	0	4,922	0	0	0	0	4,922
PLANT 8 OLD METAL DISSOLVER PAD	74Q	0	0	0	0	850	437	0	0	0	1,287
PLANT 8 NORTH PAD	74R	0	0	0	0	2,054	0	0	0	0	2,054
PLANT 8 WAREHOUSE	80	0	0	0	0	11,365	0	0	0	0	11,365
RECOVERY PLANT	8A	0	133	6	0	40,339	0	41	0	0	40,519
PLANT 8 MAINTENANCE BUILDING	8B	0	0	0	0	1,407	0	3	0	0	1,411
ROTARY KILN/DRUM RECONDITIONING	8C	0	0	0	0	25,448	0	0	0	0	25,448
PLANT 8 RAILROAD FILTER BUILDING	8D	325	0	0	0	7,579	0	0	0	0	7,904
DRUM CONVEYOR SHELTER	8E	0	0	0	0	200	0	0	0	0	200
BUILDING 8, 80 GRID	GRID 20	16	1,403	1,493	0	10,986	0	55	0	289	14,241
GRID 20 COMPLEX TOTAL		341	1,536	1,499	0	113,738	437	100	0	289	117,939

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY									COMPONENT/ COMPLEX TOTALS
		A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	
GRID 21 COMPLEX											
LABORATORY	15A	0	597	24	0	96,784	0	797	0	47	98,249
LABORATORY CHEMICAL STORAGE BUILDING	15B	0	0	0	0	617	0	0	0	0	617
LABORATORY PAD	74V	0	0	0	0	1,347	0	0	0	0	1,347
BUILDING 15 GRID	GRID 21	0	1,252	501	0	570	0	16	0	2	2,340
GRID 21 COMPLEX TOTAL		0	1,850	524	0	99,317	0	813	0	48	102,553
GRID 22 COMPLEX											
NORTHWEST CORNER OF SITE GRID	GRID 22	84	155	0	0	344	0	11	0	1,558	2,153
GRID 23 COMPLEX											
EAST OF BUILDING 56 GRID	GRID 23	1,224	221	0	0	18	0	5	0	340	1,808
GRID 24 COMPLEX											
GUARD POST ON WEST END OF 2ND STREET	28D	0	0	0	0	24	0	0	0	0	24
PLANT 1 THORIUM WAREHOUSE	67	0	0	0	0	2,560	0	0	0	0	2,560
BUILDING 67 GRID	GRID 24	39	651	21	0	213	0	13	0	713	1,651
GRID 24 COMPLEX TOTAL		39	651	21	0	2,797	0	13	0	713	4,235
GRID 25 COMPLEX											
WELL HOUSE #1	20E	0	0	0	0	80	0	0	0	0	80
WELL HOUSE #2	20F	0	0	0	0	80	0	0	0	0	80
SCALE HOUSE AND WEIGH SCALE	22D	0	0	0	0	1,910	0	0	0	0	1,910
PUMP HOUSE-HP FIRE PROTECTION	26A	0	0	0	0	1,442	0	0	0	0	1,442
ELEVATED WATER STORAGE TANK	26B	0	0	0	0	8,814	0	0	0	0	8,814
RUST ENGINEERING BUILDING	45A	0	2	0	0	16,480	0	133	0	0	16,615
BUILDING 45, WEST WATER TOWER(26B) GRID	GRID 25	48	1,655	808	0	11,450	0	33	0	883	14,877
GRID 25 COMPLEX TOTAL		48	1,657	808	0	40,257	0	166	0	883	43,818
GRID 26 COMPLEX											
PILOT PLANT WET SIDE	13A	0	14	55	0	19,230	3,611	0	0	0	22,909
PILOT PLANT MAINTENANCE BUILDING	13B	0	0	0	0	2,508	0	4	0	0	2,513
SUMP PUMP HOUSE	13C	0	0	0	0	1,725	0	0	0	0	1,725
PILOT PLANT THORIUM TANK FARM	13D	0	0	0	0	3,318	0	0	0	0	3,318
PILOT PLANT AMMONIA TANK FARM	19B	0	0	0	0	6,310	0	0	0	0	6,310
WELL HOUSE #3	20G	0	0	0	0	80	0	0	0	0	80
PILOT PLANT ANNEX	37	0	0	0	0	10,279	0	0	0	2	10,281
SIX TO FOUR REDUCTION FACILITY #2	51	0	1	298	0	21,778	0	0	0	29	22,106
SIX TO FOUR REDUCTION FACILITY #1	54A	0	0	0	0	8,760	0	17	0	0	8,777
PILOT PLANT SHELTER	54B	0	0	0	0	2,488	0	0	0	0	2,488
PILOT PLANT DISSOCIATOR SHELTER	54C	0	0	0	0	1,145	0	0	0	0	1,145
PILOT PLANT WAREHOUSE	68	56	0	0	0	3,850	0	2	0	0	3,908
PILOT PLANT PAD	74U	0	0	0	0	3,136	0	0	0	0	3,136
BUILDING 51, 68, PILOT PLANT GRID	GRID 26	80	883	303	0	3,118	0	37	0	1,472	5,893
GRID 26 COMPLEX TOTAL		136	898	655	0	87,726	3,611	60	0	1,503	94,589
GRID 27 COMPLEX											
PREPARATION PLANT	1A	0	35	98	0	20,014	0	18	0	5	20,170
PLANT 1 STORAGE SHELTER	1B	0	0	0	0	13,101	0	0	0	0	13,101
PLANT 1 ORE SILOS	1C	0	0	0	0	7,745	0	0	0	0	7,745
NFS STORAGE AND PUMP HOUSE	2E	0	0	0	0	479	0	0	0	0	479
CONVEYOR TUNNEL (FROM PLANT 1)	2H	0	0	0	0	2,157	0	0	0	12	2,169
DRUM STORAGE WAREHOUSE	30B	0	0	0	0	355	0	0	0	0	355
DRUM RECONDITIONING BUILDING	66	0	0	0	0	3,680	0	12	0	0	3,692
GENERAL IN-PROCESS WAREHOUSE	71	0	0	0	0	19,705	0	0	0	0	19,705
DRUM STORAGE BUILDING	72	0	0	0	0	1,317	0	0	0	0	1,317
PLANT 1 STORAGE PAD	74T	0	0	0	0	278,667	0	0	0	0	278,667
BUILDING 1, 66, 71, 72 GRID	GRID 27	0	1,200	173	0	2,659	0	43	0	26	4,101
GRID 27 COMPLEX TOTAL		0	1,235	272	0	349,880	0	73	0	42	351,502
GRID 28 COMPLEX											
GUARD POST SOUTH OF BUILDING 51	28G	0	0	0	0	150	0	0	0	0	150
SOUTH OF PILOT PLANT GRID	GRID 28	0	7	0	0	54	0	20	0	1	82
GRID 28 COMPLEX TOTAL		0	7	0	0	204	0	20	0	1	232
GRID 29 COMPLEX											
10-PLEX NORTH SUBSTATION	16H	0	0	0	0	218	0	0	0	0	218
10-PLEX SOUTH SUBSTATION	16J	0	0	0	0	218	0	0	0	0	218
10-PLEX SEWAGE LIFT STATION	25J	0	0	0	0	246	0	0	0	0	246
SOUTH OF BUILDING 15 GRID	GRID 29	0	270	0	0	24	0	32	0	68	395
GRID 29 COMPLEX TOTAL		0	270	0	0	705	0	32	0	68	1,075
GRID 3 COMPLEX											
PLANT 9 PAD	74K	0	0	0	0	5,103	0	0	0	0	5,103
FINISHED PRODUCTS WAREHOUSE(4A)	77	0	0	0	0	14,225	0	0	0	0	14,225
PLANT 9 WAREHOUSE	81	263	0	0	0	9,024	0	0	0	0	9,286
SPECIAL PRODUCTS PLANT	9A	0	269	116	0	52,855	1,651	15	0	15	54,920
PLANT 9 SUMP TREATMENT FACILITY	9B	0	0	0	0	1,646	0	0	0	0	1,646
PLANT 9 DUST COLLECTOR	9C	0	0	0	0	587	0	0	0	0	587
PLANT 9 SUBSTATION	9D	0	0	0	0	1,159	0	0	0	0	1,159
PLANT 9 CYLINDER SHED	9E	0	0	0	0	33	0	0	0	0	33
ELECTROSTATIC PRECIPITATOR	9F	0	0	0	0	494	0	0	0	0	494
BUILDING 9, 77, 81 GRID	GRID 3	61	1,801	126	0	6,435	0	36	0	567	9,025
GRID 3 COMPLEX TOTAL		324	2,070	242	0	91,560	1,651	51	0	582	96,479
GRID 30 COMPLEX											
STORM WATER RETENTION BASIN	18E	0	0	0	0	0	0	0	0	982	982
IAWWT VALVE HOUSE	18Q	0	0	0	0	1,892	0	0	0	0	1,892
METEOROLOGICAL TOWER	23	0	0	0	0	37	0	0	0	0	37
STORM WATER RETENTION BASINS GRID	GRID 30	0	2,909	0	0	17	0	26	0	7	2,958
GRID 30 COMPLEX TOTAL		0	2,909	0	0	1,945	0	26	0	989	5,869
GRID 31 COMPLEX											
BDN SURGE LAGOON	18A	0	0	0	0	0	0	0	0	827	827
CLEARWELL PUMP HOUSE	18G	0	0	0	0	209	0	0	0	0	209
METHANOL TANK	18J	0	0	0	0	1,354	0	0	0	0	1,354
LOW NITRATE TANK	18K	0	0	0	0	0	0	0	0	167	167
HIGH NITRATE TANK	18L	0	0	0	0	0	0	0	0	167	167
HIGH NITRATE STORAGE TANK	18M	0	0	0	0	9,483	0	0	0	0	9,483
UTILITY TRENCH TO PIT AREA	22E	234	0	0	0	42,000	0	0	0	0	42,234
SILO 4	35A	0	9	0	0	0	0	0	0	0	9
WASTE PITS GRID	GRID 31	239	2,385	1,363	0	92	0	0	0	4,415	8,494
GRID 31 COMPLEX TOTAL		473	2,394	1,363	0	53,137	0	0	0	5,576	62,944

TABLE B-2 OPERABLE UNIT 3 UNBULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY									COMPONENT/ COMPLEX TOTALS
		A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	
GRID 32 COMPLEX											
DISSOLVED OXYGEN BUILDING	18P	0	0	0	0	659	0	0	0	0	659
CHLORINATION BUILDING	25A	0	0	0	0	1,793	0	0	0	0	1,793
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	0	0	0	513	0	0	0	0	513
U.V. DISINFECTION BUILDING	25D	0	0	0	0	1,186	0	0	0	0	1,186
DIGESTER AND CONTROL BUILDING	25E	0	0	0	0	7,311	0	0	0	0	7,311
SLUDGE DRYING BEDS	25F	17	17	0	0	6,247	0	0	2	0	6,283
PRIMARY SETTLING BASINS	25G	4	44	0	0	6,876	0	0	0	0	6,925
TRICKLING FILTERS	25H	0	50	0	0	2,868	0	0	5	0	2,923
SEWAGE TREATMENT PLANT INCINERATOR	39D	0	0	0	0	500	0	0	0	0	500
SEWER TREATMENT GRID	GRID 32	0	1,513	109	0	695	0	36	0	2	2,354
GRID 32 COMPLEX TOTAL		22	1,625	109	0	26,648	0	36	7	2	30,448
GRID 33 COMPLEX											
FIRE BRIGADE TRAINING CENTER BLDG.	73A	0	0	0	0	1,294	0	0	0	0	1,294
BUILDING 73 GRID	GRID 33	0	150	0	0	59	0	13	0	0	222
GRID 33 COMPLEX TOTAL		0	150	0	0	1,353	0	13	0	0	1,516
GRID 4 COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	0	0	0	0	8,757	0	0	0	0	8,757
TRUCK SCALE	22C	22	0	0	0	0	0	0	0	0	22
PLANT 6 WAREHOUSE	79	0	0	0	0	13,052	0	0	0	3	13,055
RECEIVING/INCOMING MATERIALS INSPECTION	82	0	6	0	0	10,784	0	0	0	4	10,795
BUILDING 79, 82, EAST WATER TOWER(20D) GRID	GRID 4	0	1,209	0	0	6,394	0	46	0	5	7,653
GRID 4 COMPLEX TOTAL		22	1,215	0	0	38,988	0	46	0	12	40,282
GRID 5 COMPLEX											
EAST OF MAIN SUB-STATION GRID	GRID 5	0	453	276	0	26,545	0	30	0	0	27,305
GRID 6 COMPLEX											
GAS METER BUILDING	22A	0	0	0	0	349	0	0	0	0	349
METALS FABRICATION PLANT	6A	1,999	394	367	0	298,651	2,882	90	0	65	304,448
PLANT 6 COVERED STORAGE AREA	6B	0	0	0	0	984	0	0	0	0	984
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	0	0	0	0	416	0	0	0	0	416
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	0	0	0	0	940	0	0	0	0	940
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	0	0	0	0	598	0	0	0	0	598
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	13	0	0	0	1,113	0	0	0	0	1,126
PLANT 6 SUMP BUILDING	6G	0	0	0	0	12,822	0	0	0	0	12,822
PLANT 6 PADS	74J	0	0	0	0	1,525	0	0	0	0	1,525
BUILDING 6 GRID	GRID 6	0	2,265	769	0	22,679	0	57	0	12	25,782
GRID 6 COMPLEX TOTAL		2,012	2,659	1,135	0	340,077	2,882	147	0	77	348,989
GRID 7 COMPLEX											
MAIN ELECTRICAL STATION	16A	0	0	0	0	5,454	0	0	0	45	5,500
ELECTRICAL PANELS AND TRANSFORMER	16C	0	0	0	0	40	0	0	0	0	40
MAIN ELECTRICAL SWITCH HOUSE	16D	0	0	0	0	751	0	0	0	0	751
MAIN ELECTRICAL TRANSFORMERS	16E	0	0	0	0	564	0	0	0	0	564
TRAILER SUBSTATION #1	16F	0	0	0	0	79	0	0	0	0	79
TRAILER SUBSTATION #2	16G	0	0	0	0	79	0	0	0	0	79
SEWAGE LIFT STATION BUILDING	25C	0	0	0	0	3,058	0	0	0	0	3,058
MAIN ELECTRICAL STRAINER HOUSE	26C	0	0	0	0	248	0	0	0	0	248
GUARD POST ON SOUTH END OF 'D' STREET	28C	0	0	0	0	20	0	0	0	0	20
ENGINE HOUSE/GARAGE	31A	0	2	0	0	5,623	0	25	0	0	5,650
OLD TRUCK SCALE	31B	0	0	0	0	3,647	0	0	0	0	3,647
HEAVY EQUIPMENT BUILDING	46	0	45	0	0	16,114	0	4	0	0	16,163
BUILDING 31, 46, MAIN SUB-STATION GRID	GRID 7	0	1,259	272	0	4,487	0	47	0	53	6,119
GRID 7 COMPLEX TOTAL		0	1,307	272	0	40,163	0	76	0	99	41,916
GRID 8 AND 15 COMPLEX											
PARKING LOT	89	0	0	0	0	498,112	0	0	0	0	498,112
GRID 8 COMPLEX											
SKEET RANGE BUILDING	28F	0	0	0	0	150	0	0	0	0	150
EAST PARKING LOT GRID	GRID 8	0	305	0	0	1,317	0	53	0	6	1,681
GRID 8 COMPLEX TOTAL		0	305	0	0	1,467	0	53	0	6	1,831
GRID 9 COMPLEX											
UTILITIES HEAVY EQUIPMENT BUILDING	10E	0	0	0	0	2,262	0	0	0	0	2,262
KC-2 WAREHOUSE	63	613	0	0	0	21,986	0	5	0	0	22,603
BUILDING 63 WEST PAD	74S	0	0	0	0	1,606	0	0	0	0	1,606
BUILDING 63 GRID	GRID 9	337	807	0	0	1,975	0	23	0	3,113	6,255
GRID 9 COMPLEX TOTAL		949	807	0	0	27,829	0	28	0	3,113	32,726
MISCELLANEOUS AT/BELOW-GRADE COMPLEX											
ROADS	G-002	0	0	0	0	743,052	0	0	0	0	743,052
OPERABLE UNIT 3 TOTAL		51,392	1,741,083	149,471	6,055	4,530,511	20,692	71,326	32,423	703,452	7,316,405

NOTES:
(1) Component has been remediated.
(2) Does not include Plant 7 (7A) or Plant 7 Overhead Crane (7B) Quantities

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
ABOVE-GRADE COMPLEXES											
ADMINISTRATION COMPLEX											
SERVICE BUILDING	11	2,736	91,695	0	572	192,338	0	1,422	3,975	27,281	320,019
ADMINISTRATION BUILDING	14A	908	33,653	0	75	55,712	0	3,945	749	17,529	112,571
BUILDING 14 EOC GENERATOR SET	14B	0	949	0	0	0	0	0	0	0	949
SECURITY BUILDING	28A	170	2,417	0	33	10,631	0	0	118	5,911	19,281
HUMAN RESOURCES BUILDING	28B	3,924	3,238	0	61	4,157	0	1,107	228	6,272	18,987
HEALTH AND SAFETY BUILDING	53A	5,580	19,714	0	314	61,538	0	6,166	1,791	36,522	131,625
IN-VIVO BUILDING	53B	408	4,464	0	51	0	0	281	99	2,503	7,806
ADMINISTRATION COMPLEX TOTAL		13,726	156,130	0	1,106	324,377	0	12,921	6,960	96,019	611,238
BOILER PLANT/WATER PLANT COMPLEX											
BOILER PLANT	10A	30,059	191,386	20,859	233	7,124	0	5,880	1,255	5,519	262,325
BOILER PLANT MAINTENANCE BUILDING	10B	687	376	10	42	754	0	82	45	219	2,215
WET SALT STORAGE BIN	10C	120	61	7	0	2,077	0	0	32	148	2,445
UTILITIES HEAVY EQUIPMENT BUILDING	10E	204	222	2	26	0	0	0	17	464	935
PUMP STATION AND POWER CENTER	20A	930	1,243	116	8	0	0	243	287	1,044	3,870
WATER PLANT	20B	3,738	15,011	1,630	46	426	0	197	937	2,301	24,287
COOLING TOWERS	20C	380	620,109	0	537	0	0	521	271	9,838	631,656
PROCESS WATER STORAGE TANK	20H	0	94	0	0	10,530	0	0	232	1,114	11,970
RAILROAD SCALE HOUSE	24A	0	7	0	0	468	0	0	4	121	599
BOILER PLANT/WATER PLANT COMPLEX TOTAL		36,119	828,509	22,634	892	21,380	0	6,923	3,080	20,767	940,303
BUILDING 4A											
GREEN SALT PLANT	4A	97,590	281,893	30,741	390	0	0	6,054	2,922	16,626	436,215
EAST WAREHOUSES COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	8,698	528	0	0	0	0	0	90	416	9,732
TRUCK SCALE	22C	0	9	1	0	0	0	0	0	0	11
FINISHED PRODUCTS WAREHOUSE(4A)	77	3,430	1,536	0	169	0	0	0	280	181	5,595
PLANT 6 WAREHOUSE	79	2,855	1,401	0	147	0	0	0	207	115	4,725
RECEIVING/INCOMING MATERIALS INSPECTION	82	2,045	1,920	104	128	3,120	0	109	201	778	8,405
EAST WAREHOUSES COMPLEX TOTAL		17,028	5,395	105	444	3,120	0	109	778	1,489	28,459
ELECTRICAL STATION COMPLEX											
MAIN ELECTRICAL STATION	16A	1,637	14,320	0	0	2,387	0	0	27	732	19,104
ELECTRICAL SUBSTATION	16B	49	4,875	338	43	1,149	0	0	0	308	6,761
ELECTRICAL PANELS AND TRANSFORMER	16C	0	231	0	0	0	0	0	27	180	439
MAIN ELECTRICAL SWITCH HOUSE	16D	44	1,668	177	0	986	0	20	27	143	3,065
MAIN ELECTRICAL TRANSFORMERS	16E	0	19,695	0	0	0	0	0	27	143	19,865
TRAILER SUBSTATION #1	16F	45	619	0	2	0	0	0	0	0	666
TRAILER SUBSTATION #2	16G	42	625	0	2	0	0	0	0	0	669
MAIN ELECTRICAL STRAINER HOUSE	26C	19	176	17	0	347	0	6	40	143	748
ENGINE HOUSE/GARAGE	31A	2,113	2,040	137	0	5,885	0	0	96	3,509	13,780
HEAVY EQUIPMENT BUILDING	46	3,674	1,029	32	124	1,352	0	97	148	1,427	7,883
ELECTRICAL STATION COMPLEX TOTAL		7,623	45,277	702	171	12,105	0	123	393	6,586	72,980
EXTERNAL COMPLEX											
SKEET RANGE BUILDING	28F	0	50	0	4	0	0	0	0	0	54
SEWAGE TREATMENT PLANT INCINERATOR	39D	162	2,218	0	0	263	0	241	34	134	3,052
DECONTAMINATION BUILDING	69	2,599	821	57	33	7,313	0	0	235	2,249	13,307
EXTERNAL COMPLEX TOTAL		2,761	3,089	57	38	7,576	0	241	269	2,383	16,413
GENERAL SUMP COMPLEX											
GENERAL SUMP	18B	1,084	3,751	0	4	0	0	0	591	936	6,366
BIODENITRIFICATION TOWERS	18D	9,304	19,537	2,006	139	0	0	214	444	5,443	37,088
BDN EFFLUENT TREATMENT FACILITY	18H	149	119,544	13,259	28	0	0	0	104	949	134,033
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	1,685	22,405	2,459	18	230	0	206	103	1,699	29,005
BULK LIME HANDLING BUILDING	2C	511	7,245	799	0	0	0	109	88	384	9,137
MAINTENANCE BUILDING	3A	1,595	30,510	3,347	20	0	0	528	143	2,145	38,288
REFINERY SUMP	3H	1,084	45,211	0	0	0	0	0	345	445	47,085
ELECTRICAL POWER CENTER BUILDING	3L	852	18,839	2,023	0	0	0	332	86	1,407	23,539
GENERAL SUMP COMPLEX TOTAL		16,464	267,042	23,893	209	230	0	1,390	1,905	13,408	324,540
LABORATORY COMPLEX											
LABORATORY	15A	14,910	101,660	10,197	1,123	110,260	0	8,693	8,493	42,866	298,201
LABORATORY CHEMICAL STORAGE BUILDING	15B	221	1,824	0	20	1,129	0	0	39	5	3,238
LABORATORY COMPLEX TOTAL		15,131	103,484	10,197	1,143	111,389	0	8,693	8,532	42,870	301,439
LIQUID STORAGE COMPLEX											
BDN SURGE LAGOON	18A	93	699	0	0	632	0	0	49	0	1,473
METHANOL TANK	18J	307	103	0	0	421	0	0	25	24	879
LOW NITRATE TANK	18K	136	925	0	0	0	0	0	9	24	1,094
HIGH NITRATE TANK	18L	136	925	0	0	0	0	0	9	29	1,099
WELL HOUSE #1	20E	0	184	19	0	389	0	0	29	217	839
WELL HOUSE #2	20F	0	222	23	0	391	0	0	29	217	882
WELL HOUSE #3	20G	26	1,176	128	4	514	0	0	22	283	2,154
GAS METER BUILDING	22A	27	105	8	0	753	0	0	27	191	1,111
STORM SEWER LIFT STATION	22B	38	829	90	4	331	0	0	50	120	1,462
SCALE HOUSE AND WEIGH SCALE	22D	53	34	1	0	0	0	19	22	115	243
PUMP HOUSE-HP FIRE PROTECTION	26A	2,808	1,608	154	9	7,557	0	0	103	723	12,972
ELEVATED WATER STORAGE TANK	26B	29,447	1,138	0	0	702	0	0	193	163	31,642
RUST ENGINEERING BUILDING	45A	2,824	6,994	0	221	3,934	0	1,025	572	706	16,276
UTILITY SHED EAST OF RUST TRAILERS	45B	0	11	0	0	0	0	0	22	263	296
LIQUID STORAGE COMPLEX TOTAL		35,896	14,953	435	238	15,624	0	1,044	1,159	3,073	72,423
MAINTENANCE COMPLEX											
MAIN MAINTENANCE BUILDING	12A	24,282	27,127	2,482	165	34,520	0	7,076	755	25,785	122,192
CYLINDER STORAGE BUILDING	12B	215	82	0	167	2,023	0	0	35	765	3,286
LUMBER STORAGE BUILDING	12C	409	56	0	23	0	0	0	19	324	832
MAINTENANCE BUILDING WAREHOUSE	12D	893	529	0	67	0	0	0	117	2,001	3,607
RAILROAD ENGINE HOUSE	24B	206	363	23	0	2,253	0	0	45	665	3,555
PROPANE STORAGE	38A	180	856	78	0	1,847	0	0	261	407	3,630
CYLINDER FILLING STATION	38B	27	7,046	0	2	0	0	0	80	335	7,490
MAINTENANCE COMPLEX TOTAL		26,212	36,058	2,583	423	40,644	0	7,076	1,312	30,283	144,591
MISCELLANEOUS COMPLEX											
10-PLEX NORTH SUBSTATION	16H	2	2,940	0	0	0	0	0	0	0	2,942
10-PLEX SOUTH SUBSTATION	16J	2	2,940	0	0	0	0	0	0	0	2,942
STORM WATER RETENTION BASIN	18E	58	667	0	0	0	0	0	0	0	725

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
CLEARWELL PUMP HOUSE	18G	42	329	27	0	0	0	28	5	389	819
METEOROLOGICAL TOWER	23	129	126	0	0	0	0	0	0	0	255
10-PLEX SEWAGE LIFT STATION	25J	1	275	0	0	0	0	0	0	0	276
GUARD POST ON SOUTH END OF 'D' STREET (1)	28C	106	7	0	0	87	0	0	27	172	399
GUARD POST ON WEST END OF 2ND STREET	28D	0	23	0	0	0	0	0	27	332	382
GUARD POST EAST OF T-81	28E	25	14	0	3	0	0	0	0	68	110
GUARD POST SOUTH OF BUILDING 51	28G	14	18	0	2	0	0	0	0	65	99
UTILITY LINES	G-004	0	34,534	625	0	0	0	0	41,135	0	76,294
PROCESS TRAILERS	G-006	0	0	0	0	0	0	0	0	142,272	142,272
NON-PROCESS TRAILERS	G-007	0	0	0	0	0	0	0	0	610,272	610,272
PIPE BRIDGES	G-008	37,776	0	0	0	456	0	0	0	0	38,232
MISCELLANEOUS COMPLEX TOTAL		38,155	41,873	652	5	543	0	28	41,195	753,570	876,021
OU5 REMEDIAL ACTION COMPLEX											
HIGH NITRATE STORAGE TANK	18M	0	308	0	0	2,808	0	0	12	0	3,128
DISSOLVED OXYGEN BUILDING	18P	153	52,560	5,720	18	0	0	0	18	552	59,022
IAWWT VALVE HOUSE	18Q	327	16,563	1,713	26	0	0	0	200	933	19,762
PILOT PLANT AMMONIA TANK FARM	19B	518	21,436	0	0	1,648	0	0	56	0	23,659
SIX TO FOUR REDUCTION FACILITY #2	51	23,714	472,544	52,505	0	38,136	0	0	0	0	586,899
OU5 REMEDIAL ACTION COMPLEX TOTAL		24,713	563,411	59,938	44	42,591	0	0	287	1,485	692,469
PILOT PLANT COMPLEX											
PILOT PLANT WET SIDE	13A	2,834	55,669	6,080	26	13,557	0	514	1,502	6,213	86,395
PILOT PLANT MAINTENANCE BUILDING	13B	197	592	37	0	4,376	0	31	67	1,054	6,354
SUMP PUMP HOUSE	13C	68	986	107	1	433	0	0	93	197	1,886
PILOT PLANT THORIUM TANK FARM	13D	0	33,739	0	0	0	0	0	146	258	34,143
PILOT PLANT ANNEX	37	2,410	36,169	3,936	0	8,060	0	0	295	2,669	53,538
SIX TO FOUR REDUCTION FACILITY #1	54A	9,458	88,689	9,790	220	13,622	0	604	1,172	7,863	131,419
PILOT PLANT SHELTER	54B	409	233	0	28	0	0	0	169	889	1,728
PILOT PLANT DISSOCIATOR SHELTER	54C	409	5,150	561	94	0	0	0	73	24	6,311
PILOT PLANT WAREHOUSE	68	2,577	760	0	11	1,053	0	444	62	662	5,568
PILOT PLANT COMPLEX TOTAL		18,363	221,987	20,511	380	41,101	0	1,593	3,578	19,830	327,342
PLANT 1 COMPLEX											
PREPARATION PLANT	1A	27,497	135,910	14,795	679	5,524	0	3,375	4,583	12,500	205,863
PLANT 1 STORAGE SHELTER	1B	2,077	138	0	64	0	0	0	48	503	2,830
CHEMICAL WAREHOUSE	30A	10,361	2,347	0	3	416	0	2,345	400	4,698	20,570
DRUM STORAGE WAREHOUSE	30B	136	173	0	9	0	0	0	28	174	521
CP STORAGE WAREHOUSE	56A	2,237	609	0	106	0	0	18	147	1,652	4,778
STORAGE SHED (WEST)	56B	0	33	0	8	0	0	0	37	476	555
STORAGE SHED (EAST)	56C	0	33	0	13	0	0	0	28	548	623
QUONSET HUT #1	60	773	304	0	54	0	0	0	11	71	1,193
QUONSET HUT #2	61	412	211	0	28	0	0	0	14	93	758
QUONSET HUT #3	62	412	212	0	28	0	0	433	7	60	1,152
KC-2 WAREHOUSE	63	6,199	1,817	0	0	11,889	0	65	273	10,580	30,824
DRUM RECONDITIONING BUILDING	66	849	18,429	1,994	49	0	0	34	286	845	22,486
PLANT 1 THORIUM WAREHOUSE	67	1,953	314	0	47	0	0	0	62	605	2,981
GENERAL IN-PROCESS WAREHOUSE	71	3,858	1,177	0	0	6,989	0	0	204	9,576	21,804
DRUM STORAGE BUILDING	72	855	131	0	0	0	0	136	60	362	1,545
TENSION SUPPORT STRUCTURE #4	TS-004	6,816	1,582	0	0	0	0	0	40	531	8,969
TENSION SUPPORT STRUCTURE #5	TS-005	6,816	1,647	0	0	0	0	0	40	531	9,034
TENSION SUPPORT STRUCTURE #6	TS-006	750	261	0	0	0	0	0	13	104	1,128
PLANT 1 COMPLEX TOTAL		72,002	165,328	16,789	1,069	25,818	0	6,406	6,281	43,920	337,613
PLANT 2 COMPLEX											
ORE REFINERY PLANT	2A	62,089	476,566	51,740	504	11,556	520	4,873	2,923	16,443	627,215
METAL DISSOLVER BUILDING	2D	2,239	29,616	3,174	9	0	0	417	274	2,470	38,198
NFS STORAGE AND PUMP HOUSE	2E	49	24,786	0	0	674	0	0	358	326	26,192
COLD SIDE ORE CONVEYOR	2F	743	21,474	0	2	0	0	109	63	254	22,646
HOT SIDE ORE CONVEYOR	2G	654	27,985	0	0	0	0	74	74	222	29,010
WASTE OIL DECANT SHELTER	39B	409	37	1	6	0	0	0	23	76	553
PLANT 2 COMPLEX TOTAL		66,183	580,465	54,916	521	12,229	520	5,474	3,715	19,791	743,814
PLANT 3 COMPLEX											
INCINERATOR BUILDING	39A	3,106	753	39	0	0	0	691	203	1,352	6,144
INCINERATOR SPRINKLER RISER HOUSE	39C	38	715	22	0	313	0	0	23	113	1,224
OZONE BUILDING	3B	511	93	3	0	0	0	143	49	242	1,041
NAR CONTROL HOUSE	3C	1,193	27,539	0	0	0	0	488	166	2,040	31,427
NAR TOWERS	3D	6,353	145,143	0	3	0	0	21	985	765	153,270
HOT RAFFINATE BUILDING	3E	3,257	78,527	8,619	34	7,722	0	652	571	1,339	100,722
HARSHAW DIGESTION FUME RECOVERY	3F	2,045	3,793	0	1	0	0	0	117	234	6,190
REFRIGERATION BUILDING	3G	348	3,134	341	11	0	0	156	42	637	4,669
COMBINED RAFFINATE TANKS	3J	1,677	56,975	0	0	0	0	0	309	545	59,505
OLD COOLING WATER TOWER	3K	0	117	0	0	101	0	0	45	234	498
PLANT 3 COMPLEX TOTAL		18,528	316,789	9,025	50	8,136	0	2,152	2,509	7,501	364,689
PLANT 5 COMPLEX											
PLANT 4 WAREHOUSE	4B	2,767	923	0	131	0	0	0	197	609	4,627
SLAG RECYCLING BUILDING	55A	5,178	21,279	2,307	32	0	0	601	223	2,939	32,558
SLAG RECYCLING PIT/ELEVATOR	55B	934	1,607	171	11	0	0	120	85	172	3,100
METALS PRODUCTION PLANT	5A	84,962	601,069	65,785	955	25,016	0	8,167	6,100	23,517	815,571
PLANT 5 INGOT PICKLING	5B	981	8,850	950	24	0	0	0	131	287	11,233
PLANT 5 ELECTRICAL SUBSTATION	5C	136	2,490	260	6	0	0	0	116	189	3,198
WEST DERBY BREAKOUT/ SLAG MILLING	5D	25,941	76,727	8,381	155	290	0	0	654	932	113,091
PLANT 5 FILTER BUILDING	5E	635	187	0	40	0	0	0	32	417	1,311
PLANT 5 COVERED STORAGE PAD	5F	2,391	437	0	55	0	0	0	36	436	3,355
PLANT 5 INGOT STORAGE SHELTER	5G	426	67	0	13	0	0	0	10	103	619
PLANT 5 COMPLEX TOTAL		124,351	713,636	77,865	1,432	25,306	0	8,888	7,583	29,601	988,662
PLANT 6 COMPLEX											
METALS FABRICATION PLANT	6A	91,068	642,818	70,112	1,037	11,248	0	13,040	4,820	12,920	847,064
PLANT 6 COVERED STORAGE AREA	6B	736	37	0	18	0	0	0	73	124	989
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	204	168	13	25	0	0	0	113	186	710
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	102	93	0	16	0	0	0	94	148	453
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	204	1,929	209	24	0	0	0	109	186	2,662
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	341	5,438	708	23	0	0	0	858	331	8,699
PLANT 6 SUMP BUILDING	6G	6,161	31,031	3,389	84	281	0	95	743	2,290	44,074
PLANT 6 COMPLEX TOTAL		98,817	682,515	74,431	1,227	11,529	0	13,136	6,810	16,187	904,651
PLANT 8 COMPLEX											
PLANT 8 WAREHOUSE	80	1,705	614	0	106	0	0	0	161	464	3,048

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
RECOVERY PLANT	8A	39,220	211,459	22,890	362	9,235	0	4,091	5,184	24,257	316,698
PLANT 8 MAINTENANCE BUILDING	8B	563	245	5	0	3,185	0	234	92	1,347	5,671
ROTARY KILN/DRUM RECONDITIONING	8C	26,009	119,650	13,154	379	4,940	0	0	348	9,683	174,162
PLANT 8 RAILROAD FILTER BUILDING	8D	68	111	10	2	0	0	0	27	57	276
DRUM CONVEYOR SHELTER	8E	399	58	0	6	0	0	0	11	57	531
PLANT 8 OLD DRUM WASHER	8F	0	0	0	5	0	0	0	23	38	67
PLANT 8 COMPLEX TOTAL		67,964	332,135	36,059	860	17,360	0	4,325	5,846	35,903	500,452
REMOVAL ACTION 19 (2)											
PLANT 4 MAINTENANCE BUILDING	4C	1,731	9,118	973	1	0	0	346	28	93	12,290
REMOVAL ACTION 7											
TENSION SUPPORT STRUCTURE #1 (1)	TS-001	3,067	788	0	0	0	0	0	34	335	4,224
TENSION SUPPORT STRUCTURE #2 (1)	TS-002	4,601	293	0	0	0	0	0	44	457	5,395
TENSION SUPPORT STRUCTURE #3 (1)	TS-003	893	141	0	0	0	0	0	9	101	1,144
REMOVAL ACTION 7 TOTAL		8,561	1,222	0	0	0	0	0	87	893	10,763
SEWAGE TREATMENT PLANT COMPLEX											
CHLORINATION BUILDING	25A	0	300	26	0	600	0	0	10	152	1,088
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	517	52	2	0	0	0	13	48	632
SEWAGE LIFT STATION BUILDING	25C	66	328	34	4	688	0	0	13	174	1,308
U.V. DISINFECTION BUILDING	25D	8	424	42	0	435	0	0	20	48	977
DIGESTER AND CONTROL BUILDING	25E	504	1,171	118	5	4,976	0	0	96	365	7,234
SEWAGE TREATMENT PLANT COMPLEX TOTAL		578	2,739	272	11	6,700	0	0	153	786	11,239
TANK FARM COMPLEX											
MAIN TANK FARM	19A	3,694	72,752	0	0	3,159	0	0	384	392	80,380
TANK FARM CONTROL HOUSE	19C	204	1,041	102	5	1,690	0	57	16	726	3,841
OLD NORTH TANK FARM	19D	0	42,000	0	0	632	0	0	71	373	43,076
TANK FARM LIME SLITTER BUILDING	19E	461	1,974	209	13	0	0	0	32	124	2,814
TANK FARM COMPLEX TOTAL		4,359	117,766	312	18	5,481	0	57	503	1,615	130,111
THORIUM/PLANT 9 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	1,658	663	0	5	6,530	0	0	93	2,724	11,672
BUILDING 32 COVERED LOADING DOCK	32B	290	37	0	0	0	0	0	4	426	757
THORIUM WAREHOUSE	64	3,297	3,720	0	212	1,560	0	40	215	2,758	11,802
(OLD) PLANT 5 WAREHOUSE	65	4,497	1,315	0	144	0	0	0	166	1,505	7,626
BUILDING 65 WEST PAD	74L	0	0	0	0	3,528	0	0	0	0	3,528
D & D BUILDING	78	3,985	14,023	1,431	97	10,608	0	88	265	7,395	37,893
PLANT 9 WAREHOUSE	81	1,347	761	0	80	0	0	0	132	143	2,463
SPECIAL PRODUCTS PLANT	9A	33,569	218,725	23,717	882	303	0	4,319	3,473	17,715	302,704
PLANT 9 SUMP TREATMENT FACILITY	9B	559	2,759	302	8	105	0	193	125	685	4,736
PLANT 9 DUST COLLECTOR	9C	102	93	0	7	0	0	0	39	38	279
PLANT 9 SUBSTATION	9D	293	223	0	0	0	0	265	12	845	1,638
PLANT 9 CYLINDER SHED	9E	14	0	0	0	0	0	7	4	19	44
ELECTROSTATIC PRECIPITATOR	9F	68	148	9	7	0	0	15	35	57	339
THORIUM/PLANT 9 COMPLEX TOTAL		49,679	242,468	25,459	1,442	22,635	0	4,927	4,562	34,311	385,482
AT-GRADE AND BELOW-GRADE COMPLEXES											
GRID 1 COMPLEX											
DECONTAMINATION BUILDING	69	0	0	0	0	6,658	1,245	0	0	0	7,903
DECONTAMINATION PAD	74P	0	0	0	0	42,748	0	0	0	0	42,748
BUILDING 69 GRID	GRID 1	1,840	959	0	0	840	0	60	0	4,075	7,775
GRID 1 COMPLEX TOTAL		1,840	959	0	0	50,246	1,245	60	0	4,075	58,426
GRID 10 COMPLEX											
BOILER PLANT	10A	0	0	0	0	85,208	0	11	0	9	85,228
BOILER PLANT MAINTENANCE BUILDING	10B	0	0	0	0	3,109	0	8	0	0	3,117
WET SALT STORAGE BIN	10C	0	0	0	0	5,101	0	0	0	0	5,101
CONT. OIL/GRAPHITE BURN PAD	10D	0	0	0	0	2,525	0	0	0	0	2,525
WATER PLANT	20B	0	0	0	0	27,793	0	0	0	0	27,793
PROCESS WATER STORAGE TANK	20H	0	0	0	0	6,760	0	0	0	0	6,760
PROPANE STORAGE	38A	0	0	0	0	2,082	0	0	0	2	2,083
CYLINDER FILLING STATION	38B	0	0	0	0	182	0	0	0	0	182
BUILDING 10, 20, 38 GRID	GRID 10	3,630	3,179	1,162	0	4,696	0	36	0	4,026	16,729
GRID 10 COMPLEX TOTAL		3,630	3,179	1,162	0	137,454	0	55	0	4,036	149,517
GRID 11 COMPLEX											
MAIN MAINTENANCE BUILDING	12A	0	0	0	0	46,502	87	53	0	54	46,695
CYLINDER STORAGE BUILDING	12B	0	0	0	0	10,249	0	0	0	0	10,249
LUMBER STORAGE BUILDING	12C	0	0	0	0	2,930	0	0	0	0	2,930
MAINTENANCE BUILDING WAREHOUSE	12D	0	0	0	0	7,305	0	0	0	0	7,305
COAL PILE RUNOFF BASIN	18C	0	0	0	0	3,674	0	0	0	0	3,674
MAIN TANK FARM	19A	0	0	0	0	54,784	0	14	0	0	54,798
TANK FARM CONTROL HOUSE	19C	0	0	0	0	5,482	0	0	0	0	5,482
OLD NORTH TANK FARM	19D	0	0	0	0	2,000	0	0	0	0	2,000
TANK FARM LIME SLITTER BUILDING	19E	0	0	0	0	319	0	0	0	0	319
PUMP STATION AND POWER CENTER	20A	0	0	0	0	2,019	0	0	0	2	2,021
COOLING TOWERS	20C	0	0	0	0	11,953	0	0	0	0	11,953
RAILROAD ENGINE HOUSE	24B	0	0	0	0	3,228	0	0	0	0	3,228
BUILDING 12 NORTH PAD	74N	0	0	0	0	4,250	0	0	0	0	4,250
BUILDING 12, 19, 20 GRID	GRID 11	992	4,861	1,462	0	13,733	0	69	0	2,221	23,336
GRID 11 COMPLEX TOTAL		992	4,861	1,462	0	168,426	87	135	0	2,277	178,239
GRID 12 COMPLEX											
SLAG RECYCLING BUILDING	55A	0	0	0	0	3,527	0	0	0	6	3,533
SLAG RECYCLING PIT/ELEVATOR	55B	0	0	0	0	3,621	0	0	0	0	3,621
METALS PRODUCTION PLANT	5A	0	47	177	0	73,316	0	28	0	0	73,568
PLANT 5 INGOT PICKLING	5B	0	0	0	0	4,216	0	0	0	0	4,216
PLANT 5 ELECTRICAL SUBSTATION	5C	0	0	0	0	1,202	0	0	0	0	1,202
WEST DERBY BREAKOUT/ SLAG MILLING	5D	0	0	0	0	14,302	0	0	0	0	14,302
PLANT 5 FILTER BUILDING	5E	0	0	0	0	4,973	0	0	0	0	4,973
PLANT 5 COVERED STORAGE PAD	5F	0	0	0	0	11,049	0	0	0	0	11,049
PLANT 5 INGOT STORAGE SHELTER	5G	0	0	0	0	1,766	0	0	0	0	1,766
PLANT 5 EAST PAD	74G	0	0	0	0	3,050	0	0	0	0	3,050
PLANT 5 SOUTH PAD	74H	0	0	0	0	1,950	0	0	0	0	1,950
BUILDING 5 GRID	GRID 12	0	2,419	708	0	9,380	0	58	0	155	12,721
GRID 12 COMPLEX TOTAL		0	2,466	885	0	132,353	0	86	0	161	135,952

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 13 COMPLEX											
GREEN SALT PLANT	4A	470	1	0	0	77,243	63	12	0	14	77,803
PLANT 4 WAREHOUSE	4B	167	0	0	0	19,963	0	0	0	0	20,130
PLANT 4 MAINTENANCE BUILDING	4C	0	0	0	0	4,318	0	2	0	0	4,321
PLANT 4 PAD	74E	0	0	0	0	11,085	0	0	0	0	11,085
PLANT 7 PAD	74F	0	0	0	0	1,134	0	0	0	0	1,134
PLANT 7	7A	0	22	0	0	503,076	0	0	0	0	503,098
BUILDING 4, 7 GRID	GRID 13	0	2,408	1,040	0	26,813	0	128	0	19	30,407
GRID 13 COMPLEX TOTAL		637	2,431	1,040	0	643,632	63	143	0	33	647,978
GRID 14 COMPLEX											
SERVICE BUILDING	11	0	870	0	0	61,481	0	12	0	0	62,364
ADMINISTRATION BUILDING	14A	0	51	0	0	21,886	0	227	0	10	22,175
BUILDING 14 EOC GENERATOR SET	14B	0	0	0	0	113	0	0	0	0	113
ELECTRICAL SUBSTATION	16B	0	0	0	0	1,107	0	0	0	0	1,107
STORM SEWER LIFT STATION	22B	0	0	0	0	314	0	0	0	0	314
SECURITY BUILDING	28A	0	0	0	0	8,945	0	31	0	0	8,976
HUMAN RESOURCES BUILDING	28B	0	0	0	0	8,997	0	330	0	0	9,327
HEALTH AND SAFETY BUILDING	53A	0	145	0	0	62,694	0	492	0	8	63,339
IN-VIVO BUILDING	53B	0	0	0	0	15,860	0	0	0	0	15,860
BUILDING 11, 14, 28, 53 GRID	GRID 14	0	6,436	2,806	0	6,893	0	166	0	97	16,400
GRID 14 COMPLEX TOTAL		0	7,503	2,806	0	188,292	0	1,259	0	115	199,976
GRID 15 COMPLEX											
GUARD POST EAST OF T-81	28E	0	0	0	0	195	0	0	0	0	195
WEST PARKING LOT GRID	GRID 15	0	527	0	0	299	0	171	0	124	1,120
GRID 15 COMPLEX TOTAL		0	527	0	0	494	0	171	0	124	1,315
GRID 16 COMPLEX											
RAILROAD SCALE HOUSE	24A	0	0	0	0	5,304	0	0	0	0	5,304
QUONSET HUT #1	60	0	0	0	0	20,378	0	0	0	0	20,378
QUONSET HUT #2	61	0	0	0	0	2,678	0	0	0	0	2,678
QUONSET HUT #3	62	0	0	0	0	4,496	0	0	0	0	4,496
BUILDING 60, 61, 62 GRID	GRID 16	2,208	336	0	0	3,725	0	27	0	4,891	11,187
GRID 16 COMPLEX TOTAL		2,208	336	0	0	36,580	0	27	0	4,891	44,042
GRID 17 COMPLEX											
CP STORAGE WAREHOUSE	56A	0	0	0	0	10,013	0	0	0	1	10,015
BUILDING 56, PLANT 1 PAD GRID	GRID 17	53,508	1,970	0	0	2,775	0	69	0	1,799	60,122
GRID 17 COMPLEX TOTAL		53,508	1,970	0	0	12,789	0	69	0	1,801	70,136
GRID 18 COMPLEX											
CHEMICAL WAREHOUSE	30A	0	8	0	0	23,508	0	2	0	0	23,519
BUILDING 30 GRID	GRID 18	1,534	4,236	1,030	0	81,073	0	27	0	3,403	91,303
GRID 18 COMPLEX TOTAL		1,534	4,244	1,030	0	104,581	0	29	0	3,403	114,822
GRID 19 COMPLEX											
GENERAL SUMP	18B	0	0	64	0	5,353	2,472	0	0	0	7,889
BIODENITRIFICATION TOWERS	18D	0	0	0	0	6,212	0	0	0	0	6,212
ORE REFINERY PLANT	2A	1,600	218	38	0	68,482	5,996	15	0	7	76,356
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	0	0	0	0	2,185	305	10	0	0	2,501
BULK LIME HANDLING BUILDING	2C	0	0	0	0	2,913	0	0	0	0	2,913
METAL DISSOLVER BUILDING	2D	0	0	0	0	3,984	423	0	0	0	4,407
COLD SIDE ORE CONVEYOR	2F	234	0	0	0	4,477	0	0	0	0	4,711
HOT SIDE ORE CONVEYOR	2G	0	0	0	0	1,355	0	0	0	0	1,355
INCINERATOR BUILDING	39A	0	0	0	0	3,226	0	0	0	0	3,226
WASTE OIL DECANT SHELTER	39B	0	0	0	0	8,751	0	0	0	0	8,751
INCINERATOR SPRINKLER RISER HOUSE	39C	0	0	0	0	82	0	0	0	0	82
MAINTENANCE BUILDING	3A	0	0	0	0	27,464	0	7	0	0	27,471
OZONE BUILDING	3B	0	0	0	0	1,872	0	0	0	0	1,872
NAR CONTROL HOUSE	3C	50	0	0	0	2,961	0	50	0	0	3,061
NAR TOWERS	3D	0	0	0	0	3,846	0	0	0	0	3,846
HOT RAFFINATE BUILDING	3E	0	0	0	0	18,155	322	0	0	0	18,477
HARSHAW DIGESTION FUME RECOVERY	3F	0	0	0	0	1,007	347	0	0	0	1,354
REFRIGERATION BUILDING	3G	42	0	0	0	1,101	0	0	0	0	1,143
REFINERY SUMP	3H	0	0	0	0	203	1,109	0	0	0	1,312
COMBINED RAFFINATE TANKS	3J	0	0	0	0	5,841	2,856	0	0	0	8,697
OLD COOLING WATER TOWER	3K	0	0	0	0	858	0	0	0	0	858
ELECTRICAL POWER CENTER BUILDING	3L	310	0	0	0	1,737	0	0	0	0	2,046
PLANT 2 EAST PAD	74A	0	0	0	0	5,021	0	0	0	0	5,021
PLANT 2 WEST PAD	74B	0	0	0	0	7,150	0	0	0	0	7,150
BUILDING 39A PAD	74W	0	0	0	0	3,575	0	0	0	0	3,575
BUILDING 2, 3 GRID	GRID 19	516	6,995	5,055	0	21,887	0	101	0	1,143	35,698
GRID 19 COMPLEX TOTAL		2,752	7,213	5,157	0	209,697	13,830	184	0	1,150	239,983
GRID 2 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	0	9	0	0	13,245	0	0	0	0	13,254
BUILDING 32 COVERED LOADING DOCK	32B	0	0	0	0	2,684	0	0	0	0	2,684
THORIUM WAREHOUSE	64	0	10	0	0	17,852	0	0	0	9	17,870
(OLD) PLANT 5 WAREHOUSE	65	0	0	0	0	10,580	0	0	0	0	10,580
BUILDING 65 WEST PAD	74L	0	0	0	0	14,668	0	0	0	0	14,668
BUILDING 64 EAST PAD & R.R. DOCK	74M	0	0	0	0	15,734	0	0	0	0	15,734
D & D BUILDING	78	0	0	0	0	7,374	0	0	0	0	7,374
BUILDING 32, 64, 65, 78 GRID	GRID 2	869	1,753	0	0	2,888	0	56	0	966	6,533
GRID 2 COMPLEX TOTAL		869	1,772	0	0	85,025	0	56	0	975	88,697
GRID 20 COMPLEX											
BDN EFFLUENT TREATMENT FACILITY	18H	0	0	0	0	1,757	0	0	0	0	1,757
PLANT 8 EAST PAD	74C	0	0	0	0	9,407	0	0	0	0	9,407
PLANT 8 WEST PAD	74D	0	0	0	0	6,399	0	0	0	0	6,399
PLANT 8 OLD METAL DISSOLVER PAD	74Q	0	0	0	0	1,105	569	0	0	0	1,674
PLANT 8 NORTH PAD	74R	0	0	0	0	2,670	0	0	0	0	2,670
PLANT 8 WAREHOUSE	80	0	0	0	0	14,774	0	0	0	0	14,774
RECOVERY PLANT	8A	0	266	12	0	52,441	0	49	0	0	52,768
PLANT 8 MAINTENANCE BUILDING	8B	0	0	0	0	1,830	0	4	0	0	1,834
ROTARY KILN/DRUM RECONDITIONING	8C	0	0	0	0	33,083	0	0	0	0	33,083
PLANT 8 RAILROAD FILTER BUILDING	8D	5,428	0	0	0	9,852	0	0	0	0	15,280
DRUM CONVEYOR SHELTER	8E	0	0	0	0	260	0	0	0	0	260
BUILDING 8, 80 GRID	GRID 20	261	2,805	2,987	0	14,282	0	111	0	577	21,022
GRID 20 COMPLEX TOTAL		5,688	3,071	2,998	0	147,860	569	164	0	577	160,927

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 21 COMPLEX											
LABORATORY	15A	0	1,195	48	0	125,819	0	957	0	93	128,111
LABORATORY CHEMICAL STORAGE BUILDING	15B	0	0	0	0	802	0	0	0	0	802
LABORATORY PAD	74V	0	0	0	0	1,751	0	0	0	0	1,751
BUILDING 15 GRID	GRID 21	0	2,504	1,001	0	740	0	32	0	3	4,281
GRID 21 COMPLEX TOTAL		0	3,699	1,049	0	129,113	0	989	0	96	134,946
GRID 22 COMPLEX											
NORTHWEST CORNER OF SITE GRID	GRID 22	1,406	310	0	0	447	0	23	0	3,116	5,302
GRID 23 COMPLEX											
EAST OF BUILDING 56 GRID	GRID 23	20,449	443	0	0	24	0	9	0	679	21,604
GRID 24 COMPLEX											
GUARD POST ON WEST END OF 2ND STREET	28D	0	0	0	0	31	0	0	0	0	31
PLANT 1 THORIUM WAREHOUSE	67	0	0	0	0	3,328	0	0	0	0	3,328
BUILDING 67 GRID	GRID 24	644	1,303	42	0	277	0	27	0	1,426	3,719
GRID 24 COMPLEX TOTAL		644	1,303	42	0	3,636	0	27	0	1,426	7,078
GRID 25 COMPLEX											
WELL HOUSE #1	20E	0	0	0	0	104	0	0	0	0	104
WELL HOUSE #2	20F	0	0	0	0	104	0	0	0	0	104
SCALE HOUSE AND WEIGH SCALE	22D	0	0	0	0	2,483	0	0	0	0	2,483
PUMP HOUSE-HP FIRE PROTECTION	26A	0	0	0	0	1,875	0	0	0	0	1,875
ELEVATED WATER STORAGE TANK	26B	0	0	0	0	11,459	0	0	0	0	11,459
RUST ENGINEERING BUILDING	45A	0	5	0	0	21,424	0	159	0	0	21,588
BUILDING 45, WEST WATER TOWER(26B) GRID	GRID 25	798	3,309	1,616	0	14,885	0	66	0	1,766	22,440
GRID 25 COMPLEX TOTAL		798	3,314	1,616	0	52,334	0	225	0	1,766	60,052
GRID 26 COMPLEX											
PILOT PLANT WET SIDE	13A	0	28	109	0	24,999	4,694	0	0	0	29,830
PILOT PLANT MAINTENANCE BUILDING	13B	0	0	0	0	3,261	0	5	0	0	3,266
SUMP PUMP HOUSE	13C	0	0	0	0	2,242	0	0	0	0	2,242
PILOT PLANT THORIUM TANK FARM	13D	0	0	0	0	4,314	0	0	0	0	4,314
PILOT PLANT AMMONIA TANK FARM	19B	0	0	0	0	8,203	0	0	0	0	8,203
WELL HOUSE #3	20G	0	0	0	0	104	0	0	0	0	104
PILOT PLANT ANNEX	37	0	0	0	0	13,363	0	0	0	4	13,367
SIX TO FOUR REDUCTION FACILITY #2	51	0	1	596	0	28,312	0	0	0	58	28,966
SIX TO FOUR REDUCTION FACILITY #1	54A	0	0	0	0	11,388	0	20	0	0	11,408
PILOT PLANT SHELTER	54B	0	0	0	0	3,234	0	0	0	0	3,234
PILOT PLANT DISSOCIATOR SHELTER	54C	0	0	0	0	1,488	0	0	0	0	1,488
PILOT PLANT WAREHOUSE	68	940	0	0	0	5,005	0	2	0	0	5,947
PILOT PLANT PAD	74U	0	0	0	0	4,077	0	0	0	0	4,077
BUILDING 51, 68, PILOT PLANT GRID	GRID 26	1,329	1,766	606	0	4,054	0	74	0	2,944	10,773
GRID 26 COMPLEX TOTAL		2,269	1,796	1,311	0	114,044	4,694	102	0	3,006	127,221
GRID 27 COMPLEX											
PREPARATION PLANT	1A	0	69	197	0	26,018	0	21	0	10	26,316
PLANT 1 STORAGE SHELTER	1B	0	0	0	0	17,032	0	0	0	0	17,032
PLANT 1 ORE SILOS	1C	0	0	0	0	10,069	0	0	0	0	10,069
NFS STORAGE AND PUMP HOUSE	2E	0	0	0	0	622	0	0	0	0	622
CONVEYOR TUNNEL (FROM PLANT 1)	2H	0	0	0	0	2,804	0	0	0	23	2,827
DRUM STORAGE WAREHOUSE	30B	0	0	0	0	461	0	0	0	0	461
DRUM RECONDITIONING BUILDING	66	0	0	0	0	4,784	0	15	0	0	4,799
GENERAL IN-PROCESS WAREHOUSE	71	0	0	0	0	25,617	0	0	0	0	25,617
DRUM STORAGE BUILDING	72	0	0	0	0	1,713	0	0	0	0	1,713
PLANT 1 STORAGE PAD	74T	0	0	0	0	362,267	0	0	0	0	362,267
BUILDING 1, 66, 71, 72 GRID	GRID 27	0	2,400	347	0	3,457	0	86	0	51	6,340
GRID 27 COMPLEX TOTAL		0	2,469	543	0	454,844	0	122	0	85	458,063
GRID 28 COMPLEX											
GUARD POST SOUTH OF BUILDING 51	28G	0	0	0	0	195	0	0	0	0	195
SOUTH OF PILOT PLANT GRID	GRID 28	0	13	0	0	70	0	41	0	2	126
GRID 28 COMPLEX TOTAL		0	13	0	0	265	0	41	0	2	321
GRID 29 COMPLEX											
10-PLEX NORTH SUBSTATION	16H	0	0	0	0	283	0	0	0	0	283
10-PLEX SOUTH SUBSTATION	16J	0	0	0	0	283	0	0	0	0	283
10-PLEX SEWAGE LIFT STATION	25J	0	0	0	0	320	0	0	0	0	320
SOUTH OF BUILDING 15 GRID	GRID 29	0	541	0	0	31	0	63	0	137	772
GRID 29 COMPLEX TOTAL		0	541	0	0	917	0	63	0	137	1,657
GRID 3 COMPLEX											
PLANT 9 PAD	74K	0	0	0	0	6,634	0	0	0	0	6,634
FINISHED PRODUCTS WAREHOUSE(4A)	77	0	0	0	0	18,492	0	0	0	0	18,492
PLANT 9 WAREHOUSE	81	4,384	0	0	0	11,731	0	0	0	0	16,115
SPECIAL PRODUCTS PLANT	9A	0	538	232	0	68,711	2,146	18	0	30	71,675
PLANT 9 SUMP TREATMENT FACILITY	9B	0	0	0	0	2,140	0	0	0	0	2,140
PLANT 9 DUST COLLECTOR	9C	0	0	0	0	763	0	0	0	0	763
PLANT 9 SUBSTATION	9D	0	0	0	0	1,506	0	0	0	0	1,506
PLANT 9 CYLINDER SHED	9E	0	0	0	0	43	0	0	0	0	43
ELECTROSTATIC PRECIPITATOR	9F	0	0	0	0	642	0	0	0	0	642
BUILDING 9, 77, 81 GRID	GRID 3	1,022	3,603	251	0	8,365	0	72	0	1,133	14,446
GRID 3 COMPLEX TOTAL		5,406	4,141	484	0	119,028	2,146	90	0	1,163	132,457
GRID 30 COMPLEX											
STORM WATER RETENTION BASIN	18E	0	0	0	0	0	0	0	0	1,963	1,963
IAWWT VALVE HOUSE	18Q	0	0	0	0	2,459	0	0	0	0	2,459
METEOROLOGICAL TOWER	23	0	0	0	0	48	0	0	0	0	48
STORM WATER RETENTION BASINS GRID	GRID 30	0	5,818	0	0	22	0	52	0	14	5,905
GRID 30 COMPLEX TOTAL		0	5,818	0	0	2,529	0	52	0	1,977	10,375
GRID 31 COMPLEX											
BDN SURGE LAGOON	18A	0	0	0	0	0	0	0	0	1,653	1,653
CLEARWELL PUMP HOUSE	18G	0	0	0	0	271	0	0	0	0	271
METHANOL TANK	18J	0	0	0	0	1,760	0	0	0	0	1,760
LOW NITRATE TANK	18K	0	0	0	0	0	0	0	0	335	335
HIGH NITRATE TANK	18L	0	0	0	0	0	0	0	0	335	335
HIGH NITRATE STORAGE TANK	18M	0	0	0	0	12,327	0	0	0	0	12,327
UTILITY TRENCH TO PIT AREA	22E	3,914	0	0	0	54,600	0	0	0	0	58,514
SILO 4	35A	0	18	0	0	0	0	0	0	0	18

TABLE B-3 OPERABLE UNIT 3 BULKED MATERIAL VOLUME ESTIMATES (IN CUBIC FEET)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
WASTE PITS GRID	GRID 31	3,988	4,770	2,727	0	120	0	0	0	8,830	20,434
GRID 31 COMPLEX TOTAL		7,902	4,789	2,727	0	69,078	0	0	0	11,153	95,648
GRID 32 COMPLEX											
DISSOLVED OXYGEN BUILDING	18P	0	0	0	0	857	0	0	0	0	857
CHLORINATION BUILDING	25A	0	0	0	0	2,331	0	0	0	0	2,331
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	0	0	0	667	0	0	0	0	667
U.V. DISINFECTION BUILDING	25D	0	0	0	0	1,542	0	0	0	0	1,542
DIGESTER AND CONTROL BUILDING	25E	0	0	0	0	9,504	0	0	0	0	9,504
SLUDGE DRYING BEDS	25F	290	34	0	0	8,121	0	0	7	0	8,452
PRIMARY SETTLING BASINS	25G	69	146	0	0	8,939	0	0	0	0	9,154
TRICKLING FILTERS	25H	4	110	0	0	3,728	0	0	19	0	3,861
SEWAGE TREATMENT PLANT INCINERATOR	39D	0	0	0	0	650	0	0	0	0	650
SEWER TREATMENT GRID	GRID 32	0	3,026	218	0	903	0	73	0	3	4,223
GRID 32 COMPLEX TOTAL		363	3,315	218	0	37,242	0	73	26	3	41,241
GRID 33 COMPLEX											
FIRE BRIGADE TRAINING CENTER BLDG.	73A	0	0	0	0	1,682	0	0	0	0	1,682
BUILDING 73 GRID	GRID 33	0	300	0	0	77	0	27	0	0	404
GRID 33 COMPLEX TOTAL		0	300	0	0	1,758	0	27	0	0	2,085
GRID 4 COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	0	0	0	0	11,384	0	0	0	0	11,384
TRUCK SCALE	22C	365	0	0	0	0	0	0	0	0	365
PLANT 6 WAREHOUSE	79	0	0	0	0	16,968	0	0	0	6	16,974
RECEIVING/INCOMING MATERIALS INSPECTION	82	0	12	0	0	14,020	0	0	0	9	14,041
BUILDING 79, 82, EAST WATER TOWER(20D) GRID	GRID 4	0	2,417	0	0	8,312	0	92	0	10	10,831
GRID 4 COMPLEX TOTAL		365	2,429	0	0	50,684	0	92	0	25	53,595
GRID 5 COMPLEX											
EAST OF MAIN SUB-STATION GRID	GRID 5	0	905	553	0	34,509	0	60	0	0	36,027
GRID 6 COMPLEX											
GAS METER BUILDING	22A	0	0	0	0	454	0	0	0	0	454
METALS FABRICATION PLANT	6A	33,384	788	733	0	388,246	3,747	108	0	130	427,137
PLANT 6 COVERED STORAGE AREA	6B	0	0	0	0	1,279	0	0	0	0	1,279
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	0	0	0	0	541	0	0	0	0	541
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	0	0	0	0	1,221	0	0	0	0	1,221
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	0	0	0	0	778	0	0	0	0	778
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	209	0	0	0	1,447	0	0	0	0	1,656
PLANT 6 SUMP BUILDING	6G	0	0	0	0	16,669	0	0	0	0	16,669
PLANT 6 PADS	74J	0	0	0	0	1,982	0	0	0	0	1,982
BUILDING 6 GRID	GRID 6	0	4,530	1,537	0	29,483	0	114	0	24	35,688
GRID 6 COMPLEX TOTAL		33,593	5,318	2,270	0	442,100	3,747	222	0	155	487,405
GRID 7 COMPLEX											
MAIN ELECTRICAL STATION	16A	0	0	0	0	7,091	0	0	0	90	7,181
ELECTRICAL PANELS AND TRANSFORMER	16C	0	0	0	0	52	0	0	0	0	52
MAIN ELECTRICAL SWITCH HOUSE	16D	0	0	0	0	976	0	0	0	0	976
MAIN ELECTRICAL TRANSFORMERS	16E	0	0	0	0	734	0	0	0	0	734
TRAILER SUBSTATION #1	16F	0	0	0	0	102	0	0	0	0	102
TRAILER SUBSTATION #2	16G	0	0	0	0	102	0	0	0	0	102
SEWAGE LIFT STATION BUILDING	25C	0	0	0	0	3,975	0	0	0	0	3,975
MAIN ELECTRICAL STRAINER HOUSE	26C	0	0	0	0	322	0	0	0	0	322
GUARD POST ON SOUTH END OF 'D' STREET	28C	0	0	0	0	26	0	0	0	0	26
ENGINE HOUSE/GARAGE	31A	0	4	0	0	7,310	0	30	0	0	7,343
OLD TRUCK SCALE	31B	0	0	0	0	4,742	0	0	0	0	4,742
HEAVY EQUIPMENT BUILDING	46	0	91	0	0	20,948	0	5	0	0	21,043
BUILDING 31, 46, MAIN SUB-STATION GRID	GRID 7	0	2,519	545	0	5,833	0	94	0	107	9,097
GRID 7 COMPLEX TOTAL		0	2,613	545	0	52,212	0	129	0	197	55,695
GRID 8 AND 15 COMPLEX											
PARKING LOT	89	0	0	0	0	647,546	0	0	0	0	647,546
GRID 8 COMPLEX											
SKEET RANGE BUILDING	28F	0	0	0	0	195	0	0	0	0	195
EAST PARKING LOT GRID	GRID 8	0	510	0	0	1,712	0	106	0	11	2,440
GRID 8 COMPLEX TOTAL		0	510	0	0	1,907	0	106	0	11	2,635
GRID 9 COMPLEX											
UTILITIES HEAVY EQUIPMENT BUILDING	10E	0	0	0	0	2,941	0	0	0	0	2,941
KC-2 WAREHOUSE	63	10,229	0	0	0	28,582	0	5	0	0	38,816
BUILDING 63 WEST PAD	74S	0	0	0	0	2,088	0	0	0	0	2,088
BUILDING 63 GRID	GRID 9	5,623	1,614	0	0	2,568	0	47	0	6,226	16,077
GRID 9 COMPLEX TOTAL		15,852	1,614	0	0	36,178	0	52	0	6,226	59,921
MISCELLANEOUS AT/BELOW GRADE COMPLEX											
ROADS	G-002	0	0	0	0	965,967	0	0	0	0	965,967
OPERABLE UNIT 3 TOTAL		1,025,240	5,819,553	496,446	12,112	5,889,665	26,900	96,846	110,469	1,253,832	14,731,064

NOTES:
(1) Component has been remediated.
(2) Does not include Plant 7 (7A) or Plant 7 Overhead Crane (7B) Quantities

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
ABOVE-GRADE COMPLEXES											
ADMINISTRATION COMPLEX											
SERVICE BUILDING	11	40	447	0	63	7,086	0	39	2	240	7,918
ADMINISTRATION BUILDING	14A	13	147	0	10	2,645	0	31	0	200	3,048
BUILDING 14 EOC GENERATOR SET	14B	0	2	0	0	0	0	0	0	0	2
SECURITY BUILDING	28A	3	20	0	4	481	0	0	0	52	560
HUMAN RESOURCES BUILDING	28B	58	12	0	8	134	0	7	0	68	286
HEALTH AND SAFETY BUILDING	53A	82	163	0	42	3,133	0	54	1	356	3,831
IN-VIVO BUILDING	53B	6	110	0	6	0	0	2	0	17	141
ADMINISTRATION COMPLEX TOTAL		201	901	0	134	13,478	0	133	4	935	15,786
BOILER PLANT/WATER PLANT COMPLEX											
BOILER PLANT	10A	441	893	93	10	300	0	302	1	45	2,086
BOILER PLANT MAINTENANCE BUILDING	10B	10	7	0	3	16	0	1	0	1	39
WET SALT STORAGE BIN	10C	2	1	0	0	120	0	0	0	0	123
UTILITIES HEAVY EQUIPMENT BUILDING	10E	3	3	0	3	0	0	0	0	1	10
PUMP STATION AND POWER CENTER	20A	14	27	3	0	0	0	11	0	4	59
WATER PLANT	20B	55	202	22	4	25	0	9	1	16	334
COOLING TOWERS	20C	6	214	0	5	0	0	24	0	73	322
PROCESS WATER STORAGE TANK	20H	0	2	0	0	608	0	0	0	1	611
RAILROAD SCALE HOUSE	24A	0	0	0	0	10	0	0	0	1	11
BOILER PLANT/WATER PLANT COMPLEX TOTAL		530	1,349	119	26	1,078	0	348	2	143	3,594
BUILDING 4A											
GREEN SALT PLANT	4A	1,432	2,296	246	44	0	0	285	2	72	4,376
EAST WAREHOUSES COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	128	9	0	0	0	0	0	0	1	138
TRUCK SCALE	22C	0	0	0	0	0	0	0	0	0	0
FINISHED PRODUCTS WAREHOUSE(4A)	77	50	33	0	18	0	0	0	0	0	102
PLANT 6 WAREHOUSE	79	42	28	0	15	0	0	0	0	0	85
RECEIVING/INCOMING MATERIALS INSPECTION	82	30	25	1	15	66	0	1	0	5	143
EAST WAREHOUSES COMPLEX TOTAL		250	95	1	48	66	0	1	1	6	467
ELECTRICAL STATION COMPLEX											
MAIN ELECTRICAL STATION	16A	24	41	0	0	138	0	0	0	5	207
ELECTRICAL SUBSTATION	16B	1	15	1	1	24	0	0	0	3	45
ELECTRICAL PANELS AND TRANSFORMER	16C	0	4	0	0	0	0	0	0	0	4
MAIN ELECTRICAL SWITCH HOUSE	16D	1	5	0	0	21	0	1	0	0	28
MAIN ELECTRICAL TRANSFORMERS	16E	0	222	0	0	0	0	0	0	0	222
TRAILER SUBSTATION #1	16F	1	3	0	0	0	0	0	0	0	4
TRAILER SUBSTATION #2	16G	1	3	0	0	0	0	0	0	0	4
MAIN ELECTRICAL STRAINER HOUSE	26C	0	1	0	0	7	0	0	0	0	10
ENGINE HOUSE/GARAGE	31A	31	37	2	0	150	0	0	0	31	251
HEAVY EQUIPMENT BUILDING	46	54	20	1	15	29	0	1	0	11	130
ELECTRICAL STATION COMPLEX TOTAL		112	350	4	17	369	0	2	0	50	904
EXTERNAL COMPLEX											
SKEET RANGE BUILDING	28F	0	0	0	1	0	0	0	0	0	1
SEWAGE TREATMENT PLANT INCINERATOR	39D	2	2	0	0	15	0	13	0	0	32
DECONTAMINATION BUILDING	69	38	17	1	0	216	0	0	0	16	290
EXTERNAL COMPLEX TOTAL		41	20	1	1	231	0	13	0	16	323
GENERAL SUMP COMPLEX											
GENERAL SUMP	18B	16	135	0	1	0	0	0	0	2	154
BIODENITRIFICATION TOWERS	18D	136	85	6	13	0	0	1	0	21	262
BDN EFFLUENT TREATMENT FACILITY	18H	2	109	12	3	0	0	0	0	2	129
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	28	51	5	2	13	0	10	0	5	113
BULK LIME HANDLING BUILDING	2C	8	15	2	0	0	0	5	0	2	32
MAINTENANCE BUILDING	3A	23	68	7	0	0	0	25	0	5	128
REFINERY SUMP	3H	16	116	0	0	0	0	0	0	1	133
ELECTRICAL POWER CENTER BUILDING	3L	13	56	4	0	0	0	15	0	3	91
GENERAL SUMP COMPLEX TOTAL		242	635	35	19	13	0	56	2	41	1,041
LABORATORY COMPLEX											
LABORATORY	15A	219	604	51	154	4,508	0	54	5	425	6,020
LABORATORY CHEMICAL STORAGE BUILDING	15B	3	6	0	2	24	0	0	0	0	35
LABORATORY COMPLEX TOTAL		222	610	51	156	4,532	0	54	5	425	6,055
LIQUID STORAGE COMPLEX											
BDN SURGE LAGOON	18A	1	7	0	0	36	0	0	0	0	45
METHANOL TANK	18J	5	2	0	0	24	0	0	0	0	31
LOW NITRATE TANK	18K	2	12	0	0	0	0	0	0	0	14
HIGH NITRATE TANK	18L	2	12	0	0	0	0	0	0	0	14
WELL HOUSE #1	20E	0	3	0	0	8	0	0	0	1	13
WELL HOUSE #2	20F	0	3	0	0	8	0	0	0	1	13
WELL HOUSE #3	20G	0	2	0	0	11	0	0	0	2	16
GAS METER BUILDING	22A	0	1	0	0	24	0	0	0	1	27
STORM SEWER LIFT STATION	22B	1	3	0	1	7	0	0	0	0	12
SCALE HOUSE AND WEIGH SCALE	22D	1	0	0	0	0	0	1	0	0	2
PUMP HOUSE-HP FIRE PROTECTION	26A	41	23	2	0	263	0	0	0	6	335
ELEVATED WATER STORAGE TANK	26B	432	168	0	0	41	0	0	0	0	640
RUST ENGINEERING BUILDING	45A	41	50	0	29	132	0	6	0	3	261
UTILITY SHED EAST OF RUST TRAILERS	45B	0	0	0	0	0	0	0	0	1	1
LIQUID STORAGE COMPLEX TOTAL		527	285	3	29	556	0	7	1	16	1,424
MAINTENANCE COMPLEX											
MAIN MAINTENANCE BUILDING	12A	356	129	7	14	820	0	271	1	107	1,706
CYLINDER STORAGE BUILDING	12B	3	1	0	2	79	0	0	0	6	90
LUMBER STORAGE BUILDING	12C	6	1	0	2	0	0	0	0	2	11
MAINTENANCE BUILDING WAREHOUSE	12D	13	11	0	8	0	0	0	0	4	36
RAILROAD ENGINE HOUSE	24B	3	4	0	0	48	0	0	0	5	60
PROPANE STORAGE	38A	3	21	2	0	69	0	0	0	3	98
CYLINDER FILLING STATION	38B	0	52	0	0	0	0	0	0	0	53
MAINTENANCE COMPLEX TOTAL		385	220	10	26	1,015	0	271	1	127	2,054
MISCELLANEOUS COMPLEX											
10-PLEX NORTH SUBSTATION	16H	0	5	0	0	0	0	0	0	0	5
10-PLEX SOUTH SUBSTATION	16J	0	5	0	0	0	0	0	0	0	5
STORM WATER RETENTION BASIN	18E	1	3	0	0	0	0	0	0	0	3

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

September 1995

COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
CLEARWELL PUMP HOUSE	18G	1	4	0	0	0	0	1	0	3	9
METEOROLOGICAL TOWER	23	2	0	0	0	0	0	0	0	0	2
10-PLEX SEWAGE LIFT STATION	25J	0	0	0	0	0	0	0	0	0	0
GUARD POST ON SOUTH END OF 'D' STREET (1)	28C	2	0	0	0	2	0	0	0	1	4
GUARD POST ON WEST END OF 2ND STREET	28D	0	0	0	0	0	0	0	0	2	2
GUARD POST EAST OF T-61	28E	0	0	0	0	0	0	0	0	0	1
GUARD POST SOUTH OF BUILDING 51	28G	0	0	0	0	0	0	0	0	0	1
UTILITY LINES	G-004	0	986	23	0	0	0	0	23	0	1,033
PROCESS TRAILERS	G-006	0	0	0	0	0	0	0	0	209	209
NON-PROCESS TRAILERS	G-007	0	0	0	0	0	0	0	0	897	897
PIPE BRIDGES	G-008	554	0	0	0	26	0	0	0	0	581
MISCELLANEOUS COMPLEX TOTAL		560	1,004	24	1	28	0	1	23	1,112	2,753
OU5 REMEDIAL ACTION COMPLEX											
HIGH NITRATE STORAGE TANK	18M	0	4	0	0	162	0	0	0	0	166
DISSOLVED OXYGEN BUILDING	18P	2	21	2	2	0	0	0	0	1	27
IAWWT VALVE HOUSE	18Q	5	48	4	3	0	0	0	0	2	61
PILOT PLANT AMMONIA TANK FARM	19B	8	41	0	0	95	0	0	0	0	144
SIX TO FOUR REDUCTION FACILITY #2	51	348	3,375	375	0	2,200	0	0	0	0	6,298
OU5 REMEDIAL ACTION COMPLEX TOTAL		363	3,490	381	4	2,457	0	0	0	3	6,698
PILOT PLANT COMPLEX											
PILOT PLANT WET SIDE	13A	42	193	20	4	674	0	22	1	52	1,007
PILOT PLANT MAINTENANCE BUILDING	13B	3	8	0	0	170	0	0	0	9	190
SUMP PUMP HOUSE	13C	1	6	1	0	9	0	0	0	1	18
PILOT PLANT THORIUM TANK FARM	13D	0	36	0	0	0	0	0	0	0	36
PILOT PLANT ANNEX	37	35	83	8	0	170	0	0	0	23	320
SIX TO FOUR REDUCTION FACILITY #1	54A	139	169	18	24	577	0	15	1	49	991
PILOT PLANT SHELTER	54B	6	4	0	3	0	0	0	0	1	14
PILOT PLANT DISSOCIATOR SHELTER	54C	6	15	1	3	0	0	0	0	0	25
PILOT PLANT WAREHOUSE	68	38	5	0	0	61	0	20	0	3	127
PILOT PLANT COMPLEX TOTAL		269	520	48	34	1,661	0	57	3	138	2,730
PLANT 1 COMPLEX											
PREPARATION PLANT	1A	403	433	43	88	368	0	150	3	32	1,521
PLANT 1 STORAGE SHELTER	1B	30	3	0	8	0	0	0	0	2	44
CHEMICAL WAREHOUSE	30A	152	47	0	1	9	0	99	0	25	333
DRUM STORAGE WAREHOUSE	30B	2	2	0	1	0	0	0	0	1	6
CP STORAGE WAREHOUSE	56A	33	13	0	9	0	0	0	0	13	68
STORAGE SHED (WEST)	56B	0	0	0	1	0	0	0	0	2	4
STORAGE SHED (EAST)	56C	0	0	0	2	0	0	0	0	3	5
QUONSET HUT #1	60	11	4	0	4	0	0	0	0	0	19
QUONSET HUT #2	61	6	2	0	3	0	0	0	0	0	12
QUONSET HUT #3	62	6	2	0	3	0	0	23	0	0	36
KC-2 WAREHOUSE	63	91	34	0	0	252	0	3	0	94	474
DRUM RECONDITIONING BUILDING	66	12	54	4	6	0	0	1	0	3	81
PLANT 1 THORIUM WAREHOUSE	67	29	4	0	5	0	0	0	0	3	40
GENERAL IN-PROCESS WAREHOUSE	71	57	25	0	0	148	0	0	0	84	313
DRUM STORAGE BUILDING	72	13	2	0	0	0	0	6	0	1	22
TENSION SUPPORT STRUCTURE #4	TS-004	100	17	0	0	0	0	0	0	5	123
TENSION SUPPORT STRUCTURE #5	TS-005	100	18	0	0	0	0	0	0	5	124
TENSION SUPPORT STRUCTURE #6	TS-006	11	3	0	0	0	0	0	0	1	15
PLANT 1 COMPLEX TOTAL		1,056	664	47	131	777	0	284	4	276	3,240
PLANT 2 COMPLEX											
ORE REFINERY PLANT	2A	911	1,313	110	62	667	28	227	2	76	3,396
METAL DISSOLVER BUILDING	2D	33	92	7	0	0	0	19	0	8	161
NFS STORAGE AND PUMP HOUSE	2E	1	74	0	0	21	0	0	0	1	96
COLD SIDE ORE CONVEYOR	2F	11	45	0	0	0	0	5	0	0	61
HOT SIDE ORE CONVEYOR	2G	10	59	0	0	0	0	3	0	0	72
WASTE OIL DECANT SHELTER	39B	6	1	0	1	0	0	0	0	0	8
PLANT 2 COMPLEX TOTAL		971	1,583	118	64	687	28	255	2	87	3,795
PLANT 3 COMPLEX											
INCINERATOR BUILDING	39A	46	15	1	0	0	0	33	0	5	100
INCINERATOR SPRINKLER RISER HOUSE	39C	1	6	0	0	9	0	0	0	0	15
OZONE BUILDING	3B	8	2	0	0	0	0	7	0	1	17
NAR CONTROL HOUSE	3C	18	71	0	0	0	0	23	0	5	116
NAR TOWERS	3D	93	378	0	0	0	0	1	1	1	474
HOT RAFFINATE BUILDING	3E	48	195	19	3	446	0	31	0	6	747
HARSHAW DIGESTION FUME RECOVERY	3F	30	17	0	0	0	0	0	0	0	48
REFRIGERATION BUILDING	3G	5	18	2	0	0	0	7	0	1	34
COMBINED RAFFINATE TANKS	3J	25	143	0	0	0	0	0	0	1	168
OLD COOLING WATER TOWER	3K	0	0	0	0	6	0	0	0	0	6
PLANT 3 COMPLEX TOTAL		272	843	23	4	460	0	101	2	20	1,725
PLANT 5 COMPLEX											
PLANT 4 WAREHOUSE	4B	41	18	0	11	0	0	0	0	2	72
SLAG RECYCLING BUILDING	55A	76	75	8	4	0	0	28	0	10	202
SLAG RECYCLING PIT/ELEVATOR	55B	14	7	1	1	0	0	6	0	0	29
METALS PRODUCTION PLANT	5A	1,246	2,319	239	127	1,443	0	394	4	113	5,885
PLANT 5 INGOT PICKLING	5B	14	35	4	2	0	0	0	0	0	56
PLANT 5 ELECTRICAL SUBSTATION	5C	2	16	1	1	0	0	0	0	0	20
WEST DERBY BREAKOUT/ SLAG MILLING	5D	381	297	31	16	17	0	0	0	1	743
PLANT 5 FILTER BUILDING	5E	9	3	0	5	0	0	0	0	2	20
PLANT 5 COVERED STORAGE PAD	5F	35	5	0	7	0	0	0	0	2	49
PLANT 5 INGOT STORAGE SHELTER	5G	6	1	0	2	0	0	0	0	0	9
PLANT 5 COMPLEX TOTAL		1,824	2,777	283	176	1,460	0	427	5	133	7,085
PLANT 6 COMPLEX											
METALS FABRICATION PLANT	6A	1,336	2,573	256	88	244	0	602	3	104	5,206
PLANT 6 COVERED STORAGE AREA	6B	11	2	0	2	0	0	0	0	0	15
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	3	4	0	3	0	0	0	0	0	11
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	2	2	0	2	0	0	0	0	0	6
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	3	8	1	3	0	0	0	0	0	16
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	5	77	8	3	0	0	0	1	1	94
PLANT 6 SUMP BUILDING	6G	90	161	17	6	16	0	2	0	4	296
PLANT 6 COMPLEX TOTAL		1,450	2,826	282	107	260	0	604	4	110	5,643
PLANT 8 COMPLEX											
PLANT 8 WAREHOUSE	80	25	12	0	11	0	0	0	0	1	49

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

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COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
RECOVERY PLANT	8A	575	929	88	34	533	0	190	3	119	2,471
PLANT 8 MAINTENANCE BUILDING	8B	8	4	0	0	125	0	1	0	11	150
ROTARY KILN/DRUM RECONDITIONING	8C	382	306	32	36	285	0	0	0	39	1,079
PLANT 8 RAILROAD FILTER BUILDING	8D	1	2	0	0	0	0	0	0	0	3
DRUM CONVEYOR SHELTER	8E	6	1	0	1	0	0	0	0	0	8
PLANT 8 OLD DRUM WASHER	8F	0	0	0	1	0	0	0	0	0	1
PLANT 8 COMPLEX TOTAL		997	1,254	120	82	943	0	192	4	170	3,762
REMOVAL ACTION 19 (2)											
PLANT 4 MAINTENANCE BUILDING	4C	25	72	8	0	0	0	16	0	1	123
REMOVAL ACTION 7											
TENSION SUPPORT STRUCTURE #1 (1)	TS-001	45	9	0	0	0	0	0	0	3	57
TENSION SUPPORT STRUCTURE #2 (1)	TS-002	68	2	0	0	0	0	0	0	4	74
TENSION SUPPORT STRUCTURE #3 (1)	TS-003	13	1	0	0	0	0	0	0	1	15
REMOVAL ACTION 7 TOTAL		126	13	0	0	0	0	0	0	8	146
SEWAGE TREATMENT PLANT COMPLEX											
CHLORINATION BUILDING	25A	0	2	0	0	20	0	0	0	1	23
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	2	0	0	0	0	0	0	0	2
SEWAGE LIFT STATION BUILDING	25C	1	1	0	0	22	0	0	0	1	25
U.V. DISINFECTION BUILDING	25D	0	2	0	0	25	0	0	0	0	28
DIGESTER AND CONTROL BUILDING	25E	7	10	1	0	193	0	0	0	2	214
SEWAGE TREATMENT PLANT COMPLEX TOTAL		8	16	1	1	260	0	0	0	5	292
TANK FARM COMPLEX											
MAIN TANK FARM	19A	54	132	0	0	182	0	0	0	0	370
TANK FARM CONTROL HOUSE	19C	3	4	0	1	36	0	0	0	3	47
OLD NORTH TANK FARM	19D	0	28	0	0	36	0	0	0	0	65
TANK FARM LIME SLITTER BUILDING	19E	7	5	0	1	0	0	0	0	0	13
TANK FARM COMPLEX TOTAL		64	168	1	2	254	0	0	0	4	494
THORIUM/PLANT 9 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	24	14	0	1	138	0	0	0	24	202
BUILDING 32 COVERED LOADING DOCK	32B	4	0	0	0	0	0	0	0	4	8
THORIUM WAREHOUSE	64	48	49	0	20	33	0	1	0	23	174
(OLD) PLANT 5 WAREHOUSE	65	66	23	0	13	0	0	0	0	13	115
BUILDING 65 WEST PAD	74L	0	0	0	0	204	0	0	0	0	204
D & D BUILDING	78	58	63	6	6	281	0	1	0	49	464
PLANT 9 WAREHOUSE	81	20	15	0	8	0	0	0	0	0	43
SPECIAL PRODUCTS PLANT	9A	492	1,167	116	104	6	0	201	2	80	2,168
PLANT 9 SUMP TREATMENT FACILITY	9B	8	20	2	0	6	0	9	0	2	48
PLANT 9 DUST COLLECTOR	9C	2	4	0	1	0	0	0	0	0	6
PLANT 9 SUBSTATION	9D	4	6	0	0	0	0	12	0	2	24
PLANT 9 CYLINDER SHED	9E	0	0	0	0	0	0	0	0	0	1
ELECTROSTATIC PRECIPITATOR	9F	1	3	0	1	0	0	1	0	0	6
THORIUM/PLANT 9 COMPLEX TOTAL		729	1,364	124	154	669	0	225	3	196	3,463
AT-GRADE AND BELOW-GRADE COMPLEXES											
GRID 1 COMPLEX											
DECONTAMINATION BUILDING	69	0	0	0	0	384	67	0	0	0	451
DECONTAMINATION PAD	74P	0	0	0	0	2,466	0	0	0	0	2,466
BUILDING 69 GRID	GRID 1	27	23	0	0	47	0	9	0	31	136
GRID 1 COMPLEX TOTAL		27	23	0	0	2,898	67	9	0	31	3,054
GRID 10 COMPLEX											
BOILER PLANT	10A	0	0	0	0	4,916	0	0	0	0	4,916
BOILER PLANT MAINTENANCE BUILDING	10B	0	0	0	0	179	0	0	0	0	180
WET SALT STORAGE BIN	10C	0	0	0	0	294	0	0	0	0	294
CONT. OIL/GRAPHITE BURN PAD	10D	0	0	0	0	146	0	0	0	0	146
WATER PLANT	20B	0	0	0	0	1,603	0	0	0	0	1,603
PROCESS WATER STORAGE TANK	20H	0	0	0	0	390	0	0	0	0	390
PROPANE STORAGE	38A	0	0	0	0	120	0	0	0	0	120
CYLINDER FILLING STATION	38B	0	0	0	0	10	0	0	0	0	10
BUILDING 10, 20, 38 GRID	GRID 10	53	73	27	0	269	0	5	0	30	458
GRID 10 COMPLEX TOTAL		53	73	27	0	7,929	0	6	0	30	8,118
GRID 11 COMPLEX											
MAIN MAINTENANCE BUILDING	12A	0	0	0	0	2,683	5	2	0	1	2,690
CYLINDER STORAGE BUILDING	12B	0	0	0	0	591	0	0	0	0	591
LUMBER STORAGE BUILDING	12C	0	0	0	0	169	0	0	0	0	169
MAINTENANCE BUILDING WAREHOUSE	12D	0	0	0	0	421	0	0	0	0	421
COAL PILE RUNOFF BASIN	18C	0	0	0	0	212	0	0	0	0	212
MAIN TANK FARM	19A	0	0	0	0	3,161	0	1	0	0	3,161
TANK FARM CONTROL HOUSE	19C	0	0	0	0	316	0	0	0	0	316
OLD NORTH TANK FARM	19D	0	0	0	0	115	0	0	0	0	115
TANK FARM LIME SLITTER BUILDING	19E	0	0	0	0	18	0	0	0	0	18
PUMP STATION AND POWER CENTER	20A	0	0	0	0	116	0	0	0	0	117
COOLING TOWERS	20C	0	0	0	0	690	0	0	0	0	690
RAILROAD ENGINE HOUSE	24B	0	0	0	0	186	0	0	0	0	186
BUILDING 12 NORTH PAD	74N	0	0	0	0	245	0	0	0	0	245
BUILDING 12, 19, 20 GRID	GRID 11	15	113	34	0	789	0	10	0	17	977
GRID 11 COMPLEX TOTAL		15	113	34	0	9,714	5	13	0	18	9,910
GRID 12 COMPLEX											
SLAG RECYCLING BUILDING	55A	0	0	0	0	203	0	0	0	0	204
SLAG RECYCLING PIT/ELEVATOR	55B	0	0	0	0	209	0	0	0	0	209
METALS PRODUCTION PLANT	5A	0	2	4	0	4,230	0	1	0	0	4,238
PLANT 5 INGOT PICKLING	5B	0	0	0	0	243	0	0	0	0	243
PLANT 5 ELECTRICAL SUBSTATION	5C	0	0	0	0	69	0	0	0	0	69
WEST DERBY BREAKOUT/ SLAG MILLING	5D	0	0	0	0	825	0	0	0	0	825
PLANT 5 FILTER BUILDING	5E	0	0	0	0	287	0	0	0	0	287
PLANT 5 COVERED STORAGE PAD	5F	0	0	0	0	637	0	0	0	0	637
PLANT 5 INGOT STORAGE SHELTER	5G	0	0	0	0	102	0	0	0	0	102
PLANT 5 EAST PAD	74G	0	0	0	0	176	0	0	0	0	176
PLANT 5 SOUTH PAD	74H	0	0	0	0	113	0	0	0	0	113
BUILDING 5 GRID	GRID 12	0	55	16	0	539	0	8	0	0	619
GRID 12 COMPLEX TOTAL		0	58	20	0	7,634	0	10	0	0	7,722

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

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COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 13 COMPLEX											
GREEN SALT PLANT	4A	7	0	0	0	4,456	3	1	0	0	4,467
PLANT 4 WAREHOUSE	4B	2	0	0	0	1,152	0	0	0	0	1,154
PLANT 4 MAINTENANCE BUILDING	4C	0	0	0	0	249	0	0	0	0	249
PLANT 4 PAD	74E	0	0	0	0	640	0	0	0	0	640
PLANT 7 PAD	74F	0	0	0	0	65	0	0	0	0	65
PLANT 7	7A	0	1	0	0	29,024	0	0	0	0	29,024
BUILDING 4, 7 GRID	GRID 13	0	57	24	0	1,545	0	18	0	0	1,645
GRID 13 COMPLEX TOTAL		9	58	24	0	37,131	3	19	0	1	37,245
GRID 14 COMPLEX											
SERVICE BUILDING	11	0	20	0	0	3,547	0	1	0	0	3,567
ADMINISTRATION BUILDING	14A	0	2	0	0	1,263	0	9	0	0	1,274
BUILDING 14 EOC GENERATOR SET	14B	0	0	0	0	6	0	0	0	0	6
ELECTRICAL SUBSTATION	16B	0	0	0	0	64	0	0	0	0	64
STORM SEWER LIFT STATION	22B	0	0	0	0	18	0	0	0	0	18
SECURITY BUILDING	28A	0	0	0	0	516	0	1	0	0	517
HUMAN RESOURCES BUILDING	28B	0	0	0	0	519	0	13	0	0	532
HEALTH AND SAFETY BUILDING	53A	0	4	0	0	3,572	0	20	0	0	3,596
IN-VIVO BUILDING	53B	0	0	0	0	915	0	0	0	0	915
BUILDING 11, 14, 28, 53 GRID	GRID 14	0	164	62	0	395	0	24	0	1	645
GRID 14 COMPLEX TOTAL		0	189	62	0	10,815	0	68	0	1	11,135
GRID 15 COMPLEX											
GUARD POST EAST OF T-81	28E	0	0	0	0	11	0	0	0	0	11
WEST PARKING LOT GRID	GRID 15	0	16	0	0	16	0	24	0	1	58
GRID 15 COMPLEX TOTAL		0	16	0	0	27	0	24	0	1	69
GRID 16 COMPLEX											
RAILROAD SCALE HOUSE	24A	0	0	0	0	306	0	0	0	0	306
QUONSET HUT #1	60	0	0	0	0	1,176	0	0	0	0	1,176
QUONSET HUT #2	61	0	0	0	0	154	0	0	0	0	154
QUONSET HUT #3	62	0	0	0	0	259	0	0	0	0	259
BUILDING 60, 61, 62 GRID	GRID 16	32	9	0	0	214	0	4	0	37	295
GRID 16 COMPLEX TOTAL		32	9	0	0	2,109	0	4	0	37	2,191
GRID 17 COMPLEX											
CP STORAGE WAREHOUSE	56A	0	0	0	0	578	0	0	0	0	578
BUILDING 56, PLANT 1 PAD GRID	GRID 17	785	44	0	0	159	0	10	0	14	1,011
GRID 17 COMPLEX TOTAL		785	44	0	0	737	0	10	0	14	1,589
GRID 18 COMPLEX											
CHEMICAL WAREHOUSE	30A	0	0	0	0	1,356	0	0	0	0	1,357
BUILDING 30 GRID	GRID 18	23	95	27	0	4,676	0	4	0	25	4,851
GRID 18 COMPLEX TOTAL		23	96	27	0	6,032	0	4	0	25	6,207
GRID 19 COMPLEX											
GENERAL SUMP	18B	0	0	1	0	309	133	0	0	0	443
BIODENITRIFICATION TOWERS	18D	0	0	0	0	358	0	0	0	0	358
ORE REFINERY PLANT	2A	23	5	2	0	3,951	323	1	0	0	4,305
GENERAL/REFINERY SUMP CONTROL BUILDING	2B	0	0	0	0	126	16	0	0	0	143
BULK LIME HANDLING BUILDING	2C	0	0	0	0	168	0	0	0	0	168
METAL DISSOLVER BUILDING	2D	0	0	0	0	230	23	0	0	0	253
COLD SIDE ORE CONVEYOR	2F	3	0	0	0	258	0	0	0	0	262
HOT SIDE ORE CONVEYOR	2G	0	0	0	0	78	0	0	0	0	78
INCINERATOR BUILDING	39A	0	0	0	0	186	0	0	0	0	186
WASTE OIL DECANT SHELTER	39B	0	0	0	0	505	0	0	0	0	505
INCINERATOR SPRINKLER RISER HOUSE	39C	0	0	0	0	5	0	0	0	0	5
MAINTENANCE BUILDING	3A	0	0	0	0	1,584	0	0	0	0	1,585
OZONE BUILDING	3B	0	0	0	0	108	0	0	0	0	108
NAR CONTROL HOUSE	3C	1	0	0	0	171	0	2	0	0	174
NAR TOWERS	3D	0	0	0	0	222	0	0	0	0	222
HOT RAFFINATE BUILDING	3E	0	0	0	0	1,047	17	0	0	0	1,065
HARSHAW DIGESTION FUME RECOVERY	3F	0	0	0	0	58	19	0	0	0	77
REFRIGERATION BUILDING	3G	1	0	0	0	64	0	0	0	0	64
REFINERY SUMP	3H	0	0	0	0	12	60	0	0	0	71
COMBINED RAFFINATE TANKS	3J	0	0	0	0	337	154	0	0	0	491
OLD COOLING WATER TOWER	3K	0	0	0	0	49	0	0	0	0	49
ELECTRICAL POWER CENTER BUILDING	3L	5	0	0	0	100	0	0	0	0	105
PLANT 2 EAST PAD	74A	0	0	0	0	290	0	0	0	0	290
PLANT 2 WEST PAD	74B	0	0	0	0	412	0	0	0	0	412
BUILDING 39A PAD	74W	0	0	0	0	206	0	0	0	0	206
BUILDING 2, 3 GRID	GRID 19	8	167	116	0	1,260	0	15	0	9	1,574
GRID 19 COMPLEX TOTAL		40	172	120	0	12,096	745	18	0	9	13,199
GRID 2 COMPLEX											
MAGNESIUM STORAGE BUILDING	32A	0	0	0	0	764	0	0	0	0	764
BUILDING 32 COVERED LOADING DOCK	32B	0	0	0	0	155	0	0	0	0	155
THORIUM WAREHOUSE	64	0	1	0	0	1,030	0	0	0	0	1,031
(OLD) PLANT 5 WAREHOUSE	65	0	0	0	0	610	0	0	0	0	610
BUILDING 65 WEST PAD	74L	0	0	0	0	845	0	0	0	0	845
BUILDING 64 EAST PAD & R.R. DOCK	74M	0	0	0	0	908	0	0	0	0	908
D & D BUILDING	78	0	0	0	0	425	0	0	0	0	425
BUILDING 32, 64, 65, 78 GRID	GRID 2	13	40	0	0	165	0	8	0	7	233
GRID 2 COMPLEX TOTAL		13	42	0	0	4,903	0	8	0	7	4,973
GRID 20 COMPLEX											
BDN EFFLUENT TREATMENT FACILITY	18H	0	0	0	0	101	0	0	0	0	101
PLANT 8 EAST PAD	74C	0	0	0	0	543	0	0	0	0	543
PLANT 8 WEST PAD	74D	0	0	0	0	369	0	0	0	0	369
PLANT 8 OLD METAL DISSOLVER PAD	74Q	0	0	0	0	64	31	0	0	0	94
PLANT 8 NORTH PAD	74R	0	0	0	0	154	0	0	0	0	154
PLANT 8 WAREHOUSE	80	0	0	0	0	852	0	0	0	0	852
RECOVERY PLANT	8A	0	6	1	0	3,025	0	2	0	0	3,034
PLANT 8 MAINTENANCE BUILDING	8B	0	0	0	0	106	0	0	0	0	106
ROTARY KILN/DRUM RECONDITIONING	8C	0	0	0	0	1,909	0	0	0	0	1,909
PLANT 8 RAILROAD FILTER BUILDING	8D	80	0	0	0	568	0	0	0	0	648
DRUM CONVEYOR SHELTER	8E	0	0	0	0	15	0	0	0	0	15
BUILDING 8, 80 GRID	GRID 20	4	73	70	0	822	0	16	0	4	989
GRID 20 COMPLEX TOTAL		83	79	71	0	8,529	31	18	0	4	8,815

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

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COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
GRID 21 COMPLEX											
LABORATORY	15A	0	35	2	0	7,148	0	38	0	2	7,224
LABORATORY CHEMICAL STORAGE BUILDING	15B	0	0	0	0	46	0	0	0	0	46
LABORATORY PAD	74V	0	0	0	0	101	0	0	0	0	101
BUILDING 15 GRID	GRID 21	0	60	22	0	42	0	5	0	0	128
GRID 21 COMPLEX TOTAL		0	94	24	0	7,337	0	43	0	2	7,500
GRID 22 COMPLEX											
NORTHWEST CORNER OF SITE GRID	GRID 22	21	8	0	0	26	0	3	0	23	81
GRID 23 COMPLEX											
EAST OF BUILDING 56 GRID	GRID 23	300	10	0	0	1	0	1	0	5	318
GRID 24 COMPLEX											
GUARD POST ON WEST END OF 2ND STREET	28D	0	0	0	0	2	0	0	0	0	2
PLANT 1 THORIUM WAREHOUSE	67	0	0	0	0	192	0	0	0	0	192
BUILDING 67 GRID	GRID 24	9	30	2	0	15	0	4	0	11	71
GRID 24 COMPLEX TOTAL		9	30	2	0	209	0	4	0	11	265
GRID 25 COMPLEX											
WELL HOUSE #1	20E	0	0	0	0	6	0	0	0	0	6
WELL HOUSE #2	20F	0	0	0	0	6	0	0	0	0	6
SCALE HOUSE AND WEIGH SCALE	22D	0	0	0	0	143	0	0	0	0	143
PUMP HOUSE-HP FIRE PROTECTION	26A	0	0	0	0	108	0	0	0	0	108
ELEVATED WATER STORAGE TANK	26B	0	0	0	0	661	0	0	0	0	661
RUST ENGINEERING BUILDING	45A	0	0	0	0	1,236	0	6	0	0	1,243
BUILDING 45, WEST WATER TOWER(26B) GRID	GRID 25	12	78	36	0	858	0	9	0	13	1,007
GRID 25 COMPLEX TOTAL		12	78	36	0	3,019	0	16	0	13	3,174
GRID 26 COMPLEX											
PILOT PLANT WET SIDE	13A	0	1	6	0	1,442	253	0	0	0	1,702
PILOT PLANT MAINTENANCE BUILDING	13B	0	0	0	0	188	0	0	0	0	188
SUMP PUMP HOUSE	13C	0	0	0	0	129	0	0	0	0	129
PILOT PLANT THORIUM TANK FARM	13D	0	0	0	0	249	0	0	0	0	249
PILOT PLANT AMMONIA TANK FARM	19B	0	0	0	0	473	0	0	0	0	473
WELL HOUSE #3	20G	0	0	0	0	6	0	0	0	0	6
PILOT PLANT ANNEX	37	0	0	0	0	771	0	0	0	0	771
SIX TO FOUR REDUCTION FACILITY #2	51	0	0	13	0	1,633	0	0	0	1	1,648
SIX TO FOUR REDUCTION FACILITY #1	54A	0	0	0	0	657	0	1	0	0	658
PILOT PLANT SHELTER	54B	0	0	0	0	187	0	0	0	0	187
PILOT PLANT DISSOCIATOR SHELTER	54C	0	0	0	0	86	0	0	0	0	86
PILOT PLANT WAREHOUSE	68	14	0	0	0	289	0	0	0	0	303
PILOT PLANT PAD	74U	0	0	0	0	235	0	0	0	0	235
BUILDING 51, 68, PILOT PLANT GRID	GRID 26	20	43	16	0	232	0	11	0	22	343
GRID 26 COMPLEX TOTAL		33	44	35	0	6,578	253	12	0	23	6,977
GRID 27 COMPLEX											
PREPARATION PLANT	1A	0	2	5	0	1,501	0	1	0	0	1,509
PLANT 1 STORAGE SHELTER	1B	0	0	0	0	983	0	0	0	0	983
PLANT 1 ORE SILOS	1C	0	0	0	0	581	0	0	0	0	581
NFS STORAGE AND PUMP HOUSE	2E	0	0	0	0	36	0	0	0	0	36
CONVEYOR TUNNEL (FROM PLANT 1)	2H	0	0	0	0	162	0	0	0	0	162
DRUM STORAGE WAREHOUSE	30B	0	0	0	0	27	0	0	0	0	27
DRUM RECONDITIONING BUILDING	66	0	0	0	0	276	0	1	0	0	277
GENERAL IN-PROCESS WAREHOUSE	71	0	0	0	0	1,478	0	0	0	0	1,478
DRUM STORAGE BUILDING	72	0	0	0	0	99	0	0	0	0	99
PLANT 1 STORAGE PAD	74T	0	0	0	0	20,900	0	0	0	0	20,900
BUILDING 1, 66, 71, 72 GRID	GRID 27	0	56	10	0	199	0	12	0	1	278
GRID 27 COMPLEX TOTAL		0	58	15	0	26,240	0	14	0	1	26,328
GRID 28 COMPLEX											
GUARD POST SOUTH OF BUILDING 51	28G	0	0	0	0	11	0	0	0	0	11
SOUTH OF PILOT PLANT GRID	GRID 28	0	1	0	0	4	0	6	0	0	11
GRID 28 COMPLEX TOTAL		0	1	0	0	15	0	6	0	0	22
GRID 29 COMPLEX											
10-PLEX NORTH SUBSTATION	16H	0	0	0	0	16	0	0	0	0	16
10-PLEX SOUTH SUBSTATION	16J	0	0	0	0	16	0	0	0	0	16
10-PLEX SEWAGE LIFT STATION	25J	0	0	0	0	18	0	0	0	0	18
SOUTH OF BUILDING 15 GRID	GRID 29	0	15	0	0	2	0	9	0	0	26
GRID 29 COMPLEX TOTAL		0	15	0	0	53	0	9	0	0	77
GRID 3 COMPLEX											
PLANT 9 PAD	74K	0	0	0	0	383	0	0	0	0	383
FINISHED PRODUCTS WAREHOUSE(4A)	77	0	0	0	0	1,067	0	0	0	0	1,067
PLANT 9 WAREHOUSE	81	64	0	0	0	677	0	0	0	0	741
SPECIAL PRODUCTS PLANT	9A	0	14	6	0	3,964	116	1	0	0	4,101
PLANT 9 SUMP TREATMENT FACILITY	9B	0	0	0	0	123	0	0	0	0	123
PLANT 9 DUST COLLECTOR	9C	0	0	0	0	44	0	0	0	0	44
PLANT 9 SUBSTATION	9D	0	0	0	0	67	0	0	0	0	67
PLANT 9 CYLINDER SHED	9E	0	0	0	0	2	0	0	0	0	2
ELECTROSTATIC PRECIPITATOR	9F	0	0	0	0	37	0	0	0	0	37
BUILDING 9, 77, 81 GRID	GRID 3	15	83	6	0	480	0	10	0	9	604
GRID 3 COMPLEX TOTAL		79	97	13	0	6,865	116	11	0	9	7,189
GRID 30 COMPLEX											
STORM WATER RETENTION BASIN	18E	0	0	0	0	0	0	0	0	32	32
IAWWT VALVE HOUSE	18Q	0	0	0	0	142	0	0	0	0	142
METEOROLOGICAL TOWER	23	0	0	0	0	3	0	0	0	0	3
STORM WATER RETENTION BASINS GRID	GRID 30	0	131	0	0	1	0	7	0	0	139
GRID 30 COMPLEX TOTAL		0	131	0	0	146	0	7	0	32	316
GRID 31 COMPLEX											
BDN SURGE LAGOON	18A	0	0	0	0	0	0	0	0	27	27
CLEARWELL PUMP HOUSE	18G	0	0	0	0	16	0	0	0	0	16
METHANOL TANK	18J	0	0	0	0	102	0	0	0	0	102
LOW NITRATE TANK	18K	0	0	0	0	0	0	0	0	5	5
HIGH NITRATE TANK	18L	0	0	0	0	0	0	0	0	5	5
HIGH NITRATE STORAGE TANK	18M	0	0	0	0	711	0	0	0	0	711
UTILITY TRENCH TO PIT AREA	22E	57	0	0	0	3,150	0	0	0	0	3,207
SILO 4	35A	0	1	0	0	0	0	0	0	0	1

TABLE B-4 OPERABLE UNIT 3 MATERIAL WEIGHT ESTIMATES (IN TONS)

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COMPONENT DESCRIPTION	COMPONENT	OU3 RI/FS MATERIAL CATEGORY A Accessible Metals	B Inaccessible Metals	C Process-Related Metals	D Painted Light-Gauge Metals	E Concrete	F Brick	G Non-Regulated ACM	H Regulated ACM	I Misc. Materials	COMPONENT/ COMPLEX TOTALS
WASTE PITS GRID	GRID 31	59	113	60	0	6	0	0	0	66	305
GRID 31 COMPLEX TOTAL		116	114	60	0	3,985	0	0	0	104	4,379
GRID 32 COMPLEX											
DISSOLVED OXYGEN BUILDING	18P	0	0	0	0	49	0	0	0	0	49
CHLORINATION BUILDING	25A	0	0	0	0	134	0	0	0	0	134
M.H.#175/EFFLUENT LINE/SAMPLING BUILDING	25B	0	0	0	0	38	0	0	0	0	38
U.V. DISINFECTION BUILDING	25D	0	0	0	0	89	0	0	0	0	89
DIGESTER AND CONTROL BUILDING	25E	0	0	0	0	478	0	0	0	0	478
SLUDGE DRYING BEDS	25F	4	1	0	0	469	0	0	0	0	474
PRIMARY SETTLING BASINS	25G	1	0	0	0	516	0	0	0	0	517
TRICKLING FILTERS	25H	0	2	0	0	215	0	0	0	0	217
SEWAGE TREATMENT PLANT INCINERATOR	39D	0	0	0	0	38	0	0	0	0	38
SEWER TREATMENT GRID	GRID 32	0	72	5	0	52	0	10	0	0	139
GRID 32 COMPLEX TOTAL		5	75	5	0	2,078	0	10	0	0	2,174
GRID 33 COMPLEX											
FIRE BRIGADE TRAINING CENTER BLDG.	73A	0	0	0	0	97	0	0	0	0	97
BUILDING 73 GRID	GRID 33	0	8	0	0	4	0	4	0	0	16
GRID 33 COMPLEX TOTAL		0	8	0	0	101	0	4	0	0	113
GRID 4 COMPLEX											
ELEVATED POTABLE STORAGE TANK	20D	0	0	0	0	657	0	0	0	0	657
TRUCK SCALE	22C	5	0	0	0	0	0	0	0	0	5
PLANT 6 WAREHOUSE	79	0	0	0	0	979	0	0	0	0	979
RECEIVING/INCOMING MATERIALS INSPECTION	82	0	0	0	0	809	0	0	0	0	809
BUILDING 79, 82, EAST WATER TOWER(20D) GRID	GRID 4	0	61	0	0	479	0	13	0	0	553
GRID 4 COMPLEX TOTAL		5	61	0	0	2,923	0	13	0	0	3,004
GRID 5 COMPLEX											
EAST OF MAIN SUB-STATION GRID	GRID 5	0	26	12	0	1,991	0	9	0	0	2,038
GRID 6 COMPLEX											
GAS METER BUILDING	22A	0	0	0	0	26	0	0	0	0	26
METALS FABRICATION PLANT	6A	490	32	25	0	22,044	202	4	0	2	22,800
PLANT 6 COVERED STORAGE AREA	6B	0	0	0	0	74	0	0	0	0	74
PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH)	6C	0	0	0	0	31	0	0	0	0	31
PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL)	6D	0	0	0	0	70	0	0	0	0	70
PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH)	6E	0	0	0	0	45	0	0	0	0	45
PLANT 6 SALT OIL HEAT TREAT BUILDING	6F	3	0	0	0	83	0	0	0	0	87
PLANT 6 SUMP BUILDING	6G	0	0	0	0	962	0	0	0	0	962
PLANT 6 PADS	74J	0	0	0	0	114	0	0	0	0	114
BUILDING 6 GRID	GRID 6	0	105	35	0	1,699	0	16	0	0	1,855
GRID 6 COMPLEX TOTAL		493	137	61	0	25,149	202	21	0	2	26,064
GRID 7 COMPLEX											
MAIN ELECTRICAL STATION	16A	0	0	0	0	409	0	0	0	1	411
ELECTRICAL PANELS AND TRANSFORMER	16C	0	0	0	0	3	0	0	0	0	3
MAIN ELECTRICAL SWITCH HOUSE	16D	0	0	0	0	56	0	0	0	0	56
MAIN ELECTRICAL TRANSFORMERS	16E	0	0	0	0	42	0	0	0	0	42
TRAILER SUBSTATION #1	16F	0	0	0	0	6	0	0	0	0	6
TRAILER SUBSTATION #2	16G	0	0	0	0	6	0	0	0	0	6
SEWAGE LIFT STATION BUILDING	25C	0	0	0	0	229	0	0	0	0	229
MAIN ELECTRICAL STRAINER HOUSE	26C	0	0	0	0	19	0	0	0	0	19
GUARD POST ON SOUTH END OF 'D' STREET	28C	0	0	0	0	2	0	0	0	0	2
ENGINE HOUSE/GARAGE	31A	0	0	0	0	422	0	1	0	0	423
OLD TRUCK SCALE	31B	0	0	0	0	274	0	0	0	0	274
HEAVY EQUIPMENT BUILDING	46	0	3	0	0	1,209	0	0	0	0	1,212
BUILDING 31, 46, MAIN SUB-STATION GRID	GRID 7	0	61	12	0	335	0	13	0	0	422
GRID 7 COMPLEX TOTAL		0	64	12	0	3,011	0	15	0	2	3,104
GRID 8 AND 15 COMPLEX											
PARKING LOT	89	0	0	0	0	28,340	0	0	0	0	28,340
GRID 8 COMPLEX											
SKEET RANGE BUILDING	28F	0	0	0	0	11	0	0	0	0	11
EAST PARKING LOT GRID	GRID 8	0	16	0	0	97	0	15	0	0	129
GRID 8 COMPLEX TOTAL		0	16	0	0	108	0	15	0	0	140
GRID 9 COMPLEX											
UTILITIES HEAVY EQUIPMENT BUILDING	10E	0	0	0	0	170	0	0	0	0	170
KC-2 WAREHOUSE	63	150	0	0	0	1,649	0	0	0	0	1,799
BUILDING 63 WEST PAD	74S	0	0	0	0	120	0	0	0	0	120
BUILDING 63 GRID	GRID 9	83	37	0	0	146	0	7	0	47	320
GRID 9 COMPLEX TOTAL		233	37	0	0	2,085	0	7	0	47	2,409
MISCELLANEOUS AT/BELOW GRADE COMPLEX											
ROADS	G-002	0	0	0	0	45,690	0	0	0	0	45,690
OPERABLE UNIT 3 TOTAL		15,041	25,431	2,589	1,259	307,758	1,448	3,760	68	4,545	361,900

NOTES:
(1) Component has been remediated.
(2) Does not include Plant 7 (7A) or Plant 7 Overhead Crane (7B) Quantities

APPENDIX C
OU3 QUANTITIES BY COMPONENT

Appendix C contains the detailed estimated material quantities for each OU3 component. The OU3 material quantities were retrieved from the forecasting module of the SWIFTS database on June 27, 1995. The report is summarized by material, material description, grade level, and feasibility study category for each component. The totals for unbulked volume, bulked volume, and weight are represented by grouping all distinct materials, material descriptions, grade levels, and RI/FS categories together. All work types, items, takeoff quantities, and elevations are then listed for each of the distinct materials, material descriptions, grade levels, and RI/FS categories. Use the following example as a guideline to understand this report.

EXAMPLE

Source: 22E 1	UTILITY TRENCH TO PIT AREA 1				Component Category: 10 2	
Material 3	Material Description 3	3 Grade Level	3 FS Cat	3 Unbulked Volume (CUFT)	3 Bulked Volume (CUFT)	3 Weight (TONS)
Work Type 4	Item 4	Takeoff Quantity 4			Elevation (FT) 4	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	234.38	3914.06	57.42
STEEL SLAB DEMO	STEEL COVER (TRENCH TOP)	57.42 TONS			.00	
5 CONCRETE	CONCRETE	BELOW GRADE	E	6 42000.00	7 54600.00	8 3150.00
CONCRETE TRENCH DEMO	TRENCH BOTTOM SLAB BELOW GRADE	1333.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS BELOW GRADE	222.22 CUYD			.00	

Header Description - The header is all the information contained in the box at the top of each page.

1. Within the header the source or component is listed. The source for this example is 22E - UTILITY TRENCH TO PIT AREA. All information below the header corresponds to source 22E.

2. The component category for the source is listed here. For source 22E the component category is 10. These component categories are listed in Appendix A.

3. The shaded region represents all distinct materials, material descriptions, grade levels, and RI/FS categories for that source. The unbulked volume, bulked volume, and weight are a summation of all the records having the same material, material description, grade level, and RI/FS category for that source.

4. Beneath the shaded region are the corresponding work type, item, takeoff quantity, and elevation for matching material, material description, grade level, and RI/FS categories.

5. As shown in the example, a component can have multiple records with the same material, material description, grade level, and RI/FS category for source 22E. The two concrete records for 22E are presented in the table below.

Record 1		Record 2	
Source	22E	Source	22E
Material	Concrete	Material	Concrete
Material Description	Concrete	Material Description	Concrete
Grade Level	Below Grade	Grade Level	Below Grade
RI/FS Category	E	RI/FS Category	E
Work Type	Concrete Trench Demo	Work Type	Concrete Trench
Item	Trench Bottom Slab	Item	Trench Walls
Takeoff Quantity	1,333.33 CUYD	Takeoff Quantity	222.22 CUYD
Elevation	.00	Elevation	.00

Since these two records have the same source, material, material description, grade level, and RI/FS category, the work type, item, takeoff quantity, and elevation are listed under the same shaded region that contains the appropriate material, material description, grade level and RI/FS category.

6. The unbulked volume in the shaded region is then calculated by adding the takeoff quantities for the two records (1,333.33 CUYD + 222.22 CUYD = 1,555.55 CUYD) and going to the unbulked volume conversion factors table (Table 3-5) to find the correct conversion factor. To find to correct conversion factor, one must know the material, material description, and takeoff quantity unit. In this case the material is concrete, the material description is concrete, and the takeoff quantity unit is CUYD. The unbulked volume conversion factor is 27; therefore the unbulked volume is 42,000 CUFT (1,555.55 x 27).

7. The bulked volume is determined by multiplying the unbulked volume by a bulking factor. In Table 3-7, the bulking factor for material concrete and material description concrete is 1.3. The bulked volume is 54,600 CUFT (42,000 x 1.3).

8. The weight is calculated similiar to the unbulked volume. By looking at the weight conversion factors table (Table 3-6), the conversion factor is 2.025. The weight is calculated by multiplying the takeoff quantity total (1,555.55 CUYD) by the conversion factor (2.025). The result is 3150 tons (1,555.55 x 2.025).

Source: 10A BOILER PLANT Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1799.95	30059.18	440.99

Work Type	Item	Takeoff Quantity	Elevation (FT)
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.40 TONS	572.00
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	1.20 TONS	572.00
ASH SILO	MISC. ANGLES	1.94 TONS	587.00
ASH SILO	W12 X 22 MEMBERS	4.18 TONS	587.00
ASH SILO	W12 X 35 MEMBERS	1.08 TONS	587.00
ASH SILO	W14 X 48 MEMBERS	3.36 TONS	587.00
ASH SILO	W18 X 60 MEMBERS	1.14 TONS	587.00
ASH SILO	W24 X 100 MEMBERS	1.90 TONS	587.00
COLUMN DEMO	W10 X 60 MEMBERS	9.42 TONS	587.00
COLUMN DEMO	W14 X 150 MEMBERS	59.49 TONS	587.00
COLUMN DEMO	W8 X 31 MEMBERS	31.88 TONS	587.00
COLUMN DEMO	W8 X 35 MEMBERS	1.05 TONS	587.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	19.79 TONS	587.00
FLOOR FRAMING DEMO	MISC STEEL	2.00 TONS	587.00
FLOOR FRAMING DEMO	MISC. ANGLES	2.00 TONS	587.00
FLOOR FRAMING DEMO	STEEL GRATING	2.50 TONS	587.00
FLOOR FRAMING DEMO	STEEL HANDRAILS	.96 TONS	587.00
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	5.11 TONS	587.00
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	.97 TONS	587.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	4.77 TONS	587.00
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	3.18 TONS	587.00
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	2.50 TONS	587.00
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	4.19 TONS	587.00
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	1.88 TONS	587.00
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	3.94 TONS	587.00
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	6.01 TONS	587.00
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	2.23 TONS	587.00
PRECIPITATORS	C-CHANNEL FRAMING	2.64 TONS	587.00
PRECIPITATORS	MISC. ANGLES	10.53 TONS	587.00
PRECIPITATORS	STEEL GRATING	4.50 TONS	587.00
PRECIPITATORS	W12 X 26 MEMBERS	3.33 TONS	587.00
PRECIPITATORS	W6 X 20 MEMBERS	2.40 TONS	587.00
PRECIPITATORS	W8 X 10 MEMBERS	1.48 TONS	587.00
PRECIPITATORS	W8 X 13 MEMBERS	1.86 TONS	587.00
PRECIPITATORS	W8 X 18 MEMBERS	.76 TONS	587.00
PRECIPITATORS	W8 X 31 MEMBERS	8.56 TONS	587.00
PRECIPITATORS	W8 X 31 MEMBERS	1.61 TONS	587.00
STAIR FRAMING DEMO	STAIR FRAMING	5.00 TONS	587.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	4.23 TONS	602.00
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	5.00 TONS	602.00
FLOOR FRAMING DEMO	MISC STEEL	5.00 TONS	602.00
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	1.04 TONS	602.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	3.75 TONS	602.00
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.59 TONS	602.00
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	1.63 TONS	602.00
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	1.02 TONS	602.00
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	1.55 TONS	602.00
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.84 TONS	602.00
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.07 TONS	602.00
FLOOR PLATING DEMO	STEEL GRATING	2.65 TONS	602.00
STAIR FRAMING DEMO	STAIR FRAMING	4.00 TONS	602.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	11.34 TONS				607.50
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	4.00 TONS				607.50
FLOOR FRAMING DEMO	MISC STEEL	3.00 TONS				607.50
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	1.02 TONS				607.50
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	3.18 TONS				607.50
FLOOR PLATING DEMO	STEEL GRATING	3.41 TONS				607.50
STAIR FRAMING DEMO	STAIR FRAMING	1.00 TONS				607.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	6.88 TONS				615.50
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	4.00 TONS				615.50
FLOOR FRAMING DEMO	MISC STEEL	2.50 TONS				615.50
FLOOR FRAMING DEMO	MISC. ANGLES	2.00 TONS				615.50
FLOOR FRAMING DEMO	STEEL HANDRAILS	1.92 TONS				615.50
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	1.47 TONS				615.50
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.78 TONS				615.50
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.22 TONS				615.50
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.00 TONS				615.50
FLOOR PLATING DEMO	STEEL GRATING	5.34 TONS				615.50
STAIR FRAMING DEMO	STAIR FRAMING	1.00 TONS				615.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.89 TONS				620.00
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	1.00 TONS				620.00
FLOOR FRAMING DEMO	MISC STEEL	1.50 TONS				620.00
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	1.02 TONS				620.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.27 TONS				620.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	4.26 TONS				630.25
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	3.00 TONS				630.25
FLOOR FRAMING DEMO	MISC STEEL	2.00 TONS				630.25
FLOOR FRAMING DEMO	MISC. ANGLES	1.00 TONS				630.25
FLOOR FRAMING DEMO	STEEL HANDRAILS	.72 TONS				630.25
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.76 TONS				630.25
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	5.85 TONS				630.25
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	5.34 TONS				630.25
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	5.17 TONS				630.25
FLOOR PLATING DEMO	STEEL GRATING	1.12 TONS				630.25
STAIR FRAMING DEMO	STAIR FRAMING	3.00 TONS				630.25
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.07 TONS				641.50
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	2.00 TONS				641.50
FLOOR FRAMING DEMO	MISC STEEL	1.50 TONS				641.50
FLOOR FRAMING DEMO	STEEL HANDRAILS	.29 TONS				641.50
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.32 TONS				641.50
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	.94 TONS				641.50
FLOOR PLATING DEMO	STEEL GRATING	1.13 TONS				641.50
STAIR FRAMING DEMO	STAIR FRAMING	.60 TONS				641.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	7.31 TONS				656.50
ROOF FRAMING DEMO	C-CHANNEL FRAMING	18.00 TONS				656.50
ROOF FRAMING DEMO	MISC STEEL	4.00 TONS				656.50
ROOF FRAMING DEMO	MISC. ANGLES	5.00 TONS				656.50
ROOF FRAMING DEMO	STEEL TRUSSES	19.65 TONS				656.50
ROOF FRAMING DEMO	TRUSS BRACING ANGLES	7.32 TONS				656.50
ROOF FRAMING DEMO	W10 X 21 MEMBERS	12.24 TONS				656.50
ROOF FRAMING DEMO	W10 X 25 MEMBERS	1.05 TONS				656.50
ROOF FRAMING DEMO	W12 X 27 MEMBERS	.88 TONS				656.50
ROOF FRAMING DEMO	W12 X 58 MEMBERS	2.31 TONS				656.50
ROOF FRAMING DEMO	W18 X 50 MEMBERS	.83 TONS				656.50

000085

Source: 10A BOILER PLANT Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ROOF FRAMING DEMO	W36 X 150 MEMBERS	1.50 TONS			656.50	
DOORS	DOORS	ABOVE GRADE	B	113.33	226.67	2.27
EXT DOOR DEMO	EXT DOORS (MAN & OH)	680.00 SQFT			587.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	114.88	229.76	19.31
ELECTRICAL DEMO	2" DIAMETER & LESS	121.82 LNFT			572.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4583.64 LNFT			572.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1257.27 LNFT			572.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	116.36 LNFT			572.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	964.55 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2346.36 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	91.82 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	707.27 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	375.45 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	79.09 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	91.82 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	212.73 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	80.00 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1167.27 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1033.64 LNFT			587.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	20.91 LNFT			602.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	474.55 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	240.00 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	329.09 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	1156.36 LNFT			607.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	347.27 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	182.73 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	40.91 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	347.27 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	232.73 LNFT			630.25	
ELECTRICAL DEMO	2" DIAMETER & LESS	751.82 LNFT			630.25	
ELECTRICAL DEMO	2" DIAMETER & LESS	7.27 LNFT			656.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	125.50	251.01	13.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	945.47 LNFT			587.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	756.25 LNFT			587.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			587.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			587.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	65.63 LNFT			602.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	228.91 LNFT			607.50	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	114.38 LNFT			620.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	23.71	47.43	1.97
ELECTRICAL DEMO	OVER 4" DIAMETER	144.93 LNFT			587.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	934.00	1868.00	5.84
ELECTRICAL DEMO	ELECTRICAL FIXTURES	78.00 EACH			572.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			572.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	98.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	73.00 EACH			587.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	62.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			587.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	35.00 EACH			607.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH			607.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			607.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			620.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			620.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	57.00 EACH			630.25	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	410.00	820.00	10.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	41.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	851.40	2979.90	4.18
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	946.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	4554.00	15939.00	19.30
EQUIPMENT DEMO	HVAC EQUIPMENT	5060.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	3485.70	12199.95	26.71
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3873.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	44250.30	154876.05	713.37
EQUIPMENT DEMO	PROCESS EQUIPMENT	49167.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	232.67	465.34	26.22
PIPING DEMO	2" DIAMETER & LESS	250.85 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	543.05 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	223.39 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	270.17 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	225.76 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	140.34 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	186.78 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	215.25 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	72.20 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	29.15 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	116.95 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	241.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	9.15 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	40.00 LNFT			572.00	

Source: 10A BOILER PLANT Component Category: 4

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	229.83 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	91.86 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	86.10 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	241.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	209.83 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	409.15 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	225.76 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	56.27 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	86.10 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	84.75 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	613.90 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	746.78 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	899.66 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	464.75 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	90.17 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	134.92 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	197.97 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	538.98 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	75.93 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	134.92 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	103.05 LNFT			572.00	
PIPING DEMO	2" DIAMETER & LESS	452.20 LNFT			572.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	681.51	1363.02	48.81
PIPING DEMO	2-1/2" TO 4" DIAMETER	397.47 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	131.87 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	599.20 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	178.80 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	219.73 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	156.80 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	330.53 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	164.80 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	156.80 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	94.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT			572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT			572.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	75.87	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	133.87	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	86.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	204.67	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	55.87	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	116.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	138.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	253.60	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	345.60	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	522.27	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	464.40	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	208.67	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	104.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	184.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	362.53	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	138.80	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	253.60	LNFT		572.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93	LNFT		572.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	94.60	331.10	.46
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	946.00	CUFT		.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	506.00	1771.00	2.14
EQUIPMENT DEMO	HVAC EQUIPMENT	5060.00	CUFT		.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	387.30	1355.55	2.97
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3873.00	CUFT		.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	4916.70	17208.45	79.26
EQUIPMENT DEMO	PROCESS EQUIPMENT	49167.00	CUFT		.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	25.85	51.70	2.91
PIPING DEMO	2" DIAMETER & LESS	250.85	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	543.05	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	223.39	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	38.98	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69	LNFT		572.00	
PIPING DEMO	2" DIAMETER & LESS	41.69	LNFT		572.00	

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Source: 10A BOILER PLANT Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity		Elevation (FT)		
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	270.17 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	225.76 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	140.34 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	186.78 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	215.25 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	72.20 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	29.15 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	116.95 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	241.69 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	9.15 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	40.00 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	229.83 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	91.86 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	86.10 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	241.69 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	209.83 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	409.15 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	225.76 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	56.27 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	86.10 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	41.69 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	84.75 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	613.90 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	746.78 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	899.66 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	464.75 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	90.17 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	134.92 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	197.97 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	538.98 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	75.93 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	134.92 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	103.05 LNFT		572.00		
PIPING DEMO	2" DIAMETER & LESS	452.20 LNFT		572.00		
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	75.72	151.45	5.42
PIPING DEMO	2-1/2" TO 4" DIAMETER	397.47 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	131.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT		572.00		

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity		Elevation (FT)		
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	599.20 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	178.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	219.73 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	156.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	330.53 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	164.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	156.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	94.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	75.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	133.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	86.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	204.67 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	55.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	116.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	138.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	253.60 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	345.60 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	522.27 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	464.40 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	208.67 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	104.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	184.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	362.53 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	138.80 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	253.60 LNFT		572.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	32.93 LNFT		572.00		
DUCTWORK	DUCTWORK	ABOVE GRADE	D	12.84	25.67	3.54
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	118.55 SQFT		572.00		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	93.09 SQFT		572.00		
HVAC DEMO	DUCTWORK DEMO (ROUND)	1034.91 SQFT		572.00		
HVAC DEMO	DUCTWORK DEMO (ROUND)	387.63 SQFT		572.00		

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Source: 10A BOILER PLANT Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (ROUND)	241.45 SQFT			572.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	283.64 SQFT			572.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	416.73 SQFT			572.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	2.11	4.23	.75
LEAD FLASHING DEMO	LEAD FLASHING	1500.00 LBS			587.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	83.33	166.67	1.67
LOUVER DEMO	EXT LOUVERS	500.00 SQFT			587.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	15.59	31.19	2.85
METAL WALL PANEL DEMO	EXT. METAL PANELS	7000.00 SQFT			587.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	2.67	5.35	.66
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1200.00 SQFT			587.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	594.00	772.20	44.55
CONCRETE SLAB DEMO	MISC. CONCRETE ITEMS	22.00 CUYD			630.25	
CONCRETE	CONCRETE	BELOW GRADE	E	6024.00	7831.20	451.80
CONCRETE EQUIPMENT FNDN DEMO	PEDESTALS/MISC FNDNS	.59 CUYD			.00	
CONCRETE SUMP DEMO	PIT FLOOR	6.30 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	28.15 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	11.96 CUYD			.00	
CONCRETE SUMP DEMO	SLEEVE PIT BOTTOM SLAB	20.00 CUYD			.00	
CONCRETE SUMP DEMO	SLEEVE PIT WALL 1	26.67 CUYD			.00	
CONCRETE SUMP DEMO	SLEEVE PIT WALL 2	20.00 CUYD			.00	
CONCRETE SUMP DEMO	SUMP	.44 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.30 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.94 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT FLOOR	.44 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.89 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.30 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	.59 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	.89 CUYD			.00	
CONCRETE TRENCH DEMO	E-SHAPE TRENCH WALLS	3.78 CUYD			.00	
CONCRETE TRENCH DEMO	L-SHAPE TRENCH FLOOR	1.94 CUYD			.00	
CONCRETE TRENCH DEMO	L-SHAPE TRENCH WALLS	3.89 CUYD			.00	
CONCRETE TRENCH DEMO	MAZE TRENCH WALLS	3.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	1.48 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	3.15 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	3.11 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	.89 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	8.80 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	6.22 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	1.83 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	1.78 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	.89 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	2.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	.15 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	1.33 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE TRENCH DEMO	TRENCH WALLS	14.07 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	16.59 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	1.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	3.78 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	3.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	4.89 CUYD			.00	
CONCRETE TRENCH DEMO	U-SHAPE TRENCH FLOOR	6.33 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 10"X1'	3.70 CUYD			.00	
STORM SEWER DEMO	TRENCH 2'6"X2'	3.70 CUYD			.00	
CONCRETE	CONCRETE BEAMS	BELOW GRADE	E	4402.00	5722.60	330.15
CONCRETE BEAM DEMO	BEAM B & C	44.44 CUYD			.00	
CONCRETE BEAM DEMO	BEAM D & E	3.56 CUYD			.00	
CONCRETE BEAM DEMO	STRUCTURAL FLOOR BEAMS	93.70 CUYD			.00	
CONCRETE BEAM DEMO	STRUCTURAL FLOOR BEAMS	21.33 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	20966.35	27256.26	1572.48
CONCRETE EQUIPMENT FNDN DEMO	AFTER COOLER FDNS	.44 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	DRYER FNDN G7-44	3.06 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN G7-32&33	3.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN G7-40	31.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN G7-40&41	1.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN G7-41	16.30 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC & ZEOLITE FNDN	2.37 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISCELLANEOUS FOUNDATIONS	.30 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN G3, G4, G7, G8	2.96 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN G7-19	.83 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN G7-20	3.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN G7-31	2.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN G7-42	23.70 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	SALT STORAGE FNDN	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	BASEMENT WALL FOOTING	155.04 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING (ELEVATOR FOUNDATION)	16.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	4.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	274.64 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTING B	21.78 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTING E	68.15 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTING H & D	72.59 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	6.72 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	1.20 CUYD			.00	
CONCRETE FOOTING DEMO	TYPE A ISOLATED FOOTINGS	1.00 CUYD			.00	
CONCRETE FOOTING DEMO	TYPE C ISOLATED FOOTINGS	7.11 CUYD			.00	
CONCRETE FOOTING DEMO	TYPE F ISOLATED FOOTINGS	6.72 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.37 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.48 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.15 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.11 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.25 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	8.30 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	4.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	4.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.67 CUYD			.00	

Source: 10A BOILER PLANT Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	2552.69	3318.49	191.45
CONCRETE SLAB DEMO	CONCRETE SLABS	81.10 CUYD			587.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	13.44 CUYD			602.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	4100.60	5330.78	307.55
CONCRETE SLAB DEMO	MASS FOOTING SLAB AT GRADE	82.96 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	12.44 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	56.47 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	4737.60	6158.88	355.32
CONCRETE SLAB DEMO	BASEMENT SLAB 3 TO 7	109.93 CUYD			.00	
CONCRETE SLAB DEMO	ELEVATOR SLAB	58.07 CUYD			.00	
CONCRETE SLAB DEMO	ELEVATOR SLAB	7.47 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	25314.00	32908.20	1898.55
CONCRETE WALL DEMO	BASEMENT WALL ON 3 & 7	163.33 CUYD			.00	
CONCRETE WALL DEMO	ELEVATOR WALLS	177.78 CUYD			.00	
CONCRETE WALL DEMO	ELEVATOR WALLS	17.78 CUYD			.00	
CONCRETE WALL DEMO	WALL ON H & F	578.67 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2333.33	3033.33	64.17
MASONRY WALL DEMO	MASONRY WALLS	3500.00 SQFT			587.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	31.25	62.50	.38
CEILING DEMO	CEILING DEMO	500.00 SQFT			587.00	
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	3200.00	4160.00	224.00
FIRE BRICK DEMO	FIRE BRICK IN BOILERS	9600.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	9.37	11.25	.45
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	450.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	933.33	1120.00	52.48
EXT TRANSITE DEMO	EXT TRANSITE PANELS	25600.00 SQFT			587.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	447.56	537.07	25.17
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	12276.00 SQFT			587.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	21.47	85.87	.05
HVAC DEMO	INSULATION	257.60 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	265.06	1060.24	.60
PIPING DEMO	INSULATION	3180.72 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	91.05	109.26	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	569.09 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	4.42	8.84	.14
ELECTRICAL CONDUIT DEMO	7C-10 CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-109 CONDUIT	120.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-11 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-2 CONDUIT	5.00 LNFT			.00	

Source: 10A BOILER PLANT Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL CONDUIT DEMO	7C-4 CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-5 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-65 CONDUIT	80.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-66 CONDUIT	75.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	7C-8 CONDUIT	5.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#2 GROUND	435.00 LNFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	150.00	300.00	3.96
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	2400.00 SQFT			587.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1250.00	2500.00	18.75
MISC. MATERIAL DEMO	MISC. DEBRIS	1250.00 CUFT			656.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	478.03	573.64	.72
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	569.09 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	1072.50	2145.00	21.45
WINDOW DEMO	WINDOWS	6435.00 SQFT			587.00	

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Source: 10B BOILER PLANT MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	41.14	687.09	10.08
COLUMN DEMO	W16 X 78 MEMBERS	2.50 TONS			580.50	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.38 TONS			580.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	3.70 TONS			580.50	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.00 TONS			580.50	
ROOF FRAMING DEMO	MISC STEEL	2.00 TONS			580.50	
ROOF FRAMING DEMO	MISC. ANGLES	.50 TONS			580.50	
DOORS	DOORS	ABOVE GRADE	B	35.00	70.00	.70
EXT DOOR DEMO	EXT DOORS (MAN & OH)	210.00 SQFT			580.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	9.29	18.58	1.56
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT			580.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	68.00	136.00	.43
ELECTRICAL DEMO	ELECTRICAL FIXTURES	34.00 EACH			580.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.06
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	11.70	40.95	.46
EQUIPMENT DEMO	HVAC EQUIPMENT	13.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2.70	9.45	.14
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1.80	6.30	1.27
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	14.14	28.27	1.59
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			580.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1.30	4.55	.05
EQUIPMENT DEMO	HVAC EQUIPMENT	13.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	.30	1.05	.02
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.20	.70	.14
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.57	3.14	.18
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			580.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	8.33	16.67	.17
LOUVER DEMO	EXT LOUVERS	50.00 SQFT			580.50	

Source: 10B BOILER PLANT MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	7.22	14.45	1.78
METAL WALL PANEL DEMO	EXT. METAL PANELS	3242.88 SQFT			580.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	5.50	10.99	1.36
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	2467.45 SQFT			580.50	
CONCRETE	CONCRETE	BELOW GRADE	E	10.50	13.65	.79
CONCRETE CURBING DEMO	INTEGRAL CURBING	.39 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1136.25	1477.13	85.22
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE CONDUIT ENCASEMENT	2.67 CUYD			.00	
CONCRETE FOOTING DEMO	INTEGRAL STRIP FOOTINGS	5.04 CUYD			.00	
CONCRETE FOOTING DEMO	INTEGRAL STRIP FOOTINGS	7.56 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	2.85 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	5.00 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	2.75 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1245.00	1618.50	93.17
CONCRETE SLAB DEMO	OUTSIDE STOOP CONCRETE SLABS	1.67 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	44.44 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	580.00	754.00	15.95
MASONRY WALL DEMO	MASONRY WALLS	870.00 SQFT			580.50	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	37.50	75.00	.45
CEILING DEMO	CEILING DEMO	600.00 SQFT			580.50	
TILE	FLOOR TILE	AT GRADE	G	6.67	8.00	.32
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	320.00 SQFT			.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	5.83	7.00	.32
INT TRANSITE DEMO	INT TRANSITE PANELS	280.00 SQFT			580.50	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	7.03	28.11	.02
PIPING DEMO	INSULATION	84.34 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	13.66	16.39	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	85.36 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			580.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	71.71	86.05	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	85.36 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	16.67	33.33	.33
WINDOW DEMO	WINDOWS	100.00 SQFT			580.50	

Source: 10C WET SALT STORAGE BIN Component Category: 4

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT) / Takeoff Quantity	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	7.17	119.76	1.76
MISC. STEEL DEMO	MISC ANGLE FRAMING			1.76 TONS	586.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.52	1.05	.09
ELECTRICAL DEMO	2" DIAMETER & LESS			80.00 LNFT	586.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.31	1.07	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT			.34 CUFT	.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14.40	50.40	.24
EQUIPMENT DEMO	PROCESS EQUIPMENT			16.00 CUFT	.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.24	8.48	.30
PIPING DEMO	2-1/2" TO 4" DIAMETER			45.00 LNFT	586.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.03	.12	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT			.34 CUFT	.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.60	5.60	.03
EQUIPMENT DEMO	PROCESS EQUIPMENT			16.00 CUFT	.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.47	.94	.03
PIPING DEMO	2-1/2" TO 4" DIAMETER			45.00 LNFT	586.00	
CONCRETE	CONCRETE	BELOW GRADE	E	48.30	62.79	3.62
CONCRETE SUMP DEMO	PIT WALLS			1.79 CUYD	.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1973.40	2565.42	148.01
CONCRETE GRADE BEAM DEMO	GRADE BEAM			46.51 CUYD	.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM			26.58 CUYD	.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	999.27	1299.05	74.95
CONCRETE SLAB DEMO	CONCRETE SLABS			30.23 CUYD	586.00	
CONCRETE SLAB DEMO	CONCRETE SLABS			6.78 CUYD	586.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1794.00	2332.20	134.55
CONCRETE SLAB DEMO	SLAB AT GRADE			41.56 CUYD	.00	
CONCRETE SLAB DEMO	STRUCTURAL CONCRETE SLAB			24.89 CUYD	.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	108.00	140.40	8.10
CONCRETE SLAB DEMO	ACCESS RAMP CONCRETE SLAB			4.00 CUYD	.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	598.59	778.17	44.89
CONCRETE WALL DEMO	CONCRETE WALLS			22.17 CUYD	586.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	.98	3.93	.00
PIPING DEMO	INSULATION			11.78 SQFT	.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	23.52	28.23	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT			147.01 CUFT	.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	123.49	148.19	.19

Source: 10C WET SALT STORAGE BIN Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	147.01 CUFT			.00	

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Source: 10D CONT. OIL/GRAPHITE BURN PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE	BELOW GRADE	E	76.00	98.80	5.70
CONCRETE CURBING DEMO	CONCRETE INTEGRAL CURBING	.81 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	2.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1848.00	2402.40	138.60
CONCRETE SLAB DEMO	SLAB AT GRADE	68.44 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	18.00	23.40	1.35
CONCRETE SLAB DEMO	BOTTOM SLAB	.67 CUYD			.00	

Source: 10E UTILITIES HEAVY EQUIPMENT BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.24	204.49	3.00
COLUMN DEMO	W12 X 40 MEMBERS	1.00 TONS			587.50	
ROOF FRAMING DEMO	W12 X 45 MEMBERS	2.00 TONS			587.50	
DOORS	DOORS	ABOVE GRADE	B	61.67	123.33	1.23
EXT DOOR DEMO	EXT DOORS (MAN & OH)	370.00 SQFT			587.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.79	3.58	.30
ELECTRICAL DEMO	2" DIAMETER & LESS	273.64 LNFT			587.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	18.00	36.00	.11
ELECTRICAL DEMO	ELECTRICAL FIXTURES	9.00 EACH			587.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.90	3.15	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.12
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.71	9.42	.53
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			587.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.52	1.05	.06
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			587.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.00	4.00	.04
LOUVER DEMO	EXT LOUVERS	12.00 SQFT			587.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	6.42	12.83	1.58
METAL WALL PANEL DEMO	EXT. METAL PANELS	2880.00 SQFT			587.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	4.46	8.91	1.10
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	2000.00 SQFT			587.50	
CONCRETE	CONCRETE	BELOW GRADE	E	108.00	140.40	8.10
CONCRETE TRENCH DEMO	CONCRETE TRENCH BOTTOM SLAB	4.00 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1010.00	1313.00	75.75
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE CONDUIT ENCASEMENT	1.56 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	17.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	16.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	1.48 CUYD			.00	

000101

Source: 10E UTILITIES HEAVY EQUIPMENT BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	1120.00	1456.00	84.00
CONCRETE SLAB DEMO	SLAB AT GRADE	41.48 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	24.00	31.20	1.80
CONCRETE SLAB DEMO	GUARD POST FNDN	.89 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	333.33	400.00	.75
INSULATION DEMO	INSULATION (BAT)	2000.00 SQFT			587.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	8.00	16.00	.16
WINDOW DEMO	WINDOWS	48.00 SQFT			587.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cst	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	163.84	2736.07	40.14
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	1.31 TONS			594.00	
MISC. STEEL DEMO	W10 X 19 MEMBERS	3.82 TONS			594.00	
MISC. STEEL DEMO	W12 X 26 MEMBERS	2.60 TONS			594.00	
ROOF FRAMING DEMO	METAL DECKING	6.72 TONS			594.00	
ROOF FRAMING DEMO	W12 X 14 MEMBERS	3.14 TONS			594.00	
ROOF FRAMING DEMO	W16 X 26 MEMBERS	1.35 TONS			594.00	
ROOF FRAMING DEMO	W21 X 55 MEMBERS	9.38 TONS			594.00	
ROOF FRAMING DEMO	W24 X 76 MEMBERS	1.79 TONS			594.00	
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	10.03 TONS			609.00	
DOORS	DOORS	ABOVE GRADE	B	622.00	1244.00	12.44
EXT DOOR DEMO	EXT DOORS (MAN & OH)	2808.00 SQFT			579.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	924.00 SQFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	217.38	434.77	36.54
ELECTRICAL DEMO	2" DIAMETER & LESS	23502.00 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	9712.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	380.47	760.93	41.34
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	4570.00 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1889.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	241.67	483.35	20.09
ELECTRICAL DEMO	OVER 4" DIAMETER	1045.00 LNFT			579.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	432.00 LNFT			594.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2462.00	4924.00	35.39
ELECTRICAL DEMO	ELECTRICAL FIXTURES	871.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	360.00 EACH			594.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	172.07	344.14	8.60
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	172.07 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1841.06	6443.71	11.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1841.06 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	11060.00	38710.00	33.68
EQUIPMENT DEMO	HVAC EQUIPMENT	11060.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	563.00	1970.50	2.00
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	563.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	8361.00	29263.50	49.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	8361.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	422.91	845.82	47.65
PIPING DEMO	2" DIAMETER & LESS	11611.00 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	4543.00 LNFT			594.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	4.32	8.64	.49
SANITARY SEWER DEMO	SN-1.5" DURIRON	40.00 LNFT			.00	

Source: 11 SERVICE BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
SANITARY SEWER DEMO	SN-1.5" DURIRON	50.00 LNFT		.00		
SANITARY SEWER DEMO	SN-7C-2"L1	5.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-13-2"M1	70.00 LNFT		.00		
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1134.22	2268.44	81.23
PIPING DEMO	2-1/2" TO 4" DIAMETER	7736.00 LNFT		579.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	3095.00 LNFT		594.00		
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	3.67	7.33	.26
SANITARY SEWER DEMO	SN-1.5" DURIRON	30.00 LNFT		.00		
SANITARY SEWER DEMO	SN-7B-4"L1	5.00 LNFT		.00		
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	2000.98	4001.97	88.37
PIPING DEMO	OVER 4" DIAMETER	3830.00 LNFT		579.00		
PIPING DEMO	OVER 4" DIAMETER	947.00 LNFT		594.00		
PIPING	PIPING (OVER 4")	BELOW GRADE	B	427.26	854.51	18.87
SANITARY SEWER DEMO	SN-7-8"M1	135.00 LNFT		.00		
SANITARY SEWER DEMO	SN-7D-8"C1 SOIL	70.00 LNFT		.00		
SANITARY SEWER DEMO	SN-7E-8"C1 SOIL	65.00 LNFT		.00		
SANITARY SEWER DEMO	SN-7F-12"C1 SOIL	65.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-10-12"M1	60.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-11-10"M1	10.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-12-6"M1	70.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-14-10"M1	390.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-2-8"M1	150.00 LNFT		.00		
SANITARY SEWER DEMO	SN-E25-9-8"M1	5.00 LNFT		.00		
DUCTWORK	DUCTWORK	ABOVE GRADE	D	222.96	445.93	61.52
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	36015.00 SQFT		579.00		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	8727.00 SQFT		594.00		
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.42	.85	.15
LEAD FLASHING DEMO	LEAD FLASHING	300.00 LBS		594.00		
LOUVERS	LOUVERS	ABOVE GRADE	D	62.67	125.33	1.25
LOUVER DEMO	EXT LOUVERS	280.00 SQFT		579.00		
LOUVER DEMO	EXT LOUVERS	96.00 SQFT		579.00		
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	9801.00	12741.30	735.08
CONCRETE BEAM DEMO	CONCRETE BEAMS	32.00 CUYD		594.00		
CONCRETE BEAM DEMO	CONCRETE BEAMS	223.00 CUYD		594.00		
CONCRETE BEAM DEMO	CONCRETE BEAMS	13.00 CUYD		594.00		
CONCRETE BEAM DEMO	CONCRETE BEAMS	4.00 CUYD		594.00		
CONCRETE BEAM DEMO	CONCRETE BEAMS	91.00 CUYD		609.00		
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	8019.00	10424.70	601.43
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	34.00 CUYD		579.00		
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	243.00 CUYD		579.00		
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	15.00 CUYD		579.00		
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	5.00 CUYD		579.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3931.44	5110.87	294.86

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE FOOTING DEMO	FOOTING A1	5.83 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B1	3.21 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C1	14.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING D1	21.91 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING E1	2.89 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F1	3.34 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING G1	3.33 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING H	2.17 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING H1	5.90 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING J1	3.91 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING L	11.74 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING M	5.44 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING N	2.72 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING X	9.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING Y	6.94 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING Z	1.39 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (B-G, J, K)	1.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (P, Q, R, S)	3.13 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (T, U, V, W)	7.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A	4.20 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A1	2.11 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL B1	1.32 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL C1	1.13 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL D1	1.51 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL E1	.49 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL F1	.53 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL G1	.82 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL H	.87 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL H1	.38 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL J1	1.27 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL L	3.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL M	1.88 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL N	1.05 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL X	.81 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL Y	4.20 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL Z	.81 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (B-G, J, K)	.54 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (P, Q, R, S)	.46 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (T, U, V, W)	.81 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A	1.29 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	B	45697.50	59406.75	3427.31
CONCRETE SLAB DEMO	CONCRETE STAIRS	91.00 CUYD			579.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	1086.00 CUYD			594.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	515.50 CUYD			609.00	
CONCRETE	CONCRETE SLABS	AT GRADE	B	43362.00	56370.60	3252.15
CONCRETE SLAB DEMO	CONCRETE SLABS	186.39 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	24.80 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	1315.28 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	79.53 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	B	84434.67	109765.07	2321.95

Source: 11 SERVICE BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
MASONRY WALL DEMO	MASONRY WALLS	11644.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	82162.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	4930.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	3373.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	24543.00 SQFT			594.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	260.81	521.63	3.13
CEILING DEMO	CEILING DEMO	4173.00 SQFT			579.00	
TILE	FLOOR TILE	ABOVE GRADE	G	750.42	900.50	36.02
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	36020.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	10.42	12.50	.50
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	500.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	372.92	1491.67	.84
HVAC DEMO	INSULATION	3602.00 SQFT			579.00	
HVAC DEMO	INSULATION	873.00 SQFT			594.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	620.94	2483.78	1.40
PIPING DEMO	INSULATION	7451.33 SQFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	12396.67	14876.00	27.89
INSULATION DEMO	INSULATION (RIGID)	31200.00 SQFT			594.00	
INSULATION DEMO	INSULATION (RIGID)	15800.00 SQFT			594.00	
INSULATION DEMO	INSULATION (RIGID)	27380.00 SQFT			609.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	37.00	74.00	.56
MISC. MATERIAL DEMO	MISC. DEBRIS	10.00 CUFT			594.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	27.00 CUFT			594.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	5540.33	11080.67	199.45
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	39104.00 SQFT			594.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	27380.00 SQFT			609.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	625.00	1250.00	12.50
WINDOW DEMO	WINDOWS	954.00 SQFT			579.00	
WINDOW DEMO	WINDOWS	2796.00 SQFT			579.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1454.00	24281.87	356.23
COLUMN DEMO	W8 X 20 MEMBERS	1.51 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.15 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL	2.00 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL	1.50 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			580.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.80 TONS			580.00	
MISC. STEEL DEMO	THREADED RODS	2.00 TONS			580.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	.55 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.23 TONS			580.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	26.79 TONS			580.00	
ROOF FRAMING DEMO	W12 X 19 MEMBERS	.33 TONS			580.00	
ROOF FRAMING DEMO	W8 X 13 MEMBERS	.19 TONS			580.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.04 TONS			580.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.10 TONS			580.00	
ROOF FRAMING DEMO	W8 X 28 MEMBERS	.53 TONS			580.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.00 TONS			580.00	
COLUMN DEMO	W18 X 64 MEMBERS	143.00 TONS			581.25	
COLUMN DEMO	W8 X 20 MEMBERS	4.00 TONS			581.25	
MISC. STEEL DEMO	MEDIUM FLOOR PLATE	12.10 TONS			581.25	
MISC. STEEL DEMO	MISC ANGLE FRAMING	10.00 TONS			581.25	
MISC. STEEL DEMO	MISC STEEL	10.00 TONS			581.25	
MISC. STEEL DEMO	MISC. ANGLES	5.00 TONS			581.25	
MISC. STEEL DEMO	STEEL HANDRAILS	1.00 TONS			581.25	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	98.33 TONS			581.25	
ROOF FRAMING DEMO	W12 X 19 MEMBERS	27.08 TONS			581.25	
STAIR FRAMING DEMO	STAIR FRAMING	3.00 TONS			581.25	
DOORS	DOORS	ABOVE GRADE	B	352.00	704.00	7.04
EXT DOOR DEMO	EXT DOORS (MAN & OH)	402.00 SQFT			580.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	664.00 SQFT			580.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1046.00 SQFT			581.25	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	147.71	295.42	24.82
ELECTRICAL DEMO	2" DIAMETER & LESS	826.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	228.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4186.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1241.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5149.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1246.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	35.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1079.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2122.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1399.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	380.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1033.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	603.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1556.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1155.45 LNFT			593.75	
ELECTRICAL DEMO	2" DIAMETER & LESS	324.55 LNFT			593.75	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	34.29	68.59	3.73
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	144.22 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	213.75 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	149.38 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	14.84 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	990.00	1980.00	6.19
ELECTRICAL DEMO	ELECTRICAL FIXTURES	11.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	114.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	39.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	33.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	32.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	54.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	82.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	45.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	43.00 EACH			601.25	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	100.00	200.00	2.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	5.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	770.00	1540.00	19.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	77.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	10.80	37.80	.08
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	12.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	405.00	1417.50	1.58
EQUIPMENT DEMO	HVAC EQUIPMENT	450.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	213.30	746.55	15.21
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	237.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5649.30	19772.55	32.87
EQUIPMENT DEMO	PROCESS EQUIPMENT	6277.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	98.72	197.44	11.12
PIPING DEMO	2" DIAMETER & LESS	1324.75 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	529.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	876.61 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	489.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	96.95 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	360.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	320.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	51.30	102.59	3.67
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	144.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	118.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	203.73 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	32.40	64.80	1.43
PIPING DEMO	OVER 4" DIAMETER	85.95 LNFT			581.25	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1.20	4.20	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	12.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	45.00	157.50	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	450.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	23.70	82.95	1.69
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	237.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	627.70	2196.95	3.65
EQUIPMENT DEMO	PROCESS EQUIPMENT	6277.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	10.97	21.94	1.24
PIPING DEMO	2" DIAMETER & LESS	1324.75 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	529.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	876.61 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	489.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	96.95 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	360.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	320.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	5.70	11.40	.41
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	144.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	118.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	203.73 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	3.60	7.20	.16
PIPING DEMO	OVER 4" DIAMETER	85.95 LNFT			581.25	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	49.02	98.04	13.53
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	824.00 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	732.36 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	184.73 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	666.18 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	79.27 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	635.63 SQFT			580.00	

Source: 12A MAIN MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	432.73 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	261.09 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	717.09 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	999.27 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	489.45 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	506.18 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	191.27 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	77.09 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	12.36 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	909.81 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	31.27 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	34.18 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	161.45 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	481.45 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	180.36 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	174.54 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	484.36 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	56.73 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	98.18 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	98.18 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	317.82 SQFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	33.33	66.67	.67
LOUVER DEMO	EXT LOUVERS	200.00 SQFT			580.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	1890.00	2457.00	141.75
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	30.00 CUYD			580.00	
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	40.00 CUYD			581.25	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	4936.50	6417.45	370.24
CONCRETE FOOTING DEMO	FOOTING (CRANE FNDN)	1.56 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (A1, 19, J1, 19)	2.22 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (A2-A18, J2-J18)	25.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (E2-E7 & END)	3.18 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (EXTERIOR)	7.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (F1 & F19)	1.30 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (F2-F18)	17.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (INTERIOR)	2.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (OTHERS)	5.44 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	23.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	56.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL (CRANE FNDN)	1.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	36.94 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	30834.00	40084.20	2312.55
CONCRETE SLAB DEMO	CONCRETE SLABS	105.64 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	31.52 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	633.47 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	62.01 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	279.68 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	29.69 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	24664.00	32063.20	678.26

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MASONRY WALL DEMO	MASONRY WALLS	580.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	290.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	5952.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	271.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	984.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	2620.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	1426.00 SQFT			581.25	
MASONRY WALL DEMO	MASONRY WALLS	6442.00 SQFT			581.25	
MASONRY WALL DEMO	MASONRY WALLS	666.00 SQFT			581.25	
MASONRY WALL DEMO	MASONRY WALLS	2420.00 SQFT			581.25	
MASONRY WALL DEMO	MASONRY WALLS	14632.00 SQFT			581.25	
MASONRY WALL DEMO	MASONRY WALLS	713.00 SQFT			581.25	
CONCRETE	ACID BRICK	AT GRADE	F	66.67	86.67	4.67
ACID BRICK DEMO	ACID BRICK IN DECONTAMINATION ROOM	200.00 SQFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	706.19	1412.38	8.47
CEILING DEMO	CEILING DEMO	3405.00 SQFT			580.00	
CEILING DEMO	CEILING DEMO	294.00 SQFT			580.00	
CEILING DEMO	CEILING DEMO	7600.00 SQFT			581.25	
TILE	FLOOR TILE	ABOVE GRADE	G	90.10	108.12	4.33
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	4325.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	43.94	52.72	2.11
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	2109.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	893.23	1071.87	50.23
EXT TRANSITE DEMO	EXT TRANSITE PANELS	24500.00 SQFT			581.25	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	1658.33	1990.00	91.54
INT TRANSITE DEMO	INT TRANSITE PANELS	79600.00 SQFT			581.25	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	2078.12	2493.75	116.85
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	57000.00 SQFT			581.25	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	81.98	327.90	.18
HVAC DEMO	INSULATION	983.71 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	61.24	244.98	.14
PIPING DEMO	INSULATION	734.94 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	151.76	182.11	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	948.48 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	26.88	53.75	.87
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	12.50 LNFT			.00	
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	125.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	11 #12 2.5" ELECTRICAL CONDUIT	20.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	12C-1 3" ELECTRICAL CONDUIT	9.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	12C-1 3" ELECTRICAL CONDUIT	75.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	12C-11 2.5" ELECTRICAL CONDUIT	45.00 LNFT			.00	

Source: 12A MAIN MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)	Elevation (FT)
ELECTRICAL CONDUIT DEMO	12C-12 3" ELECTRICAL CONDUIT	40.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-13 .75" ELECTRICAL CONDUIT	55.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-130 2" ELECTRICAL CONDUIT	7.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-131 3" ELECTRICAL CONDUIT	9.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-132 1.5" ELECTRICAL CONDUIT	11.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-133 3" ELECTRICAL CONDUIT	25.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-134 1" ELECTRICAL CONDUIT	17.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-135 1" ELECTRICAL CONDUIT	21.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-136 3" ELECTRICAL CONDUIT	15.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-137 3" ELECTRICAL CONDUIT	15.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-138 3" ELECTRICAL CONDUIT	15.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-16 1.25" ELECTRICAL CONDUIT	10.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-16B .75" ELECTRICAL CONDUIT	11.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-17 1.25" ELECTRICAL CONDUIT	24.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-17A 1" ELECTRICAL CONDUIT	12.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-17B .75" ELECTRICAL CONDUIT	28.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-18 1" ELECTRICAL CONDUIT	28.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-18A .75" ELECTRICAL CONDUIT	30.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-19 1.25" ELECTRICAL CONDUIT	26.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-19A .75" ELECTRICAL CONDUIT	15.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-19B 1" ELECTRICAL CONDUIT	12.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-19C .75" ELECTRICAL CONDUIT	18.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-2 .75" ELECTRICAL CONDUIT	9.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-24 3" ELECTRICAL CONDUIT	185.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-26 1.5" ELECTRICAL CONDUIT	28.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-26A 1.25" ELECTRICAL CONDUIT	9.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-26B 1" ELECTRICAL CONDUIT	9.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-27 1.5" ELECTRICAL CONDUIT	29.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-3 1.25" ELECTRICAL CONDUIT	22.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-31 3" ELECTRICAL CONDUIT	220.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-32 2.5" ELECTRICAL CONDUIT	55.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-33 .75" ELECTRICAL CONDUIT	26.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-34 1" ELECTRICAL CONDUIT	32.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-34A .75" ELECTRICAL CONDUIT	19.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-35 .75" ELECTRICAL CONDUIT	6.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-38 .75" ELECTRICAL CONDUIT	30.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-39 1" ELECTRICAL CONDUIT	31.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-4 .75" ELECTRICAL CONDUIT	60.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-40 .75" ELECTRICAL CONDUIT	5.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-41 1" ELECTRICAL CONDUIT	30.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-41A .75" ELECTRICAL CONDUIT	16.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-44 3" ELECTRICAL CONDUIT	17.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-45 .75" ELECTRICAL CONDUIT	80.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-49 1.5" ELECTRICAL CONDUIT	28.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-49A 1" ELECTRICAL CONDUIT	5.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-49B .75" ELECTRICAL CONDUIT	5.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-5 1.25" ELECTRICAL CONDUIT	30.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-53 2.5" ELECTRICAL CONDUIT	50.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-54 1.5" ELECTRICAL CONDUIT	25.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-55 1" ELECTRICAL CONDUIT	20.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-55A .75" ELECTRICAL CONDUIT	5.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-56 .75" ELECTRICAL CONDUIT	9.00 LNFT					.00
ELECTRICAL CONDUIT DEMO	12C-59 2.5" ELECTRICAL CONDUIT	56.00 LNFT					.00

Source: 12A MAIN MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL CONDUIT DEMO	12C-5A 1" ELECTRICAL CONDUIT	15.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-5B .75" ELECTRICAL CONDUIT	15.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-60 1.25" ELECTRICAL CONDUIT	18.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-60A 1" ELECTRICAL CONDUIT	7.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-60B .75" ELECTRICAL CONDUIT	9.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-61 .75" ELECTRICAL CONDUIT	39.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-62 1" ELECTRICAL CONDUIT	30.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-62A .75" ELECTRICAL CONDUIT	10.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-63 .75" ELECTRICAL CONDUIT	43.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-64 1.25" ELECTRICAL CONDUIT	15.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-68 3" ELECTRICAL CONDUIT	165.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-69 3" ELECTRICAL CONDUIT	165.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	12C-7 .75" ELECTRICAL CONDUIT	11.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	2 #12 ELECTRICAL CONDUITS	20.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	22C-497 4" ELECTRICAL CONDUIT	9.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	22C-502 2" ELECTRICAL CONDUIT	7.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	22C-508 2" ELECTRICAL CONDUIT	10.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	65.00 LNFT		.00		
ELECTRICAL GROUND DEMO	#2 GROUND	2150.00 LNFT		.00		
ELECTRICAL GROUND DEMO	#2 GROUND	120.00 LNFT		.00		
ELECTRICAL GROUND DEMO	#2 GROUND	78.00 LNFT		.00		
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	237.50	475.00	6.27
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	200.00 SQFT			580.00	
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	600.00 SQFT			580.00	
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	3000.00 SQFT			581.25	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	15008.17	18009.80	33.77
INSULATION DEMO	INSULATION (BAT)	4464.00 SQFT			580.00	
INSULATION DEMO	INSULATION (BAT)	6000.00 SQFT			580.00	
INSULATION DEMO	INSULATION (BAT)	79585.00 SQFT			581.25	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1733.00	3466.00	26.00
MISC. MATERIAL DEMO	MISC. DEBRIS	1183.00 CUFT			580.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			580.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	500.00 CUFT			581.25	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	796.72	956.07	1.20
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	948.48 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	750.00	1500.00	27.00
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	6000.00 SQFT			580.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	3000.00 SQFT			581.25	
WINDOWS	WINDOWS	ABOVE GRADE	I	489.00	978.00	9.78
WINDOW DEMO	WINDOWS	180.00 SQFT			580.00	
WINDOW DEMO	WINDOWS	549.00 SQFT			580.00	
WINDOW DEMO	WINDOWS	2205.00 SQFT			581.25	
WOOD	WOOD	ABOVE GRADE	I	200.00	400.00	3.00
MISC. MATERIAL DEMO	WOOD FRAMING	200.00 CUFT			581.25	

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Source: 12B CYLINDER STORAGE BUILDING Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.86	214.71	3.15
EXT WALL FRMNG DEMO	W12 X 31 MEMBERS	1.41 TONS			585.50	
FLOOR FRAMING DEMO	W12 X 50 MEMBERS	1.18 TONS			585.50	
FLOOR FRAMING DEMO	W8 X 35 MEMBERS	.56 TONS			585.50	
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			586.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.33	2.65	.22
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			585.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	83.33	166.67	1.67
LOUVER DEMO	EXT LOUVERS	500.00 SQFT			585.50	
CONCRETE	CONCRETE	ABOVE GRADE	E	756.00	982.80	56.70
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	28.00 CUYD			585.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6864.00	8923.20	514.80
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	4.59 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	6.96 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	146.22 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	96.44 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1019.90	1325.87	76.49
CONCRETE SLAB DEMO	SLAB AT GRADE	37.77 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	800.00	1040.00	22.00
MASONRY WALL DEMO	MASONRY WALLS	1200.00 SQFT			585.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	28.83	34.60	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	180.21 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	247.17	296.60	.56
INSULATION DEMO	INSULATION (RIGID)	1483.00 SQFT			585.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	20.00	40.00	.30
MISC. MATERIAL DEMO	MISC. DEBRIS	20.00 CUFT			585.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	151.38	181.65	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	180.21 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	123.58	247.17	4.45
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1483.00 SQFT			585.50	

Source: 12C LUMBER STORAGE BUILDING Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.49	409.05	6.00
COLUMN DEMO	W12 X 31 MEMBERS	1.30 TONS			584.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.16 TONS			584.00	
EXT WALL FRMNG DEMO	W8 X 17 MEMBERS	1.54 TONS			584.00	
MISC. STEEL DEMO	MISC STEEL	2.00 TONS			584.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.99	3.99	.33
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			584.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			584.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	3.33	6.67	.07
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			584.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.34	6.68	.83
METAL WALL PANEL DEMO	EXT. METAL PANELS	1500.00 SQFT			584.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	4.90	9.80	1.21
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	2200.00 SQFT			584.00	
CONCRETE	CONCRETE	BELOW GRADE	E	819.00	1064.70	61.43
CONCRETE CURBING DEMO	INTEGRAL TURNDOWN CURB	16.67 CUYD			.00	
CONCRETE CURBING DEMO	INTEGRAL TURNDOWN CURB	13.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1435.00	1865.50	107.62
CONCRETE SLAB DEMO	SLAB AT GRADE	53.15 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	15.93	19.12	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	99.59 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			584.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	83.66	100.39	.13
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	99.59 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	12.00	24.00	.24
WINDOW DEMO	WINDOWS	72.00 SQFT			584.00	

Source: 12D MAINTENANCE BUILDING WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	53.48	893.08	13.10
COLUMN DEMO	W12 X 31 MEMBERS	3.47 TONS			584.00	
METAL FRAMING DEMO	C-CHANNEL FRAMING	2.58 TONS			584.00	
METAL FRAMING DEMO	W8 X 17 MEMBERS	2.55 TONS			584.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.50 TONS			584.00	
MISC. STEEL DEMO	MISC STEEL	3.00 TONS			584.00	
DOORS	DOORS	ABOVE GRADE	B	27.00	54.00	.54
EXT DOOR DEMO	EXT DOORS (MAN & OH)	162.00 SQFT			584.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.97	11.95	1.00
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT			584.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	20.00	40.00	.13
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			584.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	70.00	140.00	1.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	7.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	8.00	28.00	.50
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	10.47	20.94	1.18
PIPING DEMO	2" DIAMETER & LESS	400.00 LNFT			584.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	52.29	104.58	3.74
PIPING DEMO	2-1/2" TO 4" DIAMETER	499.33 LNFT			584.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	41.03	82.05	1.81
PIPING DEMO	OVER 4" DIAMETER	97.95 LNFT			584.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	3.33	6.67	.07
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			584.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	11.40	22.81	2.82
METAL WALL PANEL DEMO	EXT. METAL PANELS	5120.00 SQFT			584.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.41	10.83	1.34
METAL WALL PANEL DEMO	INT. METAL PANELS	2430.00 SQFT			584.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	13.37	26.73	3.30
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	6000.00 SQFT			584.00	
CONCRETE	CONCRETE	BELOW GRADE	E	48.30	62.79	3.62
CONCRETE TRENCH DEMO	TRENCH FLOOR	.47 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	1.32 CUYD			.00	

Source: 12D MAINTENANCE BUILDING WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1362.76	1771.59	102.21
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)	2.37 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)	12.41 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	20.74 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (INTEGRAL)	2.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	4208.00	5470.40	315.60
CONCRETE SLAB DEMO	SLAB AT GRADE	155.56 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (RAMP)	.30 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	19.08	76.31	.04
PIPING DEMO	INSULATION	228.92 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	34.15	40.97	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	213.41 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1405.00	1686.00	3.16
INSULATION DEMO	INSULATION (RIGID)	8430.00 SQFT			584.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			584.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	179.26	215.12	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	213.41 CUFT			.00	

Source: 13A PILOT PLANT WET SIDE Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	169.73	2834.43	41.58
COLUMN DEMO	W8 X 24 MEMBERS	1.20 TONS			579.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.96 TONS			579.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.69 TONS			579.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.31 TONS			579.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.16 TONS			579.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.16 TONS			579.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	1.32 TONS			579.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			579.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.62 TONS			579.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	1.00 TONS			579.00	
COLUMN DEMO	W8 X 24 MEMBERS	1.20 TONS			589.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.30 TONS			589.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.24 TONS			589.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	1.92 TONS			589.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.81 TONS			589.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			589.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.58 TONS			589.00	
STAIR FRAMING DEMO	STAIR FRAMING	.50 TONS			589.00	
COLUMN DEMO	W8 X 24 MEMBERS	1.20 TONS			599.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.30 TONS			599.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.24 TONS			599.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	1.92 TONS			599.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.81 TONS			599.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			599.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.58 TONS			599.00	
STAIR FRAMING DEMO	STAIR FRAMING	.50 TONS			599.00	
COLUMN DEMO	W8 X 24 MEMBERS	1.20 TONS			609.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.30 TONS			609.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.24 TONS			609.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	1.92 TONS			609.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.81 TONS			609.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			609.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.58 TONS			609.00	
STAIR FRAMING DEMO	STAIR FRAMING	.50 TONS			609.00	
COLUMN DEMO	W8 X 24 MEMBERS	1.20 TONS			619.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.30 TONS			619.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.24 TONS			619.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	1.92 TONS			619.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.81 TONS			619.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			619.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.58 TONS			619.00	
STAIR FRAMING DEMO	STAIR FRAMING	.50 TONS			619.00	
DOORS	DOORS	ABOVE GRADE	B	112.00	224.00	2.24
EXT DOOR DEMO	EXT DOORS (MAN & OH)	672.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	51.75	103.49	8.70
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4054.55 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			579.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	760.00 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1063.64 LNFT			589.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	160.00	320.00	1.00
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	31.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			589.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	29.00 EACH			599.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	130.00	260.00	3.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	13.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	529.20	1852.20	3.51
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	588.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	53.10	185.85	.27
EQUIPMENT DEMO	HVAC EQUIPMENT	59.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	34.20	119.70	2.52
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	38.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14157.00	49549.50	70.47
EQUIPMENT DEMO	PROCESS EQUIPMENT	15730.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	28.27	56.53	3.19
PIPING DEMO	2" DIAMETER & LESS	1199.66 LNFT			579.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	1.05	2.09	.12
STORM SEWER DEMO	ST-2" CI	40.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1177.47	2354.94	84.33
PIPING DEMO	2-1/2" TO 4" DIAMETER	12493.33 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	13.09	26.18	.94
SANITARY SEWER DEMO	SN-3" DURIRON	15.00 LNFT			.00	
SANITARY SEWER DEMO	ST-4" DURIRON	20.00 LNFT			.00	
STORM SEWER DEMO	ST-3" CI	55.00 LNFT			.00	
STORM SEWER DEMO	ST-4"CI	35.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	301.51	603.02	13.32
PIPING DEMO	OVER 4" DIAMETER	799.78 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	58.80	205.80	.39
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	588.00 CUFT			.00	

Source: 13A PILOT PLANT WET SIDE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	5.90	20.65	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	59.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	3.80	13.30	.28
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	38.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1573.00	5505.50	7.83
EQUIPMENT DEMO	PROCESS EQUIPMENT	15730.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	3.14	6.28	.35
PIPING DEMO	2" DIAMETER & LESS	1199.66 LNFT			579.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	54.72	109.43	6.17
SUMP LIQUOR DEMO	SL-13-1000-2"T/W	1830.00 LNFT			.00	
SUMP LIQUOR DEMO	SL1-13-1000-2"T	260.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	130.83	261.66	9.37
PIPING DEMO	2-1/2" TO 4" DIAMETER	12493.33 LNFT			579.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	33.50	67.00	1.48
PIPING DEMO	OVER 4" DIAMETER	799.78 LNFT			579.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	12.14	24.28	3.35
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2436.35 SQFT			589.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.70	1.41	.25
LEAD FLASHING DEMO	LEAD FLASHING	500.00 LBS			579.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	3761.10	4889.43	282.08
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	48.24 CUYD			579.00	
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	45.98 CUYD			579.00	
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	45.08 CUYD			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1624.57	2111.94	121.84
CONCRETE CURBING DEMO	FOOTING CURBING	5.33 CUYD			.00	
CONCRETE CURBING DEMO	FOOTING CURBING	2.88 CUYD			.00	
CONCRETE CURBING DEMO	FOOTING CURBING	2.00 CUYD			.00	
CONCRETE CURBING DEMO	FOOTING CURBING	.33 CUYD			.00	
CONCRETE CURBING DEMO	FOOTING CURBING	1.56 CUYD			.00	
CONCRETE CURBING DEMO	PERIMETER CURBINGS	13.33 CUYD			.00	
CONCRETE SUMP DEMO	ADJACENT PIT/SUMP WALL	1.79 CUYD			.00	
CONCRETE SUMP DEMO	ADJACENT VALVE PIT	1.13 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.93 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	2.54 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.23 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	1.59 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	16.75 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS (5 SUMPS)	.78 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	1.94 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	3.56 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	1.94 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	.22 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE TRENCH DEMO	TRENCH WALLS	1.33 CUYD		.00		
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	2880.90	3745.17	216.07
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	36.95 CUYD		579.00		
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	35.22 CUYD		579.00		
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	34.53 CUYD		579.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	9084.63	11810.02	681.35
CONCRETE EQUIPMENT FNDN DEMO	OCTAGON FOUNDATION	6.15 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	3.63 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	2.37 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	4.74 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (EXT. TANK)	3.56 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (INTEGRAL)	7.67 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED, EXTERIOR)	1.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED, EXTERIOR)	2.22 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED, INTERIOR)	2.22 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	7.11 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	68.89 CUYD		.00		
CONCRETE FOUNDATION DEMO	FOUNDATION (OCTAGON RING/WALL)	11.11 CUYD		.00		
CONCRETE FOUNDATION DEMO	FOUNDATION (OCTAGON TANK)	8.96 CUYD		.00		
CONCRETE FOUNDATION DEMO	FOUNDATION (OCTAGONAL TANK)	1.85 CUYD		.00		
CONCRETE FOUNDATION DEMO	FOUNDATION (OCTAGONAL TANK)	3.63 CUYD		.00		
CONCRETE FOUNDATION DEMO	FOUNDATION (PULSE PUMP)	.78 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	18.81 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	53.12 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	68.06 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.33 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.55 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.84 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.70 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/ CURBING	.83 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/ CURBING	.30 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.25 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.44 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	4.00 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (EXT. TANK)	.89 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (INTEGRAL WALL)	20.15 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (TANK EQUIP)	1.04 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (TANK EQUIP)	1.33 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (TANK EQUIP)	4.15 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (TANK EQUIP)	1.78 CUYD		.00		
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	1520.10	1976.13	114.01
PRECAST SLAB DEMO	PRECAST SLABS	18.58 CUYD		579.00		
PRECAST SLAB DEMO	PRECAST SLABS	18.22 CUYD		579.00		
PRECAST SLAB DEMO	PRECAST SLABS	19.50 CUYD		579.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	8397.00	10916.10	629.78
CONCRETE SLAB DEMO	CONCRETE SLABS	107.96 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	100.23 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	102.81 CUYD		.00		

000121

Source: 13A PILOT PLANT WET SIDE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	117.60	152.88	8.82
CONCRETE WALL DEMO	UPTURN DIKE WALL	2.49 CUYD			.00	
CONCRETE WALL DEMO	UPTURN DIKE WALL	1.87 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2266.67	2946.67	62.33
MASONRY WALL DEMO	MASONRY WALLS	1122.27 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1177.46 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1100.27 SQFT			579.00	
PIPING	CLAY PIPING	BELOW GRADE	E	5.94	7.72	.42
STORM SEWER DEMO	ST-6" DRAIN TILE	70.00 LNFT			.00	
CONCRETE	ACID BRICK	AT GRADE	F	3610.60	4693.78	252.74
ACID BRICK DEMO	ACID BRICK OVERLAY	720.00 SQFT			.00	
ACID BRICK DEMO	ACID BRICK OVERLAY	9765.00 SQFT			.00	
ACID BRICK DEMO	ACID BRICK OVERLAY	324.00 SQFT			.00	
ACID BRICK DEMO	LINED ACID BRICK	22.80 SQFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	31.25	62.50	.38
CEILING DEMO	CEILING DEMO	500.00 SQFT			579.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	376.10	451.32	21.15
EXT TRANSITE DEMO	EXT TRANSITE PANELS	10316.00 SQFT			579.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	20.30	81.21	.05
HVAC DEMO	INSULATION	243.64 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	320.28	1281.12	.72
PIPING DEMO	INSULATION	3843.37 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	116.09	139.31	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	725.59 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1520.00	1824.00	3.42
INSULATION DEMO	INSULATION (RIGID)	9120.00 SQFT			579.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	200.00	400.00	3.00
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00 CUFT			579.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	609.49	731.39	.92
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	725.59 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	760.00	1520.00	27.36
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	9120.00 SQFT			579.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	868.67	1737.33	17.37
WINDOW DEMO	WINDOWS	5212.00 SQFT			579.00	

Source: 13B PILOT PLANT MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	11.82	197.47	2.90
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.91 TONS			579.33	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.25 TONS			579.33	
ROOF FRAMING DEMO	W8 X 20 MEMBERS	1.74 TONS			579.33	
DOORS	DOORS	ABOVE GRADE	B	50.83	101.67	1.02
EXT DOOR DEMO	EXT DOORS (MAN & OH)	305.00 SQFT			579.33	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.91	9.82	.82
ELECTRICAL DEMO	2" DIAMETER & LESS	750.00 LNFT			579.33	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.72	23.43	1.27
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			579.33	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	44.00	88.00	.28
ELECTRICAL DEMO	ELECTRICAL FIXTURES	22.00 EACH			579.33	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	10.80	37.80	.38
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	12.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	68.40	239.40	.82
EQUIPMENT DEMO	HVAC EQUIPMENT	76.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	25.91	51.82	2.92
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			579.33	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1.20	4.20	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	12.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	7.60	26.60	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	76.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	2.88	5.76	.32
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			579.33	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.15	.30	.04
HVAC DEMO	DUCTWORK DEMO (ROUND)	30.55 SQFT			579.33	
CONCRETE	CONCRETE	ABOVE GRADE	E	1620.00	2106.00	121.50
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	60.00 CUYD			579.33	
CONCRETE	CONCRETE	BELOW GRADE	E	181.50	235.95	13.61
CONCRETE SUMP DEMO	SUMP FLOOR	2.67 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.65 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	1.04 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	2.00 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	.37 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1396.97	1816.06	104.77

000123

Source: 13B PILOT PLANT MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE FOOTING DEMO	EXTERIOR STRIP FOOTINGS	8.89 CUYD			.00	
CONCRETE FOOTING DEMO	EXTERIOR STRIP FOOTINGS	4.89 CUYD			.00	
CONCRETE FOOTING DEMO	INTERIOR FOOTINGS	3.56 CUYD			.00	
CONCRETE FOOTING DEMO	INTERIOR FOOTINGS	1.33 CUYD			.00	
CONCRETE FOOTING DEMO	INTERIOR FOOTINGS	6.67 CUYD			.00	
CONCRETE GRADE BEAM DEMO	EXTERIOR GRADE BEAM	12.91 CUYD			.00	
CONCRETE GRADE BEAM DEMO	EXTERIOR GRADE BEAM	7.10 CUYD			.00	
CONCRETE GRADE BEAM DEMO	INTERIOR GRADE BEAM	.74 CUYD			.00	
CONCRETE GRADE BEAM DEMO	INTERIOR GRADE BEAM	1.97 CUYD			.00	
CONCRETE GRADE BEAM DEMO	INTERIOR GRADE BEAM	3.69 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	930.00	1209.00	69.75
CONCRETE SLAB DEMO	SLAB AT GRADE	34.44 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1746.00	2269.80	48.01
MASONRY WALL DEMO	MASONRY WALLS	2619.00 SQFT			579.33	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	15.50	31.00	.19
CEILING DEMO	CEILING DEMO	248.00 SQFT			579.33	
TILE	FLOOR TILE	AT GRADE	G	4.37	5.25	.21
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	210.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	25	1.02	.00
HVAC DEMO	INSULATION	3.05 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	12.05	48.19	.03
PIPING DEMO	INSULATION	144.58 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	14.42	17.30	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	90.11 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	310.00	372.00	.70
INSULATION DEMO	INSULATION (RIGID)	1860.00 SQFT			579.33	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			579.33	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	75.69	90.83	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	90.11 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	155.00	310.00	5.58
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1860.00 SQFT			579.33	
WINDOWS	WINDOWS	ABOVE GRADE	I	40.83	81.67	.82
WINDOW DEMO	WINDOWS	245.00 SQFT			579.33	

Source: 13C SUMP PUMP HOUSE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	4.08	68.16	1.00
FLOOR PLATING DEMO	HEAVY FLOOR PLATE	.50 TONS			579.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			579.00	
DOORS	DOORS	ABOVE GRADE	B	8.00	16.00	.16
EXT DOOR DEMO	EXT DOORS (MAN & OH)	48.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.99	3.99	.33
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	9.00	31.50	.06
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	10.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	.90	3.15	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	.90	3.15	.05
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	238.50	834.75	1.19
EQUIPMENT DEMO	PROCESS EQUIPMENT	265.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	25.91	51.82	2.92
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	20.84	41.67	1.49
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	21.33 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1.00	3.50	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	10.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	.10	.35	.01
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	26.50	92.75	.13
EQUIPMENT DEMO	PROCESS EQUIPMENT	265.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	2.88	5.76	.32
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	2.32	4.63	.17
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	21.33 LNFT			579.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.53	1.05	.14
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	105.45 SQFT			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	400.15	520.20	30.01

000125

Source: 13C SUMP PUMP HOUSE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE CURBING DEMO	TURNDOWN (CURBING)	.12 CUYD		.00		
CONCRETE SUMP DEMO	SUMP SLAB	1.56 CUYD		.00		
CONCRETE SUMP DEMO	SUMP SLAB (EXT. SUMP/PITS PUMP HOUSE)	9.33 CUYD		.00		
CONCRETE SUMP DEMO	SUMP WALLS (VALVE PIT)	2.00 CUYD		.00		
CONCRETE SUMP DEMO	SUMP WALLS (VALVE PIT)	1.81 CUYD		.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	H	1204.40	1565.72	90.33
CONCRETE FOOTING DEMO	FOOTINGS (WALL STRIP)	1.78 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS (WALL STRIP)	2.37 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.24 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.66 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM (W/GRATING)	20.22 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM (W/GRATING)	17.33 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	H	120.00	156.00	9.00
CONCRETE SLAB DEMO	SLAB AT GRADE (EQUIP. PAD)	.93 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE (PUMP BLDG.)	2.96 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE (STOOP)	.56 CUYD		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	H	333.33	433.33	9.17
MASONRY WALL DEMO	MASONRY WALLS	500.00 SQFT		579.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	.88	3.52	.00
HVAC DEMO	INSULATION	10.55 SQFT		.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	17.07	68.27	.04
PIPING DEMO	INSULATION	204.82 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	17.45	20.94	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	109.08 CUFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	91.62	109.95	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	109.08 CUFT		.00		
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	16.67	33.33	.60
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	200.00 SQFT		579.00		
WINDOWS	WINDOWS	ABOVE GRADE	I	2.00	4.00	.04
WINDOW DEMO	WINDOWS	12.00 SQFT		579.00		
WOOD	WOOD	ABOVE GRADE	I	25.00	50.00	.38
MISC. MATERIAL DEMO	WOOD FRAMING	25.00 CUFT		579.00		

Source: 13D PILOT PLANT THORIUM TANK FARM Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.72	23.43	1.27
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			579.33	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			590.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	9570.00	33495.00	26.60
EQUIPMENT DEMO	PROCESS EQUIPMENT	9570.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	29.20	58.39	3.29
PIPING DEMO	2" DIAMETER & LESS	1115.25 LNFT			579.33	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	57.25	114.49	4.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	546.67 LNFT			579.33	
CONCRETE	CONCRETE	BELOW GRADE	E	1237.50	1608.75	92.81
CONCRETE CURBING DEMO	FOOTING CURBING	45.83 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	370.00	481.00	27.75
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (3 OCT TANK PADS)	13.44 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (PUMP PAD)	.26 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	913.50	1187.55	68.51
CONCRETE SLAB DEMO	SLAB AT GRADE (DIKE PAD#4)	33.83 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	797.50	1036.75	59.81
CONCRETE WALL DEMO	WALL & TURNDOWN CURBING	29.54 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	24.10	96.39	.05
PIPING DEMO	INSULATION	289.16 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	40.97	49.17	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	256.09 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	215.12	258.14	.33
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	256.09 CUFT			.00	

000127

Source: 14A ADMINISTRATION BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	54.37	907.93	13.32
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	4.08 TONS			577.00	
MISC. STEEL DEMO	STAIR FRAMING	3.68 TONS			577.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	5.45 TONS			589.00	
ROOF FRAMING DEMO	W12 X 14 MEMBERS	.11 TONS			601.00	
DOORS	DOORS	ABOVE GRADE	B	525.00	1050.00	10.50
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1554.00 SQFT			577.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1596.00 SQFT			589.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	90.71	181.43	15.25
ELECTRICAL DEMO	2" DIAMETER & LESS	622.00 LNFT			566.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	6585.00 LNFT			577.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	6653.00 LNFT			589.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	158.75	317.50	17.25
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	121.00 LNFT			566.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1280.00 LNFT			577.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1294.00 LNFT			589.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	105.37	210.75	8.76
ELECTRICAL DEMO	OVER 4" DIAMETER	28.00 LNFT			566.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	320.00 LNFT			577.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	296.00 LNFT			589.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1026.00	2052.00	6.41
ELECTRICAL DEMO	ELECTRICAL FIXTURES	23.00 EACH			566.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	244.00 EACH			577.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	246.00 EACH			589.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	138.49	276.98	4.55
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	138.49 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	6240.49	21841.72	37.44
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6240.49 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1875.75	6565.13	7.51
EQUIPMENT DEMO	HVAC EQUIPMENT	1875.75 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	94.00	329.00	2.60
EQUIPMENT DEMO	PROCESS EQUIPMENT	94.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	193.52	387.04	21.81
PIPING DEMO	2" DIAMETER & LESS	4820.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	2572.00 LNFT			589.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	6.81	13.61	.77
STEAM CONDENSATE DEMO	CN-.75"	95.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1.25"	20.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1.5"	75.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1.5" SCH 80 IN A 6"C	70.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	202.95	405.89	14.54
PIPING DEMO	2-1/2" TO 4" DIAMETER	873.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1065.00 LNFT			589.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	6.28	12.57	.45
STEAM CONDENSATE DEMO	SN-3"	60.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	17.59	35.19	.78
PIPING DEMO	OVER 4" DIAMETER	38.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	4.00 LNFT			589.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	12.57	25.13	.56
SANITARY SEWER DEMO	SN-8"W	30.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	37.44	74.89	10.33
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	5834.00 SQFT			577.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1680.00 SQFT			589.00	
CONCRETE	CONCRETE	BELOW GRADE	E	2051.50	2669.55	154.01
CONCRETE CURBING DEMO	CONCRETE CURBING	53.83 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X2'	22.22 CUYD			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	5697.00	7406.10	427.28
CONCRETE BEAM DEMO	CONCRETE BEAMS	121.80 CUYD			589.00	
CONCRETE BEAM DEMO	CONCRETE BEAMS	89.20 CUYD			601.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	2602.80	3383.64	195.21
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	96.40 CUYD			577.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6455.73	8392.45	484.18
CONCRETE FOOTING DEMO	FOOTINGS A	21.90 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS B	47.64 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS C, D & E	59.68 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F	5.01 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS G	3.47 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS H	14.29 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS J	12.04 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS K	10.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS L	9.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS M	3.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS N	1.48 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS P	5.60 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS Q	3.75 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS R	4.25 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS S	3.77 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS T	8.80 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS U	11.53 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS W	6.48 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS X	.35 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS I & II	1.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS III & IV	.94 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS IIX	.35 CUYD			.00	

Source: 14A ADMINISTRATION BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS IX	.47 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS V	.37 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS VI & VII	1.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS X	.35 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS XI	.57 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	18678.60	24282.18	1400.90
CONCRETE SLAB DEMO	CONCRETE SLABS	31.70 CUYD			577.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	355.30 CUYD			589.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	304.80 CUYD			601.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	8304.00	10795.20	622.80
CONCRETE SLAB DEMO	SLAB AT GRADE	126.22 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	76.00 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	105.33 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	3888.00	5054.40	291.60
CONCRETE WALL DEMO	CONCRETE WALLS	144.00 CUYD			577.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	11989.33	15586.13	329.71
MASONRY WALL DEMO	MASONRY WALLS	8328.00 SQFT			577.00	
MASONRY WALL DEMO	MASONRY WALLS	8240.00 SQFT			577.00	
MASONRY WALL DEMO	MASONRY WALLS	1416.00 SQFT			589.00	
PIPING	CLAY PIPING	BELOW GRADE	E	22.49	29.24	1.57
SANITARY SEWER DEMO	SN-2"	110.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	125.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	30.00 LNFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	1859.38	3718.75	22.31
CEILING DEMO	CEILING DEMO	15850.00 SQFT			577.00	
CEILING DEMO	CEILING DEMO	13900.00 SQFT			589.00	
TILE	FLOOR TILE	ABOVE GRADE	G	188.33	226.00	9.04
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	8900.00 SQFT			.00	
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	140.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	189.54	227.45	9.10
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	9098.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	62.58	250.33	.14
HVAC DEMO	INSULATION	583.00 SQFT			577.00	
HVAC DEMO	INSULATION	168.00 SQFT			589.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	124.75	498.99	.28
PIPING DEMO	INSULATION	1496.97 SQFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	4.85	9.71	.16
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	230.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	270.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	280.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6"C SURROUNDING 1.5" STEAM COND.	70.00 LNFT			.00	

Source: 14A ADMINISTRATION BUILDING Component Category: 1

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	4764.75	9529.50	125.79
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	32616.00 SQFT			577.00	
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	43620.00 SQFT			589.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	3062.83	3675.40	6.89
INSULATION DEMO	INSULATION (RIGID)	18377.00 SQFT			601.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	4.00	8.00	.06
MISC. MATERIAL DEMO	MISC. DEBRIS	4.00 CUFT			601.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	1531.42	3062.83	55.13
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	18377.00 SQFT			601.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	626.67	1253.33	12.53
WINDOW DEMO	WINDOWS	1728.00 SQFT			577.00	
WINDOW DEMO	WINDOWS	2032.00 SQFT			589.00	

Source: 14B BUILDING 14 EOC GENERATOR SET Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.13	.26	.02
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			576.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	103.00	360.50	.62
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	103.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	168.00	588.00	1.71
EQUIPMENT DEMO	PROCESS EQUIPMENT	168.00 CUFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	20.00	26.00	1.50
CONCRETE CURBING DEMO	CURBING	.74 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	66.67	86.67	5.00
CONCRETE SLAB DEMO	SLAB AT GRADE	2.47 CUYD			.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	892.82	14910.03	218.74
COLUMN DEMO	W12 X 53 MEMBERS	14.42 TONS			579.00	
COLUMN DEMO	W12 X 65 MEMBERS	14.30 TONS			579.00	
COLUMN DEMO	W8 X 31 MEMBERS	1.03 TONS			579.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.34 TONS			579.00	
EXT WALL FRMNG DEMO	W6 X 15 MEMBERS	.37 TONS			579.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	9.89 TONS			579.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.10 TONS			579.00	
MISC. STEEL DEMO	STAIR FRAMING	3.15 TONS			579.00	
FLOOR FRAMING DEMO	W12 X 14 MEMBERS	22.40 TONS			594.00	
FLOOR FRAMING DEMO	W12 X 19 MEMBERS	4.18 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 119 MEMBERS	6.21 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	9.24 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.60 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 74 MEMBERS	5.33 TONS			594.00	
FLOOR FRAMING DEMO	W16 X 31 MEMBERS	4.56 TONS			594.00	
FLOOR FRAMING DEMO	W21 X 112 MEMBERS	3.16 TONS			594.00	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	7.10 TONS			594.00	
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	16.88 TONS			594.00	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	2.07 TONS			594.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.50 TONS			594.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	22.46 TONS			594.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	2.04 TONS			594.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	8.25 TONS			607.00	
ROOF FRAMING DEMO	METAL DECKING	10.96 TONS			607.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	9.18 TONS			607.00	
ROOF FRAMING DEMO	W14 X 26 MEMBERS	9.63 TONS			607.00	
ROOF FRAMING DEMO	W16 X 31 MEMBERS	2.95 TONS			607.00	
ROOF FRAMING DEMO	W18 X 35 MEMBERS	2.26 TONS			607.00	
ROOF FRAMING DEMO	W21 X 44 MEMBERS	1.90 TONS			607.00	
ROOF FRAMING DEMO	W24 X 55 MEMBERS	14.20 TONS			607.00	
ROOF FRAMING DEMO	W24 X 68 MEMBERS	1.23 TONS			607.00	
ROOF FRAMING DEMO	W24 X 94 MEMBERS	1.70 TONS			607.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.65 TONS			607.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	5.50 TONS			607.00	
DOORS	DOORS	ABOVE GRADE	B	738.33	1476.67	24.77
EXT DOOR DEMO	EXT DOORS (MAN & OH)	3737.00 SQFT			579.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	693.00 SQFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	221.27	442.55	37.19
ELECTRICAL DEMO	2" DIAMETER & LESS	3886.00 LNFT			567.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	29202.00 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	720.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	387.24	774.48	42.07
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	756.00 LNFT			567.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	5678.00 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	140.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	245.93	491.86	20.44
ELECTRICAL DEMO	OVER 4" DIAMETER	173.00 LNFT			567.00	

000133

Source: 15A LABORATORY Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	OVER 4" DIAMETER	1298.00 LNFT			579.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	32.00 LNFT			594.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	3058.00	6116.00	19.11
ELECTRICAL DEMO	ELECTRICAL FIXTURES	144.00 EACH			567.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1352.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	33.00 EACH			594.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	290.81	581.62	12.02
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	290.81 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1880.95	6583.31	11.29
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2089.94 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	11718.90	41016.15	66.05
EQUIPMENT DEMO	HVAC EQUIPMENT	13021.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1377.90	4822.65	6.89
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1531.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	8698.50	30444.75	38.84
EQUIPMENT DEMO	PROCESS EQUIPMENT	9665.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1436.92	2873.85	161.92
PIPING DEMO	2" DIAMETER & LESS	20137.50 LNFT			567.00	
PIPING DEMO	2" DIAMETER & LESS	5782.50 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	20137.50 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	9145.00 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	5782.50 LNFT			594.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	10.47	20.94	1.18
FUEL GAS DEMO	FG-.5"	30.00 LNFT			.00	
LIVE STEAM DEMO	LS-1"	30.00 LNFT			.00	
LIVE STEAM DEMO	LS1-8-.75"	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	CW-.75"	65.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-.75"	20.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	HW-.5"	25.00 LNFT			.00	
PIPING DEMO	DA-.5"	25.00 LNFT			.00	
PIPING DEMO	DA-.75"	30.00 LNFT			.00	
PROCESS WATER DEMO	PA-.5"	30.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-2"	10.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2"CI	35.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-.75"	10.00 LNFT			.00	
VENT LINE DEMO	VA-.5"	60.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1466.68	2933.37	105.04
PIPING DEMO	2-1/2" TO 4" DIAMETER	3641.00 LNFT			567.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2950.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3641.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	5330.00 LNFT			607.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	272.79	545.59	19.54
FUEL GAS DEMO	FG-NO SIZE	30.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HIGH PRESSURE FIRE LINE DEMO	FQ-3"	180.00 LNFT			.00	
LIVE STEAM DEMO	LS1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	CW-NO SIZE	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	HW	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	LW-3"	390.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	LW-4"	1040.00 LNFT			.00	
PROCESS WATER DEMO	PA	30.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-3"	105.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-4"	320.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-4"CI	220.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3"CI	45.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"CI SOIL PIPE	65.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-NO SIZE	30.00 LNFT			.00	
VENT LINE DEMO	VA	30.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	1551.32	3102.63	68.51
PIPING DEMO	OVER 4" DIAMETER	1585.00 LNFT			567.00	
PIPING DEMO	OVER 4" DIAMETER	2275.00 LNFT			594.00	
PIPING DEMO	OVER 4" DIAMETER	255.00 LNFT			607.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	314.16	628.32	13.88
LOW PRESSURE FIRE LINE DEMO	LW-6"	130.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-6"	120.00 LNFT			.00	
SANITARY SEWER DEMO	SAN-6"VCP	120.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"CI SOIL PIPE	40.00 LNFT			.00	
STORM SEWER DEMO	ST-10"CI SOIL PIPE	80.00 LNFT			.00	
STORM SEWER DEMO	ST-12"CI SOIL PIPE	40.00 LNFT			.00	
STORM SEWER DEMO	ST-5"CI SOIL PIPE	40.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI SOIL PIPE	80.00 LNFT			.00	
STORM SEWER DEMO	ST-8"CI SOIL PIPE	100.00 LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	208.99	731.48	1.25
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2089.94 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1302.10	4557.35	7.34
EQUIPMENT DEMO	HVAC EQUIPMENT	13021.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	153.10	535.85	.77
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1531.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	966.50	3382.75	4.32
EQUIPMENT DEMO	PROCESS EQUIPMENT	9665.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	159.66	319.32	17.99
PIPING DEMO	2" DIAMETER & LESS	20137.50 LNFT			567.00	
PIPING DEMO	2" DIAMETER & LESS	5782.50 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	20137.50 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	9145.00 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	5782.50 LNFT			594.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	.79	1.57	.09
SUMP LIQUOR DEMO	SL-2"	30.00 LNFT			.00	

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Source: 15A LABORATORY Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	162.96	325.93	11.67
PIPING DEMO	2-1/2" TO 4" DIAMETER	3641.00 LNFT			567.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2950.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3641.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	5330.00 LNFT			607.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	23.04	46.08	1.65
COOLING WATER RETURN DEMO	WR-2.5"	65.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-3"	15.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-4"	55.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-2.5"	15.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-4"	55.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-3"	15.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	172.37	344.74	7.61
PIPING DEMO	OVER 4" DIAMETER	1585.00 LNFT			567.00	
PIPING DEMO	OVER 4" DIAMETER	2275.00 LNFT			594.00	
PIPING DEMO	OVER 4" DIAMETER	255.00 LNFT			607.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	536.74	1073.49	148.10
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	10771.00 SQFT			567.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	70010.00 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	21542.00 SQFT			594.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	5385.00 SQFT			607.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.43	24.86	3.07
METAL WALL PANEL DEMO	EXT. METAL PANELS	5580.00 SQFT			594.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	12.25	24.50	3.03
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	5500.00 SQFT			607.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1139.33	1481.13	85.45
CONCRETE SUMP DEMO	SUMP SLAB	6.52 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	3.26 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	7.11 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'6"X3'5"	25.31 CUYD			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	16140.60	20982.78	1210.55
CONCRETE BEAM DEMO	CONCRETE BEAMS	36.00 CUYD			579.00	
CONCRETE BEAM DEMO	PRECAST CONCRETE BEAMS	40.80 CUYD			579.00	
CONCRETE BEAM DEMO	CONCRETE BEAMS	355.00 CUYD			590.00	
CONCRETE BEAM DEMO	CONCRETE BEAMS	166.00 CUYD			590.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	1917.00	2492.10	143.78
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	9.80 CUYD			567.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	41.70 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	19.50 CUYD			579.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	26657.36	34654.57	1999.30
CONCRETE FOOTING DEMO	FOOTINGS (BASEMENT)	204.17 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (NORTH ADDTION)	313.06 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A	3.79 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE FOOTING DEMO	FOOTINGS B	4.17	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS C	25.88	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS D	31.34	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS E	6.94	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS F	7.66	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS G	5.60	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS H	12.25	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS J	8.33	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS K	65.33	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS L	5.84	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS M	11.12	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS N	1.96	CUYD	.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	250.22	CUYD	.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	22.36	CUYD	.00		
CONCRETE PEDESTAL DEMO	PEDESTALS (BASEMENT)	7.29	CUYD	.00		
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	27691.20	35998.56	2076.84
CONCRETE SLAB DEMO	CONCRETE SLABS	311.00	CUYD	579.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	362.00	CUYD	590.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	178.00	CUYD	590.00		
CONCRETE SLAB DEMO	PRECAST SLABS	17.00	CUYD	590.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	157.60	CUYD	594.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	42811.20	55654.56	3210.84
CONCRETE SLAB DEMO	CONCRETE SLABS	1142.10	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	443.50	CUYD	.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	11666.67	15166.67	875.00
CONCRETE SLAB DEMO	BASEMENT SLAB	74.07	CUYD	.00		
CONCRETE SLAB DEMO	BASEMENT SLAB	218.52	CUYD	.00		
CONCRETE SLAB DEMO	TUNNEL SLABS	139.51	CUYD	.00		
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	51.30	66.69	3.85
CONCRETE WALL DEMO	CONCRETE WALLS	1.90	CUYD	590.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	12117.33	15752.53	908.60
CONCRETE WALL DEMO	TUNNEL WALLS	223.21	CUYD	.00		
CONCRETE WALL DEMO	WALLS (BASEMENT N.E.)	28.05	CUYD	.00		
CONCRETE WALL DEMO	WALLS (BASEMENT)	197.53	CUYD	.00		
CONCRETE	MASONRY	BELOW GRADE	E	2328.89	3027.55	64.04
MASONRY WALL DEMO	MASONRY WALLS	1453.33	SQFT	.00		
MASONRY WALL DEMO	MASONRY WALLS	1520.00	SQFT	.00		
MASONRY WALL DEMO	MASONRY WALLS	520.00	SQFT	.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	39015.33	50719.93	1072.92
MASONRY WALL DEMO	MASONRY WALLS	39834.00	SQFT	579.00		
MASONRY WALL DEMO	MASONRY WALLS	18689.00	SQFT	579.00		
PIPING	CLAY PIPING	BELOW GRADE	E	62.81	81.65	4.40
SANITARY SEWER DEMO	SN-12"VCP	40.00	LNFT	.00		
SANITARY SEWER DEMO	SN-6"VCP	120.00	LNFT	.00		
STORM SEWER DEMO	ST-10"	15.00	LNFT	.00		

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STORM SEWER DEMO	ST-10"VCP	70.00 LNFT		.00		
STORM SEWER DEMO	ST-15"	60.00 LNFT		.00		
STORM SEWER DEMO	ST-3"	10.00 LNFT		.00		
STORM SEWER DEMO	ST-4"	130.00 LNFT		.00		
STORM SEWER DEMO	ST-5"	25.00 LNFT		.00		
STORM SEWER DEMO	ST-5"	40.00 LNFT		.00		
STORM SEWER DEMO	ST-6"	60.00 LNFT		.00		
STORM SEWER DEMO	ST-6"VCP	10.00 LNFT		.00		
STORM SEWER DEMO	ST-8"	160.00 LNFT		.00		
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	4321.25	8642.50	51.86
CEILING DEMO	CEILING DEMO	56248.00 SQFT		579.00		
CEILING DEMO	CEILING DEMO	12892.00 SQFT		594.00		
TILE	FLOOR TILE	AT GRADE	G	797.40	956.87	38.28
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	34693.00 SQFT		.00		
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	3582.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	32.34	38.81	1.82
EXT TRANSITE DEMO	EXT TRANSITE PANELS	887.00 SQFT		594.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	9.37	11.25	.52
INT TRANSITE DEMO	INT TRANSITE PANELS	450.00 SQFT		594.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	897.42	3589.67	2.02
HVAC DEMO	INSULATION	1077.00 SQFT		567.00		
HVAC DEMO	INSULATION	7000.00 SQFT		579.00		
HVAC DEMO	INSULATION	2154.00 SQFT		594.00		
HVAC DEMO	INSULATION	538.00 SQFT		607.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1184.30	4737.21	2.66
PIPING DEMO	INSULATION	14211.64 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	136.10	165.72	.21
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	863.12 CUFT		.00		
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	46.52	93.05	1.51
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	485.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	100.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	740.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	90.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	600.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	390.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1.5"C ALUMINUM	20.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	220.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	65.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	UNIDENTIFIED ELECTRICAL CONDUIT	2200.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	UNIDENTIFIED ELECTRICAL CONDUIT	335.00 LNFT		.00		
ELECTRICAL GROUND DEMO	#2 GROUND	3285.00 LNFT		.00		
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	5964.25	11928.50	157.46
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	79140.00 SQFT		579.00		
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	16288.00 SQFT		594.00		

Source: 15A LABORATORY Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	13327.50	15993.00	29.99
INSULATION DEMO	INSULATION (RIGID)	21956.00 SQFT			590.00	
INSULATION DEMO	INSULATION (RIGID)	35516.00 SQFT			590.00	
INSULATION DEMO	INSULATION (BAT)	5000.00 SQFT			594.00	
INSULATION DEMO	INSULATION (BAT)	4400.00 SQFT			607.00	
INSULATION DEMO	INSULATION (RIGID)	13093.00 SQFT			607.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	31.00	62.00	.47
MISC. MATERIAL DEMO	MISC. DEBRIS	22.00 CUFT			590.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	9.00 CUFT			607.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	725.02	870.02	1.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	863.12 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	6004.00	12008.00	216.14
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	56931.00 SQFT			590.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	2024.00 SQFT			590.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	201.00 SQFT			607.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	12892.00 SQFT			607.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	1002.00	2004.00	20.04
WINDOW DEMO	WINDOWS	5409.00 SQFT			579.00	
WINDOW DEMO	WINDOWS	603.00 SQFT			579.00	

Source: 15B LABORATORY CHEMICAL STORAGE BUILDING Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	13.22	220.71	3.24
COLUMN DEMO	TUBE STEEL FRAMING	.33 TONS			579.00	
EXT WALL FRMNG DEMO	MISC ANGLE FRAMING	.13 TONS			579.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.13 TONS			579.00	
ROOF FRAMING DEMO	W8 X 10 MEMBERS	.44 TONS			579.00	
ROOF FRAMING DEMO	W8 X 15 MEMBERS	.63 TONS			579.00	
ROOF FRAMING DEMO	W8 X 15 MEMBERS	.55 TONS			579.00	
ROOF FRAMING DEMO	W8 X 18 MEMBERS	.59 TONS			579.00	
ROOF FRAMING DEMO	W8 X 18 MEMBERS	.44 TONS			579.00	
DOORS	DOORS	ABOVE GRADE	B	12.67	25.33	.25
EXT DOOR DEMO	EXT DOORS (MAN & OH)	24.00 SQFT			579.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	52.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.40	6.81	.57
ELECTRICAL DEMO	2" DIAMETER & LESS	520.00 LNFT			579.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	20.00	40.00	.13
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	12.76	44.66	.08
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	12.76 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	273.60	957.60	2.90
EQUIPMENT DEMO	HVAC EQUIPMENT	273.60 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	208.00	728.00	1.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	208.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.07	14.14	.80
PIPING DEMO	2" DIAMETER & LESS	270.00 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	3.67	7.33	.26
PIPING DEMO	2-1/2" TO 4" DIAMETER	35.00 LNFT			579.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	3.49	6.98	.96
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	700.00 SQFT			579.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	4.17	8.33	.08
LOUVER DEMO	EXT LOUVERS	8.00 SQFT			579.00	
LOUVER DEMO	EXT LOUVERS	17.00 SQFT			579.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	2.55	5.10	.63
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	528.00 SQFT			579.00	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	616.00 SQFT			579.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	287.25	373.43	21.54
CONCRETE FOOTING DEMO	FOOTINGS	.89 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.53 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	330.00	429.00	24.75

Source: 15B LABORATORY CHEMICAL STORAGE BUILDING Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE SLAB DEMO	SLAB AT GRADE	12.22 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	868.67	1129.27	23.89
MASONRY WALL DEMO	MASONRY WALLS	810.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	256.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	237.00 SQFT			579.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	5.83	23.33	.01
HVAC DEMO	INSULATION	70.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.71	14.84	.01
PIPING DEMO	INSULATION	44.51 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	.76	.91	.00
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	4.74 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	3.98	4.76	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	4.74 CUFT			.00	

Source: 16A MAIN ELECTRICAL STATION Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	98.04	1637.28	24.02
MISC. STEEL DEMO	MISC ANGLE FRAMING	24.02 TONS			578.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	16.04	32.07	2.70
ELECTRICAL DEMO	2" DIAMETER & LESS	2450.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	71.27	142.55	7.74
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1210.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	29.45	58.90	2.45
ELECTRICAL DEMO	OVER 4" DIAMETER	180.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	24.00	48.00	.15
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			578.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	4011.00	14038.50	27.52
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4011.00 CUFT			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3996.70	5195.71	299.75
CONCRETE FOOTING DEMO	FOOTINGS ('A' FRAME)	32.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (2 'A' FRAMES)	32.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (TOWER FNDN.)	32.70 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (TRANSFORMER FNDN.)	8.89 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (TRANSFORMER FNDN.)	6.52 CUYD			.00	
CONCRETE FOUNDATION DEMO	FOUNDATION (CIRCUIT BREAKER)	8.89 CUYD			.00	
CONCRETE FOUNDATION DEMO	FOUNDATION (CIRCUIT BREAKER)	9.33 CUYD			.00	
CONCRETE FOUNDATION DEMO	FOUNDATION (LIGHTING ARREST)	9.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS ('A' FRAME)	.15 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (2 'A' FRAMES)	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (TOWER FNDN.)	5.40 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (TRANSFORMER FNDN.)	2.22 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	1836.00	2385.80	137.70
CONCRETE WALL DEMO	CONCRETE WALLS	68.00 CUYD			578.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	1456.00	1892.80	109.20
CONCRETE WALL DEMO	FIRE WALLS (TRANSFORMER FNDN.)	22.81 CUYD			.00	
CONCRETE WALL DEMO	FIRE WALLS (TRANSFORMER FNDN.)	31.11 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	1.70	2.21	.12
STORM SEWER DEMO	ST-36"	20.00 LNFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	45.21	90.43	1.47
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	3725.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	185.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	555.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2.5" ELECTRICAL CONDUIT	15.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	5" ELECTRICAL CONDUIT	425.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#2 GROUND	2050.00 LNFT			.00	

Source: 16A MAIN ELECTRICAL STATION Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL GROUND DEMO	#4 GROUND	1335.00 LNFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
WOOD	WOOD	ABOVE GRADE	I	294.48	588.96	4.42
ELECTRICAL DEMO	UTILITY POLES	294.48 CUFT			578.00	

000143

Source: 16B ELECTRICAL SUBSTATION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.91	48.67	.71
ROOF FRAMING DEMO	METAL DECKING	.71 TONS			577.00	
DOORS	DOORS	ABOVE GRADE	B	7.00	14.00	.14
EXT DOOR DEMO	EXT DOORS (MAN & OH)	42.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.88	5.76	.48
ELECTRICAL DEMO	2" DIAMETER & LESS	440.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.59	1.18	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	1.64	3.27	.14
ELECTRICAL DEMO	OVER 4" DIAMETER	10.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	22.00	44.00	.14
ELECTRICAL DEMO	ELECTRICAL FIXTURES	11.00 EACH			577.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	881.82	1763.64	8.97
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	881.82 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	842.36	2948.24	5.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	935.95 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	27.00	94.50	.23
EQUIPMENT DEMO	HVAC EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	93.60	327.58	.56
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	935.95 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	3.00	10.50	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	30.00 CUFT			.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	1.27	2.54	.45
LEAD FLASHING DEMO	LEAD FLASHING	900.00 LBS			577.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.00	40.00	.40
LOUVER DEMO	EXT LOUVERS	120.00 SQFT			577.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	291.47	378.91	21.86
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.80 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	560.00	728.00	42.00
CONCRETE SLAB DEMO	SLAB AT GRADE	20.74 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	884.00	1149.20	24.31
MASONRY WALL DEMO	MASONRY WALLS	1326.00 SQFT			577.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	140.00	168.00	.32
INSULATION DEMO	INSULATION (RIGID)	840.00 SQFT			577.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	70.00	140.00	2.52

Source: 16B ELECTRICAL SUBSTATION Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	840.00 SQFT			577.00	

000145

Source: 16C ELECTRICAL PANELS AND TRANSFORMER Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.92	1.83	.15
ELECTRICAL DEMO	2" DIAMETER & LESS	140.00 LNFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.59	1.18	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			579.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	68.00	136.00	3.40
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	68.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	26.38	92.33	.16
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	26.38 CUFT			.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.20	.40	.05
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	90.00 SQFT			579.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	40.00	52.00	3.00
CONCRETE SLAB DEMO	SLAB AT GRADE	1.48 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
WOOD	WOOD	ABOVE GRADE	I	18.15	36.30	.27
MISC. MATERIAL DEMO	WOOD FRAMING	18.15 CUFT			579.00	

Source: 16D MAIN ELECTRICAL SWITCH HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.64	44.17	.65
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.65 TONS			578.00	
DOORS	DOORS	ABOVE GRADE	B	10.50	21.00	.21
EXT DOOR DEMO	EXT DOORS (MAN & OH)	63.00 SQFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.57	3.14	.26
ELECTRICAL DEMO	2" DIAMETER & LESS	240.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.19	22.38	1.22
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	190.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			578.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	432.90	1515.15	2.70
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	481.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	23.40	81.90	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	26.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	48.10	168.35	.30
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	481.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	2.60	9.10	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	26.00 CUFT			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	5.67	7.37	.43
CONCRETE BEAM DEMO	CONCRETE BEAMS	.21 CUYD			578.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	294.30	382.59	22.07
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.90 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	456.30	593.19	34.22
CONCRETE SLAB DEMO	SLAB AT GRADE	16.90 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	752.67	978.47	20.70
MASONRY WALL DEMO	MASONRY WALLS	1129.00 SQFT			578.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	16.41	19.69	.92
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	450.00 SQFT			578.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	

Source: 16E MAIN ELECTRICAL TRANSFORMERS Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	3.53	7.07	.38
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	60.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	9.82	19.63	.82
ELECTRICAL DEMO	OVER 4" DIAMETER	60.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	9834.00	19668.00	220.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	9834.00 CUFT			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	232.20	301.86	17.42
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.60 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	332.10	431.73	24.91
CONCRETE SLAB DEMO	SLAB AT GRADE	12.30 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	

Source: 16F TRAILER SUBSTATION #1 Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.69	44.92	.66
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.17 TONS			578.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	.13 TONS			578.00	
WALL FRAMING	MISC ANGLE FRAMING	.35 TONS			578.00	
DOORS	DOORS	ABOVE GRADE	B	6.67	13.33	.13
EXT DOOR DEMO	EXT DOORS (MAN & OH)	40.00 SQFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.07	.13	.01
ELECTRICAL DEMO	2" DIAMETER & LESS	10.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	4.91	9.82	.41
ELECTRICAL DEMO	OVER 4" DIAMETER	30.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			578.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	50.63	101.26	1.29
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	50.63 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	140.00	450.00	.84
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	140.00 CUFT			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.89	1.78	.22
METAL WALL PANEL DEMO	EXT. METAL PANELS	400.00 SQFT			578.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.17	.33	.04
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	75.00 SQFT			578.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	78.62	102.21	5.90
CONCRETE SLAB DEMO	SLAB AT GRADE	2.91 CUYD			.00	

000149

Source: 16G TRAILER SUBSTATION #2 Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.49	41.51	.61
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.15 TONS			578.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	.12 TONS			578.00	
WALL FRAMING	MISC ANGLE FRAMING	.34 TONS			578.00	
DOORS	DOORS	ABOVE GRADE	B	6.67	13.33	.13
EXT DOOR DEMO	EXT DOORS (MAN & OH)	40.00 SQFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.13	.26	.02
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			578.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	8.18	16.36	.68
ELECTRICAL DEMO	OVER 4" DIAMETER	50.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			578.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	50.63	101.26	1.29
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	50.63 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	140.00	490.00	.84
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	140.00 CUFT			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.80	1.60	.20
METAL WALL PANEL DEMO	EXT. METAL PANELS	360.00 SQFT			578.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.14	.29	.04
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	65.00 SQFT			578.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	78.62	102.21	5.90
CONCRETE SLAB DEMO	SLAB AT GRADE	2.91 CUYD			.00	

Source: 16H 10-PLEX NORTH SUBSTATION Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.12	1.98	.03
MISC. STEEL DEMO	MISC ANGLE FRAMING	.03 TONS			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	840.00	2940.00	5.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	840.00 CUFT			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	217.50	282.75	16.31
CONCRETE SLAB DEMO	SLAB AT GRADE	8.06 CUYD			.00	

000151

Source: 16J 10-PLEX SOUTH SUBSTATION Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.12	1.98	.03
MISC. STEEL DEMO	MISC ANGLE FRAMING	.03 TONS			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	840.00	2940.00	5.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	840.00 CUFT			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	217.50	282.75	16.31
CONCRETE SLAB DEMO	SLAB AT GRADE	8.06 CUYD			.00	

Source: 18A · BDN SURGE LAGOON Component Category: 11

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	5.59	93.38	1.37
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	.35 TONS			585.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	1.02 TONS			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.14	6.28	.53
ELECTRICAL DEMO	2" DIAMETER & LESS	480.00 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	.65	1.31	.05
ELECTRICAL DEMO	OVER 4" DIAMETER	4.00 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	20.00	40.00	.13
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	.75	1.50	.04
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	.75 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	117.98	412.93	.71
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	117.98 CUFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	118.38	236.75	5.23
PIPING DEMO	OVER 4" DIAMETER	282.60 LNFT			585.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	486.00	631.80	36.45
CONCRETE WALL DEMO	CONCRETE WALLS	15.00 CUYD			585.00	
CONCRETE WALL DEMO	CONCRETE WALLS	3.00 CUYD			585.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	12.33	49.32	.03
PIPING DEMO	INSULATION	147.97 SQFT			.00	
FABRIC	BASIN LINERS	BELOW GRADE	I	826.67	1653.33	26.67
GEO TEXTILE LINING DEMO	GEO TEXTILE (FABRIC)	160000.00 SQFT			.00	
POLYETHYLENE LINING DEMO	FABRIC (POLYETHYLENE)	160000.00 SQFT			.00	

000153

Source: 18B GENERAL SUMP Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	64.90	1083.80	15.90
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.40 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.50 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.00 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL	3.00 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			580.00	
MISC. STEEL DEMO	STEEL HANDRAILS	3.00 TONS			580.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	516.30	1032.60	86.77
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	689.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2716.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2129.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5392.73 LNFT			590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	141.82 LNFT			590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2716.36 LNFT			590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	547.27 LNFT			602.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	121.82 LNFT			602.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			602.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	182.73 LNFT			612.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	60.91 LNFT			623.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			623.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	243.64 LNFT			624.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1580.91 LNFT			635.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	121.82 LNFT			635.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	324.55 LNFT			635.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	39.85	79.71	4.33
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	676.56 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	724.00	1448.00	4.53
ELECTRICAL DEMO	ELECTRICAL FIXTURES	18.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	28.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	15.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	85.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	25.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			590.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	ELECTRICAL FIXTURES	32.00	EACH		590.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00	EACH		590.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00	EACH		590.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	15.00	EACH		602.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00	EACH		602.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00	EACH		612.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00	EACH		623.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00	EACH		624.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00	EACH		635.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	24.00	EACH		635.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00	EACH		635.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00	EACH		.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	110.00	220.00	2.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	11.00	EACH		.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	59.28	118.56	6.68
PIPING DEMO	2" DIAMETER & LESS	182.03	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	247.80	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	147.80	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	484.75	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	5.08	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	9.83	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	40.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	543.05	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	262.03	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	96.95	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	37.97	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	58.98	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	23.05	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	4.07	LNFT		580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	406.30	812.60	29.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	277.60	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	716.00	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	419.47	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	280.67	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	78.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	59.87	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	64.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	739.07	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	378.53	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	428.40	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	64.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	198.80	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	52.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	71.87	LNFT		580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	.65	1.31	.07
SUMP LIQUOR DEMO	SL-15-.75"	15.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-15-1"A	10.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	31.42	62.83	1.39
SUMP LIQUOR DEMO	SL-11-6"W	25.00 LNFT			.00	
SUMP LIQUOR DEMO	SL4-E18-17-6"W	50.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	1.94	3.89	.54
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	184.73 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	205.09 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2185.37	2840.98	163.90
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (OCTAGONAL PAD)	2.09 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (OCTAGONAL PAD)	2.76 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	23.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	19.89 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	23.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.07 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.42 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.27 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	H	1932.25	2511.93	144.92
CONCRETE SLAB DEMO	SLAB AT GRADE	66.67 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (ADDITION)	4.90 CUYD			.00	
CONCRETE	ACID BRICK	AT GRADE	F	1901.33	2471.73	133.09
ACID BRICK DEMO	ACID BRICK IN WASTE WATER TREATMENT	5704.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	3.25	12.99	.01
HVAC DEMO	INSULATION	38.98 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	109.44	437.75	.25
PIPING DEMO	INSULATION	1313.25 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	116.85	140.22	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	730.33 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	613.48	736.17	.93
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	730.33 CUFT			.00	

Source: 18C COAL PILE RUNOFF BASIN Component Category: 11

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	653.40	849.42	49.01
CONCRETE FOOTING DEMO	RETAINING WALL FOOTING	24.20 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	317.88	413.24	23.84
CONCRETE SLAB DEMO	SLAB AT GRADE (STATION SLAB)	11.77 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	1854.59	2410.97	139.09
CONCRETE WALL DEMO	RETAINING WALL	26.89 CUYD			.00	
CONCRETE WALL DEMO	RETAINING WALL KEY	3.03 CUYD			.00	
CONCRETE WALL DEMO	STATION WALLS	37.30 CUYD			.00	
CONCRETE WALL DEMO	STATION WALLS (STATION KEY)	1.47 CUYD			.00	

Source: 18D BIODENITRIFICATION TOWERS Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	557.14	9304.22	136.50
COLUMN DEMO	W8 X 24 MEMBERS	4.22 TONS			579.83	
COLUMN DEMO	W8 X 24 MEMBERS	1.80 TONS			579.83	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	15.22 TONS			579.83	
MISC. STEEL DEMO	STEEL HANDRAILS	.36 TONS			579.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	3.01 TONS			579.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	2.88 TONS			579.83	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	.80 TONS			579.83	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.00 TONS			579.83	
ROOF FRAMING DEMO	MISC STEEL	1.50 TONS			579.83	
ROOF FRAMING DEMO	MISC STEEL	1.50 TONS			579.83	
ROOF FRAMING DEMO	MISC. ANGLES	.50 TONS			579.83	
ROOF FRAMING DEMO	MISC. ANGLES	.80 TONS			579.83	
ROOF FRAMING DEMO	W10 X 19 MEMBERS	1.80 TONS			579.83	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	2.16 TONS			579.83	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			579.83	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.24 TONS			590.33	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	2.47 TONS			590.33	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	.52 TONS			590.33	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.20 TONS			590.33	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.47 TONS			590.33	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	6.62 TONS			590.33	
FLOOR PLATING DEMO	STEEL GRATING	2.87 TONS			590.33	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			590.33	
MISC. STEEL DEMO	MISC STEEL	5.00 TONS			590.33	
MISC. STEEL DEMO	MISC. ANGLES	.80 TONS			590.33	
MISC. STEEL DEMO	STEEL HANDRAILS	.80 TONS			590.33	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			590.33	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.78 TONS			602.33	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	1.73 TONS			602.33	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	.52 TONS			602.33	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.30 TONS			602.33	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.47 TONS			602.33	
FLOOR PLATING DEMO	STEEL GRATING	5.32 TONS			602.33	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			602.33	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			602.33	
MISC. STEEL DEMO	MISC STEEL	3.00 TONS			602.33	
MISC. STEEL DEMO	MISC. ANGLES	.80 TONS			602.33	
MISC. STEEL DEMO	STEEL HANDRAILS	.80 TONS			602.33	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			602.33	
COLUMN DEMO	W8 X 24 MEMBERS	2.38 TONS			612.33	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.78 TONS			612.33	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	.71 TONS			612.33	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	.34 TONS			612.33	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.23 TONS			612.33	
FLOOR PLATING DEMO	STEEL GRATING	5.32 TONS			612.33	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			612.33	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.70 TONS			612.33	
MISC. STEEL DEMO	MISC STEEL	2.00 TONS			612.33	
MISC. STEEL DEMO	MISC. ANGLES	.60 TONS			612.33	
MISC. STEEL DEMO	STEEL HANDRAILS	.80 TONS			612.33	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			612.33	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
COLUMN DEMO	W8 X 24 MEMBERS	2.38 TONS			623.83	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	1.09 TONS			623.83	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	.25 TONS			623.83	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.55 TONS			623.83	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	1.50 TONS			623.83	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.93 TONS			623.83	
FLOOR PLATING DEMO	STEEL GRATING	3.12 TONS			623.83	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			623.83	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.70 TONS			623.83	
MISC. STEEL DEMO	MISC. ANGLES	.60 TONS			623.83	
MISC. STEEL DEMO	STEEL HANDRAILS	.72 TONS			623.83	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			623.83	
COLUMN DEMO	W8 X 24 MEMBERS	2.38 TONS			635.33	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	1.09 TONS			635.33	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.00 TONS			635.33	
FLOOR PLATING DEMO	STEEL GRATING	3.12 TONS			635.33	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			635.33	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.70 TONS			635.33	
MISC. STEEL DEMO	MISC. ANGLES	.60 TONS			635.33	
MISC. STEEL DEMO	STEEL HANDRAILS	.72 TONS			635.33	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			635.33	
COLUMN DEMO	W8 X 24 MEMBERS	2.38 TONS			654.83	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.42 TONS			654.83	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	1.22 TONS			654.83	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.47 TONS			654.83	
MISC. STEEL DEMO	MISC. ANGLES	.60 TONS			654.83	
MISC. STEEL DEMO	STEEL HANDRAILS	.72 TONS			654.83	
MISC. STEEL DEMO	STEEL HANDRAILS	.72 TONS			654.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.79 TONS			654.83	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.16 TONS			654.83	
ROOF FRAMING DEMO	MISC. ANGLES	.50 TONS			654.83	
ROOF FRAMING DEMO	THREADED RODS	.30 TONS			654.83	
ROOF FRAMING DEMO	W8 X 15 MEMBERS	1.80 TONS			654.83	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	1.42 TONS			654.83	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.62 TONS			654.83	
DOORS	DOORS	ABOVE GRADE	B	99.17	198.33	1.98
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			579.83	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	147.00 SQFT			579.83	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	263.00 SQFT			590.33	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	164.00 SQFT			602.33	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	60.56	121.13	10.18
ELECTRICAL DEMO	2" DIAMETER & LESS	425.45 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	222.73 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	770.00 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	689.09 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	435.45 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	222.73 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	466.36 LNFT			579.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	669.09 LNFT			579.83	

Source: 18D BIODENITRIFICATION TOWERS Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	212.73 LNFT			590.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	243.64 LNFT			602.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			635.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	324.55 LNFT			635.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	567.27 LNFT			635.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	649.09 LNFT			635.33	
ELECTRICAL DEMO	2" DIAMETER & LESS	871.82 LNFT			635.33	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	145.95	291.89	15.86
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	995.00 LNFT			579.83	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	288.59 LNFT			579.83	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1194.06 LNFT			579.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	296.00	592.00	1.85
ELECTRICAL DEMO	ELECTRICAL FIXTURES	23.00 EACH			579.83	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	73.00 EACH			579.83	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			579.83	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			579.83	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH			579.83	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	120.00	240.00	3.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	12.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5020.20	17570.70	32.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	5578.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	52.77	105.54	5.95
PIPING DEMO	2" DIAMETER & LESS	396.61 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	277.29 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	101.02 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	220.00 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	357.97 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	272.88 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	458.98 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	21.02 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			579.83	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	188.82	377.64	13.52
PIPING DEMO	2-1/2" TO 4" DIAMETER	198.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	143.87 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	153.73 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	80.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	154.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	130.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	441.47 LNFT			579.83	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	97.87 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	327.60 LNFT			579.83	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	557.80	1952.30	3.56
EQUIPMENT DEMO	PROCESS EQUIPMENT	5578.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	5.86	11.73	.66
PIPING DEMO	2" DIAMETER & LESS	396.61 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	277.29 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	101.02 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	220.00 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	357.97 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	272.88 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	458.98 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	21.02 LNFT			579.83	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			579.83	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	20.98	41.96	1.50
PIPING DEMO	2-1/2" TO 4" DIAMETER	198.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	143.87 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	153.73 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	80.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	154.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	130.80 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.93 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	441.47 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	97.87 LNFT			579.83	
PIPING DEMO	2-1/2" TO 4" DIAMETER	327.60 LNFT			579.83	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	4.82	9.63	1.33
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	712.72 SQFT			579.83	
HVAC DEMO	DUCTWORK DEMO (ROUND)	253.82 SQFT			579.83	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.67	41.33	.41
LOUVER DEMO	EXT LOUVERS	4.00 SQFT			579.83	
LOUVER DEMO	EXT LOUVERS	80.00 SQFT			590.33	
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			602.33	
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			612.33	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	34.42	68.83	8.50
METAL WALL PANEL DEMO	EXT. METAL PANELS	15451.00 SQFT			579.83	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	9.80	19.59	2.42
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1713.00 SQFT			579.83	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1470.00 SQFT			579.83	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	174.93 SQFT			623.83	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1040.00 SQFT			654.83	
CONCRETE	CONCRETE	BELOW GRADE	E	177.82	231.17	13.34

Source: 18D BIODENITRIFICATION TOWERS Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE CURBING DEMO	WALL (CURBING)	2.22 CUYD			.00	
CONCRETE CURBING DEMO	WALL (CURBING)	4.36 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	662.02	860.62	49.65
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PAD)	.25 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PAD)	.45 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PAD)	2.01 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PAD)	1.59 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (SADDLES)	4.77 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STAIR SUPPORT)	1.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (BIOREACTOR N. SECTION)	7.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (BIOREACTOR S. SECTION)	5.07 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.82 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	3695.53	4804.18	277.16
CONCRETE SLAB DEMO	SLAB AT GRADE (BDN TOWER)	20.74 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (N. SECTION)	29.58 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (S. SECTION)	86.56 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	243.34	316.34	18.25
CONCRETE SLAB DEMO	SLAB BELOW GRADE (BENEATH COL. C)	4.50 CUYD			.00	
CONCRETE SLAB DEMO	SLAB BELOW GRADE (BENEATH TRENCH)	2.53 CUYD			.00	
CONCRETE SLAB DEMO	SLAB BELOW GRADE (BENEATH TRENCH)	1.98 CUYD			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	107.10	214.20	1.29
CEILING DEMO	CEILING DEMO	1713.60 SQFT			579.83	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	8.05	32.22	.02
HVAC DEMO	INSULATION	96.65 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	68.27	273.09	.15
PIPING DEMO	INSULATION	819.28 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	115.34	138.40	.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	720.84 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	225.81	451.63	5.96
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	3613.00 SQFT			579.83	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	2670.17	3204.20	6.01
INSULATION DEMO	INSULATION (BAT)	3613.00 SQFT			579.83	
INSULATION DEMO	INSULATION (BAT)	1650.00 SQFT			579.83	
INSULATION DEMO	INSULATION (BAT)	1870.00 SQFT			590.33	
INSULATION DEMO	INSULATION (BAT)	2040.00 SQFT			602.33	
INSULATION DEMO	INSULATION (BAT)	1700.00 SQFT			612.33	
INSULATION DEMO	INSULATION (BAT)	1452.00 SQFT			623.83	
INSULATION DEMO	INSULATION (BAT)	1452.00 SQFT			635.33	
INSULATION DEMO	INSULATION (BAT)	2244.00 SQFT			654.83	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	500.00	1000.00	7.50
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			579.83	
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			579.83	
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			590.33	

Source: 18D BIODENITRIFICATION TOWERS Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			602.33	
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			654.83	
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			654.83	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	605.51	726.61	.92
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	720.84 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	30.17	60.33	.60
WINDOW DEMO	WINDOWS	21.00 SQFT			579.83	
WINDOW DEMO	WINDOWS	80.00 SQFT			590.33	
WINDOW DEMO	WINDOWS	40.00 SQFT			602.33	
WINDOW DEMO	WINDOWS	40.00 SQFT			612.33	

Source: 18E STORM WATER RETENTION BASIN Component Category: 11

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	3.49	58.28	.86
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	.38 TONS			573.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	.48 TONS			573.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.17	10.34	.87
ELECTRICAL DEMO	2" DIAMETER & LESS	790.00 LNFT			573.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.88	1.77	.10
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	15.00 LNFT			573.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	32.00	64.00	.20
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00 EACH			573.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	7.75	15.50	.48
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	7.75 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	164.29	575.02	.99
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	164.29 CUFT			.00	
FABRIC	BASIN LINERS	BELOW GRADE	I	981.67	1963.33	31.67
GEO TEXTILE LINING DEMO	GEO TEXTILE (FABRIC)	100000.00 SQFT			.00	
GEO TEXTILE LINING DEMO	GEO TEXTILE (FABRIC)	90000.00 SQFT			.00	
POLYETHYLENE LINING DEMO	FABRIC (POLYETHYLENE)	100000.00 SQFT			.00	
POLYETHYLENE LINING DEMO	FABRIC (POLYETHYLENE)	90000.00 SQFT			.00	

Source: 18G CLEARWELL PUMP HOUSE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.49	41.58	.61
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.61 TONS			577.00	
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.31	2.62	.22
ELECTRICAL DEMO	2" DIAMETER & LESS	200.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	5.89	11.78	.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	100.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	9.82	19.63	.82
ELECTRICAL DEMO	OVER 4" DIAMETER	60.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			577.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	12.00	24.00	.60
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	12.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	52.94	185.28	1.20
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	58.82 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	.90	3.15	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	11.70	40.95	.23
EQUIPMENT DEMO	PROCESS EQUIPMENT	13.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.82	1.65	.09
PIPING DEMO	2" DIAMETER & LESS	35.00 LNFT			577.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	3.30	6.60	.24
PIPING DEMO	2-1/2" TO 4" DIAMETER	35.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	1.13	2.26	.05
PIPING DEMO	OVER 4" DIAMETER	3.00 LNFT			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	5.88	20.59	.13
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	58.82 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.30	4.55	.03
EQUIPMENT DEMO	PROCESS EQUIPMENT	13.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.09	.18	.01
PIPING DEMO	2" DIAMETER & LESS	35.00 LNFT			577.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.37	.73	.03

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Source: 18G CLEARWELL PUMP HOUSE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	35.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	.13	.25	.01
PIPING DEMO	OVER 4" DIAMETER	3.00 LNFT			577.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	47.33	61.53	3.55
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.75 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	161.26	209.64	12.09
CONCRETE SLAB DEMO	SLAB AT GRADE	5.97 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	14.15	16.97	.80
EXT TRANSITE DEMO	EXT TRANSITE PANELS	388.00 SQFT			577.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	8.82	10.59	.50
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	242.00 SQFT			577.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.28	5.11	.00
PIPING DEMO	INSULATION	15.32 SQFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.67	21.33	.21
WINDOW DEMO	WINDOWS	64.00 SQFT			577.00	
WOOD	WOOD	ABOVE GRADE	I	184.05	368.10	2.76
ELECTRICAL DEMO	UTILITY POLES	184.05 CUFT			577.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	8.90	148.60	2.18
COLUMN DEMO	W8 X 24 MEMBERS	1.08 TONS			580.00	
FLOOR FRAMING DEMO	MISC STEEL	.50 TONS			580.00	
FLOOR FRAMING DEMO	MISC. ANGLES	.20 TONS			580.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.40 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	23.33	46.67	.47
EXT DOOR DEMO	EXT DOORS (MAN & OH)	140.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	29.31	58.63	3.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	497.66 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	36.00	72.00	.23
ELECTRICAL DEMO	ELECTRICAL FIXTURES	18.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	34074.00	119259.00	102.26
EQUIPMENT DEMO	PROCESS EQUIPMENT	37860.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	2.43	4.86	.27
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	34.92 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	31.63	63.26	2.27
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	186.80 LNFT			580.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	3786.00	13251.00	11.36
EQUIPMENT DEMO	PROCESS EQUIPMENT	37860.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.27	.54	.03
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	34.92 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	3.51	7.03	.25
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	186.80 LNFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.25	10.50	1.30
METAL WALL PANEL DEMO	EXT. METAL PANELS	2358.00 SQFT			580.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.25	10.50	1.30
METAL WALL PANEL DEMO	INT. METAL PANELS	2358.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	3.34	6.68	.83
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1500.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	80.00	104.00	6.00
CONCRETE SUMP DEMO	SUMP WALLS	2.96 CUYD			.00	

Source: 18H BDN EFFLUENT TREATMENT FACILITY Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	189.00	245.70	14.18
CONCRETE FOOTING DEMO	FOOTINGS	7.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1082.92	1407.79	81.22
CONCRETE SLAB DEMO	SLAB AT GRADE	37.22 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (ENTRY RAMP)	.58 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (ENTRY SERV. DOOR SLAB)	1.12 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (ENTRY SLAB)	1.19 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	8.03	32.13	.02
PIPING DEMO	INSULATION	96.39 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	59.94	71.93	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	374.65 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	393.00	471.60	.88
INSULATION DEMO	INSULATION (BAT)	2358.00 SQFT			580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	314.71	377.65	.48
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	374.65 CUFT			.00	

Source: 18J METHANOL TANK Component Category: 5

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	18.37	306.73	4.50
FLOOR PLATING DEMO	HEAVY FLOOR PLATE	1.00 TONS			575.83	
MISC. STEEL DEMO	MISC. ANGLES	3.50 TONS			575.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.73	1.45	.12
ELECTRICAL DEMO	2" DIAMETER & LESS	110.91 LNFT			575.83	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.17	.35	.02
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	2.97 LNFT			575.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			575.83	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	6.81	13.61	.77
PIPING DEMO	2" DIAMETER & LESS	260.00 LNFT			575.83	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.19	8.38	.30
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			575.83	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	8.38	16.76	.37
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			575.83	
CONCRETE	CONCRETE	BELOW GRADE	E	61.50	79.95	4.61
CONCRETE TRENCH DEMO	TRENCH	2.28 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	445.08	578.60	33.38
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	5.82 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	847.33	1101.53	63.55
CONCRETE SLAB DEMO	SLAB AT GRADE	31.38 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	324.00	421.20	24.30
CONCRETE WALL DEMO	CONCRETE WALLS	12.00 CUYD			575.83	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	5.02	20.08	.01
PIPING DEMO	INSULATION	60.24 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	3.79	4.55	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	19.92	23.90	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	

000169

Material / Work Type	Material Description / Item	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	8.16	136.33	2.00
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS			575.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.67	1.33	.11
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			575.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			575.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			575.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	380.00	760.00	9.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	38.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1.18	2.36	.13
PIPING DEMO	2" DIAMETER & LESS	45.08 LNFT			575.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	5.86	11.73	.26
PIPING DEMO	OVER 4" DIAMETER	14.00 LNFT			575.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.00	4.02	.00
PIPING DEMO	INSULATION	12.05 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	3.79	4.55	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	
FABRIC	BASIN LINERS	BELOW GRADE	I	167.40	334.80	5.40
GEO TEXTILE LINING DEMO	GEO TEXTILE (FABRIC)	32400.00 SQFT			.00	
POLYETHYLENE LINING DEMO	FABRIC (POLYETHYLENE)	32400.00 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	19.92	23.90	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	

Source: 18L HIGH NITRATE TANK Component Category: 11

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE		A	8.16	136.33	2.00
MISC. STEEL DEMO	MISC. ANGLES		2.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE		B	.67	1.33	.11
ELECTRICAL DEMO	2" DIAMETER & LESS		101.82 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE		B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER		30.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE		B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES		3.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE		B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS		3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE		B	380.00	760.00	9.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS		38.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE		B	4.00	14.00	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT		4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE		B	1.18	2.36	.13
PIPING DEMO	2" DIAMETER & LESS		45.08 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE		B	5.86	11.73	.25
PIPING DEMO	OVER 4" DIAMETER		14.00 LNFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	1.00	4.02	.00
PIPING DEMO	INSULATION		12.05 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	4.55	5.46	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		28.45 CUFT			.00	
FABRIC	BASIN LINERS	BELOW GRADE		I	167.40	334.80	5.40
GEO TEXTILE LINING DEMO	GEO TEXTILE (FABRIC)		32400.00 SQFT			.00	
POLYETHYLENE LINING DEMO	FABRIC (POLYETHYLENE)		32400.00 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	23.90	28.68	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		28.45 CUFT			.00	

000171

Source: 18M HIGH NITRATE STORAGE TANK Component Category: 5

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.40	.80	.07
ELECTRICAL DEMO	2" DIAMETER & LESS	60.91 LNFT			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	110.00	220.00	2.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	11.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	3.92	7.85	.44
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	12.57	25.13	.55
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1120.00	1456.00	84.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM	41.48 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	8362.67	10871.47	627.20
CONCRETE SLAB DEMO	SLAB AT GRADE	309.73 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	2160.00	2808.00	162.00
CONCRETE WALL DEMO	CONCRETE WALLS	80.00 CUYD			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.01	12.05	.01
PIPING DEMO	INSULATION	36.14 SQFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	9.18	153.37	2.25
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.35 TONS			588.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.90 TONS			588.00	
DOORS	DOORS	ABOVE GRADE	B	20.33	40.67	.41
EXT DOOR DEMO	EXT DOORS (MAN & OH)	122.00 SQFT			588.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.47	6.94	.58
ELECTRICAL DEMO	2" DIAMETER & LESS	70.00 LNFT			588.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	460.00 LNFT			588.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	30.00	60.00	.19
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			588.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH			588.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	484.54	969.08	3.89
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	484.54 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	465.90	1630.66	2.80
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	517.67 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14220.90	49773.15	11.21
EQUIPMENT DEMO	PROCESS EQUIPMENT	15801.00 CUFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	39.58	79.17	1.75
PIPING DEMO	OVER 4" DIAMETER	105.00 LNFT			588.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	51.77	181.18	.31
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	517.67 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1580.10	5530.35	1.25
EQUIPMENT DEMO	PROCESS EQUIPMENT	15801.00 CUFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	4.40	8.80	.19
PIPING DEMO	OVER 4" DIAMETER	105.00 LNFT			588.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.67	5.33	.05
LOUVER DEMO	EXT LOUVERS	16.00 SQFT			588.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	4.15	8.30	1.02
METAL WALL PANEL DEMO	EXT. METAL PANELS	1862.00 SQFT			588.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	2.00	4.01	.50
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	900.00 SQFT			588.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	209.44	272.27	15.71
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	7.76 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	450.00	585.00	33.75
CONCRETE SLAB DEMO	SLAB AT GRADE	16.67 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.58	18.33	.01

Source: 18P DISSOLVED OXYGEN BUILDING Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	INSULATION	54.98 SQFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	460.33	552.40	1.04
INSULATION DEMO	INSULATION (BAT)	2762.00 SQFT			588.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	19.59	327.18	4.80
ROOF FRAMING DEMO	W8 X 24 MEMBERS	2.88 TONS			577.00	
WALL FRAMING	C-CHANNEL GIRTS	1.92 TONS			577.00	
DOORS	DOORS	ABOVE GRADE	B	44.17	88.33	.88
EXT DOOR DEMO	EXT DOORS (MAN & OH)	265.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	18.49	36.98	3.11
ELECTRICAL DEMO	2" DIAMETER & LESS	1740.00 LNFT			577.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1085.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.42	6.81	.37
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	15.00 LNFT			577.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	43.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	1.80	3.60	.15
ELECTRICAL DEMO	OVER 4" DIAMETER	11.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	100.00	200.00	.63
ELECTRICAL DEMO	ELECTRICAL FIXTURES	36.00 EACH			577.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			577.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	407.44	814.88	3.87
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	407.44 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	698.87	2446.04	4.23
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	776.52 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	3564.90	12477.15	19.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	3961.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	25.97	51.93	2.93
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	254.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	500.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	7.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	254.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	7.00 LNFT			577.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	109.97	219.94	7.88
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	147.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	600.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.80 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	147.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	108.80	217.60	4.81
PIPING DEMO	OVER 4" DIAMETER	128.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			577.00	

Source: 18Q IAWWT VALVE HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	41.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	99.60 LNFT			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	77.65	271.78	.47
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	776.52 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	396.10	1386.35	2.11
EQUIPMENT DEMO	PROCESS EQUIPMENT	3961.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	2.89	5.77	.33
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	254.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	500.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	7.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	254.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	7.00 LNFT			577.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	12.22	24.44	.88
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	147.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	600.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.80 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	147.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	12.09	24.18	.53
PIPING DEMO	OVER 4" DIAMETER	128.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	41.00 LNFT			577.00	
PIPING DEMO	OVER 4" DIAMETER	99.60 LNFT			577.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.67	5.33	.05
LOUVER DEMO	EXT LOUVERS	16.00 SQFT			577.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	6.11	12.22	1.51
METAL WALL PANEL DEMO	EXT. METAL PANELS	2743.00 SQFT			577.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	4.28	8.55	1.06
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1920.00 SQFT			577.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	69.75	90.68	5.23
CONCRETE EQUIPMENT FNDN DEMO	PUMP FOUNDATIONS	.92 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	987.50	1283.75	74.06
CONCRETE SLAB DEMO	SLAB AT GRADE	4.17 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	32.41 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	274.50	356.85	20.59
CONCRETE SLAB DEMO	BOTTOM SLAB BELOW GRADE VALVE PIT	7.50 CUYD			.00	
CONCRETE SLAB DEMO	BOTTOM SLAB BELOW GRADE VALVE PIT	2.67 CUYD			.00	

Source: 18Q IAWWT VALVE HOUSE Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE WALLS	BELOW GRADE	B	560.00	728.00	42.00
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	2.67 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	5.33 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	6.67 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	1.33 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	4.74 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	50.07	200.28	.11
PIPING DEMO	INSULATION	600.83 SQFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	777.17	932.60	1.75
INSULATION DEMO	INSULATION (BAT)	1920.00 SQFT			577.00	
INSULATION DEMO	INSULATION (BAT)	2743.00 SQFT			577.00	

Source: 19A MAIN TANK FARM Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	221.20	3693.97	54.19
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.70 TONS			582.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.72 TONS			582.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.12 TONS			582.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.24 TONS			582.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.23 TONS			582.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.18 TONS			582.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.30 TONS			582.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.22 TONS			582.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.30 TONS			582.00	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	1.87 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.98 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.30 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.83 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.68 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.47 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.76 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	2.27 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 20 MEMBERS	2.38 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 20 MEMBERS	3.05 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.77 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.56 TONS			582.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	.09 TONS			582.00	
FLOOR PLATING DEMO	STEEL GRATING	1.94 TONS			582.00	
FLOOR PLATING DEMO	STEEL GRATING	.69 TONS			582.00	
FLOOR PLATING DEMO	STEEL GRATING	3.24 TONS			582.00	
FLOOR PLATING DEMO	STEEL GRATING	2.76 TONS			582.00	
FLOOR PLATING DEMO	STEEL GRATING	1.36 TONS			582.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.74 TONS			582.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	2.01 TONS			582.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.33 TONS			582.00	
MISC. STEEL DEMO	W10 X 25 MEMBERS	3.11 TONS			582.00	
MISC. STEEL DEMO	W10 X 25 MEMBERS	1.86 TONS			582.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.25 TONS			582.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.25 TONS			582.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.50 TONS			582.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.25 TONS			582.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.88 TONS			582.00	
STAIR FRAMING DEMO	STEEL HANDRAILS	2.42 TONS			582.00	
STAIR FRAMING DEMO	STEEL HANDRAILS	1.17 TONS			582.00	
STAIR FRAMING DEMO	STEEL HANDRAILS	1.02 TONS			582.00	
STAIR FRAMING DEMO	STEEL HANDRAILS	2.42 TONS			582.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	439.59	879.17	47.76
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	7462.66 LNFT			582.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			582.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	

Source: 19A MAIN TANK FARM Component Category: 5

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE			B	310.00	620.00	7.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS		31.00	EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE			B	20180.00	70630.00	52.50
EQUIPMENT DEMO	PROCESS EQUIPMENT		20180.00	CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE			B	107.41	214.82	12.10
PIPING DEMO	2" DIAMETER & LESS		4102.71	LNFT			582.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE			B	157.78	315.56	11.30
PIPING DEMO	2-1/2" TO 4" DIAMETER		1506.67	LNFT			582.00	
CONCRETE	CONCRETE	BELOW GRADE			B	7650.50	9945.65	573.79
CONCRETE SUMP DEMO	PIT RAIN RUN-OFF SLAB		207.41	CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS		13.04	CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS		60.44	CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR		.65	CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS		1.56	CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS		.26	CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE			B	24391.38	31708.79	1629.15
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (2 OCTAGON TANKS)		103.70	CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (3 EQUIP PADS)		1.33	CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PADS)		5.33	CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP.)		18.89	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)		5.56	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)		27.78	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)		14.00	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (MAIN FNDN.)		237.92	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STAIR SUPPORT)		4.44	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)		26.67	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)		18.67	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)		88.89	CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)		80.89	CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM		30.99	CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM		19.92	CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL WALL PIER		5.93	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS		5.93	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS		20.00	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS		.67	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS		122.78	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (DET 4)		2.67	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (MAIN FNDN.)		58.67	CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWAYS		1.78	CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE			B	4200.00	5460.00	315.00
CONCRETE SLAB DEMO	SLAB AT GRADE		123.15	CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE		32.41	CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE			B	5899.50	7669.35	442.46
CONCRETE SLAB DEMO	CONCRETE SLAB (PIT FOUNDATION)		218.50	CUYD			.00	

Source: 19A MAIN TANK FARM Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	2430.00	3159.00	182.25
MISC CONCRETE DEMO	CONCRETE WALLS	90.00 CUYD			582.00	
TILE	FLOOR TILE	AT GRADE	G	11.46	13.75	.55
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	550.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	77.31	309.24	.17
PIPING DEMO	INSULATION	927.71 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	62.22	74.66	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	388.88 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	326.66	391.99	.49
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	388.88 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	31.04	518.45	7.61
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.80 TONS			573.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.25 TONS			573.00	
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	.34 TONS			573.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.54 TONS			573.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.08 TONS			573.00	
FLOOR PLATING DEMO	STEEL GRATING	.73 TONS			573.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.88 TONS			573.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.65	9.29	.78
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			573.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	20.00	40.00	.13
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			573.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	6080.00	21280.00	36.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	6080.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	33.37	66.74	3.76
PIPING DEMO	2" DIAMETER & LESS	1274.58 LNFT			573.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	153.39	199.40	11.50
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	5.68 CUYD			573.00	
CONCRETE	CONCRETE	BELOW GRADE	E	160.28	208.36	12.02
CONCRETE CURBING DEMO	CURBING	1.52 CUYD			.00	
CONCRETE SUMP DEMO	CONTAIN SUMP WALLS	2.49 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	.49 CUYD			.00	
CONCRETE SUMP DEMO	SUMP FLOOR	1.19 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.25 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2148.45	2792.98	161.13
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP. PADS)	.44 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (PUMP PAD)	1.94 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING (11 PIPE SUPPORT)	9.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (4 VESSEL FNDN.)	29.87 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (5 EQUIP. PADS)	6.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (PUMP PAD)	1.94 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STAIR BASE)	.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL (PUMP PAD)	2.13 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL 1	18.82 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL 2	1.36 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.83 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.67 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWAYS	2.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1736.00	2256.80	130.20
CONCRETE SLAB DEMO	SLAB AT GRADE	37.04 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (COL B3)	2.37 CUYD			.00	

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Source: 19B PILOT PLANT AMMONIA TANK FARM Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	SLAB AT GRADE (UNLOADING DOCK)	24.89 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	1114.16	1448.40	83.56
CONCRETE WALL DEMO	CONCRETE WALLS	41.27 CUYD			573.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	2265.40	2945.02	169.90
CONCRETE WALL DEMO	CONTAIN WALL FOOTING	28.89 CUYD			.00	
CONCRETE WALL DEMO	CONTAIN WALL FOOTING	23.33 CUYD			.00	
CONCRETE WALL DEMO	WALLS	17.53 CUYD			.00	
CONCRETE WALL DEMO	WALLS	14.16 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	14.06	56.22	.03
PIPING DEMO	INSULATION	168.67 SQFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.22	204.01	2.99
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.39 TONS			581.67	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.89 TONS			581.67	
ROOF FRAMING DEMO	WT4 X 10 MEMBERS	.80 TONS			581.67	
ROOF FRAMING DEMO	METAL DECKING	.92 TONS			581.67	
DOORS	DOORS	ABOVE GRADE	B	21.00	42.00	.42
EXT DOOR DEMO	EXT DOORS (MAN & OH)	126.00 SQFT			581.67	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.32	4.64	.39
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT			581.67	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.18	2.36	.13
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			581.67	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	26.00	52.00	.16
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH			581.67	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	262.80	919.80	2.22
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	292.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	29.20	102.20	.25
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	292.00 CUFT			.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	2.41	4.81	.59
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1080.00 SQFT			581.67	
CONCRETE	CONCRETE	BELOW GRADE	E	54.00	70.20	4.05
CONCRETE CURBING DEMO	INTEGRAL CURB (DOOR STOOP/PAD)	2.00 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3529.60	4588.48	264.72
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (DOOR STOOP/PAD)	1.04 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (ISOLATED)	.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	26.29 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	33.37 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	9.10 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (STRIP)	44.49 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.50 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.13 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.25 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.13 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWAYS	1.78 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	633.50	823.55	47.51
CONCRETE SLAB DEMO	SLAB AT GRADE	21.39 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	2.07 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1300.00	1690.00	35.75
MASONRY WALL DEMO	MASONRY WALLS	1950.00 SQFT			581.67	

Source: 19C TANK FARM CONTROL HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	28.44	56.88	.34
CEILING DEMO	CEILING DEMO	455.00 SQFT			581.67	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	13.66	16.39	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	85.36 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	80.67	161.33	2.13
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	1290.64 SQFT			581.67	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	383.33	460.00	.86
INSULATION DEMO	INSULATION (BAT)	2300.00 SQFT			581.67	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	71.71	86.05	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	85.36 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	9.33	18.67	.19
WINDOW DEMO	WINDOWS	56.00 SQFT			581.67	

Source: 19D OLD NORTH TANK FARM Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	12000.00	42000.00	27.50
EQUIPMENT DEMO	PROCESS EQUIPMENT	12000.00 CUFT			.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	486.00	631.80	36.45
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	18.00 CUYD			582.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1538.50	2000.05	115.39
CONCRETE FOOTING DEMO	FOOTINGS (STAIR SUPPORT)	.59 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS I	4.50 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS II, III	15.89 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS IV	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS V	1.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL I	6.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL II, III	16.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	6.52 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.48 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS IV	1.48 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	59.19	71.02	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	369.91 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	310.72	372.87	.47
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	369.91 CUFT			.00	

000185

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	27.63	461.47	6.77
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.47 TONS			583.67	
EXT WALL FRMNG DEMO	MISC. ANGLES	.20 TONS			583.67	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	3.07 TONS			583.67	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	.81 TONS			583.67	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	1.35 TONS			583.67	
MISC. STEEL DEMO	STEEL HANDRAILS	.24 TONS			583.67	
STAIR FRAMING DEMO	STAIR FRAMING	.63 TONS			583.67	
DOORS	DOORS	ABOVE GRADE	B	27.17	54.33	.54
EXT DOOR DEMO	EXT DOORS (MAN & OH)	163.00 SQFT			583.67	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.66	3.32	.28
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			583.67	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			583.67	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	472.50	1653.75	2.08
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	525.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	63.00	220.50	1.07
EQUIPMENT DEMO	PROCESS EQUIPMENT	70.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.94	9.89	.56
PIPING DEMO	2" DIAMETER & LESS	209.83 LNFT			583.67	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	52.50	183.75	.23
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	525.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	7.00	24.50	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	70.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.55	1.10	.06
PIPING DEMO	2" DIAMETER & LESS	209.83 LNFT			583.67	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.67	5.33	.05
LOUVER DEMO	EXT LOUVERS	16.00 SQFT			583.67	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.23	6.47	.80
METAL WALL PANEL DEMO	EXT. METAL PANELS	1452.00 SQFT			583.67	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.58	1.16	.14
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	260.00 SQFT			583.67	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	135.00	175.50	10.13
CONCRETE FOOTING DEMO	FOOTINGS (INTEGRAL TURNDOWN)	5.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	110.00	143.00	8.25

Source: 19E TANK FARM LIME SLITTER BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	SLAB AT GRADE	4.07 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	19.73	23.67	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	123.30 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	103.57	124.29	.16
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	123.30 CUFT			.00	

000187

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1646.53	27497.06	403.40
COLUMN DEMO	W10 X 33 MEMBERS	16.99 TONS			585.50	
COLUMN DEMO	W12 X 40 MEMBERS	23.56 TONS			585.50	
COLUMN DEMO	W12 X 45 MEMBERS	1.15 TONS			585.50	
COLUMN DEMO	W12 X 53 MEMBERS	1.35 TONS			585.50	
COLUMN DEMO	W12 X 65 MEMBERS	.83 TONS			585.50	
COLUMN DEMO	W8 X 28 MEMBERS	1.84 TONS			585.50	
COLUMN DEMO	W8 X 31 MEMBERS	.68 TONS			585.50	
FLOOR FRAMING	C-CHANNEL FRAMING	1.94 TONS			585.50	
FLOOR FRAMING	MISC FLOOR PLATE	1.41 TONS			585.50	
STEEL PLATES	MISC STEEL	11.00 TONS			585.50	
STEEL TUBE	TUBE STEEL FRAMING	.66 TONS			585.50	
STEEL TUBE	TUBE STEEL FRAMING	.15 TONS			585.50	
WALL FRAMING	C-CHANNEL FRAMING	.97 TONS			585.50	
WALL FRAMING	C-CHANNEL FRAMING	7.00 TONS			585.50	
WALL FRAMING	C-CHANNEL FRAMING	39.70 TONS			585.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.46 TONS			598.00	
FLOOR FRAMING	C-CHANNEL FRAMING	4.79 TONS			598.00	
FLOOR FRAMING	W12 X 27 MEMBERS	5.21 TONS			598.00	
FLOOR FRAMING	W12 X 31 MEMBERS	.31 TONS			598.00	
FLOOR FRAMING	W14 X 30 MEMBERS	3.00 TONS			598.00	
FLOOR FRAMING	W16 X 36 MEMBERS	8.28 TONS			598.00	
FLOOR FRAMING	W18 X 50 MEMBERS	5.00 TONS			598.00	
FLOOR FRAMING	W21 X 62 MEMBERS	9.30 TONS			598.00	
FLOOR FRAMING	W24 X 76 MEMBERS	.76 TONS			598.00	
FLOOR FRAMING	W8 X 10 MEMBERS	.18 TONS			598.00	
FLOOR FRAMING	W8 X 17 MEMBERS	1.96 TONS			598.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	5.60 TONS			598.00	
MISC STEEL	MEDIUM FLOOR PLATE	13.05 TONS			598.00	
MISC STEEL	MEDIUM FLOOR PLATE	3.63 TONS			598.00	
MISC STEEL	STEEL HANDRAILS	7.10 TONS			598.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.55 TONS			610.50	
FLOOR FRAMING	C-CHANNEL FRAMING	1.44 TONS			610.50	
FLOOR FRAMING	W10 X 21 MEMBERS	9.36 TONS			610.50	
FLOOR FRAMING	W12 X 22 MEMBERS	.63 TONS			610.50	
FLOOR FRAMING	W12 X 22 MEMBERS	.83 TONS			610.50	
FLOOR FRAMING	W12 X 27 MEMBERS	10.21 TONS			610.50	
FLOOR FRAMING	W14 X 30 MEMBERS	3.00 TONS			610.50	
FLOOR FRAMING	W16 X 36 MEMBERS	2.88 TONS			610.50	
FLOOR FRAMING	W16 X 40 MEMBERS	.40 TONS			610.50	
FLOOR FRAMING	W16 X 50 MEMBERS	.50 TONS			610.50	
FLOOR FRAMING	W18 X 50 MEMBERS	3.00 TONS			610.50	
FLOOR FRAMING	W21 X 62 MEMBERS	1.24 TONS			610.50	
FLOOR FRAMING	W24 X 76 MEMBERS	.76 TONS			610.50	
MISC STEEL	MEDIUM FLOOR PLATE	19.34 TONS			610.50	
MISC STEEL	MEDIUM FLOOR PLATE	2.80 TONS			610.50	
MISC STEEL	STEEL HANDRAILS	5.44 TONS			610.50	
FLOOR FRAMING	C-CHANNEL FRAMING	1.32 TONS			624.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.17 TONS			624.50	
FLOOR FRAMING	W10 X 15 MEMBERS	.69 TONS			624.50	
FLOOR FRAMING	W10 X 21 MEMBERS	.21 TONS			624.50	
FLOOR FRAMING	W10 X 21 MEMBERS	14.22 TONS			624.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
FLOOR FRAMING	W12 X 27 MEMBERS	8.37 TONS			624.50	
FLOOR FRAMING	W14 X 30 MEMBERS	2.70 TONS			624.50	
FLOOR FRAMING	W16 X 36 MEMBERS	2.88 TONS			624.50	
FLOOR FRAMING	W16 X 50 MEMBERS	.50 TONS			624.50	
FLOOR FRAMING	W18 X 50 MEMBERS	1.50 TONS			624.50	
FLOOR FRAMING	W21 X 62 MEMBERS	4.09 TONS			624.50	
FLOOR FRAMING	W8 X 13 MEMBERS	.35 TONS			624.50	
FLOOR FRAMING	W8 X 15 MEMBERS	3.32 TONS			624.50	
FLOOR FRAMING	W8 X 15 MEMBERS	.10 TONS			624.50	
FLOOR FRAMING	W8 X 17 MEMBERS	.74 TONS			624.50	
MISC STEEL	MEDIUM FLOOR PLATE	29.00 TONS			624.50	
MISC STEEL	STEEL HANDRAILS	3.60 TONS			624.50	
COLUMN DEMO	W10 X 21 MEMBERS	8.61 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	7.20 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	4.72 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	32.04 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	.78 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	.19 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	6.39 TONS			636.00	
ROOF FRAMING	C-CHANNEL FRAMING	.92 TONS			636.00	
ROOF FRAMING	MISC ANGLE FRAMING	.26 TONS			636.00	
ROOF FRAMING	MISC. ANGLES	.96 TONS			636.00	
ROOF FRAMING	MISC. ANGLES	.96 TONS			636.00	
ROOF FRAMING	W10 X 21 MEMBERS	1.17 TONS			636.00	
ROOF FRAMING	W10 X 21 MEMBERS	1.26 TONS			636.00	
ROOF FRAMING	W12 X 27 MEMBERS	1.19 TONS			636.00	
ROOF FRAMING	W12 X 27 MEMBERS	1.62 TONS			636.00	
ROOF FRAMING	W12 X 27 MEMBERS	2.80 TONS			636.00	
ROOF FRAMING	W12 X 31 MEMBERS	.56 TONS			636.00	
ROOF FRAMING	W14 X 30 MEMBERS	6.39 TONS			636.00	
ROOF FRAMING	W14 X 30 MEMBERS	1.32 TONS			636.00	
ROOF FRAMING	W14 X 30 MEMBERS	2.19 TONS			636.00	
ROOF FRAMING	W21 X 44 MEMBERS	2.40 TONS			636.00	
ROOF FRAMING	W8 X 17 MEMBERS	2.40 TONS			636.00	
ROOF FRAMING	W8 X 17 MEMBERS	.34 TONS			636.00	
ROOF FRAMING	W8 X 17 MEMBERS	1.34 TONS			636.00	
ROOF FRAMING	W8 X 24 MEMBERS	1.44 TONS			636.00	
DOORS	DOORS	ABOVE GRADE	B	154.33	308.67	3.09
EXT DOOR DEMO	EXT DOORS (MAN & OH)	926.00 SQFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	139.63	279.26	23.47
ELECTRICAL DEMO	2" DIAMETER & LESS	413.64 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	1753.64 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	5980.91 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	3235.45 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	222.73 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	4561.82 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	797.27 LNFT			598.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			598.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	161.82 LNFT			598.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			610.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	1002.73 LNFT			610.50	

000189

Source: 1A PREPARATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	161.82 LNFT			610.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			624.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	588.18 LNFT			624.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	121.82 LNFT			624.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	60.84	121.68	6.61
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	811.88 LNFT			585.50	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	197.03 LNFT			598.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	23.91 LNFT			610.50	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	57	1.13	.05
ELECTRICAL DEMO	CABLE TRAYS	3.46 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	512.00	1024.00	3.20
ELECTRICAL DEMO	ELECTRICAL FIXTURES	65.00 EACH			585.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			585.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			598.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	78.00 EACH			598.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			610.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			610.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	54.00 EACH			624.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			624.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	450.00	900.00	11.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	45.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2594.70	9081.45	18.34
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2883.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1169.10	4091.85	6.26
EQUIPMENT DEMO	HVAC EQUIPMENT	1299.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	7659.90	26809.65	78.33
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	8511.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	25449.30	89072.55	123.56
EQUIPMENT DEMO	PROCESS EQUIPMENT	28277.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	616.44	1232.89	69.46
PIPING DEMO	2" DIAMETER & LESS	225.08 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	476.61 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	395.93 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	98.64 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	100.00 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	82.03 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	98.64 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	170.85 LNFT			585.50	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	49.83	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	2.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	82.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	66.10	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	100.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	80.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	68.81	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.69	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	49.83	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	2.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	56.27	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	45.76	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	37.97	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	123.05	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	605.08	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	172.88	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	335.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	47.80	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	180.68	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	280.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	54.92	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	136.95	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	52.20	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.02	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	15.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	56.27	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	170.85	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	52.20	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.02	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	15.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	346.78	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	200.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	343.73	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.22	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	192.88	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	88.14	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	346.78	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	395.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	225.08	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	88.14	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	476.61	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	66.10	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		585.50	

000191

Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	327.12 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	294.92 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	780.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	52.20 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	327.12 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	17.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	17.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	90.85 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	557.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	13.90 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	52.20 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	294.92 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	63.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	184.07 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	609.83 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	34.92 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	49.15 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	184.07 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	102.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	81.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	609.83 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	560.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	627.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	238.98 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	819.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	221.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	539.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	5.08 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.12 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	317.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	123.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	780.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	102.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	627.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	63.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	560.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	81.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	238.98 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	819.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	221.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			610.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	107.12	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	20.00	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	65.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	35.93	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	568.14	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	364.07	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	568.14	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	25.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	6.10	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	364.07	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	154.24	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	58.31	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	25.08	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	6.10	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	64.07	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	107.12	LNFT		610.50	
PIPING DEMO	2" DIAMETER & LESS	378.64	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	24.07	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	4.07	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	370.85	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	8.14	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	47.12	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	370.85	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	378.64	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	7.12	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	6.10	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	27.80	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	58.31	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	11.19	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	68.81	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	68.81	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	6.10	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	4.07	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	7.12	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	24.07	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	58.31	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	27.80	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	11.19	LNFT		624.50	
PIPING DEMO	2" DIAMETER & LESS	58.98	LNFT		641.00	
PIPING DEMO	2" DIAMETER & LESS	58.98	LNFT		641.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	889.84	1779.67	63.73
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93	LNFT		585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	366.53	LNFT		585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93	LNFT		585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	128.80	LNFT		585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73	LNFT		585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93	LNFT		585.50	

000193

Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	124.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	157.87 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	52.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	433.47 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	342.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	155.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	182.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	342.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	223.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	84.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	366.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	113.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	113.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	67.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	22.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	412.40 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	22.00 LNFT			598.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	412.40 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT				598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	97.87 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	98.93 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	175.73 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	185.73 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	52.93 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	98.93 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.93 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.93 LNFT				610.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.93 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT				624.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	112.80 LNFT				641.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	112.80 LNFT				641.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE		B	3.14	6.28	.23
STORM SEWER DEMO	ST-4"CI	30.00 LNFT				.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE		B	543.46	1086.92	24.00
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	118.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT				585.50	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT				598.00	
PIPING DEMO	OVER 4" DIAMETER	36.00 LNFT				598.00	
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT				598.00	

000195

Source: 1A PREPARATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
PIPING DEMO	OVER 4" DIAMETER	74.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	36.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	74.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	38.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	38.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			610.50	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	31.42	62.83	1.39
SANITARY SEWER DEMO	SN-6"	75.00 LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	288.30	1009.05	2.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2883.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	129.90	454.65	.70
EQUIPMENT DEMO	HVAC EQUIPMENT	1299.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	851.10	2978.85	8.70
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	8511.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	2827.70	9896.95	13.73
EQUIPMENT DEMO	PROCESS EQUIPMENT	28277.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	68.49	136.99	7.72
PIPING DEMO	2" DIAMETER & LESS	225.08 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	476.61 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	395.93 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	98.64 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	100.00 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	82.03 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	98.64 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	170.85 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	49.83 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90 LNFT			585.50	

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	2.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	82.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	66.10	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	100.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	80.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	68.81	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.69	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	49.83	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	2.03	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	56.27	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	45.76	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	37.97	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	123.05	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	605.08	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	172.88	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	335.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	47.80	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	180.68	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	280.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	54.92	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	136.95	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	52.20	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.02	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	15.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	56.27	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	170.85	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	52.20	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.90	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	41.02	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	15.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	346.78	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	111.86	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	200.00	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	343.73	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	33.22	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	192.88	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	88.14	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	346.78	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	395.93	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	225.08	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	88.14	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	476.61	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	66.10	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	50.85	LNFT		585.50	
PIPING DEMO	2" DIAMETER & LESS	327.12	LNFT		598.00	
PIPING DEMO	2" DIAMETER & LESS	294.92	LNFT		598.00	

Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	780.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	52.20 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	327.12 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	17.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	17.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	90.85 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	557.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	13.90 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	52.20 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	294.92 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	63.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	184.07 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	609.83 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	34.92 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	49.15 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	184.07 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	102.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	81.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	609.83 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	560.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	627.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	238.98 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	819.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	221.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	539.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	5.08 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.12 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	317.97 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	123.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	780.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	102.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	627.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	63.05 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	560.68 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	81.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	238.98 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	819.66 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	221.02 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	107.12 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08 LNFT			610.50	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	20.00 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	65.08 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	35.93 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	568.14 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	45.08 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	50.85 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	364.07 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	568.14 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	25.08 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	364.07 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	154.24 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	58.31 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	25.08 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	50.85 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	107.12 LNFT			610.50	
PIPING DEMO	2" DIAMETER & LESS	378.64 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	24.07 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	4.07 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	370.85 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	8.14 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	47.12 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	370.85 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	378.64 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	7.12 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	58.31 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	11.19 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	68.81 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	68.81 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	4.07 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	7.12 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	24.07 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	58.31 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	27.80 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	11.19 LNFT			624.50	
PIPING DEMO	2" DIAMETER & LESS	58.98 LNFT			641.00	
PIPING DEMO	2" DIAMETER & LESS	58.98 LNFT			641.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	98.87	197.74	7.08
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	366.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	128.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	

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Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	124.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	157.87 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	66.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	52.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	433.47 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	342.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	155.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	182.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	342.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	223.73 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	84.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	366.53 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.93 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.80 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	113.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	113.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	67.87 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	22.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	412.40 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	22.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT			598.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	183.73 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	412.40 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT		598.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	97.87 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	98.93 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	175.73 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	185.73 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	52.93 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	98.93 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.93 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.93 LNFT		610.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.93 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT		624.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	112.80 LNFT		641.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	112.80 LNFT		641.00		
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	35.60	71.21	2.55
SUMP LIQUOR DEMO	SL-20-4"L1	5.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-23-4"L1	30.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-26-4"L1	25.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-27-4"L1	15.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-28-4"L1	30.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-29-4"L1	15.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-3"L1	55.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-38-4"L1	60.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-4"L1	25.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-40-4"L1	25.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-46-4"L1	10.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-52-4"L1	40.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-54-4"L1	5.00 LNFT		.00		
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	60.38	120.77	2.67
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT		585.50		
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT		585.50		
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT		585.50		

Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	118.97 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	36.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	74.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	36.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	74.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	44.97 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT			598.00	
PIPING DEMO	OVER 4" DIAMETER	38.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	38.97 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			610.50	
PIPING DEMO	OVER 4" DIAMETER	12.97 LNFT			610.50	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	62.83	125.66	2.78
SUMP LIQUOR DEMO	SL-30-6"L1	50.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-31-6"L1	45.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-32-6"L1	45.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-53-6"L1	10.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	316.65	633.30	87.37
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	151.27 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	157.82 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	175.27 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	71.27 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	170.91 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	48.00 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	80.00 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	387.63 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	9.45 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	35.64 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1101.09 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	353.45 SQFT			585.50	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
HVAC DEMO	DUCTWORK DEMO (ROUND)	9.45 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	40.73 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	35.64 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	387.63 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	755.63 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1101.09 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	24.00 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	24.00 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	40.73 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	727.27 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	126.54 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	755.63 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	353.45 SQFT			585.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1529.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	316.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	682.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	316.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	682.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	23.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	23.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1383.99 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1383.99 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	490.91 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	104.73 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	123.64 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	183.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	108.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	311.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	879.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	192.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1076.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	556.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	133.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	98.91 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	75.64 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	212.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	202.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	181.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	460.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	443.63 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	41.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	213.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	162.91 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	113.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	134.54 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	556.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	133.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	98.91 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	202.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	181.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	460.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	443.63 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	328.73 SQFT			598.00	

Source: 1A PREPARATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
HVAC DEMO	DUCTWORK DEMO (ROUND)	627.63 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	143.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	78.55 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	247.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	119.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	364.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	75.64 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	209.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1328.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	248.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	192.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1076.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	277.82 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	328.73 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	592.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	93.82 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	212.36 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	205.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	41.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	434.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	113.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	627.63 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	143.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	592.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	93.82 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	205.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	327.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	434.18 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	327.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	213.09 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	162.91 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1328.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	134.54 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	311.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	879.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	277.82 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	209.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	9.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	727.27 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	160.00 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	233.45 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	496.73 SQFT			598.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	49.45 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1479.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	219.64 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1479.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2783.99 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	247.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	219.64 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	247.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	341.09 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	10.18 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	86.55 SQFT			610.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (ROUND)	536.00 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	214.54 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	536.00 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	265.45 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	535.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	19.64 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	265.45 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	535.27 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	19.64 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	669.82 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1016.72 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	453.82 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	440.73 SQFT			610.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1162.90 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	27.64 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1121.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	343.27 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	343.27 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	27.64 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	165.09 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	110.55 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	165.09 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1121.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	754.18 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	497.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	123.64 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	855.27 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	625.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	67.64 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1205.09 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	67.64 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	497.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	457.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	434.91 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	377.45 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1205.09 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	855.27 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	579.63 SQFT			624.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	408.00 SQFT			624.50	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	1.27	2.54	.45
LEAD FLASHING DEMO	LEAD FLASHING	900.00 LBS			585.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.67	41.33	.41
LOUVER DEMO	EXT LOUVERS	124.00 SQFT			585.50	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	.86	1.71	.21
METAL WALL PANEL DEMO	INT. METAL PANELS	384.00 SQFT			585.50	
CONCRETE	CONCRETE	BELOW GRADE	B	9255.51	12032.16	694.16
CONCRETE CURBING DEMO	CURBING	.39 CUYD			.00	
CONCRETE CURBING DEMO	CURBING PERIMETER	2.78 CUYD			.00	
CONCRETE DEMO	CONCRETE CONVEYOR	5.93 CUYD			.00	

Source: 1A PREPARATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE DEMO	CONCRETE CONVEYOR	32.17 CUYD		.00		
CONCRETE DEMO	CONCRETE CONVEYOR	4.61 CUYD		.00		
CONCRETE DEMO	CONCRETE CONVEYOR	8.54 CUYD		.00		
CONCRETE DEMO	CONCRETE CONVEYOR	32.34 CUYD		.00		
CONCRETE DEMO	CONCRETE CONVEYOR	17.49 CUYD		.00		
CONCRETE TRENCH DEMO	SERVICE LINE TRENCH	232.63 CUYD		.00		
MISC CONCRETE DEMO	CONCRETE TRENCH BELOW GRADE	5.93 CUYD		.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2755.90	3582.67	206.69
CONCRETE FOOTING DEMO	FOOTINGS	.25 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	8.03 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	10.80 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	4.58 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	.20 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	13.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	29.21 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	7.84 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	9.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	2.22 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	7.71 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 10-10	.55 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 11-11	.67 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 13-13	1.24 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 14-14	1.76 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 15-15	.20 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 2-2	.05 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 20-20	1.44 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 6-6	.31 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 7-7	.87 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION 8-8	.67 CUYD		.00		
CONCRETE FOUNDATION DEMO	SECTION D-D	.61 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.03 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.04 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.62 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.04 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.08 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.05 CUYD		.00		
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	4212.00	5475.60	315.90
CONCRETE SLAB DEMO	CONCRETE SLABS	104.00 CUYD		598.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	52.00 CUYD		610.50		
CONCRETE	CONCRETE SLABS	AT GRADE	E	8002.80	10403.64	600.21
CONCRETE SLAB DEMO	CONCRETE SLABS	103.90 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	125.20 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	20.00 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	4.70 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	42.60 CUYD		.00		
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	640.01	832.01	48.00
CONCRETE WALL DEMO	CONCRETE WALLS	23.70 CUYD		585.50		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	166.67	216.67	4.58

Source: 1A PREPARATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MASONRY WALL DEMO	MASONRY WALLS	250.00 SQFT			610.50	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	84.00	168.00	1.01
CEILING DEMO	CEILING DEMO	800.00 SQFT			585.50	
CEILING DEMO	CEILING DEMO	544.00 SQFT			585.50	
TILE	FLOOR TILE	ABOVE GRADE	G	5.42	6.50	.26
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	260.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	17.87	21.45	.86
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	858.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	1079.17	1295.00	60.68
EXT TRANSITE DEMO	EXT TRANSITE PANELS	29600.00 SQFT			585.50	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	895.42	1074.50	49.43
INT TRANSITE DEMO	INT TRANSITE PANELS	42980.00 SQFT			585.50	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	692.71	831.25	38.95
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	19000.00 SQFT			636.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	529.52	2118.08	1.19
HVAC DEMO	INSULATION	6354.23 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	554.22	2216.87	1.25
PIPING DEMO	INSULATION	6650.60 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	206.39	247.67	.31
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1289.93 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	5.15	10.31	.17
ELECTRICAL GROUND DEMO	#2/0 GROUND	945.00 LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	8100.00	9720.00	18.23
INSULATION DEMO	INSULATION (BAT)	48600.00 SQFT			585.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	440.00	880.00	6.60
MISC. MATERIAL DEMO	MISC. DEBRIS	440.00 CUFT			585.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	1083.54	1300.25	1.64
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1289.93 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	300.00	600.00	6.00
WINDOW DEMO	WINDOWS	1800.00 SQFT			585.50	

Source: 1B PLANT 1 STORAGE SHELTER Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	124.37	2076.93	30.47
ROOF FRAMING	C CHANNEL FRAMING	17.30 TONS			585.00	
ROOF FRAMING	MISC ANGLE FRAMING	1.67 TONS			585.00	
ROOF FRAMING	W08 X 24 MEMBERS	11.50 TONS			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.97	11.95	1.00
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.80	17.60	.96
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	149.38 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	24.00	48.00	.15
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			585.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	2.12	4.23	.52
METAL WALL PANEL DEMO	EXT. METAL PANELS	950.00 SQFT			585.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	30.07	60.14	7.43
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	13500.00 SQFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6681.35	8685.76	501.10
CONCRETE FOOTING DEMO	FOOTINGS	247.46 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	6420.00	8346.00	481.50
CONCRETE SLAB DEMO	SLAB AT GRADE	237.78 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	40.22	48.26	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	251.35 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	125.00	250.00	1.88
MISC. MATERIAL DEMO	MISC. DEBRIS	125.00 CUFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	211.13	253.36	.32
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	251.35 CUFT			.00	

Source: 1C PLANT 1 ORE SILOS Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	7745.44	10069.07	580.91

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE FOOTING DEMO	FOOTINGS	1.78 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	15.76 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	37.43 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	62.74 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	4.01 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	75.94 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	62.69 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	11.11 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	8.69 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	.30 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	.32 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	3.08 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	3.02 CUYD	.00

Source: 20A PUMP STATION AND POWER CENTER Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	55.67	929.68	13.64
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	2.56 TONS			585.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	2.57 TONS			585.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	3.75 TONS			585.00	
ROOF FRAMING DEMO	MISC STEEL	2.00 TONS			585.00	
ROOF FRAMING DEMO	MISC. ANGLES	1.00 TONS			585.00	
ROOF FRAMING DEMO	THREADED RODS	.50 TONS			585.00	
ROOF FRAMING DEMO	W6 X 15 MEMBERS	1.26 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	29.17	58.33	.58
EXT DOOR DEMO	EXT DOORS (MAN & OH)	175.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.06	6.12	.51
ELECTRICAL DEMO	2" DIAMETER & LESS	141.82 LNFT			585.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	84.55 LNFT			585.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			585.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	220.91 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	9.14	18.28	.99
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	73.59 LNFT			585.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	31.88 LNFT			585.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	49.69 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	40.00	80.00	.25
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			585.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	6.29	12.59	.71
PIPING DEMO	2" DIAMETER & LESS	192.88 LNFT			585.00	
PIPING DEMO	2" DIAMETER & LESS	33.22 LNFT			585.00	
PIPING DEMO	2" DIAMETER & LESS	41.02 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	26.73	53.46	1.91
PIPING DEMO	2-1/2" TO 4" DIAMETER	205.73 LNFT			585.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	77.87 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	487.32	974.63	21.52
PIPING DEMO	OVER 4" DIAMETER	595.84 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	100.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	100.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	46.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	447.89 LNFT			585.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.70	1.40	.08
PIPING DEMO	2" DIAMETER & LESS	192.88 LNFT			585.00	
PIPING DEMO	2" DIAMETER & LESS	33.22 LNFT			585.00	
PIPING DEMO	2" DIAMETER & LESS	41.02 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	2.97	5.94	.21
PIPING DEMO	2-1/2" TO 4" DIAMETER	205.73 LNFT			585.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	77.87 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	54.15	108.29	2.39
PIPING DEMO	OVER 4" DIAMETER	595.84 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	100.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	100.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	46.97 LNFT			585.00	
PIPING DEMO	OVER 4" DIAMETER	447.89 LNFT			585.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.14	.28	.05
LEAD FLASHING DEMO	LEAD FLASHING	100.00 LBS			585.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	4.00	8.00	.08
LOUVER DEMO	EXT LOUVERS	24.00 SQFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1117.85	1453.20	83.84
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (PUMP)	7.24 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (COLUMN)	3.12 CUYD			.00	
CONCRETE FOUNDATION DEMO	FOUNDATION (BOOSTER PUMP PAD)	.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	30.85 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	435.06	565.57	32.63
CONCRETE SLAB DEMO	SLAB AT GRADE	16.11 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	69.18	83.02	3.89
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1897.50 SQFT			585.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	85.21	102.25	4.70
INT TRANSITE DEMO	INT TRANSITE PANELS	4090.00 SQFT			585.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	47.83	57.40	2.69
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1312.00 SQFT			585.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	65.26	261.04	.15
PIPING DEMO	INSULATION	783.13 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	21.25	25.50	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	1.12	2.24	.04
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	140.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	65.00 LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	534.92	641.90	1.20
INSULATION DEMO	INSULATION (BAT)	3209.50 SQFT			585.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	111.54	133.85	.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	84.00	168.00	1.68

000211

Source: 20A PUMP STATION AND POWER CENTER Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
WINDOW DEMO	WINDOWS	504.00 SQFT			585.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	223.85	3738.35	54.84
COLUMN DEMO	W12 X 27 MEMBERS	3.12 TONS			586.50	
COLUMN DEMO	W12 X 53 MEMBERS	5.41 TONS			586.50	
COLUMN DEMO	W16 X 40 MEMBERS	6.44 TONS			586.50	
COLUMN DEMO	W8 X 17 MEMBERS	.43 TONS			586.50	
COLUMN DEMO	W8 X 17 MEMBERS	.63 TONS			586.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.17 TONS			586.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.05 TONS			586.50	
FLOOR FRAMING	W10 X 33 MEMBERS	.36 TONS			586.50	
FLOOR FRAMING	W12 X 27 MEMBERS	.52 TONS			586.50	
FLOOR FRAMING	W12 X 31 MEMBERS	.60 TONS			586.50	
FLOOR FRAMING	W12 X 31 MEMBERS	.57 TONS			586.50	
FLOOR FRAMING	W12 X 31 MEMBERS	1.71 TONS			586.50	
FLOOR FRAMING	W16 X 26 MEMBERS	.43 TONS			586.50	
FLOOR FRAMING	W16 X 31 MEMBERS	1.55 TONS			586.50	
FLOOR FRAMING	W18 X 50 MEMBERS	1.10 TONS			586.50	
FLOOR FRAMING	W8 X 17 MEMBERS	.65 TONS			586.50	
FLOOR FRAMING	W8 X 24 MEMBERS	.79 TONS			586.50	
WALL FRAMING	C-CHANNEL FRAMING	1.68 TONS			586.50	
WALL FRAMING	C-CHANNEL FRAMING	2.52 TONS			586.50	
WALL FRAMING	MISC STEEL	.10 TONS			586.50	
WALL FRAMING	MISC. ANGLES	2.32 TONS			586.50	
WALL FRAMING	STAIR FRAMING	1.25 TONS			586.50	
WALL FRAMING	WT6 X 11 MEMBERS	1.29 TONS			586.50	
WALL FRAMING	WT6 X 11 MEMBERS	.28 TONS			586.50	
WALL FRAMING	WT6 X 6 MEMBERS	.26 TONS			586.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.24 TONS			595.50	
FLOOR FRAMING	STAIR FRAMING	.63 TONS			595.50	
FLOOR FRAMING	W10 X 21 MEMBERS	.63 TONS			595.50	
FLOOR FRAMING	W12 X 27 MEMBERS	.20 TONS			595.50	
FLOOR FRAMING	W14 X 30 MEMBERS	1.58 TONS			595.50	
FLOOR FRAMING	W18 X 50 MEMBERS	1.30 TONS			595.50	
ROOF FRAMING	C-CHANNEL FRAMING	.42 TONS			599.17	
ROOF FRAMING	C-CHANNEL FRAMING	.68 TONS			599.17	
ROOF FRAMING	MISC STEEL	.10 TONS			599.17	
ROOF FRAMING	MISC. ANGLES	.10 TONS			599.17	
ROOF FRAMING	W10 X 21 MEMBERS	2.63 TONS			599.17	
ROOF FRAMING	W12 X 27 MEMBERS	1.19 TONS			599.17	
ROOF FRAMING	W14 X 30 MEMBERS	.60 TONS			599.17	
ROOF FRAMING	W8 X 17 MEMBERS	.45 TONS			599.17	
ROOF FRAMING	C-CHANNEL FRAMING	.86 TONS			605.50	
ROOF FRAMING	C-CHANNEL FRAMING	.04 TONS			605.50	
ROOF FRAMING	C-CHANNEL FRAMING	1.15 TONS			605.50	
ROOF FRAMING	C-CHANNEL FRAMING	.74 TONS			605.50	
ROOF FRAMING	MISC. ANGLES	.29 TONS			605.50	
ROOF FRAMING	W10 X 21 MEMBERS	.53 TONS			605.50	
ROOF FRAMING	W10 X 21 MEMBERS	.55 TONS			605.50	
ROOF FRAMING	W12 X 31 MEMBERS	.75 TONS			605.50	
ROOF FRAMING	W12 X 31 MEMBERS	.29 TONS			605.50	
ROOF FRAMING	W8 X 17 MEMBERS	.64 TONS			605.50	
ROOF FRAMING	WT6 X 18 MEMBERS	1.50 TONS			605.50	
ROOF FRAMING	WT6 X 6 MEMBERS	.09 TONS			605.50	

000213

Source: 20B WATER PLANT Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ROOF FRAMING	C-CHANNEL FRAMING	.03 TONS			617.75	
ROOF FRAMING	MISC STEEL	.10 TONS			617.75	
ROOF FRAMING	MISC. ANGLES	.10 TONS			617.75	
ROOF FRAMING	W12 X 27 MEMBERS	.22 TONS			617.75	
ROOF FRAMING	W12 X 31 MEMBERS	.77 TONS			617.75	
ROOF FRAMING	W8 X 24 MEMBERS	.61 TONS			617.75	
ROOF FRAMING	WT6 X 11 MEMBERS	.62 TONS			617.75	
DOORS	DOORS	ABOVE GRADE	B	63.33	126.67	1.27
EXT DOOR DEMO	EXT DOORS (MAN & OH)	380.00 SQFT			586.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.52	7.03	.59
ELECTRICAL DEMO	2" DIAMETER & LESS	526.36 LNFT			586.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	10.91 LNFT			586.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	104.00	208.00	.65
ELECTRICAL DEMO	ELECTRICAL FIXTURES	52.00 EACH			586.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	324.00	1134.00	2.43
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	360.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2973.60	10407.60	121.14
EQUIPMENT DEMO	PROCESS EQUIPMENT	3304.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	64.13	128.26	7.23
PIPING DEMO	2" DIAMETER & LESS	13.22 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	47.12 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	391.86 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	527.12 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	156.95 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	43.05 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	97.97 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	268.81 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	154.92 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	209.83 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	248.81 LNFT			586.50	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			595.50	
PIPING DEMO	2" DIAMETER & LESS	4.07 LNFT			595.50	
PIPING DEMO	2" DIAMETER & LESS	341.69 LNFT			595.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	107.40	214.81	7.69
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	70.93 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	251.60 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	240.67 LNFT			586.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	311.60		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.93		LNFT		595.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B		1392.22	2784.43	61.49
PIPING DEMO	OVER 4" DIAMETER	78.00		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	30.97		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	290.92		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	1079.68		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	524.86		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	149.95		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	789.78		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	156.97		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	76.97		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	288.92		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	185.95		LNFT		586.50	
PIPING DEMO	OVER 4" DIAMETER	40.00		LNFT		595.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C		36.00	126.00	.27
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	360.00		CUFT		.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C		330.40	1156.40	13.46
EQUIPMENT DEMO	PROCESS EQUIPMENT	3304.00		CUFT		.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C		7.13	14.25	.80
PIPING DEMO	2" DIAMETER & LESS	13.22		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	47.12		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	391.86		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	6.10		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	527.12		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	156.95		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	43.05		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	97.97		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	268.81		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	154.92		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	209.83		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	105.08		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	248.81		LNFT		586.50	
PIPING DEMO	2" DIAMETER & LESS	105.08		LNFT		595.50	
PIPING DEMO	2" DIAMETER & LESS	4.07		LNFT		595.50	
PIPING DEMO	2" DIAMETER & LESS	341.69		LNFT		595.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C		11.93	23.87	.85
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	70.93		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	251.60		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00		LNFT		586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	240.67		LNFT		586.50	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.00 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	311.60 LNFT			586.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.93 LNFT			595.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	154.69	309.38	6.83
PIPING DEMO	OVER 4" DIAMETER	78.00 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	30.97 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	290.92 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	1079.68 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	524.86 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	789.78 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	156.97 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	76.97 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	288.92 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	185.95 LNFT			586.50	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			595.50	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	3.26	6.52	.90
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	45.82 SQFT			586.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	192.73 SQFT			586.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	17.45 SQFT			586.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	155.64 SQFT			595.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	23.27 SQFT			595.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	112.73 SQFT			595.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	30.55 SQFT			595.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	45.09 SQFT			595.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	30.55 SQFT			595.50	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.07	.14	.03
LEAD FLASHING DEMO	LEAD FLASHING	50.00 LBS			586.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	10.00	20.00	.20
LOUVER DEMO	EXT LOUVERS	60.00 SQFT			586.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	6.68	13.37	1.65
METAL WALL PANEL DEMO	EXT. METAL PANELS	3000.00 SQFT			586.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	3.01	6.01	.74
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1350.00 SQFT			586.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	18587.45	24163.69	1394.06
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (REACTIVATOR)	335.80 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A (INTERIOR)	14.05 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS B	3.40 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS E	3.33 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F	2.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS H, J	5.99 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS M	1.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	15.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	303.05 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A	2.17 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS B	.50 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS E	.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS H, J	.66 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS M	.54 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	328.05	426.47	24.60
MISC CONCRETE DEMO	MISC. CONCRETE SLABS	12.15 CUYD			595.50	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2358.33	3065.83	176.88
CONCRETE SLAB DEMO	SLAB AT GRADE	79.94 CUYD			.00	
CONCRETE SLAB DEMO	TOP SLAB AT GRADE (VALVE PIT)	7.41 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	200.00	260.00	15.00
CONCRETE SLAB DEMO	BOTTOM SLAB BELOW GRADE (VALVE PIT)	7.41 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	233.33	303.33	17.50
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	3.70 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GRADE (VALVE PIT)	4.94 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	125.05	150.06	7.03
EXT TRANSITE DEMO	EXT TRANSITE PANELS	3430.00 SQFT			586.50	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	39.53	47.44	2.18
INT TRANSITE DEMO	INT TRANSITE PANELS	1897.50 SQFT			586.50	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	5.45	21.79	.01
HVAC DEMO	INSULATION	65.38 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	215.86	863.45	.49
PIPING DEMO	INSULATION	2590.36 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	43.25	51.90	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	270.32 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	926.33	1111.60	2.08
INSULATION DEMO	INSULATION (BAT)	1898.00 SQFT			586.50	
INSULATION DEMO	INSULATION (RIGID)	3660.00 SQFT			586.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			586.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	227.07	272.48	.34
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	270.32 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	305.00	610.00	10.98
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	3660.00 SQFT			586.50	
WINDOWS	WINDOWS	ABOVE GRADE	I	103.33	206.67	2.07
WINDOW DEMO	WINDOWS	620.00 SQFT			586.50	

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Source: 20C COOLING TOWERS Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	22.76	380.08	5.58
MISC. STEEL DEMO	MISC ANGLE FRAMING	.46 TONS			585.50	
MISC. STEEL DEMO	MISC STEEL	1.00 TONS			585.50	
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			585.50	
MISC. STEEL DEMO	STEEL GRATING	3.12 TONS			585.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.07	6.14	.52
ELECTRICAL DEMO	2" DIAMETER & LESS	53.64 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	319.09 LNFT			585.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	14.00	28.00	.09
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH			585.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	176874.00	619059.00	188.95
EQUIPMENT DEMO	PROCESS EQUIPMENT	176874.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	12.88	25.75	1.45
PIPING DEMO	2" DIAMETER & LESS	225.08 LNFT			585.50	
PIPING DEMO	2" DIAMETER & LESS	266.78 LNFT			585.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	72.06	144.12	5.16
PIPING DEMO	2-1/2" TO 4" DIAMETER	409.47 LNFT			585.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	278.67 LNFT			585.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	383.17	766.34	16.92
PIPING DEMO	OVER 4" DIAMETER	671.84 LNFT			585.50	
PIPING DEMO	OVER 4" DIAMETER	242.92 LNFT			585.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	268.33	536.67	5.37
LOUVER DEMO	EXT LOUVERS	1610.00 SQFT			585.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	5301.32	6891.72	397.60
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (PUMP PAD)	117.96 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	40.13 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (CENTER)	9.58 CUYD			.00	
CONCRETE STAIRWAY DEMO	FOUNDATION (STAIR PADS)	28.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2111.50	2744.95	158.36
CONCRETE SLAB DEMO	SLAB AT GRADE	.59 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	77.61 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	1782.00	2316.60	133.65
CONCRETE WALL DEMO	WALLS (CENTER)	66.00 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	434.36	521.24	24.42
EXT TRANSITE DEMO	EXT TRANSITE PANELS	11914.00 SQFT			585.50	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	60.24	240.96	.14

Source: 20C COOLING TOWERS Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	INSULATION	722.89 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	R	25.04	30.05	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	156.50 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	131.46	157.75	.20
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	156.50 CUFT			.00	
WOOD	WOOD	ABOVE GRADE	I	4840.00	9680.00	72.60
ROOF FRAMING DEMO	WOOD FRAMING	4840.00 CUFT			585.50	

000219

Source: 20D ELEVATED POTABLE STORAGE TANK Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	520.82	8697.63	127.60
COLUMN DEMO	C-CHANNEL FRAMING	33.00 TONS			580.00	
COLUMN DEMO	TUBE STEEL FRAMING	15.40 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	6.00 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	3.20 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	3.00 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (WALKWAYS)	4.90 TONS			580.00	
MISC. STEEL DEMO	THREADED RODS	7.10 TONS			580.00	
STEEL PLATES	TANK PLATE STEEL	55.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	8.38	16.76	1.41
ELECTRICAL DEMO	2" DIAMETER & LESS	1280.00 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.47	2.95	.16
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	25.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	50.00	175.00	.30
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	50.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.50	8.75	.06
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.50 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.79	1.57	.09
PIPING DEMO	2" DIAMETER & LESS	30.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	161.27	322.54	7.12
PIPING DEMO	OVER 4" DIAMETER	385.00 LNFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	8573.12	11145.06	642.98
CONCRETE PEDESTAL DEMO	CENTER PEDESTAL	14.47 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	303.05 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	184.08	239.31	13.81
CONCRETE SLAB DEMO	SLAB AT GRADE	6.82 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	17.13	68.50	.04
PIPING DEMO	INSULATION	205.51 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	251.33	301.60	.57
INSULATION DEMO	INSULATION (RIGID)	1508.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	

Source: 20E WELL HOUSE #1 Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.55	1.10	.09
ELECTRICAL DEMO	2" DIAMETER & LESS	84.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	27.00	94.50	.16
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	10.80	37.80	1.80
EQUIPMENT DEMO	PROCESS EQUIPMENT	12.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.51	3.02	.11
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	12.06	24.13	.53
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	3.00	10.50	.02
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.40	1.40	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.20	4.20	.20
EQUIPMENT DEMO	PROCESS EQUIPMENT	12.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.17	.34	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	1.34	2.68	.06
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT			580.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.04	.08	.01
LEAD FLASHING DEMO	LEAD FLASHING	28.00 LBS			580.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	4.05	5.27	.30
CONCRETE BEAM DEMO	CONCRETE BEAMS	.15 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	80.00	104.00	6.00
CONCRETE SLAB DEMO	SLAB AT GRADE	2.96 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	295.33	383.93	8.12
MASONRY WALL DEMO	MASONRY WALLS	443.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.74	6.98	.00

000221

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	INSULATION	20.94 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	13.33	26.67	.48
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	160.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	4.50	9.00	.09
WINDOW DEMO	WINDOWS	27.00 SQFT			580.00	
WOOD	WOOD	ABOVE GRADE	I	33.42	66.84	.50
MISC. MATERIAL DEMO	WOOD FRAMING	33.42 CUFT			580.00	

Source: 20F WELL HOUSE #2 Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.65	1.31	.11
ELECTRICAL DEMO	2" DIAMETER & LESS	100.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	37.80	132.30	.23
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	42.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	10.80	37.80	1.80
EQUIPMENT DEMO	PROCESS EQUIPMENT	12.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.51	3.02	.11
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	12.06	24.13	.53
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	4.20	14.70	.03
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	42.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.40	1.40	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.20	4.20	.20
EQUIPMENT DEMO	PROCESS EQUIPMENT	12.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.17	.34	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			577.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	1.34	2.68	.06
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT			577.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.04	.08	.01
LEAD FLASHING DEMO	LEAD FLASHING	28.00 LBS			577.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	4.05	5.27	.30
CONCRETE BEAM DEMO	CONCRETE BEAMS	.15 CUYD			577.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	80.00	104.00	6.00
CONCRETE SLAB DEMO	SLAB AT GRADE	2.96 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	B	296.67	385.67	8.16
MASONRY WALL DEMO	MASONRY WALLS	445.00 SQFT			577.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.74	6.98	.00

000223

Source: 20F WELL HOUSE #2 Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	INSULATION	20.94 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	13.33	26.67	.48
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	160.00 SQFT			577.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	4.17	8.33	.08
WINDOW DEMO	WINDOWS	25.00 SQFT			577.00	
WOOD	WOOD	ABOVE GRADE	I	33.42	66.84	.50
MISC. MATERIAL DEMO	WOOD FRAMING	33.42 CUFT			577.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.57	26.17	.38
MISC. STEEL DEMO	C-CHANNEL FRAMING	.05 TONS			575.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.08 TONS			575.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.05 TONS			575.00	
MISC. STEEL DEMO	MISC FLOOR PLATE	.02 TONS			575.00	
MISC. STEEL DEMO	STEEL GRATING	.19 TONS			575.00	
DOORS	DOORS	ABOVE GRADE	B	8.00	16.00	.16
EXT DOOR DEMO	EXT DOORS (MAN & OH)	48.00 SQFT			575.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			575.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			575.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	326.70	1143.45	1.26
EQUIPMENT DEMO	PROCESS EQUIPMENT	363.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.40	1.40	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	36.30	127.05	.14
EQUIPMENT DEMO	PROCESS EQUIPMENT	363.00 CUFT			.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.04	.08	.01
LEAD FLASHING DEMO	LEAD FLASHING	28.00 LBS			575.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.17	4.33	.04
LOUVER DEMO	EXT LOUVERS	13.00 SQFT			575.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	8.64	11.23	.65
CONCRETE BEAM DEMO	CONCRETE BEAMS	.32 CUYD			575.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	80.00	104.00	6.00
CONCRETE SLAB DEMO	SLAB AT GRADE	2.96 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	4.05	5.27	.30
CONCRETE WALL DEMO	CONCRETE WALLS	.15 CUYD			575.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	382.67	497.47	10.52
MASONRY WALL DEMO	MASONRY WALLS	325.00 SQFT			575.00	
MASONRY WALL DEMO	MASONRY WALLS	249.00 SQFT			575.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	16.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	85.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	

Source: 20G WELL HOUSE #3 Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	23.42	46.83	.84
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	281.00 SQFT			575.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	4.50	9.00	.09
WINDOW DEMO	WINDOWS	27.00 SQFT			575.00	
WOOD	WOOD	ABOVE GRADE	I	56.02	112.04	.84
MISC. MATERIAL DEMO	WOOD FRAMING	56.02 CUFT			575.00	

Source: 20H PROCESS WATER STORAGE TANK Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	46.87	93.74	2.07
PIPING DEMO	OVER 4" DIAMETER	111.89 LNFT			582.75	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	5200.00	6760.00	390.00
CONCRETE EQUIPMENT FNDN DEMO	TANK FLOOR ESTIMATE	192.59 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	3915.00	5089.50	293.63
CONCRETE SLAB DEMO	CONCRETE SLABS	145.00 CUYD			582.75	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	4185.00	5440.50	313.88
CONCRETE WALL DEMO	CONCRETE WALLS	155.00 CUYD			582.75	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	5.02	20.08	.01
PIPING DEMO	INSULATION	60.24 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	176.80	212.16	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1104.98 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	928.18	1113.82	1.40
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1104.98 CUFT			.00	

000227

Source: 22A GAS METER BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.63	27.27	.40
ROOF FRAMING DEMO	W10 X 25 MEMBERS	.40 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	7.00	14.00	.14
EXT DOOR DEMO	EXT DOORS (MAN & OH)	42.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.79	1.57	.13
ELECTRICAL DEMO	2" DIAMETER & LESS	120.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			580.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14.40	50.40	.45
EQUIPMENT DEMO	PROCESS EQUIPMENT	16.00 CUFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	11.31	22.62	.50
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			580.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.60	5.60	.05
EQUIPMENT DEMO	PROCESS EQUIPMENT	16.00 CUFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	1.26	2.51	.06
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	31.42	40.85	2.36
CONCRETE SUMP DEMO	PIT SLAB	.42 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	.75 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	8.00	10.40	.60
CONCRETE EQUIPMENT FNDN DEMO	GAS METER BASES	.30 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	164.70	214.11	12.35
CONCRETE SLAB DEMO	PRECAST SLABS	6.10 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	309.60	402.48	23.22
CONCRETE SLAB DEMO	SLAB AT GRADE	11.47 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	414.67	539.07	11.40
MASONRY WALL DEMO	MASONRY WALLS	622.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.31	5.24	.00
PIPING DEMO	INSULATION	15.71 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	4.40	8.80	.07
MISC. MATERIAL DEMO	MISC. DEBRIS	4.40 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	

Source: 22A GAS METER BUILDING Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	27.67	55.33	1.00
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	332.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	6.00	12.00	.12
WINDOW DEMO	WINDOWS	36.00 SQFT			580.00	

000229

Source: 22B STORM SEWER LIFT STATION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.28	38.10	.56
MISC. STEEL DEMO	MISC ANGLE FRAMING	.10 TONS			579.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.41 TONS			579.00	
MISC. STEEL DEMO	STEEL GRATING	.03 TONS			579.00	
MISC. STEEL DEMO	W6 X 15 MEMBERS	.02 TONS			579.00	
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.24	2.49	.21
ELECTRICAL DEMO	2" DIAMETER & LESS	190.00 LNFT			579.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	80.10	280.35	.48
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	89.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	19.80	69.30	.20
EQUIPMENT DEMO	HVAC EQUIPMENT	22.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	117.00	409.50	.72
EQUIPMENT DEMO	PROCESS EQUIPMENT	130.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	2.83	5.65	.32
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	.57	1.13	.04
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.00 LNFT			579.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	22.62	45.24	1.00
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	8.90	31.15	.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	89.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	2.20	7.70	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	22.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	13.00	45.50	.08
EQUIPMENT DEMO	PROCESS EQUIPMENT	130.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.31	.63	.04
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			579.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.06	.13	.00
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.00 LNFT			579.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	2.51	5.03	.11
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			579.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	1.74	3.49	.48

Source: 22B STORM SEWER LIFT STATION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	350.00 SQFT			579.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	33	.66	.08
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	148.00 SQFT			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	174.00	226.20	13.05
CONCRETE SUMP DEMO	PIT SLAB	3.33 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	3.11 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	67.50	87.75	5.06
CONCRETE SLAB DEMO	SLAB AT GRADE	2.50 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	8.10	10.53	.61
CONCRETE WALL DEMO	CONCRETE WALLS	.30 CUYD			579.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	246.67	320.67	6.78
MASONRY WALL DEMO	MASONRY WALLS	370.00 SQFT			579.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	2.92	11.67	.01
HVAC DEMO	INSULATION	35.00 SQFT			579.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.06	16.23	.01
PIPING DEMO	INSULATION	48.69 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	2.67	5.33	.05
WINDOW DEMO	WINDOWS	16.00 SQFT			579.00	

Source: 22C TRUCK SCALE Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	21.88	365.31	5.36
STEEL SLAB DEMO	STEEL TOP	5.36 TONS			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.90	3.15	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.05
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	

Source: 22D SCALE HOUSE AND WEIGH SCALE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	3.15	52.62	.77
ROOF FRAMING DEMO	MISC STEEL	.30 TONS			579.00	
ROOF FRAMING DEMO	MISC. ANGLES	.20 TONS			579.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.27 TONS			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.29	.59	.03
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	5.00 LNFT			579.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.90	3.15	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	.90	3.15	.05
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.05
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.05	.10	.01
PIPING DEMO	2" DIAMETER & LESS	2.03 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.10	.35	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.01	.01	.00
PIPING DEMO	2" DIAMETER & LESS	2.03 LNFT			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	143.33	186.33	10.75
CONCRETE SUMP DEMO	PIT SLAB	.69 CUYD			.00	
CONCRETE SUMP DEMO	SIDE PIT	4.62 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1326.67	1724.67	99.50
CONCRETE EQUIPMENT FNDN DEMO	ENTRANCE TO SCALE	7.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EXIT TO SCALE	7.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	SCALE: SIDE WALL	33.58 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	440.06	572.07	33.00
CONCRETE SLAB DEMO	PADS	3.53 CUYD			.00	
CONCRETE SLAB DEMO	PADS	3.15 CUYD			.00	
CONCRETE SLAB DEMO	PADS	1.92 CUYD			.00	
CONCRETE SLAB DEMO	SLAB	7.70 CUYD			.00	

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Source: 22D SCALE HOUSE AND WEIGH SCALE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	11.67	14.00	.66
EXT TRANSITE DEMO	EXT TRANSITE PANELS	320.00 SQFT			579.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	4.01	4.81	.23
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	110.00 SQFT			579.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	.02	.09	.00
PIPING DEMO	INSULATION	.27 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	

Source: 22E UTILITY TRENCH TO PIT AREA Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	234.38	3914.06	57.42
STEEL SLAB DEMO	STEEL COVER (TRENCH TOP)	57.42 TONS			.00	
CONCRETE	CONCRETE	BELOW GRADE	B	42000.00	54600.00	3150.00
CONCRETE TRENCH DEMO	TRENCH BOTTOM SLAB BELOW GRADE	1333.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS BELOW GRADE	222.22 CUYD			.00	

Source: 23 METEOROLOGICAL TOWER Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	7.71	128.83	1.89
MISC. STEEL DEMO	MISC ANGLE FRAMING	.43 TONS			577.00	
MISC. STEEL DEMO	MISC STEEL	.83 TONS			577.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	.63 TONS			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	36.00	126.00	.22
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	36.00 CUFT			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	18.75	24.37	1.41
CONCRETE EQUIPMENT FNDN DEMO	TOWER FOUNDATION	.69 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	18.00	23.40	1.35
CONCRETE SLAB DEMO	SLAB AT GRADE	.67 CUYD			.00	

Source: 24A RAILROAD SCALE HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	3.33	6.67	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	20.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			595.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	579.98	753.97	43.50
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.93 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (BASE)	14.81 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (CENTER)	1.48 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (GIRDER)	1.25 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	385.21	500.77	28.89
CONCRETE SLAB DEMO	SLAB AT GRADE	12.41 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	1.59 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (TOP SLAB)	.27 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	3115.05	4049.56	233.63
CONCRETE WALL DEMO	EAST & WEST WALL	16.09 CUYD			.00	
CONCRETE WALL DEMO	NORTH WALL	54.76 CUYD			.00	
CONCRETE WALL DEMO	SOUTH WALL	32.86 CUYD			.00	
CONCRETE WALL DEMO	WALLS	11.66 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	360.00	468.00	9.90
MASONRY WALL DEMO	MASONRY WALLS	540.00 SQFT			595.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	3.04	3.64	.00
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	18.97 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	15.93	19.12	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	18.97 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	16.67	33.33	.60
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	200.00 SQFT			595.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	9.17	18.33	.18
WINDOW DEMO	WINDOWS	55.00 SQFT			595.00	
WOOD	WOOD	ABOVE GRADE	I	25.00	50.00	.38
MISC. MATERIAL DEMO	WOOD FRAMING	25.00 CUFT			595.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.33	205.85	3.02
ROOF FRAMING DEMO	METAL DECKING	1.02 TONS			584.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	2.00 TONS			584.00	
DOORS	DOORS	ABOVE GRADE	B	40.00	80.00	.80
EXT DOOR DEMO	EXT DOORS (MAN & OH)	240.00 SQFT			584.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.97	9.95	.84
ELECTRICAL DEMO	2" DIAMETER & LESS	760.00 LNFT			584.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	5.86	11.73	.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	99.53 LNFT			584.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			584.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	43.20	151.20	.41
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	48.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	7.20	25.20	.31
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.70	9.45	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	3.53	7.06	.40
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			584.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	8.00	16.01	.57
PIPING DEMO	2-1/2" TO 4" DIAMETER	84.93 LNFT			584.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	4.80	16.80	.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	48.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.80	2.80	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.30	1.05	.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.39	.78	.04
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			584.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.89	1.78	.06
PIPING DEMO	2-1/2" TO 4" DIAMETER	84.93 LNFT			584.00	
CONCRETE	CONCRETE	BELOW GRADE	B	560.00	728.00	42.00
CONCRETE STAIRWAY DEMO	STAIRWAYS	20.74 CUYD			.00	

Source: 24B RAILROAD ENGINE HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	312.00	405.60	23.40
CONCRETE FOOTING DEMO	FOOTINGS	10.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	.89 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1215.00	1579.50	91.13
CONCRETE SLAB DEMO	SLAB AT GRADE	45.00 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	396.00	514.80	29.70
CONCRETE WALL DEMO	WALLS	14.67 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1733.33	2253.33	47.67
MASONRY WALL DEMO	MASONRY WALLS	2600.00 SQFT			584.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	E	3.01	12.05	.01
PIPING DEMO	INSULATION	36.14 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	E	27.32	32.78	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	170.73 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	200.00	240.00	.45
INSULATION DEMO	INSULATION (RIGID)	1200.00 SQFT			584.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	143.41	172.09	.22
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	170.73 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	100.00	200.00	3.60
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1200.00 SQFT			584.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	26.67	53.33	.53
WINDOW DEMO	WINDOWS	160.00 SQFT			584.00	

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Source: 25A CHLORINATION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	10.50	21.00	.21
EXT DOOR DEMO	EXT DOORS (MAN & OH)	63.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.64	3.27	.28
ELECTRICAL DEMO	2" DIAMETER & LESS	250.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			595.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	4.50	9.00	.23
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	4.50 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	49.05	171.68	.29
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	54.50 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	.90	3.15	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	16.20	56.70	.32
EQUIPMENT DEMO	PROCESS EQUIPMENT	18.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.41	2.83	.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	15.00 LNFT			595.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	5.45	19.08	.03
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	54.50 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.80	6.30	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	18.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.16	.31	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	15.00 LNFT			595.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	B	16.20	21.06	1.22
CONCRETE BEAM DEMO	CONCRETE BEAMS	.60 CUYD			595.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	435.30	565.89	32.65
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (PUMP PAD)	.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	.83 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.35 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (W/FOOTINGS)	1.17 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (W/FOOTINGS)	12.59 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	B	133.38	173.39	10.00
CONCRETE SLAB DEMO	CONCRETE SLABS	4.94 CUYD			595.00	
CONCRETE	CONCRETE SLABS	AT GRADE	B	161.40	209.82	12.11
CONCRETE SLAB DEMO	SLAB AT GRADE	4.17 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (STOOP)	1.35 CUYD			.00	

Source: 25A CHLORINATION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	SLAB AT GRADE (STOOP)	.46 CUYD		.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	352.00	457.60	26.40
CONCRETE SLAB DEMO	FOUNDATION (WET WELL BOTTOM SLAB)	13.04 CUYD		.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	844.38	1097.69	63.33
CONCRETE WALL DEMO	WET WELL WALLS	2.21 CUYD		.00		
CONCRETE WALL DEMO	WET WELL WALLS	8.07 CUYD		.00		
CONCRETE WALL DEMO	WET WELL WALLS	5.00 CUYD		.00		
CONCRETE WALL DEMO	WET WELL WALLS	3.67 CUYD		.00		
CONCRETE WALL DEMO	WET WELL WALLS	10.67 CUYD		.00		
CONCRETE WALL DEMO	WET WELL WALLS	1.66 CUYD		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	312.00	405.60	8.58
MASONRY WALL DEMO	MASONRY WALLS	468.00 SQFT		595.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	.33	1.31	.00
PIPING DEMO	INSULATION	3.93 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT		.00		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	19.00	38.00	.29
MISC. MATERIAL DEMO	MISC. DEBRIS	19.00 CUFT		595.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT		.00		
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	22.25	44.50	.80
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	267.00 SQFT		595.00		
WINDOWS	WINDOWS	ABOVE GRADE	I	10.83	21.67	.22
WINDOW DEMO	WINDOWS	65.00 SQFT		595.00		

Source: 25B M.H.#175/EFFLUENT LINE/SAMPLING BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	3.15	6.30	.06
EXT DOOR DEMO	EXT DOORS (MAN & OH)	18.90 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.24	2.49	.21
ELECTRICAL DEMO	2" DIAMETER & LESS	190.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			595.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	9.00	18.00	.15
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	9.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	80.15	280.54	.48
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	89.06 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	4.50	15.75	.06
EQUIPMENT DEMO	HVAC EQUIPMENT	5.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	47.93	167.74	.51
EQUIPMENT DEMO	PROCESS EQUIPMENT	53.25 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1.06	2.12	.12
PIPING DEMO	2" DIAMETER & LESS	45.00 LNFT			595.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.79	3.58	.13
PIPING DEMO	2-1/2" TO 4" DIAMETER	19.00 LNFT			595.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	8.91	31.17	.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	89.06 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.50	1.75	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	5.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	5.33	18.64	.06
EQUIPMENT DEMO	PROCESS EQUIPMENT	53.25 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.12	.24	.01
PIPING DEMO	2" DIAMETER & LESS	45.00 LNFT			595.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.20	.40	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	19.00 LNFT			595.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.80	1.60	.20
METAL WALL PANEL DEMO	EXT. METAL PANELS	360.00 SQFT			595.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.36	.71	.09
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	160.00 SQFT			595.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	19.80	25.74	1.48
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION (EQUIP PUMP PADS)	.73 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	256.50	333.45	19.24

Source: 25B M.H.#175/EFFLUENT LINE/SAMPLING BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	FOUNDATION (FLOOR SLAB)	1.00 CUYD			.00	
CONCRETE SLAB DEMO	FOUNDATION (FLOOR SLAB)	.17 CUYD			.00	
CONCRETE SLAB DEMO	FOUNDATION (FLOOR SLAB)	.33 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	2.67 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (WALKS SLAB)	4.00 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (WALKS SLAB)	1.33 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	H	13.50	17.55	1.01
CONCRETE SLAB DEMO	FOUNDATION (WET WELL BOTTOM SLAB)	.50 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	H	223.05	289.96	16.73
CONCRETE WALL DEMO	WALL (METERING MANHOLE)	1.69 CUYD			.00	
CONCRETE WALL DEMO	WALLS (ELECTRICAL MANHOLE #175)	1.20 CUYD			.00	
CONCRETE WALL DEMO	WALLS (VALVE ACCESS MANHOLE)	.61 CUYD			.00	
CONCRETE WALL DEMO	WALLS (VALVE ACCESS MANHOLE)	1.22 CUYD			.00	
CONCRETE WALL DEMO	WET WELL WALLS	1.52 CUYD			.00	
CONCRETE WALL DEMO	WET WELL WALLS	2.02 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	.90	3.62	.00
PIPING DEMO	INSULATION	10.86 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	

000243

Source: 25C SEWAGE LIFT STATION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	3.96	66.12	.97
MISC. STEEL DEMO	STAIR FRAMING	.71 TONS			580.00	
ROOF FRAMING DEMO	METAL DECKING	.26 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	4.17	8.33	.08
EXT DOOR DEMO	EXT DOORS (MAN & OH)	25.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.52	1.05	.09
ELECTRICAL DEMO	2" DIAMETER & LESS	80.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	67.06	234.71	.40
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	74.51 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	9.90	34.65	.12
EQUIPMENT DEMO	HVAC EQUIPMENT	11.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	9.00	31.50	.33
EQUIPMENT DEMO	PROCESS EQUIPMENT	10.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	2.83	5.65	.20
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	7.45	26.08	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	74.51 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1.10	3.85	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	11.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.00	3.50	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	10.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.31	.63	.02
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.24	.49	.07
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	49.00 SQFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	2.00	4.00	.04
LOUVER DEMO	EXT LOUVERS	12.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2316.00	3010.80	173.70
CONCRETE GRADE BEAM DEMO	GRADE BEAM	40.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	17.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	22.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	146.61	190.59	11.00
CONCRETE SLAB DEMO	CONCRETE SLABS	5.43 CUYD			580.00	

Source: 25C SEWAGE LIFT STATION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	697.10	906.23	52.28
CONCRETE SLAB DEMO	SLAB AT GRADE	10.37 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (BOTTOM SLAB #1)	14.52 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (BOTTOM SLAB #2)	.47 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (INTERMIDIATE SLAB)	.17 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (STOOD SLAB)	.30 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	44.80	58.24	3.36
CONCRETE WALL DEMO	WALLS (STOOP WALL)	1.66 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	382.67	497.47	10.52
MASONRY WALL DEMO	MASONRY WALLS	574.00 SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	.41	1.63	.00
HVAC DEMO	INSULATION	4.90 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	.65	2.62	.00
PIPING DEMO	INSULATION	7.85 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	50.00	60.00	.11
INSULATION DEMO	INSULATION (RIGID)	300.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	25.00	50.00	.90
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	300.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	8.00	16.00	.16
WINDOW DEMO	WINDOWS	48.00 SQFT			580.00	

000245

Source: 25D U.V. DISINFECTION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.49	8.18	.12
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	.12 TONS			595.00	
DOORS	DOORS	ABOVE GRADE	B	4.00	8.00	.08
EXT DOOR DEMO	EXT DOORS (MAN & OH)	24.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.27	6.54	.55
ELECTRICAL DEMO	2" DIAMETER & LESS	500.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			595.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	4.50	9.00	.09
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	4.50 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	79.07	276.76	.47
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	87.86 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	16.20	56.70	.09
EQUIPMENT DEMO	PROCESS EQUIPMENT	18.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.85	1.70	.10
PIPING DEMO	2" DIAMETER & LESS	36.00 LNFT			595.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	19.60	39.21	.87
PIPING DEMO	OVER 4" DIAMETER	52.00 LNFT			595.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	8.79	30.75	.05
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	87.86 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.20	.70	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.80	6.30	.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	18.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.09	.19	.01
PIPING DEMO	2" DIAMETER & LESS	36.00 LNFT			595.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	2.18	4.36	.10
PIPING DEMO	OVER 4" DIAMETER	52.00 LNFT			595.00	
CONCRETE	CONCRETE	BELOW GRADE	E	5.62	7.31	.42
CONCRETE SUMP DEMO	SUMP PIT	.21 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	620.18	806.23	46.51
CONCRETE GRADE BEAM DEMO	GRADE BEAM	19.86 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWELL STEPS	3.11 CUYD			.00	

Source: 25D U.V. DISINFECTION BUILDING Component Category: 4

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	165.24	214.81	12.19
CONCRETE SLAB DEMO	CONCRETE SLABS	6.12 CUYD			595.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	460.87	599.14	34.57
CONCRETE SLAB DEMO	SLAB AT GRADE (BOTTOM FLOOR SLAB)	9.44 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (STAIRWELL FLOOR)	.59 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (TOP/ROOF SLAB)	7.03 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	169.56	220.43	12.72
CONCRETE WALL DEMO	CONCRETE WALLS	6.28 CUYD			595.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	99.60	129.48	7.47
CONCRETE WALL DEMO	WALLS (STAIRWELL WALL)	3.69 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.66	10.65	.01
PIPING DEMO	INSULATION	31.94 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	

000247

Source: 25E DIGESTER AND CONTROL BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	Cat	FS Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	30.16	503.73	7.39
COLUMN DEMO	W8 X 31 MEMBERS	1.24 TONS			598.00	
MISC. STEEL DEMO	STAIR FRAMING	.70 TONS			598.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.13 TONS			606.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.41 TONS			606.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.44 TONS			606.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.27 TONS			606.00	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	2.15 TONS			606.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.10 TONS			606.00	
FLOOR PLATING DEMO	STEEL GRATING	.09 TONS			606.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.06 TONS			606.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.12 TONS			615.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	1.08 TONS			615.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	.60 TONS			615.00	
DOORS	DOORS	ABOVE GRADE	B	17.83	35.67	.36
EXT DOOR DEMO	EXT DOORS (MAN & OH)	72.00 SQFT			598.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	35.00 SQFT			606.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.95	5.89	.50
ELECTRICAL DEMO	2" DIAMETER & LESS	330.00 LNFT			597.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	120.00 LNFT			607.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	30.00	60.00	.19
ELECTRICAL DEMO	ELECTRICAL FIXTURES	9.00 EACH			597.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			607.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	3.99	7.98	.20
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.99 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	36.68	128.36	.22
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	40.75 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	163.80	573.30	2.09
EQUIPMENT DEMO	HVAC EQUIPMENT	182.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	57.60	201.60	1.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	64.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.16	14.33	.81
PIPING DEMO	2" DIAMETER & LESS	304.00 LNFT			597.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	36.29	72.57	2.60
PIPING DEMO	2-1/2" TO 4" DIAMETER	385.00 LNFT			597.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	35.44	70.87	1.57
PIPING DEMO	OVER 4" DIAMETER	94.00 LNFT			597.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	4.08	14.26	.02
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	40.75 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	18.20	63.70	.23

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT DEMO	HVAC EQUIPMENT	182.00 CUFT		.00		
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	6.40	22.40	.11
EQUIPMENT DEMO	PROCESS EQUIPMENT	64.00 CUFT		.00		
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.80	1.59	.09
PIPING DEMO	2" DIAMETER & LESS	304.00 LNFT		597.00		
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	4.03	8.06	.29
PIPING DEMO	2-1/2" TO 4" DIAMETER	385.00 LNFT		597.00		
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	3.94	7.87	.17
PIPING DEMO	OVER 4" DIAMETER	94.00 LNFT		597.00		
DUCTWORK	DUCTWORK	ABOVE GRADE	D	1.13	2.26	.31
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	227.00 SQFT		597.00		
LOUVERS	LOUVERS	ABOVE GRADE	D	1.17	2.33	.02
LOUVER DEMO	EXT LOUVERS	7.00 SQFT		597.00		
CONCRETE	CONCRETE	BELOW GRADE	E	93.00	120.90	6.98
CONCRETE SUMP DEMO	SUMP WALLS	.50 CUYD		.00		
CONCRETE TRENCH DEMO	WALL (FLOOR TRENCH #1)	.17 CUYD		.00		
CONCRETE TRENCH DEMO	WALL (FLOOR TRENCH #1)	1.67 CUYD		.00		
CONCRETE TRENCH DEMO	WALL (FLOOR TRENCH #2)	1.11 CUYD		.00		
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	58.32	75.82	4.37
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	2.16 CUYD		598.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	995.61	1294.30	74.67
CONCRETE EQUIPMENT FNDN DEMO	FUEL TANK PAD	.47 CUYD		.00		
CONCRETE EQUIPMENT FNDN DEMO	MISC PADS	.67 CUYD		.00		
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	5.44 CUYD		.00		
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	7.78 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.33 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 40' ID	3.61 CUYD		.00		
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	.89 CUYD		.00		
CONCRETE PEDESTAL DEMO	ISOL PIPE SUPP PEDESTAL	3.87 CUYD		.00		
CONCRETE PEDESTAL DEMO	ISOL PIPE SUPP PEDESTAL	3.11 CUYD		.00		
CONCRETE PEDESTAL DEMO	ISOL PIPE SUPP PEDESTAL	3.70 CUYD		.00		
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	364.50	473.85	27.34
CONCRETE SLAB DEMO	CONCRETE SLABS	5.20 CUYD		606.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	8.30 CUYD		616.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	1824.50	2371.85	136.84
CONCRETE SLAB DEMO	SLAB AT GRADE	6.11 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE	59.26 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE (STOOP SLAB)	.44 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE (TRENCH FLOOR)	.93 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE (TRENCH FLOOR)	.83 CUYD		.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	33.25	43.23	2.49

000269

Source: 25E DIGESTER AND CONTROL BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	CONC. ACCESS RAMP	1.23 CUYD		.00		
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	1431.00	1860.30	107.33
CONCRETE WALL DEMO	CONCRETE WALLS	53.00 CUYD		598.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	2891.00	3758.30	216.82
CONCRETE WALL DEMO	CONC PIPE SUPPORT LUGS (PART OF THE WALL)	.67 CUYD		.00		
CONCRETE WALL DEMO	WALL (CONCRETE WALL MASONARY TANK)	106.41 CUYD		.00		
CONCRETE	MASONRY	BELOW GRADE	E	1473.33	1915.33	40.52
MASONRY DEMO	CONCRETE BLOCK FACE	2210.00 SQFT		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1974.00	2566.20	54.28
MASONRY WALL DEMO	MASONRY WALLS	1083.00 SQFT		598.00		
MASONRY WALL DEMO	MASONRY WALLS	1878.00 SQFT		598.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	1.89	7.57	.00
HVAC DEMO	INSULATION	22.70 SQFT		597.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	15.82	63.27	.04
PIPING DEMO	INSULATION	189.80 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	21.25	25.50	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT		.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	85.17	102.20	.19
INSULATION DEMO	INSULATION (RIGID)	511.00 SQFT		616.00		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1.00	2.00	.02
MISC. MATERIAL DEMO	MISC. DEBRIS	1.00 CUFT		606.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	111.54	133.85	.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT		.00		
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	42.58	85.17	1.53
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	511.00 SQFT		616.00		
WINDOWS	WINDOWS	ABOVE GRADE	I	20.83	41.67	.42
WINDOW DEMO	WINDOWS	42.00 SQFT		598.00		
WINDOW DEMO	WINDOWS	83.00 SQFT		606.00		

Source: 25F SLUDGE DRYING BEDS Component Category: 11

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.39	23.18	.34
MISC. STEEL DEMO	STEEL GRATING	.34 TONS			598.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	16.00	267.20	3.92
SPLASH PLATE DEMO	SPLASH PLATES	3.92 TONS			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	16.76	33.51	.74
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			598.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	484.00	629.20	36.30
CONCRETE FOOTING DEMO	FOOTINGS	16.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.48 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	5520.00	7176.00	414.00
CONCRETE SLAB DEMO	SLAB AT GRADE	204.44 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	243.00	315.90	18.23
CONCRETE WALL DEMO	CONCRETE WALLS	9.00 CUYD			595.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.74	6.98	.00
PIPING DEMO	INSULATION	20.94 SQFT			.00	

000251

Source: 25G PRIMARY SETTLING BASINS Component Category: 11

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	4.12	68.84	1.01
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	.39 TONS			605.00	
MISC. STEEL DEMO	STEEL GRATING	.62 TONS			605.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.46	.92	.08
ELECTRICAL DEMO	2" DIAMETER & LESS	70.00 LNFT			605.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			605.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.02
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	34.00	119.00	.28
EQUIPMENT DEMO	PROCESS EQUIPMENT	34.00 CUFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	257.72	335.04	19.33
CONCRETE SUMP DEMO	SLAB	7.00 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT SLAB	.30 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.25 CUYD			.00	
CONCRETE SUMP DEMO	WALLS	.52 CUYD			.00	
CONCRETE SUMP DEMO	WALLS	1.48 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2034.64	2645.03	152.60
CONCRETE EQUIPMENT FNDN DEMO	TANK BOTTOM	62.22 CUYD			.00	
CONCRETE FOOTING DEMO	DEADMAN FOOTINGS	.44 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	.30 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	.25 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	11.11 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.44 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	60.00	78.00	4.50
CONCRETE SLAB DEMO	SLAB AT GRADE BOTTOM DECK	1.30 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE TOP DECK	.93 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	4524.00	5881.20	339.30
CONCRETE WALL DEMO	EXT. TANK WALL #1	80.89 CUYD			.00	
CONCRETE WALL DEMO	EXT. TANK WALL #2	57.59 CUYD			.00	
CONCRETE WALL DEMO	FLOORSTAND PIT WALLS	3.47 CUYD			.00	
CONCRETE WALL DEMO	FLOORSTAND PIT WALLS	3.47 CUYD			.00	
CONCRETE WALL DEMO	INT. TANK WALL #3	22.15 CUYD			.00	

Source: 25H TRICKLING FILTERS Component Category: 5

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT) / Takeoff Quantity	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.24	4.09	.06
MISC. STEEL DEMO	STEEL GRATING			.06 TONS	600.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.92	1.83	.15
ELECTRICAL DEMO	2" DIAMETER & LESS			140.00 LNFT	600.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES			5.00 EACH	600.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	6.00	21.00	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT			6.00 CUFT	.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	12.57	25.13	.90
PIPING DEMO	2-1/2" TO 4" DIAMETER			120.00 LNFT	600.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	20.94	41.89	.93
PIPING DEMO	OVER 4" DIAMETER			50.00 LNFT	600.00	
CONCRETE	CONCRETE	BELOW GRADE	E	607.50	789.75	45.56
CONCRETE DEMO	MISCELLANEOUS CONCRETE			22.50 CUYD	.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	628.40	816.92	47.13
CONCRETE SLAB DEMO	SLAB AT GRADE (2 CIRCULAR SLABS)			23.27 CUYD	.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	21.60	28.08	1.62
CONCRETE WALL DEMO	CONCRETE WALLS			.80 CUYD	600.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	1610.00	2093.00	120.75
CONCRETE WALL DEMO	2 CIRCULAR WALLS			31.00 CUYD	.00	
CONCRETE WALL DEMO	CIRCULAR WALL SUPPORTS			28.63 CUYD	.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.80	19.20	.01
PIPING DEMO	INSULATION			57.60 SQFT	.00	

Source: 25J 10-PLEX SEWAGE LIFT STATION Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.05	.91	.01
MISC. STEEL DEMO	MISC ANGLE FRAMING	.01 TONS			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.59	1.18	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	5.10	17.85	.03
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	5.10 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	72.00	252.00	.30
EQUIPMENT DEMO	PROCESS EQUIPMENT	72.00 CUFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	22.22	28.89	1.67
CONCRETE CURBING DEMO	CURBING	.82 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	5.00	6.50	.37
CONCRETE EQUIPMENT FNDN DEMO	PUMP FOUNDATION	.04 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FOUNDATION	.15 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	218.67	284.27	16.40
CONCRETE SLAB DEMO	SLAB AT GRADE	.40 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.30 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	7.41 CUYD			.00	

Source: 26A PUMP HOUSE-HP FIRE PROTECTION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	168.16	2808.33	41.20
MISC. STEEL DEMO	C-CHANNEL FRAMING	3.30 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.70 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.40 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (PLATES ETC)	36.80 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	33.33	66.67	.67
EXT DOOR DEMO	EXT DOORS (MAN & OH)	63.00 SQFT			580.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	137.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.50	11.00	.92
ELECTRICAL DEMO	2" DIAMETER & LESS	840.00 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	.49	.98	.04
ELECTRICAL DEMO	OVER 4" DIAMETER	3.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	24.00	48.00	.15
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	2.25	4.50	.11
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.25 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	134.86	472.00	.81
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	149.84 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	7.20	25.20	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	200.25	700.88	12.66
EQUIPMENT DEMO	PROCESS EQUIPMENT	222.50 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.71	9.42	.53
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	21.68	43.35	1.55
PIPING DEMO	2-1/2" TO 4" DIAMETER	230.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	113.10	226.19	5.00
PIPING DEMO	OVER 4" DIAMETER	300.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	14.98	52.44	.09
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	149.84 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.80	2.80	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	22.25	77.88	1.41
EQUIPMENT DEMO	PROCESS EQUIPMENT	222.50 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.52	1.05	.06
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			580.00	

000255

Source: 26A PUMP HOUSE-HP FIRE PROTECTION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	2.41	4.82	.17
PIPING DEMO	2-1/2" TO 4" DIAMETER	230.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	12.57	25.13	.56
PIPING DEMO	OVER 4" DIAMETER	300.00 LNFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	4.33	8.67	.09
LOUVER DEMO	EXT LOUVERS	26.00 SQFT			580.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	97.20	126.36	7.29
CONCRETE BEAM DEMO	CONCRETE BEAMS	3.60 CUYD			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	419.66	545.56	31.47
CONCRETE EQUIPMENT FNDN DEMO	FIRE PUMP FOUNDATION 1	.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FIRE PUMP FOUNDATIONS (#2 & #3)	1.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FUEL TANK FOUNDATIONS	1.48 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	JOCKEY PUMP FOUNDATION	.22 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	11.51 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	2079.00	2702.70	155.93
CONCRETE SLAB DEMO	CONCRETE SLABS	41.00 CUYD			580.00	
CONCRETE SLAB DEMO	PRECAST SLABS	36.00 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1022.36	1329.07	76.68
CONCRETE SLAB DEMO	SLAB AT GRADE	4.94 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	32.93 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	3636.67	4727.67	100.01
MASONRY WALL DEMO	MASONRY WALLS	3774.00 SQFT			580.00	
MASONRY WALL DEMO	MASONRY WALLS	1681.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	20.29	81.16	.05
PIPING DEMO	INSULATION	243.47 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	241.00	289.20	.54
INSULATION DEMO	INSULATION (RIGID)	1446.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	120.50	241.00	4.34
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1446.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	39.17	78.33	.78
WINDOW DEMO	WINDOWS	107.00 SQFT			580.00	
WINDOW DEMO	WINDOWS	128.00 SQFT			580.00	

Source: 26B ELEVATED WATER STORAGE TANK Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1763.27	29446.53	432.00
COLUMN DEMO	TUBE STEEL FRAMING	176.00 TONS			580.00	
COLUMN DEMO	TUBE STEEL FRAMING	55.00 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	43.00 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.00 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	5.00 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (WALKWAYS)	9.00 TONS			580.00	
MISC. STEEL DEMO	TANK PLATE STEEL	142.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.93	7.85	.66
ELECTRICAL DEMO	2" DIAMETER & LESS	600.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	30.00	105.00	.18
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	89.14	311.99	150.08
EQUIPMENT DEMO	PROCESS EQUIPMENT	89.14 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	33.09	66.18	2.37
PIPING DEMO	2-1/2" TO 4" DIAMETER	240.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	76.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	321.70	643.40	14.21
PIPING DEMO	OVER 4" DIAMETER	720.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	48.00 LNFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	433.35	563.36	32.50
CONCRETE SUMP DEMO	PIT FLOOR SLAB	7.41 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	3.70 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	4.94 CUYD			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	378.00	491.40	28.35
CONCRETE BEAM DEMO	CONCRETE BEAMS	14.00 CUYD			580.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	162.00	210.60	12.15
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	6.00 CUYD			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	8181.00	10635.30	613.58
CONCRETE PEDESTAL DEMO	PEDESTALS	303.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	200.07	260.09	15.01
CONCRETE SLAB DEMO	CONCRETE SLABS	7.41 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	40.40	161.62	.09
PIPING DEMO	INSULATION	484.85 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	25.80	30.96	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	161.24 CUFT			.00	

Source: 26B ELEVATED WATER STORAGE TANK Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	135.44	162.53	.20
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	161.24 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.14	19.09	.28
MISC. STEEL DEMO	STEEL GRATING	.21 TONS			578.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.07 TONS			578.00	
DOORS	DOORS	ABOVE GRADE	B	7.83	15.67	.16
EXT DOOR DEMO	EXT DOORS (MAN & OH)	47.00 SQFT			578.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.52	1.05	.09
ELECTRICAL DEMO	2" DIAMETER & LESS	80.00 LNFT			578.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			578.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	32.40	113.40	.19
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	36.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	2.83	5.65	.32
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			578.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.24	8.48	.30
PIPING DEMO	2-1/2" TO 4" DIAMETER	45.00 LNFT			578.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	7.54	15.08	.33
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			578.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	3.60	12.60	.02
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	36.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.40	1.40	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.31	.63	.04
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			578.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.47	.94	.03
PIPING DEMO	2-1/2" TO 4" DIAMETER	45.00 LNFT			578.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	.84	1.68	.04
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			578.00	
CONCRETE	CONCRETE	BELOW GRADE	E	62.85	81.71	4.71
CONCRETE SUMP DEMO	SUMP SLAB BELOW GARDE	.04 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS BELOW GARDE	.08 CUYD			.00	
CONCRETE SUMP DEMO	VALVE PIT SLAB BELOW GRADE	.30 CUYD			.00	
CONCRETE SUMP DEMO	VALVE PIT WALLS BELOW GRADE	.98 CUYD			.00	
CONCRETE SUMP DEMO	VALVE PIT WALLS BELOW GRADE	.93 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	93.33	121.33	7.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.46 CUYD			.00	

000259

Source: 26C MAIN ELECTRICAL STRAINER HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	91.38	118.79	6.85
CONCRETE SLAB DEMO	SLAB AT GRADE	3.38 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	266.67	346.67	7.33
MASONRY WALL DEMO	MASONRY WALLS	400.00 SQFT			578.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	4.99	5.99	.28
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	137.00 SQFT			578.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.16	12.65	.01
PIPING DEMO	INSULATION	37.96 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	

Source: 28A SECURITY BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	10.20	170.41	2.50
COLUMN DEMO	TUBE STEEL FRAMING	.26 TONS			577.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	.92 TONS			577.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	.89 TONS			577.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.43 TONS			577.00	
DOORS	DOORS	ABOVE GRADE	B	175.00	350.00	3.50
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1050.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	10.77	21.53	1.81
ELECTRICAL DEMO	2" DIAMETER & LESS	1645.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	37.70	75.40	4.10
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	640.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	24.54	49.09	2.04
ELECTRICAL DEMO	OVER 4" DIAMETER	150.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	214.00	428.00	1.34
ELECTRICAL DEMO	ELECTRICAL FIXTURES	107.00 EACH			577.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	7.50	15.00	.38
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	7.50 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	112.05	392.18	.67
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	112.05 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	105.00	367.50	3.50
EQUIPMENT DEMO	HVAC EQUIPMENT	105.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	201.57	705.50	1.60
EQUIPMENT DEMO	PROCESS EQUIPMENT	201.57 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	6.44	12.88	.73
PIPING DEMO	2" DIAMETER & LESS	110.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	136.00 LNFT			577.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	16.01	32.02	4.42
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1533.00 SQFT			577.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1680.00 SQFT			577.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	.33	.67	.01
LOUVER DEMO	EXT LOUVERS	2.00 SQFT			577.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1884.08	2449.31	141.31
CONCRETE CURBING DEMO	CURBING	10.52 CUYD			.00	
CONCRETE CURBING DEMO	CURBING	59.26 CUYD			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	888.30	1154.79	66.62
CONCRETE BEAM DEMO	CONCRETE BEAMS	32.90 CUYD			577.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	318.60	414.18	23.90

000261

Source: 28A SECURITY BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	11.80 CUYD			577.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	245.00	318.50	18.38
CONCRETE FOOTING DEMO	FOOTINGS	8.30 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.78 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	4190.40	5447.52	314.28
CONCRETE SLAB DEMO	CONCRETE SLABS	155.20 CUYD			577.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	4751.88	6177.44	356.39
CONCRETE SLAB DEMO	SLAB AT GRADE	112.53 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	63.46 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2780.67	3614.87	76.47
MASONRY WALL DEMO	MASONRY WALLS	440.00 SQFT			577.00	
MASONRY WALL DEMO	MASONRY WALLS	3731.00 SQFT			577.00	
TILE	FLOOR TILE	AT GRADE	G	25.90	31.07	1.24
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	1243.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	26.77	107.10	.06
HVAC DEMO	INSULATION	321.30 SQFT			577.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.68	10.73	.01
PIPING DEMO	INSULATION	32.20 SQFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	460.63	921.25	12.16
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	7370.00 SQFT			577.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1937.00	2324.40	4.36
INSULATION DEMO	INSULATION (RIGID)	2550.00 SQFT			577.00	
INSULATION DEMO	INSULATION (RIGID)	9072.00 SQFT			577.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	590.50	1181.00	21.26
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	2550.00 SQFT			577.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	4536.00 SQFT			577.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	698.33	1396.67	13.97
WINDOW DEMO	WINDOWS	2184.00 SQFT			577.00	
WINDOW DEMO	WINDOWS	2006.00 SQFT			577.00	
WOOD	WOOD	ABOVE GRADE	I	44.00	88.00	.66
MISC. MATERIAL DEMO	WOOD FRAMING	42.00 CUFT			577.00	
MISC. MATERIAL DEMO	WOOD FRAMING	2.00 CUFT			577.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	234.98	3924.16	57.57
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	2.66 TONS			577.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.35 TONS			577.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.31 TONS			577.00	
ROOF FRAMING DEMO	STEEL TRUSSES	35.83 TONS			577.00	
ROOF FRAMING DEMO	W10 X 33 MEMBERS	8.58 TONS			577.00	
ROOF FRAMING DEMO	W14 X 26 MEMBERS	1.76 TONS			577.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	2.04 TONS			577.00	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	5.04 TONS			577.00	
DOORS	DOORS	ABOVE GRADE	B	176.83	353.67	3.54
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1061.00 SQFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.32	8.64	.73
ELECTRICAL DEMO	2" DIAMETER & LESS	660.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	6.48	12.96	.70
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	110.00 LNFT			577.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	9.82	19.63	.82
ELECTRICAL DEMO	OVER 4" DIAMETER	60.00 LNFT			577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	168.00	336.00	1.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	84.00 EACH			577.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	16.88	33.76	.68
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	16.88 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	91.86	321.51	.55
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	91.86 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	580.00	2030.00	1.75
EQUIPMENT DEMO	HVAC EQUIPMENT	580.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	24.00	84.00	.13
EQUIPMENT DEMO	PROCESS EQUIPMENT	24.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	10.58	21.15	1.19
PIPING DEMO	2" DIAMETER & LESS	100.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	264.00 LNFT			577.00	
PIPING DEMO	2" DIAMETER & LESS	40.00 LNFT			577.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	8.38	16.76	.60
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			577.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	60.00 LNFT			577.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	30.35	60.70	8.37
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3535.00 SQFT			577.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1505.00 SQFT			577.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1050.00 SQFT			577.00	
CONCRETE	CONCRETE	BELOW GRADE	E	359.34	467.14	26.95

000263

Source: 28B HUMAN RESOURCES BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE CURBING DEMO	CURBING	10.88 CUYD			.00	
CONCRETE CURBING DEMO	CURBING RM. 123 & 148	2.43 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	630.00	819.00	47.25
CONCRETE FOOTING DEMO	FOOTINGS	21.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	961.20	1249.56	72.09
CONCRETE SLAB DEMO	CONCRETE SLABS	35.60 CUYD			577.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	5931.42	7710.84	444.86
CONCRETE SLAB DEMO	SLAB AT GRADE	219.68 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2236.67	2907.67	61.51
MASONRY WALL DEMO	MASONRY WALLS	3355.00 SQFT			577.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	553.50	1107.00	6.64
CEILING DEMO	CEILING DEMO	8856.00 SQFT			577.00	
TILE	FLOOR TILE	AT GRADE	G	275.19	330.22	13.21
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	6884.00 SQFT			.00	
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	6325.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	50.75	203.00	.11
HVAC DEMO	INSULATION	609.00 SQFT			577.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	6.15	24.61	.01
PIPING DEMO	INSULATION	73.83 SQFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	1329.63	2659.25	35.10
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	21274.00 SQFT			577.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1476.00	1771.20	3.32
INSULATION DEMO	INSULATION (RIGID)	8856.00 SQFT			577.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	63.00	126.00	.95
MISC. MATERIAL DEMO	MISC. DEBRIS	60.00 CUFT			577.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	3.00 CUFT			577.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	738.00	1476.00	26.57
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	8856.00 SQFT			577.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	120.00	240.00	2.40
WINDOW DEMO	WINDOWS	720.00 SQFT			577.00	

Source: 28C GUARD POST ON SOUTH END OF 'D' STREET Component Category: 1

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	6.37	106.33	1.56
MISC. STEEL DEMO	MISC ANGLE FRAMING	.50 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL	.30 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			580.00	
MISC. STEEL DEMO	W8 X 13 MEMBERS	.26 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.11	.22	.03
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	50.00 SQFT			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	20.17	26.23	1.51
CONCRETE SLAB DEMO	SLAB AT GRADE	.75 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	66.67	86.67	1.83
MASONRY WALL DEMO	MASONRY WALLS	100.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	4.17	8.33	.15
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	50.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.00	20.00	.20
WINDOW DEMO	WINDOWS	60.00 SQFT			580.00	

Source: 28D GUARD POST ON WEST END OF 2ND STREET Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	5.33	10.67	.11
EXT DOOR DEMO	EXT DOORS (MAN & OH)	32.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.20	.39	.03
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.36	.72	.04
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	6.09 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.90	3.15	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	24.00	31.20	1.80
CONCRETE SLAB DEMO	SLAB AT GRADE	.89 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	24.08	48.17	.87
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	289.00 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	20.00	40.00	.40
WINDOW DEMO	WINDOWS	120.00 SQFT			580.00	
WOOD	WOOD	ABOVE GRADE	I	50.00	100.00	.75
ROOF FRAMING DEMO	WOOD FRAMING	50.00 CUFT			580.00	

Source: 28E GUARD POST EAST OF T-81 Component Category: 1

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Takeoff Quantity	Weight (TONS) / Elevation (FT)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.51	25.22	.37
COLUMN DEMO	TUBE STEEL FRAMING			.17 TONS	577.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING			.20 TONS	577.00	
DOORS	DOORS	ABOVE GRADE	B	3.33	6.67	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)			20.00 SQFT	577.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.33	.65	.06
ELECTRICAL DEMO	2" DIAMETER & LESS			50.00 LNFT	577.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES			1.00 EACH	577.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.75	2.63	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT			.75 CUFT	.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.43	.86	.11
METAL WALL PANEL DEMO	EXT. METAL PANELS			192.00 SQFT	577.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	.43	.86	.11
METAL WALL PANEL DEMO	INT. METAL PANELS			192.00 SQFT	577.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.53	1.05	.13
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)			172.00 SQFT	577.00	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)			64.00 SQFT	577.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	150.00	195.00	11.25
CONCRETE SLAB DEMO	SLAB AT GRADE			5.56 CUYD	.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	42.67	51.20	.10
INSULATION DEMO	INSULATION (RIGID)			64.00 SQFT	577.00	
INSULATION DEMO	INSULATION (RIGID)			192.00 SQFT	577.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1.60	3.20	.02
MISC. MATERIAL DEMO	MISC. DEBRIS			1.60 CUFT	577.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	7.00	14.00	.14
WINDOW DEMO	WINDOWS			42.00 SQFT	577.00	

000367

Source: 28F SKEET RANGE BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	12.67	25.33	.25
EXT DOOR DEMO	EXT DOORS (MAN & OH)	76.00 SQFT			588.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.65	1.31	.11
ELECTRICAL DEMO	2" DIAMETER & LESS	100.00 LNFT			588.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			588.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	4.25	14.88	.03
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.25 CUFT			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	1.37	2.74	.14
METAL WALL PANEL DEMO	EXT. METAL PANELS	616.00 SQFT			588.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.74	1.47	.18
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	330.00 SQFT			588.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	150.00	195.00	11.25
CONCRETE SLAB DEMO	SLAB AT GRADE	5.56 CUYD			.00	

Source: 28G GUARD POST SOUTH OF BUILDING 51 Component Category: 1

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.82	13.63	.20
MISC. STEEL DEMO	C-CHANNEL FRAMING	.20 TONS			573.00	
DOORS	DOORS	ABOVE GRADE	B	3.00	6.00	.06
EXT DOOR DEMO	EXT DOORS (MAN & OH)	18.00 SQFT			573.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.13	.26	.02
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			573.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			573.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.46	.91	.11
METAL WALL PANEL DEMO	EXT. METAL PANELS	205.00 SQFT			573.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	.46	.91	.11
METAL WALL PANEL DEMO	INT. METAL PANELS	205.00 SQFT			573.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.29	.57	.07
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	64.00 SQFT			573.00	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	64.00 SQFT			573.00	
CONCRETE	CONCRETE SLABS	AT GRADE	B	150.00	195.00	11.25
CONCRETE SLAB DEMO	SLAB AT GRADE	5.56 CUYD			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	44.83	53.80	.10
INSULATION DEMO	INSULATION (RIGID)	205.00 SQFT			573.00	
INSULATION DEMO	INSULATION (RIGID)	64.00 SQFT			573.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	5.50	11.00	.11
WINDOW DEMO	WINDOWS	33.00 SQFT			573.00	

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Source: 2A ORE REFINERY PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	3717.93	62089.44	910.89
COLUMN DEMO	W12 X 36 MEMBERS	2.59 TONS			580.00	
COLUMN DEMO	W12 X 40 MEMBERS	18.96 TONS			580.00	
COLUMN DEMO	W12 X 53 MEMBERS	56.28 TONS			580.00	
COLUMN DEMO	W12 X 58 MEMBERS	32.51 TONS			580.00	
COLUMN DEMO	W14 X 95 MEMBERS	7.50 TONS			580.00	
COLUMN DEMO	WT6 X 18 MEMBERS	.55 TONS			580.00	
MISC STEEL	C-CHANNEL FRAMING	1.36 TONS			580.00	
MISC STEEL	C-CHANNEL FRAMING	.41 TONS			580.00	
MISC STEEL	LIGHT FLOOR PLATE	.01 TONS			580.00	
MISC STEEL	MISC ANGLE FRAMING	.14 TONS			580.00	
MISC STEEL	MISC ANGLE FRAMING	.80 TONS			580.00	
MISC STEEL	MISC ANGLE FRAMING	.06 TONS			580.00	
MISC STEEL	STEEL GRATING	1.10 TONS			580.00	
MISC STEEL	W10 X 21 MEMBERS	8.57 TONS			580.00	
MISC STEEL	W10 X 33 MEMBERS	5.86 TONS			580.00	
MISC STEEL	W12 X 27 MEMBERS	.54 TONS			580.00	
MISC STEEL	W8 X 24 MEMBERS	.07 TONS			580.00	
MISC STEEL	WT6 X 6 MEMBERS	.12 TONS			580.00	
ROOF FRAMING	C-CHANNEL FRAMING	1.88 TONS			580.00	
ROOF FRAMING	MISC. ANGLES	.19 TONS			580.00	
ROOF FRAMING	THREADED RODS	.04 TONS			580.00	
ROOF FRAMING	W8 X 28 MEMBERS	.78 TONS			580.00	
WALL FRAMING	C-CHANNEL FRAMING	1.05 TONS			580.00	
WALL FRAMING	C-CHANNEL FRAMING	60.24 TONS			580.00	
WALL FRAMING	MISC ANGLE FRAMING	.44 TONS			580.00	
WALL FRAMING	MISC ANGLE FRAMING	.18 TONS			580.00	
WALL FRAMING	THREADED RODS	.01 TONS			580.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.75 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	5.29 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.22 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.21 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.15 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.11 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.18 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.21 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.26 TONS			588.58	
FLOOR FRAMING	MEDIUM FLOOR PLATE	14.63 TONS			588.58	
FLOOR FRAMING	MEDIUM FLOOR PLATE	9.76 TONS			588.58	
FLOOR FRAMING	MISC ANGLE FRAMING	.40 TONS			588.58	
FLOOR FRAMING	MISC ANGLE FRAMING	.12 TONS			588.58	
FLOOR FRAMING	MISC ANGLE FRAMING	.12 TONS			588.58	
FLOOR FRAMING	MISC STEEL	.04 TONS			588.58	
FLOOR FRAMING	W12 X 27 MEMBERS	.22 TONS			588.58	
FLOOR FRAMING	W14 X 30 MEMBERS	2.78 TONS			588.58	
FLOOR FRAMING	W14 X 30 MEMBERS	10.20 TONS			588.58	
FLOOR FRAMING	W14 X 30 MEMBERS	.26 TONS			588.58	
FLOOR FRAMING	W14 X 34 MEMBERS	1.02 TONS			588.58	
FLOOR FRAMING	W16 X 40 MEMBERS	2.40 TONS			588.58	
FLOOR FRAMING	W16 X 45 MEMBERS	1.80 TONS			588.58	
FLOOR FRAMING	W8 X 17 MEMBERS	.20 TONS			588.58	
FLOOR FRAMING	WT4 X 10 MEMBERS	.30 TONS			588.58	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING	WT4 X 12 MEMBERS	.03 TONS			588.58	
ROOF FRAMING	MEDIUM FLOOR PLATE	3.66 TONS			588.58	
FLOOR FRAMING	C-CHANNEL FRAMING	.24 TONS			590.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.32 TONS			590.00	
FLOOR FRAMING	MEDIUM FLOOR PLATE	17.07 TONS			590.00	
FLOOR FRAMING	W10 X 19 MEMBERS	.44 TONS			590.00	
FLOOR FRAMING	W10 X 25 MEMBERS	.66 TONS			590.00	
FLOOR FRAMING	W12 X 31 MEMBERS	.95 TONS			590.00	
FLOOR FRAMING	W14 X 30 MEMBERS	7.80 TONS			590.00	
FLOOR FRAMING	W16 X 36 MEMBERS	4.32 TONS			590.00	
FLOOR FRAMING	W16 X 45 MEMBERS	.45 TONS			590.00	
FLOOR FRAMING	W16 X 58 MEMBERS	.81 TONS			590.00	
FLOOR FRAMING	W18 X 50 MEMBERS	5.00 TONS			590.00	
FLOOR FRAMING	W21 X 62 MEMBERS	3.72 TONS			590.00	
FLOOR FRAMING	WT6 X 11 MEMBERS	.81 TONS			590.00	
FLOOR FRAMING	WT6 X 18 MEMBERS	1.59 TONS			590.00	
FLOOR FRAMING	WT8 X 25 MEMBERS	.20 TONS			590.00	
FLOOR FRAMING	C-CHANNEL FRAMING	3.77 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.16 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.54 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.24 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	2.03 TONS			596.00	
FLOOR FRAMING	MEDIUM FLOOR PLATE	17.07 TONS			596.00	
FLOOR FRAMING	W14 X 30 MEMBERS	17.40 TONS			596.00	
FLOOR FRAMING	W16 X 36 MEMBERS	1.80 TONS			596.00	
MISC STEEL	C-CHANNEL FRAMING	.44 TONS			596.00	
MISC STEEL	C-CHANNEL FRAMING	.60 TONS			596.00	
MISC STEEL	MISC ANGLE FRAMING	.05 TONS			596.00	
MISC STEEL	W14 X 30 MEMBERS	1.43 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.62 TONS			600.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.62 TONS			600.00	
FLOOR FRAMING	C-CHANNEL FRAMING	1.14 TONS			600.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.34 TONS			600.00	
FLOOR FRAMING	C-CHANNEL FRAMING	1.14 TONS			600.00	
FLOOR FRAMING	MEDIUM FLOOR PLATE	17.07 TONS			600.00	
FLOOR FRAMING	STEEL GRATING	6.18 TONS			600.00	
FLOOR FRAMING	W10 X 19 MEMBERS	1.58 TONS			600.00	
FLOOR FRAMING	W10 X 19 MEMBERS	1.58 TONS			600.00	
FLOOR FRAMING	W12 X 27 MEMBERS	.16 TONS			600.00	
FLOOR FRAMING	W14 X 30 MEMBERS	12.80 TONS			600.00	
FLOOR FRAMING	W16 X 36 MEMBERS	1.95 TONS			600.00	
FLOOR FRAMING	W16 X 58 MEMBERS	.58 TONS			600.00	
FLOOR FRAMING	W18 X 50 MEMBERS	2.00 TONS			600.00	
FLOOR FRAMING	W18 X 64 MEMBERS	2.56 TONS			600.00	
FLOOR FRAMING	W18 X 64 MEMBERS	2.56 TONS			600.00	
FLOOR FRAMING	W8 X 17 MEMBERS	.41 TONS			600.00	
FLOOR FRAMING	W8 X 17 MEMBERS	.41 TONS			600.00	
FLOOR FRAMING	WT4 X 5 MEMBERS	.34 TONS			600.00	
FLOOR FRAMING	WT6 X 18 MEMBERS	2.35 TONS			600.00	
FLOOR FRAMING	WT6 X 18 MEMBERS	2.35 TONS			600.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.09 TONS			602.50	
FLOOR FRAMING	C-CHANNEL FRAMING	1.86 TONS			602.50	
FLOOR FRAMING	C10 X 20 MEMBERS	1.70 TONS			602.50	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
FLOOR FRAMING	MEDIUM FLOOR PLATE	10.37 TONS				602.50
FLOOR FRAMING	W14 X 30 MEMBERS	8.10 TONS				602.50
FLOOR FRAMING	W14 X 30 MEMBERS	7.37 TONS				602.50
FLOOR FRAMING	W14 X 30 MEMBERS	1.23 TONS				602.50
FLOOR FRAMING	W18 X 55 MEMBERS	1.82 TONS				602.50
FLOOR FRAMING	W24 X 100 MEMBERS	6.00 TONS				602.50
FLOOR FRAMING	W24 X 68 MEMBERS	3.04 TONS				602.50
FLOOR FRAMING	W24 X 84 MEMBERS	1.68 TONS				602.50
FLOOR FRAMING	WT4 X 10 MEMBERS	.33 TONS				602.50
FLOOR FRAMING	WT6 X 18 MEMBERS	.07 TONS				602.50
FLOOR FRAMING	WT8 X 18 MEMBERS	.08 TONS				602.50
FLOOR FRAMING	C-CHANNEL FRAMING	.60 TONS				606.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	9.76 TONS				606.00
FLOOR FRAMING	MISC ANGLE FRAMING	.03 TONS				606.00
FLOOR FRAMING	W12 X 27 MEMBERS	2.11 TONS				606.00
FLOOR FRAMING	W14 X 30 MEMBERS	1.92 TONS				606.00
FLOOR FRAMING	W14 X 34 MEMBERS	.56 TONS				606.00
FLOOR FRAMING	W16 X 36 MEMBERS	.59 TONS				606.00
FLOOR FRAMING	W16 X 40 MEMBERS	.66 TONS				606.00
FLOOR FRAMING	W18 X 50 MEMBERS	2.00 TONS				606.00
FLOOR FRAMING	W18 X 55 MEMBERS	1.10 TONS				606.00
FLOOR FRAMING	W21 X 62 MEMBERS	1.24 TONS				606.00
FLOOR FRAMING	WT8 X 13 MEMBERS	.23 TONS				606.00
FLOOR FRAMING	C-CHANNEL FRAMING	1.00 TONS				607.00
FLOOR FRAMING	C-CHANNEL FRAMING	.46 TONS				607.00
FLOOR FRAMING	C-CHANNEL FRAMING	1.96 TONS				607.00
FLOOR FRAMING	C-CHANNEL FRAMING	.66 TONS				607.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	18.29 TONS				607.00
FLOOR FRAMING	W14 X 30 MEMBERS	9.60 TONS				607.00
FLOOR FRAMING	W14 X 87 MEMBERS	3.48 TONS				607.00
FLOOR FRAMING	W16 X 36 MEMBERS	2.16 TONS				607.00
FLOOR FRAMING	W18 X 50 MEMBERS	1.00 TONS				607.00
FLOOR FRAMING	W18 X 50 MEMBERS	1.00 TONS				607.00
FLOOR FRAMING	W21 X 62 MEMBERS	6.20 TONS				607.00
FLOOR FRAMING	W24 X 76 MEMBERS	1.52 TONS				607.00
FLOOR FRAMING	W27 X 94 MEMBERS	1.88 TONS				607.00
FLOOR FRAMING	WT4 X 14 MEMBERS	1.24 TONS				607.00
FLOOR FRAMING	C-CHANNEL FRAMING	.32 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	1.24 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	.30 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	.89 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	4.58 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	.40 TONS				610.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	18.90 TONS				610.00
FLOOR FRAMING	W14 X 30 MEMBERS	8.04 TONS				610.00
FLOOR FRAMING	W18 X 50 MEMBERS	.50 TONS				610.00
FLOOR FRAMING	C-CHANNEL FRAMING	.26 TONS				615.00
FLOOR FRAMING	MISC ANGLE FRAMING	.03 TONS				615.00
FLOOR FRAMING	W10 X 21 MEMBERS	.44 TONS				615.00
FLOOR FRAMING	W14 X 30 MEMBERS	3.00 TONS				615.00
FLOOR FRAMING	W16 X 40 MEMBERS	.40 TONS				615.00
FLOOR FRAMING	W18 X 50 MEMBERS	.50 TONS				615.00
FLOOR FRAMING	W21 X 73 MEMBERS	.78 TONS				615.00

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING	C-CHANNEL FRAMING	1.78 TONS			616.75	
FLOOR FRAMING	C-CHANNEL FRAMING	2.40 TONS			616.75	
FLOOR FRAMING	MEDIUM FLOOR PLATE	9.08 TONS			616.75	
FLOOR FRAMING	MEDIUM FLOOR PLATE	9.08 TONS			616.75	
FLOOR FRAMING	MISC ANGLE FRAMING	.10 TONS			616.75	
FLOOR FRAMING	W10 X 21 MEMBERS	1.89 TONS			616.75	
FLOOR FRAMING	W10 X 21 MEMBERS	.15 TONS			616.75	
FLOOR FRAMING	W10 X 29 MEMBERS	1.95 TONS			616.75	
FLOOR FRAMING	W12 X 27 MEMBERS	.27 TONS			616.75	
FLOOR FRAMING	W12 X 27 MEMBERS	2.50 TONS			616.75	
FLOOR FRAMING	W14 X 30 MEMBERS	6.00 TONS			616.75	
FLOOR FRAMING	W14 X 34 MEMBERS	.27 TONS			616.75	
FLOOR FRAMING	W16 X 40 MEMBERS	1.20 TONS			616.75	
FLOOR FRAMING	W18 X 50 MEMBERS	9.00 TONS			616.75	
FLOOR FRAMING	W18 X 55 MEMBERS	1.20 TONS			616.75	
FLOOR FRAMING	W24 X 100 MEMBERS	4.00 TONS			616.75	
FLOOR FRAMING	W24 X 76 MEMBERS	3.04 TONS			616.75	
FLOOR FRAMING	W24 X 84 MEMBERS	7.56 TONS			616.75	
FLOOR FRAMING	C-CHANNEL FRAMING	1.43 TONS			618.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.40 TONS			618.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.30 TONS			618.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.94 TONS			618.50	
FLOOR FRAMING	MEDIUM FLOOR PLATE	9.76 TONS			618.50	
FLOOR FRAMING	MISC ANGLE FRAMING	.05 TONS			618.50	
FLOOR FRAMING	MISC. ANGLES	.06 TONS			618.50	
FLOOR FRAMING	W10 X 19 MEMBERS	.83 TONS			618.50	
FLOOR FRAMING	W10 X 21 MEMBERS	1.18 TONS			618.50	
FLOOR FRAMING	W10 X 21 MEMBERS	.86 TONS			618.50	
FLOOR FRAMING	W14 X 30 MEMBERS	14.15 TONS			618.50	
FLOOR FRAMING	W14 X 30 MEMBERS	14.25 TONS			618.50	
FLOOR FRAMING	W14 X 30 MEMBERS	14.40 TONS			618.50	
FLOOR FRAMING	W16 X 36 MEMBERS	.72 TONS			618.50	
FLOOR FRAMING	W16 X 36 MEMBERS	.72 TONS			618.50	
FLOOR FRAMING	W16 X 58 MEMBERS	.58 TONS			618.50	
FLOOR FRAMING	W16 X 58 MEMBERS	.58 TONS			618.50	
FLOOR FRAMING	W18 X 50 MEMBERS	.50 TONS			618.50	
FLOOR FRAMING	W8 X 17 MEMBERS	.12 TONS			618.50	
FLOOR FRAMING	WT6 X 18 MEMBERS	3.13 TONS			618.50	
FLOOR FRAMING	WT6 X 6 MEMBERS	1.28 TONS			618.50	
MISC STEEL	C-CHANNEL FRAMING	.62 TONS			618.50	
MISC STEEL	MISC ANGLE FRAMING	.04 TONS			618.50	
MISC STEEL	MISC ANGLE FRAMING	.01 TONS			618.50	
MISC STEEL	W14 X 30 MEMBERS	.92 TONS			618.50	
FLOOR FRAMING	C-CHANNEL FRAMING	.98 TONS			620.00	
FLOOR FRAMING	C-CHANNEL FRAMING	1.24 TONS			620.00	
FLOOR FRAMING	MEDIUM FLOOR PLATE	21.96 TONS			620.00	
FLOOR FRAMING	W10 X 19 MEMBERS	3.12 TONS			620.00	
FLOOR FRAMING	W10 X 21 MEMBERS	1.26 TONS			620.00	
FLOOR FRAMING	W10 X 25 MEMBERS	.58 TONS			620.00	
FLOOR FRAMING	W16 X 36 MEMBERS	1.08 TONS			620.00	
FLOOR FRAMING	W16 X 40 MEMBERS	.80 TONS			620.00	
FLOOR FRAMING	W18 X 64 MEMBERS	.64 TONS			620.00	
FLOOR FRAMING	W8 X 13 MEMBERS	1.88 TONS			620.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
FLOOR FRAMING	WT6 X 6 MEMBERS	.10 TONS				620.00
FLOOR FRAMING	C-CHANNEL FRAMING	.82 TONS				623.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	3.66 TONS				623.00
FLOOR FRAMING	W10 X 19 MEMBERS	.50 TONS				623.00
FLOOR FRAMING	W12 X 22 MEMBERS	.10 TONS				623.00
FLOOR FRAMING	W14 X 30 MEMBERS	2.10 TONS				623.00
FLOOR FRAMING	W14 X 38 MEMBERS	.38 TONS				623.00
FLOOR FRAMING	W14 X 53 MEMBERS	.53 TONS				623.00
FLOOR FRAMING	W16 X 36 MEMBERS	1.08 TONS				623.00
FLOOR FRAMING	W16 X 40 MEMBERS	.80 TONS				623.00
FLOOR FRAMING	W18 X 50 MEMBERS	2.50 TONS				623.00
FLOOR FRAMING	WT6 X 18 MEMBERS	.21 TONS				623.00
FLOOR FRAMING	WT6 X 18 MEMBERS	.29 TONS				623.00
FLOOR FRAMING	C-CHANNEL FRAMING	.84 TONS				630.00
FLOOR FRAMING	C-CHANNEL FRAMING	.21 TONS				630.00
FLOOR FRAMING	C-CHANNEL FRAMING	.49 TONS				630.00
FLOOR FRAMING	C-CHANNEL FRAMING	1.22 TONS				630.00
FLOOR FRAMING	C-CHANNEL FRAMING	.35 TONS				630.00
FLOOR FRAMING	C-CHANNEL FRAMING	.20 TONS				630.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	6.10 TONS				630.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	3.66 TONS				630.00
FLOOR FRAMING	MISC ANGLE FRAMING	.04 TONS				630.00
FLOOR FRAMING	W10 X 19 MEMBERS	.50 TONS				630.00
FLOOR FRAMING	W10 X 19 MEMBERS	.35 TONS				630.00
FLOOR FRAMING	W10 X 19 MEMBERS	1.15 TONS				630.00
FLOOR FRAMING	W14 X 30 MEMBERS	9.90 TONS				630.00
FLOOR FRAMING	W14 X 30 MEMBERS	.75 TONS				630.00
FLOOR FRAMING	W14 X 30 MEMBERS	3.00 TONS				630.00
FLOOR FRAMING	W14 X 30 MEMBERS	3.30 TONS				630.00
FLOOR FRAMING	W16 X 36 MEMBERS	3.24 TONS				630.00
FLOOR FRAMING	W16 X 36 MEMBERS	.72 TONS				630.00
FLOOR FRAMING	W16 X 36 MEMBERS	.72 TONS				630.00
FLOOR FRAMING	W24 X 76 MEMBERS	4.56 TONS				630.00
FLOOR FRAMING	WT4 X 10 MEMBERS	.08 TONS				630.00
FLOOR FRAMING	WT6 X 18 MEMBERS	.33 TONS				630.00
FLOOR FRAMING	MEDIUM FLOOR PLATE	1.22 TONS				636.83
MISC STEEL	C-CHANNEL FRAMING	.28 TONS				636.83
MISC STEEL	C-CHANNEL FRAMING	.18 TONS				636.83
MISC STEEL	W12 X 27 MEMBERS	2.54 TONS				636.83
MISC STEEL	W14 X 30 MEMBERS	.39 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	1.26 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	17.34 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	5.43 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	14.25 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	1.50 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	.84 TONS				636.83
ROOF FRAMING	C-CHANNEL FRAMING	4.80 TONS				636.83
ROOF FRAMING	MISC ANGLE FRAMING	.51 TONS				636.83
ROOF FRAMING	MISC ANGLE FRAMING	.51 TONS				636.83
ROOF FRAMING	MISC ANGLE FRAMING	.15 TONS				636.83
ROOF FRAMING	MISC ANGLE FRAMING	.10 TONS				636.83
ROOF FRAMING	THREADED RODS	.44 TONS				636.83
ROOF FRAMING	THREADED RODS	.38 TONS				636.83

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ROOF FRAMING	THREADED RODS	.07 TONS			636.83	
ROOF FRAMING	THREADED RODS	.06 TONS			636.83	
ROOF FRAMING	W12 X 27 MEMBERS	.22 TONS			636.83	
ROOF FRAMING	W14 X 30 MEMBERS	22.62 TONS			636.83	
ROOF FRAMING	W14 X 30 MEMBERS	4.95 TONS			636.83	
ROOF FRAMING	W14 X 30 MEMBERS	16.53 TONS			636.83	
ROOF FRAMING	W14 X 30 MEMBERS	23.28 TONS			636.83	
ROOF FRAMING	W16 X 36 MEMBERS	1.19 TONS			636.83	
ROOF FRAMING	W16 X 40 MEMBERS	2.64 TONS			636.83	
ROOF FRAMING	W18 X 50 MEMBERS	4.00 TONS			636.83	
ROOF FRAMING	W21 X 62 MEMBERS	1.86 TONS			636.83	
ROOF FRAMING	W24 X 76 MEMBERS	.76 TONS			636.83	
ROOF FRAMING	W8 X 24 MEMBERS	1.32 TONS			636.83	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	95.83	1600.42	23.48
SHEET METAL PILING DEMO	SHEET METAL PILING	23.48 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	164.67	329.33	3.29
EXT DOOR DEMO	EXT DOORS (MAN & OH)	988.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1311.79	2623.58	220.47
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	50.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1621.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1318.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	70.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1267.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4662.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	121.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			580.00	

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Material	Material Description	Grade Level	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity				Elevation (FT)	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	16218.18 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4054.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4054.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	7095.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	8109.09 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2331.82 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1318.18 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2534.55 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT				588.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	557.27 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT				590.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT				590.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) Weight (TONS) / Elevation (FT)
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	8109.09	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	4054.55	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	5068.18	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73	LNFT		596.00
ELECTRICAL DEMO.	2" DIAMETER & LESS	608.18	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1318.18	LNFT		596.00
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73	LNFT		600.00
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	4054.55	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82	LNFT		602.50
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55	LNFT		606.00
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82	LNFT		606.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64	LNFT		607.00
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55	LNFT		607.00
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18	LNFT		607.00
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		607.00
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00	LNFT		607.00
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	2534.55	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91	LNFT		610.00
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18	LNFT		615.00
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73	LNFT		615.00
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		615.00
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18	LNFT		615.00
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73	LNFT		616.75
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45	LNFT		618.50

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			618.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			620.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			623.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			623.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			630.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	141.82 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	5068.18 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	6081.82 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	232.73 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	2027.27 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82 LNFT			636.83	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			636.83	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	562.69	1125.38	61.14
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	497.66 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	398.13 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	398.13 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	696.56 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	795.94 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1393.13 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	298.44 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1293.59 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1293.59 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	795.94 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	795.94 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	696.56 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			600.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2692.00	5384.00	36.83
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	76.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	111.00 EACH			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	ELECTRICAL FIXTURES	80.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	71.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	45.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	15.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	47.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH		580.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	31.00 EACH		588.58		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH		588.58		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	34.00 EACH		590.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	59.00 EACH		590.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH		590.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	61.00 EACH		596.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	50.00 EACH		596.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	59.00 EACH		600.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH		602.50		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	18.00 EACH		606.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH		607.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	27.00 EACH		607.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	50.00 EACH		610.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	38.00 EACH		610.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH		615.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	21.00 EACH		615.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH		616.75		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH		616.75		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00 EACH		616.75		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH		616.75		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH		616.75		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH		618.50		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	21.00 EACH		618.50		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH		620.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	41.00 EACH		620.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	21.00 EACH		620.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH		620.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH		623.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH		623.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH		630.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH		630.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH		630.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH		630.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH		636.83		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH		636.83		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH		636.83		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH		636.83		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH		636.83		
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	80.00	160.00	2.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	4.00 EACH		.00		
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	640.00	1280.00	16.00

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	64.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	6107.40	21375.90	60.30
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6786.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	753.30	2636.55	13.05
EQUIPMENT DEMO	HVAC EQUIPMENT	837.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1846.80	6463.80	17.82
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2052.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	123630.30	432706.05	805.86
EQUIPMENT DEMO	PROCESS EQUIPMENT	137367.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	471.12	942.24	53.09
PIPING DEMO	2" DIAMETER & LESS	19994.92 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	329.43	658.85	23.59
PIPING DEMO	2-1/2" TO 4" DIAMETER	3495.33 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	440.35	880.69	19.45
PIPING DEMO	OVER 4" DIAMETER	1168.05 LNFT			580.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	108.91	217.82	4.81
STORM SEWER DEMO	ST-10"CI SOIL PIPE	80.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI SOIL PIPE	80.00 LNFT			.00	
STORM SEWER DEMO	ST-8"CI SOIL PIPE	100.00 LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	678.60	2375.10	6.70
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6786.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	83.70	292.95	1.45
EQUIPMENT DEMO	HVAC EQUIPMENT	837.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	205.20	718.20	1.98
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2052.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	13736.70	48078.45	89.54
EQUIPMENT DEMO	PROCESS EQUIPMENT	137367.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	52.35	104.69	5.90
PIPING DEMO	2" DIAMETER & LESS	19994.92 LNFT			580.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	19.11	38.22	2.15
SUMP LIQUOR DEMO	SL-(X)-.75"T	150.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-(X)-2"T	580.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	36.60	73.21	2.62
PIPING DEMO	2-1/2" TO 4" DIAMETER	3495.33 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	48.93	97.85	2.16
PIPING DEMO	OVER 4" DIAMETER	1168.05 LNFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DUCTWORK	DUCTWORK	ABOVE GRADE	D	209.28	418.55	57.74
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	33803.51 SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	8191.97 SQFT			580.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	11.24	22.48	3.99
LEAD FLASHING DEMO	LEAD FLASHING	7980.00 LBS			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	31.33	62.67	.63
LOUVER DEMO	EXT LOUVERS	188.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	13259.52	17237.38	994.46
CONCRETE CURBING DEMO	CURBING PERIMETER	38.25 CUYD			.00	
CONCRETE CURBING DEMO	TURN DOWN CURB	.83 CUYD			.00	
CONCRETE CURBING DEMO	W/INTEGRAL CURB	8.30 CUYD			.00	
CONCRETE DEMO	G1-151 TO 156 FNDNS	96.00 CUYD			.00	
CONCRETE DEMO	MAT FOOTING #1/4 PIERS	174.22 CUYD			.00	
CONCRETE DEMO	MAT FOOTING #2/2 PIERS	56.00 CUYD			.00	
CONCRETE DEMO	MISC FNDNS	35.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	OCT FOUNDATION	1.39 CUYD			.00	
CONCRETE SUMP DEMO	2 SUMP WALLS	2.59 CUYD			.00	
CONCRETE SUMP DEMO	BOTTOM SLAB	.31 CUYD			.00	
CONCRETE SUMP DEMO	FLOOR SUMPS	1.60 CUYD			.00	
CONCRETE SUMP DEMO	FLOOR TRENCHES	44.17 CUYD			.00	
CONCRETE SUMP DEMO	PIT DECK TOP	2.59 CUYD			.00	
CONCRETE SUMP DEMO	PIT FLOOR SLAB	5.19 CUYD			.00	
CONCRETE SUMP DEMO	PIT SLAB	2.59 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	6.48 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	3.63 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	3.38 CUYD			.00	
CONCRETE SUMP DEMO	POT PIT WALLS	7.11 CUYD			.00	
CONCRETE SUMP DEMO	ROUND PITS	.91 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	16331.39	21230.80	1224.85
CONCRETE CURBING DEMO	DIKE WALL PERIMETER	12.34 CUYD			.00	
CONCRETE CURBING DEMO	DIKE WALL PERIMETER	10.89 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	5 OCTAGONAL FNDNS	17.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP. FOUNDATION	.28 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP./PUMP PADS	1.19 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP./PUMP PADS	4.44 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	13.50 CUYD			.00	
CONCRETE FOOTING DEMO	20 SQUARE EQUIP. FTGS.	71.11 CUYD			.00	
CONCRETE FOOTING DEMO	4 FOOTINGS	11.73 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	26.15 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS I	37.46 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS II	36.11 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS III	8.36 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS V	175.50 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS VI	7.33 CUYD			.00	
CONCRETE FOOTING DEMO	POT SLAB/FOOTING	3.56 CUYD			.00	
CONCRETE FOOTING DEMO	WALL FOOTINGS	1.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.44 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.44 CUYD			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE GRADE BEAM DEMO	GRADE BEAM	78.81 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.81 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.08 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	2.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	6.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDESTALS I	2.24 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDESTALS II	1.37 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDESTALS III	.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDESTALS V	4.61 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDESTALS VI	.25 CUYD			.00	
CONCRETE PEDESTAL DEMO	MAT PIERS	2.96 CUYD			.00	
CONCRETE PEDESTAL DEMO	MAT PIERS	2.96 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	9.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	11.85 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	5.93 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.56 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	2165.94	2815.72	162.45
CONCRETE SLAB DEMO	CONCRETE SLABS	80.22 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	17550.00	22815.00	1316.25
CONCRETE SLAB DEMO	CONCRETE SLABS	230.20 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	205.44 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	9.87 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	204.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	2177.54	2830.81	163.32
CONCRETE SLAB DEMO	BOTTOM SLAB	.55 CUYD			.00	
CONCRETE SLAB DEMO	ENCLOSURE #4 SLAB	8.33 CUYD			.00	
CONCRETE SLAB DEMO	LOWER FLOOR SLAB	54.89 CUYD			.00	
CONCRETE SLAB DEMO	SLAB	16.88 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	6723.00	8739.90	504.23
CONCRETE WALL DEMO	CONCRETE WALLS	22.00 CUYD			580.00	
CONCRETE WALL DEMO	CONCRETE WALLS	136.00 CUYD			580.00	
CONCRETE WALL DEMO	CONCRETE WALLS	91.00 CUYD			580.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	3360.00	4368.00	252.00
CONCRETE WALL DEMO	BELOW GRADE WALLS	80.00 CUYD			.00	
CONCRETE WALL DEMO	BELOW GRADE WALLS	44.44 CUYD			.00	
CONCRETE	ACID BRICK	ABOVE GRADE	F	400.00	520.00	28.00
ACID BRICK DEMO	ACID BRICK IN EXTRACTION	1200.00 SQFT			.00	
CONCRETE	ACID BRICK	AT GRADE	F	4612.00	5995.60	322.84
ACID BRICK DEMO	ACID BRICK IN DENITRATION	1800.00 SQFT			.00	
ACID BRICK DEMO	ACID BRICK IN DIGESTION	7236.00 SQFT			.00	
ACID BRICK DEMO	ACID BRICK IN EXTRACTION	4800.00 SQFT			.00	
TILE	FLOOR TILE	ABOVE GRADE	G	4.69	5.62	.23
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	225.00 SQFT			.00	

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
TILE	FLOOR TILE	AT GRADE			G	12.50	15.00	.60
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE		600.00	SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE			G	1708.07	2049.69	96.04
EXT TRANSITE DEMO	EXT TRANSITE PANELS		46850.00	SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE			G	1391.46	1669.75	76.81
INT TRANSITE DEMO	INT TRANSITE PANELS		66790.00	SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE			G	957.03	1148.44	53.81
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)		26250.00	SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE			H	349.96	1399.85	.79
HVAC DEMO	INSULATION		4199.55	SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE			H	345.38	1381.53	.78
PIPING DEMO	INSULATION		4144.58	SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE			H	117.61	141.13	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		735.07	CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE			I	3.42	6.84	.11
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT		70.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT		11.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT		9.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT		22.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT		18.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT		36.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	22C-607 CONDUIT		25.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	22C-608 CONDUIT		11.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	22C-614 CONDUIT		14.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	22C-615 CONDUIT		11.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	22C-616 CONDUIT		10.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	4" ELECTRICAL CONDUIT		16.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5" ELECTRICAL CONDUIT		30.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5" ELECTRICAL CONDUIT		5.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5" ELECTRICAL CONDUIT		32.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5"C 3-1/C 350 MCM		28.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5"C 3-1/C 350 MCM		25.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5"C 3-1/C 350 MCM CONDUIT		28.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5"C 3-1/C 350 MCM CONDUIT		21.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	5"C 3-1/C 350 MCM CONDUIT		30.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	ELECTRICAL GROUND		175.00	LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE			I	7808.33	9370.00	17.57
INSULATION DEMO	INSULATION (BAT)		46850.00	SQFT			580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE			I	1096.00	2192.00	16.44
MISC. MATERIAL DEMO	MISC. DEBRIS		1096.00	CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE			I	617.46	740.95	.93
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		735.07	CUFT			.00	

000283

Source: 2A ORE REFINERY PLANT Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
WINDOWS	WINDOWS	ABOVE GRADE	I	2070.00	4140.00	41.40
WINDOW DEMO	WINDOWS	12420.00 SQFT			580.00	

Source: 2B GENERAL/REFINERY SUMP CONTROL BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	112.86	1884.71	27.65
COLUMN DEMO	C-CHANNEL FRAMING	.27 TONS			580.00	
COLUMN DEMO	W8 X 40 MEMBERS	3.86 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.73 TONS			580.00	
ROOF FRAMING DEMO	MISC. ANGLE FRAMING	.19 TONS			580.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	2.54 TONS			580.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.78 TONS			589.42	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	2.10 TONS			589.42	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.08 TONS			589.42	
FLOOR FRAMING DEMO	W12 X 45 MEMBERS	3.69 TONS			589.42	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	1.33 TONS			589.42	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	3.50 TONS			589.42	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.83 TONS			597.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	.50 TONS			597.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	3.43 TONS			597.00	
MISC. STEEL DEMO	MISC. ANGLE FRAMING	1.06 TONS			597.00	
MISC. STEEL DEMO	MISC. STEEL (PLATES ETC)	.34 TONS			597.00	
MISC. STEEL DEMO	THREADED RODS	.22 TONS			597.00	
MISC. STEEL DEMO	W12 X 27 MEMBERS	.20 TONS			597.00	
DOORS	DOORS	ABOVE GRADE	B	23.33	46.67	.47
EXT DOOR DEMO	EXT DOORS (MAN & OH)	140.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	9.95	19.91	1.67
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.72	23.43	1.27
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	32.71	65.43	2.72
ELECTRICAL DEMO	OVER 4" DIAMETER	199.93 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	28.00	56.00	.18
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	291.60	1020.60	2.88
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	324.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	36.00	126.00	.63
EQUIPMENT DEMO	HVAC EQUIPMENT	40.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	88.20	308.70	.81
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	98.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5902.20	20657.70	38.43
EQUIPMENT DEMO	PROCESS EQUIPMENT	6558.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	8.24	16.49	.93
PIPING DEMO	2" DIAMETER & LESS	349.83 LNFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.88	3.77	.13
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	37.40	113.40	.32
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	324.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	4.00	14.00	.07
EQUIPMENT DEMO	HVAC EQUIPMENT	40.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	9.80	34.30	.09
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	98.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	655.80	2295.30	4.27
EQUIPMENT DEMO	PROCESS EQUIPMENT	6558.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.92	1.83	.10
PIPING DEMO	2" DIAMETER & LESS	349.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.21	.42	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			580.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.28	.56	.10
LEAD FLASHING DEMO	LEAD FLASHING	200.00 LBS			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.79	7.57	.94
METAL WALL PANEL DEMO	EXT. METAL PANELS	1700.00 SQFT			580.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.79	7.57	.94
METAL WALL PANEL DEMO	INT. METAL PANELS	1700.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.00	2.00	.25
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	450.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	118.66	154.26	8.90
CONCRETE SUMP DEMO	FLOOR TRENCH SUMP	.23 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH	4.17 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1198.10	1557.53	89.86
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDNS ON FLOOR	1.33 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDNS ON FLOOR	1.78 CUYD			.00	
CONCRETE FOOTING DEMO	FTG PEDESTALS	2.67 CUYD			.00	
CONCRETE FOOTING DEMO	FTG-EQUIP PAD FNDN	3.50 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	5.93 CUYD			.00	
CONCRETE FOOTING DEMO	TYP. ISOC FOOTINGS	9.48 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.66 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.14 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	.41 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.11 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	ISOLATED PEDASTALS	4.80 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	176.85	229.91	33.26

Source: 2B GENERAL/REFINERY SUMP CONTROL BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	CONCRETE SLABS	6.55 CUYD		589.42		
CONCRETE	CONCRETE SLABS	AT GRADE	E	364.32	473.62	27.32
CONCRETE SLAB DEMO	SLAB AT GRADE	4.89 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE	8.60 CUYD		.00		
CONCRETE	ACID BRICK	AT GRADE	F	234.67	305.07	16.43
ACID BRICK DEMO	ACID BRICK FLOOR	704.00 SQFT		.00		
TILE	FLOOR TILE	AT GRADE	G	8.71	10.45	.42
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	418.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	82.03	98.44	4.61
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2250.00 SQFT		580.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	62.50	75.00	3.45
INT TRANSITE DEMO	INT TRANSITE PANELS	3000.00 SQFT		580.00		
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	27.34	32.81	1.54
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	750.00 SQFT		580.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.02	16.06	.01
PIPING DEMO	INSULATION	48.19 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	72.84	87.41	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	455.27 CUFT		.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	783.33	940.00	1.76
INSULATION DEMO	INSULATION (BAT)	4700.00 SQFT		580.00		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	150.00	300.00	2.25
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00 CUFT		580.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	382.43	458.91	.58
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	455.27 CUFT		.00		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	30.61	511.22	7.50
COLUMN DEMO	W12 X 19 MEMBERS	.75 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.00 TONS			580.00	
ROOF FRAMING DEMO	W8 X 40 MEMBERS	5.75 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	6.67	13.33	.13
EXT DOOR DEMO	EXT DOORS (MAN & OH)	40.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.78	7.57	.64
ELECTRICAL DEMO	2" DIAMETER & LESS	578.18 LNFT			626.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			626.83	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	5.40	18.90	.14
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1980.00	6930.00	8.91
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2200.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	8.10	28.35	.32
EQUIPMENT DEMO	PROCESS EQUIPMENT	9.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	6.37	12.73	.72
PIPING DEMO	2" DIAMETER & LESS	270.17 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	98.00	195.99	4.33
PIPING DEMO	OVER 4" DIAMETER	259.95 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.60	2.10	.02
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.20	.70	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	220.00	770.00	.99
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2200.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.90	3.15	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	9.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.71	1.41	.08
PIPING DEMO	2" DIAMETER & LESS	270.17 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	10.89	21.78	.48
PIPING DEMO	OVER 4" DIAMETER	259.95 LNFT			580.00	

Source: 2C BULK LIME HANDLING BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE	BELOW GRADE	E	25.20	32.76	1.89
CONCRETE SUMP DEMO	PITS/WALL	.93 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1892.75	2460.58	141.96
CONCRETE EQUIPMENT FNDN DEMO	SILO FNDNS BELOW GRADE	17.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	10.37 CUYD			.00	
CONCRETE FOOTING DEMO	PITS FOOTING	.32 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.70 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.39 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.17 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	5.93 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	322.50	419.25	24.19
CONCRETE SLAB DEMO	SLAB AT GRADE	8.81 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	3.13 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	69.27	83.12	3.90
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1900.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	21.87	26.25	1.23
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	600.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	E	14.06	56.22	.03
PIPING DEMO	INSULATION	168.67 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	E	26.56	31.87	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	75.00	150.00	1.13
MISC. MATERIAL DEMO	MISC. DEBRIS	75.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	139.43	167.31	.21
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	33.33	66.67	.67
WINDOW DEMO	WINDOWS	200.00 SQFT			580.00	

Source: 2D METAL DISSOLVER BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	134.07	2238.89	32.85
COLUMN DEMO	W12 X 27 MEMBERS	2.70 TONS			580.00	
COLUMN DEMO	W8 X 24 MEMBERS	2.21 TONS			580.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.80 TONS			580.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	4.08 TONS			580.00	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	6.63 TONS			580.00	
FLOOR FRAMING DEMO	MISC STEEL	1.00 TONS			580.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	1.16 TONS			580.00	
FLOOR FRAMING DEMO	W12 X 65 MEMBERS	1.30 TONS			580.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.79 TONS			580.00	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	1.86 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	3.00 TONS			580.00	
ROOF FRAMING DEMO	MISC. ANGLES	.80 TONS			580.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	3.54 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	26.67	53.33	.53
EXT DOOR DEMO	EXT DOORS (MAN & OH)	160.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	145.92	291.85	24.52
ELECTRICAL DEMO	2" DIAMETER & LESS	385.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	60.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2534.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2534.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1013.64 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	312.00	624.00	1.95
ELECTRICAL DEMO	ELECTRICAL FIXTURES	106.67 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.33 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	26.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	373.50	1307.25	3.69
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	415.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	45.90	160.65	.81
EQUIPMENT DEMO	HVAC EQUIPMENT	51.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	113.40	396.90	1.08
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	126.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	7567.20	26485.20	49.32
EQUIPMENT DEMO	PROCESS EQUIPMENT	8408.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	44.46	88.91	5.01
PIPING DEMO	2" DIAMETER & LESS	393.90 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	115.25 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	133.90 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	305.76 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	334.92 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	377.97 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	63.74	127.47	4.56
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	50.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	135.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	41.50	145.25	.41
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	415.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	5.10	17.85	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	51.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	12.60	44.10	.12
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	126.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	840.80	2942.80	5.48
EQUIPMENT DEMO	PROCESS EQUIPMENT	8408.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	4.94	9.88	.56
PIPING DEMO	2" DIAMETER & LESS	393.90 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	115.25 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	133.90 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	305.76 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	334.92 LNFT			580.00	

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Source: 2D METAL DISSOLVER BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	377.97 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	7.08	14.16	.51
PIPING DEMO	2-1/2" TO 4" DIAMETER	252.67 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	50.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	135.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	1.11	2.22	.31
HVAC DEMO	DUCTWORK DEMO (ROUND)	222.54 SQFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	3.33	6.67	.07
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1364.00	1773.20	102.30
CONCRETE SUMP DEMO	PIT FLOOR SLAB	20.74 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	11.85 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	16.59 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	1.33 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	734.50	954.85	55.09
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDNS ON FLOOR	.28 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	3.11 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	4.44 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	1.33 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	1.85 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.11 CUYD			.00	
CONCRETE GRADE BEAM DEMO	PORCH STOOP GRADE BEAM	7.78 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	1.30 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	891.00	1158.30	66.83
CONCRETE SLAB DEMO	CONCRETE SLABS	11.46 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	4.17 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	17.37 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	75.00	97.50	5.63
CONCRETE SLAB DEMO	PORCH STOOP SLAB	2.78 CUYD			.00	
CONCRETE	ACID BRICK	BELOW GRADE	F	325.33	422.93	22.77
ACID BRICK DEMO	BRICK LINED WALL & FLOOR	476.00 SQFT			.00	
ACID BRICK DEMO	BRICK LINED WALL & FLOOR	476.00 SQFT			.00	
ACID BRICK DEMO	PIT FLOOR WITH BRICK	24.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	145.83	175.00	8.20
EXT TRANSITE DEMO	EXT TRANSITE PANELS	4000.00 SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	125.00	150.00	6.90
INT TRANSITE DEMO	INT TRANSITE PANELS	6000.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	76.56	91.87	4.31

Source: 2D METAL DISSOLVER BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	2100.00 SQFT				580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE		H	1.85	7.42	.00
HVAC DEMO	INSULATION	22.25 SQFT				.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	35.14	140.56	.08
PIPING DEMO	INSULATION	421.69 SQFT				.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	104.71	125.65	.16
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	654.45 CUFT				.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE		I	1000.00	1200.00	2.25
INSULATION DEMO	INSULATION (BAT)	6000.00 SQFT				580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE		I	225.00	450.00	3.38
MISC. MATERIAL DEMO	MISC. DEBRIS	225.00 CUFT				580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	549.74	659.69	.83
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	654.45 CUFT				.00	
WINDOWS	WINDOWS	ABOVE GRADE		I	80.00	160.00	1.60
WINDOW DEMO	WINDOWS	480.00 SQFT				580.00	

Source: 2E NPS STORAGE AND PUMP HOUSE Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.91	48.57	.71
ROOF FRAMING DEMO	METAL DECKING	.21 TONS			581.50	
ROOF FRAMING DEMO	W10 X 25 MEMBERS	.50 TONS			581.50	
DOORS	DOORS	ABOVE GRADE	B	7.50	15.00	.15
EXT DOOR DEMO	EXT DOORS (MAN & OH)	45.00 SQFT			581.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	15.12	30.25	2.54
ELECTRICAL DEMO	2" DIAMETER & LESS	80.91 LNFT			581.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	1419.09 LNFT			581.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT			581.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			581.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	318.00	1113.00	3.10
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	318.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	39.00	136.50	.70
EQUIPMENT DEMO	HVAC EQUIPMENT	39.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	96.00	336.00	.90
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	96.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	6429.00	22501.50	41.90
EQUIPMENT DEMO	PROCESS EQUIPMENT	6429.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	83.40	166.81	9.40
PIPING DEMO	2" DIAMETER & LESS	164.75 LNFT			581.50	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			581.50	
PIPING DEMO	2" DIAMETER & LESS	901.02 LNFT			581.50	
PIPING DEMO	2" DIAMETER & LESS	65.08 LNFT			581.50	
PIPING DEMO	2" DIAMETER & LESS	1949.83 LNFT			581.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	197.65	395.31	14.16
PIPING DEMO	2-1/2" TO 4" DIAMETER	436.40 LNFT			581.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1201.33 LNFT			581.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	123.87 LNFT			581.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	125.87 LNFT			581.50	
CONCRETE	CONCRETE	ABOVE GRADE	E	135.00	175.50	10.13
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	5.00 CUYD			581.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	299.60	389.48	22.47
CONCRETE FOOTING DEMO	STRIP FOOTINGS	2.37 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	2.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	2.37 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.36 CUYD			.00	

Source: 2E NFS STORAGE AND PUMP HOUSE Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE SLABS	AT GRADE	E	179.20	232.96	13.44
CONCRETE SLAB DEMO	SLAB AT GRADE	6.64 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	383.33	498.33	10.54
MASONRY WALL DEMO	MASONRY WALLS	575.00 SQFT			581.50	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	76.31	305.22	.17
PIPING DEMO	INSULATION	915.66 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	44.01	52.81	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	275.06 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	231.05	277.26	.35
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	275.06 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	20.83	41.67	.75
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	250.00 SQFT			581.50	
WINDOWS	WINDOWS	ABOVE GRADE	I	3.33	6.67	.07
WINDOW DEMO	WINDOWS	20.00 SQFT			581.50	

Source: 2F COLD SIDE ORE CONVEYOR Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	44.49	742.98	10.90
COLUMN DEMO	W8 X 28 MEMBERS	3.10 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.20 TONS			580.00	
ROOF FRAMING DEMO	W10 X 45 MEMBERS	6.60 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	14.00	233.80	3.43
SHEET METAL PILING DEMO	SHEET METAL PILING	3.43 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	20.00	40.00	.40
EXT DOOR DEMO	EXT DOORS (MAN & OH)	120.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.65	5.31	.45
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	7.62	15.24	.83
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	129.38 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	281.00	983.50	2.80
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	281.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	35.00	122.50	.60
EQUIPMENT DEMO	HVAC EQUIPMENT	35.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	85.00	297.50	.80
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	85.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5687.00	19904.50	37.10
EQUIPMENT DEMO	PROCESS EQUIPMENT	5687.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	5.76	11.52	.65
PIPING DEMO	2" DIAMETER & LESS	220.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.05	2.09	.07
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.88	1.76	.24
HVAC DEMO	DUCTWORK DEMO (ROUND)	176.73 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	2744.00	3567.20	205.80
CONCRETE SUMP DEMO	PIT #1-PIT WALLS	74.67 CUYD			.00	
CONCRETE SUMP DEMO	PIT #2 WALLS	2.07 CUYD			.00	
CONCRETE SUMP DEMO	PIT #2 WALLS	.39 CUYD			.00	
CONCRETE SUMP DEMO	PIT SLAB	24.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	700.00	910.00	52.50
CONCRETE SLAB DEMO	OPEN SHELTER SLAB AT GRADE	25.93 CUYD			.00	

Source: 2F COLD SIDE ORE CONVEYOR Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	29.17	35.00	1.64
EXT TRANSITE DEMO	EXT TRANSITE PANELS	800.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	61.98	74.37	3.49
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1700.00 SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	1.47	5.89	.00
HVAC DEMO	INSULATION	17.67 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.01	12.05	.01
PIPING DEMO	INSULATION	36.14 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	37.94	45.53	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	237.12 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	199.18	239.02	.30
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	237.12 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	7.50	15.00	.15
WINDOW DEMO	WINDOWS	45.00 SQFT			580.00	

Source: 2G HOT SIDE ORE CONVEYOR Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	39.18	654.37	9.60
COLUMN DEMO	W8 X 28 MEMBERS	5.40 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.00 TONS			580.00	
ROOF FRAMING DEMO	W10 X 45 MEMBERS	3.20 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	8.33	16.67	.17
EXT DOOR DEMO	EXT DOORS	50.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.97	11.95	1.00
ELECTRICAL DEMO	2" DIAMETER & LESS	912.73 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.58	1.16	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	9.84 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	14.00	28.00	.09
ELECTRICAL DEMO	ELECTRICAL FIXTURES	7.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	366.00	1281.00	3.60
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	366.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	45.00	157.50	.80
EQUIPMENT DEMO	HVAC EQUIPMENT	45.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	111.00	388.50	1.10
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	111.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	7418.00	25963.00	48.40
EQUIPMENT DEMO	PROCESS EQUIPMENT	7418.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	10.47	20.94	1.18
PIPING DEMO	2" DIAMETER & LESS	400.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	15.71	31.42	1.12
PIPING DEMO	2-1/2" TO 4" DIAMETER	150.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	12.57	25.13	.55
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	300.00	390.00	22.50
CONCRETE SUMP DEMO	BLDG PIT SLAB	3.70 CUYD			.00	
CONCRETE SUMP DEMO	BLDG PIT WALLS	7.41 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	742.00	964.60	55.65
CONCRETE SLAB DEMO	SLAB AT GRADE	27.48 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	25.16	30.19	1.41
EXT TRANSITE DEMO	EXT TRANSITE PANELS	690.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	36.46	43.75	2.05

Source: 2G HOT SIDE ORE CONVEYOR Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1000.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	9.04	36.14	.02
PIPING DEMO	INSULATION	108.43 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	31.87	38.24	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	199.18 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	167.31	200.77	.25
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	199.18 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.83	21.67	.22
WINDOW DEMO	WINDOWS	65.00 SQFT			580.00	

000299

Source: 2H CONVEYOR TUNNEL (FROM PLANT 1) Component Category: 10 755

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	140.00	182.00	10.50
CONCRETE PEDESTAL DEMO	PEDESTALS	5.19 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	89.39	116.21	6.70
CONCRETE SLAB DEMO	SLAB AT GRADE	3.31 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	1132.53	1472.29	84.94
CONCRETE SLAB DEMO	SLAB BELOW GRADE (BOTTOM SLAB)	.32 CUYD			.00	
CONCRETE SLAB DEMO	TUNNEL SLABS BELOW GRADE	41.63 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	795.20	1033.76	59.64
CONCRETE WALL DEMO	TUNNEL WALLS BELOW GRADE	25.19 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GARDE	1.76 CUYD			.00	
CONCRETE WALL DEMO	WALLS BELOW GARDE	2.51 CUYD			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	BELOW GRADE	I	11.53	23.06	.17
MISC DEMO	CONVEYOR RUBBER BELT	11.53 CUFT			.00	

Source: 30A CHEMICAL WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	620.42	10361.02	152.00
COLUMN DEMO	W18 X 50 MEMBERS	3.00 TONS			585.50	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	12.94 TONS			585.50	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	1.50 TONS			585.50	
MISC. STEEL DEMO	MISC ANGLE FRAMING	10.00 TONS			585.50	
MISC. STEEL DEMO	MISC STEEL (PLATES ETC)	7.45 TONS			585.50	
MISC. STEEL DEMO	MISC. ANGLES	5.00 TONS			585.50	
MISC. STEEL DEMO	THREADED RODS	.86 TONS			585.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	56.53 TONS			585.50	
ROOF FRAMING DEMO	W12 X 36 MEMBERS	2.88 TONS			585.50	
ROOF FRAMING DEMO	W18 X 50 MEMBERS	51.85 TONS			585.50	
DOORS	DOORS	ABOVE GRADE	B	178.50	357.00	3.57
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1071.00 SQFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	35.16	70.33	5.91
ELECTRICAL DEMO	2" DIAMETER & LESS	5372.73 LNFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	23.45	46.90	2.55
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	398.13 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	108.00	216.00	.68
ELECTRICAL DEMO	ELECTRICAL FIXTURES	54.00 EACH			585.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	310.00	620.00	7.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	31.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	8.00	28.00	.26
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	16.00	56.00	.39
EQUIPMENT DEMO	HVAC EQUIPMENT	16.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	73.29	146.57	8.26
PIPING DEMO	2" DIAMETER & LESS	2799.32 LNFT			585.50	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.39	.79	.04
LOW PRESSURE FIRE LINE DEMO	DW-2"	10.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2"	5.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	28.23	56.46	2.02
PIPING DEMO	2-1/2" TO 4" DIAMETER	269.60 LNFT			585.50	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	3.67	7.33	.26
SANITARY SEWER DEMO	SN-3"	5.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	30.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	335.01	670.02	14.80
PIPING DEMO	OVER 4" DIAMETER	799.78 LNFT			585.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	1.41	2.82	.50
LEAD FLASHING DEMO	LEAD FLASHING	1000.00 LBS			585.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	4332.27	5631.96	324.92
CONCRETE FOOTING DEMO	FOOTING A1	1.77 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A2 TO A8	23.17 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A9 TO A12	4.51 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS E1	1.13 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS E2 TO E8	23.09 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS E9 TO E12	7.08 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F1 TO F9	18.57 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS G1 TO G12	18.90 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	62.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	13751.10	17876.43	1031.33
CONCRETE SLAB DEMO	CONCRETE SLABS	312.40 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	161.00 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	35.90 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	320.00	416.00	8.80
MASONRY WALL DEMO	MASONRY WALLS	480.00 SQFT			585.50	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	125.00	250.00	1.50
CEILING DEMO	CEILING DEMO	2000.00 SQFT			585.50	
TILE	FLOOR TILE	AT GRADE	G	1.87	2.25	.09
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	90.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	510.42	612.50	28.70
EXT TRANSITE DEMO	EXT TRANSITE PANELS	14000.00 SQFT			585.50	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	185.52	222.62	10.24
INT TRANSITE DEMO	INT TRANSITE PANELS	8905.00 SQFT			585.50	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	1050.00	1260.00	59.04
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	28800.00 SQFT			585.50	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	71.29	285.14	.16
PIPING DEMO	INSULATION	855.42 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	597.54 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	62.50	125.00	1.65
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	1000.00 SQFT			585.50	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1484.17	1781.00	3.34
INSULATION DEMO	INSULATION (RIGID)	8905.00 SQFT			585.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	500.00	1000.00	7.50
MISC. MATERIAL DEMO	MISC. DEBRIS	500.00 CUFT			585.50	

Source: 30A CHEMICAL WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	501.94	602.32	.76
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	597.54 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	594.92	1189.83	11.90
WINDOW DEMO	WINDOWS	3569.50 SQFT			585.50	

000303

Source: 30B DRUM STORAGE WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Takeoff Quantity	Weight (TONS) / Elevation (FT)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	8.16	136.33	2.00
MISC. STEEL DEMO	MISC. ANGLES			2.00 TONS	585.00	
DOORS	DOORS	ABOVE GRADE	B	48.33	96.67	.97
EXT DOOR DEMO	EXT DOORS (MAN & OH)			290.00 SQFT	585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.99	3.99	.33
ELECTRICAL DEMO	2" DIAMETER & LESS			304.55 LNFT	585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.18	2.36	.13
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER			20.00 LNFT	585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES			2.00 EACH	585.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS			1.00 EACH	.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT			2.00 CUFT	.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	7.00	24.50	.23
EQUIPMENT DEMO	HVAC EQUIPMENT			7.00 CUFT	.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.05	.11	.01
PIPING DEMO	2" DIAMETER & LESS			2.03 LNFT	585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.05	2.09	.07
PIPING DEMO	2-1/2" TO 4" DIAMETER			10.00 LNFT	585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	4.19	8.38	.18
PIPING DEMO	OVER 4" DIAMETER			10.00 LNFT	585.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	2.94	5.88	.73
METAL WALL PANEL DEMO	EXT. METAL PANELS			1320.00 SQFT	585.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.67	3.34	.41
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)			750.00 SQFT	585.00	
CONCRETE	CONCRETE	BELOW GRADE	E	34.67	45.07	2.60
CONCRETE CURBING DEMO	CURBING			1.28 CUYD	.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	320.00	416.00	24.00
CONCRETE SLAB DEMO	SLAB AT GRADE			11.85 CUYD	.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.00	4.02	.00
PIPING DEMO	INSULATION			12.05 SQFT	.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	19.73	23.67	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT			123.30 CUFT	.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	103.57	124.29	.16

Source: 30B DRUM STORAGE WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	123.30 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	25.00	50.00	.50
WINDOW DEMO	WINDOWS	150.00 SQFT			585.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	126.53	2113.03	31.00
ROOF FRAMING DEMO	METAL DECKING	6.50 TONS			579.83	
MISC. STEEL DEMO	MISC STEEL	8.40 TONS			579.83	
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS			579.83	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	14.10 TONS			579.83	
DOORS	DOORS	ABOVE GRADE	B	98.67	197.33	1.97
EXT DOOR DEMO	EXT DOORS (MAN & OH)	592.00 SQFT			579.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	19.90	39.81	3.34
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	64.46	128.93	7.00
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1094.38 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	90.00	180.00	.56
ELECTRICAL DEMO	ELECTRICAL FIXTURES	45.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	110.00	220.00	2.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	11.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	28.80	100.80	.77
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	32.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	108.90	381.15	12.40
EQUIPMENT DEMO	HVAC EQUIPMENT	121.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	27.00	94.50	.02
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	136.80	478.80	1.69
EQUIPMENT DEMO	PROCESS EQUIPMENT	152.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.71	9.42	.53
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			585.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	1.83	3.67	.21
STEAM CONDENSATE DEMO	CN-1.5" IN 6" TILE	70.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	47.06	94.12	3.37
PIPING DEMO	2-1/2" TO 4" DIAMETER	499.33 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	37.70	75.40	1.66
PIPING DEMO	OVER 4" DIAMETER	100.00 LNFT			585.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	3.20	11.20	.09
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	32.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	12.10	42.35	1.38

000306

Source: 31A ENGINE HOUSE/GARAGE Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT DEMO	HVAC EQUIPMENT	121.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	3.00	10.50	.00
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	30.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	15.20	53.20	.19
EQUIPMENT DEMO	PROCESS EQUIPMENT	152.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.52	1.05	.06
PIPING DEMO	2" DIAMETER & LESS	200.00 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	5.23	10.46	.37
PIPING DEMO	2-1/2" TO 4" DIAMETER	499.33 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	4.19	8.38	.18
PIPING DEMO	OVER 4" DIAMETER	100.00 LNFT			585.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	540.00	702.00	40.50
MISC. MATERIAL DEMO	MISC. CONCRETE ITEMS	20.00 CUYD			579.83	
CONCRETE	CONCRETE	BELOW GRADE	E	284.30	369.59	21.32
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE STOOP	.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B	1.27 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C	.80 CUYD			.00	
CONCRETE SUMP DEMO	CONDENSATE PIT	.89 CUYD			.00	
CONCRETE SUMP DEMO	CONDENSATE PIT	1.04 CUYD			.00	
CONCRETE SUMP DEMO	OIL INTERCEPTOR PIT	.40 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	5.47 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1283.11	1668.04	96.23
CONCRETE FOOTING DEMO	FOOTINGS	38.77 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	3.17 CUYD			.00	
CONCRETE FOOTING DEMO	PEDESTALS & FOOTING	5.59 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	3964.05	5153.26	297.30
CONCRETE SLAB DEMO	SLAB AT GRADE	13.60 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	133.22 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	85.50	111.15	6.41
CONCRETE WALL DEMO	WALLS	3.17 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	3986.67	5182.67	109.63
MASONRY WALL DEMO	MASONRY WALLS	5980.00 SQFT			579.83	
PIPING	CLAY PIPING	BELOW GRADE	E	5.94	7.72	.42
SANITARY SEWER DEMO	CN-1.5" IN 6" TILE	70.00 LNFT			.00	
TILE	FLOOR TILE	AT GRADE	G	25.00	30.00	1.20
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	1200.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	E	17.07	68.27	.04
PIPING DEMO	INSULATION	204.82 SQFT			.00	

000307

Source: 31A ENGINE HOUSE/GARAGE Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1274.41	1529.29	2.87
INSULATION DEMO	INSULATION (RIGID)	7646.46 SQFT			579.83	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	200.00	400.00	3.00
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00 CUFT			579.83	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	637.20	1274.41	22.94
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	7646.46 SQFT			579.83	
WINDOWS	WINDOWS	ABOVE GRADE	I	81.00	162.00	1.62
WINDOW DEMO	WINDOWS	486.00 SQFT			579.83	

Source: 31B OLD TRUCK SCALE Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	3647.49	4741.74	273.56

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	TRINGULAR PORTION	1.73 CUYD	.00
CONCRETE SLAB DEMO	TRUCK SCALE	133.36 CUYD	.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	99.26	1657.56	24.32
MISC. STEEL DEMO	MISC STEEL	2.64 TONS			589.67	
MISC. STEEL DEMO	MISC STEEL (PLATES ETC)	2.20 TONS			589.67	
MISC. STEEL DEMO	MISC. ANGLES	1.32 TONS			589.67	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	7.70 TONS			589.67	
ROOF FRAMING DEMO	TRUSS BRACING ANGLES	3.64 TONS			589.67	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	2.00 TONS			589.67	
ROOF FRAMING DEMO	METAL DECKING	4.82 TONS			589.67	
DOORS	DOORS	ABOVE GRADE	B	65.17	130.33	1.30
EXT DOOR DEMO	EXT DOORS (MAN & OH)	391.00 SQFT			589.67	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	12.61	25.22	2.12
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT			589.67	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	5.86	11.73	.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	99.53 LNFT			589.67	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	40.00	80.00	.25
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			589.67	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	6.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	5.00	17.50	.18
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	5.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	22.00	77.00	3.20
EQUIPMENT DEMO	PROCESS EQUIPMENT	22.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	2.23	4.45	.25
LOW PRESSURE FIRE LINE DEMO	DW-1"	50.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1.5"	10.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	15.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2"CI SOIL	10.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	38.69	77.38	2.77
PIPING DEMO	2-1/2" TO 4" DIAMETER	369.47 LNFT			589.67	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	2.09	4.19	.15
SANITARY SEWER DEMO	SN-4"CI SOIL	20.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	41.89	83.78	1.85
PIPING DEMO	OVER 4" DIAMETER	100.00 LNFT			589.67	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	2.36	4.72	.65
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	473.45 SQFT			589.67	
CONCRETE	CONCRETE	BELOW GRADE	E	391.41	511.43	29.51

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE STAIRWAY DEMO	STAIRS (FRONT)	2.70 CUYD		.00		
CONCRETE STAIRWAY DEMO	STAIRS (SIDE)	.35 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'4"X2'4"	11.52 CUYD		.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6161.11	8009.44	462.08
CONCRETE FOOTING DEMO	FOOTING AND COLUMNS	.53 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS	.26 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	23.11 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	75.85 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	55.56 CUYD		.00		
CONCRETE GRADE BEAM DEMO	OUTSIDE FOOTING AND GRADE BEAM	28.52 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTAL I	14.52 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTAL III	29.84 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	3132.11	4071.74	234.91
CONCRETE SLAB DEMO	SLAB AT GRADE	18.76 CUYD		.00		
CONCRETE SLAB DEMO	SLAB AT GRADE	97.25 CUYD		.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	488.28	634.76	36.62
CONCRETE WALL DEMO	OUTSIDE SOUTH WALL	18.08 CUYD		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	5023.33	6530.33	138.14
MASONRY WALL DEMO	MASONRY WALLS	7535.00 SQFT		589.67		
PIPING	CLAY PIPING	BELOW GRADE	E	13.58	17.66	.95
STORM SEWER DEMO	ST-2"	5.00 LNFT		.00		
STORM SEWER DEMO	ST-4"	45.00 LNFT		.00		
STORM SEWER DEMO	ST-6"	65.00 LNFT		.00		
STORM SEWER DEMO	ST-8"	45.00 LNFT		.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	3.95	15.78	.01
HVAC DEMO	INSULATION	47.35 SQFT		.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	12.05	48.19	.03
PIPING DEMO	INSULATION	144.58 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	24.28	29.14	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	151.76 CUFT		.00		
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	92.56	185.13	2.44
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	1481.00 SQFT		589.67		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	945.00	1134.00	2.13
INSULATION DEMO	INSULATION (RIGID)	5670.00 SQFT		589.67		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT		589.67		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	127.48	152.97	.19
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	151.76 CUFT		.00		
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	472.50	945.00	17.01
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	5670.00 SQFT		589.67		

000311

Source: 32A MAGNESIUM STORAGE BUILDING Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
WINDOWS	WINDOWS	ABOVE GRADE	I	53.33	106.67	1.07

Work Type	Item	Takeoff Quantity	Elevation (FT)
WINDOW DEMO	WINDOWS	320.00 SQFT	589.67

Source: 32B BUILDING 32 COVERED LOADING DOCK Component Category: 2

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE			A	17.34		289.59	4.25
MISC. STEEL DEMO	MISC. ANGLES		.29	TONS				589.67	
ROOF FRAMING DEMO	C-CHANNEL FRAMING		.77	TONS				589.67	
ROOF FRAMING DEMO	MISC STEEL		.35	TONS				589.67	
ROOF FRAMING DEMO	W10 X 21 MEMBERS		1.90	TONS				589.67	
ROOF FRAMING DEMO	METAL DECKING		.94	TONS				589.67	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE			B	.67		1.33	.11
ELECTRICAL DEMO	2" DIAMETER & LESS		101.82	LNFT				589.67	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE			B	8.00		16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES		4.00	EACH				589.67	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE			B	10.00		20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS		1.00	EACH				.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE			E	1457.11		1894.24	109.28
CONCRETE FOOTING DEMO	FOOTING 1-7 PLUS GRADING WALL		25.19	CUYD				.00	
CONCRETE FOOTING DEMO	FOOTING AND COLUMNS		.26	CUYD				.00	
CONCRETE GRADE BEAM DEMO	OUTSIDE FOOTING AND GRADE BEAM		28.52	CUYD				.00	
CONCRETE	CONCRETE SLABS	AT GRADE			E	607.50		789.75	45.56
CONCRETE SLAB DEMO	SLAB AT GRADE		22.50	CUYD				.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE			H	3.04		3.64	.00
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		18.97	CUFT				.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE			I	185.00		222.00	.42
INSULATION DEMO	INSULATION (RIGID)		1110.00	SQFT				589.67	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE			I	15.93		19.12	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		18.97	CUFT				.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE			I	92.50		185.00	3.33
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)		1110.00	SQFT				589.67	

000313

Source: 35A SILO 4 Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	9.16	18.33	1.03
DUST COLLECTION DEMO	DC-1-2"A1	350.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	144.31	2409.91	35.36
COLUMN DEMO	W16 X 40 MEMBERS	8.00 TONS			579.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	6.00 TONS			579.00	
ROOF FRAMING DEMO	METAL DECKING	5.36 TONS			579.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	16.00 TONS			579.00	
DOORS	DOORS	ABOVE GRADE	B	53.33	106.67	1.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	320.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	23.51	47.02	3.95
ELECTRICAL DEMO	2" DIAMETER & LESS	95.45 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	627.27 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	582.73 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	514.55 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	89.09 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	300.00 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	318.18 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	71.82 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	210.91 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			579.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	77.27 LNFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	31.35	62.70	3.41
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	164.22 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	16.72 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	140.31 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	74.69 LNFT			579.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	136.25 LNFT			579.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	156.00	312.00	.98
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	34.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH			579.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			579.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	90.00	180.00	2.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	9.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	357.30	1250.55	2.34
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	397.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	36.00	126.00	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	40.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	23.40	81.90	1.71
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	26.00 CUFT			.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	9549.90	33424.65	47.52
EQUIPMENT DEMO	PROCESS EQUIPMENT	10611.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	268.88	537.76	19.26
PIPING DEMO	2-1/2" TO 4" DIAMETER	169.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	219.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	59.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1478.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	169.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	51.87 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	39.70	138.95	.26
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	397.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	4.00	14.00	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	40.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	2.60	9.10	.19
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	26.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1061.10	3713.85	5.28
EQUIPMENT DEMO	PROCESS EQUIPMENT	10611.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	29.88	59.75	2.14
PIPING DEMO	2-1/2" TO 4" DIAMETER	169.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	219.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	59.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1478.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	169.73 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	51.87 LNFT			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	.92	1.19	.07
CONCRETE STAIRWAY DEMO	LADDER PIECES	.03 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1714.87	2229.34	128.62
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE PAD	.23 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C	4.48 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING D	11.20 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	2.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	18.30 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM ALONG NORTH OF BLDG.	9.58 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A	4.32 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL B	6.37 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL C	.45 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL D	1.94 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.86 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	5994.00	7792.20	449.55
CONCRETE SLAB DEMO	CONCRETE SLABS	10.19 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	16.15 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	13.67 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	22.11 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	40.87 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	30.56 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	88.45 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	2569.42	3340.24	192.71
CONCRETE SLAB DEMO	N END NEW 8" SLAB	22.30 CUYD			.00	
CONCRETE SLAB DEMO	N END NEW 8" SLAB	18.30 CUYD			.00	
CONCRETE SLAB DEMO	NW END CONCRETE PAD	5.33 CUYD			.00	
CONCRETE SLAB DEMO	SLAB @ NORTH END	12.72 CUYD			.00	
CONCRETE SLAB DEMO	SLAB @ NOTH WEST CORNER	4.47 CUYD			.00	
CONCRETE SLAB DEMO	SOUTH END CONCRETE PAD	.44 CUYD			.00	
CONCRETE SLAB DEMO	SOUTH END CONCRETE PAD	31.60 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	6200.00	8060.00	170.50
MASONRY WALL DEMO	MASONRY WALLS	2851.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	724.60 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	2157.60 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	932.10 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1093.60 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1541.10 SQFT			579.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	62.25	249.00	.14
PIPING DEMO	INSULATION	746.99 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	37.94	45.53	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	237.12 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	2.21	4.42	.07
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	160.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	155.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	4" ELECTRICAL CONDUIT	90.00 LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1050.00	1260.00	2.36
INSULATION DEMO	INSULATION (RIGID)	6300.00 SQFT			579.00	

Source: 37 PILOT PLANT ANNEX Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	199.18	239.02	.30
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	237.12 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	525.00	1050.00	18.90
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	6300.00 SQFT			579.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	60.00	120.00	1.20
WINDOW DEMO	WINDOWS	360.00 SQFT			579.00	

Source: 38A PROPANE STORAGE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	10.80	180.36	2.65
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS			586.00	
ROOF FRAMING DEMO	METAL DECKING	.65 TONS			586.00	
DOORS	DOORS	ABOVE GRADE	B	16.67	33.33	.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	100.00 SQFT			586.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	7.30	14.60	1.23
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			586.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.80	17.60	.96
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	149.38 LNFT			586.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	34.00	68.00	.21
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			586.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	17.10	59.85	.78
EQUIPMENT DEMO	PROCESS EQUIPMENT	19.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	20.02	40.05	2.26
PIPING DEMO	2" DIAMETER & LESS	849.83 LNFT			586.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	75.30	150.60	5.39
PIPING DEMO	2-1/2" TO 4" DIAMETER	798.93 LNFT			586.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	226.13	452.27	9.99
PIPING DEMO	OVER 4" DIAMETER	599.84 LNFT			586.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.90	6.65	.09
EQUIPMENT DEMO	PROCESS EQUIPMENT	19.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	2.22	4.45	.25
PIPING DEMO	2" DIAMETER & LESS	849.83 LNFT			586.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	8.37	16.73	.60
PIPING DEMO	2-1/2" TO 4" DIAMETER	798.93 LNFT			586.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	25.13	50.25	1.11
PIPING DEMO	OVER 4" DIAMETER	599.84 LNFT			586.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	621.00	807.30	46.58
CONCRETE WALL DEMO	CONCRETE WALLS/SLAB	23.00 CUYD			586.00	
CONCRETE	CONCRETE	BELOW GRADE	E	480.00	624.00	36.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'X4'	17.78 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	741.67	964.17	55.62
CONCRETE EQUIPMENT FNDN DEMO	COMPRESSOR PAD SLAB	.31 CUYD			.00	
CONCRETE FOOTING DEMO	WALL FOUNDATION/FOOTING	27.16 CUYD			.00	

000319

Source: 38A PROPANE STORAGE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	379.50	493.35	28.46
CONCRETE SLAB DEMO	SLAB AT GRADE	14.06 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	800.00	1040.00	22.00
MASONRY WALL DEMO	MASONRY WALLS	1200.00 SQFT			586.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	E	51.21	212.85	.12
PIPING DEMO	INSULATION	638.55 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	E	40.22	48.26	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	251.35 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.76	1.53	.02
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	140.00 LNFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	211.13	253.36	.32
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	251.35 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	63.33	126.67	2.28
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	760.00 SQFT			586.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	13.33	26.67	.27
WINDOW DEMO	WINDOWS	80.00 SQFT			586.00	

Source: 38B CYLINDER FILLING STATION Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1.63	27.27	.40
MISC. STEEL DEMO	MISC. ANGLES	.40 TONS			585.17	
DOORS	DOORS	ABOVE GRADE	B	6.67	13.33	.13
EXT DOOR DEMO	EXT DOORS (MAN & OH)	40.00 SQFT			585.17	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.13	.26	.02
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			585.17	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	4.00	8.00	.03
ELECTRICAL DEMO	ELECTRICAL FIXTURES	2.00 EACH			585.17	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2001.00	7003.50	50.55
EQUIPMENT DEMO	PROCESS EQUIPMENT	2001.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	9.16	18.32	1.03
PIPING DEMO	2" DIAMETER & LESS	349.83 LNFT			585.17	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.35	2.71	.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	12.93 LNFT			585.17	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.67	1.34	.17
METAL WALL PANEL DEMO	EXT. METAL PANELS	300.00 SQFT			585.17	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.22	.45	.06
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	100.00 SQFT			585.17	
CONCRETE	CONCRETE SLABS	AT GRADE	E	139.66	181.55	10.47
CONCRETE SLAB DEMO	DRAIN PIPE 8" SLAB AT GRADE	1.65 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.11 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.17 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.74 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.19 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	1.76 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	.56 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.02	16.06	.01
PIPING DEMO	INSULATION	48.19 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	53.11	63.74	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	331.97 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	278.85	334.62	.42
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	331.97 CUFT			.00	

000321

Source: 39A INCINERATOR BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	185.97	3105.72	45.56
COLUMN DEMO	W10 X 33 MEMBERS	.76 TONS			580.00	
COLUMN DEMO	W12 X 27 MEMBERS	.86 TONS			580.00	
COLUMN DEMO	W14 X 43 MEMBERS	4.64 TONS			580.00	
COLUMN DEMO	W8 X 31 MEMBERS	.50 TONS			580.00	
WALL FRAMING	C-CHANNEL FRAMING	4.80 TONS			580.00	
WALL FRAMING	C-CHANNEL FRAMING	4.25 TONS			580.00	
WALL FRAMING	MISC. ANGLES	.79 TONS			580.00	
WALL FRAMING	MISC. ANGLES	.30 TONS			580.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.93 TONS			596.00	
FLOOR FRAMING	C-CHANNEL FRAMING	.13 TONS			596.00	
FLOOR FRAMING	LIGHT FLOOR PLATE	.71 TONS			596.00	
FLOOR FRAMING	STAIR FRAMING	2.50 TONS			596.00	
FLOOR FRAMING	W12 X 27 MEMBERS	2.63 TONS			596.00	
FLOOR FRAMING	W14 X 30 MEMBERS	.68 TONS			596.00	
FLOOR FRAMING	W14 X 34 MEMBERS	.26 TONS			596.00	
FLOOR FRAMING	W14 X 43 MEMBERS	.32 TONS			596.00	
FLOOR FRAMING	W16 X 36 MEMBERS	1.13 TONS			596.00	
FLOOR FRAMING	W16 X 40 MEMBERS	1.20 TONS			596.00	
FLOOR FRAMING	W18 X 50 MEMBERS	3.13 TONS			596.00	
FLOOR FRAMING	W21 X 62 MEMBERS	.65 TONS			596.00	
FLOOR FRAMING	W21 X 62 MEMBERS	.47 TONS			596.00	
FLOOR FRAMING	W27 X 94 MEMBERS	.94 TONS			596.00	
FLOOR FRAMING	W8 X 13 MEMBERS	.12 TONS			596.00	
FLOOR FRAMING	W8 X 17 MEMBERS	.50 TONS			596.00	
FLOOR FRAMING	W8 X 24 MEMBERS	.18 TONS			596.00	
ROOF FRAMING	C-CHANNEL FRAMING	.43 TONS			596.00	
ROOF FRAMING	MISC. ANGLES	.76 TONS			596.00	
ROOF FRAMING	W12 X 27 MEMBERS	1.08 TONS			596.00	
ROOF FRAMING	W8 X 10 MEMBERS	.90 TONS			596.00	
ROOF FRAMING	C-CHANNEL FRAMING	1.10 TONS			617.83	
ROOF FRAMING	C-CHANNEL FRAMING	.44 TONS			617.83	
ROOF FRAMING	MISC STEEL	.30 TONS			617.83	
ROOF FRAMING	MISC. ANGLES	.51 TONS			617.83	
ROOF FRAMING	MISC. ANGLES	1.15 TONS			617.83	
ROOF FRAMING	W12 X 27 MEMBERS	.54 TONS			617.83	
ROOF FRAMING	W14 X 43 MEMBERS	2.75 TONS			617.83	
ROOF FRAMING	W8 X 10 MEMBERS	1.62 TONS			617.83	
ROOF FRAMING	W8 X 10 MEMBERS	.60 TONS			617.83	
DOORS	DOORS	ABOVE GRADE	B	16.67	33.33	.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	100.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	7.30	14.60	1.23
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	3.22	6.44	.35
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	54.69 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	72.00	144.00	.45
ELECTRICAL DEMO	ELECTRICAL FIXTURES	36.00 EACH			580.00	

Source: 39A INCINERATOR BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	80.00	160.00	2.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	8.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.13
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	5.40	18.90	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2.70	9.45	.03
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	16.49	32.97	1.06
PIPING DEMO	2" DIAMETER & LESS	699.66 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	77.65	155.30	5.56
PIPING DEMO	2-1/2" TO 4" DIAMETER	823.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	56.53	113.06	2.50
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.40	1.40	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.60	2.10	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	.30	1.05	.00
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.40	1.40	.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.83	3.66	.21
PIPING DEMO	2" DIAMETER & LESS	699.66 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	8.63	17.26	.62
PIPING DEMO	2-1/2" TO 4" DIAMETER	823.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	6.28	12.56	.28
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1182.66	1537.46	88.70
CONCRETE FOOTING DEMO	FOOTINGS A2,A3	1.48 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A4,A1	1.13 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS B2,B3	3.24 CUYD			.00	

000323

Source: 39A INCINERATOR BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE FOOTING DEMO	FOOTINGS B4	1.20 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS C1	1.66 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS C1,D1, D4	4.20 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS C2,C3	3.82 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS C4	1.04 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS D2,D3	4.21 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM (1 SIDE)	6.02 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM (3 SIDES)	14.07 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS A1,A4	.09 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS A2,A3	.19 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS B1,B4	.27 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS B2,B3	.54 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS C1,C4	.23 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS D1,D4	.14 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS D2,D3	.27 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	1298.70	1688.21	97.40
CONCRETE SLAB DEMO	CONCRETE SLABS	11.60 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	4.20 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	23.20 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	9.10 CUYD		.00		
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	86.67	112.67	6.07
FIRE BRICK DEMO	FIRE BRICK WITHIN STACK	260.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	309.90	371.87	17.43
EXT TRANSITE DEMO	EXT TRANSITE PANELS	8500.00 SQFT		580.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	62.50	75.00	3.45
INT TRANSITE DEMO	INT TRANSITE PANELS	3000.00 SQFT		580.00		
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	109.37	131.25	6.15
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	3000.00 SQFT		580.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	32.13	128.51	.07
PIPING DEMO	INSULATION	385.54 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	62.22	74.66	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	388.88 CUFT		.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	500.00	600.00	1.13
INSULATION DEMO	INSULATION (BAT)	3000.00 SQFT		580.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	326.66	391.99	.49
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	388.88 CUFT		.00		
WINDOWS	WINDOWS	ABOVE GRADE	I	180.00	360.00	3.60
WINDOW DEMO	WINDOWS	1080.00 SQFT		580.00		

Source: 39B WASTE OIL DECANT SHELTER Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.49	408.98	6.00
COLUMN DEMO	W18 X 40 MEMBERS	2.00 TONS			579.33	
ROOF FRAMING DEMO	W18 X 45 MEMBERS	4.00 TONS			579.33	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.67	1.33	.11
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			579.33	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.58	1.16	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	9.84 LNFT			579.33	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			579.33	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	.90	3.15	.03
EQUIPMENT DEMO	PROCESS EQUIPMENT	1.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	3.53	7.06	.40
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			579.33	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	.38	.75	.03
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00 LNFT			579.33	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	1.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.39	.78	.04
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			579.33	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.04	.08	.00
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00 LNFT			579.33	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	1.56	3.12	.39
METAL WALL PANEL DEMO	EXT. METAL PANELS	700.00 SQFT			579.33	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.56	3.12	.39
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	700.00 SQFT			579.33	
CONCRETE	CONCRETE	BELOW GRADE	E	6394.50	8312.85	479.59
CONCRETE CURBING DEMO	CURBING	235.67 CUYD			.00	
CONCRETE SUMP DEMO	SUMP	1.17 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	73.28	95.27	5.50
CONCRETE FOOTING DEMO	FOOTINGS	2.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.49 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	264.00	343.20	19.80
CONCRETE SLAB DEMO	SLAB AT GRADE	7.70 CUYD			.00	
CONCRETE SLAB DEMO	THICKEND SLAB AREA	.89 CUYD			.00	
CONCRETE SLAB DEMO	THICKEND SLAB AREA	.89 CUYD			.00	

Source: 39B WASTE OIL DECANT SHELTER Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE SLAB DEMO	THICKEND SLAB AREA	.30 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	12.14	14.57	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	75.88 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	63.74	76.49	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	75.88 CUFT			.00	

Source: 39C INCINERATOR SPRINKLER RISER HOUSE Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2.30	38.43	.56
ROOF FRAMING DEMO	METAL DECKING	.06 TONS			580.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	.50 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	5.00	10.00	.10
EXT DOOR DEMO	EXT DOORS (MAN & OH)	30.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	32.64	65.28	2.71
ELECTRICAL DEMO	CABLE TRAYS	199.49 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	220.00	440.00	1.38
ELECTRICAL DEMO	ELECTRICAL FIXTURES	110.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	54.90	192.15	1.12
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	61.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	.90	3.15	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.70	1.41	.08
PIPING DEMO	2" DIAMETER & LESS	29.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.41	2.81	.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	6.10	21.35	.12
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	61.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	1.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.08	.16	.01
PIPING DEMO	2" DIAMETER & LESS	29.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.16	.31	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT			580.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	40.50	52.65	3.04
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	1.50 CUYD			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	28.89	37.56	2.17
CONCRETE EQUIPMENT FNDN DEMO	FOUNDATION	1.07 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	5.54	7.20	.42
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE PAD	.21 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	28.89	37.56	2.17
CONCRETE SLAB DEMO	SLAB AT GRADE	1.07 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	200.00	260.00	5.50
MASONRY WALL DEMO	MASONRY WALLS	300.00 SQFT			580.00	

Source: 39C INCINERATOR SPRINKLER RISER HOUSE Component Category: 4

7558

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.00	4.02	.00
PIPING DEMO	INSULATION	12.05 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	15.93	19.12	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	99.59 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	83.66	100.39	.13
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	99.59 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	6.25	12.50	.23
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	75.00 SQFT			580.00	

000328

Source: 39D SEWAGE TREATMENT PLANT INCINERATOR Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	9.71	162.23	2.38
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.57 TONS			595.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.30 TONS			595.00	
MISC. STEEL DEMO	W8 X 17 MEMBERS	.51 TONS			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.14	6.28	.53
ELECTRICAL DEMO	2" DIAMETER & LESS	480.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			595.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	21.50	75.25	.13
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	21.50 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	600.00	2100.00	.50
EQUIPMENT DEMO	HVAC EQUIPMENT	600.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1.05	2.09	.12
PIPING DEMO	2" DIAMETER & LESS	40.00 LNFT			595.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	6.28	12.57	.45
PIPING DEMO	2-1/2" TO 4" DIAMETER	60.00 LNFT			595.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	2.93	5.86	.13
PIPING DEMO	OVER 4" DIAMETER	7.00 LNFT			595.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	202.50	263.25	15.19
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	7.50 CUYD			595.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	500.00	650.00	37.50
CONCRETE SLAB DEMO	SLAB AT GRADE	18.52 CUYD			.00	
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	149.33	194.13	10.45
FIRE BRICK DEMO	FIRE BRICK ON INCINERTOR GROUND FLOOR	448.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	27.71	33.25	1.56
EXT TRANSITE DEMO	EXT TRANSITE PANELS	760.00 SQFT			595.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	11.67	14.00	.66
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	320.00 SQFT			595.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.05	8.20	.00
PIPING DEMO	INSULATION	24.61 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	21.25	25.50	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	111.54	133.85	.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	

Source: 3A MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	95.51	1595.02	23.40
COLUMN DEMO	W8 X 28 MEMBERS	6.80 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.80 TONS			580.00	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	.20 TONS			580.00	
ROOF FRAMING DEMO	W10 X 45 MEMBERS	14.60 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	41.67	83.33	.83
EXT DOOR DEMO	EXT DOORS	250.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	16.19	32.38	2.72
ELECTRICAL DEMO	2" DIAMETER & LESS	649.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1824.55 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	76.00	152.00	.48
ELECTRICAL DEMO	ELECTRICAL FIXTURES	38.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	396.00	1386.00	3.87
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	440.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	48.60	170.10	.81
EQUIPMENT DEMO	HVAC EQUIPMENT	54.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	119.70	418.95	1.17
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	133.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	8011.80	28041.30	52.20
EQUIPMENT DEMO	PROCESS EQUIPMENT	8902.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	14.66	29.31	1.65
PIPING DEMO	2" DIAMETER & LESS	386.10 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	235.93 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	29.64	59.29	2.12
PIPING DEMO	2-1/2" TO 4" DIAMETER	160.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	153.73 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	8.66	17.32	.38
PIPING DEMO	OVER 4" DIAMETER	22.97 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	44.00	154.00	.43
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	440.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	5.40	18.90	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	54.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	13.30	46.55	.13

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	133.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	890.20	3115.70	5.80
EQUIPMENT DEMO	PROCESS EQUIPMENT	8902.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.63	3.26	.18
PIPING DEMO	2" DIAMETER & LESS	386.10 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	235.93 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	3.29	6.59	.24
PIPING DEMO	2-1/2" TO 4" DIAMETER	160.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	153.73 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	.96	1.92	.04
PIPING DEMO	OVER 4" DIAMETER	22.97 LNFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	10.00	20.00	.20
LOUVER DEMO	EXT LOUVERS	60.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	122.67	159.47	9.20
CONCRETE TRENCH DEMO	DRAINAGE TRENCH	4.54 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	7451.70	9687.21	558.88
CONCRETE FOOTING DEMO	FOOTINGS	2.09 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	12.53 CUYD			.00	
CONCRETE FOOTING DEMO	INTERIOR FOOTINGS	4.18 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	248.89 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.18 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (CORNER)	2.37 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (INTERIOR)	1.58 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS (WALL)	3.17 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1800.00	2340.00	135.00
CONCRETE SLAB DEMO	SLAB AT GRADE	66.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	11752.00	15277.60	881.40
CONCRETE SLAB DEMO	EXTENSION TO BLDG SLAB	11.56 CUYD			.00	
CONCRETE SLAB DEMO	EXTERIOR RAMP (SIDE)	14.81 CUYD			.00	
CONCRETE SLAB DEMO	EXTERIOR RAMPS (FRONT)	408.89 CUYD			.00	
TILE	FLOOR TILE	AT GRADE	G	5.85	7.02	.28
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	63.00 SQFT			.00	
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	218.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	145.83	175.00	8.20
EXT TRANSITE DEMO	EXT TRANSITE PANELS	4000.00 SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	161.46	193.75	8.91
INT TRANSITE DEMO	INT TRANSITE PANELS	7750.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	133.07	159.69	7.48
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	3650.00 SQFT			580.00	

Source: 3A MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
INSULATION	PIPING INSULATION	ABOVE GRADE	H	15.06	60.24	.03
PIPING DEMO	INSULATION	180.72 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	69.05	82.86	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	431.56 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1275.00	1530.00	2.87
INSULATION DEMO	INSULATION (BAT)	7650.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	362.51	435.01	.55
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	431.56 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	90.00	180.00	1.80
WINDOW DEMO	WINDOWS	540.00 SQFT			580.00	

Source: 3B OZONE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE		A	30.61	511.22	7.50
COLUMN DEMO	W8 X 28 MEMBERS	2.00 TONS				579.50	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.10 TONS				579.50	
ROOF FRAMING DEMO	W10 X 45 MEMBERS	4.40 TONS				579.50	
DOORS	DOORS	ABOVE GRADE		B	11.67	23.33	.23
EXT DOOR DEMO	EXT DOORS	70.00 SQFT				579.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE		B	1.73	3.45	.29
ELECTRICAL DEMO	2" DIAMETER & LESS	263.64 LNFT				579.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE		B	2.39	4.79	.26
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	40.63 LNFT				579.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE		B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH				579.50	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE		B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH				.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE		B	1.80	6.30	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT				.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE		B	2.95	5.89	.33
PIPING DEMO	2" DIAMETER & LESS	125.08 LNFT				579.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		B	.75	1.51	.05
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				579.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE		B	6.03	12.06	.27
PIPING DEMO	OVER 4" DIAMETER	16.00 LNFT				579.50	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE		C	.20	.70	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT				.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE		C	.33	.65	.04
PIPING DEMO	2" DIAMETER & LESS	125.08 LNFT				579.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		C	.08	.17	.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	8.00 LNFT				579.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE		C	.67	1.34	.03
PIPING DEMO	OVER 4" DIAMETER	16.00 LNFT				579.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE		E	983.63	1278.72	73.77
CONCRETE FOOTING DEMO	FOOTINGS	1.75 CUYD				.00	
CONCRETE FOUNDATION DEMO	SECTION A-A	23.63 CUYD				.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.87 CUYD				.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.26 CUYD				.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.92 CUYD				.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	456.58	593.56	34.24

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Source: 3B OZONE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	RAISED PAD AT GRADE	.05 CUYD			.00	
CONCRETE SLAB DEMO	RAISED PAD AT GRADE	.05 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	16.81 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	78.75	94.50	4.43
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2160.00 SQFT			579.50	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	40.10	48.12	2.26
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1100.00 SQFT			579.50	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	34.15	40.97	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	213.41 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	179.26	215.12	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	213.41 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	13.33	26.67	.27
WINDOW DEMO	WINDOWS	80.00 SQFT			579.50	

Source: 3C NAR CONTROL HOUSE Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	71.43	1192.86	17.50
COLUMN DEMO	W8 X 28 MEMBERS	5.25 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.45 TONS			580.00	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	.30 TONS			580.00	
ROOF FRAMING DEMO	W10 X 45 MEMBERS	10.50 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	3.00	50.10	.74
SHEET METAL PILING DEMO	SHEET METAL PILING ALONG WEST SIDE	.74 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	30.00	60.00	.60
EXT DOOR DEMO	EXT DOORS	180.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	11.28	22.56	1.90
ELECTRICAL DEMO	2" DIAMETER & LESS	1723.64 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	52.75	105.49	5.73
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	895.47 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	19.33	38.67	1.61
ELECTRICAL DEMO	OVER 4" DIAMETER	118.16 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	68.00	136.00	.43
ELECTRICAL DEMO	ELECTRICAL FIXTURES	34.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	354.00	1239.00	3.50
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	354.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	44.00	154.00	.80
EQUIPMENT DEMO	HVAC EQUIPMENT	44.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	107.00	374.50	1.00
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	107.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	7171.00	25098.50	46.70
EQUIPMENT DEMO	PROCESS EQUIPMENT	7171.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.85	15.71	.88
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	58.56	117.12	4.19
PIPING DEMO	2-1/2" TO 4" DIAMETER	559.20 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	58.62	117.24	2.59
PIPING DEMO	OVER 4" DIAMETER	139.95 LNFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	981.31	1275.71	73.60
CONCRETE FOOTING DEMO	COLUMN	3.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	7.29 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	22.81 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS	3.23 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1296.00	1684.80	97.20
CONCRETE SLAB DEMO	SLAB AT GRADE	48.00 CUYD			.00	
TILE	FLOOR TILE	AT GRADE	G	41.67	50.00	2.00
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	2000.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	128.70	154.44	7.24
EXT TRANSITE DEMO	EXT TRANSITE PANELS	3530.00 SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	147.92	177.50	8.17
INT TRANSITE DEMO	INT TRANSITE PANELS	7100.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	130.34	156.41	7.33
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	3575.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	21.08	84.34	.05
PIPING DEMO	INSULATION	253.01 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	68.29	81.95	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	426.82 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1183.33	1420.00	2.66
INSULATION DEMO	INSULATION (BAT)	7100.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	358.53	430.23	.54
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	426.82 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	95.00	190.00	1.90
WINDOW DEMO	WINDOWS	570.00 SQFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	380.42	6352.95	93.20
COLUMN DEMO	W10 X 39 MEMBERS	8.93 TONS			580.50	
COLUMN DEMO	W10 X 39 MEMBERS	2.24 TONS			580.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.28 TONS			591.67	
FLOOR FRAMING DEMO	MISC. ANGLES	.87 TONS			591.67	
FLOOR FRAMING DEMO	STAIR FRAMING	8.66 TONS			591.67	
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	.82 TONS			591.67	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	24.00 TONS			591.67	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	5.72 TONS			591.67	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	4.72 TONS			591.67	
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	5.47 TONS			591.67	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	.65 TONS			591.67	
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	.75 TONS			591.67	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.76 TONS			591.67	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.32 TONS			592.33	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.23 TONS			592.33	
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	.56 TONS			592.33	
FLOOR FRAMING DEMO	W12 X 22 MEMBERS	.10 TONS			592.33	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.54 TONS			592.33	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.30 TONS			592.33	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.36 TONS			592.33	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	1.35 TONS			592.33	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	.50 TONS			592.33	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.14 TONS			592.33	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.58 TONS			603.67	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.15 TONS			603.67	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.21 TONS			603.67	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.81 TONS			603.67	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.27 TONS			603.67	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.72 TONS			603.67	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	.48 TONS			603.67	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	3.04 TONS			603.67	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.16 TONS			615.67	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.11 TONS			615.67	
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	.34 TONS			615.67	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.36 TONS			615.67	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.35 TONS			627.67	
EXT WALL FRMNG DEMO	MISC. ANGLES	.20 TONS			627.67	
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	14.55 TONS			627.67	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	.08 TONS			627.67	
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	.34 TONS			627.67	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.36 TONS			627.67	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	.40 TONS			627.67	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	.90 TONS			627.67	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	.50 TONS			627.67	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	117.23	234.46	19.70
ELECTRICAL DEMO	2" DIAMETER & LESS	4328.18 LNFT			580.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			580.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	1186.36 LNFT			580.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	4561.82 LNFT			580.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	3000.00 LNFT			580.50	

Source: 3D NAR TOWERS Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	1743.64 LNFT			580.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	446.36 LNFT			603.67	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			603.67	
ELECTRICAL DEMO	2" DIAMETER & LESS	1510.91 LNFT			603.67	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			640.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			640.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	18.76	37.52	2.04
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	318.44 LNFT			603.67	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	138.00	276.00	.86
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			580.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			580.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	19.00 EACH			603.67	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			640.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	180.00	360.00	4.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	18.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1865.00	6527.50	18.40
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1865.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	230.00	805.00	4.00
EQUIPMENT DEMO	HVAC EQUIPMENT	230.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	564.00	1974.00	5.40
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	564.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	37760.00	132160.00	246.10
EQUIPMENT DEMO	PROCESS EQUIPMENT	37760.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	149.58	299.16	16.85
PIPING DEMO	2" DIAMETER & LESS	694.58 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	1189.83 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	595.93 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	601.02 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	207.80 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	270.85 LNFT			580.50	
PIPING DEMO	2" DIAMETER & LESS	2153.56 LNFT			580.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	203.11	406.23	14.55
PIPING DEMO	2-1/2" TO 4" DIAMETER	181.73 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	224.80 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	349.60 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	286.67 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	517.33 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	340.53 LNFT			580.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			580.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	1011.33	2022.66	44.67

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	755.78 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	82.97 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	125.95 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	453.89 LNFT		580.50		
PIPING DEMO	OVER 4" DIAMETER	938.76 LNFT		580.50		
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	1.67	3.34	.41
METAL WALL PANEL DEMO	EXT. METAL PANELS	750.00 SQFT		580.50		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	508.44	660.98	38.13
CONCRETE FOOTING DEMO	FOOTINGS	9.78 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	9.05 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	2450.00	3185.00	183.75
CONCRETE SLAB DEMO	SLAB AT GRADE	90.74 CUYD		.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	17.92	21.50	.99
INT TRANSITE DEMO	INT TRANSITE PANELS	860.00 SQFT		580.50		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	209.84	839.36	.47
PIPING DEMO	INSULATION	2518.07 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	121.41	145.69	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	758.78 CUFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	637.38	764.85	.96
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	758.78 CUFT		.00		

Source: 3E HOT RAFFINATE BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE		A	195.06	3257.45	47.79
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	14.85 TONS				580.00	
MISC. STEEL DEMO	MISC. ANGLES	1.41 TONS				580.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	3.64 TONS				588.50	
FLOOR FRAMING DEMO	MISC STEEL	.92 TONS				588.50	
FLOOR FRAMING DEMO	W12 X 22 MEMBERS	1.80 TONS				588.50	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.61 TONS				588.50	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.31 TONS				588.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	1.13 TONS				588.50	
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	2.30 TONS				588.50	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	3.84 TONS				588.50	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	.58 TONS				588.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	3.92 TONS				610.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.11 TONS				610.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.80 TONS				610.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.45 TONS				610.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	.71 TONS				610.00	
ROOF FRAMING DEMO	W10 X 15 MEMBERS	.41 TONS				610.00	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	1.05 TONS				610.00	
ROOF FRAMING DEMO	W16 X 40 MEMBERS	2.37 TONS				610.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	4.30 TONS				610.00	
ROOF FRAMING DEMO	WT6 X 18 MEMBERS	.31 TONS				610.00	
DOORS	DOORS	ABOVE GRADE		B	37.50	75.00	.75
EXT DOOR DEMO	EXT DOORS (MAN & OH)	225.00 SQFT				580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE		B	76.84	153.68	12.91
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2331.82 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	5575.45 LNFT				580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	649.09 LNFT				597.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	446.36 LNFT				610.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE		B	20.52	41.03	2.23
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT				580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	149.38 LNFT				597.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE		B	212.00	424.00	1.33
ELECTRICAL DEMO	ELECTRICAL FIXTURES	54.00 EACH				580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	29.00 EACH				597.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	23.00 EACH				610.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE		B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH				.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE		B	110.00	220.00	2.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	11.00 EACH				.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE		B	1013.40	3546.90	9.99
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1126.00 CUFT				.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	125.10	417.85	2.16
EQUIPMENT DEMO	HVAC EQUIPMENT	139.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	306.90	1074.15	2.97
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	341.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	20519.10	71816.85	133.74
EQUIPMENT DEMO	PROCESS EQUIPMENT	22799.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	102.65	205.30	11.57
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	160.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	54.92 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	484.07 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	448.81 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	386.78 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	929.49 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	980.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	95.93 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	131.86 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	176.95 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	377.97 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	99.95	199.91	7.16
PIPING DEMO	2-1/2" TO 4" DIAMETER	383.47 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	181.73 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	118.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	130.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	107.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	146.23	292.46	6.46
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	18.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	62.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	20.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	120.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	36.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	68.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	112.60	394.10	1.11
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1126.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	13.90	48.65	.24
EQUIPMENT DEMO	HVAC EQUIPMENT	139.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	34.10	119.35	.33
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	341.00 CUFT			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	2279.90	7979.65	14.86
EQUIPMENT DEMO	PROCESS EQUIPMENT	22799.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	11.41	22.81	1.29
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	160.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	54.92 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	484.07 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	448.81 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	386.78 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	120.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	929.49 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	980.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	95.93 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	131.86 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	176.95 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	377.97 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	11.11	22.21	.80
PIPING DEMO	2-1/2" TO 4" DIAMETER	383.47 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	181.73 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	118.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	130.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	107.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	16.25	32.50	.72
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	18.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	62.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	20.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	120.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	36.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	68.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	11.02	22.05	3.04
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	682.91 SQFT			597.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	997.81 SQFT			597.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	531.63 SQFT			597.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	6.00	12.00	.12
LOUVER DEMO	EXT LOUVERS	36.00 SQFT			580.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	121.50	157.95	9.11
FLOOR FRAMING DEMO	MISC. CONCRETE ITEMS	4.50 CUYD			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	6848.00	8902.40	513.60
CONCRETE CURBING DEMO	CURBING	253.63 CUYD			.00	

Source: 3E HOT RAFFINATE BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	175.50	228.15	13.16
FLOOR FRAMING DEMO	CONCRETE COLUMNS	6.50 CUYD			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	4424.70	5752.11	331.85
CONCRETE FOOTING DEMO	FOOTING A&H	3.56 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B	12.52 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C	18.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING D	29.53 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING E	10.70 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F	62.22 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F&G	5.33 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING K	11.85 CUYD			.00	
CONCRETE FOOTING DEMO	OTHER FOOTINGS	7.26 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F1 301,2,3	1.35 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F1-308&309,312,313	.89 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F1-320	.41 CUYD			.00	
CONCRETE PEDESTAL DEMO	PLATFORM COLUMN	.25 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	324.00	421.20	24.30
CONCRETE SLAB DEMO	CONCRETE SLABS	12.00 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2692.67	3500.47	201.95
CONCRETE SLAB DEMO	SLAB AT GRADE	9.85 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	89.88 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	5319.00	6914.70	398.93
FLOOR FRAMING DEMO	CONCRETE WALLS	197.00 CUYD			580.00	
CONCRETE	ACID BRICK	AT GRADE	F	248.00	322.40	17.36
ACID BRICK DEMO	ACID BRICK IN FILTER PROCESS	744.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	441.15	529.37	24.81
EXT TRANSITE DEMO	EXT TRANSITE PANELS	12100.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	102.08	122.50	5.74
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	2800.00 SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	18.44	73.75	.04
HVAC DEMO	INSULATION	221.24 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	87.35	349.40	.20
PIPING DEMO	INSULATION	1048.19 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	122.92	147.51	.19
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	768.27 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	225.00	450.00	3.38
MISC. MATERIAL DEMO	MISC. DEBRIS	225.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	645.35	774.41	.98
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	768.27 CUFT			.00	

Source: 3E HOT RAFFINATE BUILDING Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
WINDOWS	WINDOWS	ABOVE GRADE	I	57.50	115.00	1.15
WINDOW DEMO	WINDOWS	345.00 SQFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	122.43	2044.56	30.00
COLUMN DEMO	W8 X 31 MEMBERS	.81 TONS			579.58	
COLUMN DEMO	W8 X 35 MEMBERS	1.26 TONS			579.58	
COLUMN DEMO	W8 X 40 MEMBERS	1.44 TONS			579.58	
STAIR FRAMING DEMO	STAIR FRAMING	2.50 TONS			579.58	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.26 TONS			592.75	
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	1.05 TONS			592.75	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.48 TONS			592.75	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	1.90 TONS			592.75	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	3.66 TONS			592.75	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.75 TONS			592.75	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	.17 TONS			592.75	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	.37 TONS			592.75	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.63 TONS			605.92	
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	1.52 TONS			605.92	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.17 TONS			605.92	
FLOOR FRAMING DEMO	W12 X 36 MEMBERS	.85 TONS			605.92	
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	.77 TONS			605.92	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	1.90 TONS			605.92	
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	3.66 TONS			605.92	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.54 TONS			605.92	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	.88 TONS			605.92	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.57 TONS			615.83	
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	1.03 TONS			615.83	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.00 TONS			615.83	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.31 TONS			615.83	
FLOOR FRAMING DEMO	W8 X 28 MEMBERS	.53 TONS			615.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	19.51	39.02	3.28
ELECTRICAL DEMO	2" DIAMETER & LESS	243.64 LNFT			579.58	
ELECTRICAL DEMO	2" DIAMETER & LESS	2737.27 LNFT			579.58	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	32.00	64.00	.20
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00 EACH			605.92	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1008.00	3528.00	8.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	1008.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	27.71	55.41	3.12
PIPING DEMO	2" DIAMETER & LESS	321.02 LNFT			579.58	
PIPING DEMO	2" DIAMETER & LESS	457.97 LNFT			579.58	
PIPING DEMO	2" DIAMETER & LESS	64.07 LNFT			579.58	
PIPING DEMO	2" DIAMETER & LESS	215.25 LNFT			579.58	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	11.30	22.59	.81
PIPING DEMO	2-1/2" TO 4" DIAMETER	48.93 LNFT			579.58	
PIPING DEMO	2-1/2" TO 4" DIAMETER	58.93 LNFT			579.58	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	31.83	63.67	1.41

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			579.58	
PIPING DEMO	OVER 4" DIAMETER	28.00 LNFT			579.58	
PIPING DEMO	OVER 4" DIAMETER	14.00 LNFT			579.58	
PIPING DEMO	OVER 4" DIAMETER	28.00 LNFT			579.58	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.59	1.18	.16
HVAC DEMO	DUCTWORK DEMO (ROUND)	69.09 SQFT			579.58	
HVAC DEMO	DUCTWORK DEMO (ROUND)	49.45 SQFT			579.58	
CONCRETE	CONCRETE	BELOW GRADE	E	184.50	239.85	13.84
CONCRETE CURBING DEMO	CURBING ESTIMATED	6.83 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	171.48	222.93	12.86
CONCRETE FOOTING DEMO	FOOTING A-1,2	.46 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B-1,2	3.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C-1,2	1.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	COLUMN A-1, C-1	.57 CUYD			.00	
CONCRETE PEDESTAL DEMO	COLUMN A-2,B-12,6-2	.71 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	418.53	544.09	31.39
CONCRETE SLAB DEMO	SLAB AT GRADE	15.50 CUYD			.00	
CONCRETE	ACID BRICK	AT GRADE	F	266.67	346.67	18.67
ACID BRICK DEMO	ACID BRICK IN HARSHAW FUME RECOVERY	800.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	.99	3.95	.00
HVAC DEMO	INSULATION	11.85 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	17.07	68.27	.04
PIPING DEMO	INSULATION	204.82 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	37.18	44.62	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	232.38 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	195.20	234.24	.30
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	232.38 CUFT			.00	

Source: 3G REFRIGERATION BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	20.82	347.63	5.10
COLUMN DEMO	W12 X 27 MEMBERS	1.50 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.80 TONS			580.00	
ROOF FRAMING DEMO	W14 X 38 MEMBERS	2.80 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	2.50	41.75	.61
SHEET METAL PILING DEMO	SHEET METAL PILING SOUTHLAND ROAD	.61 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	15.00	30.00	.30
EXT DOOR DEMO	EXT DOORS (MAN & OH)	90.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.99	1.99	.17
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	865.80	3030.30	16.44
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	962.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	4.50	15.75	.07
EQUIPMENT DEMO	HVAC EQUIPMENT	5.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1.65	3.31	.19
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.71	9.42	.34
PIPING DEMO	2-1/2" TO 4" DIAMETER	50.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	5.64	11.29	.25
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	96.20	336.70	1.83
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	962.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.50	1.75	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	5.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.18	.37	.02
PIPING DEMO	2" DIAMETER & LESS	70.17 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.52	1.05	.04
PIPING DEMO	2-1/2" TO 4" DIAMETER	50.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	.63	1.25	.03
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			580.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.56	1.13	.20
LEAD FLASHING DEMO	LEAD FLASHING	400.00 LBS			580.00	

000347

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
LOUVERS	LOUVERS	ABOVE GRADE	D	5.00	10.00	.10
LOUVER DEMO	EXT LOUVERS	30.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	495.20	643.76	37.14
CONCRETE FOOTING DEMO	FOOTINGS	1.93 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.38 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.42 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.35 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.55 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.13 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	352.00	457.60	26.40
CONCRETE SLAB DEMO	SLAB AT GRADE	13.04 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	56.87	68.25	3.20
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1560.00 SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	47.92	57.50	2.65
INT TRANSITE DEMO	INT TRANSITE PANELS	2300.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	25.52	30.62	1.44
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	700.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	28.08	33.69	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	175.47 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	383.33	460.00	.66
INSULATION DEMO	INSULATION (BAT)	2300.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	147.39	176.87	.22
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	175.47 CUFT			.00	

Source: 3H REFINERY SUMP Component Category: 5

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	64.90	1083.80	15.90
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	4.60 TONS			580.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	2.50 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	8.80 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	31.85	61.70	5.35
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			590.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	21.10	42.19	2.29
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	358.13 LNFT			596.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	72.00	144.00	.45
ELECTRICAL DEMO	ELECTRICAL FIXTURES	19.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			590.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	6.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	585.00	2047.50	5.80
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	585.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	72.00	252.00	1.30
EQUIPMENT DEMO	HVAC EQUIPMENT	72.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	177.00	619.50	1.70
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	177.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	11832.00	41412.00	77.10
EQUIPMENT DEMO	PROCESS EQUIPMENT	11832.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	77.16	154.33	8.69
PIPING DEMO	2" DIAMETER & LESS	2947.46 LNFT			596.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	157.78	315.56	11.30
PIPING DEMO	2-1/2" TO 4" DIAMETER	1506.67 LNFT			596.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	156.00	202.80	11.70
CONCRETE FOOTING DEMO	FOOTING K	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING L	.59 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING M	4.00 CUYD			.00	
CONCRETE	ACID BRICK	AT GRADE	F	853.33	1109.33	59.73
ACID BRICK DEMO	ACID BRICK IN WASTE WATER TREATMENT	2560.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	65.26	261.04	.15
PIPING DEMO	INSULATION	783.13 SQFT			.00	

000349

Source: 3H REFINERY SUMP Component Category: 5

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	70.57	84.68	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	441.04 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	370.48	444.57	.56
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	441.04 CUFT			.00	

000350

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	100.41	1676.82	24.60
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	6.60 TONS			580.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	3.60 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	14.40 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	67.01	134.02	11.26
ELECTRICAL DEMO	2" DIAMETER & LESS	5068.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	902.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	689.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			596.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1145.45 LNFT			596.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1621.82 LNFT			596.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	42.78	85.56	4.65
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	298.44 LNFT			595.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	427.81 LNFT			596.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	166.00	332.00	1.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	15.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	18.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			596.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	30.00 EACH			596.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	70.00	140.00	1.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	7.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	737.00	2579.50	7.30
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	737.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	91.00	318.50	1.60
EQUIPMENT DEMO	HVAC EQUIPMENT	91.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	223.00	780.50	2.20
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	223.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14911.00	52188.50	97.20
EQUIPMENT DEMO	PROCESS EQUIPMENT	14911.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	93.33	186.67	10.52
PIPING DEMO	2" DIAMETER & LESS	102.03 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	177.97 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	384.07 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	721.69 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	291.86 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	442.03 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	143.73 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1286.44 LNFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	24.07	48.14	1.72
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	46.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	58.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	70.78	141.56	3.13
PIPING DEMO	OVER 4" DIAMETER	56.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	64.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	48.00 LNFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1422.19	1848.85	106.66
CONCRETE FOOTING DEMO	FOOTING 1-=400,401,402,403,405&407	10.89 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING D	1.88 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING E	1.13 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	31.01 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	7.76 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	3071.00	3992.30	230.33
CONCRETE SLAB DEMO	SLAB AT GRADE	113.74 CUYD			.00	
CONCRETE	ACID BRICK	AT GRADE	F	2197.00	2856.10	153.79
ACID BRICK DEMO	ACID BRICK IN COMBINED RAFFINATE	6591.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	51.20	204.82	.12
PIPING DEMO	INSULATION	614.46 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	86.50	103.80	.13
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	540.63 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	454.13	544.96	.69
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	540.63 CUFT			.00	

Source: 3K OLD COOLING WATER TOWER Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.14	.27	.02
ELECTRICAL DEMO	2" DIAMETER & LESS	21.00 LNFT			579.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			579.50	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	30.00	105.00	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	30.00 CUFT			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	403.00	523.90	30.23
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	.17 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATION	.50 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	14.26 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	256.67	333.67	19.25
CONCRETE SLAB DEMO	SLAB AT GRADE	9.51 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	78.03	101.44	5.85
CONCRETE WALL DEMO	CONCRETE WALLS	2.89 CUYD			579.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	37.18	44.62	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	232.38 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	195.20	234.24	.30
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	232.38 CUFT			.00	

000353

Source: 3L ELECTRICAL POWER CENTER BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	51.03	852.21	12.50
ROOF FRAMING DEMO	METAL DECKING	.21 TONS			580.00	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	12.29 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	18.54	309.65	4.54
SHEET METAL PILING DEMO	SHEET METAL PILING WEST AND NORTH SIDE	4.54 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	70.00	140.00	1.40
EXT DOOR DEMO	EXT DOORS (MAN & OH)	420.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	10.61	21.23	1.78
ELECTRICAL DEMO	2" DIAMETER & LESS	1621.82 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.72	23.43	1.27
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	179.94	359.88	14.96
ELECTRICAL DEMO	OVER 4" DIAMETER	1099.71 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			585.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	240.30	841.05	2.34
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	267.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	29.70	103.95	.54
EQUIPMENT DEMO	HVAC EQUIPMENT	33.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	72.90	255.15	.72
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	81.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4858.20	17003.70	31.68
EQUIPMENT DEMO	PROCESS EQUIPMENT	5398.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	3.06	6.12	.34
PIPING DEMO	2" DIAMETER & LESS	129.83 LNFT			585.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	26.70	93.45	.26
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	267.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	3.30	11.55	.06
EQUIPMENT DEMO	HVAC EQUIPMENT	33.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	8.10	28.35	.08
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	81.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	539.80	1889.30	3.52
EQUIPMENT DEMO	PROCESS EQUIPMENT	5398.00 CUFT			.00	

Source: 3L ELECTRICAL POWER CENTER BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.34	.68	.04
PIPING DEMO	2" DIAMETER & LESS	129.83 LNFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	555.96	722.75	41.70
CONCRETE FOOTING DEMO	FOOTINGS	5.21 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	15.38 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	780.00	1014.00	58.50
CONCRETE SLAB DEMO	SLAB AT GRADE	28.89 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	91.15	109.37	5.13
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2500.00 SQFT			580.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	97.92	117.50	5.41
INT TRANSITE DEMO	INT TRANSITE PANELS	4700.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	87.50	105.00	4.92
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	2400.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.00	4.02	.00
PIPING DEMO	INSULATION	12.05 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	68.29	81.95	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	426.82 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	783.33	940.00	1.76
INSULATION DEMO	INSULATION (BAT)	4700.00 SQFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	358.53	430.23	.54
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	426.82 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	18.33	36.67	.37
WINDOW DEMO	WINDOWS	110.00 SQFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	169.12	2824.34	41.44
COLUMN DEMO	W8 X 24 MEMBERS	15.84 TONS			579.42	
MISC. STEEL DEMO	MISC. ANGLES	1.60 TONS			579.42	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	24.00 TONS			579.42	
DOORS	DOORS	ABOVE GRADE	B	203.33	406.67	4.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1220.00 SQFT			579.42	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.98	7.96	.67
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18 LNFT			579.42	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	5.86	11.73	.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	99.53 LNFT			579.42	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	65.35	130.71	5.43
ELECTRICAL DEMO	CABLE TRAYS	199.49 LNFT			579.42	
ELECTRICAL DEMO	OVER 4" DIAMETER	199.93 LNFT			579.42	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	220.00	440.00	1.38
ELECTRICAL DEMO	ELECTRICAL FIXTURES	110.00 EACH			579.42	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	200.00	400.00	5.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	20.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	895.00	3132.50	9.42
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	895.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	571.00	1998.50	9.02
EQUIPMENT DEMO	HVAC EQUIPMENT	571.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	52.35	104.70	5.90
PIPING DEMO	2" DIAMETER & LESS	1999.66 LNFT			579.42	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.39	.79	.04
SANITARY SEWER DEMO	SN-2"	15.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	31.37	62.75	2.25
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			579.42	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	2.09	4.19	.15
SANITARY SEWER DEMO	SN-4"	20.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	125.64	251.28	5.55
PIPING DEMO	OVER 4" DIAMETER	299.95 LNFT			579.42	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	49.26	98.53	13.59

Source: 45A RUST ENGINEERING BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	9885.78 SQFT			579.42	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	26.06	52.12	6.44
METAL WALL PANEL DEMO	EXT. METAL PANELS	11700.00 SQFT			579.42	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	35.19	70.39	8.69
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	15800.00 SQFT			579.42	
CONCRETE	CONCRETE	BELOW GRADE	E	137.64	178.93	10.32
CONCRETE CURBING DEMO	CURBING	5.10 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	222.96	289.85	16.72
CONCRETE FOOTING DEMO	FOOTING A	6.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING D	.05 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL C	1.54 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	1026.00	1333.80	76.95
CONCRETE SLAB DEMO	PRECAST SLABS	38.00 CUYD			579.42	
CONCRETE	CONCRETE SLABS	AT GRADE	E	16119.11	20954.84	1208.93
CONCRETE SLAB DEMO	EAST CONCRETE PAD	64.30 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	358.88 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	173.83 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2000.00	2600.00	55.00
MASONRY WALL DEMO	MASONRY WALLS	3000.00 SQFT			579.42	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	512.50	1025.00	6.15
CEILING DEMO	CEILING DEMO	8200.00 SQFT			579.42	
TILE	FLOOR TILE	AT GRADE	G	132.92	159.50	6.38
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	6380.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	82.38	329.53	.19
HVAC DEMO	INSULATION	988.58 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	41.16	164.66	.09
PIPING DEMO	INSULATION	493.98 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	64.50	77.40	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	403.10 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	150.00	300.00	2.25
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00 CUFT			579.42	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	338.61	405.33	.51
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	403.10 CUFT			.00	

000357

Source: 45B UTILITY SHED EAST OF RUST TRAILERS Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.23	.46	.04
ELECTRICAL DEMO	2" DIAMETER & LESS	35.45 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	E	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	14.00	28.00	.28
WINDOW DEMO	WINDOWS	84.00 SQFT			580.00	
WOOD	WOOD	ABOVE GRADE	I	60.00	120.00	.90
MISC. MATERIAL DEMO	WOOD FRAMING	60.00 CUFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	220.02	3674.27	53.90
COLUMN DEMO	W8 X 24 MEMBERS	5.18 TONS			580.00	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	.60 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	18.96 TONS			580.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	2.00 TONS			580.00	
ROOF FRAMING DEMO	MISC STEEL (PLATES ETC)	1.20 TONS			580.00	
ROOF FRAMING DEMO	MISC. ANGLES	1.50 TONS			580.00	
ROOF FRAMING DEMO	STEEL TRUSSES	15.60 TONS			580.00	
ROOF FRAMING DEMO	TRUSS BRACING ANGLES	4.10 TONS			580.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	4.76 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	86.67	173.33	1.73
EXT DOOR DEMO	EXT DOORS (MAN & OH)	520.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	19.90	39.81	3.34
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	20.52	41.05	2.23
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	348.44 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	72.00	144.00	.45
ELECTRICAL DEMO	ELECTRICAL FIXTURES	36.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	150.00	300.00	3.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	15.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	14.40	50.40	.60
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	16.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.70	9.45	.11
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	25.91	51.82	2.92
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			580.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.79	1.57	.09
STORM SEWER DEMO	ST-2"M1	30.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	23.54	47.07	1.69
PIPING DEMO	2-1/2" TO 4" DIAMETER	249.73 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	27.75	55.50	1.99
STORM SEWER DEMO	ST-3"CI	40.00 LNFT			.00	
STORM SEWER DEMO	ST-4"M1	225.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	65.96	131.93	2.91
PIPING DEMO	OVER 4" DIAMETER	174.97 LNFT			580.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	16.76	33.51	.74

000359

Source: 46 HEAVY EQUIPMENT BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STORM SEWER DEMO	ST-6"M1	40.00	LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE		C	1.60	5.60	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	16.00	CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE		C	.30	1.05	.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00	CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE		C	2.88	5.76	.32
PIPING DEMO	2" DIAMETER & LESS	1099.66	LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		C	2.62	5.23	.19
PIPING DEMO	2-1/2" TO 4" DIAMETER	249.73	LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE		C	7.33	14.66	.32
PIPING DEMO	OVER 4" DIAMETER	174.97	LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE		D	1.16	2.31	.32
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	69.82	SQFT			580.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	162.18	SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE		D	25.00	50.00	6.17
METAL WALL PANEL DEMO	EXT. METAL PANELS	11224.00	SQFT			580.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE		D	3.34	6.68	.83
METAL WALL PANEL DEMO	INT. METAL PANELS	1500.00	SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE		D	32.34	64.69	7.99
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	14520.00	SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE		E	2852.50	3708.25	213.94
CONCRETE GRADE BEAM DEMO	GRADE BEAM	72.98	CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	32.67	CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	13260.00	17238.00	994.50
CONCRETE SLAB DEMO	SLAB AT GRADE	491.11	CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE		E	1040.00	1352.00	28.60
MASONRY WALL DEMO	MASONRY WALLS	1560.00	SQFT			580.00	
PIPING	CLAY PIPING	BELOW GRADE		E	1.27	1.66	.09
STORM SEWER DEMO	ST-4"	15.00	LNFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE		G	48.44	96.88	.58
CEILING DEMO	CEILING DEMO	775.00	SQFT			580.00	
TILE	FLOOR TILE	AT GRADE		G	4.17	5.00	.20
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	200.00	SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE		H	1.93	7.73	.00
HVAC DEMO	INSULATION	23.20	SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	25.10	100.40	.06

Source: 46 HEAVY EQUIPMENT BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	INSULATION	301.20 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	33.39	40.06	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	75.00	150.00	1.98
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	1200.00 SQFT			580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	470.00	940.00	7.05
MISC. MATERIAL DEMO	MISC. DEBRIS	470.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	175.28	210.33	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	63.33	126.67	1.27
WINDOW DEMO	WINDOWS	380.00 SQFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	5843.74	97590.44	1431.72
COLUMN DEMO	W10 X 33 MEMBERS	.81 TONS				580.00
COLUMN DEMO	W12 X 120 MEMBERS	10.08 TONS				580.00
COLUMN DEMO	W12 X 133 MEMBERS	30.72 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	.88 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	9.60 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	2.08 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	10.92 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	15.04 TONS				580.00
COLUMN DEMO	W12 X 45 MEMBERS	2.21 TONS				580.00
COLUMN DEMO	W12 X 65 MEMBERS	25.94 TONS				580.00
COLUMN DEMO	W12 X 65 MEMBERS	1.43 TONS				580.00
COLUMN DEMO	W12 X 65 MEMBERS	1.59 TONS				580.00
COLUMN DEMO	W12 X 79 MEMBERS	13.27 TONS				580.00
COLUMN DEMO	W12 X 99 MEMBERS	14.55 TONS				580.00
COLUMN DEMO	W8 X 31 MEMBERS	1.41 TONS				580.00
COLUMN DEMO	W8 X 31 MEMBERS	1.09 TONS				580.00
COLUMN DEMO	W8 X 31 MEMBERS	1.47 TONS				580.00
COLUMN DEMO	W8 X 31 MEMBERS	.84 TONS				580.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	27.60 TONS				580.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	18.22 TONS				580.00
EXT WALL FRMNG DEMO	MISC STEEL	.70 TONS				580.00
EXT WALL FRMNG DEMO	MISC STEEL	1.25 TONS				580.00
EXT WALL FRMNG DEMO	MISC STEEL	.70 TONS				580.00
EXT WALL FRMNG DEMO	MISC STEEL	.80 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	2.36 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	7.76 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	1.49 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	7.29 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	1.22 TONS				580.00
EXT WALL FRMNG DEMO	MISC. ANGLES	2.07 TONS				580.00
MISC. STEEL DEMO	MISC STEEL	30.15 TONS				580.00
STAIR FRAMING DEMO	C-CHANNEL FRAMING	.32 TONS				580.00
STAIR FRAMING DEMO	C-CHANNEL FRAMING	.55 TONS				580.00
STAIR FRAMING DEMO	C-CHANNEL FRAMING	.25 TONS				580.00
STAIR FRAMING DEMO	MEDIUM FLOOR PLATE	1.37 TONS				580.00
STAIR FRAMING DEMO	MEDIUM FLOOR PLATE	5.10 TONS				580.00
STAIR FRAMING DEMO	MISC STEEL	.63 TONS				580.00
STAIR FRAMING DEMO	W10 X 21 MEMBERS	.76 TONS				580.00
STAIR FRAMING DEMO	W10 X 21 MEMBERS	.55 TONS				580.00
STAIR FRAMING DEMO	W10 X 21 MEMBERS	.59 TONS				580.00
STAIR FRAMING DEMO	W8 X 31 MEMBERS	1.24 TONS				580.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.44 TONS				588.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	24.88 TONS				588.50
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	15.55 TONS				588.50
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	2.16 TONS				588.50
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	1.62 TONS				588.50
FLOOR FRAMING DEMO	W16 X 64 MEMBERS	1.46 TONS				588.50
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	1.80 TONS				588.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	3.08 TONS				597.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.72 TONS				597.00
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	113.56 TONS				597.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)	Elevation (FT)
FLOOR FRAMING DEMO	MISC STEEL	2.76 TONS					597.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.92 TONS					597.00
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	54.36 TONS					597.00
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	4.75 TONS					597.00
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	9.60 TONS					597.00
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	6.70 TONS					597.00
FLOOR FRAMING DEMO	W24 X 130 MEMBERS	15.60 TONS					597.00
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	1.82 TONS					597.00
FLOOR FRAMING DEMO	W27 X 114 MEMBERS	4.10 TONS					597.00
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	20.30 TONS					597.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.23 TONS					598.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.33 TONS					598.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	8.93 TONS					598.50
FLOOR FRAMING DEMO	MISC STEEL	.24 TONS					598.50
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	1.44 TONS					598.50
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	1.30 TONS					598.50
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	3.72 TONS					598.50
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	.91 TONS					598.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.42 TONS					605.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.23 TONS					605.00
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	31.58 TONS					605.00
FLOOR FRAMING DEMO	MISC STEEL	3.30 TONS					605.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	10.04 TONS					605.00
FLOOR FRAMING DEMO	W14 X 61 MEMBERS	5.86 TONS					605.00
FLOOR FRAMING DEMO	W14 X 87 MEMBERS	7.31 TONS					605.00
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	1.32 TONS					605.00
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.70 TONS					605.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.35 TONS					608.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	8.93 TONS					608.50
FLOOR FRAMING DEMO	MISC STEEL	.90 TONS					608.50
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	2.27 TONS					608.50
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.43 TONS					608.50
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	3.96 TONS					608.50
FLOOR FRAMING DEMO	W27 X 84 MEMBERS	1.01 TONS					608.50
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.85 TONS					608.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.19 TONS					610.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.31 TONS					610.00
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	29.35 TONS					610.00
FLOOR FRAMING DEMO	MISC STEEL	4.20 TONS					610.00
FLOOR FRAMING DEMO	MISC STEEL	.95 TONS					610.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	11.34 TONS					610.00
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.43 TONS					610.00
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	2.16 TONS					610.00
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	4.46 TONS					610.00
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.02 TONS					610.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.33 TONS					618.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.37 TONS					618.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	8.93 TONS					618.50
FLOOR FRAMING DEMO	MISC STEEL	.18 TONS					618.50
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	5.40 TONS					618.50
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	.86 TONS					618.50
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	1.20 TONS					618.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	3.36 TONS					619.50

000363

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.77 TONS			619.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	113.56 TONS			619.50	
FLOOR FRAMING DEMO	MISC STEEL	2.22 TONS			619.50	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	60.12 TONS			619.50	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	5.18 TONS			619.50	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	1.62 TONS			619.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	2.40 TONS			619.50	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	1.49 TONS			619.50	
FLOOR FRAMING DEMO	W24 X 110 MEMBERS	2.54 TONS			619.50	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	.91 TONS			619.50	
FLOOR FRAMING DEMO	W27 X 84 MEMBERS	3.02 TONS			619.50	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	29.33 TONS			619.50	
FLOOR FRAMING DEMO	W30 X 116 MEMBERS	1.39 TONS			619.50	
CRANE BEAMS	W14 X 74 MEMBERS	25.75 TONS			629.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	192.41 TONS			629.50	
FLOOR FRAMING DEMO	MISC STEEL	.18 TONS			629.50	
FLOOR FRAMING DEMO	MISC STEEL	.06 TONS			629.50	
FLOOR FRAMING DEMO	MISC STEEL	5.16 TONS			629.50	
FLOOR FRAMING DEMO	MISC STEEL	.95 TONS			629.50	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.57 TONS			629.50	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.38 TONS			629.50	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	37.44 TONS			629.50	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	27.65 TONS			629.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	12.00 TONS			629.50	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	5.95 TONS			629.50	
FLOOR FRAMING DEMO	W24 X 120 MEMBERS	5.76 TONS			629.50	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	6.38 TONS			629.50	
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	2.02 TONS			629.50	
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	9.07 TONS			629.50	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	2.26 TONS			629.50	
FLOOR FRAMING DEMO	W30 X 108 MEMBERS	5.18 TONS			629.50	
FLOOR FRAMING DEMO	W30 X 116 MEMBERS	1.39 TONS			629.50	
FLOOR FRAMING DEMO	W30 X 116 MEMBERS	8.35 TONS			629.50	
ROOF FRAMING DEMO	MISC STEEL	.30 TONS			629.50	
ROOF FRAMING DEMO	MISC. ANGLES	1.00 TONS			629.50	
ROOF FRAMING DEMO	W10 X 15 MEMBERS	13.50 TONS			629.50	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	3.28 TONS			629.50	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	1.94 TONS			629.50	
ROOF FRAMING DEMO	W16 X 36 MEMBERS	3.46 TONS			629.50	
ROOF FRAMING DEMO	MISC STEEL	1.90 TONS			652.25	
ROOF FRAMING DEMO	MISC. ANGLES	7.95 TONS			652.25	
ROOF FRAMING DEMO	W10 X 15 MEMBERS	31.50 TONS			652.25	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	10.58 TONS			652.25	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	32.08 TONS			652.25	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	6.75 TONS			652.25	
ROOF FRAMING DEMO	W16 X 36 MEMBERS	13.05 TONS			652.25	
ROOF FRAMING DEMO	W18 X 64 MEMBERS	6.14 TONS			652.25	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	1.13 TONS			653.50	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	28.13	469.69	6.89
SHEET METAL PILING DEMO	SHEET METAL PILING WEST SIDE	6.89 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	194.67	389.33	3.89

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1168.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	178.33	356.65	29.97
ELECTRICAL DEMO	2" DIAMETER & LESS	27246.36 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	5.86	11.73	.64
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	99.53 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	67.06	134.12	5.57
ELECTRICAL DEMO	OVER 4" DIAMETER	409.85 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	688.00	1376.00	4.30
ELECTRICAL DEMO	ELECTRICAL FIXTURES	344.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	160.00	320.00	4.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	8.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	1320.00	2640.00	33.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	132.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	9873.90	34558.65	70.65
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	10971.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	373.50	1307.25	6.75
EQUIPMENT DEMO	HVAC EQUIPMENT	415.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	5291.10	18518.85	41.31
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	5879.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	62434.80	218521.80	1965.51
EQUIPMENT DEMO	PROCESS EQUIPMENT	69372.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	546.25	1092.49	61.55
PIPING DEMO	2" DIAMETER & LESS	460.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	166.78 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1361.69 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	77.97 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	301.02 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	476.61 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	113.22 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1193.56 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	589.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	443.05 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	898.64 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	154.24 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	2912.54 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	8.14 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	462.03 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	17.29 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT			598.50	

000365

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	546.78 LNFT			598.50	
PIPING DEMO	2" DIAMETER & LESS	21.02 LNFT			598.50	
PIPING DEMO	2" DIAMETER & LESS	639.66 LNFT			605.00	
PIPING DEMO	2" DIAMETER & LESS	236.95 LNFT			605.00	
PIPING DEMO	2" DIAMETER & LESS	380.68 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	23.05 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	106.10 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	29.15 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	72.88 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	7.12 LNFT			610.00	
PIPING DEMO	2" DIAMETER & LESS	1843.39 LNFT			610.00	
PIPING DEMO	2" DIAMETER & LESS	338.98 LNFT			618.50	
PIPING DEMO	2" DIAMETER & LESS	229.15 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	507.80 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	2067.46 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	302.03 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	5.08 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	49.15 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	125.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	84.75 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	160.00 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	329.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	11.19 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	29.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	195.93 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	288.14 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	223.73 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	95.93 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	557.97 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	357.97 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	621.69 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	32.20 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	22.03 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	207.12 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	437.63 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	173.56 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	104.07 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	154.92 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	452.88 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	321.69 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			629.50	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.52	1.05	.06
SANITARY SEWER DEMO	SN-2"	20.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	366.40	732.79	26.24

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity		Elevation (FT)		
PIPING DEMO	2-1/2" TO 4" DIAMETER	87.87 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.00 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.00 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	392.53 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	154.80 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.93 LNFT		580.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00 LNFT		588.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87 LNFT		588.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	421.47 LNFT		588.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.93 LNFT		588.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93 LNFT		597.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT		598.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	72.93 LNFT		598.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT		598.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	107.87 LNFT		605.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	114.80 LNFT		605.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.00 LNFT		608.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT		608.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT		608.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	93.87 LNFT		608.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT		610.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT		610.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.00 LNFT		618.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT		619.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	597.20 LNFT		619.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT		619.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.87 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	56.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	60.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	65.87 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	181.73 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	54.93 LNFT		629.50		
PIPING DEMO	2-1/2" TO 4" DIAMETER	51.87 LNFT		629.50		
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	966.77	1933.53	42.70
PIPING DEMO	OVER 4" DIAMETER	18.97 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	137.95 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	132.97 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT		580.00		
PIPING DEMO	OVER 4" DIAMETER	158.97 LNFT		588.50		
PIPING DEMO	OVER 4" DIAMETER	34.97 LNFT		597.00		
PIPING DEMO	OVER 4" DIAMETER	68.00 LNFT		598.50		
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT		598.50		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	11.03 LNFT			598.50	
PIPING DEMO	OVER 4" DIAMETER	24.97 LNFT			605.00	
PIPING DEMO	OVER 4" DIAMETER	40.97 LNFT			608.50	
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT			608.50	
PIPING DEMO	OVER 4" DIAMETER	50.97 LNFT			608.50	
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT			608.50	
PIPING DEMO	OVER 4" DIAMETER	72.00 LNFT			610.00	
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			610.00	
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT			618.50	
PIPING DEMO	OVER 4" DIAMETER	52.00 LNFT			619.50	
PIPING DEMO	OVER 4" DIAMETER	329.89 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	572.86 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	50.97 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	26.97 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	84.00 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	96.00 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	17.03 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	44.00 LNFT			629.50	
PIPING DEMO	OVER 4" DIAMETER	272.92 LNFT			629.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1097.10	3839.85	7.85
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	10971.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	41.50	145.25	.75
EQUIPMENT DEMO	HVAC EQUIPMENT	415.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	587.90	2057.65	4.59
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	5879.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	6937.20	24280.20	218.39
EQUIPMENT DEMO	PROCESS EQUIPMENT	69372.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	60.69	121.39	6.84
PIPING DEMO	2" DIAMETER & LESS	460.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	166.78 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1361.69 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	77.97 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	202.03 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	301.02 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	476.61 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	113.22 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1193.56 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	589.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	443.05 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	898.64 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	154.24 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	2912.54 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	8.14 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	462.03 LNFT			588.50	
PIPING DEMO	2" DIAMETER & LESS	17.29 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	109.83 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	38.98 LNFT			598.50	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	546.78 LNFT			598.50	
PIPING DEMO	2" DIAMETER & LESS	21.02 LNFT			598.50	
PIPING DEMO	2" DIAMETER & LESS	639.66 LNFT			605.00	
PIPING DEMO	2" DIAMETER & LESS	236.95 LNFT			605.00	
PIPING DEMO	2" DIAMETER & LESS	380.68 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	23.05 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	106.10 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	29.15 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	72.88 LNFT			608.50	
PIPING DEMO	2" DIAMETER & LESS	7.12 LNFT			610.00	
PIPING DEMO	2" DIAMETER & LESS	1843.39 LNFT			610.00	
PIPING DEMO	2" DIAMETER & LESS	338.98 LNFT			618.50	
PIPING DEMO	2" DIAMETER & LESS	229.15 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	507.80 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	2067.46 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	302.03 LNFT			619.50	
PIPING DEMO	2" DIAMETER & LESS	5.08 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	49.15 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	125.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	84.75 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	160.00 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	329.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	11.19 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	29.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	195.93 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	288.14 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	223.73 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	68.14 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	95.93 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	143.05 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	557.97 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	357.97 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	621.69 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	32.20 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	22.03 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	207.12 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	437.63 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	173.56 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	104.07 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	154.92 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	452.88 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	321.69 LNFT			629.50	
PIPING DEMO	2" DIAMETER & LESS	37.97 LNFT			629.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	40.71	81.42	2.92
PIPING DEMO	2-1/2" TO 4" DIAMETER	87.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.00 LNFT			580.00	

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Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2-1/2" TO 4" DIAMETER	392.53 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	154.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	173.73 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.93 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4.00 LNFT			588.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	95.87 LNFT			588.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	421.47 LNFT			588.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.93 LNFT			588.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93 LNFT			597.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	62.93 LNFT			598.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	72.93 LNFT			598.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT			598.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	107.87 LNFT			605.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	114.80 LNFT			605.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	6.00 LNFT			608.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT			608.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	36.93 LNFT			608.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	93.87 LNFT			608.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT			610.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			610.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.00 LNFT			618.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	38.93 LNFT			619.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	597.20 LNFT			619.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			619.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	61.87 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	30.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	56.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	60.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	65.87 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	181.73 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	54.93 LNFT			629.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	51.87 LNFT			629.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	107.42	214.84	4.74
PIPING DEMO	OVER 4" DIAMETER	18.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	32.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	137.95 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	14.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	132.97 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	158.97 LNFT			588.50	
PIPING DEMO	OVER 4" DIAMETER	34.97 LNFT			597.00	
PIPING DEMO	OVER 4" DIAMETER	68.00 LNFT			598.50	
PIPING DEMO	OVER 4" DIAMETER	6.00 LNFT			598.50	
PIPING DEMO	OVER 4" DIAMETER	11.03 LNFT			598.50	
PIPING DEMO	OVER 4" DIAMETER	24.97 LNFT			605.00	
PIPING DEMO	OVER 4" DIAMETER	40.97 LNFT			608.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	62.00	LNFT	608.50		
PIPING DEMO	OVER 4" DIAMETER	50.97	LNFT	608.50		
PIPING DEMO	OVER 4" DIAMETER	17.03	LNFT	608.50		
PIPING DEMO	OVER 4" DIAMETER	72.00	LNFT	610.00		
PIPING DEMO	OVER 4" DIAMETER	30.00	LNFT	610.00		
PIPING DEMO	OVER 4" DIAMETER	42.00	LNFT	618.50		
PIPING DEMO	OVER 4" DIAMETER	52.00	LNFT	619.50		
PIPING DEMO	OVER 4" DIAMETER	329.89	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	572.86	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	50.97	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	26.97	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	84.00	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	96.00	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	17.03	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	44.00	LNFT	629.50		
PIPING DEMO	OVER 4" DIAMETER	272.92	LNFT	629.50		
DUCTWORK	DUCTWORK	ABOVE GRADE	D	133.10	266.19	36.72
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3498.17	SQFT	588.50		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3425.44	SQFT	588.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	421.82	SQFT	588.50		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	478.54	SQFT	597.00		
HVAC DEMO	DUCTWORK DEMO (ROUND)	277.82	SQFT	597.00		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3021.81	SQFT	610.00		
HVAC DEMO	DUCTWORK DEMO (ROUND)	1890.90	SQFT	610.00		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3761.44	SQFT	619.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	2256.72	SQFT	619.50		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2592.72	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	544.00	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	160.73	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	1656.72	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	760.72	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	1807.27	SQFT	629.50		
HVAC DEMO	DUCTWORK DEMO (ROUND)	153.45	SQFT	629.50		
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	13.20	26.40	4.69
LEAD FLASHING DEMO	LEAD FLASHING	9372.00	LBS	580.00		
LOUVERS	LOUVERS	ABOVE GRADE	D	42.67	85.33	.85
LOUVER DEMO	EXT LOUVERS	256.00	SQFT	580.00		
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.84	11.69	1.44
METAL WALL PANEL DEMO	INT. METAL PANELS	192.00	SQFT	580.00		
METAL WALL PANEL DEMO	INT. METAL PANELS	192.00	SQFT	597.00		
METAL WALL PANEL DEMO	INT. METAL PANELS	720.00	SQFT	597.00		
METAL WALL PANEL DEMO	INT. METAL PANELS	1520.00	SQFT	619.50		
CONCRETE	CONCRETE	BELOW GRADE	E	7945.00	10328.50	595.88
CONCRETE DEMO	CONCRETE FOUNDATION WELLS & CURBING	294.26	CUYD	.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	32597.31	42376.51	2444.80
CONCRETE FOOTING DEMO	FOOTINGS A	251.85	CUYD	.00		
CONCRETE FOOTING DEMO	FOOTINGS B,C	106.96	CUYD	.00		

Source: 4A GREEN SALT PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE FOOTING DEMO	FOOTINGS D,E	150.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS F,G	160.56 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS H	71.11 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS K,L	159.70 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS M,N	137.70 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS P	28.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS R	7.84 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS S	9.00 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS U	4.67 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS W	12.44 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS Z	13.48 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 1	25.81 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 2	17.01 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 3	41.17 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 4	2.03 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 5	.30 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 6	6.45 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS 7	1.20 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	18873.00	24534.90	1415.47
CONCRETE SLAB DEMO	CONCRETE SLABS	36.63 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	55.61 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	606.76 CUYD		.00		
PIPING	CLAY PIPING	BELOW GRADE	H	2.55	3.31	.18
SANITARY SEWER DEMO	SN-4"	30.00 LNFT		.00		
CONCRETE	ACID BRICK	AT GRADE	F	48.33	62.83	3.38
ACID BRICK DEMO	ACID BRICK IN HF RECOVERY AREA	145.00 SQFT		.00		
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	333.33	433.33	23.33
FIRE BRICK DEMO	FIRE BRICK INSIDE REACTORS	1000.00 SQFT		.00		
TILE	FLOOR TILE	ABOVE GRADE	G	10.42	12.50	.50
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	500.00 SQFT		.00		
TILE	FLOOR TILE	AT GRADE	G	10.42	12.50	.50
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	500.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	1743.44	2092.12	98.03
EXT TRANSITE DEMO	EXT TRANSITE PANELS	47820.00 SQFT		580.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	1704.23	2045.07	94.07
INT TRANSITE DEMO	INT TRANSITE PANELS	81419.00 SQFT		580.00		
INT TRANSITE DEMO	INT TRANSITE PANELS	384.00 SQFT		619.50		
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	1225.73	1470.87	68.92
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	33620.00 SQFT		580.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	222.57	890.28	.50
HVAC DEMO	INSULATION	2670.83 SQFT		.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	449.80	1799.20	1.01

Source: 4A GREEN SALT PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	INSULATION	5397.59 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	193.49	232.19	.29
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1209.31 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	7.09	14.16	.23
ELECTRICAL GROUND DEMO	#2 GROUND	1300.00 LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	7970.00	9564.00	17.93
INSULATION DEMO	INSULATION (BAT)	47820.00 SQFT			580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1181.00	2362.00	17.72
MISC. MATERIAL DEMO	MISC. DEBRIS	1181.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	1015.82	1218.99	1.54
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1209.31 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	1708.33	3416.67	34.17
WINDOW DEMO	WINDOWS	10250.00 SQFT			580.00	
WOOD	WOOD	ABOVE GRADE	I	32.00	64.00	.48
MISC. MATERIAL DEMO	WOOD FRAMING	32.00 CUFT			619.50	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	165.71	2767.43	40.60
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	24.60 TONS			580.00	
ROOF FRAMING DEMO	W12 X 50 MEMBERS	16.00 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	10.00	167.00	2.45
SHEET METAL PILING DEMO	SHEET METAL PILING ALONG EAST WALL	2.45 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	48.00	96.00	.96
EXT DOOR DEMO	EXT DOORS (MAN & OH)	288.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	10.11	20.23	1.70
ELECTRICAL DEMO	2" DIAMETER & LESS	1545.45 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	80.00	160.00	.50
ELECTRICAL DEMO	ELECTRICAL FIXTURES	40.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	140.00	280.00	3.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	14.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.08
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.40	.80	.04
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	151.65	303.30	10.86
PIPING DEMO	2-1/2" TO 4" DIAMETER	1448.13 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	4.19	8.38	.18
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	24.00	48.00	.48
LOUVER DEMO	EXT LOUVERS	144.00 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	16.71	33.41	4.13
METAL WALL PANEL DEMO	EXT. METAL PANELS	7500.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	24.95	49.90	6.16
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	11200.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3236.50	4207.45	242.74
CONCRETE FOOTING DEMO	FOOTING F1	10.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F2	16.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F3	4.28 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F4	1.30 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	84.78 CUYD			.00	

Source: 4B PLANT 4 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	COLUMNS	2.85 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	H	12120.00	15756.00	909.00
CONCRETE SLAB DEMO	SLAB AT GRADE	448.89 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	32.13	128.51	.07
PIPING DEMO	INSULATION	385.54 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	56.91	68.29	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	355.68 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	125.00	250.00	1.88
MISC. MATERIAL DEMO	MISC. DEBRIS	125.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	298.77	358.53	.45
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	355.68 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	103.67	1731.35	25.40
COLUMN DEMO	W12 X 50 MEMBERS	7.80 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	3.00 TONS			580.00	
ROOF FRAMING DEMO	W14 X 43 MEMBERS	14.60 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	36.67	73.33	.73
EXT DOOR DEMO	EXT DOORS	220.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	7.96	15.92	1.34
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	78.00	156.00	.49
ELECTRICAL DEMO	ELECTRICAL FIXTURES	39.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	315.00	1102.50	2.25
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	350.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	11.70	40.95	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	13.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	169.20	592.20	1.35
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	188.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1993.50	6977.25	62.73
EQUIPMENT DEMO	PROCESS EQUIPMENT	2215.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	10.61	21.21	1.20
PIPING DEMO	2" DIAMETER & LESS	450.17 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	9.41	18.82	.67
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	35.00	122.50	.25
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	350.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1.30	4.55	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	13.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	18.80	65.80	.15
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	188.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	221.50	775.25	6.97
EQUIPMENT DEMO	PROCESS EQUIPMENT	2215.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.18	2.36	.13
PIPING DEMO	2" DIAMETER & LESS	450.17 LNFT			580.00	

Source: 4C PLANT 4 MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	1.05	2.09	.07
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			580.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.56	1.13	.20
LEAD FLASHING DEMO	LEAD FLASHING	400.00 LBS			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	7.11	9.24	.53
CONCRETE DEMO	END WALL FOUNDATION	.26 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	568.00	738.40	42.60
CONCRETE FOOTING DEMO	FOOTINGS	2.96 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	18.07 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2426.67	3154.67	182.00
CONCRETE SLAB DEMO	SLAB AT GRADE	89.88 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	320.00	416.00	24.00
CONCRETE WALL DEMO	ENDWALL	11.85 CUYD			.00	
TILE	FLOOR TILE	AT GRADE	G	2.08	2.50	.10
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	100.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	145.83	175.00	8.20
EXT TRANSITE DEMO	EXT TRANSITE PANELS	4000.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	142.19	170.62	8.00
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	3900.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	7.03	28.11	.02
PIPING DEMO	INSULATION	84.34 SQFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	46.67	93.33	.93
WINDOW DEMO	WINDOWS	280.00 SQFT			580.00	

000377

Source: 51 SIX TO FOUR REDUCTION FACILITY #2 Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1420.00	23714.00	347.90
		347.90 TONS			.00	
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	ABOVE GRADE	B	135012.60	472544.10	3375.32
EQUIPMENT DEMO	EQUIPMENT AND MISCELLANEOUS	150014.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.52	1.05	.06
PROCESS WATER DEMO	PW-105-.5"	20.00 LNFT			.00	
EQUIPMENT	EQUIPMENT AND MISCELLANEOUS	ABOVE GRADE	C	15001.40	52504.90	375.04
EQUIPMENT DEMO	EQUIPMENT AND MISCELLANEOUS	150014.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	.39	.79	.04
CONTAMINATED SEWER DEMO	CSN-138-2"	15.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	297.40	594.81	13.14
CONTAMINATED SEWER DEMO	CSN-132-4"	685.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CSN-138-4"	25.00 LNFT			.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	29335.00	38135.50	2200.13
		1086.48 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2496.00	3244.80	187.20
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	64.00 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	28.44 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	19275.20	25057.76	1445.64
CONCRETE SLAB DEMO	SLAB AT GRADE	379.56 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	334.34 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	7.21	9.38	.51
SANITARY SEWER DEMO	SN-110-2"	20.00 LNFT			.00	
SANITARY SEWER DEMO	SN-110-4"	65.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	28.85	57.70	.94
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	2600.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	85.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	750.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2.5" ELECTRICAL CONDUIT	115.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	265.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	4" ELECTRICAL CONDUIT	325.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#4/0 GROUND	1150.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	334.12	5579.84	81.86
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	1.82 TONS			569.00	
FLOOR FRAMING DEMO	MISC ANGLE FRAMING	.30 TONS			581.00	
FLOOR FRAMING DEMO	STEEL JOISTS DEMO	4.38 TONS			581.00	
FLOOR FRAMING DEMO	W12 X 14 MEMBERS	2.32 TONS			581.00	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	.24 TONS			581.00	
FLOOR FRAMING DEMO	W16 X 26 MEMBERS	2.34 TONS			581.00	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	1.28 TONS			581.00	
FLOOR FRAMING DEMO	W21 X 44 MEMBERS	3.87 TONS			581.00	
FLOOR FRAMING DEMO	W21 X 49 MEMBERS	1.10 TONS			581.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	2.46 TONS			581.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	6.47 TONS			581.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.69 TONS			581.00	
MISC. STEEL DEMO	MISC STEEL (HAND RAIL)	.38 TONS			581.00	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	4.79 TONS			581.00	
STEEL COLUMN DEMO	W8 X 31 MEMBERS	5.82 TONS			581.00	
FLOOR FRAMING DEMO	STEEL JOISTS DEMO	7.05 TONS			594.00	
FLOOR FRAMING DEMO	W12 X 19 MEMBERS	4.98 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	.97 TONS			594.00	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.33 TONS			594.00	
FLOOR FRAMING DEMO	W16 X 26 MEMBERS	2.60 TONS			594.00	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	.40 TONS			594.00	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	2.40 TONS			594.00	
FLOOR FRAMING DEMO	W21 X 44 MEMBERS	.44 TONS			594.00	
FLOOR FRAMING DEMO	W21 X 49 MEMBERS	1.00 TONS			594.00	
FLOOR FRAMING DEMO	W8 X 18 MEMBERS	.49 TONS			594.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	1.92 TONS			594.00	
FLOOR FRAMING DEMO	W8 X 28 MEMBERS	.92 TONS			594.00	
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	4.48 TONS			594.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	3.10 TONS			605.00	
ROOF FRAMING DEMO	W12 X 16 MEMBERS	3.52 TONS			605.00	
ROOF FRAMING DEMO	W14 X 22 MEMBERS	3.83 TONS			605.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	2.70 TONS			605.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	2.47 TONS			605.00	
DOORS	DOORS	ABOVE GRADE	B	614.83	1229.67	12.30
EXT DOOR DEMO	EXT DOORS (MAN & OH)	504.00 SQFT			569.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	2072.00 SQFT			581.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1113.00 SQFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	107.36	214.71	18.04
ELECTRICAL DEMO	2" DIAMETER & LESS	2463.00 LNFT			569.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	6970.00 LNFT			581.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	6970.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	187.85	375.69	20.41
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	479.00 LNFT			569.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1355.00 LNFT			581.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1355.00 LNFT			594.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	119.45	238.89	9.93
ELECTRICAL DEMO	OVER 4" DIAMETER	110.00 LNFT			569.00	

000379

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	OVER 4" DIAMETER	310.00 LNFT			581.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	310.00 LNFT			594.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1216.00	2432.00	7.60
ELECTRICAL DEMO	ELECTRICAL FIXTURES	92.00 EACH			569.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	258.00 EACH			581.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	258.00 EACH			594.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	85.37	170.74	4.27
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	85.37 CUFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1781.75	6236.13	10.69
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1781.75 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1925.00	6737.50	18.06
EQUIPMENT DEMO	HVAC EQUIPMENT	1925.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	140.00	490.00	1.07
EQUIPMENT DEMO	PROCESS EQUIPMENT	140.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	300.73	601.46	33.89
PIPING DEMO	2" DIAMETER & LESS	687.00 LNFT			569.00	
PIPING DEMO	2" DIAMETER & LESS	4895.00 LNFT			581.00	
PIPING DEMO	2" DIAMETER & LESS	530.00 LNFT			581.00	
PIPING DEMO	2" DIAMETER & LESS	5375.00 LNFT			594.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	5.50	11.00	.62
PIPING DEMO	1" SUPPLIED AIR	60.00 LNFT			.00	
PIPING DEMO	2" SUPPLIED AIR	45.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2"	60.00 LNFT			.00	
VENT LINE DEMO	VE-1.5" ACID VENT	20.00 LNFT			.00	
VENT LINE DEMO	VE-2" ACID VENT	25.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	164.93	329.87	11.81
PIPING DEMO	2-1/2" TO 4" DIAMETER	386.00 LNFT			569.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	250.00 LNFT			581.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	939.00 LNFT			594.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	20.94	41.89	1.50
LOW PRESSURE FIRE LINE DEMO	COLD WATER SUPPLY	40.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3"	25.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	135.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	328.82	657.64	14.52
PIPING DEMO	OVER 4" DIAMETER	445.00 LNFT			569.00	
PIPING DEMO	OVER 4" DIAMETER	160.00 LNFT			569.00	
PIPING DEMO	OVER 4" DIAMETER	180.00 LNFT			581.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	46.08	92.15	2.04
SANITARY SEWER DEMO	SN-5"	110.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	151.76	303.52	41.87
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3418.00 SQFT			569.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	11335.00 SQFT			581.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	14005.00 SQFT			594.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1696.00 SQFT			605.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	4.67	9.33	.09
LOUVER DEMO	EXT LOUVERS	28.00 SQFT			581.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.78	1.55	.19
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	348.00 SQFT			594.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	13162.50	17111.25	987.19
CONCRETE BEAM DEMO	CONCRETE BEAMS	156.60 CUYD			594.00	
CONCRETE BEAM DEMO	CONCRETE BEAMS	130.70 CUYD			594.00	
CONCRETE BEAM DEMO	CONCRETE BEAMS	200.20 CUYD			605.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	1853.01	2408.91	138.98
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	37.41 CUYD			581.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	31.22 CUYD			581.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6273.75	8155.87	470.53
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	42.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	132.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	47.41 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	5.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.75 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWAYS	3.70 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	23531.31	30590.70	1764.85
CONCRETE SLAB DEMO	CONCRETE SLABS	141.50 CUYD			581.00	
CONCRETE SLAB DEMO	MISC. CONCRETE SLABS	4.33 CUYD			581.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	393.80 CUYD			594.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	130.40 CUYD			605.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	201.50 CUYD			605.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	14661.00	19059.30	1099.58
CONCRETE SLAB DEMO	CONCRETE SLABS	295.74 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	247.26 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	4560.00	5928.00	342.00
CONCRETE SLAB DEMO	BASEMENT SLAB	168.89 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	21776.00	28308.80	1633.20
CONCRETE WALL DEMO	BASEMENT WALLS	788.74 CUYD			.00	
CONCRETE WALL DEMO	BASEMENT WALLS	17.78 CUYD			.00	
CONCRETE	MASONRY	BELOW GRADE	E	940.00	1222.00	25.85
MASONRY WALL DEMO	MASONRY WALLS	200.00 SQFT			.00	
MASONRY WALL DEMO	MASONRY WALLS	200.00 SQFT			.00	
MASONRY WALL DEMO	MASONRY WALLS	350.00 SQFT			.00	
MASONRY WALL DEMO	MASONRY WALLS	110.00 SQFT			.00	
MASONRY WALL DEMO	MASONRY WALLS	350.00 SQFT			.00	
MASONRY WALL DEMO	MASONRY WALLS	200.00 SQFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	8790.00	11427.00	241.72
MASONRY WALL DEMO	MASONRY WALLS	3594.00 SQFT			581.00	
MASONRY WALL DEMO	MASONRY WALLS	9591.00 SQFT			581.00	
PIPING	CLAY PIPING	BELOW GRADE	E	15.70	20.41	1.10
SANITARY SEWER DEMO	SN-6"	35.00 LNFT			.00	
STORM SEWER DEMO	ST-3"	55.00 LNFT			.00	
STORM SEWER DEMO	ST-5"	55.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	40.00 LNFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	2837.19	5674.38	34.05
CEILING DEMO	CEILING DEMO	6675.00 SQFT			569.00	
CEILING DEMO	CEILING DEMO	19360.00 SQFT			581.00	
CEILING DEMO	CEILING DEMO	19360.00 SQFT			594.00	
TILE	FLOOR TILE	ABOVE GRADE	G	409.77	491.72	19.67
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	19669.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	409.77	491.72	19.67
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	19669.00 SQFT			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	253.83	1015.33	.57
HVAC DEMO	INSULATION	342.00 SQFT			569.00	
HVAC DEMO	INSULATION	1134.00 SQFT			581.00	
HVAC DEMO	INSULATION	1400.00 SQFT			594.00	
HVAC DEMO	INSULATION	170.00 SQFT			605.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	193.92	775.67	.44
PIPING DEMO	INSULATION	2327.00 SQFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	3.98	7.96	.13
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	255.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	255.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	125.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	95.00 LNFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	6385.38	12770.75	168.57
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	14568.00 SQFT			569.00	
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	51760.00 SQFT			581.00	
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	35838.00 SQFT			594.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	4837.00	5804.40	10.88
INSULATION DEMO	INSULATION (RIGID)	648.00 SQFT			594.00	
INSULATION DEMO	INSULATION (RIGID)	712.00 SQFT			594.00	
INSULATION DEMO	INSULATION (RIGID)	918.00 SQFT			594.00	
INSULATION DEMO	INSULATION (RIGID)	12320.00 SQFT			605.00	
INSULATION DEMO	INSULATION (RIGID)	1224.00 SQFT			605.00	
INSULATION DEMO	INSULATION (RIGID)	13200.00 SQFT			605.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	6241.00	12482.00	93.62
MISC. MATERIAL DEMO	MISC. DEBRIS	4864.00 CUFT			569.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	2.00 CUFT			581.00	

Source: 53A HEALTH AND SAFETY BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	Cat	FS Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MISC. MATERIAL DEMO	MISC. DEBRIS	2.00	CUFT		581.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	1368.00	CUFT		594.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	5.00	CUFT		605.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	1796.75	3593.50	64.68
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	475.00	SQFT		594.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	432.00	SQFT		594.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	918.00	SQFT		594.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	12320.00	SQFT		605.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	816.00	SQFT		605.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	6600.00	SQFT		605.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	935.67	1871.33	18.71
WINDOW DEMO	WINDOWS	3522.00	SQFT		581.00	
WINDOW DEMO	WINDOWS	2092.00	SQFT		581.00	

Source: 53B IN-VIVO BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.41	407.62	5.98
MISC. STEEL DEMO	LIGHTGAGE METAL FRAMING	.99 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	2.99 TONS			580.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	2.00 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	60.67	121.33	1.21
EXT DOOR DEMO	EXT DOORS (MAN & OH)	364.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.95	9.90	.83
ELECTRICAL DEMO	2" DIAMETER & LESS	756.00 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.66	17.32	.94
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	147.00 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	5.56	11.13	.46
ELECTRICAL DEMO	OVER 4" DIAMETER	34.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	56.00	112.00	.35
ELECTRICAL DEMO	ELECTRICAL FIXTURES	28.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	154.52	540.82	.93
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	154.52 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	16.00	56.00	.10
EQUIPMENT DEMO	HVAC EQUIPMENT	16.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1009.00	3531.50	101.75
EQUIPMENT DEMO	PROCESS EQUIPMENT	1009.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	22.41	44.82	2.53
PIPING DEMO	2" DIAMETER & LESS	856.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	9.63	19.27	.69
PIPING DEMO	2-1/2" TO 4" DIAMETER	92.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	7.97	15.95	2.20
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1600.00 SQFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	1.33	2.67	.03
LOUVER DEMO	EXT LOUVERS	8.00 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.60	11.21	1.38
METAL WALL PANEL DEMO	EXT. METAL PANELS	2516.00 SQFT			580.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.60	11.21	1.38
METAL WALL PANEL DEMO	INT. METAL PANELS	2516.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	5.01	10.02	1.24
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	2250.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	10800.00	14040.00	810.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM	400.00 CUYD			.00	

Source: 53B IN-VIVO BUILDING Component Category: 1

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	1400.00	1820.00	105.00
CONCRETE SLAB DEMO	SLAB AT GRADE	51.85 CUYD			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	140.63	281.25	1.69
CEILING DEMO	CEILING DEMO	2250.00 SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	13.33	53.33	.03
HVAC DEMO	INSULATION	160.00 SQFT			580.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	11.34	45.38	.03
PIPING DEMO	INSULATION	136.14 SQFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	494.00	988.00	13.04
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	7904.00 SQFT			580.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1169.33	1403.20	2.63
INSULATION DEMO	INSULATION (BAT)	4500.00 SQFT			580.00	
INSULATION DEMO	INSULATION (RIGID)	2516.00 SQFT			580.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	2.00	4.00	.03
MISC. MATERIAL DEMO	MISC. DEBRIS	2.00 CUFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	54.00	108.00	1.08
WINDOW DEMO	WINDOWS	324.00 SQFT			580.00	

Source: 54A SIX TO FOUR REDUCTION FACILITY #1 Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	566.35	9457.99	138.76
COLUMN DEMO	W12 X 65 MEMBERS	10.40 TONS			579.00	
COLUMN DEMO	W8 X 31 MEMBERS	5.58 TONS			579.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.25 TONS			579.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			579.00	
MISC. STEEL DEMO	MISC STEEL	1.50 TONS			579.00	
MISC. STEEL DEMO	THREADED RODS	1.00 TONS			579.00	
MISC. STEEL DEMO	TUBE STEEL FRAMING	1.30 TONS			579.00	
MISC. STEEL DEMO	W24 X 68 MEMBERS	11.42 TONS			579.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	16.60 TONS			579.00	
ROOF FRAMING DEMO	METAL DECKING	3.36 TONS			579.00	
ROOF FRAMING DEMO	STEEL TRUSSES	9.92 TONS			579.00	
ROOF FRAMING DEMO	W14 X 26 MEMBERS	1.64 TONS			579.00	
ROOF FRAMING DEMO	W18 X 35 MEMBERS	1.75 TONS			579.00	
ROOF FRAMING DEMO	W8 X 13 MEMBERS	.41 TONS			579.00	
COLUMN DEMO	W8 X 15 MEMBERS	1.80 TONS			586.17	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.35 TONS			586.17	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	2.85 TONS			586.17	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	3.17 TONS			586.17	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.00 TONS			586.17	
FLOOR FRAMING DEMO	W8 X 18 MEMBERS	3.24 TONS			586.17	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	1.00 TONS			586.17	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.62 TONS			586.17	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.65 TONS			586.17	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.50 TONS			586.17	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			586.17	
MISC. STEEL DEMO	MISC STEEL	1.00 TONS			586.17	
MISC. STEEL DEMO	STEEL HANDRAILS	.50 TONS			586.17	
STAIR FRAMING DEMO	STAIR FRAMING	1.50 TONS			586.17	
COLUMN DEMO	W8 X 15 MEMBERS	1.80 TONS			589.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.80 TONS			589.00	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	2.85 TONS			589.00	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	3.17 TONS			589.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.00 TONS			589.00	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.62 TONS			589.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.65 TONS			589.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			589.00	
COLUMN DEMO	W8 X 15 MEMBERS	1.80 TONS			599.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.80 TONS			599.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.69 TONS			599.00	
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	2.85 TONS			599.00	
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	3.17 TONS			599.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.00 TONS			599.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.35 TONS			599.00	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.62 TONS			599.00	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.65 TONS			599.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.50 TONS			599.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			599.00	
MISC. STEEL DEMO	MISC STEEL	1.00 TONS			599.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			599.00	
MISC. STEEL DEMO	STEEL HANDRAILS	.24 TONS			599.00	
COLUMN DEMO	W8 X 15 MEMBERS	1.80 TONS			609.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.80 TONS		609.00		
FLOOR FRAMING DEMO	W10 X 15 MEMBERS	2.85 TONS		609.00		
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	3.17 TONS		609.00		
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	1.00 TONS		609.00		
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.62 TONS		609.00		
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	3.65 TONS		609.00		
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS		609.00		
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS		609.00		
DOORS	DOORS	ABOVE GRADE	B	24.50	49.00	.49
EXT DOOR DEMO	EXT DOORS (MAN & OH)	42.00 SQFT		579.00		
EXT DOOR DEMO	EXT DOORS (MAN & OH)	105.00 SQFT		579.00		
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.65	7.29	.61
ELECTRICAL DEMO	2" DIAMETER & LESS	557.27 LNFT		579.00		
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH		.00		
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	220.00	440.00	5.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	22.00 EACH		.00		
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	894.60	3131.10	5.94
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	994.00 CUFT		.00		
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	90.00	315.00	.45
EQUIPMENT DEMO	HVAC EQUIPMENT	100.00 CUFT		.00		
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	57.60	201.60	4.32
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	64.00 CUFT		.00		
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	23918.40	83714.40	119.16
EQUIPMENT DEMO	PROCESS EQUIPMENT	26576.00 CUFT		.00		
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	120.09	240.17	13.53
PIPING DEMO	2" DIAMETER & LESS	43.73 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	11.86 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	117.97 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	66.78 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	127.80 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	343.73 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	233.90 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	72.20 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	503.05 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	345.08 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	682.03 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	74.24 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	143.73 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	13.22 LNFT		579.00		
PIPING DEMO	2" DIAMETER & LESS	935.59 LNFT		579.00		

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	84.07 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	65.08 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	268.81 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	182.03 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	448.81 LNFT			609.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	255.16	510.32	18.27
PIPING DEMO	2-1/2" TO 4" DIAMETER	106.80 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	294.67 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1822.53 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	58.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	18.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	83.87 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	99.40	347.90	.66
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	994.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	10.00	35.00	.05
EQUIPMENT DEMO	HVAC EQUIPMENT	100.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	6.40	22.40	.48
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	64.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	2657.60	9301.60	13.24
EQUIPMENT DEMO	PROCESS EQUIPMENT	26576.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	13.34	26.69	1.50
PIPING DEMO	2" DIAMETER & LESS	43.73 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	205.76 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	11.86 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	117.97 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	66.78 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	127.80 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	343.73 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	111.86 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	233.90 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	72.20 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	503.05 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	345.08 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	682.03 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	74.24 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	15.25 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	143.73 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	13.22 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	935.59 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	84.07 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	65.08 LNFT			579.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	268.81 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	182.03 LNFT			579.00	
PIPING DEMO	2" DIAMETER & LESS	448.81 LNFT			609.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	28.35	56.70	2.03
PIPING DEMO	2-1/2" TO 4" DIAMETER	106.80 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	294.67 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	16.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1822.53 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	24.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.00 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	58.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	18.93 LNFT			579.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	83.87 LNFT			579.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	57.69	115.39	15.92
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1836.36 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	234.91 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	373.09 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	85.82 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	984.00 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1039.27 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	167.27 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	120.73 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	574.54 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	103.27 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	476.36 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	718.54 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	309.09 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	276.36 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	312.73 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	776.72 SQFT			579.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	915.63 SQFT			586.17	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	262.54 SQFT			589.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	424.73 SQFT			589.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1200.00 SQFT			609.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	385.45 SQFT			609.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	1.55	3.10	.55
LEAD FLASHING DEMO	LEAD FLASHING	500.00 LBS			579.00	
LEAD FLASHING DEMO	LEAD FLASHING	100.00 LBS			579.00	
LEAD FLASHING DEMO	LEAD FLASHING	500.00 LBS			579.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	24.00	48.00	.48
LOUVER DEMO	EXT LOUVERS	144.00 SQFT			579.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	13.71	27.42	3.39
METAL WALL PANEL DEMO	EXT. METAL PANELS	6155.00 SQFT			579.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.92	25.84	3.19

000389

Source: 54A SIX TO FOUR REDUCTION FACILITY #1 Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
METAL WALL PANEL DEMO	INT. METAL PANELS	5800.00 SQFT			579.00	
CONCRETE	CONCRETE	BELOW GRADE	E	58.00	75.40	4.35
CONCRETE CURBING DEMO	INTERIOR WALL CURBING	.99 CUYD			.00	
CONCRETE CURBING DEMO	INTERIOR WALL CURBING	.40 CUYD			.00	
CONCRETE CURBING DEMO	INTERIOR WALL CURBING	.77 CUYD			.00	
CONCRETE	CONCRETE BEAMS	ABOVE GRADE	E	3202.20	4162.86	240.17
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	53.40 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	6.80 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	4.90 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	5.00 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	6.20 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	18.90 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	2.50 CUYD			579.00	
MISC CONCRETE DEMO	PRECAST CONCRETE BEAMS	20.90 CUYD			579.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	1800.90	2341.17	135.07
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	1.40 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	11.80 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	30.00 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	3.80 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	2.80 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	2.80 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	10.60 CUYD			579.00	
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	3.50 CUYD			579.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2192.47	2850.21	164.44
CONCRETE EQUIPMENT FNDN DEMO	MISC. FOUNDATIONS	.75 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FOUNDATIONS	1.08 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FOUNDATIONS	2.37 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F1	33.98 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F2	14.20 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F3	.71 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F4	.62 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F5	3.72 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F6	.42 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	.67 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	17.93 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	4.76 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	1074.60	1396.98	80.60
PRECAST SLAB DEMO	PRECAST SLABS	1.60 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	.80 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	6.40 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	2.30 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	2.10 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	1.70 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	17.90 CUYD			579.00	
PRECAST SLAB DEMO	PRECAST SLABS	7.00 CUYD			579.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	6509.70	8462.61	488.23
CONCRETE SLAB DEMO	CONCRETE SLABS	13.90 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE SLAB DEMO	CONCRETE SLABS	5.00 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	10.10 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	9.90 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	108.60 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	12.60 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	42.50 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	38.50 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	4400.67	5720.87	121.02
MASONRY WALL DEMO	MASONRY WALLS	346.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	380.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1163.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	138.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	2973.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	276.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	1053.00 SQFT			579.00	
MASONRY WALL DEMO	MASONRY WALLS	272.00 SQFT			579.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	168.75	337.51	2.03
CEILING DEMO	CEILING DEMO	1959.06 SQFT			579.00	
CEILING DEMO	CEILING DEMO	300.00 SQFT			579.00	
CEILING DEMO	CEILING DEMO	441.00 SQFT			586.17	
TILE	FLOOR TILE	AT GRADE	G	16.67	20.00	.80
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	800.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	222.40	266.87	12.51
EXT TRANSITE DEMO	EXT TRANSITE PANELS	6100.00 SQFT			579.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	96.48	385.91	.22
HVAC DEMO	INSULATION	1157.74 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	114.46	457.83	.26
PIPING DEMO	INSULATION	1373.49 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	273.92	328.71	.41
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1712.01 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	31.25	62.50	.83
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	500.00 SQFT			579.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	2633.33	3160.00	5.93
INSULATION DEMO	INSULATION (BAT)	5800.00 SQFT			579.00	
INSULATION DEMO	INSULATION (RIGID)	10000.00 SQFT			579.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	476.00	952.00	7.14
MISC. MATERIAL DEMO	MISC. DEBRIS	456.00 CUFT			579.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	20.00 CUFT			586.17	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	1438.09	1725.70	2.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1712.01 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	833.33	1666.67	30.00

Source: 54A SIX TO FOUR REDUCTION FACILITY #1 Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	3070.00 SQFT			579.00	
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	6930.00 SQFT			579.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	141.33	286.67	2.87
WINDOW DEMO	WINDOWS	64.00 SQFT			579.00	
WINDOW DEMO	WINDOWS	224.00 SQFT			579.00	
WINDOW DEMO	WINDOWS	572.00 SQFT			579.00	
WOOD	WOOD	ABOVE GRADE	I	4.84	9.68	.07
FLOOR FRAMING DEMO	WOOD FRAMING	4.84 CUFT			599.00	

Source: 54B PILOT PLANT SHELTER Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.49	408.98	6.00
COLUMN DEMO	W24 X 55 MEMBERS	2.00 TONS			580.00	
ROOF FRAMING DEMO	W24 X 61 MEMBERS	4.00 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	8.33	16.67	.17
EXT DOOR DEMO	EXT DOORS (MAN & OH)	50.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.31	8.62	.72
ELECTRICAL DEMO	2" DIAMETER & LESS	658.18 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.80	17.60	.96
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	149.38 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	28.00	56.00	.18
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.14
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.57	11.14	1.38
METAL WALL PANEL DEMO	EXT. METAL PANELS	2500.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	8.24	16.48	2.04
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	3700.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	88.00	114.40	6.60
CONCRETE FOOTING DEMO	FOOTINGS	2.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.59 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2400.00	3120.00	180.00
CONCRETE SLAB DEMO	CONCRETE SLABS	88.89 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	141.13	169.36	.21
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	882.09 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	740.95	889.14	1.12
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	882.09 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.49	408.98	6.00
COLUMN DEMO	W24 X 55 MEMBERS	2.00 TONS			579.00	
ROOF FRAMING DEMO	W24 X 61 MEMBERS	4.00 TONS			579.00	
DOORS	DOORS	ABOVE GRADE	B	13.33	26.67	.27
EXT DOOR DEMO	EXT DOORS (MAN & OH)	80.00 SQFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.65	5.31	.45
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			579.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	11.72	23.43	1.27
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT			579.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			579.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	50.40	176.40	.36
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	56.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	5.40	18.90	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.27
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1341.00	4693.50	6.66
EQUIPMENT DEMO	PROCESS EQUIPMENT	1490.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	74.46	148.91	5.33
PIPING DEMO	2-1/2" TO 4" DIAMETER	790.00 LNFT			579.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	5.60	19.60	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	56.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.60	2.10	.00
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	.40	1.40	.03
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	149.00	521.50	.74
EQUIPMENT DEMO	PROCESS EQUIPMENT	1490.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	8.27	16.55	.59
PIPING DEMO	2-1/2" TO 4" DIAMETER	790.00 LNFT			579.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	38.33	76.67	.77
LOUVER DEMO	EXT LOUVERS	230.00 SQFT			579.00	

Source: 54C PILOT PLANT DISSOCIATOR SHELTER Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.79	11.58	1.43
METAL WALL PANEL DEMO	EXT. METAL PANELS	2600.00 SQFT			579.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	2.90	5.79	.72
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1300.00 SQFT			579.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	364.50	473.85	27.34
CONCRETE GRADE BEAM DEMO	GRADE BEAM	13.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	780.30	1014.39	58.52
CONCRETE SLAB DEMO	SLAB AT GRADE	28.90 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	17.07	68.27	.04
PIPING DEMO	INSULATION	204.82 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	1.79	4.55	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	19.92	23.90	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	23.71 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	310.05	5177.82	75.96
COLUMN DEMO	W10 X 33 MEMBERS	.97 TONS			579.50	
COLUMN DEMO	W10 X 49 MEMBERS	1.45 TONS			579.50	
COLUMN DEMO	W14 X 43 MEMBERS	3.44 TONS			579.50	
COLUMN DEMO	W14 X 61 MEMBERS	5.00 TONS			579.50	
COLUMN DEMO	W8 X 24 MEMBERS	1.12 TONS			579.50	
COLUMN DEMO	W8 X 31 MEMBERS	2.15 TONS			579.50	
MISC STEEL	WT8 X 18 MEMBERS	3.60 TONS			579.50	
WALL FRAMING	C-CHANNEL FRAMING	7.22 TONS			579.50	
WALL FRAMING	MISC. ANGLES	3.35 TONS			579.50	
FLOOR FRAMING	C-CHANNEL FRAMING	1.36 TONS			593.00	
FLOOR FRAMING	LIGHT FLOOR PLATE	1.28 TONS			593.00	
FLOOR FRAMING	W12 X 27 MEMBERS	.81 TONS			593.00	
FLOOR FRAMING	W8 X 17 MEMBERS	2.64 TONS			593.00	
FLOOR FRAMING	C-CHANNEL FRAMING	2.98 TONS			599.00	
FLOOR FRAMING	LIGHT FLOOR PLATE	1.02 TONS			599.00	
FLOOR FRAMING	W10 X 21 MEMBERS	.21 TONS			599.00	
FLOOR FRAMING	W12 X 27 MEMBERS	1.40 TONS			599.00	
FLOOR FRAMING	W16 X 36 MEMBERS	4.50 TONS			599.00	
FLOOR FRAMING	W18 X 50 MEMBERS	1.55 TONS			599.00	
FLOOR FRAMING	W8 X 13 MEMBERS	.12 TONS			599.00	
FLOOR FRAMING	W8 X 17 MEMBERS	.17 TONS			599.00	
FLOOR FRAMING	W8 X 20 MEMBERS	.18 TONS			599.00	
FLOOR FRAMING	C-CHANNEL FRAMING	1.99 TONS			607.33	
FLOOR FRAMING	LIGHT FLOOR PLATE	5.10 TONS			607.33	
FLOOR FRAMING	W10 X 21 MEMBERS	.32 TONS			607.33	
FLOOR FRAMING	W12 X 27 MEMBERS	3.24 TONS			607.33	
FLOOR FRAMING	W16 X 36 MEMBERS	3.67 TONS			607.33	
FLOOR FRAMING	W8 X 17 MEMBERS	.17 TONS			607.33	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.77 TONS			621.25	
ROOF FRAMING DEMO	MISC. ANGLES	2.64 TONS			621.25	
ROOF FRAMING DEMO	STEEL TRUSSES	3.06 TONS			621.25	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	1.89 TONS			621.25	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	4.93 TONS			621.25	
ROOF FRAMING DEMO	W8 X 31 MEMBERS	.47 TONS			621.25	
ROOF FRAMING DEMO	WT6 X 6 MEMBERS	.21 TONS			621.25	
DOORS	DOORS	ABOVE GRADE	B	66.67	133.33	1.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	400.00 SQFT			579.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	12.44	24.88	2.09
ELECTRICAL DEMO	2" DIAMETER & LESS	69.09 LNFT			579.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	980.00 LNFT			579.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	251.82 LNFT			579.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	546.36 LNFT			579.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	53.64 LNFT			579.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	108.00	216.00	.68
ELECTRICAL DEMO	ELECTRICAL FIXTURES	42.00 EACH			579.50	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			579.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	50.00	100.00	1.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	5.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	555.30	1943.55	11.79
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	617.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	117.90	412.65	.63
EQUIPMENT DEMO	HVAC EQUIPMENT	131.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1344.60	4706.10	7.74
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1494.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	3910.50	13686.75	48.69
EQUIPMENT DEMO	PROCESS EQUIPMENT	4345.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.55	9.11	.51
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			579.50	
PIPING DEMO	2" DIAMETER & LESS	88.14 LNFT			579.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	3.29	6.58	.24
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.93 LNFT			579.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	61.70	215.95	1.31
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	617.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	13.10	45.85	.07
EQUIPMENT DEMO	HVAC EQUIPMENT	131.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	149.40	522.90	.86
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1494.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	434.50	1520.75	5.41
EQUIPMENT DEMO	PROCESS EQUIPMENT	4345.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.51	1.01	.06
PIPING DEMO	2" DIAMETER & LESS	105.08 LNFT			579.50	
PIPING DEMO	2" DIAMETER & LESS	88.14 LNFT			579.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.37	.73	.03
PIPING DEMO	2-1/2" TO 4" DIAMETER	34.93 LNFT			579.50	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	15.95	31.89	4.40
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	3199.99 SQFT			579.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1687.50	2193.75	126.56
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	60.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1025.51	1333.17	76.91
CONCRETE SLAB DEMO	SLAB AT GRADE	33.33 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	2.89 CUYD			.00	

000397

Source: 55A SLAG RECYCLING BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	SLAB AT GRADE	1.76 CUYD		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	272.34	326.81	15.31
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2340.00 SQFT		579.50		
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1170.00 SQFT		579.50		
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1440.00 SQFT		579.50		
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2520.00 SQFT		579.50		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	155.62	186.75	8.59
INT TRANSITE DEMO	INT TRANSITE PANELS	2340.00 SQFT		579.50		
INT TRANSITE DEMO	INT TRANSITE PANELS	1170.00 SQFT		579.50		
INT TRANSITE DEMO	INT TRANSITE PANELS	1440.00 SQFT		579.50		
INT TRANSITE DEMO	INT TRANSITE PANELS	2520.00 SQFT		579.50		
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	72.92	87.50	4.10
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	2000.00 SQFT		621.25		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	26.67	106.67	.06
HVAC DEMO	INSULATION	320.00 SQFT		.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.01	12.05	.01
PIPING DEMO	INSULATION	36.14 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	86.50	103.80	.13
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	540.63 CUFT		.00		
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	2.97	5.95	.10
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	455.00 LNFT		.00		
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	90.00 LNFT		.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1245.00	1494.00	2.80
INSULATION DEMO	INSULATION (BAT)	1170.00 SQFT		579.50		
INSULATION DEMO	INSULATION (BAT)	2340.00 SQFT		579.50		
INSULATION DEMO	INSULATION (BAT)	1440.00 SQFT		579.50		
INSULATION DEMO	INSULATION (BAT)	2520.00 SQFT		579.50		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	400.00	800.00	6.00
MISC. MATERIAL DEMO	MISC. DEBRIS	75.00 CUFT		579.50		
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00 CUFT		579.50		
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT		579.50		
MISC. MATERIAL DEMO	MISC. DEBRIS	75.00 CUFT		579.50		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	454.13	544.96	.69
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	540.63 CUFT		.00		
WINDOWS	WINDOWS	ABOVE GRADE	I	50.00	100.00	1.00
WINDOW DEMO	WINDOWS	300.00 SQFT		579.50		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	55.91	933.77	13.70
COLUMN DEMO	W8 X 24 MEMBERS	1.15 TONS			579.25	
COLUMN DEMO	W8 X 35 MEMBERS	1.75 TONS			579.25	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	3.82 TONS			579.25	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.03 TONS			579.25	
EXT WALL FRMNG DEMO	MISC ANGLE FRAMING	.85 TONS			579.25	
EXT WALL FRMNG DEMO	MISC. ANGLES	.50 TONS			579.25	
EXT WALL FRMNG DEMO	W12 X 36 MEMBERS	.94 TONS			579.25	
EXT WALL FRMNG DEMO	W8 X 24 MEMBERS	.62 TONS			579.25	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.51 TONS			579.25	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.94 TONS			579.25	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	.55 TONS			586.58	
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	1.05 TONS			605.92	
DOORS	DOORS	ABOVE GRADE	B	4.17	8.33	.08
EXT DOOR DEMO	EXT DOORS (MAN & OH)	25.00 SQFT			579.25	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.39	2.77	.23
ELECTRICAL DEMO	2" DIAMETER & LESS	41.82 LNFT			579.25	
ELECTRICAL DEMO	2" DIAMETER & LESS	170.00 LNFT			579.25	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	28.00	56.00	.18
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			579.25	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	40.50	141.75	.90
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	45.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	8.10	28.35	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	9.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	97.20	340.20	.54
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	108.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	283.50	992.25	3.51
EQUIPMENT DEMO	PROCESS EQUIPMENT	315.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	18.82	37.65	1.35
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			579.25	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	4.50	15.75	.10
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	45.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.90	3.15	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	9.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	10.80	37.80	.06
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	108.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	31.50	110.25	.39
EQUIPMENT DEMO	PROCESS EQUIPMENT	315.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	2.09	4.18	.15

000393

Source: 55B SLAG RECYCLING PIT/ELEVATOR Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			579.25	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	5.44	10.87	1.50
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1090.91 SQFT			579.25	
CONCRETE	CONCRETE	BELOW GRADE	E	2440.51	3172.66	183.04
CONCRETE SUMP DEMO	SERVICE PIT AND CONVEYER PIT 1	5.09 CUYD			.00	
CONCRETE SUMP DEMO	SERVICE PIT AND CONVEYER PIT 2	5.68 CUYD			.00	
CONCRETE SUMP DEMO	SERVICE PIT AND CONVEYER PIT 3	7.07 CUYD			.00	
CONCRETE SUMP DEMO	SERVICE PIT AND CONVEYER PIT 4 AND 5	14.07 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH BOTTOM	19.49 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH SIDES	38.98 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	344.84	448.30	25.86
CONCRETE FOOTING DEMO	COLUMN BASE	.83 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	8.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.94 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	92.90	111.47	5.22
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2548.00 SQFT			579.25	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	7.15	8.57	.40
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	196.00 SQFT			579.25	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	9.09	36.36	.02
HVAC DEMO	INSULATION	109.09 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.02	16.06	.01
PIPING DEMO	INSULATION	48.19 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	27.32	32.78	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	170.73 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	143.41	172.09	.22
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	170.73 CUFT			.00	

Source: 56A CP STORAGE WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	133.96	2237.12	32.82
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	5.17 TONS			589.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	13.00 TONS			589.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	2.55 TONS			589.00	
ROOF FRAMING DEMO	MISC STEEL (PLATES ETC)	2.10 TONS			589.00	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	3.00 TONS			589.00	
ROOF FRAMING DEMO	W12 X 26 MEMBERS	7.00 TONS			589.00	
DOORS	DOORS	ABOVE GRADE	B	39.50	79.00	.79
EXT DOOR DEMO	EXT DOORS (MAN & OH)	237.00 SQFT			589.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	12.27	24.55	2.06
ELECTRICAL DEMO	2" DIAMETER & LESS	1875.45 LNFT			589.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			589.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	100.00	200.00	2.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	10.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	3.00	10.50	.02
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	17.00	34.01	1.92
PIPING DEMO	2" DIAMETER & LESS	649.49 LNFT			589.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	40.58	81.15	2.91
PIPING DEMO	2-1/2" TO 4" DIAMETER	387.47 LNFT			589.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	58.62	117.24	2.59
PIPING DEMO	OVER 4" DIAMETER	139.95 LNFT			589.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.00	40.00	.40
LOUVER DEMO	EXT LOUVERS	120.00 SQFT			589.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	13.56	27.12	3.35
METAL WALL PANEL DEMO	EXT. METAL PANELS	6088.00 SQFT			589.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	19.45	38.89	4.80
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	8730.00 SQFT			589.00	
CONCRETE	CONCRETE	BELOW GRADE	E	100.00	130.00	7.50
CONCRETE CURBING DEMO	CURBING	3.70 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3245.14	4218.68	243.39
CONCRETE FOOTING DEMO	FOOTINGS TYPE 1	22.00 CUYD			.00	

000401

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE FOOTING DEMO	FOOTINGS TYPE 2	9.33 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS TYPE 3	3.33 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS TYPE 4	8.25 CUYD		.00		
CONCRETE FOOTING DEMO	FOOTINGS TYPE 5	1.33 CUYD		.00		
CONCRETE GRADE BEAM DEMO	EAST GRADE BEAM AND FOOTING	9.01 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 1	36.00 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 2	16.00 CUYD		.00		
CONCRETE GRADE BEAM DEMO	WEST GRADE BEAM AND FLY	6.72 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS TYPE 1	3.89 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS TYPE 2	2.27 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS TYPE 3	.69 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS TYPE 4	.97 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS TYPE 5	.39 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	4357.50	5664.75	326.81
CONCRETE SLAB DEMO	SLAB AT GRADE	161.39 CUYD		.00		
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	5.31	10.63	.06
CEILING DEMO	CEILING DEMO	85.00 SQFT			589.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	5.83	7.00	.32
INT TRANSITE DEMO	INT TRANSITE PANELS	280.00 SQFT			589.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	22.09	88.35	.05
PIPING DEMO	INSULATION	265.06 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	48.56	58.27	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	303.51 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.65	1.31	.02
ELECTRICAL GROUND DEMO	#2 GROUND	120.00 LNFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	275.00	550.00	4.13
MISC. MATERIAL DEMO	MISC. DEBRIS	275.00 CUFT			589.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	254.95	305.94	.39
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	303.51 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	402.83	805.67	8.06
WINDOW DEMO	WINDOWS	2417.00 SQFT			589.00	

Source: 56B STORAGE SHED (WEST) Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	16.67	33.33	.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	100.00 SQFT			589.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	2.23	4.46	.55
METAL WALL PANEL DEMO	EXT. METAL PANELS	1000.00 SQFT			589.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.94	3.89	.48
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	873.00 SQFT			589.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	31.11	37.33	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	194.44 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	20.00	40.00	.30
MISC. MATERIAL DEMO	MISC. DEBRIS	20.00 CUFT			589.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	163.33	195.99	.25
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	194.44 CUFT			.00	
WOOD	WOOD	ABOVE GRADE	I	120.00	240.00	1.80
ROOF FRAMING DEMO	WOOD FRAMING	120.00 CUFT			589.00	

Source: 56C STORAGE SHED (EAST) Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
DOORS	DOORS	ABOVE GRADE	B	16.67	33.33	.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	100.00 SQFT			589.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.12	6.24	.77
METAL WALL PANEL DEMO	EXT. METAL PANELS	1400.00 SQFT			589.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	3.31	6.61	.82
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1484.00 SQFT			589.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	23.52	28.23	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	147.01 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			589.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	123.49	148.19	.19
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	147.01 CUFT			.00	
WOOD	WOOD	ABOVE GRADE	I	150.00	300.00	2.25
ROOF FRAMING DEMO	WOOD FRAMING	150.00 CUFT			589.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	5087.57	84962.37	1246.45
COLUMN DEMO	W10 X 33 MEMBERS	2.77 TONS				580.00
COLUMN DEMO	W10 X 33 MEMBERS	.50 TONS				580.00
COLUMN DEMO	W10 X 54 MEMBERS	1.48 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	1.44 TONS				580.00
COLUMN DEMO	W12 X 40 MEMBERS	.62 TONS				580.00
COLUMN DEMO	W12 X 45 MEMBERS	.97 TONS				580.00
COLUMN DEMO	W12 X 50 MEMBERS	1.55 TONS				580.00
COLUMN DEMO	W12 X 53 MEMBERS	7.32 TONS				580.00
COLUMN DEMO	W12 X 53 MEMBERS	1.64 TONS				580.00
COLUMN DEMO	W12 X 58 MEMBERS	48.02 TONS				580.00
COLUMN DEMO	W12 X 65 MEMBERS	2.02 TONS				580.00
COLUMN DEMO	W12 X 65 MEMBERS	6.99 TONS				580.00
COLUMN DEMO	W12 X 72 MEMBERS	2.23 TONS				580.00
COLUMN DEMO	W14 X 68 MEMBERS	1.90 TONS				580.00
COLUMN DEMO	W14 X 84 MEMBERS	11.76 TONS				580.00
COLUMN DEMO	W6 X 16 MEMBERS	.81 TONS				580.00
COLUMN DEMO	W8 X 24 MEMBERS	8.30 TONS				580.00
COLUMN DEMO	W8 X 24 MEMBERS	3.24 TONS				580.00
COLUMN DEMO	W8 X 35 MEMBERS	15.47 TONS				580.00
COLUMN DEMO	W8 X 40 MEMBERS	3.68 TONS				580.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	88.91 TONS				580.00
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	5.50 TONS				580.00
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.73 TONS				580.00
MISC. STEEL DEMO	LIGHT FLOOR PLATE	6.12 TONS				580.00
MISC. STEEL DEMO	MISC. ANGLES	.38 TONS				580.00
MISC. STEEL DEMO	S8 X 18.4 MEMBERS	.74 TONS				580.00
MISC. STEEL DEMO	STEEL HANDRAILS	2.60 TONS				580.00
MISC. STEEL DEMO	W10 X 21 MEMBERS	2.52 TONS				580.00
MISC. STEEL DEMO	W8 X 15 MEMBERS	1.08 TONS				580.00
MISC. STEEL DEMO	W8 X 17 MEMBERS	.76 TONS				580.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.99 TONS				592.00
FLOOR FRAMING DEMO	HEAVY FLOOR PLATE	40.80 TONS				592.00
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	78.29 TONS				592.00
FLOOR FRAMING DEMO	STAIR FRAMING	1.50 TONS				592.00
FLOOR FRAMING DEMO	STEEL HANDRAILS	4.00 TONS				592.00
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	28.77 TONS				592.00
FLOOR FRAMING DEMO	W10 X 25 MEMBERS	12.25 TONS				592.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	8.64 TONS				592.00
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	3.10 TONS				592.00
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	4.50 TONS				592.00
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	16.66 TONS				592.00
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	6.00 TONS				592.00
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	67.50 TONS				592.00
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	4.40 TONS				592.00
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	21.70 TONS				592.00
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	8.03 TONS				592.00
FLOOR FRAMING DEMO	W24 X 100 MEMBERS	25.00 TONS				592.00
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	5.04 TONS				592.00
FLOOR FRAMING DEMO	W27 X 102 MEMBERS	5.10 TONS				592.00
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	13.16 TONS				592.00
FLOOR FRAMING DEMO	W5 X 16 MEMBERS	3.59 TONS				592.00

008405

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	3.58 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	3.06 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	6.72 TONS			592.00	
MISC. STEEL DEMO	3I X5.7 MEMBERS	.29 TONS			592.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	7.94 TONS			592.00	
MISC. STEEL DEMO	HEAVY FLOOR PLATE	4.99 TONS			592.00	
MISC. STEEL DEMO	LIGHT FLOOR PLATE	3.16 TONS			592.00	
MISC. STEEL DEMO	MEDIUM FLOOR PLATE	5.89 TONS			592.00	
MISC. STEEL DEMO	MISC STEEL	.50 TONS			592.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			592.00	
MISC. STEEL DEMO	MISC. ANGLES	2.84 TONS			592.00	
MISC. STEEL DEMO	STEEL HANDRAILS	3.00 TONS			592.00	
MISC. STEEL DEMO	STEEL HANDRAILS	2.30 TONS			592.00	
MISC. STEEL DEMO	W10 X 21 MEMBERS	.88 TONS			592.00	
MISC. STEEL DEMO	W12 X 27 MEMBERS	12.42 TONS			592.00	
MISC. STEEL DEMO	W6 X 15 MEMBERS	.90 TONS			592.00	
MISC. STEEL DEMO	W6 X 16 MEMBERS	1.66 TONS			592.00	
MISC. STEEL DEMO	W6 X 20 MEMBERS	1.50 TONS			592.00	
MISC. STEEL DEMO	W8 X 17 MEMBERS	.34 TONS			592.00	
MISC. STEEL DEMO	W8 X 17 MEMBERS	1.51 TONS			592.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.90 TONS			595.00	
ROOF FRAMING DEMO	MISC. ANGLES	1.88 TONS			595.00	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	4.20 TONS			595.00	
ROOF FRAMING DEMO	W10 X 25 MEMBERS	9.50 TONS			595.00	
ROOF FRAMING DEMO	W10 X 49 MEMBERS	.98 TONS			595.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	1.62 TONS			595.00	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	1.60 TONS			595.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	.30 TONS			595.00	
ROOF FRAMING DEMO	W16 X 36 MEMBERS	.72 TONS			595.00	
ROOF FRAMING DEMO	W16 X 40 MEMBERS	1.60 TONS			595.00	
ROOF FRAMING DEMO	W16 X 40 MEMBERS	1.60 TONS			595.00	
ROOF FRAMING DEMO	W18 X 50 MEMBERS	4.95 TONS			595.00	
ROOF FRAMING DEMO	W21 X 62 MEMBERS	1.24 TONS			595.00	
ROOF FRAMING DEMO	WT6 X 18 MEMBERS	1.50 TONS			595.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	3.06 TONS			596.00	
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	5.10 TONS			596.00	
FLOOR FRAMING DEMO	MISC. ANGLES	1.01 TONS			596.00	
FLOOR FRAMING DEMO	STEEL HANDRAILS	2.40 TONS			596.00	
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	.60 TONS			596.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.14 TONS			596.00	
FLOOR FRAMING DEMO	WT6 X 8 MEMBERS	.30 TONS			596.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.44 TONS			601.67	
FLOOR FRAMING DEMO	HEAVY FLOOR PLATE	6.32 TONS			601.67	
FLOOR FRAMING DEMO	MISC. ANGLES	.21 TONS			601.67	
FLOOR FRAMING DEMO	STAIR FRAMING	.32 TONS			601.67	
FLOOR FRAMING DEMO	STEEL HANDRAILS	1.70 TONS			601.67	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	3.12 TONS			601.67	
FLOOR FRAMING DEMO	W16 X 26 MEMBERS	.44 TONS			601.67	
FLOOR FRAMING DEMO	W16 X 31 MEMBERS	.31 TONS			601.67	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	.40 TONS			601.67	
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	.52 TONS			601.67	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	.30 TONS			601.67	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.35 TONS			601.75	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	8.00 TONS				601.75
FLOOR FRAMING DEMO	MISC. ANGLES	.15 TONS				601.75
FLOOR FRAMING DEMO	STAIR FRAMING	.10 TONS				601.75
FLOOR FRAMING DEMO	STEEL HANDRAILS	1.25 TONS				601.75
FLOOR FRAMING DEMO	W10 X 19 MEMBERS	2.83 TONS				601.75
FLOOR FRAMING DEMO	W10 X 45 MEMBERS	1.80 TONS				601.75
FLOOR FRAMING DEMO	W10 X 54 MEMBERS	1.62 TONS				601.75
FLOOR FRAMING DEMO	W12 X 50 MEMBERS	.75 TONS				601.75
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	1.29 TONS				601.75
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.57 TONS				601.75
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	2.05 TONS				601.75
FLOOR FRAMING DEMO	W8 X 35 MEMBERS	.18 TONS				601.75
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS				603.00
MISC. STEEL DEMO	STEEL HANDRAILS	1.90 TONS				603.00
MISC. STEEL DEMO	W10 X 25 MEMBERS	1.56 TONS				603.00
MISC. STEEL DEMO	W8 X 17 MEMBERS	1.73 TONS				603.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.88 TONS				603.50
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	3.67 TONS				603.50
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	2.29 TONS				603.50
FLOOR FRAMING DEMO	MISC. ANGLES	.95 TONS				603.50
FLOOR FRAMING DEMO	STAIR FRAMING	1.20 TONS				603.50
FLOOR FRAMING DEMO	STEEL HANDRAILS	5.00 TONS				603.50
FLOOR FRAMING DEMO	W10 X 17 MEMBERS	1.84 TONS				603.50
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	2.31 TONS				603.50
FLOOR FRAMING DEMO	W12 X 14 MEMBERS	.16 TONS				603.50
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	4.59 TONS				603.50
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.72 TONS				603.50
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	.68 TONS				603.50
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	.41 TONS				603.50
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	2.59 TONS				603.50
FLOOR FRAMING DEMO	W16 X 50 MEMBERS	3.00 TONS				603.50
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	.94 TONS				603.50
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.17 TONS				603.50
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.32 TONS				603.50
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.62 TONS				603.50
FLOOR FRAMING DEMO	WT6 X 11 MEMBERS	.18 TONS				603.50
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	1.09 TONS				603.50
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.27 TONS				604.58
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	6.02 TONS				604.58
FLOOR FRAMING DEMO	STAIR FRAMING	.14 TONS				604.58
FLOOR FRAMING DEMO	STEEL HANDRAILS	.90 TONS				604.58
FLOOR FRAMING DEMO	W12 X 19 MEMBERS	.48 TONS				604.58
FLOOR FRAMING DEMO	W14 X 26 MEMBERS	.52 TONS				604.58
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	1.70 TONS				604.58
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	1.23 TONS				604.58
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.48 TONS				604.58
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	1.18 TONS				604.58
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.74 TONS				604.58
FLOOR FRAMING DEMO	STAIR FRAMING	.24 TONS				608.00
FLOOR FRAMING DEMO	STEEL HANDRAILS	.30 TONS				608.00
FLOOR FRAMING DEMO	W12 X 72 MEMBERS	1.44 TONS				608.00
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	2.38 TONS				608.00
FLOOR FRAMING DEMO	W14 X 53 MEMBERS	.53 TONS				608.00

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	25.50 TONS			608.00	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	5.58 TONS			608.00	
FLOOR FRAMING DEMO	W21 X 68 MEMBERS	2.04 TONS			608.00	
FLOOR FRAMING DEMO	W27 X 84 MEMBERS	1.68 TONS			608.00	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	11.28 TONS			608.00	
ROOF FRAMING DEMO	6WF X 15.5 MEMBERS	.62 TONS			615.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	97.55 TONS			615.50	
ROOF FRAMING DEMO	MISC. ANGLES	48.93 TONS			615.50	
ROOF FRAMING DEMO	ST7WF X 21.5 MEMBERS	3.61 TONS			615.50	
ROOF FRAMING DEMO	STEEL TRUSSES	230.10 TONS			615.50	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	5.67 TONS			615.50	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	15.84 TONS			615.50	
DOORS	DOORS	ABOVE GRADE	B	360.00	720.00	7.20
EXT DOOR DEMO	EXT DOORS (MAN & OH)	2160.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	231.59	463.18	38.92
ELECTRICAL DEMO	2" DIAMETER & LESS	1030.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1072.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1067.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1226.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1377.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	481.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	226.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	294.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	178.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	349.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	236.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1389.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	849.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	683.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	634.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1191.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2550.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2532.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	4529.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	851.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	929.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1524.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	838.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	56.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	315.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2131.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3097.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2160.00 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	174.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1302.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			592.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	419.25	838.49	45.55
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1121.41 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1588.13 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1052.66 LNFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1507.34	LNFT		580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	386.09	LNFT		580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	309.38	LNFT		580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	190.16	LNFT		580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	297.50	LNFT		580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	664.69	LNFT		580.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	330.05	660.10	27.43
ELECTRICAL DEMO	CABLE TRAYS	6.03	LNFT		580.00	
ELECTRICAL DEMO	CABLE TRAYS	8.53	LNFT		580.00	
ELECTRICAL DEMO	CABLE TRAYS	3.31	LNFT		580.00	
ELECTRICAL DEMO	CABLE TRAYS	6.76	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	327.94	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	358.90	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	345.88	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	390.88	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	223.01	LNFT		580.00	
ELECTRICAL DEMO	OVER 4" DIAMETER	345.88	LNFT		580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1492.00	2984.00	9.33
ELECTRICAL DEMO	ELECTRICAL FIXTURES	169.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	102.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	64.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	76.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	122.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	132.00	EACH		580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	81.00	EACH		580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	180.00	360.00	4.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	9.00	EACH		.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	1490.00	2980.00	37.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	149.00	EACH		.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	15714.90	55002.15	334.62
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	17461.00	CUFT		.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3333.60	11667.60	17.91
EQUIPMENT DEMO	HVAC EQUIPMENT	3704.00	CUFT		.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	38043.90	133153.65	219.42
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	42271.00	CUFT		.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	110619.00	387166.50	1378.26
EQUIPMENT DEMO	PROCESS EQUIPMENT	122910.00	CUFT		.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	854.25	1708.50	96.26
PIPING DEMO	2" DIAMETER & LESS	129.83	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	20.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	2949.15	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	90.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	2389.49	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	374.92	LNFT		580.00	

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Source: 5A METALS PRODUCTION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	80.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	250.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	6718.31	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	649.49	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	450.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	3498.98	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	180.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	314.92	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	354.92	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	409.83	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	2430.51	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	5398.64	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	160.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	360.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	4098.98	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	600.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	80.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	629.83	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	225.08	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	1649.83	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	380.68	LNFT		596.00	
PIPING DEMO	2" DIAMETER & LESS	184.75	LNFT		596.00	
PIPING DEMO	2" DIAMETER & LESS	286.78	LNFT		615.50	
PIPING DEMO	2" DIAMETER & LESS	549.83	LNFT		615.50	
PIPING DEMO	2" DIAMETER & LESS	149.83	LNFT		615.50	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	16.49	32.99	1.86
PROCESS WATER DEMO	PA-78-1"W	35.00	LNFT		.00	
PROCESS WATER DEMO	PA-98-1"W	35.00	LNFT		.00	
SANITARY SEWER DEMO	SN-1-2"M1	20.00	LNFT		.00	
SANITARY SEWER DEMO	SN-2"	5.00	LNFT		.00	
SANITARY SEWER DEMO	SN-2-2"M1	20.00	LNFT		.00	
SANITARY SEWER DEMO	SN-5-2"M1	25.00	LNFT		.00	
STEAM CONDENSATE DEMO	CN-8-.5"W	5.00	LNFT		.00	
VENT LINE DEMO	VE-32-2"L1	55.00	LNFT		.00	
VENT LINE DEMO	VE-33-2"L1	50.00	LNFT		.00	
VENT LINE DEMO	VE-34-2"L1	40.00	LNFT		.00	
VENT LINE DEMO	VE-35-2"L1	35.00	LNFT		.00	
VENT LINE DEMO	VE-36-2"L1	40.00	LNFT		.00	
VENT LINE DEMO	VE-37-2"L1	50.00	LNFT		.00	
VENT LINE DEMO	VE-38-2"L1	50.00	LNFT		.00	
VENT LINE DEMO	VE-39-2"L1	40.00	LNFT		.00	
VENT LINE DEMO	VE-40-2"L1	35.00	LNFT		.00	
VENT LINE DEMO	VE-41-2"L1	40.00	LNFT		.00	
VENT LINE DEMO	VE-42-2"L1	50.00	LNFT		.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1031.40	2062.79	73.87
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	419.47	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3060.93	LNFT		580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	Cat	FS Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2416.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	780.00 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	104.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	124.80 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	669.20 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	634.13 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	699.07 LNFT			596.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	89.87 LNFT			596.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	314.53 LNFT			615.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	284.67 LNFT			615.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	957.73 LNFT			615.50	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	6.81	13.61	.49
SANITARY SEWER DEMO	SN-4"	65.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	651.26	1302.51	28.76
PIPING DEMO	OVER 4" DIAMETER	179.95 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	264.92 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	179.95 LNFT			580.00	
PIPING DEMO	OVER 4" DIAMETER	609.84 LNFT			615.50	
PIPING DEMO	OVER 4" DIAMETER	492.86 LNFT			615.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1746.10	6111.35	37.18
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	17461.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	370.40	1296.40	1.99
EQUIPMENT DEMO	HVAC EQUIPMENT	3704.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	4227.10	14794.85	24.38
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	42271.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	12291.00	43018.50	153.14
EQUIPMENT DEMO	PROCESS EQUIPMENT	122910.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	94.92	189.83	10.70
PIPING DEMO	2" DIAMETER & LESS	129.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	20.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	2949.15 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	90.17 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	2389.49 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	374.92 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	250.17 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	6718.31 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	649.49 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	450.17 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	3498.98 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	180.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	314.92 LNFT			580.00	

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Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	354.92	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	409.83	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	2430.51	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	5398.64	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	160.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	360.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	4098.98	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	600.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	80.00	LNFT		580.00	
PIPING DEMO	2" DIAMETER & LESS	629.83	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	225.08	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	70.17	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	1649.83	LNFT		592.00	
PIPING DEMO	2" DIAMETER & LESS	380.68	LNFT		596.00	
PIPING DEMO	2" DIAMETER & LESS	184.75	LNFT		596.00	
PIPING DEMO	2" DIAMETER & LESS	286.78	LNFT		615.50	
PIPING DEMO	2" DIAMETER & LESS	549.83	LNFT		615.50	
PIPING DEMO	2" DIAMETER & LESS	149.83	LNFT		615.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	114.60	229.20	8.21
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	419.47	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3060.93	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	79.87	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	69.87	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2416.80	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	780.00	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	104.80	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	124.80	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	669.20	LNFT		580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	634.13	LNFT		592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	122.80	LNFT		592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	699.07	LNFT		596.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	89.87	LNFT		596.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	314.53	LNFT		615.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	284.67	LNFT		615.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	957.73	LNFT		615.50	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	21.47	42.94	1.54
COOLING WATER RETURN DEMO	WR-XX-4"W	120.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-3-3"L1	10.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-4-3"L1	10.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-4-4"L1	45.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-5-3"L1	10.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-6-3"L1	10.00	LNFT		.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	72.36	144.72	3.20
PIPING DEMO	OVER 4" DIAMETER	179.95	LNFT		580.00	
PIPING DEMO	OVER 4" DIAMETER	264.92	LNFT		580.00	
PIPING DEMO	OVER 4" DIAMETER	179.95	LNFT		580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	OVER 4" DIAMETER	609.84 LNFT			615.50	
PIPING DEMO	OVER 4" DIAMETER	492.86 LNFT			615.50	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	67.02	134.04	2.96
COOLING WATER RETURN DEMO	WR-20-10"W	30.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-21-10"W	30.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-23-12"W	50.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-24-12"W	50.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	454.48	908.96	125.40
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	91199.66 SQFT			596.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	2.96	5.92	1.05
LEAD FLASHING DEMO	LEAD FLASHING	2100.00 LBS			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.00	40.00	.40
LOUVER DEMO	EXT LOUVERS	120.00 SQFT			580.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	5072.00	6593.61	380.40
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	187.85 CUYD			592.00	
CONCRETE	CONCRETE	BELOW GRADE	E	40.00	52.00	3.00
CONCRETE SUMP DEMO	PIT	1.48 CUYD			.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	1205.60	1567.29	90.42
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	44.65 CUYD			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	12963.88	16853.04	972.29
CONCRETE FOOTING DEMO	FOOTING A26,27,28,F26,27	27.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A1	1.16 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A19-A24, F19-F24	32.65 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A2, A3, A4, F3, F4	14.81 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A25, F25	6.30 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A5-A18, F5-F18	63.52 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B1, C1, D1	7.30 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B2-B4, C2-C4, D2-D4, E3,4	32.59 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B25, E25	12.25 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B29,C29	7.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING B5, C5, D5, E5	6.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C25,D25	11.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING C26,B26,D26	28.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING E1, E2	5.56 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F1	1.15 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING F2	4.07 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING TYPE 1, 1A	4.74 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING TYPE I	4.74 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING TYPE II	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING TYPE II	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A29	1.86 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS D28,E28	6.82 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS D29	2.16 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS DETAIL N	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS E26,D27,C27,C28,B27,B28	44.74 CUYD			.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE FOOTING DEMO	FOOTINGS E29	1.40 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F28	3.22 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS F29	1.40 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS TYPE I	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS TYPE III	1.74 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS TYPE VI	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS TYPE VII	1.19 CUYD			.00	
CONCRETE FOOTING DEMO	NEW FOOTINGS	11.20 CUYD			.00	
CONCRETE FOOTING DEMO	NEW FOOTINGS	24.33 CUYD			.00	
CONCRETE FOOTING DEMO	NEW FOOTINGS AA-19	1.40 CUYD			.00	
CONCRETE FOOTING DEMO	NEW FOOTINGS B20	4.70 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	13.09 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.25 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	11.30 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (SOUTH WALL)	3.12 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (WEST, EAST, & NORTH SIDE)	18.06 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A25,F25	.60 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A26,27,28,F26,27	2.01 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A1	.30 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL A1	.30 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL F2	.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.31 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.83 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.31 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.91 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.83 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.83 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.12 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.84 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.40 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.25 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.62 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.16 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.41 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.58 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.29 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A19-A24, F19-F24	3.61 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A2, A3, A4, F3, F4	1.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A29	.31 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A5-A18, F5-F18	8.42 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS B1, C1, D1	.90 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS B2-B4, C2-C4, D2-D4, E3,4	3.31 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS B25, E25	.94 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS B5, C5, D5, E5	1.24 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS E1, E2	.60 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F28	.32 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS F29	.31 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	B	12965.64	16855.34	972.42
CONCRETE SLAB DEMO	CONCRETE SLABS	7.00 CUYD			592.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	63.73 CUYD			592.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	CONCRETE SLABS	118.90	CUYD	592.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	42.00	CUYD	592.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	84.48	CUYD	592.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	7.00	CUYD	592.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	14.82	CUYD	603.00		
FLOOR FRAMING DEMO	CONCRETE SLABS	23.46	CUYD	603.50		
CONCRETE SLAB DEMO	CONCRETE SLABS	118.83	CUYD	608.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	43389.00	56405.70	3254.17
CONCRETE SLAB DEMO	CONCRETE SLABS	11.98	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	204.67	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	657.00	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	113.78	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	144.57	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	327.86	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	93.67	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	17.32	CUYD	.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	36.14	CUYD	.00		
PIPING	CLAY PIPING	BELOW GRADE	E	4.24	5.52	.30
STORM SEWER DEMO	ST UNIDENTIFIED	5.00	LNFT	.00		
STORM SEWER DEMO	ST-1-1.5"N1	25.00	LNFT	.00		
STORM SEWER DEMO	ST-2-1.5"N1	20.00	LNFT	.00		
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	1352.00	1757.60	94.64
FIRE BRICK DEMO	FIRE BRICK IN ROCKWELL FURNACES	4056.00	SQFT	.00		
TILE	FLOOR TILE	AT GRADE	G	23.33	28.00	1.12
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	1120.00	SQFT	.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	1731.77	2078.12	97.38
EXT TRANSITE DEMO	EXT TRANSITE PANELS	47500.00	SQFT	580.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	1312.50	1575.00	72.45
INT TRANSITE DEMO	INT TRANSITE PANELS	63000.00	SQFT	580.00		
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	2296.87	2756.25	129.15
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	63000.00	SQFT	580.00		
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	760.00	3039.99	1.71
HVAC DEMO	INSULATION	9119.97	SQFT	.00		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	709.84	2839.36	1.60
PIPING DEMO	INSULATION	8518.07	SQFT	.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	183.63	220.35	.28
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1147.66	CUFT	.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	11633.33	13960.00	26.18
INSULATION DEMO	INSULATION (BAT)	63000.00	SQFT	580.00		
INSULATION DEMO	INSULATION (RIGID)	6800.00	SQFT	615.50		
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1550.00	3100.00	23.25

Source: 5A METALS PRODUCTION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MISC. MATERIAL DEMO	MISC. DEBRIS	1550.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	964.04	1156.84	1.46
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1147.66 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	566.67	1133.33	20.40
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	6800.00 SQFT			615.50	
WINDOWS	WINDOWS	ABOVE GRADE	I	2083.33	4166.67	41.67
WINDOW DEMO	WINDOWS	12500.00 SQFT			580.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	58.73	980.87	14.39
COLUMN DEMO	W12 X 40 MEMBERS	3.60 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.79 TONS			580.00	
FLOOR FRAMING DEMO	W12 X 53 MEMBERS	2.00 TONS			580.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	1.50 TONS			580.00	
ROOF FRAMING DEMO	W12 X 50 MEMBERS	5.50 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	51.67	103.33	1.03
EXT DOOR DEMO	EXT DOORS	310.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.05	4.11	.34
ELECTRICAL DEMO	2" DIAMETER & LESS	313.64 LNFT			592.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	32.00	64.00	.20
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00 EACH			592.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	228.60	800.10	4.86
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	254.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	48.60	170.10	.27
EQUIPMENT DEMO	HVAC EQUIPMENT	54.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	552.60	1934.10	3.15
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	614.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1607.40	5625.90	20.07
EQUIPMENT DEMO	PROCESS EQUIPMENT	1786.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	34.39	68.78	3.88
PIPING DEMO	2" DIAMETER & LESS	460.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	999.66 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	8.47	16.94	.61
PIPING DEMO	2-1/2" TO 4" DIAMETER	89.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	11.31	22.62	.50
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			592.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	25.40	88.90	.54
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	254.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	5.40	18.90	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	54.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	61.40	214.90	.35
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	614.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	178.60	625.10	2.23
EQUIPMENT DEMO	PROCESS EQUIPMENT	1786.00 CUFT			.00	

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Source: 5B PLANT 5 INGOT PICKLING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	3.82	7.64	.43
PIPING DEMO	2" DIAMETER & LESS	460.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	999.66 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.94	1.88	.07
PIPING DEMO	2-1/2" TO 4" DIAMETER	89.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	1.26	2.51	.06
PIPING DEMO	OVER 4" DIAMETER	30.00 LNFT			592.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	3.33	6.67	.07
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	4.68	9.36	1.16
METAL WALL PANEL DEMO	EXT. METAL PANELS	2100.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	4.12	8.24	1.02
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1850.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	741.51	963.97	55.61
CONCRETE EQUIPMENT FNDN DEMO	CONVEYER AND OVEN FNDN.	4.08 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	CONVEYER AND OVEN FNDN.	5.83 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWELL INTO PIT	7.87 CUYD			.00	
CONCRETE SUMP DEMO	WALL AROUND PIT	7.88 CUYD			.00	
CONCRETE SUMP DEMO	WALL AROUND PIT	1.80 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	211.25	274.63	15.84
CONCRETE FOOTING DEMO	FOOTINGS	6.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.16 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	793.00	1030.90	59.47
CONCRETE SLAB DEMO	NITRIC ACID TANK SLAB AT GRADE	3.11 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	6.05 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	6.05 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	3.60 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	10.56 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	243.33	316.33	18.25
CONCRETE SLAB DEMO	SLAB AT BOTTOM OF PIT	9.01 CUYD			.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	1254.17	1630.42	94.06
CONCRETE WALL DEMO	FOUNDATION WALL	34.78 CUYD			.00	
CONCRETE WALL DEMO	WALLS	11.67 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	19.08	76.31	.04
PIPING DEMO	INSULATION	228.92 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	45.53	54.63	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	284.54 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	239.02	286.82	.36
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	284.54 CUFT			.00	

Source: 5B PLANT 5 INGOT PICKLING Component Category: 4

Material	Material Description	Grade Level	Cat	FS Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	8.16	136.33	2.00
COLUMN DEMO	W12 X 40 MEMBERS	1.00 TONS			580.00	
ROOF FRAMING DEMO	W12 X 50 MEMBERS	1.00 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	33.33	66.67	.67
EXT DOOR DEMO	EXT DOORS	200.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.50	1.00	.08
ELECTRICAL DEMO	2" DIAMETER & LESS	76.36 LNFT			598.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	13.08	26.16	1.09
ELECTRICAL DEMO	OVER 4" DIAMETER	79.93 LNFT			598.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			598.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	58.50	204.75	1.26
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	65.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	12.60	44.10	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	14.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	142.20	497.70	.81
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	158.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	412.20	1442.70	5.13
EQUIPMENT DEMO	PROCESS EQUIPMENT	458.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	14.02	28.03	1.58
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	294.92 LNFT			589.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	63.54	127.07	4.55
PIPING DEMO	2-1/2" TO 4" DIAMETER	674.13 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	6.50	22.75	.14
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	65.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1.40	4.90	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	14.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	15.80	55.30	.09
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	158.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	45.80	160.30	.57
EQUIPMENT DEMO	PROCESS EQUIPMENT	458.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.56	3.11	.18
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			580.00	

Source: 5C PLANT 5 ELECTRICAL SUBSTATION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	294.92 LNFT			589.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	7.06	14.12	.51
PIPING DEMO	2-1/2" TO 4" DIAMETER	674.13 LNFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	1.67	3.34	.41
METAL WALL PANEL DEMO	EXT. METAL PANELS	750.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.11	2.23	.28
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	500.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	204.97	266.46	15.37
CONCRETE FOOTING DEMO	FOOTINGS	3.47 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.12 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	720.00	936.00	54.00
CONCRETE SLAB DEMO	SLAB AT GRADE	26.67 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	21.08	84.34	.05
PIPING DEMO	INSULATION	253.01 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	26.56	11.87	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	139.43	167.31	.21
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.83	21.67	.22
WINDOW DEMO	WINDOWS	65.00 SQFT			580.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1553.36	25941.03	380.57
COLUMN DEMO	W12 X 40 MEMBERS	.96 TONS			580.00	
COLUMN DEMO	W12 X 40 MEMBERS	3.50 TONS			580.00	
COLUMN DEMO	W12 X 53 MEMBERS	3.50 TONS			580.00	
COLUMN DEMO	W21 X 101 MEMBERS	4.34 TONS			580.00	
COLUMN DEMO	W21 X 101 MEMBERS	9.29 TONS			580.00	
COLUMN DEMO	W21 X 101 MEMBERS	8.28 TONS			580.00	
COLUMN DEMO	W21 X 122 MEMBERS	13.12 TONS			580.00	
COLUMN DEMO	W21 X 147 MEMBERS	9.48 TONS			580.00	
COLUMN DEMO	W21 X 62 MEMBERS	3.26 TONS			580.00	
COLUMN DEMO	W21 X 62 MEMBERS	4.03 TONS			580.00	
COLUMN DEMO	W8 X 24 MEMBERS	1.15 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL GIRTS	25.95 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.34 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.17 TONS			580.00	
MISC. STEEL DEMO	MEDIUM FLOOR PLATE	4.99 TONS			580.00	
MISC. STEEL DEMO	W10 X 21 MEMBERS	.99 TONS			580.00	
MISC. STEEL DEMO	W10 X 33 MEMBERS	.89 TONS			580.00	
MISC. STEEL DEMO	W6 X 15 MEMBERS	1.13 TONS			580.00	
MISC. STEEL DEMO	W8 X 24 MEMBERS	1.34 TONS			580.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.44 TONS			592.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.77 TONS			592.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.54 TONS			592.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	2.05 TONS			592.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.58 TONS			592.00	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.41 TONS			592.00	
FLOOR FRAMING DEMO	HEAVY FLOOR PLATE	20.48 TONS			592.00	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	10.43 TONS			592.00	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	10.24 TONS			592.00	
FLOOR FRAMING DEMO	METAL DECKING	.57 TONS			592.00	
FLOOR FRAMING DEMO	MISC. ANGLES	.25 TONS			592.00	
FLOOR FRAMING DEMO	MISC. ANGLES	.60 TONS			592.00	
FLOOR FRAMING DEMO	STEEL HANDRAILS	1.40 TONS			592.00	
FLOOR FRAMING DEMO	STEEL HANDRAILS	.20 TONS			592.00	
FLOOR FRAMING DEMO	W10 X 49 MEMBERS	.39 TONS			592.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.43 TONS			592.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.26 TONS			592.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.82 TONS			592.00	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	.12 TONS			592.00	
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	.44 TONS			592.00	
FLOOR FRAMING DEMO	W16 X 26 MEMBERS	2.60 TONS			592.00	
FLOOR FRAMING DEMO	W16 X 31 MEMBERS	.62 TONS			592.00	
FLOOR FRAMING DEMO	W16 X 31 MEMBERS	2.17 TONS			592.00	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	3.60 TONS			592.00	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	1.80 TONS			592.00	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	9.60 TONS			592.00	
FLOOR FRAMING DEMO	W18 X 45 MEMBERS	.47 TONS			592.00	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	5.00 TONS			592.00	
FLOOR FRAMING DEMO	W18 X 60 MEMBERS	.60 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 104 MEMBERS	3.12 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 145 MEMBERS	2.92 TONS			592.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING DEMO	W24 X 55 MEMBERS	.28 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 55 MEMBERS	.83 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 55 MEMBERS	1.10 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	1.02 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	2.72 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	.27 TONS			592.00	
FLOOR FRAMING DEMO	W24 X 94 MEMBERS	1.41 TONS			592.00	
FLOOR FRAMING DEMO	W30 X 108 MEMBERS	1.62 TONS			592.00	
FLOOR FRAMING DEMO	W30 X 116 MEMBERS	1.74 TONS			592.00	
FLOOR FRAMING DEMO	W30 X 99 MEMBERS	1.49 TONS			592.00	
FLOOR FRAMING DEMO	W30 X 99 MEMBERS	.99 TONS			592.00	
FLOOR FRAMING DEMO	W33 X 118 MEMBERS	1.77 TONS			592.00	
FLOOR FRAMING DEMO	W33 X 118 MEMBERS	1.59 TONS			592.00	
FLOOR FRAMING DEMO	W33 X 200 MEMBERS	3.02 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.45 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.45 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	1.50 TONS			592.00	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.93 TONS			592.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.18 TONS			592.00	
MISC. STEEL DEMO	MISC. ANGLES	.09 TONS			592.00	
MISC. STEEL DEMO	W12 X 27 MEMBERS	.14 TONS			592.00	
MISC. STEEL DEMO	W14 X 34 MEMBERS	.51 TONS			592.00	
MISC. STEEL DEMO	W16 X 40 MEMBERS	.80 TONS			592.00	
MISC. STEEL DEMO	W24 X 55 MEMBERS	.83 TONS			592.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	3.53 TONS			592.50	
ROOF FRAMING DEMO	MISC. ANGLES	.21 TONS			592.50	
ROOF FRAMING DEMO	THREADED RODS	.05 TONS			592.50	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	5.31 TONS			592.50	
ROOF FRAMING DEMO	WT4 X 8 MEMBERS	.31 TONS			592.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.61 TONS			603.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.21 TONS			603.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	5.44 TONS			603.50	
FLOOR FRAMING DEMO	STEEL HANDRAILS	1.50 TONS			603.50	
FLOOR FRAMING DEMO	TUBE STEEL FRAMING	.15 TONS			603.50	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.50 TONS			603.50	
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	.23 TONS			603.50	
FLOOR FRAMING DEMO	W10 X 45 MEMBERS	1.35 TONS			603.50	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.82 TONS			603.50	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	1.13 TONS			603.50	
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	.51 TONS			603.50	
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	2.38 TONS			603.50	
FLOOR FRAMING DEMO	W14 X 34 MEMBERS	.51 TONS			603.50	
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	.86 TONS			603.50	
FLOOR FRAMING DEMO	W16 X 40 MEMBERS	.40 TONS			603.50	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	2.79 TONS			603.50	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.14 TONS			603.50	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.96 TONS			603.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.69 TONS			607.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.81 TONS			607.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	13.76 TONS			607.50	
FLOOR FRAMING DEMO	STEEL HANDRAILS	.70 TONS			607.50	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	2.03 TONS			607.50	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	.48 TONS			607.50	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	4.68 TONS			607.50	
FLOOR FRAMING DEMO	W12 X 50 MEMBERS	.98 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	3.60 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	.96 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	.75 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	4.00 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 77 MEMBERS	1.52 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 85 MEMBERS	1.72 TONS			607.50	
FLOOR FRAMING DEMO	W18 X 96 MEMBERS	2.91 TONS			607.50	
FLOOR FRAMING DEMO	W24 X 55 MEMBERS	1.10 TONS			607.50	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	.68 TONS			607.50	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	1.14 TONS			607.50	
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	.94 TONS			607.50	
FLOOR FRAMING DEMO	W30 X 99 MEMBERS	1.49 TONS			607.50	
FLOOR FRAMING DEMO	W36 X 182 MEMBERS	8.19 TONS			607.50	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.37 TONS			607.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.73 TONS			616.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	5.76 TONS			616.50	
FLOOR FRAMING DEMO	STEEL HANDRAILS	.70 TONS			616.50	
FLOOR FRAMING DEMO	W10 X 49 MEMBERS	.49 TONS			616.50	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	.90 TONS			616.50	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	2.80 TONS			616.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	.50 TONS			616.50	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	.80 TONS			616.50	
FLOOR FRAMING DEMO	W18 X 85 MEMBERS	1.72 TONS			616.50	
FLOOR FRAMING DEMO	W21 X 49 MEMBERS	.75 TONS			616.50	
FLOOR FRAMING DEMO	W24 X 94 MEMBERS	1.41 TONS			616.50	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.67 TONS			616.50	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.28 TONS			616.50	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.46 TONS			616.50	
MISC. STEEL DEMO	MEDIUM FLOOR PLATE	1.28 TONS			616.50	
MISC. STEEL DEMO	W12 X 31 MEMBERS	.60 TONS			616.50	
MISC. STEEL DEMO	W12 X 40 MEMBERS	.32 TONS			616.50	
MISC. STEEL DEMO	W18 X 40 MEMBERS	1.36 TONS			616.50	
MISC. STEEL DEMO	W18 X 50 MEMBERS	.60 TONS			616.50	
MISC. STEEL DEMO	W8 X 24 MEMBERS	.48 TONS			616.50	
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	1.07 TONS			620.50	
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	5.12 TONS			620.50	
FLOOR FRAMING DEMO	MISC. ANGLES	.10 TONS			620.50	
FLOOR FRAMING DEMO	STEEL HANDRAILS	.60 TONS			620.50	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	2.25 TONS			620.50	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	4.00 TONS			620.50	
FLOOR FRAMING DEMO	W21 X 82 MEMBERS	1.25 TONS			620.50	
FLOOR FRAMING DEMO	W24 X 100 MEMBERS	1.56 TONS			620.50	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	1.14 TONS			620.50	
FLOOR FRAMING DEMO	W8 X 31 MEMBERS	.70 TONS			620.50	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.61 TONS			621.50	
MISC. STEEL DEMO	S12 X 31.8 MEMBERS	.64 TONS			621.50	
MISC. STEEL DEMO	STEEL GRATING	.48 TONS			621.50	
MISC. STEEL DEMO	W10 X 25 MEMBERS	.13 TONS			621.50	
MISC. STEEL DEMO	W12 X 27 MEMBERS	.20 TONS			621.50	
MISC. STEEL DEMO	W12 X 27 MEMBERS	.52 TONS			621.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	6.74 TONS			621.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ROOF FRAMING DEMO	MISC. ANGLES	.20 TONS			621.50	
ROOF FRAMING DEMO	THREADED RODS	.11 TONS			621.50	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	5.40 TONS			621.50	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	2.40 TONS			621.50	
ROOF FRAMING DEMO	W18 X 40 MEMBERS	3.20 TONS			621.50	
ROOF FRAMING DEMO	WT6 X 18 MEMBERS	2.77 TONS			621.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	6.28 TONS			644.50	
ROOF FRAMING DEMO	MISC STEEL	.65 TONS			644.50	
ROOF FRAMING DEMO	MISC. ANGLES	.20 TONS			644.50	
ROOF FRAMING DEMO	THREADED RODS	.10 TONS			644.50	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	3.00 TONS			644.50	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	.60 TONS			644.50	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	.80 TONS			644.50	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	1.80 TONS			644.50	
ROOF FRAMING DEMO	W12 X 53 MEMBERS	.80 TONS			644.50	
ROOF FRAMING DEMO	W14 X 34 MEMBERS	1.02 TONS			644.50	
ROOF FRAMING DEMO	W18 X 55 MEMBERS	4.40 TONS			644.50	
ROOF FRAMING DEMO	W18 X 60 MEMBERS	1.20 TONS			644.50	
ROOF FRAMING DEMO	WT6 X 18 MEMBERS	2.77 TONS			644.50	
DOORS	DOORS	ABOVE GRADE	B	96.67	193.33	1.93
EXT DOOR DEMO	EXT DOORS	580.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	65.88	131.77	11.07
ELECTRICAL DEMO	2" DIAMETER & LESS	767.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	794.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	559.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	512.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	278.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	46.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	409.09 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1602.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	388.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1218.18 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	866.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	157.27 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	641.82 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	84.55 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	903.64 LNFT			592.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	836.36 LNFT			603.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	276.00	552.00	1.73
ELECTRICAL DEMO	ELECTRICAL FIXTURES	28.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	17.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	24.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	16.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	19.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50

000425

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat.	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	190.00	380.00	4.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	19.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2002.50	7008.75	42.66
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2225.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	424.80	1486.80	2.25
EQUIPMENT DEMO	HVAC EQUIPMENT	472.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	4847.40	16965.90	27.99
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	5386.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	14095.80	49335.30	175.59
EQUIPMENT DEMO	PROCESS EQUIPMENT	15662.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	162.66	325.31	18.33
PIPING DEMO	2" DIAMETER & LESS	1274.58 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	625.08 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	90.17 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1499.66 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	849.83 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	789.83 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	189.83 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	400.00 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	519.66 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	514.92 LNFT			607.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	116.24	232.48	8.32
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	524.27 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			603.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	274.67 LNFT			607.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	37.70	75.40	1.66
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			603.50	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			607.50	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	222.50	778.75	4.74
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2225.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	47.20	165.20	.25
EQUIPMENT DEMO	HVAC EQUIPMENT	472.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	538.60	1885.10	3.11
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	5386.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1566.20	5481.70	19.51
EQUIPMENT DEMO	PROCESS EQUIPMENT	15662.00 CUFT			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	18.07	36.15	2.04
PIPING DEMO	2" DIAMETER & LESS	1274.58 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	625.08 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	90.17 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	149.83 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	1499.66 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	849.83 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	789.83 LNFT			592.00	
PIPING DEMO	2" DIAMETER & LESS	189.83 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	400.00 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	519.66 LNFT			603.50	
PIPING DEMO	2" DIAMETER & LESS	514.92 LNFT			607.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	12.92	25.83	.92
PIPING DEMO	2-1/2" TO 4" DIAMETER	259.60 LNFT			580.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	524.27 LNFT			592.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			603.50	
PIPING DEMO	2-1/2" TO 4" DIAMETER	274.67 LNFT			607.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	4.19	8.38	.18
PIPING DEMO	OVER 4" DIAMETER	60.00 LNFT			603.50	
PIPING DEMO	OVER 4" DIAMETER	40.00 LNFT			607.50	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	7.61	15.22	2.10
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1527.27 SQFT			580.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.00	40.00	.40
LOUVER DEMO	EXT LOUVERS	120.00 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	31.63	63.26	7.81
METAL WALL PANEL DEMO	EXT. METAL PANELS	14200.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	23.39	46.78	5.78
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	10500.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	B	860.12	1118.16	64.51
CONCRETE WALL DEMO	ELEVATOR PIT	4.38 CUYD			.00	
CONCRETE WALL DEMO	TUNNEL SLIDES	27.48 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	5027.50	6535.75	377.06
CONCRETE FOOTING DEMO	FOOTING A1,20	12.22 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A1-19	18.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A2 18,19, A1,17,18	42.67 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING A2-16,17,20, A15-20,A1-16	37.04 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	68.52 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A 1-20	.65 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A1 17,18	1.11 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A1-16	.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A1-19	.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A2 18,19	1.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS A2-16,17,A1.5,20	2.00 CUYD			.00	

Source: 5D WEST DERBY BREAKOUT/ SLAG MILLING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS A2-20	.78 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	222.99	289.89	16.72
CONCRETE SLAB DEMO	CONCRETE SLABS	8.26 CUYD			592.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	4266.00	5545.80	319.95
CONCRETE SLAB DEMO	SLAB AT GRADE	158.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	848.00	1102.40	63.60
CONCRETE SLAB DEMO	SLAB @ BOTTOM	31.41 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	12.73	50.91	.03
HVAC DEMO	INSULATION	152.73 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	106.42	425.70	.24
PIPING DEMO	INSULATION	1277.11 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	147.96	177.56	.22
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	924.77 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	776.81	932.17	1.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	924.77 CUFT			.00	

Source: 5E PLANT 5 FILTER BUILDING Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	38.02	634.94	9.32
COLUMN DEMO	W12 X 40 MEMBERS	3.90 TONS			580.00	
FLOOR FRAMING DEMO	W12 X 65 MEMBERS	1.00 TONS			580.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	.50 TONS			580.00	
ROOF FRAMING DEMO	W12 X 50 MEMBERS	3.92 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	26.67	53.33	.53
EXT DOOR DEMO	EXT DOORS (MAN & OH)	160.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	6.65	13.29	1.12
ELECTRICAL DEMO	2" DIAMETER & LESS	1015.45 LNFT			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	11.36	22.72	2.81
METAL WALL PANEL DEMO	EXT. METAL PANELS	5100.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	8.69	17.37	2.15
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	3900.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1504.46	1955.80	112.83
CONCRETE FOOTING DEMO	FOOTINGS	36.13 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	13.24 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	6.35 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2320.93	3017.21	174.07
CONCRETE SLAB DEMO	SLAB AT GRADE	2.24 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	83.72 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	E	26.56	31.87	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	125.00	250.00	1.88
MISC. MATERIAL DEMO	MISC. DEBRIS	125.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	139.43	167.31	.21
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	165.98 CUFT			.00	

000429

Source: 5F PLANT 5 COVERED STORAGE PAD Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	143.16	2390.83	35.08
COLUMN DEMO	W12 X 40 MEMBERS	9.00 TONS			580.00	
EXT WALL FRMNG DEMO	W12 X 50 MEMBERS	14.00 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	12.08 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.53	9.06	.76
ELECTRICAL DEMO	2" DIAMETER & LESS	691.82 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	64.00	128.00	.40
ELECTRICAL DEMO	ELECTRICAL FIXTURES	32.00 EACH			580.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	130.00	260.00	3.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	13.00 EACH			.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	27.40	54.80	6.77
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	12300.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1013.56	1317.62	76.02
CONCRETE FOOTING DEMO	FOOTING A1,C1	1.85 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A2,C2	3.70 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A3,4,5,6,7,C3,4	10.37 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS A8	1.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS B6,7,8	1.78 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS C5	2.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	11.72 CUYD			.00	
CONCRETE PEDESTAL DEMO	ALL PEDESTALS	4.67 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	7485.97	9731.76	561.45
CONCRETE SLAB DEMO	SLAB AT GRADE	170.28 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	106.98 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	29.59	35.51	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	184.95 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	125.00	250.00	1.88
MISC. MATERIAL DEMO	MISC. DEBRIS	125.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	155.36	186.43	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	184.95 CUFT			.00	

Source: 5G PLANT 5 INGOT STORAGE SHELTER Component Category: 2

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE		A	25.51	426.02	6.25
COLUMN DEMO	W12 X 40 MEMBERS		2.00 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING		.25 TONS			580.00	
ROOF FRAMING DEMO	W12 X 50 MEMBERS		4.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE		B	1.33	2.65	.22
ELECTRICAL DEMO	2" DIAMETER & LESS		202.73 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE		B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES		6.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE		B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS		2.00 EACH			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE		D	1.11	2.23	.28
METAL WALL PANEL DEMO	EXT. METAL PANELS		500.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE		D	5.57	11.14	1.38
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)		2500.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE		E	145.33	188.93	10.90
CONCRETE FOOTING DEMO	FOOTINGS		4.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS		.94 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	1213.33	1577.33	91.00
CONCRETE SLAB DEMO	SLAB AT GRADE		44.94 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	8.35	10.02	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		52.17 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE		I	25.00	50.00	.38
MISC. MATERIAL DEMO	MISC. DEBRIS		25.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	43.82	52.58	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		52.17 CUFT			.00	

000431

Source: 60 QUONSET HUT #1 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	46.29	772.97	11.14
COLUMN DEMO	W8 X 24 MEMBERS	11.34 TONS			595.00	
DOORS	DOORS	ABOVE GRADE	B	41.17	82.33	.82
EXT DOOR DEMO	EXT DOORS (MAN & OH)	247.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.65	5.31	.45
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			595.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	6.00 EACH			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	6.00	21.00	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	16.98	33.97	4.19
METAL WALL PANEL DEMO	EXT. METAL PANELS	7625.00 SQFT			595.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	13200.72	17160.94	990.05
CONCRETE GRADE BEAM DEMO	GRADE BEAM	488.92 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2474.35	3216.65	185.58
CONCRETE SLAB DEMO	SLAB AT GRADE	91.64 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	9.11	10.93	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	47.80	57.36	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	6.67	13.33	.13
WINDOW DEMO	WINDOWS	40.00 SQFT			595.00	

Source: 61 QUONSET HUT #2 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.69	412.25	6.05
COLUMN DEMO	W8 X 24 MEMBERS	6.05 TONS			595.00	
DOORS	DOORS	ABOVE GRADE	B	65.33	130.67	1.31
EXT DOOR DEMO	EXT DOORS (MAN & OH)	392.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.99	1.99	.17
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82 LNFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.18	2.36	.13
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			595.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	14.10	28.20	3.48
METAL WALL PANEL DEMO	EXT. METAL PANELS	6330.00 SQFT			595.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	402.00	522.60	30.15
CONCRETE GRADE BEAM DEMO	GRADE BEAM	14.89 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1657.80	2155.14	124.34
CONCRETE SLAB DEMO	SLAB AT GRADE	61.40 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	11.38	13.66	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	71.14 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	59.75	71.71	.09
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	71.14 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.67	21.33	.21
WINDOW DEMO	WINDOWS	64.00 SQFT			595.00	

Source: 62 QUONSET HUT #3 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	24.69	412.25	6.05
COLUMN DEMO	W8 X 24 MEMBERS	6.05 TONS			595.00	
DOORS	DOORS	ABOVE GRADE	B	65.33	130.67	1.31
EXT DOOR DEMO	EXT DOORS (MAN & OH)	392.00 SQFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.06	2.12	.18
ELECTRICAL DEMO	2" DIAMETER & LESS	161.82 LNFT			595.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.45	2.91	.16
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	24.69 LNFT			595.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	8.00	16.00	.05
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			595.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	30.00	60.00	.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	3.00 EACH			.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	14.10	28.20	3.48
METAL WALL PANEL DEMO	EXT. METAL PANELS	6330.00 SQFT			595.00	
CONCRETE	CONCRETE	BELOW GRADE	E	56.00	72.80	4.20
CONCRETE SUMP DEMO	PIT SLAB	.59 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	1.48 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1630.33	2119.43	122.28
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	24.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	20.49 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	14.89 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1657.80	2155.14	124.34
CONCRETE SLAB DEMO	SLAB AT GRADE	61.40 CUYD			.00	
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	114.00	148.20	8.55
CONCRETE SLAB DEMO	DUST COLLECTOR FNDN.	4.22 CUYD			.00	
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	333.33	433.33	23.33
FIRE BRICK DEMO	FIRE BRICK ON SKIDS	1000.00 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	6.07	7.28	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	31.87	38.24	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	10.67	21.33	.21
WINDOW DEMO	WINDOWS	64.00 SQFT			595.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	371.20	6199.06	90.94
MISC. STEEL DEMO	MISC STEEL	5.00 TONS			592.50	
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS			592.50	
ROOF FRAMING DEMO	METAL DECKING	23.04 TONS			592.50	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	60.90 TONS			592.50	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	612.50	10228.75	150.06
STEEL CURBING DEMO	STEEL CURBING	150.06 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	75.00	150.00	1.50
EXT DOOR DEMO	EXT DOORS (MAN & OH)	450.00 SQFT			592.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	22.56	45.11	3.79
ELECTRICAL DEMO	2" DIAMETER & LESS	3446.36 LNFT			592.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	118.00	236.00	.74
ELECTRICAL DEMO	ELECTRICAL FIXTURES	59.00 EACH			592.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	310.00	620.00	7.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	31.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	3.00	10.50	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	10.00	35.00	.08
EQUIPMENT DEMO	HVAC EQUIPMENT	10.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	20.94	41.87	2.36
PIPING DEMO	2" DIAMETER & LESS	799.66 LNFT			592.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	115.04	230.08	8.24
PIPING DEMO	2-1/2" TO 4" DIAMETER	1098.53 LNFT			592.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	184.26	368.52	8.14
PIPING DEMO	OVER 4" DIAMETER	439.89 LNFT			592.50	
CONCRETE	CONCRETE	BELOW GRADE	E	567.00	737.10	42.53
CONCRETE CURBING DEMO	CONCRETE CURBING	21.00 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1914.36	2488.66	143.58
CONCRETE GRADE BEAM DEMO	GRADE BEAM	64.68 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	6.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	19504.51	25355.86	1462.84
CONCRETE SLAB DEMO	SLAB AT GRADE	692.14 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	30.25 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	9145.52	11889.18	251.50
MASONRY WALL DEMO	MASONRY WALLS	13718.28 SQFT			592.50	

000435

Source: 63 KC-2 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	50.00	65.00	3.50
FIRE BRICK DEMO	FIRE BRICK ON SKIDS	150.00 SQFT			.00	
TILE	FLOOR TILE	AT GRADE	G	4.58	5.50	.22
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	220.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	52.21	208.84	.12
PIPING DEMO	INSULATION	626.51 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	53.87	64.65	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	336.71 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	4518.50	5422.20	10.17
INSULATION DEMO	INSULATION (RIGID)	27111.00 SQFT			592.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	150.00	300.00	2.25
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00 CUFT			592.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	282.84	339.40	.43
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	336.71 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	2259.25	4518.50	81.33
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	27111.00 SQFT			592.50	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	197.43	3297.06	48.37
COLUMN DEMO	W10 X 21 MEMBERS	5.00 TONS			585.83	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	.37 TONS			585.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	22.50 TONS			585.83	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	6.00 TONS			585.83	
ROOF FRAMING DEMO	MISC STEEL (PLATES ETC)	3.00 TONS			585.83	
ROOF FRAMING DEMO	W12 X 26 MEMBERS	11.50 TONS			585.83	
DOORS	DOORS	ABOVE GRADE	B	302.67	605.33	6.05
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1816.00 SQFT			585.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	33.84	67.68	5.69
ELECTRICAL DEMO	2" DIAMETER & LESS	5170.00 LNFT			585.83	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	35.17	70.34	3.82
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	597.03 LNFT			585.83	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	16.35	32.70	1.36
ELECTRICAL DEMO	OVER 4" DIAMETER	99.93 LNFT			585.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	24.00	48.00	.15
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			585.83	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	5.02	10.04	1.44
ELECTRICAL WIRING DEMO	LIGHTING	920.00 LNFT			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	190.00	380.00	4.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	19.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	80.00	280.00	.19
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	80.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.06
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	376.00	1316.00	7.07
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	376.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	125.00	437.50	4.31
EQUIPMENT DEMO	PROCESS EQUIPMENT	125.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	11.79	23.57	1.33
PIPING DEMO	2" DIAMETER & LESS	450.17 LNFT			585.83	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	185.10	370.20	13.26
PIPING DEMO	2-1/2" TO 4" DIAMETER	1767.60 LNFT			585.83	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	20.94	41.89	.92
PIPING DEMO	OVER 4" DIAMETER	50.00 LNFT			585.83	

000437

Source: 64 THORIUM WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	2.68	5.37	.95
LEAD FLASHING DEMO	LEAD FLASHING	1904.76 LBS			585.83	
LOUVERS	LOUVERS	ABOVE GRADE	D	30.50	61.00	.61
LOUVER DEMO	EXT LOUVERS	183.00 SQFT			585.83	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	37.19	74.38	9.18
METAL WALL PANEL DEMO	EXT. METAL PANELS	16696.50 SQFT			585.83	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	35.64	71.28	8.80
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	16000.00 SQFT			585.83	
CONCRETE	CONCRETE	BELOW GRADE	E	194.00	252.20	14.55
CONCRETE CURBING DEMO	CONCRETE CURBING	7.19 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	3196.96	4156.05	239.77
CONCRETE GRADE BEAM DEMO	GRADE BEAM	118.41 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	10341.00	13443.30	775.58
CONCRETE SLAB DEMO	CONCRETE SLABS	245.31 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	137.69 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1200.00	1560.00	33.00
MASONRY WALL DEMO	MASONRY WALLS	1800.00 SQFT			585.83	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	12.50	25.00	.15
CEILING DEMO	CEILING DEMO	200.00 SQFT			585.83	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	12.15	14.58	.67
INT TRANSITE DEMO	INT TRANSITE PANELS	583.40 SQFT			585.83	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	45.18	180.72	.10
PIPING DEMO	INSULATION	542.17 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	28.83	34.60	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	180.21 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	4.28	8.56	.14
ELECTRICAL CONDUIT DEMO	1" A.D.T. CONDUIT	65.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	65.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" TELEPHONE CONDUIT	65.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	65.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#2 GROUND	525.00 LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	123.33	148.00	.28
INSULATION DEMO	INSULATION (BAT)	740.00 SQFT			585.83	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	456.00	912.00	6.84
MISC. MATERIAL DEMO	MISC. DEBRIS	456.00 CUFT			585.83	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	151.38	181.65	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	180.21 CUFT			.00	

Source: 64 THORIUM WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
WINDOWS	WINDOWS	ABOVE GRADE	I	758.10	1516.19	15.16
WINDOW DEMO	WINDOWS	4548.57 SQFT			585.83	

000439

Source: 65 (OLD) PLANT 5 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	269.28	4496.94	65.97
COLUMN DEMO	W10 X 21 MEMBERS	9.50 TONS			585.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	16.00 TONS			585.83	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	4.00 TONS			585.83	
ROOF FRAMING DEMO	MISC STEEL (PLATES ETC)	6.00 TONS			585.83	
ROOF FRAMING DEMO	MISC. ANGLES	3.00 TONS			585.83	
ROOF FRAMING DEMO	STEEL TRUSSES	19.50 TONS			585.83	
ROOF FRAMING DEMO	TRUSS BRACING ANGLES	2.97 TONS			585.83	
ROOF FRAMING DEMO	W8 X 10 MEMBERS	5.00 TONS			585.83	
DOORS	DOORS	ABOVE GRADE	B	198.67	397.33	3.97
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1192.00 SQFT			585.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	8.36	16.72	1.40
ELECTRICAL DEMO	2" DIAMETER & LESS	1277.27 LNFT			585.83	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.18	2.36	.13
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			585.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	24.00	48.00	.15
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			585.83	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	120.00	240.00	3.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	12.00 EACH			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	20.00	70.00	.08
EQUIPMENT DEMO	HVAC EQUIPMENT	20.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	3.00	10.50	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	3.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	34.03	68.05	3.83
PIPING DEMO	2" DIAMETER & LESS	1299.66 LNFT			585.83	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1.56	3.11	.11
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.93 LNFT			585.83	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	209.39	418.79	9.25
PIPING DEMO	OVER 4" DIAMETER	499.89 LNFT			585.83	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	1.76	3.52	.63
LEAD FLASHING DEMO	LEAD FLASHING	1250.00 LBS			585.83	
LOUVERS	LOUVERS	ABOVE GRADE	D	20.00	40.00	.40
LOUVER DEMO	EXT LOUVERS	120.00 SQFT			585.83	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	26.37	52.75	6.51
METAL WALL PANEL DEMO	EXT. METAL PANELS	11840.00 SQFT			585.83	

Source: 65 (OLD) PLANT 5 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	23.62	47.25	5.83
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	10605.00 SQFT			585.83	
CONCRETE	CONCRETE	BELOW GRADE	E	1074.58	1396.95	80.59
CONCRETE CURBING DEMO	CONCRETE CURBING	8.04 CUYD			.00	
CONCRETE CURBING DEMO	CONCRETE CURBING	31.76 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	7064.17	9183.42	529.81
CONCRETE SLAB DEMO	SLAB AT GRADE	261.64 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	36.14	144.58	.08
PIPING DEMO	INSULATION	433.73 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	17.45	20.94	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	109.08 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	200.00	400.00	3.00
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00 CUFT			585.83	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	91.62	109.95	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	109.08 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	497.50	995.00	9.95
WINDOW DEMO	WINDOWS	2985.00 SQFT			585.83	

000141

Source: 66 DRUM RECONDITIONING BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	50.83	848.84	12.45
COLUMN DEMO	W10 X 21 MEMBERS	.44 TONS			585.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	3.57 TONS			585.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.27 TONS			585.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	.30 TONS			585.00	
ROOF FRAMING DEMO	MISC STEEL	1.00 TONS			585.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	1.17 TONS			585.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	.70 TONS			585.00	
ROOF FRAMING DEMO	W8 X 10 MEMBERS	5.00 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	34.50	69.00	.69
EXT DOOR DEMO	EXT DOORS (MAN & OH)	207.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	23.22	46.45	3.90
ELECTRICAL DEMO	2" DIAMETER & LESS	3548.18 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	52.75	105.49	5.73
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	895.47 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	32.71	65.43	2.72
ELECTRICAL DEMO	OVER 4" DIAMETER	199.93 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	36.00	72.00	.23
ELECTRICAL DEMO	ELECTRICAL FIXTURES	18.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	437.40	1530.90	4.70
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	486.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	5.40	18.90	.14
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	14.40	50.40	2.03
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	16.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4545.00	15907.50	19.92
EQUIPMENT DEMO	PROCESS EQUIPMENT	5050.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	14.14	28.27	1.59
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	56.47	112.95	4.04
PIPING DEMO	2-1/2" TO 4" DIAMETER	599.20 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	150.76	301.51	6.66
PIPING DEMO	OVER 4" DIAMETER	399.89 LNFT			585.00	

Source: 66 DRUM RECONDITIONING BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	48.60	170.10	.52
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	486.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.60	2.10	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	6.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	1.60	5.60	.23
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	16.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	505.00	1767.50	2.21
EQUIPMENT DEMO	PROCESS EQUIPMENT	5050.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.57	3.14	.18
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	6.27	12.55	.45
PIPING DEMO	2-1/2" TO 4" DIAMETER	599.20 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	16.75	33.50	.74
PIPING DEMO	OVER 4" DIAMETER	399.89 LNFT			585.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	6.35	12.71	1.75
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1274.90 SQFT			585.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	9.36	18.71	2.11
METAL WALL PANEL DEMO	EXT. METAL PANELS	4200.00 SQFT			585.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	8.55	17.11	2.11
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	3840.00 SQFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	844.67	1098.07	63.35
CONCRETE GRADE BEAM DEMO	GRADE BEAM	17.28 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	2.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	6.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2835.00	3685.50	212.62
CONCRETE SLAB DEMO	CONCRETE SLABS	25.31 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	45.87 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	4.86 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	28.96 CUYD			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	11.38	22.75	.14
CEILING DEMO	CEILING DEMO	182.00 SQFT			585.00	
TILE	FLOOR TILE	AT GRADE	G	12.50	15.00	.60
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	600.00 SQFT			.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	9.44	11.32	.52
INT TRANSITE DEMO	INT TRANSITE PANELS	453.00 SQFT			585.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	10.62	42.50	.02

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
HVAC DEMO	INSULATION	127.49 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	37.15	148.59	.08
PIPING DEMO	INSULATION	445.78 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	78.91	94.70	.12
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	493.21 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	18.75	37.50	.50
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	300.00 SQFT			585.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	75.50	90.60	.17
INSULATION DEMO	INSULATION (BAT)	453.00 SQFT			585.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	75.00	150.00	1.13
MISC. MATERIAL DEMO	MISC. DEBRIS	75.00 CUFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	414.30	497.16	.63
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	493.21 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	35.00	70.00	.70
WINDOW DEMO	WINDOWS	210.00 SQFT			585.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	116.95	1953.08	28.65
COLUMN DEMO	W10 X 21 MEMBERS	1.76 TONS			585.50	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	3.62 TONS			585.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	7.54 TONS			585.50	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	3.20 TONS			585.50	
ROOF FRAMING DEMO	MISC STEEL	4.00 TONS			585.50	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	4.33 TONS			585.50	
ROOF FRAMING DEMO	W8 X 10 MEMBERS	4.20 TONS			585.50	
DOORS	DOORS	ABOVE GRADE	B	55.00	110.00	1.10
EXT DOOR DEMO	EXT DOORS (MAN & OH)	330.00 SQFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.99	3.99	.33
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	28.00	56.00	.18
ELECTRICAL DEMO	ELECTRICAL FIXTURES	14.00 EACH			585.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	50.00	100.00	1.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	5.00 EACH			.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	5.33	10.67	.11
LOUVER DEMO	EXT LOUVERS	32.00 SQFT			585.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	9.47	18.95	2.34
METAL WALL PANEL DEMO	EXT. METAL PANELS	4253.20 SQFT			585.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	8.91	17.82	2.20
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	4000.00 SQFT			585.50	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	560.00	728.00	42.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM	20.74 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	2000.00	2600.00	150.00
CONCRETE SLAB DEMO	SLAB AT GRADE	74.07 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	B	51.60	61.92	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			585.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	270.89	325.06	.41
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	40.00	80.00	.80

000445

Source: 67 PLANT 1 THORIUM WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
WINDOW DEMO	WINDOWS	240.00 SQFT			585.50	

Source: 68 PILOT PLANT WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	154.29	2576.57	37.80
COLUMN DEMO	W10 X 21 MEMBERS	1.76 TONS			577.50	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	3.94 TONS			577.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	12.44 TONS			577.50	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	4.00 TONS			577.50	
ROOF FRAMING DEMO	MISC STEEL	5.00 TONS			577.50	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	5.41 TONS			577.50	
ROOF FRAMING DEMO	W8 X 10 MEMBERS	5.25 TONS			577.50	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	56.28	939.84	13.79
STEEL CURBING DEMO	STEEL CURBING	13.79 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	27.17	54.33	.54
EXT DOOR DEMO	EXT DOORS (MAN & OH)	163.00 SQFT			577.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.32	6.64	.56
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			577.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			577.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	250.00	500.00	1.56
ELECTRICAL DEMO	ELECTRICAL FIXTURES	125.00 EACH			577.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	6.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	3.00	10.50	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	3.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	5.00	17.50	.08
EQUIPMENT DEMO	HVAC EQUIPMENT	5.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.23
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2.00 CUFT			.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.21	.42	.08
LEAD FLASHING DEMO	LEAD FLASHING	150.00 LBS			577.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	5.33	10.67	.11
LOUVER DEMO	EXT LOUVERS	32.00 SQFT			577.50	
CONCRETE	CONCRETE	BELOW GRADE	E	32.75	42.58	2.46
CONCRETE CURBING DEMO	CONCRETE CURBING	1.21 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	150.31	195.40	11.27
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.01 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.56 CUYD			.00	

000497

Source: 68 PILOT PLANT WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	216.00	280.80	16.20
CONCRETE SLAB DEMO	CONCRETE SLABS	8.00 CUYD			577.50	
CONCRETE	CONCRETE SLABS	AT GRADE	E	3666.75	4766.78	275.01
CONCRETE SLAB DEMO	CONCRETE PAD	3.56 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	125.63 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (RADIOGRAPHIC FACILITY)	6.10 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (RADIOGRAPHIC FACILITY)	.52 CUYD			.00	
CONCRETE	CONCRETE WALLS	ABOVE GRADE	E	594.00	772.20	44.55
CONCRETE COLUMN DEMO	CONCRETE WALLS	22.00 CUYD			577.50	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	6.42	12.84	.08
CEILING DEMO	CEILING DEMO	102.71 SQFT			577.50	
TILE	FLOOR TILE	AT GRADE	G	2.08	2.50	.10
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	100.00 SQFT			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	168.82	202.58	9.49
EXT TRANSITE DEMO	EXT TRANSITE PANELS	4630.50 SQFT			577.50	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	190.53	228.64	10.71
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	5226.00 SQFT			577.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	51.60	61.92	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48 CUFT			.00	
GYPSUM BOARD	DRYWALL	ABOVE GRADE	I	12.50	25.00	.33
GWB PARTITION DEMO	INT. DRYWALL PARTITIONS	200.00 SQFT			577.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	156.00	312.00	2.34
MISC. MATERIAL DEMO	MISC. DEBRIS	156.00 CUFT			577.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	270.89	325.06	.41
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48 CUFT			.00	

Source: 69 DECONTAMINATION BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	155.63	2599.03	38.13
MISC. STEEL DEMO	MISC STEEL (PLATES ETC)	4.00 TONS			590.00	
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS			590.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	4.37 TONS			590.00	
ROOF FRAMING DEMO	METAL DECKING	2.76 TONS			590.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	2.75 TONS			590.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	4.80 TONS			590.00	
ROOF FRAMING DEMO	W10 X 25 MEMBERS	3.43 TONS			590.00	
ROOF FRAMING DEMO	W14 X 43 MEMBERS	3.44 TONS			590.00	
ROOF FRAMING DEMO	W21 X 82 MEMBERS	4.92 TONS			590.00	
STEEL COLUMN DEMO.	W10 X 29 MEMBERS	1.08 TONS			590.00	
STEEL COLUMN DEMO.	W10 X 49 MEMBERS	4.57 TONS			590.00	
DOORS	DOORS	ABOVE GRADE	B	28.00	56.00	.56
EXT DOOR DEMO	EXT DOORS (MAN & OH)	168.00 SQFT			590.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	11.94	23.88	2.01
ELECTRICAL DEMO	2" DIAMETER & LESS	1824.55 LNFT			590.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	2.93	5.85	.32
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	49.69 LNFT			590.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	50.00	100.00	.31
ELECTRICAL DEMO	ELECTRICAL FIXTURES	25.00 EACH			590.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	4.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1.80	6.20	.06
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3.60	12.60	.16
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	7.20	25.20	.76
EQUIPMENT DEMO	PROCESS EQUIPMENT	8.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	14.14	28.27	1.59
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			590.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	14.12	28.25	1.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	149.87 LNFT			590.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	207.28	414.57	9.15
PIPING DEMO	OVER 4" DIAMETER	549.84 LNFT			590.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	

000469

Source: 69 DECONTAMINATION BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.40	1.40	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	4.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.80	2.80	.08
EQUIPMENT DEMO	PROCESS EQUIPMENT	8.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	1.57	3.14	.18
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			590.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	1.57	3.14	.11
PIPING DEMO	2-1/2" TO 4" DIAMETER	149.87 LNFT			590.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	23.03	46.06	1.02
PIPING DEMO	OVER 4" DIAMETER	549.84 LNFT			590.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	16.67	33.33	.33
LOUVER DEMO	EXT LOUVERS	100.00 SQFT			590.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	249.21	323.97	18.69
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	9.23 CUYD			590.00	
CONCRETE	CONCRETE	BELOW GRADE	E	561.54	730.01	42.12
CONCRETE SUMP DEMO	SUMP SLAB	1.58 CUYD			.00	
CONCRETE SUMP DEMO	SUMP TANK	3.70 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	3.16 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	2.69 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	9.67 CUYD			.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	1045.52	1359.18	78.41
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	38.72 CUYD			590.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2726.67	3544.67	204.50
CONCRETE EQUIPMENT FNDN DEMO	ACID DIP TANK FNDN. #3 & #4	46.30 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	ACID DIP TANK FNDNS.	9.26 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EXAUST BASE FNDN.	1.48 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FAN BASE FNDNS.	.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FILTER PRESS FNDN.	.28 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MOTOR BASE FNDN.	.44 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	RINSE TANK FNDN.	.56 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	28.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.84 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.17 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	1833.33	2383.32	137.50
CONCRETE SLAB DEMO	SLAB AT GRADE	67.90 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	4330.39	5629.50	119.09
MASONRY WALL DEMO	MASONRY WALLS	6495.58 SQFT			590.00	
CONCRETE	ACID BRICK	AT GRADE	F	958.00	1245.40	67.06
ACID BRICK DEMO	ACID BRICK IN DECONTAMINATION	2874.00 SQFT			.00	

Source: 69 DECONTAMINATION BUILDING Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	34.14	136.55	.08
PIPING DEMO	INSULATION	409.64 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	81.95	98.34	.12
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	512.18 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	541.63	649.95	1.22
INSULATION DEMO	INSULATION (RIGID)	3249.77 SQFT			590.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	150.00	300.00	2.25
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00 CUFT			590.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	430.23	516.28	.65
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	512.18 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	270.83	541.67	9.75
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	3250.00 SQFT			590.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	120.50	241.00	2.41
WINDOW DEMO	WINDOWS	723.00 SQFT			590.00	

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	5453.20	91068.37	1336.03
FLOOR FRAMING DEMO	LIGHT FLOOR PLATE	.25 TONS				580.08
FLOOR FRAMING DEMO	MEDIUM FLOOR PLATE	4.13 TONS				580.08
FLOOR FRAMING DEMO	STEEL GRATING	17.02 TONS				580.08
MISC. STEEL DEMO	METAL DECKING	2.89 TONS				580.08
EXT WALL FRAMING	C-CHANNEL FRAMING	17.39 TONS				580.08
EXT WALL FRAMING	C-CHANNEL FRAMING	6.49 TONS				580.08
EXT WALL FRAMING	C-CHANNEL FRAMING	6.49 TONS				580.08
EXT WALL FRAMING	C-CHANNEL FRAMING	60.25 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	4.71 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	2.27 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	3.41 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	22.79 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	3.82 TONS				580.08
EXT WALL FRAMING	MISC ANGLE FRAMING	5.24 TONS				580.08
EXT WALL FRAMING	THREADED RODS	1.86 TONS				580.08
EXT WALL FRAMING	THREADED RODS	.29 TONS				580.08
EXT WALL FRAMING	THREADED RODS	.29 TONS				580.08
EXT WALL FRAMING	THREADED RODS	.72 TONS				580.08
EXT WALL FRAMING	W12 X 27 MEMBERS	.54 TONS				580.08
EXT WALL FRAMING	W14 X 34 MEMBERS	.34 TONS				580.08
EXT WALL FRAMING	W14 X 43 MEMBERS	.42 TONS				580.08
EXT WALL FRAMING	W16 X 26 MEMBERS	.52 TONS				580.08
EXT WALL FRAMING	W16 X 40 MEMBERS	.80 TONS				580.08
EXT WALL FRAMING	W21 X 96 MEMBERS	1.01 TONS				580.08
EXT WALL FRAMING	W8 X 17 MEMBERS	10.66 TONS				580.08
EXT WALL FRAMING	W8 X 24 MEMBERS	.48 TONS				580.08
EXT WALL FRAMING	W8 X 24 MEMBERS	11.04 TONS				580.08
EXT WALL FRAMING	W8 X 24 MEMBERS	11.04 TONS				580.08
EXT WALL FRAMING	W8 X 24 MEMBERS	11.52 TONS				580.08
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	.83 TONS				580.08
FLOOR FRAMING DEMO	STEEL GRATING	6.23 TONS				580.08
FLOOR FRAMING DEMO	STEEL JOISTS DEMO	1.20 TONS				580.08
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	47.66 TONS				580.08
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	5.11 TONS				580.08
FLOOR FRAMING DEMO	W30 X 108 MEMBERS	3.18 TONS				580.08
FLOOR FRAMING DEMO	W30 X 190 MEMBERS	46.55 TONS				580.08
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.35 TONS				580.08
MISC. STEEL DEMO	C-CHANNEL FRAMING	16.87 TONS				580.08
MISC. STEEL DEMO	C-CHANNEL FRAMING	6.10 TONS				580.08
MISC. STEEL DEMO	MISC STEEL	.14 TONS				580.08
MISC. STEEL DEMO	MISC STEEL	1.80 TONS				580.08
MISC. STEEL DEMO	MISC STEEL (60# CRANE RAIL)	3.60 TONS				580.08
MISC. STEEL DEMO	MISC STEEL (60# CRANE RAIL)	14.00 TONS				580.08
MISC. STEEL DEMO	MISC. ANGLES	.43 TONS				580.08
MISC. STEEL DEMO	W21 X 55 MEMBERS	6.48 TONS				580.08
MISC. STEEL DEMO	W21 X 62 MEMBERS	24.80 TONS				580.08
MISC. STEEL DEMO	W24 X 76 MEMBERS	27.36 TONS				580.08
ROOF FRAMING DEMO	W12 X 40 MEMBERS	7.80 TONS				580.08
STAIR FRAMING DEMO	STAIR FRAMING	.63 TONS				580.08
STAIR FRAMING DEMO	W18 X 40 MEMBERS	3.60 TONS				580.08
STEEL COLUMN DEMO	W10 X 49 MEMBERS	24.15 TONS				580.08

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL COLUMN DEMO	W21 X 112 MEMBERS	21.03 TONS			580.08	
STEEL COLUMN DEMO	W21 X 112 MEMBERS	51.12 TONS			580.08	
STEEL COLUMN DEMO	W21 X 127 MEMBERS	4.64 TONS			580.08	
STEEL COLUMN DEMO	W21 X 127 MEMBERS	4.64 TONS			580.08	
STEEL COLUMN DEMO	W21 X 96 MEMBERS	83.88 TONS			580.08	
STEEL COLUMN DEMO	W21 X 96 MEMBERS	15.77 TONS			580.08	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	4.48 TONS			580.08	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	6.24 TONS			580.08	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	4.48 TONS			580.08	
EXT WALL FRAMING	C-CHANNEL FRAMING	13.46 TONS			600.00	
EXT WALL FRAMING	MISC ANGLE FRAMING	4.41 TONS			600.00	
EXT WALL FRAMING	THREADED RODS	.53 TONS			600.00	
EXT WALL FRAMING	W8 X 17 MEMBERS	.67 TONS			600.00	
EXT WALL FRAMING	W8 X 24 MEMBERS	5.46 TONS			600.00	
EXT WALL FRAMING	W8 X 31 MEMBERS	1.51 TONS			600.00	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.30 TONS			600.00	
FLOOR FRAMING DEMO	W21 X 62 MEMBERS	5.58 TONS			600.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.02 TONS			600.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.88 TONS			600.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.19 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.51 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	1.20 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (PLATFORM)	1.71 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (PLATFORMS)	.81 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (WALKWAYS)	9.30 TONS			600.00	
MISC. STEEL DEMO	W10 X 21 MEMBERS	.64 TONS			600.00	
PLATFORM FRAMING	C-CHANNEL FRAMING	.46 TONS			600.00	
PLATFORM FRAMING	C-CHANNEL FRAMING	1.73 TONS			600.00	
PLATFORM FRAMING	STEEL GRATING	3.49 TONS			600.00	
PLATFORM FRAMING	TRUSS ANGLE FRAMING	.14 TONS			600.00	
PLATFORM FRAMING	W10 X 25 MEMBERS	.94 TONS			600.00	
PLATFORM FRAMING	W8 X 13 MEMBERS	1.09 TONS			600.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	98.09 TONS			600.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	5.09 TONS			600.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	7.24 TONS			600.00	
ROOF FRAMING DEMO	MED. FLOOR PLATE	8.88 TONS			600.00	
ROOF FRAMING DEMO	MISC ANGLE FRAMING	1.43 TONS			600.00	
ROOF FRAMING DEMO	MISC STEEL (HAND RAIL)	2.70 TONS			600.00	
ROOF FRAMING DEMO	MISC STEEL (PLATFORMS)	3.56 TONS			600.00	
ROOF FRAMING DEMO	THREADED RODS	2.05 TONS			600.00	
ROOF FRAMING DEMO	THREADED RODS	.11 TONS			600.00	
ROOF FRAMING DEMO	TRUSS ANGLE FRAMING	252.52 TONS			600.00	
ROOF FRAMING DEMO	TRUSS ANGLE FRAMING	42.30 TONS			600.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	2.70 TONS			600.00	
ROOF FRAMING DEMO	W16 X 36 MEMBERS	.43 TONS			600.00	
ROOF FRAMING DEMO	W16 X 45 MEMBERS	2.03 TONS			600.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	1.02 TONS			600.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	2.88 TONS			600.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.19 TONS			600.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.50 TONS			600.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	88.07 TONS			615.00	
ROOF FRAMING DEMO	THREADED RODS	1.68 TONS			615.00	
ROOF FRAMING DEMO	TRUSS ANGLE FRAMING	18.09 TONS			615.00	

000453

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ROOF FRAMING DEMO	TRUSS ANGLE FRAMING	16.96 TONS			615.00	
ROOF FRAMING DEMO	TRUSS ANGLE FRAMING	63.73 TONS			615.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	1999.05	33384.10	489.77
METAL DECKING DEMO	METAL DECKING	308.70 TONS			.00	
METAL DECKING SUPPORT DEMO	W16 X 45	28.35 TONS			.00	
METAL DECKING SUPPORT DEMO	W16 X 45	22.05 TONS			.00	
SHEET METAL PILING DEMO	SHEET METAL PILING FOR PIT	130.67 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	816.67	1633.33	16.33
EXT DOOR DEMO	EXT DOORS (MAN & OH)	4900.00 SQFT			580.08	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	725.31	1450.62	121.90
ELECTRICAL DEMO	2" DIAMETER & LESS	870.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	218.18 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2897.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	972.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	633.64 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	125.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	336.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1142.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	486.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	4490.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1667.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	232.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	76.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	867.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2990.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	800.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	80.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	45.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	131.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	40.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	30.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	50.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1186.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	891.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	146.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	187.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	313.64 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	126.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	754.55 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	50.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	340.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2322.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	101.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	435.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	806.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36 LNFT			580.08	

Material	Material Description	Grade Level	FS	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL DEMO	2" DIAMETER & LESS	942.73	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	96.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	248.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1003.64	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	390.00	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	263.64	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	172.73	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	998.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	7100.00	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	7404.55	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2468.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1150.91	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	907.27	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	612.73	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	673.64	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	76.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	734.55	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	151.82	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	45.45	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	435.45	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	3502.73	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	425.45	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	329.09	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	897.27	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	340.00	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	116.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	658.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	212.73	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	719.09	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	4120.00	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1211.82	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1186.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	447.27	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	91.82	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	157.27	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	228.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	329.09	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	349.09	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	820.91	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1318.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	867.27	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	988.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2534.55	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	80.91	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	3076.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	425.45	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	806.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	476.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	3076.36	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	313.64	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	608.18	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	80.91	LNFT		580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2665.45	LNFT		580.08	

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL DEMO	2" DIAMETER & LESS	50.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	167.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	91.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	222.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	86.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1358.18 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	192.73 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	20.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	228.18 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	253.64 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1550.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1865.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	80.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	970.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	765.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2970.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1358.18 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1368.18 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	177.27 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	35.45 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	170.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	1170.91 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	50.00 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	6127.27 LNFT			580.08	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	553.17	1106.34	60.10
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	174.22 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	402.81 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	36.88 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	89.53 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	244.84 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1084.53 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	49.69 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	223.91 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	54.69 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	497.66 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	89.53 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	64.53 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	686.56 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	24.69 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	9.84 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	54.69 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1293.59 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	318.44 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	273.59 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	39.84 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	273.59 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	9.84 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			580.08	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	159.06	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	293.75	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	14.84	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	49.69	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	268.75	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	69.53	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	164.22	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	238.75	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	89.53	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1532.34	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	34.84	LNFT		580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	378.13	LNFT		580.08	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	67.33	134.65	5.60
ELECTRICAL DEMO	CABLE TRAYS	10.66	LNFT		580.08	
ELECTRICAL DEMO	CABLE TRAYS	4.63	LNFT		580.08	
ELECTRICAL DEMO	CABLE TRAYS	5.22	LNFT		580.08	
ELECTRICAL DEMO	CABLE TRAYS	12.06	LNFT		580.08	
ELECTRICAL DEMO	CABLE TRAYS	19.12	LNFT		580.08	
ELECTRICAL DEMO	OVER 4" DIAMETER	79.93	LNFT		580.08	
ELECTRICAL DEMO	OVER 4" DIAMETER	139.93	LNFT		580.08	
ELECTRICAL DEMO	OVER 4" DIAMETER	114.93	LNFT		580.08	
ELECTRICAL DEMO	OVER 4" DIAMETER	25.00	LNFT		580.08	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1582.00	3164.00	9.89
ELECTRICAL DEMO	ELECTRICAL FIXTURES	791.00	EACH		580.08	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	240.00	480.00	6.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	12.00	EACH		.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	27.57	55.14	7.91
ELECTRICAL GROUND DEMO	#2 GROUND	5050.00	LNFT		.00	
ELECTRICAL GROUND DEMO	#6 GROUND	5.00	LNFT		.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	1920.00	3840.00	48.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	192.00	EACH		.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	15102.00	52857.00	135.81
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	16780.00	CUFT		.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	15415.20	53953.20	47.43
EQUIPMENT DEMO	HVAC EQUIPMENT	17128.00	CUFT		.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	22232.70	77814.45	73.17
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	24703.00	CUFT		.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	125717.40	440010.90	1845.45
EQUIPMENT DEMO	PROCESS EQUIPMENT	139686.00	CUFT		.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	552.79	1105.57	62.29
PIPING DEMO	2" DIAMETER & LESS	23461.02	LNFT		580.08	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	57.20	114.41	6.45

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Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
LIVE STEAM DEMO	LS-10-2"W	10.00 LNFT			.00	
LIVE STEAM DEMO	LS-6-2"W	25.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-2"L1	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-2"L1	185.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-.5"W	25.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-14-.5"W	20.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-15-.5"W	75.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-36-2"W	20.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4-1"W	10.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-1.5"W	10.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-2"L1	70.00 LNFT			.00	
PIPING DEMO	AN-3-1.5"T	35.00 LNFT			.00	
PIPING DEMO	RC-3-2"W	120.00 LNFT			.00	
PIPING DEMO	RC-4-2"W	95.00 LNFT			.00	
PROCESS WATER DEMO	CO-20-2"A	100.00 LNFT			.00	
PROCESS WATER DEMO	CO-8-2"A	100.00 LNFT			.00	
PROCESS WATER DEMO	LO-1-1.5"A	175.00 LNFT			.00	
PROCESS WATER DEMO	LO-55-2"W	15.00 LNFT			.00	
PROCESS WATER DEMO	LO-X-1.5"V	20.00 LNFT			.00	
PROCESS WATER DEMO	PA-25-1"W	50.00 LNFT			.00	
PROCESS WATER DEMO	PA-33-.75"W	20.00 LNFT			.00	
PROCESS WATER DEMO	TW-11-2"W	180.00 LNFT			.00	
PROCESS WATER DEMO	TW-11-2"W	125.00 LNFT			.00	
PROCESS WATER DEMO	TW-12-2"W	35.00 LNFT			.00	
PROCESS WATER DEMO	TW-13-2"W	25.00 LNFT			.00	
PROCESS WATER DEMO	TW-19-2"W	100.00 LNFT			.00	
PROCESS WATER DEMO	TW-7-1.5"W	300.00 LNFT			.00	
SANITARY SEWER DEMO	SN-5-1"	25.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-11-1"W	5.00 LNFT			.00	
STEAM CONDENSATE DEMO	CR-9-2"T	150.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	896.86	1793.72	64.23
PIPING DEMO	2-1/2" TO 4" DIAMETER	9516.00 LNFT			580.08	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	154.46	308.92	11.06
FUEL GAS DEMO	FG-3-4"V	125.00 LNFT			.00	
FUEL GAS DEMO	FG-3-4"V	150.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-4"L1	120.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2-3"L1	20.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	260.00 LNFT			.00	
PROCESS WATER DEMO	LO-2-3"A	175.00 LNFT			.00	
PROCESS WATER DEMO	LO-XX-3"A	80.00 LNFT			.00	
PROCESS WATER DEMO	TW-2-3"	70.00 LNFT			.00	
PROCESS WATER DEMO	TW-22-3"W	150.00 LNFT			.00	
PROCESS WATER DEMO	TW-3"	200.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	115.00 LNFT			.00	
VENT LINE DEMO	VE-13-4"	10.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	1737.21	3474.43	76.72
PIPING DEMO	OVER 4" DIAMETER	4608.11 LNFT			580.08	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	154.99	309.97	6.85
FUEL GAS DEMO	FG-1-6"V	125.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
PROCESS WATER DEMO	CO-19-10"A	120.00 LNFT			.00	
PROCESS WATER DEMO	CO-6-6"A	40.00 LNFT			.00	
PROCESS WATER DEMO	CO-7-6"A	85.00 LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	1678.00	5873.00	15.09
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	16780.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1712.80	5994.80	5.27
EQUIPMENT DEMO	HVAC EQUIPMENT	17128.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	2470.30	8646.05	8.13
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	24703.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	13968.60	48890.10	205.05
EQUIPMENT DEMO	PROCESS EQUIPMENT	139686.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	61.42	122.84	6.92
PIPING DEMO	2" DIAMETER & LESS	23461.02 LNFT			580.08	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	50.79	101.58	5.72
COOLING WATER RETURN DEMO	WR-14-2"W	65.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-34-2"W	490.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-14-2"W	60.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-28-2"W	40.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-10-2"W	10.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-31-1.5"W	5.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-7-2"W	150.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-7-2"W	370.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-8-2"W	190.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-8-2"W	375.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-9-2"W	185.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	99.65	199.30	7.14
PIPING DEMO	2-1/2" TO 4" DIAMETER	9516.00 LNFT			580.08	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	208.92	417.83	14.96
COOLING WATER RETURN DEMO	WR-1-3"W	140.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-1-3"W	140.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-1-3"W	35.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-1-3"W	380.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-2-3"W	250.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-3-3"W	375.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-35-3"W	5.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-38-4"W	55.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-4-3"W	200.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-6-3"W	380.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-6-3"W	35.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	193.02	386.05	8.52
PIPING DEMO	OVER 4" DIAMETER	4608.11 LNFT			580.08	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	106.81	213.63	4.72
COOLING WATER RETURN DEMO	RC-17-6"W	95.00 LNFT			.00	

000459

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
COOLING WATER RETURN DEMO	RC-18-12"W	50.00 LNFT			.00	
COOLING WATER RETURN DEMO	RC-19-6"W	80.00 LNFT			.00	
COOLING WATER RETURN DEMO	RC-30-6"W	10.00 LNFT			.00	
COOLING WATER RETURN DEMO	RC-31-6"W	10.00 LNFT			.00	
COOLING WATER RETURN DEMO	RC-32-6"W	5.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-33-8"W	5.00 LNFT			.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	301.75	603.51	83.26
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	16821.76 SQFT			600.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	43730.75 SQFT			600.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	216.67	433.33	4.33
LOUVER DEMO	EXT LOUVERS	1300.00 SQFT			580.08	
CONCRETE	CONCRETE	ABOVE GRADE	B	118.80	154.44	8.91
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	4.40 CUYD			580.08	
CONCRETE	CONCRETE	BELOW GRADE	B	47692.75	62000.58	3576.96
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	8.89 CUYD			.00	
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	24.44 CUYD			.00	
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	45.19 CUYD			.00	
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	13.04 CUYD			.00	
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	20.00 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP BASE	3.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN. INSIDE PIT	5.33 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FNDN. INSIDE PIT	1.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MILL & FLYING MILL ARMATURE FNDN	323.56 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PRECIPTRON FNDN	7.41 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	SHEAR & CONTIN MILL INCLUDED FOOTINGS	885.93 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TRANSFERMATIC FNDN	97.78 CUYD			.00	
CONCRETE SUMP DEMO	BASEMENT SUMP	.67 CUYD			.00	
CONCRETE SUMP DEMO	CROP PIT	156.00 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT	5.25 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT	8.00 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	1.43 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PITS SLAB	.65 CUYD			.00	
CONCRETE TRENCH DEMO	FIRST FLOOR TRENCH WALLS	18.67 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH	25.33 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH	4.44 CUYD			.00	
CONCRETE TRENCH DEMO	FNDN TRENCH WALLS	50.81 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH #1 & #2	23.70 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH #3	25.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH SLAB	9.33 CUYD			.00	
CONCRETE	CONCRETE BEAMS	BELOW GRADE	B	3780.00	4914.00	283.50
CONCRETE BEAM DEMO	ENCASED WITH STEEL BEAMS	140.00 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	99570.35	129441.45	7467.78
CONCRETE EQUIPMENT FNDN DEMO	#1 BAR MILL EXCIT MG	5.33 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	ADJACENT MACH FNDN #1	4.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	ADJACENT MACH FNDN #2	1.33 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	ADJACENT MOTOR FNDN	4.74 CUYD			.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE EQUIPMENT FNDN DEMO	BAR MILL EXCIT FNDN	7.70	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	BASE SLAB	8.52	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	BLOOMING FOUNDATION	320.00	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	COLLECTION TANKS BASE & DECK	.13	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	CRADLE RUNIN TABLE	44.44	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUALIZER FURNACE FNDN.	462.22	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT FNDN.	3.11	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PAD	19.44	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PAD: (213)	10.11	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	FLYING SHEAR MG SET	7.70	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	INTEGRAL FNDN APPENDAGE	4.00	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	INTEGRAL PILASTER	5.33	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MACHINE BASE	7.78	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MAIN MG. SET FNDN. @ COLUMN 13	59.26	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MASS FNDN.	959.26	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MILL RUNOUT TABLE FNDN	59.26	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC FNDN	1.26	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC FNDN (TYPE 1)	2.96	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC FNDN (TYPE 2)	10.11	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC FNDN.	.52	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	PIT & WALLS MASS FNDN.	24.89	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	ROLL LATHE FNDN	80.59	CUYD		.00	
CONCRETE FOOTING DEMO	2FT FOOTINGS	1.04	CUYD		.00	
CONCRETE FOOTING DEMO	3FT FOOTINGS	6.67	CUYD		.00	
CONCRETE FOOTING DEMO	4FT FOOTINGS (INCL 3'6")	4.15	CUYD		.00	
CONCRETE FOOTING DEMO	5FT FOOTINGS	3.70	CUYD		.00	
CONCRETE FOOTING DEMO	6 FT FOOTINGS (INCL 5'6")	28.00	CUYD		.00	
CONCRETE FOOTING DEMO	EXTERIOR COLUMN FOOTINGS	4.17	CUYD		.00	
CONCRETE FOOTING DEMO	EXTERIOR COLUMN FOOTINGS	12.52	CUYD		.00	
CONCRETE FOOTING DEMO	EXTERIOR COLUMN FOOTINGS	9.39	CUYD		.00	
CONCRETE FOOTING DEMO	EXTERIOR COLUMN FOOTINGS	4.00	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING A	37.56	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING B	42.67	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING C	89.63	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING D	150.00	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING E	1.50	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING L4(30)	.37	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTINGS	9.48	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTINGS	4.50	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTINGS	5.33	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTINGS @ G-14	.19	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	2.72	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	1.50	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	2.00	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	3.00	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	1.36	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	6.48	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	.67	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (1)	10.45	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (2)	4.48	CUYD		.00	
CONCRETE FOOTING DEMO	MILL APPROACH FNDN. FOOTING	38.22	CUYD		.00	
CONCRETE FOOTING DEMO	PEDESTALS	3.89	CUYD		.00	
CONCRETE FOOTING DEMO	PEDESTALS	.30	CUYD		.00	

000361

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE FOOTING DEMO	SHEAR TABLE FOOTINGS	29.56 CUYD			.00	
CONCRETE FOOTING DEMO	STEP FOOTING	80.00 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	33.33 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	355.56 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	1.97 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	3.81 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	5.33 CUYD			.00	
CONCRETE FOOTING DEMO	STRIP FOOTINGS	24.67 CUYD			.00	
CONCRETE FOOTING DEMO	TRANSVERSE FOOTING	58.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	EXT. & INT. GROUND WALLS	26.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	2.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	18.67 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.89 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	10.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.30 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.15 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.67 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.22 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8.37 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (LOW WALLS)	29.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (LOW WALLS)	48.14 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM (LOW WALLS)	22.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM HIGH WALL COLUMNS	14.44 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	19.67 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	9.84 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	9.59 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	4.80 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	28.04 CUYD			.00	
CONCRETE GRADE BEAM DEMO	TRENCH FNDN.	4.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	ADJACENT PEDESTALS	7.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	ADJACENT PEDESTALS	3.70 CUYD			.00	
CONCRETE PEDESTAL DEMO	ADJACENT PEDESTALS	1.78 CUYD			.00	
CONCRETE PEDESTAL DEMO	B1 MILL EXCIT PEDESTAL	4.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	BLOOMING MILL PEDESTAL	1.48 CUYD			.00	
CONCRETE PEDESTAL DEMO	EQUIP PEDESTALS	.62 CUYD			.00	
CONCRETE PEDESTAL DEMO	EXTERIOR COLUMN PEDESTALS	.75 CUYD			.00	
CONCRETE PEDESTAL DEMO	EXTERIOR COLUMN PEDESTALS	2.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	EXTERIOR COLUMN PEDESTALS	.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTAL WALLS	1.04 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS IN SLAB	2.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRATED WALL PEDESTALS	.15 CUYD			.00	
CONCRETE PEDESTAL DEMO	MISC PEDESTAL	9.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	MISC PEDESTAL	.11 CUYD			.00	
CONCRETE PEDESTAL DEMO	MOTOR BASE PEDESTALS	5.93 CUYD			.00	
CONCRETE PEDESTAL DEMO	OTHER PEDESTALS	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL FNDN #1	.52 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL FNDN #2	.30 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.07 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.19 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.46 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.44 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS	2.07 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	10.00 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	1.11 CUYD		.00		
CONCRETE PEDESTAL DEMO	POWER CENTER PEDESTALS	.59 CUYD		.00		
CONCRETE PEDESTAL DEMO	POWER CENTER PEDESTALS	3.33 CUYD		.00		
CONCRETE PEDESTAL DEMO	TANK FNDN. PEDESTALS	7.11 CUYD		.00		
CONCRETE PEDESTAL DEMO	TYPE B PEDESTAL	6.00 CUYD		.00		
CONCRETE PEDESTAL DEMO	TYPE C PEDESTAL	25.67 CUYD		.00		
CONCRETE STAIRWAY DEMO	CONCRETE STAIRS	80.25 CUYD		.00		
CONCRETE STAIRWAY DEMO	CONCRETE STAIRS	8.89 CUYD		.00		
CONCRETE STAIRWAY DEMO	STAIRWAYS	3.11 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	86832.00	112881.60	6512.40
CONCRETE SLAB DEMO	CONCRETE SLABS	944.36 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	35.85 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	186.13 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	166.29 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	42.72 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	1698.01 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	142.65 CUYD		.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	35414.93	46039.40	2656.12
CONCRETE SLAB DEMO	BASEMENT SLAB BELOW GRADE	888.89 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM FLOOR SLAB	25.33 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB	.14 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB	30.00 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB INCLUDED FOOTINGS	127.78 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB WITH STAIRWAY	6.92 CUYD		.00		
CONCRETE SLAB DEMO	DECK & BOTTOM FL	24.59 CUYD		.00		
CONCRETE SLAB DEMO	FNDN TRENCH SLAB	27.97 CUYD		.00		
CONCRETE SLAB DEMO	LOADING RAMP	4.36 CUYD		.00		
CONCRETE SLAB DEMO	SLAB BELOW GRADE	82.96 CUYD		.00		
CONCRETE SLAB DEMO	SLAB BELOW GRADE	74.07 CUYD		.00		
CONCRETE SLAB DEMO	SLAB BELOW GRADE	14.31 CUYD		.00		
CONCRETE SLAB DEMO	SLAB INCLUDED FOOTINGS	2.27 CUYD		.00		
CONCRETE SLAB DEMO	WEIGHT SCALE BOTTOM SLAB	2.07 CUYD		.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	17859.46	23217.30	1339.46
CONCRETE WALL DEMO	BASEMENT WALL #1	379.26 CUYD		.00		
CONCRETE WALL DEMO	BASEMENT WALL #2	35.56 CUYD		.00		
CONCRETE WALL DEMO	BRUSHING PIT, WALLS	3.63 CUYD		.00		
CONCRETE WALL DEMO	COLLECTION TANK WALLS	3.47 CUYD		.00		
CONCRETE WALL DEMO	CYCLONE SUMP PIT WALLS	20.74 CUYD		.00		
CONCRETE WALL DEMO	DEGREASER PIT WALLS	23.98 CUYD		.00		
CONCRETE WALL DEMO	DEGREASER PIT WALLS	14.39 CUYD		.00		
CONCRETE WALL DEMO	DUCT W/STACK PIT WALLS & DECK & FOOTINGS	47.41 CUYD		.00		
CONCRETE WALL DEMO	ISOLATION WALLS OF COOLING BED & PITS	22.67 CUYD		.00		
CONCRETE WALL DEMO	ISOLATION WALLS OF COOLING BED & PITS	24.67 CUYD		.00		
CONCRETE WALL DEMO	MOTOR BASE PIT WALLS	16.67 CUYD		.00		
CONCRETE WALL DEMO	MOTOR BASE PIT WALLS	10.00 CUYD		.00		

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE WALL DEMO	SCALE PIT WALLS	2.01 CUYD		.00		
CONCRETE WALL DEMO	SCALE PIT WALLS	.71 CUYD		.00		
CONCRETE WALL DEMO	SLUDGE FURNACE WALLS	4.43 CUYD		.00		
CONCRETE WALL DEMO	SLUDGE FURNACE WALLS	1.48 CUYD		.00		
CONCRETE WALL DEMO	STAIR WALLS	13.33 CUYD		.00		
CONCRETE WALL DEMO	SUMP (@COLUMN 15) WALLS	.51 CUYD		.00		
CONCRETE WALL DEMO	WALLS	1.45 CUYD		.00		
CONCRETE WALL DEMO	WALLS	4.15 CUYD		.00		
CONCRETE WALL DEMO	WALLS	13.33 CUYD		.00		
CONCRETE WALL DEMO	WALLS	11.56 CUYD		.00		
CONCRETE WALL DEMO	WALLS	3.11 CUYD		.00		
CONCRETE WALL DEMO	WALLS	2.96 CUYD		.00		
CONCRETE	MASONRY	BELOW GRADE	E	7466.67	9706.67	205.33
MASONRY DEMO	CONCRETE BRICK WALL	10240.00 SQFT		.00		
MASONRY DEMO	CONCRETE BRICK WALL	960.00 SQFT		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	8533.33	11093.33	234.67
MASONRY WALL DEMO	MASONRY WALLS	12800.00 SQFT		580.08		
PIPING	CLAY PIPING	BELOW GRADE	E	34.80	45.24	2.44
SANITARY SEWER DEMO	SN-1-1"	5.00 LNFT		.00		
SANITARY SEWER DEMO	SN-10-3"	20.00 LNFT		.00		
SANITARY SEWER DEMO	SN-12-4"	100.00 LNFT		.00		
SANITARY SEWER DEMO	SN-2"	10.00 LNFT		.00		
SANITARY SEWER DEMO	SN-27-3"	10.00 LNFT		.00		
SANITARY SEWER DEMO	SN-3"	30.00 LNFT		.00		
SANITARY SEWER DEMO	SN-9-4"	235.00 LNFT		.00		
CONCRETE	ACID BRICK	AT GRADE	F	2882.00	3746.60	201.74
ACID BRICK DEMO	ACID BRICK IN CHIP BRIQUETTING	1000.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK IN COOLANT CLARIFIERS	3159.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK IN OLD WATER TREATMENT	2255.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK IN SCRAP PICKLING	2232.00 SQFT		.00		
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	100.00	200.00	1.20
CEILING DEMO	CEILING DEMO	1600.00 SQFT		580.08		
FIRE BRICK	FIRE BRICK	ABOVE GRADE	G	85.33	110.93	5.97
FIRE BRICK DEMO	FIRE BRICK IN OVEN LINER	256.00 SQFT		.00		
TILE	FLOOR TILE	ABOVE GRADE	G	4.79	5.75	.23
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	230.00 SQFT		.00		
TILE	FLOOR TILE	AT GRADE	G	90.10	108.12	4.33
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	4325.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	2858.33	3430.00	160.72
EXT TRANSITE DEMO	EXT TRANSITE PANELS	78400.00 SQFT		580.08		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	1291.67	1550.00	71.30
INT TRANSITE DEMO	INT TRANSITE PANELS	62000.00 SQFT		580.08		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	6453.12	7743.75	362.85
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	177000.00 SQFT			580.08	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	504.60	2018.42	1.14
HVAC DEMO	INSULATION	6055.25 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	664.66	2658.63	1.50
PIPING DEMO	INSULATION	7975.90 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	119.13	142.95	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	744.56 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	65.18	130.35	2.12
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	105.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	1155.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	570.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" TELEPHONE CONDUIT	55.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	90.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	765.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	75.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2G-171 CONDUIT	50.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6-350 4" ELECTRICAL CONDUIT	110.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-10 CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-100 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-101 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-104 CONDUIT	145.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-104B CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-105F CONDUIT	15.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-106 CONDUIT	75.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11 CONDUIT	25.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-112 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-113 CONDUIT	65.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-117 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-119 CONDUIT	55.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11B CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11C CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11D CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11F CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11G CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11H CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11K CONDUIT	20.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11L CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-11M CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-120 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-12B CONDUIT	50.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-137 CONDUIT	155.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-138 CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-144 CONDUIT	50.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-145 CONDUIT	100.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-148 CONDUIT	20.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-149 1.5 ELECTRICAL CONDUIT	20.00 LNFT			.00	

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Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
ELECTRICAL CONDUIT DEMO	6C-14E CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-15 CONDUIT	95.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-151 CONDUIT	60.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-153 CONDUIT	40.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-154 CONDUIT	25.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-155 CONDUIT	20.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-156 CONDUIT	80.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-157 CONDUIT	65.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-158 CONDUIT	60.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-16 CONDUIT	35.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-161 CONDUIT	30.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-162 CONDUIT	70.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-167 (15 #12) CONDUIT	150.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-168 CONDUIT	80.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-169 CONDUIT	75.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-17 CONDUIT	140.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-170 CONDUIT	115.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-172 CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-175 CONDUIT	30.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-18 CONDUIT	25.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-180 CONDUIT	50.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-181 CONDUIT	40.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-182 CONDUIT	20.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-184 CONDUIT	65.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-185 CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-186 CONDUIT	75.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-187 CONDUIT	40.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-200 CONDUIT	65.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-204 CONDUIT	20.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-205 CONDUIT	35.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-211 CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-220 CONDUIT	25.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-221 CONDUIT	115.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-221A CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222 CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222A CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222B CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222C CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222D CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-222E CONDUIT	55.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-223 CONDUIT	30.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-224 CONDUIT	60.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-224A CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-225 CONDUIT	45.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-226 CONDUIT	25.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-227 CONDUIT	20.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-227A CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-228 CONDUIT	25.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-229 CONDUIT	85.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-23 CONDUIT	10.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-230 CONDUIT	95.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-231 CONDUIT	110.00	LNFT			.00
ELECTRICAL CONDUIT DEMO	6C-232 CONDUIT	105.00	LNFT			.00

Material	Material Description	Grade Level	FS	Unbulked Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)		
ELECTRICAL CONDUIT DEMO	6C-233 CONDUIT	135.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-234 CONDUIT	80.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-235 CONDUIT	70.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-236 CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-237 CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-238 CONDUIT	60.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-239 CONDUIT	30.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-23A CONDUIT	15.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-23B CONDUIT	65.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-23C CONDUIT	10.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-23E CONDUIT	10.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-24 CONDUIT	5.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-242 CONDUIT	15.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-243 CONDUIT	35.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-244 CONDUIT	35.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-245 CONDUIT	35.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-247 CONDUIT	10.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-248 CONDUIT	25.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-249 CONDUIT	60.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-250 CONDUIT	15.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-250A CONDUIT	15.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-251 CONDUIT	60.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-252A CONDUIT	10.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-253 CONDUIT	50.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-255 CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-256 CONDUIT	30.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-257 CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-257D CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-258A CONDUIT	80.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-260 CONDUIT	65.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-261 CONDUIT	10.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-261A CONDUIT	115.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-262 CONDUIT	110.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-263 CONDUIT	20.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-264 CONDUIT	15.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-265 CONDUIT	75.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-267 CONDUIT	85.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-268 CONDUIT	20.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-270 CONDUIT	50.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-271 CONDUIT	20.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-272 CONDUIT	55.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-273 CONDUIT	20.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-274 CONDUIT	85.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-276 .75" ELECTRICAL CONDUIT	80.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-277 CONDUIT	50.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-289 CONDUIT	5.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-290 CONDUIT	35.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-291 CONDUIT	40.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-294 CONDUIT	20.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-295 CONDUIT	25.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-296 CONDUIT	35.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-297 CONDUIT	50.00 LNFT			.00		
ELECTRICAL CONDUIT DEMO	6C-298 CONDUIT	50.00 LNFT			.00		

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Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL CONDUIT DEMO	6C-299 CONDUIT	60.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-303 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-307 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-308 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-313 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-317 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-318 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-319 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-327 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-328 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-329 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-330 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-336 CONDUIT	35.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-337 CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-339 CONDUIT	20.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-341 CONDUIT	115.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-342 CONDUIT	115.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-343 CONDUIT	115.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-344 CONDUIT	85.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-345 CONDUIT	85.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-350 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-351 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-351B CONDUIT	30.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-352 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-353 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-354 CONDUIT	95.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-355 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-356 CONDUIT	70.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-357 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-358 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-359 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-360 CONDUIT	15.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-361 CONDUIT	30.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-362 CONDUIT	20.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-37 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-38 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-383 CONDUIT	15.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-385 CONDUIT	10.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-38A CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-45A CONDUIT	50.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-49 CONDUIT	5.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-51 CONDUIT	30.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-52 CONDUIT	110.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-53 CONDUIT	40.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-55 CONDUIT	65.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-59 CONDUIT	90.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-60 CONDUIT	120.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-63 CONDUIT	110.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-64 CONDUIT	95.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-65 CONDUIT	80.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-66 CONDUIT	60.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-67 CONDUIT	55.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6C-69 CONDUIT	15.00 LNFT			.00	

Source: 6A METALS FABRICATION PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL CONDUIT DEMO	6C-7 CONDUIT	25.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-70 CONDUIT	5.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-70A CONDUIT	5.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-7A CONDUIT	25.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-8 CONDUIT	45.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-8A CONDUIT	35.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-9 CONDUIT	25.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-93K CONDUIT	20.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-95 CONDUIT	10.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-96 CONDUIT	30.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-98B CONDUIT	15.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-98C CONDUIT	15.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-99 CONDUIT	30.00	LNFT		.00	
ELECTRICAL CONDUIT DEMO	6C-9A CONDUIT	25.00	LNFT		.00	
FABRIC	FABRIC	ABOVE GRADE	I	21.49	42.99	.69
POLYETHYLENE SHEETING DEMO	POLYETHYLENE SHEETING	2560.00	SQFT		.00	
POLYETHYLENE SHEETING DEMO	POLYETHYLENE SHEETING	5760.00	SQFT		.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	300.00	360.00	.68
INSULATION DEMO	INSULATION (RIGID)	1800.00	SQFT		580.08	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	3600.00	7200.00	54.00
MISC. MATERIAL DEMO	MISC. DEBRIS	3600.00	CUFT		580.08	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	625.43	750.51	.95
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	744.56	CUFT		.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	150.00	300.00	5.40
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1800.00	SQFT		580.08	
WINDOWS	WINDOWS	ABOVE GRADE	I	2133.33	4266.67	42.67
WINDOW DEMO	WINDOWS	12800.00	SQFT		580.08	

000469

Source: 6B PLANT 6 COVERED STORAGE AREA Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	44.08	736.16	10.80
COLUMN DEMO	W21 X 55 MEMBERS	2.60 TONS			580.08	
ROOF FRAMING DEMO	MISC STEEL (HANGERS ETC)	2.00 TONS			580.08	
ROOF FRAMING DEMO	MISC. ANGLES	1.00 TONS			580.08	
ROOF FRAMING DEMO	W21 X 55 MEMBERS	5.20 TONS			580.08	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.02	14.04	.79
PIPING DEMO	2" DIAMETER & LESS	268.14 LNFT			580.08	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	11.51	23.01	.82
PIPING DEMO	2-1/2" TO 4" DIAMETER	109.87 LNFT			580.08	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	4.43	8.86	1.22
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	889.45 SQFT			580.08	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.34	.68	.08
METAL WALL PANEL DEMO	EXT. METAL PANELS	151.65 SQFT			580.08	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	4.14	8.29	1.02
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1860.00 SQFT			580.08	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	144.00	187.20	10.80
CONCRETE FOOTING DEMO	FOOTINGS	4.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.89 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	840.00	1092.00	63.00
CONCRETE SLAB DEMO	SLAB AT GRADE	31.11 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	7.41	29.65	.02
HVAC DEMO	INSULATION	88.95 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	5.02	20.08	.01
PIPING DEMO	INSULATION	60.24 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	19.73	23.67	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	123.30 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	103.57	124.29	.16
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	123.30 CUFT			.00	

Source: 6C PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH) Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.24	204.49	3.00
COLUMN DEMO	W18 X 40 MEMBERS	1.00 TONS			580.00	
ROOF FRAMING DEMO	W18 X 45 MEMBERS	2.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.32	4.64	.19
ELECTRICAL DEMO	2" DIAMETER & LESS	354.55 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	2.35	4.69	.26
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	39.84 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1.80	5.30	.06
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	13.50	47.25	.77
EQUIPMENT DEMO	HVAC EQUIPMENT	15.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	8.10	28.35	.35
EQUIPMENT DEMO	PROCESS EQUIPMENT	9.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.77	15.54	.88
PIPING DEMO	2" DIAMETER & LESS	329.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	7.06	14.12	.51
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	3.77	7.54	.17
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.20	.70	.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	1.50	5.25	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	15.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.90	3.15	.04
EQUIPMENT DEMO	PROCESS EQUIPMENT	9.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.86	1.73	.10
PIPING DEMO	2" DIAMETER & LESS	329.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	.78	1.57	.06
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	.42	.84	.02
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			580.00	

000171

Source: 6C PLANT 6 ELECTROSTATIC PRECIPITATOR (SOUTH) Component Category: 3

Material / Work Type	Material Description / Item	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	7.97	15.95	2.20
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1599.99 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	3.12	6.24	.77
METAL WALL PANEL DEMO	EXT. METAL PANELS	1400.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	1.34	2.67	.33
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	600.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	160.00	208.00	12.00
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	5.93 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	256.00	332.80	19.20
CONCRETE SLAB DEMO	SLAB AT GRADE	9.48 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	13.33	53.23	.03
HVAC DEMO	INSULATION	160.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	6.02	24.10	.01
PIPING DEMO	INSULATION	72.29 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	29.59	35.51	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	184.95 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	155.36	186.43	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	184.95 CUFT			.00	

Source: 6D PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL) Component Category: 9

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	6.12	102.24	1.50
MISC. STEEL DEMO	MISC. ANGLES	1.50 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.16	2.32	.19
ELECTRICAL DEMO	2" DIAMETER & LESS	177.27 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.18	2.36	.13
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	20.00 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	2.00	4.00	.01
ELECTRICAL DEMO	ELECTRICAL FIXTURES	1.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1.00	3.50	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	11.00	38.50	.12
EQUIPMENT DEMO	HVAC EQUIPMENT	11.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5.00	17.50	.12
EQUIPMENT DEMO	PROCESS EQUIPMENT	5.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	4.19	8.38	.47
PIPING DEMO	2" DIAMETER & LESS	160.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.19	8.38	.30
PIPING DEMO	2-1/2" TO 4" DIAMETER	40.00 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	4.19	8.38	.18
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	7.97	15.95	2.20
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1599.99 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	486.00	631.80	36.45
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	453.60	589.68	34.02
CONCRETE SLAB DEMO	SLAB AT GRADE	16.80 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	13.33	53.33	.03
HVAC DEMO	INSULATION	160.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	3.01	12.05	.01
PIPING DEMO	INSULATION	36.14 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	23.52	28.23	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	147.01 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	123.49	148.19	.19
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	147.01 CUFT			.00	

Source: 6D PLANT 6 ELECTROSTATIC PRECIPITATOR (CENTRAL) Component Category: 9

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	

Source: 6E PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH) Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	12.24	204.49	3.00
COLUMN DEMO	W21 X 44 MEMBERS	1.00 TONS			580.00	
ROOF FRAMING DEMO	W21 X 49 MEMBERS	2.00 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.33	2.65	.22
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	.58	1.16	.06
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	9.84 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	45.00	157.50	.36
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	50.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	45.90	160.65	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	51.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	65.70	229.95	.18
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	73.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	371.70	1300.95	5.49
EQUIPMENT DEMO	PROCESS EQUIPMENT	413.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	7.07	14.14	.80
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	7.06	14.12	.51
PIPING DEMO	2-1/2" TO 4" DIAMETER	74.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	3.77	7.54	.17
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	5.00	17.50	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	50.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	5.10	17.85	.02
EQUIPMENT DEMO	HVAC EQUIPMENT	51.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	7.30	25.55	.02
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	73.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	41.30	144.55	.61
EQUIPMENT DEMO	PROCESS EQUIPMENT	413.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.79	1.57	.09
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			580.00	

000475

Source: 6E PLANT 6 ELECTROSTATIC PRECIPITATOR (NORTH) Component Category: 3

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		C	.78	1.57	.06
PIPING DEMO	2-1/2" TO 4" DIAMETER		74.93 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE		C	.42	.84	.02
PIPING DEMO	OVER 4" DIAMETER		10.00 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE		D	7.97	15.95	2.20
HVAC DEMO	DUCTWORK DEMO (ROUND)		1599.99 SQFT			580.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE		D	2.87	5.74	.71
METAL WALL PANEL DEMO	EXT. METAL PANELS		1288.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE		D	1.11	2.23	.28
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)		500.00 SQFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE		E	240.00	312.00	18.00
CONCRETE CURBING DEMO	W/TURNDOWN CURBS		8.89 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	358.40	465.92	26.88
CONCRETE SLAB DEMO	SLAB AT GRADE		13.27 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE		H	13.33	53.33	.03
HVAC DEMO	INSULATION		160.00 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	5.02	20.08	.01
PIPING DEMO	INSULATION		60.24 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	29.59	35.51	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		184.95 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	155.36	186.43	.23
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		184.95 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	20.41	340.82	5.00
COLUMN DEMO	W21 X 44 MEMBERS	2.00 TONS			580.08	
ROOF FRAMING DEMO	MISC STEEL (HANGERS ETC)	2.00 TONS			580.08	
ROOF FRAMING DEMO	MISC. ANGLES	1.00 TONS			580.08	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	12.50	208.75	3.06
SHEET METAL PILING DEMO	SHEET METAL PILING	3.06 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	20.83	41.67	.42
EXT DOOR DEMO	EXT DOORS (MAN & OH)	125.00 SQFT			580.08	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	2.99	5.97	.50
ELECTRICAL DEMO	2" DIAMETER & LESS	456.36 LNFT			580.08	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	113.40	396.90	.99
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	126.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	116.10	406.35	.36
EQUIPMENT DEMO	HVAC EQUIPMENT	129.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	167.40	585.90	.54
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	186.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	946.80	3313.80	13.95
EQUIPMENT DEMO	PROCESS EQUIPMENT	1052.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	833.92	1667.83	59.72
PIPING DEMO	2-1/2" TO 4" DIAMETER	399.47 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3994.67 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1997.33 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1498.00 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73 LNFT			580.08	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	12.60	44.10	.11
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	126.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	12.90	45.15	.04
EQUIPMENT DEMO	HVAC EQUIPMENT	129.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	18.60	65.10	.06
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	186.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	105.20	368.20	1.55
EQUIPMENT DEMO	PROCESS EQUIPMENT	1052.00 CUFT			.00	

000477

Source: 6F PLANT 6 SALT OIL HEAT TREAT BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity		FS Cat.	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		C	92.66	185.31	6.64
PIPING DEMO	2-1/2" TO 4" DIAMETER	399.47	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	3994.67	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1997.33	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1498.00	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60	LNFT			580.08	
PIPING DEMO	2-1/2" TO 4" DIAMETER	199.73	LNFT			580.08	
DUCTWORK	DUCTWORK	ABOVE GRADE		D	3.69	7.39	1.02
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	741.09	SQFT			580.08	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE		D	4.80	9.60	1.19
METAL WALL PANEL DEMO	EXT. METAL PANELS	2156.00	SQFT			580.08	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE		D	3.00	6.00	.74
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	1346.40	SQFT			580.08	
CONCRETE	CONCRETE	BELOW GRADE		E	424.00	551.20	31.80
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	4.15	CUYD			.00	
CONCRETE CURBING DEMO	W/TURNDOWN CURBS	6.52	CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PAD	.89	CUYD			.00	
CONCRETE SUMP DEMO	SUMP	.44	CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH	3.70	CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	689.00	895.70	51.68
CONCRETE SLAB DEMO	LOADING RAMP SLAB	.89	CUYD			.00	
CONCRETE SLAB DEMO	LOADING RAMP SLAB	1.81	CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	22.81	CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE		H	6.18	24.70	.01
HVAC DEMO	INSULATION	74.11	SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	192.77	771.08	.43
PIPING DEMO	INSULATION	2313.25	SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	51.60	61.92	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48	CUFT			.00	
FABRIC	FABRIC	ABOVE GRADE		I	3.18	6.37	.10
POLYETHYLENE SHEETING DEMO	POLYETHYLENE SHEETING	1232.00	SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	270.89	325.06	.41
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	322.48	CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	368.91	6160.80	90.38
COLUMN DEMO	W12 X 27 MEMBERS	1.09 TONS			580.08	
COLUMN DEMO	W12 X 53 MEMBERS	2.97 TONS			580.08	
COLUMN DEMO	W21 X 112 MEMBERS	.78 TONS			580.08	
COLUMN DEMO	W21 X 96 MEMBERS	.67 TONS			580.08	
COLUMN DEMO	W24 X 120 MEMBERS	1.85 TONS			580.08	
COLUMN DEMO	W8 X 24 MEMBERS	.34 TONS			580.08	
COLUMN DEMO	W8 X 40 MEMBERS	.28 TONS			580.08	
FLOOR FRAMING DEMO	MISC. ANGLES	2.00 TONS			580.08	
FLOOR FRAMING DEMO	WT4 X 10 MEMBERS	4.97 TONS			580.08	
FLOOR FRAMING DEMO	WT8 X 18 MEMBERS	.94 TONS			580.08	
FLOOR FRAMING DEMO	WT8 X 25 MEMBERS	.96 TONS			580.08	
STEEL COLUMN DEMO.	W12 X 40 MEMBERS	.56 TONS			580.08	
WALL FRAMING	C-CHANNEL FRAMING	10.10 TONS			580.08	
COLUMN DEMO	W12 X 27 MEMBERS	2.42 TONS			595.08	
COLUMN DEMO	W12 X 53 MEMBERS	7.00 TONS			595.08	
COLUMN DEMO	W21 X 112 MEMBERS	1.49 TONS			595.08	
COLUMN DEMO	W21 X 96 MEMBERS	1.54 TONS			595.08	
COLUMN DEMO	W8 X 24 MEMBERS	.74 TONS			595.08	
COLUMN DEMO	W8 X 40 MEMBERS	.62 TONS			595.08	
FLOOR FRAMING	W12 X 27 MEMBERS	3.56 TONS			595.08	
FLOOR FRAMING	W12 X 40 MEMBERS	.30 TONS			595.08	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.14 TONS			595.08	
FLOOR FRAMING DEMO	W14 X 30 MEMBERS	.71 TONS			595.08	
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	2.51 TONS			595.08	
FLOOR FRAMING DEMO	W14 X 48 MEMBERS	3.36 TONS			595.08	
FLOOR FRAMING DEMO	W14 X 53 MEMBERS	1.06 TONS			595.08	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.48 TONS			595.08	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.16 TONS			595.08	
FLOOR PLATING DEMO	HEAVY FLOOR PLATE	3.18 TONS			595.08	
FLOOR PLATING DEMO	STEEL GRATING	.32 TONS			595.08	
FLOOR PLATING DEMO	STEEL GRATING	5.47 TONS			595.08	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	2.17 TONS			595.08	
STEEL COLUMN DEMO.	W12 X 40 MEMBERS	.96 TONS			595.08	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	.43 TONS			618.00	
ROOF FRAMING	C-CHANNEL FRAMING	5.47 TONS			618.00	
ROOF FRAMING	MISC. ANGLES	.88 TONS			618.00	
ROOF FRAMING	W10 X 21 MEMBERS	1.14 TONS			618.00	
ROOF FRAMING	W12 X 27 MEMBERS	4.42 TONS			618.00	
ROOF FRAMING	W12 X 40 MEMBERS	3.36 TONS			618.00	
ROOF FRAMING	W8 X 13 MEMBERS	5.46 TONS			618.00	
ROOF FRAMING	W8 X 17 MEMBERS	.38 TONS			618.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	.02 TONS			618.00	
ROOF FRAMING DEMO	MISC STEEL (HANGERS ETC)	.15 TONS			618.00	
ROOF FRAMING DEMO	MISC STEEL (HANGERS ETC)	1.00 TONS			618.00	
DOORS	DOORS	ABOVE GRADE	B	27.33	54.67	.55
EXT DOOR DEMO	EXT DOORS (MAN & OH)	164.00 SQFT			580.08	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	34.93	69.85	5.87
ELECTRICAL DEMO	2" DIAMETER & LESS	2351.82 LNFT			580.08	
ELECTRICAL DEMO	2" DIAMETER & LESS	2984.55 LNFT			580.08	

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Source: 6G PLANT 6 SUMP BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.21	16.42	.89
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	109.38 LNFT			580.08	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			580.08	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	86.00	172.00	.54
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			580.08	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	33.00 EACH			595.08	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	90.00	180.00	2.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	9.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	696.60	2438.10	6.30
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	774.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	711.00	2488.50	2.16
EQUIPMENT DEMO	HVAC EQUIPMENT	790.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1025.10	3587.85	3.33
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1139.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5796.90	20289.15	85.14
EQUIPMENT DEMO	PROCESS EQUIPMENT	6441.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	124.82	249.64	14.07
PIPING DEMO	2" DIAMETER & LESS	5297.63 LNFT			618.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	264.48	528.97	18.94
PIPING DEMO	2-1/2" TO 4" DIAMETER	2506.67 LNFT			618.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			618.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	457.87	915.74	20.22
PIPING DEMO	OVER 4" DIAMETER	810.49 LNFT			580.08	
PIPING DEMO	OVER 4" DIAMETER	404.05 LNFT			618.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	77.40	270.90	.70
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	774.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	79.00	276.50	.24
EQUIPMENT DEMO	HVAC EQUIPMENT	790.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	113.90	398.65	.37
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	1139.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	644.10	2254.35	9.46
EQUIPMENT DEMO	PROCESS EQUIPMENT	6441.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	13.87	27.74	1.56
PIPING DEMO	2" DIAMETER & LESS	5297.63 LNFT			618.00	

Source: 6G PLANT 6 SUMP BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	29.39	58.77	2.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	2506.67 LNFT			618.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			618.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	50.87	101.75	2.25
PIPING DEMO	OVER 4" DIAMETER	810.49 LNFT			580.08	
PIPING DEMO	OVER 4" DIAMETER	404.05 LNFT			618.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	21.00	42.00	.42
LOUVER DEMO	EXT LOUVERS	126.00 SQFT			580.08	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.18	24.35	3.01
METAL WALL PANEL DEMO	EXT. METAL PANELS	5466.00 SQFT			580.08	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	8.91	17.82	2.20
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	4000.00 SQFT			580.08	
CONCRETE	CONCRETE	ABOVE GRADE	E	216.00	280.80	16.20
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	8.00 CUYD			580.08	
CONCRETE	CONCRETE	BELOW GRADE	E	3979.00	5172.70	298.43
CONCRETE CURBING DEMO	CURBS INTEGRAL INTERIOR	2.04 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	DECK SLAB FNDN.	53.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	OCTAGON EQUIPMENT FNDN.	53.78 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT	8.00 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH	25.33 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH	4.44 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	6276.75	8159.77	470.76
CONCRETE EQUIPMENT FNDN DEMO	DECK SLAB FNDN.	29.04 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	OCTAGON EQUIPMENT FNDN.	29.04 CUYD			.00	
CONCRETE FOOTING DEMO	EXTERIOR COL FOOTINGS	4.00 CUYD			.00	
CONCRETE FOOTING DEMO	EXTERIOR COL FOOTINGS	4.17 CUYD			.00	
CONCRETE FOOTING DEMO	EXTERIOR COL FOOTINGS	9.39 CUYD			.00	
CONCRETE FOOTING DEMO	EXTERIOR COL FOOTINGS	12.52 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 1 (MASS FNDN)	44.72 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 1 DECK SLAB	7.26 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 15	2.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 2	10.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 3	2.96 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTING 4	10.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	11.80 CUYD			.00	
CONCRETE PEDESTAL DEMO	OTHER TANK PEDESTALS	.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTAL 4/FOOTING	14.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.75 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.50 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.96 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.96 CUYD			.00	

Source: 6G PLANT 6 SUMP BUILDING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS 4/FOOTING	4.74 CUYD		.00		
CONCRETE PEDESTAL DEMO	TANK FNDN PEDESTALS	7.11 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	2566.20	3336.06	192.46
CONCRETE SLAB DEMO	SLAB AT GRADE	95.04 CUYD		.00		
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	32.94	65.88	.40
CEILING DEMO	CEILING DEMO	527.00 SQFT		580.08		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	24.40	29.29	1.35
INT TRANSITE DEMO	INT TRANSITE PANELS	1171.44 SQFT		580.08		
INSULATION	PIPING INSULATION	ABOVE GRADE	H	171.69	686.75	.39
PIPING DEMO	INSULATION	2060.24 SQFT		.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	47.04	56.45	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	294.03 CUFT		.00		
FABRIC	FABRIC	ABOVE GRADE	I	11.05	22.10	.36
POLYETHYLENE SHEETING DEMO	POLYETHYLENE SHEETING	4277.00 SQFT		.00		
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	1642.83	1971.40	3.70
INSULATION DEMO	INSULATION (BAT)	9857.00 SQFT		580.08		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	246.98	296.38	.37
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	294.03 CUFT		.00		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	231.00	3857.78	56.60
COLUMN DEMO	TUBE STEEL FRAMING	1.26 TONS			585.00	
ROOF FRAMING DEMO	METAL DECKING	20.63 TONS			585.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	28.20 TONS			585.00	
ROOF FRAMING DEMO	W12 X 27 MEMBERS	6.51 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	74.50	149.00	1.49
EXT DOOR DEMO	EXT DOORS (MAN & OH)	447.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	23.22	46.45	3.90
ELECTRICAL DEMO	2" DIAMETER & LESS	3548.18 LNFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	14.66	29.32	1.59
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	248.91 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	16.00	32.00	.10
ELECTRICAL DEMO	ELECTRICAL FIXTURES	8.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	280.00	560.00	7.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	28.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	18.00	63.00	1.06
EQUIPMENT DEMO	HVAC EQUIPMENT	18.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.02
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.01
EQUIPMENT DEMO	PROCESS EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	44.50	88.99	5.01
PIPING DEMO	2" DIAMETER & LESS	1699.66 LNFT			585.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	41.83	83.66	3.00
PIPING DEMO	2-1/2" TO 4" DIAMETER	399.47 LNFT			585.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	8.38	16.76	.37
PIPING DEMO	OVER 4" DIAMETER	20.00 LNFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	3505.50	4557.15	262.91
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	76.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	50.67 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.17 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	16200.00	21060.00	1215.00
CONCRETE SLAB DEMO	CONCRETE SLABS	28.03 CUYD			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE SLAB DEMO	CONCRETE SLABS	571.97 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	5376.00	6988.80	147.84
MASONRY WALL DEMO	MASONRY WALLS	1785.00 SQFT			585.00	
MASONRY WALL DEMO	MASONRY WALLS	6279.00 SQFT			585.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	28.11	112.45	.06
PIPING DEMO	INSULATION	337.35 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	75.88	91.05	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	474.24 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	4044.67	4853.60	9.10
INSULATION DEMO	INSULATION (RIGID)	24268.00 SQFT			585.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	100.00	200.00	1.50
MISC. MATERIAL DEMO	MISC. DEBRIS	100.00 CUFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	398.36	478.03	.60
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	474.24 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	2022.33	4044.67	72.80
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	24268.00 SQFT			585.00	

Source: 72 DRUM STORAGE BUILDING Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	51.20	854.97	12.54
COLUMN DEMO	W10 X 21 MEMBERS	2.65 TONS			585.00	
EXT WALL FRAMING	C-CHANNEL FRAMING	5.45 TONS			585.00	
EXT WALL FRAMING	MISC. ANGLES	2.83 TONS			585.00	
ROOF FRAMING DEMO	STEEL TRUSSES	1.62 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	21.00	42.00	.42
EXT DOOR DEMO	EXT DOORS (MAN & OH)	126.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	4.65	9.29	.78
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			585.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	2.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1.00	3.50	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1.00	3.50	.03
EQUIPMENT DEMO	PROCESS EQUIPMENT	1.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	4.40	8.80	.31
PIPING DEMO	2-1/2" TO 4" DIAMETER	42.00 LNFT			585.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	445.81	579.56	33.44
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.96 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.55 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	7.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	871.50	1132.95	65.36
CONCRETE SLAB DEMO	SLAB AT GRADE	32.28 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	61.13	73.36	3.44
EXT TRANSITE DEMO	EXT TRANSITE PANELS	1676.84 SQFT			585.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	52.06	62.47	2.93
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1428.00 SQFT			585.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1.00	4.02	.00
PIPING DEMO	INSULATION	12.05 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	47.04	56.45	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	294.03 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	246.98	296.38	.37
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	294.03 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	33.00	66.00	.66
WINDOW DEMO	WINDOWS	198.00 SQFT			585.00	

Source: 72 DRUM STORAGE BUILDING Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	

Source: 73A FIRE BRIGADE TRAINING CENTER BLDG. Component Category: 1

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	877.66	1140.96	65.82
CONCRETE FOOTING DEMO	FOOTINGS (AVG.)	24.00 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.51 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	B	416.00	540.80	31.20
CONCRETE SLAB DEMO	SLAB AT GRADE	15.41 CUYD			.00	

Source: 74A PLANT 2 EAST PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE SLABS	AT GRADE	E	3862.00	5020.60	289.65
CONCRETE SLAB DEMO	74A PAD	143.04 CUYD			.00	

000183

Source: 74B PLANT 2 WEST PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	S	5500.00	7150.00	412.50

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74B PAD	203.70 CUYD	.00

000489

Source: 74C PLANT 8 EAST PAD Component Category: 8

7558

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	7236.00	9406.80	542.70

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74C PAD	268.00 CUYD	.00

000480

Source: 74D PLANT 8 WEST PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	8	4922.00	6398.60	369.15

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74D PAD	182.30 CUYD	.00

000491

Source: 74E PLANT 4 PAD Component Category: 8 7558

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	8527.00	11085.10	639.52

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74E PAD	315.81 CUYD	.00

Source: 74F PLANT 7 PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	872.00	1133.60	65.40

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74F PAD	32.30 CUYD	.00

000193

Source: 74G PLANT 5 EAST PAD Component Category: 8 7558

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	2346.00	3049.80	175.95

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74G PAD	86.89 CUYD	.00

Source: 74H PLANT 5 SOUTH PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	1500.00	1950.00	112.50

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74H PAD	55.56 CUYD	.00

000495

Source: 74J PLANT 6 PADS Component Category: 8

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	1525.00	1982.50	114.37

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74J PAD	56.48 CUYD	.00

Source: 74K PLANT 9 PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	5103.00	6633.90	382.73

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74K PAD	189.00 CUYD	.00

000197

Source: 74L BUILDING 65 WEST PAD Component Category: 8

7558

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE	ABOVE GRADE	E	2713.50	3527.55	203.51
MISC CONCRETE DEMO	CONCRETE SHIELDING	100.50 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	11283.00	14667.90	846.23
CONCRETE SLAB DEMO	74L PAD	417.89 CUYD			.00	

Source: 74M BUILDING 64 EAST PAD & R.R. DOCK Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	12103.00	15733.90	907.73

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74M PAD	448.26 CUYD	.00

000499

Source: 74N BUILDING 12 NORTH PAD Component Category: 8 7558

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	S	3269.00	4249.70	245.17

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74N PAD	121.07 CUYD	.00

Source: 74P DECONTAMINATION PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	32883.30	42748.29	2466.25

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	CONCRETE SLABS	1108.90 CUYD	.00
CONCRETE SLAB DEMO	CONCRETE SLABS	109.00 CUYD	.00

000701

Source: 74Q PLANT 8 OLD METAL DISSOLVER PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE SLABS	AT GRADE	E	850.00	1105.00	63.75
CONCRETE SLAB DEMO	74Q PAD	31.48 CUYD			.00	
CONCRETE	ACID BRICK	AT GRADE	F	437.33	568.53	30.61
ACID BRICK DEMO	ACID BRICK IN METAL DISSOLVER	1312.00 SQFT			.00	

Source: 74R PLANT 8 NORTH PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	2054.00	2670.20	154.05

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74R PAD	76.07 CUYD	.00

000503

Source: 74S BUILDING 63 WEST PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	1606.00	2087.80	120.45

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74S PAD	59.48 CUYD	.00

Source: 74T PLANT 1 STORAGE PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE	CONCRETE SLABS	AT GRADE	B	278667.00	362267.10	20900.03
CONCRETE SLAB DEMO	CONCRETE SLABS	793.00 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	1413.00 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	7644.00 CUYD			.00	
CONCRETE SLAB DEMO	CONCRETE SLABS	471.00 CUYD			.00	

Source: 74U PILOT PLANT PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	E	3136.00	4076.80	235.20

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74U PAD	116.15 CUYD	.00

Source: 74V LABORATORY PAD Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	8	1347.00	1751.10	101.03

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74V PAD	49.89 CUYD	.00

000507

Source: 74W BUILDING 39A PAD Component Category: 8

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE SLABS	AT GRADE	B	2750.00	3575.00	206.25

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE SLAB DEMO	74W PAD	101.85 CUYD	.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	205.40	3430.18	50.32
COLUMN DEMO	TUBE STEEL FRAMING	.68 TONS			583.83	
EXT WALL FRMNG DEMO	W8 X 24 MEMBERS	19.87 TONS			583.83	
MISC. STEEL DEMO	MISC. ANGLES	1.66 TONS			583.83	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	28.12 TONS			583.83	
DOORS	DOORS	ABOVE GRADE	B	60.50	121.00	1.21
EXT DOOR DEMO	EXT DOORS (MAN & OH)	363.00 SQFT			583.83	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	7.16	14.33	1.20
ELECTRICAL DEMO	2" DIAMETER & LESS	1094.55 LNFT			583.83	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	2.93	5.85	.32
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	49.69 LNFT			583.83	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	20.00	40.00	.13
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			583.83	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	230.00	460.00	5.75
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	23.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	8.00	28.00	.24
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	8.00 CUFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	200.80	401.59	14.38
PIPING DEMO	2-1/2" TO 4" DIAMETER	1917.47 LNFT			583.83	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	192.64	385.28	8.51
PIPING DEMO	OVER 4" DIAMETER	459.89 LNFT			583.83	
LOUVERS	LOUVERS	ABOVE GRADE	D	12.00	24.00	.24
LOUVER DEMO	EXT LOUVERS	72.00 SQFT			583.83	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	17.90	35.80	4.42
METAL WALL PANEL DEMO	EXT. METAL PANELS	8035.00 SQFT			583.83	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	54.46	108.92	13.45
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	24450.00 SQFT			583.83	
CONCRETE	CONCRETE	BELOW GRADE	E	60.00	78.00	4.50
CONCRETE CURBING DEMO	CONCRETE CURBING	2.22 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1151.33	1496.73	86.35
CONCRETE FOOTING DEMO	FOOTINGS	2.37 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	15.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	21.09 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.63 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	13013.33	16917.33	976.00

000703

Source: 77 FINISHED PRODUCTS WAREHOUSE(4A) Component Category: 2

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE SLAB DEMO	SLAB AT GRADE	481.98 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	62.25	249.00	.14
PIPING DEMO	INSULATION	746.99 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	25.80	30.96	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	161.24 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	135.44	162.53	.20
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	161.24 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	9.00	18.00	.18
WINDOW DEMO	WINDOWS	54.00 SQFT			583.83	

Source: 78 D & D BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	238.61	3984.79	58.46
COLUMN DEMO	TUBE STEEL FRAMING	17.80 TONS			588.00	
EXT WALL FRMNG DEMO	LIGHT GAUGE METAL FRAMING	.41 TONS			588.00	
ROOF FRAMING	C-CHANNEL FRAMING	.39 TONS			588.00	
ROOF FRAMING	STEEL GRATING	.29 TONS			588.00	
ROOF FRAMING	W12 X 14 MEMBERS	3.22 TONS			588.00	
ROOF FRAMING	W12 X 14 MEMBERS	8.61 TONS			588.00	
ROOF FRAMING	W12 X 19 MEMBERS	.64 TONS			588.00	
ROOF FRAMING	W12 X 19 MEMBERS	.19 TONS			588.00	
ROOF FRAMING	W12 X 19 MEMBERS	.18 TONS			588.00	
ROOF FRAMING	W12 X 22 MEMBERS	.37 TONS			588.00	
ROOF FRAMING	W14 X 26 MEMBERS	.96 TONS			588.00	
ROOF FRAMING	W14 X 34 MEMBERS	.68 TONS			588.00	
ROOF FRAMING	W18 X 50 MEMBERS	1.00 TONS			588.00	
ROOF FRAMING	W21 X 62 MEMBERS	2.48 TONS			588.00	
ROOF FRAMING	W21 X 62 MEMBERS	1.18 TONS			588.00	
ROOF FRAMING	W8 X 17 MEMBERS	.14 TONS			588.00	
WALL FRAMING	C-CHANNEL FRAMING	3.07 TONS			588.00	
WALL FRAMING	MISC STEEL	.30 TONS			588.00	
WALL FRAMING	MISC. ANGLES	.56 TONS			588.00	
FLOOR FRAMING	STAIR FRAMING	1.25 TONS			604.00	
FLOOR FRAMING	W10 X 21 MEMBERS	1.32 TONS			604.00	
FLOOR FRAMING	W12 X 27 MEMBERS	5.89 TONS			604.00	
FLOOR FRAMING	W14 X 34 MEMBERS	.34 TONS			604.00	
FLOOR FRAMING	W16 X 31 MEMBERS	.31 TONS			604.00	
FLOOR FRAMING	W16 X 36 MEMBERS	1.73 TONS			604.00	
FLOOR FRAMING	W18 X 50 MEMBERS	5.00 TONS			604.00	
FLOOR FRAMING	W8 X 10 MEMBERS	.16 TONS			604.00	
DOORS	DOORS	ABOVE GRADE	B	91.17	182.33	1.82
EXT DOOR DEMO	EXT DOORS (MAN & OH)	547.00 SQFT			588.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	15.20	30.39	2.55
ELECTRICAL DEMO	2" DIAMETER & LESS	90.00 LNFT			588.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1018.18 LNFT			588.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	322.73 LNFT			588.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	385.45 LNFT			588.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	505.45 LNFT			588.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	8.90	17.80	.97
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	17.81 LNFT			588.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	133.28 LNFT			588.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	316.00	632.00	1.98
ELECTRICAL DEMO	ELECTRICAL FIXTURES	158.00 EACH			588.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	120.00	240.00	3.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	12.00 EACH			.00	

000711

Source: 78 D & D BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	457.20	1600.20	3.59
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	508.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	934.20	3269.70	4.09
EQUIPMENT DEMO	HVAC EQUIPMENT	1038.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	92.70	324.45	10.58
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	103.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2088.00	7308.00	17.91
EQUIPMENT DEMO	PROCESS EQUIPMENT	2320.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	58.43	116.85	6.58
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	480.00 LNFT			588.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	130.83	261.66	9.37
PIPING DEMO	2-1/2" TO 4" DIAMETER	109.87 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	998.67 LNFT			588.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	50.80	177.80	.40
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	508.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	103.80	363.30	.45
EQUIPMENT DEMO	HVAC EQUIPMENT	1038.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	10.30	36.05	1.18
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	103.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	232.00	812.00	1.99
EQUIPMENT DEMO	PROCESS EQUIPMENT	2320.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	6.49	12.98	.73
PIPING DEMO	2" DIAMETER & LESS	1099.66 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	300.00 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	600.00 LNFT			588.00	
PIPING DEMO	2" DIAMETER & LESS	480.00 LNFT			588.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	14.54	29.07	1.04
PIPING DEMO	2-1/2" TO 4" DIAMETER	109.87 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	159.73 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	119.87 LNFT			588.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	998.67 LNFT			588.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	24.67	49.33	.49
LOUVER DEMO	EXT LOUVERS	148.00 SQFT			588.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.03	24.06	2.97

Source: 78 D & D BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
METAL WALL PANEL DEMO	EXT. METAL PANELS	5400.00 SQFT			588.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.03	24.06	2.97
METAL WALL PANEL DEMO	INT. METAL PANELS	5400.00 SQFT			588.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1339.00	1740.70	100.42
CONCRETE FOOTING DEMO	LARGE FOOTINGS	29.04 CUYD			.00	
CONCRETE FOOTING DEMO	PEDESTALS	8.52 CUYD			.00	
CONCRETE FOOTING DEMO	SMALL FOOTINGS	12.04 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	1199.99	1559.98	90.00
CONCRETE SLAB DEMO	CONCRETE SLABS	44.44 CUYD			604.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	4333.33	5633.33	325.00
CONCRETE SLAB DEMO	SLAB AT GRADE	111.11 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	49.38 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	6960.00	9048.00	191.40
MASONRY WALL DEMO	MASONRY WALLS	10440.00 SQFT			588.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	43.75	87.50	.53
CEILING DEMO	CEILING DEMO	700.00 SQFT			588.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	57.23	228.92	.13
PIPING DEMO	INSULATION	686.75 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	30.35	36.42	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	189.70 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	3000.00	3600.00	6.75
INSULATION DEMO	INSULATION (BAT)	9575.00 SQFT			588.00	
INSULATION DEMO	INSULATION (RIGID)	8425.00 SQFT			588.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1100.00	2200.00	16.50
MISC. MATERIAL DEMO	MISC. DEBRIS	1100.00 CUFT			588.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	159.34	191.21	.24
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	189.70 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	702.07	1404.14	25.27
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	8424.83 SQFT			588.00	

000713

Source: 79 PLANT 6 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	170.98	2855.36	41.89
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	22.90 TONS			582.00	
FLOOR FRAMING DEMO	MISC. ANGLES	3.25 TONS			582.00	
FLOOR FRAMING DEMO	TUBE STEEL FRAMING	.44 TONS			582.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	15.30 TONS			582.00	
DOORS	DOORS	ABOVE GRADE	B	114.00	228.00	2.28
EXT DOOR DEMO	EXT DOORS (MAN & OH)	684.00 SQFT			582.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	19.90	39.81	3.34
ELECTRICAL DEMO	2" DIAMETER & LESS	3040.91 LNFT			582.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	64.00	128.00	.40
ELECTRICAL DEMO	ELECTRICAL FIXTURES	32.00 EACH			582.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	200.00	400.00	5.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	20.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	6.00	21.00	.14
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	6.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	52.35	104.70	5.90
PIPING DEMO	2" DIAMETER & LESS	1999.66 LNFT			582.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	10.46	20.92	.75
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			582.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	209.39	418.79	9.25
PIPING DEMO	OVER 4" DIAMETER	499.89 LNFT			582.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	12.00	24.00	.24
LOUVER DEMO	EXT LOUVERS	72.00 SQFT			582.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	20.05	40.10	4.95
METAL WALL PANEL DEMO	EXT. METAL PANELS	9000.00 SQFT			582.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	41.65	83.31	10.29
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	18700.00 SQFT			582.00	
CONCRETE	CONCRETE	BELOW GRADE	E	365.00	474.50	27.37
CONCRETE CURBING DEMO	CONCRETE CURBING	9.63 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH GRATING	3.89 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1209.96	1572.95	90.75
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.72 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	29.38 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	1.56 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.78 CUYD			.00	
CONCRETE STAIRWAY DEMO	STAIRWAYS	3.38 CUYD			.00	

Source: 79 PLANT 6 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
CONCRETE	CONCRETE SLABS	AT GRADE		E	11333.33	14733.33	850.00
CONCRETE SLAB DEMO	SLAB AT GRADE	419.75 CUYD				.00	.
CONCRETE	CONCRETE SLABS	BELOW GRADE		E	24.00	31.20	1.80
CONCRETE SLAB DEMO	SLAB BELOW GRADE (DOCK LEVELER)	.89 CUYD				.00	
CONCRETE	CONCRETE WALLS	BELOW GRADE		E	120.00	156.00	9.00
CONCRETE WALL DEMO	WALLS BELOW GRADE (DOCK LEVELER)	4.44 CUYD				.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	46.18	184.74	.10
PIPING DEMO	INSULATION	554.22 SQFT				.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT				.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE		I	3.00	6.00	.10
ELECTRICAL GROUND DEMO	#4 GROUND	550.00 LNFT				.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT				.00	

000715

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	3.14	6.28	.35
FUEL GAS DEMO	FG-3-.75"-03	30.00	LNFT		.00	
LOW PRESSURE FIRE LINE DEMO	DW-4-2"-01	30.00	LNFT		.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-1"-01	30.00	LNFT		.00	
PROCESS WATER DEMO	PA-5-1"-01	30.00	LNFT		.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	3.67	7.33	.26
SANITARY SEWER DEMO	SN-3"	5.00	LNFT		.00	
SANITARY SEWER DEMO	SN-4"	30.00	LNFT		.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	4.19	8.38	.19
SANITARY SEWER DEMO	SN-6"	10.00	LNFT		.00	
CONCRETE	CONCRETE	BELOW GRADE	B	1368.25	1778.73	102.62
CONCRETE CURBING DEMO	CURBING	.63	CUYD		.00	
CONCRETE CURBING DEMO	INTERIOR INTERGRAL CURB	.37	CUYD		.00	
CONCRETE SUMP DEMO	EQUIPMENT PIT SLAB FLR	.17	CUYD		.00	
CONCRETE SUMP DEMO	EQUIPMENT PIT WALLS	.44	CUYD		.00	
CONCRETE SUMP DEMO	ROUNDFLOORSUMP(WALL)	.07	CUYD		.00	
CONCRETE SUMP DEMO	ROUNDFLOORSUMPFLR	.07	CUYD		.00	
CONCRETE SUMP DEMO	TANK HOLDING PITS FLR	4.74	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	11.67	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH FLOOR	9.17	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	1.53	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	.33	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	10.37	CUYD		.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	11.11	CUYD		.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	B	380132.00	494171.60	28509.90
CONCRETE EQUIPMENT FNDN DEMO	2 EQUIP. FNONS 913 & 914:	3.06	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	CRANE FTGS FNDN&PIER	2.66	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP. #860 FNON FTG	5.63	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP. 910 & 911 FNDN FTGS	.39	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PADS	10.67	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PADS	3.11	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PADS	2.50	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIPMENT PADS	1.56	CUYD		.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP PAD TYPE 2&3	4.07	CUYD		.00	
CONCRETE FOOTING DEMO	ELEVATOR FTG MAT	26.74	CUYD		.00	
CONCRETE FOOTING DEMO	ELEVATOR FTG WALLS	11.11	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING	6.07	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING	7.78	CUYD		.00	
CONCRETE FOOTING DEMO	FOOTING	23.33	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FTGS TYPE I	250.00	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FTGS TYPE II	10.00	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FTGS TYPE III	2.67	CUYD		.00	
CONCRETE FOOTING DEMO	ISOLATED FTGS TYPE IV	2.67	CUYD		.00	
CONCRETE FOOTING DEMO	PEDESTAL	11.73	CUYD		.00	
CONCRETE FOOTING DEMO	PEDESTAL	6.67	CUYD		.00	
CONCRETE FOOTING DEMO	STEEL LADDER FTG	.28	CUYD		.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1260.37	CUYD		.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	8361.48	CUYD		.00	

Source: 7A PLANT 7 Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1291.11	CUYD		.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1014.44	CUYD		.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1721.48	CUYD		.00	
CONCRETE GRADE BEAM DEMO	INTEGRAL GR. BEAM PIERS	17.63	CUYD		.00	
CONCRETE PEDESTAL DEMO	INTEGRAL ISOL FTG PIERS	16.20	CUYD		.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	3.56	CUYD		.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	5481.00	7125.30	411.08
CONCRETE SLAB DEMO	CONCRETE SLABS	203.00	CUYD		.00	

000017

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	102.08	1704.76	25.01
COLUMN DEMO	TUBE STEEL FRAMING	.23 TONS			580.50	
EXT WALL FRMNG DEMO	W8 X 24 MEMBERS	9.20 TONS			580.50	
MISC. STEEL DEMO	MISC. ANGLES	1.78 TONS			580.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	13.80 TONS			580.50	
DOORS	DOORS	ABOVE GRADE	B	43.83	87.67	.88
EXT DOOR DEMO	EXT DOORS (MAN & OH)	263.00 SQFT			580.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	9.95	19.91	1.67
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	120.00	240.00	3.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	12.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	4.00	14.00	.10
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	4.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	22.25	44.50	2.51
PIPING DEMO	2" DIAMETER & LESS	849.83 LNFT			580.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	83.75	167.51	3.70
PIPING DEMO	OVER 4" DIAMETER	199.95 LNFT			580.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	11.00	22.00	.22
LOUVER DEMO	EXT LOUVERS	66.00 SQFT			580.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	15.37	30.74	3.80
METAL WALL PANEL DEMO	EXT. METAL PANELS	6900.00 SQFT			580.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	26.51	53.01	6.55
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	11900.00 SQFT			580.50	
CONCRETE	CONCRETE	BELOW GRADE	E	45.00	58.50	3.18
CONCRETE TRENCH DEMO	TRENCH GRATING	1.67 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1119.71	1455.62	83.98
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	14.69 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	17.45 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	10200.00	13260.00	765.00
CONCRETE SLAB DEMO	SLAB AT GRADE	377.78 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	18.07	72.29	.04
PIPING DEMO	INSULATION	216.87 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	73.60	88.32	.11
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	460.01 CUFT			.00	

Source: 80 PLANT 8 WAREHOUSE Component Category: 2

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	386.41	463.69	.58

Work Type	Item	Takeoff Quantity	Elevation (FT)
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	460.01 CUFT	.00

000513

Source: 81 PLANT 9 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	80.65	1346.91	19.76
COLUMN DEMO	TUBE STEEL FRAMING	.19 TONS			585.50	
EXT WALL FRMNG DEMO	W8 X 24 MEMBERS	7.20 TONS			585.50	
MISC. STEEL DEMO	MISC. ANGLES	1.57 TONS			585.50	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	10.80 TONS			585.50	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	262.50	4383.75	64.31
STEEL CURBING DEMO	STEEL GUARD RAIL	64.31 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	43.83	87.67	.88
EXT DOOR DEMO	EXT DOORS (MAN & OH)	263.00 SQFT			585.50	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	8.63	17.25	1.45
ELECTRICAL DEMO	2" DIAMETER & LESS	1318.18 LNFT			585.50	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	44.00	88.00	.28
ELECTRICAL DEMO	ELECTRICAL FIXTURES	22.00 EACH			585.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	100.00	200.00	2.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	10.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.07
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.08
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.78	1.56	.09
PIPING DEMO	2" DIAMETER & LESS	29.83 LNFT			585.50	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	89.93	179.87	6.44
PIPING DEMO	2-1/2" TO 4" DIAMETER	858.80 LNFT			585.50	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	62.81	125.62	2.77
PIPING DEMO	OVER 4" DIAMETER	149.95 LNFT			585.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	8.00	16.00	.16
LOUVER DEMO	EXT LOUVERS	48.00 SQFT			585.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	12.03	24.06	2.97
METAL WALL PANEL DEMO	EXT. METAL PANELS	5400.00 SQFT			585.50	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	20.05	40.10	4.95
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	9000.00 SQFT			585.50	
CONCRETE	CONCRETE	BELOW GRADE	E	27.00	35.10	2.03

Source: 81 PLANT 9 WAREHOUSE Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE TRENCH DEMO	TRENCH GRATING	1.00		CUYD	.00		
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE		E	996.92	1295.99	74.77
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.32		CUYD	.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.49		CUYD	.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	20.52		CUYD	.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.07		CUYD	.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	.52		CUYD	.00		
CONCRETE	CONCRETE SLABS	AT GRADE		E	8000.00	10400.00	600.00
CONCRETE SLAB DEMO	SLAB AT GRADE	296.30		CUYD	.00		
INSULATION	PIPING INSULATION	ABOVE GRADE		H	26.10	104.42	.06
PIPING DEMO	INSULATION	313.25		SQFT	.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	22.76	27.32	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27		CUFT	.00		
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	119.51	143.41	.18
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	142.27		CUFT	.00		

000521

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	122.45	2044.90	30.00
EXT WALL FRMNG DEMO	W8 X 24 MEMBERS	11.00 TONS			581.00	
MISC. STEEL DEMO	MISC. ANGLES	2.50 TONS			581.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	16.50 TONS			581.00	
DOORS	DOORS	ABOVE GRADE	B	152.50	305.00	3.05
EXT DOOR DEMO	EXT DOORS (MAN & OH)	915.00 SQFT			581.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	35.16	70.33	5.91
ELECTRICAL DEMO	2" DIAMETER & LESS	5372.73 LNFT			581.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	23.45	46.90	2.55
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	398.13 LNFT			581.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	120.00	240.00	.75
ELECTRICAL DEMO	ELECTRICAL FIXTURES	60.00 EACH			581.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	140.00	280.00	3.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	14.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	46.80	163.80	1.01
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	52.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	174.60	611.10	1.64
EQUIPMENT DEMO	HVAC EQUIPMENT	194.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.04
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	1.80	6.30	.02
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	28.27	56.53	3.19
PIPING DEMO	2" DIAMETER & LESS	1199.66 LNFT			581.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.26	.52	.03
LOW PRESSURE FIRE LINE DEMO	DW-2"	10.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	28.24	56.47	2.02
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			581.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	5.76	11.52	.41
SANITARY SEWER DEMO	SN-4"	55.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	18.85	37.70	.83
PIPING DEMO	OVER 4" DIAMETER	50.00 LNFT			581.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	5.20	18.20	.11
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	52.00 CUFT			.00	

Source: 82 RECEIVING/INCOMING MATERIALS INSPECTION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	19.40	67.90	.18
EQUIPMENT DEMO	HVAC EQUIPMENT	194.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	.20	.70	.00
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.20	.70	.00
EQUIPMENT DEMO	PROCESS EQUIPMENT	2.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	3.14	6.28	.35
PIPING DEMO	2" DIAMETER & LESS	1199.66 LNFT			581.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	3.14	6.27	.22
PIPING DEMO	2-1/2" TO 4" DIAMETER	299.60 LNFT			581.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	2.09	4.19	.09
PIPING DEMO	OVER 4" DIAMETER	50.00 LNFT			581.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	13.57	27.15	3.74
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2723.63 SQFT			581.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	6.67	13.33	.13
LOUVER DEMO	EXT LOUVERS	40.00 SQFT			581.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	15.15	30.29	3.74
METAL WALL PANEL DEMO	EXT. METAL PANELS	6800.00 SQFT			581.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	28.51	57.02	7.04
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	12800.00 SQFT			581.00	
CONCRETE	CONCRETE	BELOW GRADE	E	625.00	812.50	46.87
CONCRETE CURBING DEMO	CONCRETE CURBING	14.81 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH GRATING	8.33 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	1841.00	2393.30	138.07
CONCRETE GRADE BEAM DEMO	GRADE BEAM	65.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.85 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	8291.67	10779.17	621.88
CONCRETE SLAB DEMO	ENTRY RAMP	2.78 CUYD			.00	
CONCRETE SLAB DEMO	ENTRY RAMPS	3.70 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	246.91 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	53.70 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	2400.00	3120.00	66.00
MASONRY WALL DEMO	MASONRY WALLS	3600.00 SQFT			581.00	
PIPING	CLAY PIPING	BELOW GRADE	E	26.74	34.76	1.87
STORM SEWER DEMO	ST-4"	240.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	75.00 LNFT			.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	54.69	109.38	.66

000523

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CEILING DEMO	CEILING DEMO	875.00 SQFT			581.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	22.70	90.79	.05
HVAC DEMO	INSULATION	272.36 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	22.09	88.35	.05
PIPING DEMO	INSULATION	265.06 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	18.21	21.85	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	4.47	8.94	.15
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	275.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	45.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#4 GROUND	500.00 LNFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	323.50	647.00	4.85
MISC. MATERIAL DEMO	MISC. DEBRIS	323.50 CUFT			581.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	95.61	114.73	.14
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	113.82 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	8.00	16.00	.16
WINDOW DEMO	WINDOWS	48.00 SQFT			581.00	

Source: 89 PARKING LOT Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ASPHALT	ASPHALT	AT GRADE	E	261405.00	339826.50	10586.90
ASPHALT DEMO	GRID 15 PARKING LOT	6906.67 CUYD			.00	
ASPHALT DEMO	GRID 8 PARKING LOT	2775.00 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	236707.50	307719.75	17753.06
CONCRETE SLAB DEMO	GRID 15 PARKING LOT	4604.44 CUYD			.00	
CONCRETE SLAB DEMO	GRID 8 PARKING LOT	4162.50 CUYD			.00	

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Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2348.53	39220.39	575.39

Work Type	Item	Takeoff Quantity	Elevation (FT)
EXT WALL FRMNG DEMO	W12 X 58 MEMBERS	4.64 TONS	580.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	8.21 TONS	580.00
FLOOR FRAMING DEMO	C-CHANNEL FRAMING	49.59 TONS	580.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	3.94 TONS	580.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.27 TONS	580.00
FLOOR FRAMING DEMO	W12 X 36 MEMBERS	4.84 TONS	580.00
FLOOR FRAMING DEMO	W12 X 53 MEMBERS	13.91 TONS	580.00
FLOOR FRAMING DEMO	W14 X 78 MEMBERS	2.34 TONS	580.00
FLOOR FRAMING DEMO	W14 X 84 MEMBERS	1.43 TONS	580.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.23 TONS	600.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	6.00 TONS	600.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	.33 TONS	600.00
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	1.01 TONS	600.00
FLOOR FRAMING DEMO	W12 X 19 MEMBERS	8.36 TONS	600.00
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	.54 TONS	600.00
FLOOR FRAMING DEMO	W12 X 36 MEMBERS	6.01 TONS	600.00
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	3.72 TONS	600.00
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	38.72 TONS	600.00
FLOOR FRAMING DEMO	W16 X 50 MEMBERS	9.00 TONS	600.00
FLOOR FRAMING DEMO	W16 X 58 MEMBERS	1.74 TONS	600.00
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	2.00 TONS	600.00
FLOOR FRAMING DEMO	W21 X 112 MEMBERS	1.68 TONS	600.00
FLOOR FRAMING DEMO	W21 X 127 MEMBERS	1.91 TONS	600.00
FLOOR FRAMING DEMO	W21 X 73 MEMBERS	1.75 TONS	600.00
FLOOR FRAMING DEMO	W24 X 100 MEMBERS	2.16 TONS	600.00
FLOOR FRAMING DEMO	W24 X 120 MEMBERS	1.44 TONS	600.00
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	33.44 TONS	600.00
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	5.04 TONS	600.00
FLOOR FRAMING DEMO	W27 X 94 MEMBERS	1.13 TONS	600.00
FLOOR FRAMING DEMO	W30 X 108 MEMBERS	7.78 TONS	600.00
FLOOR FRAMING DEMO	W8 X 15 MEMBERS	2.34 TONS	600.00
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	1.36 TONS	600.00
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	7.01 TONS	600.00
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	2.52 TONS	600.00
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.96 TONS	600.00
FLOOR FRAMING DEMO	WT4 X 10 MEMBERS	.90 TONS	600.00
FLOOR FRAMING DEMO	WT4 X 5 MEMBERS	.63 TONS	600.00
FLOOR FRAMING DEMO	WT4 X 8 MEMBERS	1.26 TONS	600.00
FLOOR PLATING DEMO	HEAVY FLOOR PLATE	43.62 TONS	600.00
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	25.60 TONS	600.00
FLOOR PLATING DEMO	STEEL GRATING	3.00 TONS	600.00
MISC. STEEL DEMO	MISC ANGLE FRAMING	5.00 TONS	600.00
MISC. STEEL DEMO	MISC. ANGLES	1.50 TONS	600.00
STAIR FRAMING DEMO	STAIR FRAMING	10.00 TONS	600.00
STAIR FRAMING DEMO	STAIR FRAMING	3.00 TONS	600.00
COLUMN DEMO	W12 X 53 MEMBERS	67.73 TONS	616.50
COLUMN DEMO	W14 X 78 MEMBERS	4.48 TONS	616.50
COLUMN DEMO	W14 X 84 MEMBERS	10.50 TONS	616.50
COLUMN DEMO	W16 X 50 MEMBERS	1.20 TONS	616.50
COLUMN DEMO	W21 X 73 MEMBERS	8.76 TONS	616.50
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	11.26 TONS	616.50

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity		Elevation (FT)		
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.21 TONS		616.50		
FLOOR FRAMING DEMO	W10 X 39 MEMBERS	7.80 TONS		616.50		
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.50 TONS		616.50		
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	6.20 TONS		616.50		
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	.23 TONS		616.50		
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.29 TONS		616.50		
MISC. STEEL DEMO	C-CHANNEL FRAMING	3.26 TONS		616.50		
MISC. STEEL DEMO	C-CHANNEL FRAMING	2.34 TONS		616.50		
MISC. STEEL DEMO	MISC ANGLE FRAMING	3.53 TONS		616.50		
MISC. STEEL DEMO	MISC. ANGLES	3.93 TONS		616.50		
MISC. STEEL DEMO	MISC. ANGLES	1.50 TONS		616.50		
ROOF FRAMING DEMO	W10 X 15 MEMBERS	36.00 TONS		616.50		
ROOF FRAMING DEMO	W12 X 31 MEMBERS	2.48 TONS		616.50		
ROOF FRAMING DEMO	W14 X 30 MEMBERS	31.74 TONS		616.50		
ROOF FRAMING DEMO	W36 X 170 MEMBERS	13.60 TONS		616.50		
STAIR FRAMING DEMO	STAIR FRAMING	25.00 TONS		616.50		
DOORS	DOORS	ABOVE GRADE	B	233.83	467.67	4.68
EXT DOOR DEMO	EXT DOORS (MAN & OH)	141.00 SQFT		580.00		
EXT DOOR DEMO	EXT DOORS (MAN & OH)	242.00 SQFT		580.00		
EXT DOOR DEMO	EXT DOORS (MAN & OH)	1020.00 SQFT		616.50		
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	387.64	775.27	65.15
ELECTRICAL DEMO	2" DIAMETER & LESS	547.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	840.91 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	547.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1743.64 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1135.45 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	628.18 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1094.55 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	3334.55 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	4135.45 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1236.36 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1449.09 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1297.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	497.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2290.91 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2230.00 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2777.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	567.27 LNFT		580.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	395.45 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1877.27 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	435.45 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2220.00 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2452.73 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1601.82 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1783.64 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	202.73 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	1926.36 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	2452.73 LNFT		600.00		
ELECTRICAL DEMO	2" DIAMETER & LESS	3851.82 LNFT		600.00		

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL DEMO	2" DIAMETER & LESS	1155.45 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2452.73 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1641.82 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2584.55 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	932.73 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	486.36 LNFT			616.50	
ELECTRICAL DEMO	2" DIAMETER & LESS	507.27 LNFT			616.50	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	450.14	900.29	48.91
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	159.06 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	99.53 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	59.69 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	776.25 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	79.69 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	79.69 LNFT			580.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	616.88 LNFT			600.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	79.69 LNFT			600.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	358.13 LNFT			600.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	79.69 LNFT			600.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	477.50 LNFT			600.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	4776.09 LNFT			600.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1102.00	2204.00	6.89
ELECTRICAL DEMO	ELECTRICAL FIXTURES	24.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	70.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	25.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	13.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	77.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	12.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	63.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	4.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	71.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	58.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	75.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	28.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	21.00 EACH			616.50	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	490.00	980.00	12.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	49.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	3536.10	12376.35	21.15
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	3929.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	3212.10	11242.35	19.71
EQUIPMENT DEMO	HVAC EQUIPMENT	3569.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	3923.10	13730.85	27.27

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	4359.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	45456.30	159097.05	402.93
EQUIPMENT DEMO	PROCESS EQUIPMENT	50507.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1135.56	2271.13	127.96
PIPING DEMO	2" DIAMETER & LESS	48194.92 LNFT			580.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	2.75	5.50	.31
SANITARY SEWER DEMO	SN-5-2"A	105.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	1080.71	2161.41	77.40
PIPING DEMO	2-1/2" TO 4" DIAMETER	11466.67 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	2.62	5.24	.19
STORM SEWER DEMO	ST-4"N1	25.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	2566.08	5132.17	113.33
PIPING DEMO	OVER 4" DIAMETER	6806.76 LNFT			580.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	127.76	255.52	5.64
STORM SEWER DEMO	ST-6"N1	185.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	120.00 LNFT			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	392.90	1375.15	2.35
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	3929.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	356.90	1249.15	2.19
EQUIPMENT DEMO	HVAC EQUIPMENT	3569.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	435.90	1525.65	3.03
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	4359.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	5050.70	17677.45	44.77
EQUIPMENT DEMO	PROCESS EQUIPMENT	50507.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	126.17	252.35	14.22
PIPING DEMO	2" DIAMETER & LESS	48194.92 LNFT			580.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	5.76	11.52	.65
SUMP LIQUOR DEMO	SL-1-2"W	15.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-13-2"W	50.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-4-2"-L2	100.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-4-2"L3	50.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-8-2"W	2.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-9-2"W	3.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	120.08	240.16	8.60
PIPING DEMO	2-1/2" TO 4" DIAMETER	11466.67 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	285.12	570.24	12.59
PIPING DEMO	OVER 4" DIAMETER	6806.76 LNFT			580.00	

000529

Source: 8A RECOVERY PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	104.30	208.60	28.78
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2438.54 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	757.82 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	494.54 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1005.09 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	98.91 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	906.18 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	428.36 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	49.45 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1746.18 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	873.45 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1153.45 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	295.27 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	520.00 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	760.72 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1226.90 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	434.91 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	2103.99 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	2220.36 SQFT			616.50	
HVAC DEMO	DUCTWORK DEMO (ROUND)	3415.99 SQFT			616.50	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	3.80	7.61	1.35
LEAD FLASHING DEMO	LEAD FLASHING	800.00 LBS			580.00	
LEAD FLASHING DEMO	LEAD FLASHING	1200.00 LBS			616.50	
LEAD FLASHING DEMO	LEAD FLASHING	200.00 LBS			616.50	
LEAD FLASHING DEMO	LEAD FLASHING	500.00 LBS			616.50	
LOUVERS	LOUVERS	ABOVE GRADE	D	61.00	122.00	1.22
LOUVER DEMO	EXT LOUVERS	366.00 SQFT			616.50	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	5.84	11.69	1.44
METAL WALL PANEL DEMO	EXT. METAL PANELS	2624.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	6.24	12.47	1.54
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	2800.00 SQFT			580.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	1350.00	1755.00	101.25
FLOOR FRAMING DEMO	MISC. CONCRETE ITEMS	20.00 CUYD			580.00	
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	20.00 CUYD			600.00	
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	10.00 CUYD			600.00	
CONCRETE	CONCRETE	BELOW GRADE	E	2732.18	3551.83	204.91
CONCRETE CURBING DEMO	RAISED INTERIOR CURBING	1.63 CUYD			.00	
CONCRETE DEMO	11 MISCELL PADS (SIMILAR)	1.63 CUYD			.00	
CONCRETE SLAB DEMO	STRIP FOOTING LOADING PLATE	22.41 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	2.20 CUYD			.00	
CONCRETE SUMP DEMO	SLAB WITH SUMP	1.32 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH	30.00 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH 1	26.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH 2	3.33 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH 3	6.67 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH 4	5.33 CUYD			.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	24090.90	31318.17	1806.82

Work Type	Item	Takeoff Quantity	Elevation (FT)
CONCRETE EQUIPMENT FNDN DEMO	COLUMN FNDN.	2.66 CUYD	.00
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE COLUMNS	11.83 CUYD	.00
CONCRETE EQUIPMENT FNDN DEMO	MUFFLE FURNACE SLAB FNDN	4.63 CUYD	.00
CONCRETE EQUIPMENT FNDN DEMO	OLD FURNACE FNDN SLAB	4.81 CUYD	.00
CONCRETE FOOTING DEMO	EXISTING ABANDONED FOOTINGS	46.67 CUYD	.00
CONCRETE FOOTING DEMO	EXTERIOR FOOTINGS	112.50 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	16.67 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	.93 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	6.22 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	3.33 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	11.67 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	9.33 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	.87 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	1.01 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	28.89 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	1.06 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	.42 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	92.56 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	3.56 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS	1.48 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS A8 & A9	29.91 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS B8 & B7	29.91 CUYD	.00
CONCRETE FOOTING DEMO	FOOTINGS E13	1.81 CUYD	.00
CONCRETE FOOTING DEMO	INTERIOR FOOTINGS	90.00 CUYD	.00
CONCRETE FOOTING DEMO	STRIP FOOTINGS	.86 CUYD	.00
CONCRETE FOOTING DEMO	WALL FOOTINGS	10.33 CUYD	.00
CONCRETE FOOTING DEMO	WALL FOOTINGS	45.00 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM 13 TO 14/ A TO B	17.50 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM @ 13 6/12 LOADING PLATFORM	9.37 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM @13	4.15 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM @C	2.92 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM @D	2.92 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM @E	2.92 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM LOAD'G PLATFORM	29.56 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/CURBING	32.00 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	17.33 CUYD	.00
CONCRETE GRADE BEAM DEMO	GRADE BEAMS W/CURB	64.44 CUYD	.00
CONCRETE GRADE BEAM DEMO	SUMP PIT GRADE BEAMS	7.62 CUYD	.00
CONCRETE PEDESTAL DEMO	DRUM STATION PEDESTALS	.13 CUYD	.00
CONCRETE PEDESTAL DEMO	EQUIP. PEDESTALS	.22 CUYD	.00
CONCRETE PEDESTAL DEMO	FAN PEDESTAL	.10 CUYD	.00
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS W/PILASTER	1.78 CUYD	.00
CONCRETE PEDESTAL DEMO	INTEGRAL PILASTER/PICKS	10.07 CUYD	.00
CONCRETE PEDESTAL DEMO	INTERIOR COL PEDESTALS	6.22 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTAL (DETAIL A)	.91 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	1.48 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	26.96 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	31.11 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	20.74 CUYD	.00
CONCRETE PEDESTAL DEMO	PEDESTALS	8.33 CUYD	.00

Source: 8A RECOVERY PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE PEDESTAL DEMO	PEDESTALS	3.33 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	3.25 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.55 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	1.57 CUYD		.00		
CONCRETE PEDESTAL DEMO	PUMP PADS INTEGRAL PEDESTALS	4.62 CUYD		.00		
CONCRETE SLAB DEMO	ROTARY HOPPER FNDN. DECK	3.07 CUYD		.00		
CONCRETE SLAB DEMO	ROTARY HOPPER FNDN. SLAB	6.16 CUYD		.00		
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	5753.70	7479.81	431.53
CONCRETE SLAB DEMO	CONCRETE SLABS	8.50 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	16.10 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	7.60 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	14.20 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	70.20 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	31.30 CUYD		600.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	65.20 CUYD		616.50		
CONCRETE	CONCRETE SLABS	AT GRADE	E	12960.00	16848.00	972.00
CONCRETE SLAB DEMO	CONCRETE SLABS	10.19 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	8.49 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	5.95 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	27.06 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	5.95 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	38.95 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	4.25 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	26.21 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	25.36 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	240.36 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	2.55 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	17.84 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	10.19 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	56.66 CUYD		.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	451.59	587.07	33.87
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE COLUMN	1.49 CUYD		.00		
CONCRETE EQUIPMENT FNDN DEMO	CONCRETE COLUMN	4.55 CUYD		.00		
CONCRETE EQUIPMENT FNDN DEMO	FURNACE	1.06 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB	2.96 CUYD		.00		
CONCRETE SLAB DEMO	BOTTOM SLAB	.63 CUYD		.00		
CONCRETE SLAB DEMO	DRUM STATION SLAB	3.70 CUYD		.00		
CONCRETE SLAB DEMO	SUMP PIT BOTTOM SLAB	2.33 CUYD		.00		
CONCRETE	CONCRETE WALLS	BELOW GRADE	E	104.58	135.95	7.84
CONCRETE WALL DEMO	HOT WELLGRADE WALLS W/BRICK LINER	3.87 CUYD		.00		
TILE	FLOOR TILE	AT GRADE	G	40.83	49.00	1.96
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	1960.00 SQFT		.00		
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	1421.87	1706.25	79.95
EXT TRANSITE DEMO	EXT TRANSITE PANELS	39000.00 SQFT		580.00		
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	1239.58	1487.50	68.43
INT TRANSITE DEMO	INT TRANSITE PANELS	20500.00 SQFT		580.00		

Source: 8A RECOVERY PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
INT TRANSITE DEMO	INT TRANSITE PANELS	39000.00 SQFT			580.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	747.40	896.87	42.03
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	20500.00 SQFT			616.50	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	174.42	697.67	.39
HVAC DEMO	INSULATION	2093.01 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	1073.29	4293.17	2.41
PIPING DEMO	INSULATION	12879.52 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	160.86	193.03	.24
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1005.39 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	10800.00	12960.00	24.30
INSULATION DEMO	INSULATION (BAT)	20500.00 SQFT			580.00	
INSULATION DEMO	INSULATION (BAT)	39000.00 SQFT			580.00	
INSULATION DEMO	INSULATION (RIGID)	5300.00 SQFT			616.50	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	3370.00	6740.00	50.55
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			580.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	3000.00 CUFT			600.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00 CUFT			600.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	120.00 CUFT			616.50	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	844.53	1013.43	1.28
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1005.39 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	441.67	883.33	15.90
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	5300.00 SQFT			616.50	
WINDOWS	WINDOWS	ABOVE GRADE	I	1330.17	2660.33	26.60
WINDOW DEMO	WINDOWS	5434.00 SQFT			580.00	
WINDOW DEMO	WINDOWS	597.00 SQFT			580.00	
WINDOW DEMO	WINDOWS	1950.00 SQFT			616.50	

Source: 8B PLANT 8 MAINTENANCE BUILDING Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	33.73	563.37	8.27
EXT WALL FRMNG DEMO	MISC ANGLE FRAMING	1.00 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			580.00	
ROOF FRAMING DEMO	STEEL JOISTS DEMO	6.77 TONS			580.00	
DOORS	DOORS	ABOVE GRADE	B	40.00	80.00	.80
EXT DOOR DEMO	EXT DOORS (MAN & OH)	240.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	5.97	11.94	1.00
ELECTRICAL DEMO	2" DIAMETER & LESS	405.45 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	283.64 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	222.73 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	44.00	88.00	.28
ELECTRICAL DEMO	ELECTRICAL FIXTURES	22.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	8.24	16.49	.93
PIPING DEMO	2" DIAMETER & LESS	349.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	14.12	28.25	1.01
PIPING DEMO	2-1/2" TO 4" DIAMETER	149.87 LNFT			580.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.92	1.83	.10
PIPING DEMO	2" DIAMETER & LESS	349.83 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	1.57	3.14	.11
PIPING DEMO	2-1/2" TO 4" DIAMETER	149.87 LNFT			580.00	
CONCRETE	CONCRETE	BELOW GRADE	E	22.50	29.25	1.69
CONCRETE SUMP DEMO	SUMP WALLS	.83 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	697.00	906.10	52.27
CONCRETE FOOTING DEMO	STRIP FOOTING	12.59 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	13.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	1215.00	1579.50	91.13
CONCRETE SLAB DEMO	CONCRETE SLABS	45.00 CUYD			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	688.00	894.40	51.60
CONCRETE SLAB DEMO	SLAB AT GRADE	25.48 CUYD			.00	
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	1235.13	1605.67	33.97
MASONRY WALL DEMO	MASONRY WALLS	1852.70 SQFT			580.00	
CEILING DEMOLITION	CEILING DEMOLITION	ABOVE GRADE	G	117.25	234.50	1.41
CEILING DEMO	CEILING DEMO	1875.96 SQFT			580.00	
TILE	FLOOR TILE	AT GRADE	G	1.44	4.12	.17
FLOOR TILE DEMO	NON-ASBESTOS CONTAINING FLOOR TILE	165.00 SQFT			.00	

Source: 8B PLANT 8 MAINTENANCE BUILDING Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	7.03	28.11	.02
PIPING DEMO	INSULATION	84.34 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	53.11	63.74	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	331.97 CUFT			.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	200.00	400.00	3.00
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	278.85	334.62	.42
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	331.97 CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE	I	114.28	228.57	4.11
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	1371.42 SQFT			580.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	141.67	283.33	2.83
WINDOW DEMO	WINDOWS	850.00 SQFT			580.00	
WOOD	WOOD	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	WOOD FRAMING	50.00 CUFT			580.00	

000535

Source: 8C ROTARY KILN/DRUM RECONDITIONING Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	1557.41	26008.78	381.57
COLUMN DEMO	W12 X 40 MEMBERS	1.20 TONS			580.00	
COLUMN DEMO	W12 X 40 MEMBERS	11.60 TONS			580.00	
COLUMN DEMO	W14 X 119 MEMBERS	4.76 TONS			580.00	
COLUMN DEMO	W14 X 150 MEMBERS	7.95 TONS			580.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	21.33 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	14.40 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.17 TONS			580.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.50 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	1.50 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	1.60 TONS			580.00	
MISC. STEEL DEMO	MISC. ANGLES	.40 TONS			580.00	
MISC. STEEL DEMO	THRRADED RODS	.27 TONS			580.00	
ROOF FRAMING DEMO	W12 X 22 MEMBERS	.66 TONS			580.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	10.20 TONS			580.00	
ROOF FRAMING DEMO	W14 X 43 MEMBERS	1.72 TONS			580.00	
ROOF FRAMING DEMO	W16 X 36 MEMBERS	2.02 TONS			580.00	
ROOF FRAMING DEMO	W30 X 108 MEMBERS	12.96 TONS			580.00	
ROOF FRAMING DEMO	WT8 X 20 MEMBERS	7.61 TONS			580.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.80 TONS			580.00	
COLUMN DEMO	W12 X 40 MEMBERS	1.20 TONS			590.00	
COLUMN DEMO	W14 X 119 MEMBERS	4.76 TONS			590.00	
COLUMN DEMO	W14 X 150 MEMBERS	7.95 TONS			590.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.44 TONS			590.00	
FLOOR FRAMING DEMO	W12 X 22 MEMBERS	.35 TONS			590.00	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	5.40 TONS			590.00	
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	.80 TONS			590.00	
FLOOR FRAMING DEMO	W12 X 65 MEMBERS	.65 TONS			590.00	
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	2.20 TONS			590.00	
FLOOR FRAMING DEMO	W21 X 68 MEMBERS	.68 TONS			590.00	
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.10 TONS			590.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	7.89 TONS			590.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	2.08 TONS			590.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.80 TONS			590.00	
MISC. STEEL DEMO	MISC. ANGLES	.40 TONS			590.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.30 TONS			590.00	
COLUMN DEMO	W12 X 40 MEMBERS	1.44 TONS			600.00	
COLUMN DEMO	W14 X 119 MEMBERS	5.71 TONS			600.00	
COLUMN DEMO	W14 X 150 MEMBERS	9.54 TONS			600.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	.76 TONS			600.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	1.30 TONS			600.00	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	2.16 TONS			600.00	
FLOOR FRAMING DEMO	W14 X 61 MEMBERS	12.20 TONS			600.00	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	.17 TONS			600.00	
FLOOR FRAMING DEMO	W18 X 60 MEMBERS	2.40 TONS			600.00	
FLOOR FRAMING DEMO	W21 X 68 MEMBERS	1.36 TONS			600.00	
FLOOR FRAMING DEMO	W24 X 110 MEMBERS	2.08 TONS			600.00	
FLOOR FRAMING DEMO	W24 X 61 MEMBERS	2.48 TONS			600.00	
FLOOR FRAMING DEMO	W24 X 68 MEMBERS	3.40 TONS			600.00	
FLOOR FRAMING DEMO	W24 X 76 MEMBERS	7.60 TONS			600.00	
FLOOR FRAMING DEMO	W24 X 84 MEMBERS	4.62 TONS			600.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	.36 TONS			600.00	

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
FLOOR FRAMING DEMO	WT6 X 18 MEMBERS	1.32 TONS			600.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.18 TONS			600.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	3.50 TONS			600.00	
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	.30 TONS			600.00	
MISC. STEEL DEMO	THREADED RODS	.40 TONS			600.00	
STAIR FRAMING DEMO	STAIR FRAMING	1.80 TONS			600.00	
COLUMN DEMO	W12 X 40 MEMBERS	2.40 TONS			612.00	
COLUMN DEMO	W14 X 119 MEMBERS	9.60 TONS			612.00	
COLUMN DEMO	W14 X 150 MEMBERS	15.90 TONS			612.00	
FLOOR FRAMING DEMO	W10 X 21 MEMBERS	1.06 TONS			612.00	
FLOOR FRAMING DEMO	W12 X 22 MEMBERS	.35 TONS			612.00	
FLOOR FRAMING DEMO	W12 X 27 MEMBERS	8.74 TONS			612.00	
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	4.50 TONS			612.00	
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	.40 TONS			612.00	
FLOOR FRAMING DEMO	W14 X 43 MEMBERS	.82 TONS			612.00	
FLOOR FRAMING DEMO	W16 X 36 MEMBERS	1.44 TONS			612.00	
FLOOR FRAMING DEMO	W16 X 45 MEMBERS	.65 TONS			612.00	
FLOOR FRAMING DEMO	W16 X 50 MEMBERS	.50 TONS			612.00	
FLOOR FRAMING DEMO	W16 X 71 MEMBERS	8.04 TONS			612.00	
FLOOR FRAMING DEMO	W18 X 40 MEMBERS	.40 TONS			612.00	
FLOOR FRAMING DEMO	W18 X 50 MEMBERS	2.00 TONS			612.00	
FLOOR FRAMING DEMO	W18 X 55 MEMBERS	5.50 TONS			612.00	
FLOOR FRAMING DEMO	W24 X 55 MEMBERS	1.32 TONS			612.00	
FLOOR FRAMING DEMO	W8 X 17 MEMBERS	.43 TONS			612.00	
FLOOR FRAMING DEMO	W8 X 24 MEMBERS	1.44 TONS			612.00	
FLOOR FRAMING DEMO	WT6 X 11 MEMBERS	.92 TONS			612.00	
FLOOR PLATING DEMO	HEAVY FLOOR PLATE	61.20 TONS			612.00	
FLOOR PLATING DEMO	STEEL GRATING	2.00 TONS			612.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	.61 TONS			612.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	2.00 TONS			612.00	
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	.40 TONS			612.00	
MISC. STEEL DEMO	THREADED RODS	.50 TONS			612.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.00 TONS			612.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	10.20 TONS			632.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	1.10 TONS			632.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	.35 TONS			632.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	1.00 TONS			632.00	
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	1.50 TONS			632.00	
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	.70 TONS			632.00	
MISC. STEEL DEMO	MISC. ANGLES	.50 TONS			632.00	
MISC. STEEL DEMO	THREADED RODS	.16 TONS			632.00	
MISC. STEEL DEMO	THREADED RODS	.02 TONS			632.00	
ROOF FRAMING DEMO	W12 X 31 MEMBERS	5.34 TONS			632.00	
ROOF FRAMING DEMO	W12 X 40 MEMBERS	.40 TONS			632.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS	3.99 TONS			632.00	
ROOF FRAMING DEMO	W14 X 34 MEMBERS	1.36 TONS			632.00	
ROOF FRAMING DEMO	W14 X 43 MEMBERS	5.16 TONS			632.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	1.35 TONS			632.00	
ROOF FRAMING DEMO	W8 X 17 MEMBERS	.09 TONS			632.00	
ROOF FRAMING DEMO	WT4 X 5 MEMBERS	.18 TONS			632.00	
ROOF FRAMING DEMO	WT6 X 18 MEMBERS	2.80 TONS			632.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.50 TONS			632.00	

Source: 8C ROTARY KILN/DRUM RECONDITIONING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
DOORS	DOORS	ABOVE GRADE	B	73.33	146.67	1.47
EXT DOOR DEMO	EXT DOORS (MAN & OH)	440.00 SQFT			612.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	46.71	93.41	7.85
ELECTRICAL DEMO	2" DIAMETER & LESS	1702.73 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1520.91 LNFT			580.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	364.55 LNFT			600.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	710.00 LNFT			612.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1621.82 LNFT			612.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	182.00	364.00	1.14
ELECTRICAL DEMO	ELECTRICAL FIXTURES	33.00 EACH			580.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	29.00 EACH			600.00	
ELECTRICAL DEMO	ELECTRICAL FIXTURES	29.00 EACH			612.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	290.00	580.00	7.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	29.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	2129.40	7452.90	12.78
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2366.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1935.00	6772.50	11.88
EQUIPMENT DEMO	HVAC EQUIPMENT	2150.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2362.50	8268.75	16.47
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2625.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	27381.60	95835.60	242.73
EQUIPMENT DEMO	PROCESS EQUIPMENT	30424.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	27.95	55.91	3.15
PIPING DEMO	2" DIAMETER & LESS	392.88 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	348.81 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	327.80 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	116.95 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	236.60	828.10	1.42
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	2366.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	215.00	752.50	1.32
EQUIPMENT DEMO	HVAC EQUIPMENT	2150.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	262.50	918.75	1.83
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	2625.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	3042.40	10648.40	26.97
EQUIPMENT DEMO	PROCESS EQUIPMENT	30424.00 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	Cat	FS Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	3.11	6.21	.35
PIPING DEMO	2" DIAMETER & LESS	392.88 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	348.81 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	327.80 LNFT			580.00	
PIPING DEMO	2" DIAMETER & LESS	116.95 LNFT			580.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	32.62	65.24	9.00
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1454.54 SQFT			612.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	5090.89 SQFT			612.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	53.33	106.67	1.07
LOUVER DEMO	EXT LOUVERS	320.00 SQFT			612.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	35.19	70.39	8.69
METAL WALL PANEL DEMO	EXT. METAL PANELS	15800.00 SQFT			580.00	
METAL PANELS	INTERIOR METAL WALL PANELS	ABOVE GRADE	D	35.19	70.39	8.69
METAL WALL PANEL DEMO	INT. METAL PANELS	15800.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	32.97	65.93	8.14
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	10000.00 SQFT			580.00	
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	4800.00 SQFT			632.00	
CONCRETE	CONCRETE	BELOW GRADE	E	6132.60	7972.38	459.95
CONCRETE CURBING DEMO	INTEGRAL CURBING	.56 CUYD			.00	
CONCRETE DEMO	(ROTARY KILN)C-SHAPED FTG PEDESTALS	42.67 CUYD			.00	
CONCRETE SUMP DEMO	PIT SLAB	.50 CUYD			.00	
CONCRETE SUMP DEMO	PIT SLAB	38.89 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	3.53 CUYD			.00	
CONCRETE SUMP DEMO	PIT WALLS	79.33 CUYD			.00	
CONCRETE SUMP DEMO	TRENCH SUMP SLAB	.67 CUYD			.00	
CONCRETE SUMP DEMO	TRENCH SUMP WALLS	1.19 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH WALLS	4.74 CUYD			.00	
CONCRETE TRENCH DEMO	FLR TRENCH FTG SLAB	3.56 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH SUMP FLOOR	43.56 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH SUMP SLAB	2.59 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH SUMP WALLS	.18 CUYD			.00	
CONCRETE TRENCH DEMO	TRENCH WALLS	5.19 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	9102.40	11833.12	682.68
CONCRETE EQUIPMENT FNDN DEMO	CAROSEL FNDN	6.00 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	DRUM COMPACTOR FNDN	8.15 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PRODUCT COOLER FNDN.	.15 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	5.33 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	3.63 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	27.22 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	14.00 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (1)	30.00 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (2)	22.22 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (3)	17.78 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (4)	26.89 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (5)	24.89 CUYD			.00	

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Source: 8C ROTARY KILN/DRUM RECONDITIONING Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (6)	5.56 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS (7)	1.78 CUYD			.00	
CONCRETE FOOTING DEMO	L SHAPE ISOLATED FOOTING	32.36 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	7.41 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.96 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	12.96 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.56 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.22 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.44 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	9.33 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.22 CUYD			.00	
CONCRETE GRADE BEAM DEMO	STAIRWELL GRADE BEAM	4.41 CUYD			.00	
CONCRETE GRADE BEAM DEMO	STAIRWELL GRADE BEAM	2.59 CUYD			.00	
CONCRETE PEDESTAL DEMO	(ROTARY KILN) PTG PEDESTALS	14.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	7.78 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	5.29 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	2.33 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	12.44 CUYD			.00	
CONCRETE	CONCRETE SLABS	ABOVE GRADE	E	3799.98	4939.97	285.00
CONCRETE SLAB DEMO	CONCRETE SLABS	140.74 CUYD			600.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	10213.30	13277.29	766.00
CONCRETE SLAB DEMO	SLAB AT GRADE	62.22 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	145.19 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	23.33 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (MAIN FLR.)	129.63 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (MECHANICAL ROOM)	7.49 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (RAMP)	1.85 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (STAIRS)	8.56 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	54.55	218.18	.12
HVAC DEMO	INSULATION	654.54 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	13.05	52.21	.03
PIPING DEMO	INSULATION	156.63 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	64.50	77.40	.10
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	403.10 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	4600.00	5520.00	10.35
INSULATION DEMO	INSULATION (BAT)	22800.00 SQFT			580.00	
INSULATION DEMO	INSULATION (BAT)	4800.00 SQFT			632.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	1800.00	3600.00	27.00
MISC. MATERIAL DEMO	MISC. DEBRIS	1800.00 CUFT			580.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	338.61	406.33	.51
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	403.10 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	78.33	156.67	1.57
WINDOW DEMO	WINDOWS	470.00 SQFT			612.00	

Source: 8C ROTARY KILN/DRUM RECONDITIONING Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	4.08	68.16	1.00
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			580.00	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	325.00	5427.50	79.63
SHEET METAL PILING DEMO	SHEET METAL PILING SOUTH BUILDING	6.13 TONS			.00	
STEEL RAIL DEMO	STEEL RAILS	73.50 TONS			.00	
DOORS	DOORS	ABOVE GRADE	B	3.50	7.00	.07
EXT DOOR DEMO	EXT DOORS (MAN & OH)	21.00 SQFT			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.40	.80	.07
ELECTRICAL DEMO	2" DIAMETER & LESS	60.91 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	.90	3.15	.04
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	7.20	25.20	.12
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	5.40	18.90	.16
EQUIPMENT DEMO	PROCESS EQUIPMENT	6.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	1.46	2.92	.16
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	11.11	22.22	.80
PIPING DEMO	2-1/2" TO 4" DIAMETER	117.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	9.41	18.83	.42
PIPING DEMO	OVER 4" DIAMETER	24.97 LNFT			580.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	.10	.35	.00
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	.80	2.80	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	.60	2.10	.02
EQUIPMENT DEMO	PROCESS EQUIPMENT	6.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.16	.32	.02
PIPING DEMO	2" DIAMETER & LESS	62.03 LNFT			580.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	1.23	2.47	.09
PIPING DEMO	2-1/2" TO 4" DIAMETER	117.87 LNFT			580.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	1.05	2.09	.05
PIPING DEMO	OVER 4" DIAMETER	24.97 LNFT			580.00	

Source: 8D PLANT 8 RAILROAD FILTER BUILDING Component Category: 4

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	.80	1.60	.20
METAL WALL PANEL DEMO	EXT. METAL PANELS	360.00 SQFT			580.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.22	.45	.06
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	100.00 SQFT			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	2052.68	2668.48	153.95
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.44 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	27.78 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	4.80 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	13.53 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.85 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.85 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	17.78 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	5526.00	7183.80	414.45
CONCRETE SLAB DEMO	SLAB AT GRADE WITH CURB	24.44 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE WITH CURB	32.22 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE WITH CURB	46.67 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE WITH CURB	101.33 CUYD			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	4.02	16.06	.01
PIPING DEMO	INSULATION	48.19 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	9.11	10.93	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	47.80	57.36	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	

Source: 8E DRUM CONVEYOR SHELTER Component Category: 9

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE		A	23.87	398.69	5.85
COLUMN DEMO	W12 X 26 MEMBERS		.73 TONS			580.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING		1.96 TONS			580.00	
ROOF FRAMING DEMO	W14 X 30 MEMBERS		1.80 TONS			580.00	
ROOF FRAMING DEMO	W16 X 36 MEMBERS		.50 TONS			580.00	
ROOF FRAMING DEMO	WT8 X 20 MEMBERS		.86 TONS			580.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE		B	2.82	5.64	.47
ELECTRICAL DEMO	2" DIAMETER & LESS		430.91 LNFT			580.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE		B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES		3.00 EACH			580.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE		B	20.00	40.00	.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS		2.00 EACH			.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE		D	3.03	6.06	.75
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)		1360.00 SQFT			580.00	
CONCRETE	CONCRETE SLABS	AT GRADE		E	200.00	260.00	15.00
CONCRETE SLAB DEMO	SLAB AT GRADE		7.41 CUYD			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	9.11	10.93	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		56.91 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	47.80	57.36	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT		56.91 CUFT			.00	

Source: 8F PLANT 8 OLD DRUM WASHER Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	2.42	4.84	.67
HVAC DEMO	DUCTWORK DEMO (ROUND)	485.82 SQFT			580.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	4.05	16.19	.01
HVAC DEMO	INSULATION	48.58 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	6.07	7.28	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	31.87	38.24	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	

Source: 9A SPECIAL PRODUCTS PLANT Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2010.14	33569.39	492.49

Work Type	Item	Takeoff Quantity	Elevation (FT)
COLUMN DEMO	W10 X 33 MEMBERS	.36 TONS	583.00
COLUMN DEMO	W10 X 39 MEMBERS	3.00 TONS	583.00
COLUMN DEMO	W10 X 45 MEMBERS	2.97 TONS	583.00
COLUMN DEMO	W10 X 54 MEMBERS	14.62 TONS	583.00
COLUMN DEMO	W10 X 54 MEMBERS	2.38 TONS	583.00
COLUMN DEMO	W10 X 60 MEMBERS	1.32 TONS	583.00
COLUMN DEMO	W10 X 66 MEMBERS	.73 TONS	583.00
COLUMN DEMO	W10 X 89 MEMBERS	3.92 TONS	583.00
COLUMN DEMO	W12 X 53 MEMBERS	12.87 TONS	583.00
COLUMN DEMO	W8 X 24 MEMBERS	3.36 TONS	583.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	8.00 TONS	583.00
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	46.07 TONS	583.00
FLOOR FRAMING DEMO	W10 X 29 MEMBERS	1.16 TONS	583.00
FLOOR FRAMING DEMO	W12 X 31 MEMBERS	6.20 TONS	583.00
FLOOR FRAMING DEMO	W8 X 10 MEMBERS	.80 TONS	583.00
FLOOR FRAMING DEMO	W8 X 13 MEMBERS	.26 TONS	583.00
FLOOR FRAMING DEMO	WT6 X 11 MEMBERS	.08 TONS	583.00
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	.25 TONS	583.00
FLOOR PLATING DEMO	LIGHT FLOOR PLATE	5.20 TONS	583.00
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	10.00 TONS	583.00
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	5.00 TONS	583.00
FLOOR PLATING DEMO	STEEL GRATING	.66 TONS	583.00
FLOOR PLATING DEMO	STEEL GRATING	.28 TONS	583.00
MISC. STEEL DEMO	C-CHANNEL FRAMING	.32 TONS	583.00
MISC. STEEL DEMO	C-CHANNEL FRAMING	.39 TONS	583.00
MISC. STEEL DEMO	C-CHANNEL FRAMING	5.00 TONS	583.00
MISC. STEEL DEMO	MISC ANGLE FRAMING	41.89 TONS	583.00
MISC. STEEL DEMO	MISC ANGLE FRAMING	.16 TONS	583.00
MISC. STEEL DEMO	MISC ANGLE FRAMING	15.56 TONS	583.00
MISC. STEEL DEMO	MISC STEEL	2.13 TONS	583.00
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	2.00 TONS	583.00
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	1.00 TONS	583.00
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	11.00 TONS	583.00
MISC. STEEL DEMO	MISC STEEL (HANGERS ETC)	6.00 TONS	583.00
MISC. STEEL DEMO	MISC. ANGLES	6.42 TONS	583.00
MISC. STEEL DEMO	MISC. ANGLES	2.95 TONS	583.00
MISC. STEEL DEMO	MISC. ANGLES	2.00 TONS	583.00
MISC. STEEL DEMO	MISC. ANGLES	.38 TONS	583.00
MISC. STEEL DEMO	MISC. ANGLES	20.03 TONS	583.00
MISC. STEEL DEMO	STEEL HANDRAILS	.60 TONS	583.00
MISC. STEEL DEMO	STEEL HANDRAILS	.26 TONS	583.00
MISC. STEEL DEMO	THREADED RODS	.12 TONS	583.00
MISC. STEEL DEMO	THREADED RODS	.04 TONS	583.00
ROOF FRAMING DEMO	C-CHANNEL FRAMING	42.25 TONS	583.00
ROOF FRAMING DEMO	C-CHANNEL FRAMING	50.54 TONS	583.00
ROOF FRAMING DEMO	STEEL JOISTS DEMO	40.70 TONS	583.00
ROOF FRAMING DEMO	W10 X 21 MEMBERS	.53 TONS	583.00
ROOF FRAMING DEMO	W12 X 27 MEMBERS	1.35 TONS	583.00
ROOF FRAMING DEMO	W12 X 36 MEMBERS	.36 TONS	583.00
ROOF FRAMING DEMO	W12 X 45 MEMBERS	2.70 TONS	583.00
ROOF FRAMING DEMO	W12 X 50 MEMBERS	27.50 TONS	583.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ROOF FRAMING DEMO	W12 X 50 MEMBERS	3.00 TONS			583.00	
ROOF FRAMING DEMO	W12 X 58 MEMBERS	32.37 TONS			583.00	
ROOF FRAMING DEMO	W12 X 58 MEMBERS	2.90 TONS			583.00	
ROOF FRAMING DEMO	W12 X 72 MEMBERS	2.13 TONS			583.00	
ROOF FRAMING DEMO	W12 X 92 MEMBERS	2.76 TONS			583.00	
ROOF FRAMING DEMO	W12 X 99 MEMBERS	2.88 TONS			583.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	4.80 TONS			583.00	
ROOF FRAMING DEMO	WT6 X 11 MEMBERS	.92 TONS			583.00	
ROOF FRAMING DEMO	WT8 X 18 MEMBERS	1.90 TONS			583.00	
ROOF FRAMING DEMO	WT8 X 20 MEMBERS	2.58 TONS			583.00	
FLOOR FRAMING DEMO	W10 X 33 MEMBERS	5.94 TONS			594.00	
FLOOR FRAMING DEMO	W12 X 40 MEMBERS	4.00 TONS			594.00	
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	7.20 TONS			594.00	
MISC. STEEL DEMO	MISC STEEL	1.50 TONS			594.00	
MISC. STEEL DEMO	MISC. ANGLES	.74 TONS			594.00	
MISC. STEEL DEMO	STEEL HANDRAILS	1.20 TONS			594.00	
STAIR FRAMING DEMO	STAIR FRAMING	2.00 TONS			594.00	
DOORS	DOORS	ABOVE GRADE	B	250.92	501.83	5.02
EXT DOOR DEMO	EXT DOORS (MAN & OH)	383.50 SQFT			583.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	291.00 SQFT			583.00	
EXT DOOR DEMO	EXT DOORS (MAN & OH)	831.00 SQFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	304.25	608.50	51.13
ELECTRICAL DEMO	2" DIAMETER & LESS	6497.27 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1257.27 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	810.91 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	851.82 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	588.18 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	628.18 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	324.55 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2513.64 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	501.82 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1692.73 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2129.09 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2432.73 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3243.64 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2797.27 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	385.45 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1194.55 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1560.91 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2230.00 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2129.09 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1844.55 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	790.91 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	567.27 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	3345.45 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	2940.00 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	430.91 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	466.36 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1115.45 LNFT			583.00	

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Source: 9A SPECIAL PRODUCTS PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	389.77	779.55	42.35
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	477.50 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	278.59 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	288.59 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	119.53 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	119.53 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	258.59 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	278.59 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	198.91 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	1990.16 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	2189.06 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	338.28 LNFT		583.00		
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	79.69 LNFT		583.00		
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	1013.00	2026.00	6.33
ELECTRICAL DEMO	ELECTRICAL FIXTURES	199.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	10.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	180.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	22.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	.50 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	9.00 EACH		583.00		
ELECTRICAL DEMO	ELECTRICAL FIXTURES	80.00 EACH		583.00		
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	80.00	160.00	2.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	4.00 EACH		.00		
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	600.00	1200.00	15.00
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	60.00 EACH		.00		
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1709.10	5981.85	22.14
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1899.00 CUFT		.00		
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	1905.30	6668.55	11.07
EQUIPMENT DEMO	HVAC EQUIPMENT	2117.00 CUFT		.00		
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	2704.50	9465.75	15.21
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3005.00 CUFT		.00		
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	54186.30	189652.05	938.70
EQUIPMENT DEMO	PROCESS EQUIPMENT	60207.00 CUFT		.00		
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	190.40	380.79	21.45
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	111.19 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	9.83 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	788.81 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	414.92 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	311.19 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	182.71 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	937.63 LNFT		583.00		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	616.95	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	154.24	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	27.12	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	297.97	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	168.14	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	198.64	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	34.92	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	235.93	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	261.02	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	252.88	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	45.08	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	43.73	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	157.97	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	34.92	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	129.15	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	229.83	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	54.24	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	592.54	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	86.78	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	90.17	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	266.78	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	232.88	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	232.88	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	225.76	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	471.86	LNFT		583.00	
PIPING DEMO	2" DIAMETER & LESS	27.12	LNFT		583.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	.52	1.05	.06
STORM SEWER DEMO	ST-2"M2	20.00	LNFT		.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	273.62	547.24	19.60
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	87.87	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	55.87	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	320.53	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	82.93	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	71.87	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	81.87	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	168.80	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	829.87	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00	LNFT		583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	529.33	LNFT		583.00	

Source: 9A SPECIAL PRODUCTS PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT		583.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT		583.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.00 LNFT		583.00		
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.00 LNFT		583.00		
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	65.45	130.90	4.69
PIPING DEMO	3" A.R.C.I.	210.00 LNFT		.00		
PIPING DEMO	4" A.R.C.I.	310.00 LNFT		.00		
SANITARY SEWER DEMO	SN-4"	105.00 LNFT		.00		
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	376.58	753.17	16.63
PIPING DEMO	OVER 4" DIAMETER	92.97 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	68.97 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	134.97 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	112.97 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	96.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	48.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	12.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	14.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	56.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	64.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	12.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	11.03 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	20.97 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	94.00 LNFT		583.00		
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT		583.00		
PIPING	PIPING (OVER 4")	BELOW GRADE	B	203.16	406.31	8.97
SANITARY SEWER DEMO	SN-6"	145.00 LNFT		.00		
STORM SEWER DEMO	ST-6"CI	80.00 LNFT		.00		
STORM SEWER DEMO	ST-6"M2	60.00 LNFT		.00		
STORM SEWER DEMO	ST-8"M2	200.00 LNFT		.00		
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	189.90	664.65	2.46
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1899.00 CUFT		.00		
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	211.70	740.95	1.23
EQUIPMENT DEMO	HVAC EQUIPMENT	2117.00 CUFT		.00		
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	300.50	1051.75	1.69
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	3005.00 CUFT		.00		
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	6020.70	21072.45	104.10
EQUIPMENT DEMO	PROCESS EQUIPMENT	60207.00 CUFT		.00		
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	21.16	42.31	2.38
PIPING DEMO	2" DIAMETER & LESS	88.81 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	6.10 LNFT		583.00		
PIPING DEMO	2" DIAMETER & LESS	111.19 LNFT		583.00		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
PIPING DEMO	2" DIAMETER & LESS	9.83	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	788.81	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	414.92	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	311.19	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	182.71	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	937.63	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	616.95	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	154.24	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	27.12	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	297.97	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	168.14	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	198.64	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	34.92	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	235.93	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	261.02	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	252.88	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	60.00	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	45.08	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	43.73	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	157.97	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	34.92	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	129.15	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	229.83	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	54.24	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	592.54	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	86.78	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	90.17	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	266.78	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	232.88	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	232.88	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	225.76	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	471.86	LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	27.12	LNFT			583.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE		C	3.01	6.02	.34
COOLING WATER RETURN DEMO	WR-110-2"W	40.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-636-2"W	25.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-901-2"W	50.00	LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE		C	30.40	60.80	2.18
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	148.80	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	26.00	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	87.87	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.93	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	55.87	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	320.53	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	82.93	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	71.87	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	81.87	LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	20.00	LNFT			583.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING DEMO	2-1/2" TO 4" DIAMETER	168.80 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	239.73 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	14.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	10.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	829.87 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	28.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	529.33 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	44.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	99.87 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.00 LNFT			583.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2.00 LNFT			583.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	39.79	79.59	2.85
COOLING WATER RETURN DEMO	WR-637-3"W	10.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-20-4"L1	5.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-21-4"L1	5.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-23-4"L1	30.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-26-4"L1	35.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-27-4"L1	15.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-28-4"L1	35.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-29-4"L1	15.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-3"L1	55.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-38-4"L1	65.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-40-4"L1	30.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-52-4"L1	50.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-54-4"L1	5.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-X-4"L1	25.00 LNFT			.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	41.84	83.69	1.85
PIPING DEMO	OVER 4" DIAMETER	92.97 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	68.97 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	134.97 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	112.97 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	10.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	96.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	48.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	12.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	14.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	62.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	56.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	64.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	12.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	11.03 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	20.97 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	42.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	94.00 LNFT			583.00	
PIPING DEMO	OVER 4" DIAMETER	5.03 LNFT			583.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	73.30	146.61	3.24
COOLING WATER RETURN DEMO	WR-643-6"W	20.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-30-6"L1	55.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
SUMP LIQUOR DEMO	SL-31-6"L1	40.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-32-6"L1	45.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-33-6"W	5.00	LNFT		.00	
SUMP LIQUOR DEMO	SL-53-6"L1	10.00	LNFT		.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	366.26	732.51	101.06
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	8406.51	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	13461.04	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	5738.89	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	31.27	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	2506.17	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1310.54	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (RECTANGULAR)	1454.54	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1353.45	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	605.09	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	288.73	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	283.64	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	120.73	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	757.82	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1506.90	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	720.00	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	38.55	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	50.18	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	461.82	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	42.18	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	276.36	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	338.91	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	189.82	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	64.73	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	54.55	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	189.09	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	2845.81	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1138.90	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	26791.17	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	285.82	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	1328.72	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	282.91	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	90.91	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	90.91	SQFT		583.00	
HVAC DEMO	DUCTWORK DEMO (ROUND)	389.82	SQFT		583.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	2.82	5.63	1.00
LEAD FLASHING DEMO	LEAD FLASHING	1000.00	LBS		583.00	
LEAD FLASHING DEMO	LEAD FLASHING	1000.00	LBS		583.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	69.83	139.67	1.40
LOUVER DEMO	EXT LOUVERS	75.00	SQFT		583.00	
LOUVER DEMO	EXT LOUVERS	224.00	SQFT		583.00	
LOUVER DEMO	EXT LOUVERS	120.00	SQFT		583.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	1.34	2.67	.33
METAL WALL PANEL DEMO	EXT. METAL PANELS	600.00	SQFT		583.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.89	1.78	.22
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	400.00 SQFT			583.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1441.96	1874.54	108.15
CONCRETE CURBING DEMO	CURBING	1.48 CUYD			.00	
CONCRETE SUMP DEMO	HEAT TREAT FURNACE PIT	2.10 CUYD			.00	
CONCRETE SUMP DEMO	ROUND COOLING WATER SUMP	1.56 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT @A1 WALLS	1.33 CUYD			.00	
CONCRETE SUMP DEMO	SUMP SLAB	.44 CUYD			.00	
CONCRETE SUMP DEMO	SUMP SLAB	.46 CUYD			.00	
CONCRETE SUMP DEMO	SUMP SLAB	.78 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	.89 CUYD			.00	
CONCRETE SUMP DEMO	SUMP WALLS	1.48 CUYD			.00	
CONCRETE SUMP DEMO	VACUUM OIL SUMP FLOOR	.30 CUYD			.00	
CONCRETE SUMP DEMO	VACUUM OIL SUMP WALLS	1.48 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH W/GRAT'G	6.94 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH W/GRAT'G	12.96 CUYD			.00	
CONCRETE TRENCH DEMO	FLOOR TRENCH W/GRAT'G	2.10 CUYD			.00	
CONCRETE TRENCH DEMO	FNDNS & TRENCH @11A	11.85 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'4"X1'4"	7.24 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	12710.17	16523.23	953.26
CONCRETE CURBING DEMO	CURBING	1.56 CUYD			.00	
CONCRETE CURBING DEMO	CURBING	.74 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	BILLET SAW FNDN	2.07 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FND/PAD	.27 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDN	1.26 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDN 1	6.52 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP FNDN 2	9.48 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	EQUIP PADS	1.17 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	FURNACE FNDN	9.11 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MG SET FNDN	15.00 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC EQUIP FNDNS	1.33 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC EQUIP FNDNS	6.67 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC EQUIP FNDNS	8.89 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	MISC FNDN	2.96 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	PUMP FNDN	1.78 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	RAISED EQUIP PADS	1.50 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	RAISED EQUIP PADS	1.19 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FNDN	.46 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	VACUUM PUMP FNDN	1.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	8.47 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	12.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	3.00 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	9.26 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS	71.11 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (BILLET DUST COLLECTOR)	3.70 CUYD			.00	
CONCRETE FOOTING DEMO	FOOTINGS (HEPA FILTER PLATFORM)	13.89 CUYD			.00	
CONCRETE FOOTING DEMO	FURNACE FNDN WALLS	12.22 CUYD			.00	
CONCRETE FOOTING DEMO	FURNACE FNDN WALLS	2.04 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	2.67 CUYD			.00	
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	33.33 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Debulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
CONCRETE FOOTING DEMO	ISOLATED FOOTINGS	16.00 CUYD		.00		
CONCRETE GRADE BEAM DEMO	CORNER GRADE BEAM	.49 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	.78 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.00 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM	.52 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 1	41.90 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 2	17.01 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM 3	19.91 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	14.81 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	8.37 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	9.11 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	7.41 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	2.96 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/FTG	1.04 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAMS	1.30 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE BEAMS (PIPE TRENCH WITH GRATING)	1.00 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE WALL W/STRIP FOOTINGS	37.87 CUYD		.00		
CONCRETE GRADE BEAM DEMO	GRADE WALL W/STRIP FOOTINGS	26.67 CUYD		.00		
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	3.21 CUYD		.00		
CONCRETE PEDESTAL DEMO	INTEGRAL PILASTER	.27 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.07 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	5.56 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.78 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.07 CUYD		.00		
CONCRETE PEDESTAL DEMO	PEDESTALS	2.00 CUYD		.00		
CONCRETE	CONCRETE SLABS	AT GRADE	E	37800.00	49140.00	2835.00
CONCRETE SLAB DEMO	CONCRETE SLABS	217.20 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	378.34 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	59.27 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	228.68 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	74.83 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	151.76 CUYD		.00		
CONCRETE SLAB DEMO	CONCRETE SLABS	289.93 CUYD		.00		
CONCRETE	CONCRETE SLABS	BELOW GRADE	E	900.00	1170.00	67.50
CONCRETE SLAB DEMO	FURNACE FNDN SLAB	33.33 CUYD		.00		
CONCRETE	MASONRY WALLS	ABOVE GRADE	E	233.33	303.33	6.42
MASONRY WALL DEMO	MASONRY WALLS	350.00 SQFT			583.00	
PIPING	CLAY PIPING	BELOW GRADE	E	2.55	3.31	.18
PIPING DEMO	UNIDENTIFIED	30.00 LNFT		.00		
CONCRETE	ACID BRICK	AT GRADE	F	1650.67	2145.87	115.55
ACID BRICK DEMO	ACID BRICK	640.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK AREA	12.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK AREA	300.00 SQFT		.00		
ACID BRICK DEMO	ACID BRICK FLOOR	4000.00 SQFT		.00		
TILE	FLOOR TILE	AT GRADE	G	14.83	17.80	.71
FLOOR TILE DEMO	ASBESTOS CONTAINING FLOOR TILE	712.00 SQFT		.00		

000555

Source: 9A SPECIAL PRODUCTS PLANT Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE		G	747.40	896.87	42.03
EXT TRANSITE DEMO	EXT TRANSITE PANELS	20500.00	SQFT			583.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE		G	1452.10	1742.51	80.16
INT TRANSITE DEMO	INT TRANSITE PANELS	13081.50	SQFT			583.00	
INT TRANSITE DEMO	INT TRANSITE PANELS	27058.07	SQFT			583.00	
INT TRANSITE DEMO	INT TRANSITE PANELS	29561.00	SQFT			583.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE		G	1400.00	1680.00	78.72
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	38400.00	SQFT			583.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE		H	612.47	2449.88	1.38
HVAC DEMO	INSULATION	7349.65	SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE		H	194.78	779.12	.44
PIPING DEMO	INSULATION	2337.35	SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		H	203.35	244.02	.31
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1270.96	CUFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE		I	15.05	30.11	.49
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	95.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	460.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	315.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	400.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	165.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	2.5" ELECTRICAL CONDUIT	210.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	240.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	3.5" ELECTRICAL CONDUIT	90.00	LNFT			.00	
ELECTRICAL CONDUIT DEMO	UNIDENTIFIED ELECTRICAL CONDUIT	235.00	LNFT			.00	
ELECTRICAL GROUND DEMO	#2 GROUND	550.00	LNFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE		I	10202.46	12242.95	22.96
INSULATION DEMO	INSULATION (BAT)	14980.00	SQFT			583.00	
INSULATION DEMO	INSULATION (BAT)	25321.50	SQFT			583.00	
INSULATION DEMO	INSULATION (BAT)	10744.27	SQFT			583.00	
INSULATION DEMO	INSULATION (BAT)	10169.00	SQFT			583.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE		I	550.00	1100.00	8.25
MISC. MATERIAL DEMO	MISC. DEBRIS	150.00	CUFT			583.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00	CUFT			583.00	
MISC. MATERIAL DEMO	MISC. DEBRIS	200.00	CUFT			583.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE		I	1067.61	1281.13	1.61
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	1270.96	CUFT			.00	
ROOFING (BUILT UP)	ROOFING (BUILT UP)	ABOVE GRADE		I	1020.00	2040.00	36.72
BUILT UP ROOFING DEMO	ROOFING (BUILT UP ROOF)	12240.00	SQFT			583.00	
WINDOWS	WINDOWS	ABOVE GRADE		I	425.33	850.67	8.51
WINDOW DEMO	WINDOWS	1936.00	SQFT			583.00	
WINDOW DEMO	WINDOWS	144.00	SQFT			583.00	

Source: 9A SPECIAL PRODUCTS PLANT Component Category: 3

Material	Material Description	Grade Level	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity				Elevation (FT)	
WINDOW DEMO	WINDOWS	472.00 SQFT				583.00	
WOOD	WOOD	ABOVE GRADE		I	100.00	200.00	1.50
MISC. MATERIAL DEMO	WOOD FRAMING	100.00 CUFT				583.00	

000557

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	33.48	559.14	8.20
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.06 TONS			583.00	
ROOF FRAMING DEMO	C-CHANNEL FRAMING	1.71 TONS			583.00	
ROOF FRAMING DEMO	MISC STEEL	2.50 TONS			583.00	
ROOF FRAMING DEMO	MISC. ANGLES	1.50 TONS			583.00	
ROOF FRAMING DEMO	W10 X 21 MEMBERS	.79 TONS			583.00	
ROOF FRAMING DEMO	W8 X 24 MEMBERS	.65 TONS			583.00	
DOORS	DOORS	ABOVE GRADE	B	6.33	16.67	.17
EXT DOOR DEMO	EXT DOORS (MAN & OH)	50.00 SQFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.79	3.58	.30
ELECTRICAL DEMO	2" DIAMETER & LESS	273.64 LNFT			583.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	19.80	69.30	.27
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	22.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	22.50	78.75	.09
EQUIPMENT DEMO	HVAC EQUIPMENT	25.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	B	31.50	110.25	.18
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	35.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	630.00	2205.00	10.89
EQUIPMENT DEMO	PROCESS EQUIPMENT	700.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	28.15	56.29	3.17
PIPING DEMO	2" DIAMETER & LESS	601.69 LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	115.93 LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	358.98 LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	117.97 LNFT			583.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	99.51	199.01	4.39
PIPING DEMO	OVER 4" DIAMETER	263.95 LNFT			583.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	C	2.20	7.70	.03
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	22.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	C	2.50	8.75	.01
EQUIPMENT DEMO	HVAC EQUIPMENT	25.00 CUFT			.00	
EQUIPMENT	MATERIAL HANDLING EQUIPMENT	ABOVE GRADE	C	3.50	12.25	.02
EQUIPMENT DEMO	MATERIAL HANDLING EQUIPMENT	35.00 CUFT			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	70.00	245.00	1.21
EQUIPMENT DEMO	PROCESS EQUIPMENT	700.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	3.13	6.25	.35
PIPING DEMO	2" DIAMETER & LESS	601.69 LNFT			583.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
PIPING DEMO	2" DIAMETER & LESS	115.93 LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	358.98 LNFT			583.00	
PIPING DEMO	2" DIAMETER & LESS	117.97 LNFT			583.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	C	11.06	22.11	.49
PIPING DEMO	OVER 4" DIAMETER	263.95 LNFT			583.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	.50	1.01	.14
HVAC DEMO	DUCTWORK DEMO (ROUND)	101.09 SQFT			583.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.14	.28	.05
LEAD FLASHING DEMO	LEAD FLASHING	100.00 LBS			583.00	
LOUVERS	LOUVERS	ABOVE GRADE	D	3.33	6.67	.07
LOUVER DEMO	EXT LOUVERS	20.00 SQFT			583.00	
CONCRETE	CONCRETE	ABOVE GRADE	E	81.00	105.30	6.08
MISC CONCRETE DEMO	MISC. CONCRETE ITEMS	3.00 CUYD			583.00	
CONCRETE	CONCRETE	BELOW GRADE	E	183.87	239.04	13.79
CONCRETE CURBING DEMO	CURBING	5.56 CUYD			.00	
CONCRETE SUMP DEMO	PIT SLAB	.16 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.15 CUYD			.00	
CONCRETE SUMP DEMO	SUMP PIT WALLS	.65 CUYD			.00	
CONCRETE SUMP DEMO	SUMP SLAB	.30 CUYD			.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	468.10	608.53	35.11
CONCRETE EQUIPMENT FNDN DEMO	EQUIP PADS	1.04 CUYD			.00	
CONCRETE EQUIPMENT FNDN DEMO	TANK FNDNS	1.19 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	2.59 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	3.11 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.20 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.60 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM W/STRIP FOOTINGS	1.17 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS	.22 CUYD			.00	
CONCRETE PEDESTAL DEMO	MISCELLANEUOS PEDESTALS	1.00 CUYD			.00	
CONCRETE PEDESTAL DEMO	MISCELLANEUOS PEDESTALS	.22 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	994.50	1292.85	74.59
CONCRETE SLAB DEMO	SLAB AT GRADE	3.50 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE	19.44 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (DIKE)	11.67 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE SPILLWAY SLAB/CURB	2.22 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	74.96	89.95	4.21
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2056.00 SQFT			583.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	42.85	51.42	2.37
INT TRANSITE DEMO	INT TRANSITE PANELS	2056.88 SQFT			583.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	43.18	51.81	2.43
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1184.25 SQFT			583.00	

Source: 9B PLANT 9 SUMP TREATMENT FACILITY Component Category: 3

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	.84	3.37	.00
HVAC DEMO	INSULATION	10.11 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	24.10	96.39	.05
PIPING DEMO	INSULATION	289.16 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	21.25	25.50	.03
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	342.67	411.20	.77
INSULATION DEMO	INSULATION (BAT)	2056.00 SQFT			583.00	
MISCELLANEOUS	MISCELLANEOUS DEBRIS	ABOVE GRADE	I	50.00	100.00	.75
MISC. MATERIAL DEMO	MISC. DEBRIS	50.00 CUFT			583.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	111.54	133.85	.17
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	132.79 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	19.83	39.65	.40
WINDOW DEMO	WINDOWS	118.96 SQFT			583.00	

Source: 9C PLANT 9 DUST COLLECTOR Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	6.12	102.24	1.50
FLOOR PLATING DEMO	MEDIUM FLOOR PLATE	.50 TONS			583.00	
MISC. STEEL DEMO	MISC. ANGLES	1.00 TONS			583.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	14.99	29.99	2.52
ELECTRICAL DEMO	2" DIAMETER & LESS	486.36 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	1216.36 LNFT			583.00	
ELECTRICAL DEMO	2" DIAMETER & LESS	588.18 LNFT			583.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	.36	.73	.04
PIPING DEMO	2" DIAMETER & LESS	13.90 LNFT			583.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	20.94	41.89	.92
PIPING DEMO	OVER 4" DIAMETER	50.00 LNFT			583.00	
DUCTWORK	DUCTWORK	ABOVE GRADE	D	3.48	6.96	.96
HVAC DEMO	DUCTWORK DEMO (ROUND)	698.18 SQFT			583.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	586.67	762.67	44.00
CONCRETE SLAB DEMO	SLAB AT GRADE	21.73 CUYD			.00	
INSULATION	DUCTWORK INSULATION	ABOVE GRADE	H	5.82	23.27	.01
HVAC DEMO	INSULATION	69.82 SQFT			.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	2.01	8.03	.00
PIPING DEMO	INSULATION	24.10 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	6.07	7.28	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	31.87	38.24	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	37.94 CUFT			.00	

000381

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	17.55	293.10	4.30
COLUMN DEMO	W21 X 44 MEMBERS	1.00 TONS			583.00	
EXT WALL FRMNG DEMO	C-CHANNEL FRAMING	1.30 TONS			583.00	
ROOF FRAMING DEMO	W21 X 49 MEMBERS	2.00 TONS			583.00	
DOORS	DOORS	ABOVE GRADE	B	15.00	30.00	.30
EXT DOOR DEMO	EXT DOORS (MAN & OH)	90.00 SQFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	3.18	6.37	.53
ELECTRICAL DEMO	2" DIAMETER & LESS	486.36 LNFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	43.37	86.74	4.71
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	358.13 LNFT			583.00	
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	378.13 LNFT			583.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	40.00	80.00	.25
ELECTRICAL DEMO	ELECTRICAL FIXTURES	20.00 EACH			583.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
LEAD FLASHING	LEAD FLASHING	ABOVE GRADE	D	.14	.28	.05
LEAD FLASHING DEMO	LEAD FLASHING	100.00 LBS			580.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	555.90	722.67	41.69
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.07 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	6.07 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	5.04 CUYD			.00	
CONCRETE GRADE BEAM DEMO	GRADE BEAM	2.49 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS W/STRIP FOOTINGS	.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	INTEGRAL PEDESTALS W/STRIP FOOTINGS	.44 CUYD			.00	
CONCRETE PEDESTAL DEMO	PEDESTALS	.03 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	602.70	783.51	45.20
CONCRETE SLAB DEMO	SLAB AT GRADE	14.88 CUYD			.00	
CONCRETE SLAB DEMO	SLAB AT GRADE (ADDITION)	7.44 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	94.79	113.75	5.33
EXT TRANSITE DEMO	EXT TRANSITE PANELS	2600.00 SQFT			583.00	
TRANSITE	INTERIOR TRANSITE PANELS	ABOVE GRADE	G	80.21	96.25	4.43
INT TRANSITE DEMO	INT TRANSITE PANELS	3850.00 SQFT			583.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	45.57	54.69	2.56
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	1250.00 SQFT			583.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	9.86	11.84	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	61.65 CUFT			.00	
INSULATION	BUILDING INSULATION	ABOVE GRADE	I	641.67	770.00	1.44
INSULATION DEMO	INSULATION (BAT)	3850.00 SQFT			583.00	

Source: 9D PLANT 9 SUBSTATION Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	51.79	62.14	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	61.65 CUFT			.00	
WINDOWS	WINDOWS	ABOVE GRADE	I	6.67	13.33	.13
WINDOW DEMO	WINDOWS	40.00 SQFT			583.00	

000563

Source: 9E PLANT 9 CYLINDER SHED Component Category: 4

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	.82	13.63	.20
EXT WALL FRMNG DEMO	MISC ANGLE FRAMING	.20 TONS			583.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	33.33	43.33	2.50
CONCRETE SLAB DEMO	SLAB AT GRADE	1.23 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	4.74	5.69	.27
EXT TRANSITE DEMO	EXT TRANSITE PANELS	130.00 SQFT			583.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	1.46	1.75	.08
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	40.00 SQFT			583.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	3.04	3.64	.00
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	18.97 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	15.93	19.12	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	18.97 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	4.08	68.16	1.00
COLUMN DEMO	W21 X 44 MEMBERS	1.00 TONS			583.00	
DOORS	DOORS	ABOVE GRADE	B	5.00	10.00	.10
EXT DOOR DEMO	EXT DOORS (MAN & OH)	30.00 SQFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	.83	1.65	.14
ELECTRICAL DEMO	2" DIAMETER & LESS	126.36 LNFT			583.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	7.33	14.65	.80
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	124.38 LNFT			583.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	12.00	24.00	.08
ELECTRICAL DEMO	ELECTRICAL FIXTURES	6.00 EACH			583.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	10.00	20.00	.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	1.00 EACH			.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	B	11.70	40.95	.17
EQUIPMENT DEMO	PROCESS EQUIPMENT	13.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	5.42	10.83	.61
PIPING DEMO	2" DIAMETER & LESS	229.83 LNFT			583.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	13.18	26.36	.94
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT			583.00	
EQUIPMENT	PROCESS EQUIPMENT	ABOVE GRADE	C	1.30	4.55	.02
EQUIPMENT DEMO	PROCESS EQUIPMENT	13.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	.60	1.20	.07
PIPING DEMO	2" DIAMETER & LESS	229.83 LNFT			583.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	1.46	2.93	.10
PIPING DEMO	2-1/2" TO 4" DIAMETER	139.87 LNFT			583.00	
METAL PANELS	EXTERIOR METAL WALL PANELS	ABOVE GRADE	D	2.58	5.17	.64
METAL WALL PANEL DEMO	EXT. METAL PANELS	1160.00 SQFT			583.00	
METAL PANELS	METAL PANEL ROOF	ABOVE GRADE	D	.85	1.69	.21
METAL ROOF PANEL DEMO	ROOFING (METAL PANELS)	380.00 SQFT			583.00	
CONCRETE	CONCRETE FOUNDATION	BELOW GRADE	E	27.50	35.75	2.06
CONCRETE GRADE BEAM DEMO	GRADE BEAM	1.02 CUYD			.00	
CONCRETE	CONCRETE SLABS	AT GRADE	E	466.67	606.67	35.00
CONCRETE SLAB DEMO	SLAB AT GRADE	17.28 CUYD			.00	
TRANSITE	EXTERIOR TRANSITE PANELS	ABOVE GRADE	G	8.75	10.50	.49
EXT TRANSITE DEMO	EXT TRANSITE PANELS	240.00 SQFT			583.00	
TRANSITE	TRANSITE ROOF	ABOVE GRADE	G	3.65	4.37	.21

000565

Source: 9F ELECTROSTATIC PRECIPITATOR Component Category: 3

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
TRANSITE ROOF DEMO	ROOFING (COR TRANSITE ROOF)	100.00 SQFT			583.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	H	6.02	24.10	.01
PIPING DEMO	INSULATION	72.29 SQFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	9.11	10.93	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	47.80	57.36	.07
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	56.91 CUFT			.00	

Source: G-002 ROADS Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
ASPHALT	ASPHALT	AT GRADE	8	290978.33	378271.83	11784.62

Work Type	Item	Takeoff Quantity	Elevation (FT)
ASPHALT DEMO	"101ST" STREET ASPHALT	134.19 CUYD	.00
ASPHALT DEMO	"102ND" STREET ASPHALT	65.12 CUYD	.00
ASPHALT DEMO	"1ST" STREET ASPHALT	8.64 CUYD	.00
ASPHALT DEMO	"1ST" STREET ASPHALT	626.54 CUYD	.00
ASPHALT DEMO	"2ND" STREET ASPHALT	324.07 CUYD	.00
ASPHALT DEMO	"2ND" STREET ASPHALT	104.69 CUYD	.00
ASPHALT DEMO	"2ND" STREET ASPHALT	216.05 CUYD	.00
ASPHALT DEMO	"A" STREET ASPHALT	180.25 CUYD	.00
ASPHALT DEMO	"B" STREET ASPHALT	365.43 CUYD	.00
ASPHALT DEMO	"C" STREET ASPHALT	180.25 CUYD	.00
ASPHALT DEMO	"D" STREET ASPHALT	49.38 CUYD	.00
ASPHALT DEMO	"D" STREET ASPHALT	108.63 CUYD	.00
ASPHALT DEMO	"D" STREET ASPHALT	180.23 CUYD	.00
ASPHALT DEMO	"D" STREET ASPHALT	67.89 CUYD	.00
ASPHALT DEMO	"E" STREET ASPHALT	118.40 CUYD	.00
ASPHALT DEMO	"E" STREET ASPHALT	194.25 CUYD	.00
ASPHALT DEMO	"F" STREET ASPHALT	138.27 CUYD	.00
ASPHALT DEMO	"F" STREET ASPHALT	54.32 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	4.44 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	12.96 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	13.33 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	18.52 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	16.67 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	11.11 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	2.78 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	16.30 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	10.37 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	33.33 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	6.17 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	16.30 CUYD	.00
ASPHALT DEMO	GRID 10 ASPHALT ROADWAY	4.94 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	259.26 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	9.26 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	25.93 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	19.44 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	30.56 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	4.94 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	20.37 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	94.88 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	119.44 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	13.33 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	11.73 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	27.78 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	27.78 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	5.62 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	19.75 CUYD	.00
ASPHALT DEMO	GRID 11 ASPHALT ROADWAY	5.56 CUYD	.00
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	16.67 CUYD	.00
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	22.69 CUYD	.00
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	22.22 CUYD	.00
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	14.81 CUYD	.00

000567

Material	Material Description	Grade Level	FS	Unbulked Cat. Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	15.56	CUYD		.00	
ASPHALT DEMO	GRID 12 ASPHALT ROADWAY	333.33	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	14.81	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	26.48	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	7.41	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	12.22	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	9.38	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	43.21	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	104.94	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	2.96	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	34.57	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	4.75	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	92.59	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	141.67	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	14.81	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	44.44	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	65.19	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	2.09	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	7.41	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	25.31	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	7.41	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	64.81	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	32.59	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	32.84	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	5.56	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	12.84	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	12.78	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	24.07	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	1.48	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	12.22	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	18.77	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	3.09	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	14.81	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	4.94	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	12.22	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	18.33	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	64.81	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	9.26	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	1.48	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	83.95	CUYD		.00	
ASPHALT DEMO	GRID 13 ASPHALT ROADWAY	57.41	CUYD		.00	
ASPHALT DEMO	GRID 15 ASPHALT ROADWAY	15.80	CUYD		.00	
ASPHALT DEMO	GRID 15 ASPHALT ROADWAY	8.40	CUYD		.00	
ASPHALT DEMO	GRID 15 ASPHALT ROADWAY	25.68	CUYD		.00	
ASPHALT DEMO	GRID 15 ASPHALT ROADWAY	88.89	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	8.64	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	9.26	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	13.83	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.44	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	14.81	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	10.22	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.67	CUYD		.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	26.54	CUYD		.00	

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.49 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.26 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.44 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.78 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	34.57 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.48 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	.74 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	.69 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.98 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.60 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.15 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	8.89 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.41 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.98 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	14.81 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.19 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.32 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	10.37 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	15.56 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	80.25 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.37 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	.64 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	6.79 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.41 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.98 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	17.84 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.16 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.77 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	5.19 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	6.91 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	22.22 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.57 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	8.89 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.94 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	10.86 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.16 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	4.74 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	7.78 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	8.40 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.96 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.47 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	5.93 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	2.96 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	3.33 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.48 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	29.63 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	21.09 CUYD			.00	
ASPHALT DEMO	GRID 19 ASPHALT ROADWAY	1.85 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	30.86 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	4.63 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	12.35 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	22.22 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	38.89 CUYD			.00	

000569

7558

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	233.33 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	11.11 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	37.04 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	25.93 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	37.04 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	30.86 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	45.37 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	6.17 CUYD			.00	
ASPHALT DEMO	GRID 2 ASPHALT ROADWAY	300.93 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	13.04 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	2.37 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	7.60 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	5.93 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	3.21 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	5.93 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	1.04 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	8.64 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	11.11 CUYD			.00	
ASPHALT DEMO	GRID 20 ASPHALT ROADWAY	2.84 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	21.60 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	.93 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	14.81 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	1.73 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	1.85 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	16.05 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	2.47 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	8.02 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	1.54 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	2.47 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	3.09 CUYD			.00	
ASPHALT DEMO	GRID 21 ASPHALT WALKWAY	1.73 CUYD			.00	
ASPHALT DEMO	GRID 24 ASPHALT WALKWAY	27.16 CUYD			.00	
ASPHALT DEMO	GRID 24 ASPHALT WALKWAY	324.07 CUYD			.00	
ASPHALT DEMO	GRID 24 ASPHALT WALKWAY	28.15 CUYD			.00	
ASPHALT DEMO	GRID 24 ASPHALT WALKWAY	10.67 CUYD			.00	
ASPHALT DEMO	GRID 24 ASPHALT WALKWAY	17.78 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	12.35 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	1.11 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	1.85 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	4.44 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	67.90 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	16.05 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	2.47 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	3.09 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	3.70 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	17.28 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	97.22 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	9.88 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	8.02 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	15.12 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	13.89 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	20.99 CUYD			.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	37.04 CUYD			.00	

000570

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	86.42	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	22.22	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	24.69	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	1.85	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	30.86	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	34.57	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	21.60	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	12.96	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	50.93	CUYD		.00	
ASPHALT DEMO	GRID 26 ASPHALT WALKWAY	24.69	CUYD		.00	
ASPHALT DEMO	GRID 28 ASPHALT WALKWAY	59.25	CUYD		.00	
ASPHALT DEMO	GRID 28 ASPHALT WALKWAY	22.22	CUYD		.00	
ASPHALT DEMO	GRID 28 ASPHALT WALKWAY	148.13	CUYD		.00	
ASPHALT DEMO	GRID 28 ASPHALT WALKWAY	2.96	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	79.01	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	7.41	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	41.05	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	76.23	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	4.94	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	3.70	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	6.17	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	11.11	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	6.48	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	324.07	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	22.22	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	2.47	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	33.33	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	11.11	CUYD		.00	
ASPHALT DEMO	GRID 3 ASPHALT ROADWAY	11.11	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	118.52	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	17.28	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	11.11	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	39.51	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	103.70	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	74.69	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	30.25	CUYD		.00	
ASPHALT DEMO	GRID 4 ASPHALT ROADWAY	149.38	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	26.67	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	3.40	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	47.53	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	5.56	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	9.81	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	15.74	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	43.21	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	25.67	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	2.47	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	22.22	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	25.06	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	760.80	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	13.64	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	3.95	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	114.20	CUYD		.00	
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	8.33	CUYD		.00	

000571

Source: G-002 ROADS Component Category: 8

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
ASPHALT DEMO	GRID 6 ASPHALT ROADWAY	24.44		CUYD		.00	
CONCRETE	CONCRETE SLABS	AT GRADE		R	452073.50	587695.55	33905.51
CONCRETE SLAB DEMO	"101ST" STREET CONCRETE	201.48		CUYD		.00	
CONCRETE SLAB DEMO	"102ND" STREET CONCRETE	97.78		CUYD		.00	
CONCRETE SLAB DEMO	"1ST" STREET CONCRETE	12.96		CUYD		.00	
CONCRETE SLAB DEMO	"1ST" STREET CONCRETE	939.81		CUYD		.00	
CONCRETE SLAB DEMO	"2ND" STREET CONCRETE	324.07		CUYD		.00	
CONCRETE SLAB DEMO	"2ND" STREET CONCRETE	157.04		CUYD		.00	
CONCRETE SLAB DEMO	"2ND" STREET CONCRETE	486.11		CUYD		.00	
CONCRETE SLAB DEMO	"A" STREET CONCRETE	270.37		CUYD		.00	
CONCRETE SLAB DEMO	"B" STREET CONCRETE	548.15		CUYD		.00	
CONCRETE SLAB DEMO	"C" STREET CONCRETE	270.37		CUYD		.00	
CONCRETE SLAB DEMO	"D" STREET CONCRETE	101.85		CUYD		.00	
CONCRETE SLAB DEMO	"D" STREET CONCRETE	162.96		CUYD		.00	
CONCRETE SLAB DEMO	"D" STREET CONCRETE	74.07		CUYD		.00	
CONCRETE SLAB DEMO	"D" STREET CONCRETE	270.37		CUYD		.00	
CONCRETE SLAB DEMO	"E" STREET CONCRETE	291.67		CUYD		.00	
CONCRETE SLAB DEMO	"E" STREET CONCRETE	177.78		CUYD		.00	
CONCRETE SLAB DEMO	"F" STREET CONCRETE	207.41		CUYD		.00	
CONCRETE SLAB DEMO	"F" STREET CONCRETE	81.48		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	25.00		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	20.00		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	9.26		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	24.44		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	15.56		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	27.78		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	16.30		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	6.67		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	7.41		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	50.00		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	4.17		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	16.67		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE ROADWAY	19.44		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE WALKWAY	15.56		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE WALKWAY	4.07		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE WALKWAY	9.63		CUYD		.00	
CONCRETE SLAB DEMO	GRID 10 CONCRETE WALKWAY	8.15		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	17.59		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	29.17		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	388.89		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	142.31		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	45.83		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	8.33		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	7.41		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	29.63		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	30.56		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	8.43		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	13.89		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	38.89		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	20.00		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	41.67		CUYD		.00	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	41.67		CUYD		.00	

Material	Material Description	Grade Level	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity				Elevation (FT)	
CONCRETE SLAB DEMO	GRID 11 CONCRETE ROADWAY	179.17 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	15.56 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	333.33 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	22.69 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	16.67 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	22.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE ROADWAY	14.81 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE WALKWAY	6.48 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE WALKWAY	11.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 12 CONCRETE WALKWAY	22.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	7.13 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	138.89 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	157.41 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	49.26 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	86.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	97.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	36.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	13.89 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	22.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	51.85 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	11.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	3.13 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	11.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	4.63 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	18.33 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	48.89 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	18.33 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	37.96 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	212.50 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	27.50 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	22.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	97.78 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	4.44 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	39.72 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	66.67 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	19.26 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	8.33 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	2.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	28.15 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	22.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	97.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	7.41 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	125.93 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	19.17 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	18.33 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	64.81 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	14.07 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	11.11 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE ROADWAY	2.22 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	6.15 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	3.70 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	17.59 CUYD				.00	
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	7.87 CUYD				.00	

000573

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)	Elevation (FT)
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	10.00	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	3.70	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	11.57	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	4.17	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	8.89	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	6.48	CUYD				.00
CONCRETE SLAB DEMO	GRID 13 CONCRETE WALKWAY	6.67	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	5.37	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	1.48	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	3.70	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	10.65	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	4.81	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	1.39	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	2.31	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	3.70	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	7.41	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	5.09	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	1.85	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	7.78	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	9.63	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	7.78	CUYD				.00
CONCRETE SLAB DEMO	GRID 14 CONCRETE WALKWAY	13.89	CUYD				.00
CONCRETE SLAB DEMO	GRID 15 CONCRETE ROADWAY	38.52	CUYD				.00
CONCRETE SLAB DEMO	GRID 15 CONCRETE ROADWAY	23.70	CUYD				.00
CONCRETE SLAB DEMO	GRID 15 CONCRETE ROADWAY	12.59	CUYD				.00
CONCRETE SLAB DEMO	GRID 15 CONCRETE ROADWAY	133.33	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	39.81	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	31.63	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	13.89	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	6.48	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.96	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	12.96	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	6.67	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	23.33	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	120.37	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	51.85	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	7.11	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.74	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.22	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	5.96	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.74	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	7.41	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	3.85	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.78	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	13.33	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	15.56	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.44	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.22	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	1.11	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.44	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.41	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	10.19	CUYD				.00
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	33.33	CUYD				.00

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	22.22 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	10.37 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	3.70 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	22.22 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	1.78 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	16.30 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	12.59 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	.96 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	6.74 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.00 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	6.22 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	5.96 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	7.78 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	11.67 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	15.33 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.67 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	6.67 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	20.74 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	3.61 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	4.89 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	3.61 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	2.65 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	1.04 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	13.33 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	8.89 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	3.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	5.00 CUYD			.00	
CONCRETE SLAB DEMO	GRID 19 CONCRETE ROADWAY	26.76 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	46.30 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	46.30 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	16.67 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	6.94 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	68.06 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	55.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	33.33 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	55.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	58.33 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	38.89 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	451.39 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	9.26 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	18.52 CUYD			.00	
CONCRETE SLAB DEMO	GRID 2 CONCRETE ROADWAY	350.00 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	12.96 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	19.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	8.89 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	8.89 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	1.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	44.44 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	3.56 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	4.81 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	4.26 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	11.41 CUYD			.00	
CONCRETE SLAB DEMO	GRID 20 CONCRETE ROADWAY	16.67 CUYD			.00	

000575

Source: G-002 ROADS Component Category: 8

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	4.63	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	32.41	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	3.70	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	2.31	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	22.22	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	24.07	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	1.39	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	2.59	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	2.59	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	12.04	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	3.70	CUYD			.00
CONCRETE SLAB DEMO	GRID 21 CONCRETE WALKWAY	2.78	CUYD			.00
CONCRETE SLAB DEMO	GRID 24 CONCRETE ROADWAY	42.22	CUYD			.00
CONCRETE SLAB DEMO	GRID 24 CONCRETE ROADWAY	486.11	CUYD			.00
CONCRETE SLAB DEMO	GRID 24 CONCRETE ROADWAY	40.74	CUYD			.00
CONCRETE SLAB DEMO	GRID 24 CONCRETE ROADWAY	16.00	CUYD			.00
CONCRETE SLAB DEMO	GRID 24 CONCRETE ROADWAY	26.67	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	145.83	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	19.44	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	129.63	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	22.69	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	33.33	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	3.70	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	4.63	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	25.93	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	32.41	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	24.07	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	1.67	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	101.85	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	37.04	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	20.83	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	37.04	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	31.48	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	14.81	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	18.52	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	51.85	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	2.78	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	12.04	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	2.78	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	55.56	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	76.39	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	46.30	CUYD			.00
CONCRETE SLAB DEMO	GRID 26 CONCRETE WALKWAY	6.67	CUYD			.00
CONCRETE SLAB DEMO	GRID 28 CONCRETE WALKWAY	4.44	CUYD			.00
CONCRETE SLAB DEMO	GRID 28 CONCRETE WALKWAY	33.33	CUYD			.00
CONCRETE SLAB DEMO	GRID 28 CONCRETE WALKWAY	222.22	CUYD			.00
CONCRETE SLAB DEMO	GRID 28 CONCRETE WALKWAY	88.89	CUYD			.00
CONCRETE SLAB DEMO	GRID 28 CONCRETE WALKWAY	5.56	CUYD			.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	16.67	CUYD			.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	9.72	CUYD			.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	11.11	CUYD			.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	33.33	CUYD			.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	486.11	CUYD			.00

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	114.35 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	9.26 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	7.41 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	50.00 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	118.52 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	3.70 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	16.67 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	5.56 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	61.57 CUYD				.00
CONCRETE SLAB DEMO	GRID 3 CONCRETE ROADWAY	16.67 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	155.56 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	45.37 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	224.07 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	177.78 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	16.67 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	59.26 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	25.93 CUYD				.00
CONCRETE SLAB DEMO	GRID 4 CONCRETE ROADWAY	112.04 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	38.50 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	1141.20 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	3.70 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	171.30 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	36.67 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	71.30 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	8.33 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	5.09 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	8.33 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	23.61 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	5.93 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	14.72 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	37.59 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	64.81 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	20.46 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	33.33 CUYD				.00
CONCRETE SLAB DEMO	GRID 6 CONCRETE ROADWAY	40.00 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	1.39 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	6.71 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	388.89 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	1.85 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	.37 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	81.48 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	3.33 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	2.08 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	16.20 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	1.58 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	2.22 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	6.39 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	3.06 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	18.98 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	2.04 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	.46 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	3.24 CUYD				.00
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	2.31 CUYD				.00

000577

Source: G-002 ROADS Component Category: 8

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	1.94 CUYD			.00	
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	5.93 CUYD			.00	
CONCRETE SLAB DEMO	GRID 7 CONCRETE WALKWAY	.69 CUYD			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	137.71	275.41	23.14
ELECTRICAL DEMO	2" DIAMETER & LESS	21040.00 LNFT			600.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	277.44	554.88	30.14
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	4710.00 LNFT			600.00	
ELECTRICAL	CONDUIT/WIRE/CABLE TRAY (OVER 4")	ABOVE GRADE	B	278.16	556.32	23.12
ELECTRICAL DEMO	OVER 4" DIAMETER	1700.00 LNFT			600.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	10.00	20.00	.06
ELECTRICAL DEMO	ELECTRICAL FIXTURES	5.00 EACH			600.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	1313.00	4595.50	7.88
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	1313.00 CUFT			.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	B	2779.50	5558.99	313.20
PIPING DEMO	2" DIAMETER & LESS	889.00 LNFT			590.00	
PIPING DEMO	2" DIAMETER & LESS	583.00 LNFT			593.00	
PIPING DEMO	2" DIAMETER & LESS	1372.00 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	960.00 LNFT			597.00	
PIPING DEMO	2" DIAMETER & LESS	1410.00 LNFT			598.00	
PIPING DEMO	2" DIAMETER & LESS	2585.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	1240.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	80.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	8080.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	585.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	1900.00 LNFT			600.00	
PIPING DEMO	2" DIAMETER & LESS	168.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	320.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	3335.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	165.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	1009.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	2702.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	2100.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	7535.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	51419.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	75.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	3264.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	1960.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	1430.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	168.00 LNFT			602.00	
PIPING DEMO	2" DIAMETER & LESS	2516.00 LNFT			603.00	
PIPING DEMO	2" DIAMETER & LESS	3820.00 LNFT			607.00	
PIPING DEMO	2" DIAMETER & LESS	2544.00 LNFT			607.00	
PIPING DEMO	2" DIAMETER & LESS	131.00 LNFT			608.00	
PIPING DEMO	2" DIAMETER & LESS	1271.00 LNFT			609.00	
PIPING DEMO	2" DIAMETER & LESS	553.00 LNFT			609.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	B	2964.61	5929.23	212.33
PIPING DEMO	2-1/2" TO 4" DIAMETER	301.00 LNFT			590.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	312.00 LNFT			593.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	583.00 LNFT			593.00	

000579

Source: G-004 UTILITY LINES Component Category: 10

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2058.00 LNFT			597.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	240.00 LNFT			597.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1410.00 LNFT			598.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2439.00 LNFT			600.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	930.00 LNFT			600.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	2660.00 LNFT			600.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	335.00 LNFT			600.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	840.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	475.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1790.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	220.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4194.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	4075.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	655.00 LNFT			602.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	537.00 LNFT			603.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1351.00 LNFT			607.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	715.00 LNFT			607.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	120.00 LNFT			608.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	1339.00 LNFT			609.00	
PIPING DEMO	2-1/2" TO 4" DIAMETER	731.00 LNFT			609.00	
PIPING	PIPING (OVER 4")	ABOVE GRADE	B	8521.67	17043.34	376.36
PIPING DEMO	OVER 4" DIAMETER	190.00 LNFT			600.00	
PIPING DEMO	OVER 4" DIAMETER	70.00 LNFT			600.00	
PIPING DEMO	OVER 4" DIAMETER	500.00 LNFT			600.00	
PIPING DEMO	OVER 4" DIAMETER	840.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	3480.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	1712.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	3554.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	715.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	1885.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	326.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	475.00 LNFT			602.00	
PIPING DEMO	OVER 4" DIAMETER	683.00 LNFT			603.00	
PIPING DEMO	OVER 4" DIAMETER	1955.00 LNFT			607.00	
PIPING DEMO	OVER 4" DIAMETER	1410.00 LNFT			607.00	
PIPING DEMO	OVER 4" DIAMETER	546.00 LNFT			608.00	
PIPING DEMO	OVER 4" DIAMETER	2003.00 LNFT			609.00	
PIPING	PIPING (2" AND LESS)	ABOVE GRADE	C	25.73	51.47	2.90
CONTAMINATED SEWER DEMO	2" DIAMETER & LESS	983.00 LNFT			602.00	
PIPING	PIPING (2-1/2" TO 4")	ABOVE GRADE	C	286.62	573.24	20.53
COOLING WATER PIPING DEMO	2-1/2" TO 4" DIAMETER	440.00 LNFT			598.00	
CONTAMINATED SEWER DEMO	2-1/2" TO 4" DIAMETER	2021.00 LNFT			602.00	
CONTAMINATED SEWER DEMO	2-1/2" TO 4" DIAMETER	276.00 LNFT			602.00	
INSULATION	PIPING INSULATION	ABOVE GRADE	B	10283.92	41135.67	23.14
PIPING DEMO	INSULATION	123407.00 SQFT			602.00	

Source: G-006 PROCESS TRAILERS Component Category: 1

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
TRAILERS	PROCESS TRAILERS	ABOVE GRADE	I	71136.00	142272.00	209.00
TRAILER DEMO	PROCESS TRAILERS	71136.00 CUFT			.00	

000381

Source: G-007 NON-PROCESS TRAILERS Component Category: 1

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
TRAILERS	NON PROCESS TRAILERS	ABOVE GRADE	I	305136.00	610272.00	896.50

Work Type	Item	Takeoff Quantity	Elevation (FT)
TRAILER DEMO	NON-PROCESS TRAILERS	305136.00 CUFT	.00

Source: G-008 PIPE BRIDGES Component Category: 9

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	2262.04	37776.08	554.20
MISC. STEEL DEMO	MISC STEEL (LADDER & CAGE)	.60 TONS			580.00	
MISC. STEEL DEMO	MISC STEEL (PLATES ETC)	16.40 TONS			580.00	
STEEL COLUMN DEMO	TUBE STEEL FRAMING	11.60 TONS			580.00	
STEEL COLUMN DEMO	TUBE STEEL FRAMING	20.70 TONS			580.00	
STEEL COLUMN DEMO	W8 X 24 MEMBERS	310.60 TONS			580.00	
MISC. STEEL DEMO	C-CHANNEL FRAMING	57.40 TONS			600.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	3.20 TONS			600.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	97.80 TONS			600.00	
MISC. STEEL DEMO	MISC ANGLE FRAMING	5.30 TONS			600.00	
MISC. STEEL DEMO	STEEL GRATING	.50 TONS			600.00	
MISC. STEEL DEMO	W14 X 26 MEMBERS	7.20 TONS			600.00	
MISC. STEEL DEMO	W21 X 44 MEMBERS	4.40 TONS			600.00	
MISC. STEEL DEMO	W6 X 15 MEMBERS	7.80 TONS			600.00	
MISC. STEEL DEMO	W8 X 18 MEMBERS	10.70 TONS			600.00	
CONCRETE	CONCRETE COLUMNS	ABOVE GRADE	E	351.00	456.30	26.33
CONCRETE COLUMN DEMO	CONCRETE COLUMNS	13.00 CUYD			580.00	

000583

Source: GRID 1 BUILDING 69 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level	PS Cat	Unbulked Volume (CUFT) / Takeoff Quantity	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	110.20	1840.41	27.00
RAIL TRACK DEMO	RAIL TRACK			27.00 TONS	.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	6.38	12.76	1.83
ELECTRICAL WIRING DEMO	ELECTRCIAL TRENCH			1170.00 LNFT	.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	1.96	3.93	.22
LOW PRESSURE FIRE LINE DEMO	DW-2"L1			75.00 LNFT	.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	471.24	942.48	20.81
HIGH PRESSURE FIRE LINE DEMO	FQ1-4-12"L1			500.00 LNFT	.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"			15.00 LNFT	.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6-12"L1			10.00 LNFT	.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-8"-L1			300.00 LNFT	.00	
LOW PRESSURE FIRE LINE DEMO	DW-8"			55.00 LNFT	.00	
SANITARY SEWER DEMO	SN-6"M1			245.00 LNFT	.00	
CONCRETE	CONCRETE	BELOW GRADE	E	416.21	541.08	31.22
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 16"X16"			3.44 CUYD	.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 7"X10"			11.97 CUYD	.00	
PIPING	CLAY PIPING	BELOW GRADE	E	229.60	298.48	16.07
CONTAMINATED SEWER DEMO	CE-6"			55.00 LNFT	.00	
PIPING DEMO	DRAIN TILE			835.00 LNFT	.00	
STORM SEWER DEMO	ST-1-10"N1			275.00 LNFT	.00	
STORM SEWER DEMO	ST-10"N1			105.00 LNFT	.00	
STORM SEWER DEMO	ST-12"-RCP			110.00 LNFT	.00	
STORM SEWER DEMO	ST-1A-10"N1			145.00 LNFT	.00	
STORM SEWER DEMO	ST-3-10"N1			330.00 LNFT	.00	
STORM SEWER DEMO	ST-3-12"N1			70.00 LNFT	.00	
STORM SEWER DEMO	ST-4"N1			160.00 LNFT	.00	
STORM SEWER DEMO	ST-6"-RCP			120.00 LNFT	.00	
STORM SEWER DEMO	ST-6"N1			340.00 LNFT	.00	
STORM SEWER DEMO	ST-8"N1			160.00 LNFT	.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	30.19	60.37	8.66
FEEDER CABLE DEMO	FEEDER CABLE			1915.00 LNFT	.00	
WOOD	WOOD	BELOW GRADE	I	2037.60	4075.20	30.56
RAIL TRACK DEMO	RAIL ROAD TIES			2037.60 CUFT	.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	217.35	3629.69	53.25
RAIL TRACK DEMO	RAIL TRACK	53.25 TONS			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	12.96	25.92	1.46
BRINE DEMO	BR-1-1.5"A	250.00 LNFT			.00	
FUEL GAS DEMO	PG-1"V1	55.00 LNFT			.00	
FUEL GAS DEMO	PL-1"V1	45.00 LNFT			.00	
FUEL GAS DEMO	PL-2"V1	55.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-46-1"W	90.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	68.59	137.18	4.91
DEIONIZED FEED DEMO	DF-1-4"W	125.00 LNFT			.00	
FUEL GAS DEMO	FG-2.5"	110.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-32-3"L1	55.00 LNFT			.00	
PIPING DEMO	STEEL BURN OFF LINE	200.00 LNFT			.00	
PIPING DEMO	UNIDENTIFIED ABAN. LINE	50.00 LNFT			.00	
RAW WATER DEMO	RW-3-3"A	15.00 LNFT			.00	
RAW WATER DEMO	RW1-E20-4"W	100.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1507.96	3015.93	66.60
FUEL GAS DEMO	FG-16-6"V	170.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-17-8"L1	425.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-28-8"L1	430.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-29-8"L1	110.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-30-8"L1	110.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-31-6"L1	70.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	105.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-10"L1	235.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-12"	100.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-15-6"L1	200.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6"	115.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8"W	110.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-8"L1	60.00 LNFT			.00	
PROCESS WATER DEMO	TW-12"W	5.00 LNFT			.00	
PROCESS WATER DEMO	TW-17-10"W	135.00 LNFT			.00	
PROCESS WATER DEMO	TW-4-10"L1	30.00 LNFT			.00	
PROCESS WATER DEMO	TW-44-12"L1	70.00 LNFT			.00	
PROCESS WATER DEMO	TW-69-6"L1	10.00 LNFT			.00	
PROCESS WATER DEMO	TW-71-12"L1	40.00 LNFT			.00	
PROCESS WATER DEMO	TW-E20-14"W	65.00 LNFT			.00	
PROCESS WATER DEMO	TW-E20-45-6"L1	100.00 LNFT			.00	
RAW WATER DEMO	RW-4-12"L1	105.00 LNFT			.00	
RAW WATER DEMO	RW-E20-12-14"L1	100.00 LNFT			.00	
RAW WATER DEMO	RW1-E20-10-8"W	30.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3D-6"M1	125.00 LNFT			.00	
STORM SEWER DEMO	ST-10"CI	110.00 LNFT			.00	
STORM SEWER DEMO	ST-12"CI	180.00 LNFT			.00	
STORM SEWER DEMO	ST-18-8"L1	10.00 LNFT			.00	
STORM SEWER DEMO	ST-5"CI	125.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI	120.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	53.41	106.81	3.83

000585

Source: GRID 10 BUILDING 10, 20, 38 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
COOLING WATER RETURN DEMO	WR-12-4"W	240.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-1-E20-5-4"L1	115.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-3-3"W	105.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-3-4"L1	10.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-5-3"C1	40.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	527.79	1055.57	23.31
COOLING WATER RETURN DEMO	WR-12-6"W	170.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-16-8"W	125.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-12-6"W	145.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-16-8"W	130.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-2-8"W	120.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-4-14"L1	20.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-4-8"W	50.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-6-8"C1	400.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT1-E20-5-14"L1	100.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	3306.94	4299.03	248.02
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X6"	20.16 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'6"X2'4"	90.74 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'2"X1'8"	11.57 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	305.14	396.69	21.36
STORM SEWER DEMO	ST UNIDENTIFIED	30.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	80.00 LNFT			.00	
STORM SEWER DEMO	ST-12"Y	55.00 LNFT			.00	
STORM SEWER DEMO	ST-15"N1	105.00 LNFT			.00	
STORM SEWER DEMO	ST-16"Y	390.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	240.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	1770.00 LNFT			.00	
STORM SEWER DEMO	ST-6"M	95.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	445.00 LNFT			.00	
STORM SEWER DEMO	ST-6C-8"N1	20.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	20.00 LNFT			.00	
STORM SEWER DEMO	ST-8"M	25.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	320.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	18.00	36.00	5.17
FEEDER CABLE DEMO	FEEDER CABLE	1142.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	3.68	7.36	.12
ELECTRICAL GROUND DEMO	#2 GROUND	170.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	505.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	2009.30	4018.60	30.14
RAIL TRACK DEMO	RAIL ROAD TIES	2009.30 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	59.39	991.78	14.55
RAIL TRACK DEMO	RAIL TRACK	14.55 TONS			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	26.44	52.88	2.98
DEIONIZED WATER DEMO	PW-1-1"P1	185.00 LNFT			.00	
FUEL GAS DEMO	FG-2-2"V	120.00 LNFT			.00	
FUEL GAS DEMO	FG-5-1.5"	45.00 LNFT			.00	
LIVE STEAM DEMO	LS-1-2"W	165.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	270.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-47-3"L1	60.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-25-2"S	165.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	137.71	275.41	9.86
ELECTRICAL CONDUIT DEMO	ALUMINUM CONDUIT	80.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-NO SIZE	65.00 LNFT			.00	
LIVE STEAM DEMO	LS-1-3"S	95.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-105-4"	425.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1232-3"	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1234-3"	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-27-3"W	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	55.00 LNFT			.00	
PROCESS WATER DEMO	TW-1240-4"W	10.00 LNFT			.00	
PROCESS WATER DEMO	TW-20-4"W	30.00 LNFT			.00	
PROCESS WATER DEMO	TW-4"	45.00 LNFT			.00	
PROCESS WATER DEMO	TW-9-3"W	180.00 LNFT			.00	
PROCESS WATER DEMO	TW-E22-3-4"	180.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"M1	25.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2266.13	4532.27	100.09
FUEL GAS DEMO	FG-13-6"V	400.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-11-6"L1	20.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"L1	150.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-8-8"L1	285.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-10-12"L1	655.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-11-8"L1	15.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-12-6"L1	65.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-16-8"L1	10.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-17-8"L1	680.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-27-6"L1	15.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-28-8"L1	255.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	25.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-7-12"L1	105.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-28-8"L1	450.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-31-8"L1	380.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-33-8"L1	125.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-34-10"L1	140.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4-8"L1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"L1	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-7-8"L1	100.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-9-8"L1	655.00 LNFT			.00	
PROCESS WATER DEMO	TW-80-12"W	25.00 LNFT			.00	
RAW WATER DEMO	RW-3-8"A	90.00 LNFT			.00	

000587

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
SANITARY SEWER DEMO	SN-1-6"M1	300.00 LNFT		.00		
SANITARY SEWER DEMO	SN-1J-6"M1	240.00 LNFT		.00		
SANITARY SEWER DEMO	SN-34-6"C1	160.00 LNFT		.00		
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	6.15	12.30	.69
CONTAMINATED SEWER DEMO	CE-.5"T	20.00 LNFT		.00		
CONTAMINATED SEWER DEMO	CE-2" W/ .5" TRACER	145.00 LNFT		.00		
CONTAMINATED SEWER DEMO	CE-2"T	20.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR - 16-2"W	25.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-15-2"W	25.00 LNFT		.00		
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	39.79	79.59	2.85
CONTAMINATED SEWER DEMO	CE-NO SIZE	70.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR-12-4"W	110.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-9-4"W	50.00 LNFT		.00		
SUMP LIQUOR DEMO	SL-4-1181-4"	150.00 LNFT		.00		
PIPING	PIPING (OVER 4")	BELOW GRADE	C	684.87	1369.73	30.25
COOLING WATER RETURN DEMO	WR - 6-24"W	150.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR-138-6"	460.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR-4-6"W	115.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR-8"	45.00 LNFT		.00		
COOLING WATER RETURN DEMO	WR-9-6"W	50.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-1-24"W	230.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-10"W	50.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-138-6"	350.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-7-10"C1	70.00 LNFT		.00		
COOLING WATER SUPPLY DEMO	WS-9-6"W	115.00 LNFT		.00		
CONCRETE	CONCRETE	BELOW GRADE	E	9990.56	12987.72	749.29
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'11"X2'3"	12.78 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'4"X8"	8.56 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'6"	4.72 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X1'	1.30 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X1'8"	70.58 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X6"	12.31 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'6"X2'4"	25.93 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	41.05 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X1'8"	1.85 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'11"X2'4"	144.47 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'6"X2'4"	42.78 CUYD		.00		
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	3.70 CUYD		.00		
PIPING	CLAY PIPING	BELOW GRADE	E	572.94	744.82	40.11
LOW PRESSURE FIRE LINE DEMO	DW-10-10"N1	60.00 LNFT		.00		
SANITARY SEWER DEMO	SN-110-4"	485.00 LNFT		.00		
SANITARY SEWER DEMO	SN-6A-6"N1	180.00 LNFT		.00		
STORM SEWER DEMO	ST-10"N1	340.00 LNFT		.00		
STORM SEWER DEMO	ST-12"VCP	105.00 LNFT		.00		
STORM SEWER DEMO	ST-16"Y	10.00 LNFT		.00		
STORM SEWER DEMO	ST-3"	25.00 LNFT		.00		
STORM SEWER DEMO	ST-3"CI	95.00 LNFT		.00		
STORM SEWER DEMO	ST-4"	15.00 LNFT		.00		

Source: GRID 11 BUILDING 12, 19, 20 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STORM SEWER DEMO	ST-4" ENCASED 10"X10" DRISCO PIPE	140.00 LNFT			.00		
STORM SEWER DEMO	ST-4"N1	485.00 LNFT			.00		
STORM SEWER DEMO	ST-4"VCP	110.00 LNFT			.00		
STORM SEWER DEMO	ST-6"	165.00 LNFT			.00		
STORM SEWER DEMO	ST-6" DRAIN TILE	2225.00 LNFT			.00		
STORM SEWER DEMO	ST-6"CI	95.00 LNFT			.00		
STORM SEWER DEMO	ST-6"N1	1055.00 LNFT			.00		
STORM SEWER DEMO	ST-6"VCP	90.00 LNFT			.00		
STORM SEWER DEMO	ST-6D-15"N1	170.00 LNFT			.00		
STORM SEWER DEMO	ST-6D-18"N1	285.00 LNFT			.00		
STORM SEWER DEMO	ST-6O-12"N1	150.00 LNFT			.00		
STORM SEWER DEMO	ST-8"	55.00 LNFT			.00		
STORM SEWER DEMO	ST-8" CONCRETE PIPE	10.00 LNFT			.00		
STORM SEWER DEMO	ST-8" CULVERT	45.00 LNFT			.00		
STORM SEWER DEMO	ST-8"N1	355.00 LNFT			.00		
ELECTRICAL	FEEDER CABLE	BELOW GRADE		G	34.35	68.69	9.86
FEEDER CABLE DEMO	FEEDER CABLE	2179.00 LNFT			.00		
ELECTRICAL	PVC CONDUIT	BELOW GRADE		I	12.49	24.98	.41
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	75.00 LNFT			.00		
ELECTRICAL GROUND DEMO	#2 GROUND	325.00 LNFT			.00		
ELECTRICAL WIRING DEMO	LIGHTING	1890.00 LNFT			.00		
WOOD	WOOD	BELOW GRADE		I	1098.04	2196.08	16.47
RAIL TRACK DEMO	RAIL ROAD TIES	1098.04 CUFT			.00		

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Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	16.76	33.51	1.89
DEIONIZED FEED DEMO	DF-2-2"W	315.00 LNFT			.00	
FUEL GAS DEMO	FG-10-1.5"V	40.00 LNFT			.00	
LIVE STEAM DEMO	LS - 24-2"S	110.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-2-2"W	110.00 LNFT			.00	
VENT LINE DEMO	VE-1091-UB-2"	20.00 LNFT			.00	
VENT LINE DEMO	VE-1092-UB-2"	5.00 LNFT			.00	
VENT LINE DEMO	VE-1093-UB-2"	15.00 LNFT			.00	
VENT LINE DEMO	VE-1094-UB-2"	5.00 LNFT			.00	
VENT LINE DEMO	VE-1095-UB-2"	20.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	26.18	52.36	1.88
LOW PRESSURE FIRE LINE DEMO	DW-1	160.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-27-3"W	90.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1166.58	2333.15	51.52
FUEL GAS DEMO	FG-1-6"W	300.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-11-8"L1	205.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"	440.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-27-6"L1	50.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	50.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4-8"L1	755.00 LNFT			.00	
PROCESS WATER DEMO	TW-5-6"W	350.00 LNFT			.00	
SANITARY SEWER DEMO	SN-1E-6"M1	125.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6-6"M1	80.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6A-6"M1	30.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6B-6"M1	65.00 LNFT			.00	
SANITARY SEWER DEMO	SN-E25-4-6"M1	205.00 LNFT			.00	
STORM SEWER DEMO	ST-8" STEEL	130.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	353.95	707.90	15.63
COOLING WATER RETURN DEMO	WR-1-12"W	300.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-11-10"W	55.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-14-6"W	70.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-11-10"W	50.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-12-6"W	70.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-3-12"W	300.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	6882.22	8946.89	516.17
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X1'8"	12.71 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'	105.56 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'2"	122.56 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	14.07 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	333.15	433.10	23.32
STORM SEWER DEMO	ST-(64-4)-4-6"N1	175.00 LNFT			.00	
STORM SEWER DEMO	ST-(64-4)-6-4"N1	40.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	215.00 LNFT			.00	
STORM SEWER DEMO	ST-13-12"N1	275.00 LNFT			.00	
STORM SEWER DEMO	ST-13-15"N1	250.00 LNFT			.00	
STORM SEWER DEMO	ST-36"VCP	150.00 LNFT			.00	
STORM SEWER DEMO	ST-4"N1	65.00 LNFT			.00	

Source: GRID 12 BUILDING 5 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Bulked Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STORM SEWER DEMO	ST-4-36"N1	150.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	680.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	840.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	335.00 LNFT			.00	
STORM SEWER DEMO	TRENCH LINE	450.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-3-12"N1	300.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	29.24	58.48	8.39
FEEDER CABLE DEMO	FEEDER CABLE	1855.00 LNFT			.00	
PIPING	PVC PIPING	BELOW GRADE	I	77.67	155.33	.33
STORM SEWER DEMO	ST-36"PVC	60.00 LNFT			.00	
STORM SEWER DEMO	ST-6"PVC SCHED. 40	540.00 LNFT			.00	
STORM SEWER DEMO	ST-8" PVC	290.00 LNFT			.00	

Source: GRID 13 BUILDING 4, 7 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	22.51	45.03	2.54
DEIONIZED FEED DEMO	DF-2-2"W	350.00 LNFT			.00	
FUEL GAS DEMO	FG-1-2"-03	185.00 LNFT			.00	
FUEL GAS DEMO	FG-9-2"W	215.00 LNFT			.00	
LIVE STEAM DEMO	LS-23-2"S	55.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-5-2"W	55.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	79.59	159.17	5.70
LOW PRESSURE FIRE LINE DEMO	DW-1-3"-06	185.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-41-3"L1	10.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-42-3"L1	55.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-3"-01	185.00 LNFT			.00	
PROCESS WATER DEMO	TW-20-4"L1	35.00 LNFT			.00	
PROCESS WATER DEMO	TW-4-4"W	110.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-4-3"W	180.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1101.65	2201.30	48.66
FUEL GAS DEMO	FG-1-6"W	350.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-14-10"L1	175.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-26-10"L1	120.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-27-6"L1	30.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	205.00 LNFT			.00	
LIVE STEAM DEMO	LS-2-6"S	180.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-26-6"W	110.00 LNFT			.00	
PROCESS WATER DEMO	TW-3-8"W	350.00 LNFT			.00	
SANITARY SEWER DEMO	SN-5-8"M1	225.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"-91	65.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"-92	290.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"CI	35.00 LNFT			.00	
STORM SEWER DEMO	ST-12"CMP	35.00 LNFT			.00	
STORM SEWER DEMO	ST-4-36"W	350.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI	40.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI	70.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	3.67	7.33	.41
COOLING WATER RETURN DEMO	WR-E22-16-2"W	35.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-15-2"W	35.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT5-2"W	70.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	38.75	77.49	2.78
COOLING WATER RETURN DEMO	WR-1-4"-01	185.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-1-4"-01	185.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	477.52	955.04	21.09
COOLING WATER RETURN DEMO	WR-1-12"W	350.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-7-6"W	220.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-3-12"W	350.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-4-6"W	220.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	20295.69	26384.40	1522.18
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'10"X1'8"	10.65 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X1'9"	26.68 CUYD			.00	

Source: GRID 13 BUILDING 4, 7 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	179.25 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'0"	369.44 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'2"	129.99 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'X2'4"	19.01 CUYD			.00	
STORM SEWER DEMO	TRENCH 12"X24"	16.67 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	329.34	428.14	23.05
SANITARY SEWER DEMO	SN-36-6"N1	165.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	395.00 LNFT			.00	
STORM SEWER DEMO	ST-14-12"N1	320.00 LNFT			.00	
STORM SEWER DEMO	ST-14-15"N1	230.00 LNFT			.00	
STORM SEWER DEMO	ST-3"	5.00 LNFT			.00	
STORM SEWER DEMO	ST-3-12"N1	35.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	100.00 LNFT			.00	
STORM SEWER DEMO	ST-4"DI	20.00 LNFT			.00	
STORM SEWER DEMO	ST-4"N1	210.00 LNFT			.00	
STORM SEWER DEMO	ST-4-12"N1	365.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	520.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	695.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	275.00 LNFT			.00	
STORM SEWER DEMO	ST-6"VC DRAIN	150.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	85.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	310.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	64.17	128.34	18.42
FEEDER CABLE DEMO	FEEDER CABLE	4071.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	9.54	19.09	.31
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	70.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	1680.00 LNFT			.00	

Source: GRID 14 BUILDING 11, 14, 28, 53 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	14.56	29.13	4.18
ELECTRICAL WIRING DEMO	(2)PR D.B.	205.00 LNFT			.00	
ELECTRICAL WIRING DEMO	100 PR	130.00 LNFT			.00	
ELECTRICAL WIRING DEMO	D.B. CABLE	245.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	2050.00 LNFT			.00	
ELECTRICAL WIRING DEMO	PHONE LINES	40.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	131.16	262.32	14.78
DEIONIZED WATER DEMO	PW-1-1"P1	120.00 LNFT			.00	
LIVE STEAM DEMO	LS-1.5"	40.00 LNFT			.00	
LIVE STEAM DEMO	LS-2"	860.00 LNFT			.00	
LIVE STEAM DEMO	LS-24-2"S	405.00 LNFT			.00	
LIVE STEAM DEMO	LS-E22-2-2"W	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-.75"	345.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1"	485.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	25.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2" COPPER	105.00 LNFT			.00	
PIPING DEMO	INSTRUMENT AIR LINE	60.00 LNFT			.00	
PIPING DEMO	SA-1"	190.00 LNFT			.00	
PIPING DEMO	SA-E22-1-2"W	940.00 LNFT			.00	
PIPING DEMO	SA-E22-2-1"W	70.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1.5"	50.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-2"	850.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-2-2"W	405.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-E22-2-2"W	30.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	326.73	653.45	23.40
HIGH PRESSURE FIRE LINE DEMO	FQ1-4"	20.00 LNFT			.00	
LIVE STEAM DEMO	LS-2-6"S	70.00 LNFT			.00	
LIVE STEAM DEMO	LS-4"	165.00 LNFT			.00	
LIVE STEAM DEMO	LS-NO SIZE	880.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	235.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-E22-1-4"L1	120.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-E22-5-4"L1	90.00 LNFT			.00	
PIPING DEMO	AW-4"	110.00 LNFT			.00	
PIPING DEMO	UNIDENTIFIED LINE	190.00 LNFT			.00	
PROCESS WATER DEMO	TW-9-3"W	125.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-3"	165.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-4-3"W	70.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-NO SIZE	880.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2745.75	5491.50	121.27
FUEL GAS DEMO	FG-2-6"V	125.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"	45.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	460.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"L1	530.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-7-12"L1	990.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	155.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-17-8"L1	450.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-18-10"L1	20.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-19-6"L1	130.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4-8"L1	35.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
LOW PRESSURE FIRE LINE DEMO	DW-6"	395.00	LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-7-8"L1	775.00	LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-E22-2-6"	235.00	LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-E22-6-6"	280.00	LNFT			.00	
PROCESS WATER DEMO	TW-8"	125.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1-10"M1	160.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1-12"M1	150.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1-15"M1	370.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1-8"M1	100.00	LNFT			.00	
SANITARY SEWER DEMO	SN-10-6"M1	410.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1B-6"M1	30.00	LNFT			.00	
SANITARY SEWER DEMO	SN-7H-6"M1	135.00	LNFT			.00	
SANITARY SEWER DEMO	SN-7R-6"M1	135.00	LNFT			.00	
SANITARY SEWER DEMO	SN-E25-1-6"M1	150.00	LNFT			.00	
SANITARY SEWER DEMO	SN-E25-6-8"M1	95.00	LNFT			.00	
STORM SEWER DEMO	ST-6"L1	30.00	LNFT			.00	
STORM SEWER DEMO	ST-TJ-6"M1	40.00	LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE		C	18.85	37.70	1.35
COOLING WATER RETURN DEMO	WR (NO DESIGNATION)	20.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-E22-2-3"W	70.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS (NO DESIGNATION)	20.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-2-3"W	70.00	LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE		C	1384.39	2768.79	61.14
CONTAMINATED SEWER DEMO	CE-10"	40.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-6-6"W	140.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-E22-1-6"W	1000.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-E22-4-6"W	70.00	LNFT			.00	
COOLING WATER RETURN DEMO	WR-E22-5-8"W	40.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-6-6"W	140.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-1-6"W	1000.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-4-6"W	70.00	LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-5-8"W	40.00	LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-1-12"W	635.00	LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-6"	130.00	LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE		E	4697.22	6106.39	352.29
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X2'6"	32.41	CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'1"X2'2"	15.05	CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'6"X3'2"	18.66	CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X2'	13.33	CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 8"X11"	4.53	CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	90.00	CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE		E	605.45	787.09	42.38
PIPING DEMO	4" V.C. DRAIN	135.00	LNFT			.00	
SANITARY SEWER DEMO	SN-10"	290.00	LNFT			.00	
SANITARY SEWER DEMO	SN-12"	120.00	LNFT			.00	
SANITARY SEWER DEMO	SN-1E-6"N1	30.00	LNFT			.00	
SANITARY SEWER DEMO	SN-4"	120.00	LNFT			.00	
SANITARY SEWER DEMO	SN-6"	200.00	LNFT			.00	
SANITARY SEWER DEMO	SN-8"	400.00	LNFT			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
SANITARY SEWER DEMO	SN-E25-6-6"N1	125.00 LNFT				.00	
STORM SEWER DEMO	ST-10"	255.00 LNFT				.00	
STORM SEWER DEMO	ST-10"N1	3.00 LNFT				.00	
STORM SEWER DEMO	ST-12"	315.00 LNFT				.00	
STORM SEWER DEMO	ST-13-15"N1	40.00 LNFT				.00	
STORM SEWER DEMO	ST-14-15"N1	20.00 LNFT				.00	
STORM SEWER DEMO	ST-15-21"N1	200.00 LNFT				.00	
STORM SEWER DEMO	ST-15-24"N1	390.00 LNFT				.00	
STORM SEWER DEMO	ST-15-30"N1	110.00 LNFT				.00	
STORM SEWER DEMO	ST-16-24"N1	100.00 LNFT				.00	
STORM SEWER DEMO	ST-16A-10"N1	270.00 LNFT				.00	
STORM SEWER DEMO	ST-18-24"N1	130.00 LNFT				.00	
STORM SEWER DEMO	ST-20-21"N1	350.00 LNFT				.00	
STORM SEWER DEMO	ST-20-30"N1	330.00 LNFT				.00	
STORM SEWER DEMO	ST-20A-12"N1	240.00 LNFT				.00	
STORM SEWER DEMO	ST-20A-15"N1	240.00 LNFT				.00	
STORM SEWER DEMO	ST-3"	210.00 LNFT				.00	
STORM SEWER DEMO	ST-4"	20.00 LNFT				.00	
STORM SEWER DEMO	ST-6"	1045.00 LNFT				.00	
STORM SEWER DEMO	ST-6"N1	80.00 LNFT				.00	
STORM SEWER DEMO	ST-60"N1	425.00 LNFT				.00	
STORM SEWER DEMO	ST-8"	115.00 LNFT				.00	
STORM SEWER DEMO	ST-8"N1	120.00 LNFT				.00	
STORM SEWER DEMO	ST-E22-10-6"N1	60.00 LNFT				.00	
STORM SEWER DEMO	ST-E22-13-10"	30.00 LNFT				.00	
STORM SEWER DEMO	ST-E22-14-4"N1	40.00 LNFT				.00	
STORM SEWER DEMO	ST-E22-7-6"N1	50.00 LNFT				.00	
SUB-SURFACE DRAINAGE DEMO	SD-2-15"N1	525.00 LNFT				.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G		83.23	166.45	23.89
FEEDER CABLE DEMO	FEEDER CABLE	5280.00 LNFT				.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I		12.49	24.98	.41
ELECTRICAL CONDUIT DEMO	(2)3" ELECTRICAL CONDUIT	205.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(20)-4"C	45.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(3)-2"PVC	230.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(3)-4" ELECTRICAL CONDUIT	40.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(3)-5" ELECTRICAL CONDUIT	115.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(3)3" ELECTRICAL CONDUIT	285.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(4)3" ELECTRICAL CONDUIT	110.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	(6) 4" ELECTRICAL CONDUIT	40.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	1 1/2" ELECTRICAL CONDUIT	205.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	1 1/4" ELECTRICAL CONDUIT	100.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	40.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	380.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	70.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	110.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	4" ELECTRICAL CONDUIT	160.00 LNFT				.00	
ELECTRICAL CONDUIT DEMO	NO SIZE	155.00 LNFT				.00	
PIPING	PVC PIPING	BELOW GRADE	I		36.22	72.43	.16
SANITARY SEWER DEMO	SN-4"PVC	195.00 LNFT				.00	
SANITARY SEWER DEMO	SN-6"PVC	55.00 LNFT				.00	

Source: GRID 14 BUILDING 11, 14, 28, 53 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
SANITARY SEWER DEMO	SN-8"PVC	30.00 LNFT			.00	
STORM SEWER DEMO	ST-8"PVC	135.00 LNFT			.00	

000597

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	14.21	28.42	4.08
ELECTRICAL CONDUIT DEMO	4" TELEPHONE CONDUIT	500.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	4"C-PVC ALARM	250.00 LNFT			.00	
ELECTRICAL WIRING DEMO	CABLE (2) PR	940.00 LNFT			.00	
ELECTRICAL WIRING DEMO	CONTROL CIRCUIT,220 V	315.00 LNFT			.00	
ELECTRICAL WIRING DEMO	DIRECT BURIAL PHONE	330.00 LNFT			.00	
ELECTRICAL WIRING DEMO	TRENCH	270.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	48.17	96.34	3.45
HIGH PRESSURE FIRE LINE DEMO	FQ NO SIZE	50.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	270.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	140.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	201.06	402.12	8.88
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"	400.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8"	80.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	230.03	299.03	16.10
STORM SEWER DEMO	ST-10"RCP	100.00 LNFT			.00	
STORM SEWER DEMO	ST-12"RCP	930.00 LNFT			.00	
STORM SEWER DEMO	ST-15"RCP	105.00 LNFT			.00	
STORM SEWER DEMO	ST-18"RCP	270.00 LNFT			.00	
STORM SEWER DEMO	ST-30"RCP	105.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	400.00 LNFT			.00	
STORM SEWER DEMO	ST-60"RCP	400.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-1-18"N1	400.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	85.34	170.68	24.49
FEEDER CABLE DEMO	FEEDER CABLE	5414.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	12.98	25.96	.42
ELECTRICAL CONDUIT DEMO	(2)1.5" ELECTRICAL CONDUIT	1020.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	(3)1" ELECTRICAL CONDUIT	670.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	(3)2" ELECTRICAL CONDUIT	400.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	290.00 LNFT			.00	
PIPING	PVC PIPING	BELOW GRADE	I	48.87	97.74	.21
STORM SEWER DEMO	ST-4"PVC	50.00 LNFT			.00	
STORM SEWER DEMO	ST-6"PVC	510.00 LNFT			.00	

Source: GRID 16 BUILDING 60, 61, 62 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	132.24	2208.49	32.40
RAIL TRACK DEMO	RAIL TRACK	32.40 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	1.74	7.47	1.07
ELECTRICAL WIRING DEMO	TRENCH	685.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	6.94	13.88	.78
ELECTRICAL CONDUIT DEMO	(2) #6 AL IN TRENCH	65.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-1000-2"S1	200.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	157.08	314.16	6.94
LOW PRESSURE FIRE LINE DEMO	DW-8-6"L1	165.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-8"L1	210.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	2584.00	3359.20	193.80
STORM SEWER DEMO	TRENCH(12"X24")	95.70 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	281.55	366.01	19.71
STORM SEWER DEMO	ST-6" DRAIN TILE	280.00 LNFT			.00	
STORM SEWER DEMO	ST-6"-RCP(PROPOSED)	2160.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	125.00 LNFT			.00	
STORM SEWER DEMO	ST-6"VCP	140.00 LNFT			.00	
STORM SEWER DEMO	ST-60-10"N1	85.00 LNFT			.00	
STORM SEWER DEMO	ST-60-6"N1	72.00 LNFT			.00	
STORM SEWER DEMO	ST-60-8"N1	40.00 LNFT			.00	
STORM SEWER DEMO	ST-8-10"N1	120.00 LNFT			.00	
STORM SEWER DEMO	ST-8-6"N1	115.00 LNFT			.00	
STORM SEWER DEMO	ST-8-8"N1	120.00 LNFT			.00	
STORM SEWER DEMO	ST-9-10"N1	60.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	13.52	27.05	3.88
FEEDER CABLE DEMO	FEEDER CABLE	858.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.38	.76	.01
ELECTRICAL CONDUIT DEMO	(2)-2" ELECTRICAL CONDUIT	70.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	2445.12	4890.24	36.68
RAIL TRACK DEMO	RAIL ROAD TIES	2445.12 CUFT			.00	

000593

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	3204.08	53508.16	785.00
RAIL TRACK DEMO	RAIL TRACK	785.00 TONS			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	8.90	17.80	.64
DEIONIZED FEED DEMO	DF-1-4"W	85.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	975.99	1951.97	43.11
HIGH PRESSURE FIRE LINE DEMO	FQ1-4-12"L1	680.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"L1	40.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-8"L1	680.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-5-8"L1	330.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6"L1	95.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-8"L1	155.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-8"W	40.00 LNFT			.00	
PROCESS WATER DEMO	TW-17-10"W	85.00 LNFT			.00	
PROCESS WATER DEMO	WS/TW-16-8"W	45.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3-6"M1	180.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1871.25	2432.62	140.34
ELECTRICAL CONDUIT DEMO	CONCRETE ENCASEMENT	67.22 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 6"X1'3"	2.08 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	263.72	342.84	18.46
STORM SEWER DEMO	ST-10"-N1	90.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	500.00 LNFT			.00	
STORM SEWER DEMO	ST-6-15"N1	315.00 LNFT			.00	
STORM SEWER DEMO	ST-6C-10"N1	135.00 LNFT			.00	
STORM SEWER DEMO	ST-7-10"N1	150.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	20.00 LNFT			.00	
STORM SEWER DEMO	ST-8-10"N1	270.00 LNFT			.00	
STORM SEWER DEMO	ST-8-12"N1	205.00 LNFT			.00	
STORM SEWER DEMO	ST-8-15"N1	345.00 LNFT			.00	
STORM SEWER DEMO	ST-9-10"N1	410.00 LNFT			.00	
STORM SEWER DEMO	ST-9-12"	220.00 LNFT			.00	
STORM SEWER DEMO	ST-E17-1-10"N1	110.00 LNFT			.00	
STORM SEWER DEMO	ST-E17-2-8"N1	100.00 LNFT			.00	
STORM SEWER DEMO	ST-E17-3-10"N1	110.00 LNFT			.00	
STORM SEWER DEMO	ST-E17-5-10"N1	70.00 LNFT			.00	
STORM SEWER DEMO	ST-E17-6-10"N1	57.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	34.33	68.66	9.85
FEEDER CABLE DEMO	FEEDER CABLE	2178.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	11.13	22.25	.36
ELECTRICAL CONDUIT DEMO	2 1/2" ELECTRICAL CONDUIT	225.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" FIBER CONDUIT	1815.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	888.62	1777.24	13.33
RAIL TRACK DEMO	RAIL ROAD TIES	888.62 CUFT			.00	

000600

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	91.84	1533.67	22.50
RAIL TRACK DEMO	RAIL TRACK	22.50 TONS			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	69.64	139.28	4.99
DEIONIZED FEED DEMO	DF-1-4"W	625.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-4"L1	40.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2048.32	4096.63	90.47
DEIONIZED FEED DEMO	DF-5-8"L1	625.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"	85.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-10-12"L1	245.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-26-8"L1	75.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-33-8"L1	55.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-5-8"L1	675.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-9-8"L1	245.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-10"W	490.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-8"L1	135.00 LNFT			.00	
PROCESS WATER DEMO	TW-12-6"	50.00 LNFT			.00	
PROCESS WATER DEMO	TW-17-10"W	640.00 LNFT			.00	
RAW WATER DEMO	RW-4-12"L1	830.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3-6"M1	640.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4A-6"N1	100.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	159.17	318.35	11.40
FILTRATE OR EFFLUENT DEMO	FT-3-3"W	1520.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	356.05	712.09	15.73
COOLING WATER RETURN DEMO	WR-6-24"W	425.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-1-24"W	425.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	62154.58	80800.96	4661.59
ELECTRICAL CONDUIT DEMO	CONCRETE ENCASEMENT	14.81 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'2"X1'10"	8.32 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	1.11 CUYD			.00	
STORM SEWER DEMO	TRENCH(2'X3')	197.78 CUYD			.00	
STORM SEWER DEMO	TRENCH(3'X9')	2080.00 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	209.23	272.00	14.65
STORM SEWER DEMO	ST-1-5"N1	30.00 LNFT			.00	
STORM SEWER DEMO	ST-10"	20.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	120.00 LNFT			.00	
STORM SEWER DEMO	ST-12"VCP	25.00 LNFT			.00	
STORM SEWER DEMO	ST-16-36"N1	200.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	320.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	800.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	190.00 LNFT			.00	
STORM SEWER DEMO	ST-6-24"N1	440.00 LNFT			.00	
STORM SEWER DEMO	ST-7-10"	65.00 LNFT			.00	
STORM SEWER DEMO	ST-7-12"	170.00 LNFT			.00	
STORM SEWER DEMO	ST-7-15"N1	20.00 LNFT			.00	
STORM SEWER DEMO	ST-E22-4-4"N1	40.00 LNFT			.00	
STORM SEWER DEMO	ST-E22-6-6"N1	25.00 LNFT			.00	

Source: GRID 18 BUILDING 30 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	13.32	26.64	3.82
FEEDER CABLE DEMO	FEEDER CABLE	845.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	3.63	7.25	.12
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	265.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	ELECTRICAL CONDUIT	400.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	1698.00	3396.00	25.47
RAIL TRACK DEMO	RAIL ROAD TIES	1698.00 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	30.92	516.34	7.58
RAIL TRACK DEMO	RAIL TRACK	7.58 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	8.02	16.04	2.30
ELECTRICAL WIRING DEMO	LIGHTING	1470.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	21.34	42.67	2.40
DEIONIZED FEED DEMO	DF-2-2"W	50.00 LNFT			.00	
DEIONIZED WATER DEMO	PW-700-1"P1	200.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"-105	75.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-E3-601-2"Q	100.00 LNFT			.00	
PIPING DEMO	DC-1-2"A1	35.00 LNFT			.00	
PIPING DEMO	P-1-1"	220.00 LNFT			.00	
PROCESS WATER DEMO	TW-2"	30.00 LNFT			.00	
PROCESS WATER DEMO	TW-706-2"W	45.00 LNFT			.00	
PROCESS WATER DEMO	TW-708-2"W	60.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	343.48	686.96	24.60
DEIONIZED FEED DEMO	DF-1-4"W	200.00 LNFT			.00	
DEIONIZED FEED DEMO	DF-700-4"W	310.00 LNFT			.00	
FUEL GAS DEMO	FG-12-3"V	495.00 LNFT			.00	
FUEL GAS DEMO	FG-700-4"V	385.00 LNFT			.00	
FUEL GAS DEMO	FG-701-3"V	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-3"-06	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-701-3"L1	160.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-705-3"L1	15.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-707-3"L1	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-709-3"W	55.00 LNFT			.00	
PIPING DEMO	DC-E3-601-4"A1	15.00 LNFT			.00	
PIPING DEMO	XJ-306-3"A1	70.00 LNFT			.00	
PIPING DEMO	XJ-312-3"A1	70.00 LNFT			.00	
PROCESS WATER DEMO	TW-1-3"01	50.00 LNFT			.00	
PROCESS WATER DEMO	TW-103-3"	75.00 LNFT			.00	
PROCESS WATER DEMO	TW-11-4"W	55.00 LNFT			.00	
PROCESS WATER DEMO	TW-12-3"W	430.00 LNFT			.00	
PROCESS WATER DEMO	TW-701-3"W	35.00 LNFT			.00	
PROCESS WATER DEMO	TW-703-4"W	60.00 LNFT			.00	
PROCESS WATER DEMO	TW-704-3"W	40.00 LNFT			.00	
PROCESS WATER DEMO	TW-707-4"W	60.00 LNFT			.00	
PROCESS WATER DEMO	TW-709-4"W	100.00 LNFT			.00	
PROCESS WATER DEMO	TW-712-3"W	305.00 LNFT			.00	
PROCESS WATER DEMO	TW-712-4"W	55.00 LNFT			.00	
PROCESS WATER DEMO	TW-E3-601-3"W	100.00 LNFT			.00	
STORM SEWER DEMO	ST-3" DRISCO	15.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	3124.83	6249.67	138.01
FUEL GAS DEMO	FG-1-6"V	55.00 LNFT			.00	
FUEL GAS DEMO	FG-6-6"V	610.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-18-6"L1	300.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-19-6"L1	40.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-23-6"L1	90.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-28-6"L1	240.00 LNFT			.00	

000603

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS / Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
HIGH PRESSURE FIRE LINE DEMO	FQ-700-6"L1	205.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-12-12"L1	190.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-13-12"L1	700.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-14-10"L1	75.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-15-8"L1	30.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-705-6"L1	45.00	LNFT	.00		
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"-105	220.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-26-6"L1	55.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-5-8"L1	425.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-700-8"L1	645.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-700-8"W	200.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-704-6"L1	115.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-705-6"L1	40.00	LNFT	.00		
LOW PRESSURE FIRE LINE DEMO	DW-709-6"W	115.00	LNFT	.00		
PROCESS WATER DEMO	TW-1-10"W	210.00	LNFT	.00		
PROCESS WATER DEMO	TW-17-10"W	210.00	LNFT	.00		
PROCESS WATER DEMO	TW-2-8"W	215.00	LNFT	.00		
PROCESS WATER DEMO	TW-3-8"W	45.00	LNFT	.00		
PROCESS WATER DEMO	TW-65-10"W	70.00	LNFT	.00		
PROCESS WATER DEMO	TW-66-10"W	70.00	LNFT	.00		
PROCESS WATER DEMO	TW-700-10"W	445.00	LNFT	.00		
PROCESS WATER DEMO	TW-705-10"W	325.00	LNFT	.00		
SANITARY SEWER DEMO	SN-3-6"M1	450.00	LNFT	.00		
SANITARY SEWER DEMO	SN-4-8"M1	265.00	LNFT	.00		
SANITARY SEWER DEMO	SN-48-6"M1	30.00	LNFT	.00		
SANITARY SEWER DEMO	SN-4A-6"M1	30.00	LNFT	.00		
SANITARY SEWER DEMO	SN-4C-6"M1	30.00	LNFT	.00		
SANITARY SEWER DEMO	SN-5-8"M1	30.00	LNFT	.00		
STORM SEWER DEMO	ST-10"CI	215.00	LNFT	.00		
STORM SEWER DEMO	ST-16-36"W	425.00	LNFT	.00		
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	.52	1.05	.06
COOLING WATER RETURN DEMO	WR-706-2"W	20.00	LNFT	.00		
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	153.94	307.88	11.03
COOLING WATER RETURN DEMO	WR-1-4"01	35.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-2-401-4"W	25.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-8-4"W	490.00	LNFT	.00		
COOLING WATER SUPPLY DEMO	WS-1-4"01	40.00	LNFT	.00		
COOLING WATER SUPPLY DEMO	WS-2-401-4"W	25.00	LNFT	.00		
COOLING WATER SUPPLY DEMO	WS-8-4"W	495.00	LNFT	.00		
FILTRATE OR EFFLUENT DEMO	FT-3-3"W	270.00	LNFT	.00		
FILTRATE OR EFFLUENT DEMO	FT-4"M1	90.00	LNFT	.00		
PIPING	PIPING (OVER 4")	BELOW GRADE	C	2372.95	4745.90	104.80
COOLING WATER RETURN DEMO	WR-(15-210)-8"L1	90.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-1-12"W	35.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-138-20"W	260.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-20"W	120.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-3-12"W	265.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-6-24"W	425.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-700-24"W	170.00	LNFT	.00		
COOLING WATER RETURN DEMO	WR-701-14"W	65.00	LNFT	.00		

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
COOLING WATER RETURN DEMO	WR-704-14"W	20.00		LNFT			.00
COOLING WATER RETURN DEMO	WR-704-6"W	65.00		LNFT			.00
COOLING WATER RETURN DEMO	WR-707-6"W	100.00		LNFT			.00
COOLING WATER RETURN DEMO	WR-8"	290.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-(22-16)-10"W	330.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-1-24"W	40.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-128-20"W	250.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-2-24"W	385.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-3-12"W	265.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-700-14"W	20.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-700-20"W	170.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-700-24"W	175.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-702-14"W	70.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-704-6"W	65.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-706-10"W	25.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-708-6"W	100.00		LNFT			.00
FILTRATE OR EFFLUENT DEMO	FT-105-6"	100.00		LNFT			.00
FILTRATE OR EFFLUENT DEMO	FT-2-8"W	425.00		LNFT			.00
FILTRATE OR EFFLUENT DEMO	FT-8"W	160.00		LNFT			.00
FILTRATE OR EFFLUENT DEMO	FT5-18-1000-6"W	460.00		LNFT			.00
SUMP LIQUOR DEMO	SL-18-1000-6"W	545.00		LNFT			.00
SUMP LIQUOR DEMO	SL-713-6"W	30.00		LNFT			.00
SUMP LIQUOR DEMO	SL-714-6"W	55.00		LNFT			.00
SUMP LIQUOR DEMO	SL-720-6"W	90.00		LNFT			.00
CONCRETE	CONCRETE	BELOW GRADE		E	16357.29	21264.48	1226.80
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'2"X1'10"	4.75		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'3"X1'2"	2.43		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'8"X1'10"	10.86		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'10"X1'8"	53.24		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'	483.80		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'3"X2'8"	33.70		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X1'6"	6.67		CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	10.37		CUYD			.00
PIPING	CLAY PIPING	BELOW GRADE		E	478.72	622.34	33.51
CONTAMINATED SEWER DEMO	CE-108-4"	45.00		LNFT			.00
CONTAMINATED SEWER DEMO	CE-2-1000-1.5"N1	140.00		LNFT			.00
COOLING WATER SUPPLY DEMO	WS-3-12"N1	40.00		LNFT			.00
SANITARY SEWER DEMO	SN-2"	45.00		LNFT			.00
SANITARY SEWER DEMO	SN-36-6"	30.00		LNFT			.00
SANITARY SEWER DEMO	SN-6"	70.00		LNFT			.00
STORM SEWER DEMO	ST-10"	310.00		LNFT			.00
STORM SEWER DEMO	ST-10"N1	1470.00		LNFT			.00
STORM SEWER DEMO	ST-10"N1 W/ RCP SLEEVE	75.00		LNFT			.00
STORM SEWER DEMO	ST-10-30"N1	90.00		LNFT			.00
STORM SEWER DEMO	ST-11-12"N1	265.00		LNFT			.00
STORM SEWER DEMO	ST-11-30"N1	295.00		LNFT			.00
STORM SEWER DEMO	ST-12"N1	60.00		LNFT			.00
STORM SEWER DEMO	ST-12"RCP	70.00		LNFT			.00
STORM SEWER DEMO	ST-17-10"N1	40.00		LNFT			.00
STORM SEWER DEMO	ST-4"	140.00		LNFT			.00
STORM SEWER DEMO	ST-4"N1	65.00		LNFT			.00

Source: GRID 19 BUILDING 2, 3 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STORM SEWER DEMO	ST-4-36"N1	20.00	LNFT		.00	
STORM SEWER DEMO	ST-6"	710.00	LNFT		.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	425.00	LNFT		.00	
STORM SEWER DEMO	ST-6"N1	810.00	LNFT		.00	
STORM SEWER DEMO	ST-6"VCP	105.00	LNFT		.00	
STORM SEWER DEMO	ST-8"N1	20.00	LNFT		.00	
STORM SEWER DEMO	ST-8"TCP	110.00	LNFT		.00	
SUB-SURFACE DRAINAGE DEMO	SD-4-12"N1	190.00	LNFT		.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	50.55	101.10	14.51
FEEDER CABLE DEMO	FEEDER CABLE	3207.00	LNFT		.00	
WOOD	WOOD	BELOW GRADE	I	571.66	1143.32	8.57
RAIL TRACK DEMO	RAIL ROAD TIES	571.66	CUFT		.00	

Source: GRID 2 BUILDING 32, 64, 65, 78 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	52.04	869.08	12.75
RAIL TRACK DEMO	RAIL TRACK	12.75 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	2.29	4.58	.66
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	420.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	26.18	52.36	1.88
LOW PRESSURE FIRE LINE DEMO	DW-4"L1	190.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-44-3"L1	60.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	848.23	1696.46	37.46
HIGH PRESSURE FIRE LINE DEMO	FQ1-5-12"L1	430.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	80.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"L1	245.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-8"L1	600.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8"L1	60.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2A-6"M1	610.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1857.71	2415.02	139.33
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'2.5"X1'8"	8.58 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'8.5"	13.29 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 10"X10"	5.53 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X1'4"	12.67 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	28.73 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	363.71	472.83	25.46
CONTAMINATED SEWER DEMO	CE-6"VCP	470.00 LNFT			.00	
STORM SEWER DEMO	ST-1-10" N1	135.00 LNFT			.00	
STORM SEWER DEMO	ST-1-15"N1	225.00 LNFT			.00	
STORM SEWER DEMO	ST-1-18"N1	140.00 LNFT			.00	
STORM SEWER DEMO	ST-10"	110.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	185.00 LNFT			.00	
STORM SEWER DEMO	ST-10"VT	280.00 LNFT			.00	
STORM SEWER DEMO	ST-12"	330.00 LNFT			.00	
STORM SEWER DEMO	ST-12"-RCP	80.00 LNFT			.00	
STORM SEWER DEMO	ST-12"N1	45.00 LNFT			.00	
STORM SEWER DEMO	ST-12"VT	160.00 LNFT			.00	
STORM SEWER DEMO	ST-15"	295.00 LNFT			.00	
STORM SEWER DEMO	ST-18-10"N1	130.00 LNFT			.00	
STORM SEWER DEMO	ST-1A-10"N1	140.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	130.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	335.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	420.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	40.00 LNFT			.00	
STORM SEWER DEMO	ST-6"VT	100.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	140.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	60.00 LNFT			.00	
STORM SEWER DEMO	ST-8"VT	335.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	27.98	55.96	8.03
FEEDER CABLE DEMO	FEEDER CABLE	1775.00 LNFT			.00	

000007

Source: GRID 2 BUILDING 32, 64, 65, 78 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	7.10	4.20	.07
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL CONDUIT DEMO	(4) C IN RED CONC	135.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	100.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#2 GROUND	40.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	110.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	481.10	962.20	7.22
RAIL TRACK DEMO	RAIL ROAD TIES	481.10 CUFT			.00	

Source: GRID 20 BUILDING 8, 80 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	15.61	260.72	3.83
RAIL TRACK DEMO	RAIL TRACK	3.83 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	23.29	46.58	6.68
ELECTRICAL GROUND DEMO	#2 GROUND	1530.00 LNFT			.00	
ELECTRICAL GROUND DEMO	#4/0 GROUND	1030.00 LNFT			.00	
ELECTRICAL WIRING DEMO	BURIED ELEC. CABLE/LIGHTING	1710.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	21.60	43.20	2.43
CONDENSATE RETURN DEMO	CN-2"	30.00 LNFT			.00	
DEIONIZED FEED DEMO	PW-1-1"-L1	315.00 LNFT			.00	
FUEL GAS DEMO	FG-8-2"-V	195.00 LNFT			.00	
LIVE STEAM DEMO	LS-2"	30.00 LNFT			.00	
LIVE STEAM DEMO	LS-8-1000-2"-S1	85.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-1000-1"-Q	85.00 LNFT			.00	
PIPING DEMO	PA-8-1000-1"-W	85.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	130.38	260.75	9.34
CONDENSATE RETURN DEMO	CN-8-1000-3.5"-W	85.00 LNFT			.00	
CONDENSATE RETURN DEMO	CN-NO SIZE	60.00 LNFT			.00	
LIVE STEAM DEMO	LS-UNIDENTIFIED (AB)	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-31-4"-C1	60.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-43-3"-L1	200.00 LNFT			.00	
PROCESS WATER DEMO	TW-10-3"-W	175.00 LNFT			.00	
PROCESS WATER DEMO	TW-105-4"	105.00 LNFT			.00	
PROCESS WATER DEMO	TW-9-4"-W	315.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8-1000-4"-M1	55.00 LNFT			.00	
STORM SEWER DEMO	ST-4"-C1	115.00 LNFT			.00	
STORM SEWER DEMO	ST-4"-L1	15.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1227.31	2454.63	54.21
FUEL GAS DEMO	FG-1-6"-V	315.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"	60.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"-L1	40.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-15-6"-L1	40.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-22-8"-L1	150.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	130.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"-105	30.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"-L1	110.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-5-8"-L1	315.00 LNFT			.00	
PROCESS WATER DEMO	TW-6"	225.00 LNFT			.00	
PROCESS WATER DEMO	TW-E22-4-6"	205.00 LNFT			.00	
PROCESS WATER DEMO	TW-E22-8"-W	315.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3-8"-M1	315.00 LNFT			.00	
SANITARY SEWER DEMO	SN-3A-6"-M1	50.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8"-M1	240.00 LNFT			.00	
STORM SEWER DEMO	ST-10"-C1	10.00 LNFT			.00	
STORM SEWER DEMO	ST-12"CMP	200.00 LNFT			.00	
STORM SEWER DEMO	ST-8"C1	55.00 LNFT			.00	
STORM SEWER DEMO	ST-8-8"M2	125.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	157.08	314.16	11.25

000009

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
COOLING WATER RETURN DEMO	WR-15-4"-W	225.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-14-4"-W	220.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-3"	40.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-4"	155.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-4"-M	860.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	1336.22	2672.45	59.02
COOLING WATER RETURN DEMO	WR-(15-210)-8"-W	315.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-138-6"	65.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-4-6"-W	315.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-E22-3-12"-W	690.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-(22-16)-10"-W	415.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-138-6"	75.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-6-6"-W	315.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-E22-3-12"-W	685.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-1-12"-W	315.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	10684.58	13889.96	801.34
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'10X1'8"	5.25 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'2"X1'6"	16.25 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'5"X1'6"	5.37 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'	341.30 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'5"X2'	21.51 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'6"X8"	6.05 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	301.32	391.72	21.09
SANITARY SEWER DEMO	SN-101-4"	95.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"	25.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	455.00 LNFT			.00	
STORM SEWER DEMO	ST-16-24"-N1	145.00 LNFT			.00	
STORM SEWER DEMO	ST-16-54"N1	170.00 LNFT			.00	
STORM SEWER DEMO	ST-17-15"N1	315.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	140.00 LNFT			.00	
STORM SEWER DEMO	ST-4"N1	180.00 LNFT			.00	
STORM SEWER DEMO	ST-4"VCP	130.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	675.00 LNFT			.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	260.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	295.00 LNFT			.00	
STORM SEWER DEMO	ST-6"VCP	95.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	15.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	125.00 LNFT			.00	
STORM SEWER DEMO	ST-8-1000-6"N1	120.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-4-12"-N	310.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	55.33	110.65	15.88
FEEDER CABLE DEMO	FEEDER CABLE	3510.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	288.66	577.32	4.33
RAIL TRACK DEMO	RAIL ROAD TIES	288.66 CUFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE		B	1.09	2.18	.31
ELECTRICAL WIRING DEMO	LIGHTING	200.00 LNFT				.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE		B	21.73	43.46	2.45
DEIONIZED WATER DEMO	PW-1-1"P1	390.00 LNFT				.00	
FUEL GAS DEMO	FG-2-2"V	390.00 LNFT				.00	
FUEL GAS DEMO	FG-4-1.5V	50.00 LNFT				.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE		B	94.25	188.50	6.75
HIGH PRESSURE FIRE LINE DEMO	FQ-4-4"L1	55.00 LNFT				.00	
LOW PRESSURE FIRE LINE DEMO	DW-40-3"L1	65.00 LNFT				.00	
PROCESS WATER DEMO	TW-9-3"W	390.00 LNFT				.00	
PROCESS WATER DEMO	TW-E22-3-4"W	390.00 LNFT				.00	
PIPING	PIPING (OVER 4")	BELOW GRADE		B	1135.16	2270.32	50.14
HIGH PRESSURE FIRE LINE DEMO	FQ-12"L1	70.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-15-6"L1	20.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-5-6"L1	115.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"	110.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-6"L1	20.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"	895.00 LNFT				.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	100.00 LNFT				.00	
LOW PRESSURE FIRE LINE DEMO	DW-7-8"L1	390.00 LNFT				.00	
SANITARY SEWER DEMO	SN-1-6"M1	210.00 LNFT				.00	
SANITARY SEWER DEMO	SN-1-8"M1	180.00 LNFT				.00	
SANITARY SEWER DEMO	SN-16-8"M1	160.00 LNFT				.00	
SANITARY SEWER DEMO	SN-1H-6"M1	210.00 LNFT				.00	
SANITARY SEWER DEMO	SN-6"M1	20.00 LNFT				.00	
SANITARY SEWER DEMO	SN-E25-15-6"M1	210.00 LNFT				.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE		C	6.28	12.57	.45
CONTAMINATED SEWER DEMO	CE-4"	60.00 LNFT				.00	
PIPING	PIPING (OVER 4")	BELOW GRADE		C	494.28	988.55	21.83
CONTAMINATED SEWER DEMO	CE-6"	60.00 LNFT				.00	
COOLING WATER RETURN DEMO	WR-12"	110.00 LNFT				.00	
COOLING WATER RETURN DEMO	WR-4-6"W	390.00 LNFT				.00	
COOLING WATER RETURN DEMO	WR-E22-6-6"W	65.00 LNFT				.00	
COOLING WATER SUPPLY DEMO	WS-12"	100.00 LNFT				.00	
COOLING WATER SUPPLY DEMO	WS-6-6"W	390.00 LNFT				.00	
COOLING WATER SUPPLY DEMO	WS-E22-6-6"W	65.00 LNFT				.00	
CONCRETE	CONCRETE	BELOW GRADE		E	362.50	471.25	27.19
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'5"X1'6"	13.43 CUYD				.00	
PIPING	CLAY PIPING	BELOW GRADE		E	207.11	269.24	14.50
SANITARY SEWER DEMO	SN-4"	275.00 LNFT				.00	
SANITARY SEWER DEMO	SN-6"	100.00 LNFT				.00	
STORM SEWER DEMO	ST-10"	250.00 LNFT				.00	
STORM SEWER DEMO	ST-10"N1	330.00 LNFT				.00	
STORM SEWER DEMO	ST-12"	645.00 LNFT				.00	
STORM SEWER DEMO	ST-12"RCP	20.00 LNFT				.00	

000011

Source: GRID 21 BUILDING 15 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STORM SEWER DEMO	ST-13-24"N1	135.00 LNFT			.00	
STORM SEWER DEMO	ST-15"	35.00 LNFT			.00	
STORM SEWER DEMO	ST-18-21"N1	250.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	390.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	10.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	15.95	31.90	4.58
FEEDER CABLE DEMO	FEEDER CABLE	1012.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	1.53	3.05	.05
ELECTRICAL CONDUIT DEMO	(3) 5" ELECTRICAL CONDUIT	140.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	85.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	55.00 LNFT			.00	

Source: GRID 22 NORTHWEST CORNER OF SITE GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	84.18	1405.87	20.63
RAIL TRACK DEMO	RAIL TRACK	20.63 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	3.98	7.96	1.14
ELECTRICAL WIRING DEMO	PERIMETER ELECTRICAL TRENCH	730.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	150.80	301.59	6.66
HIGH PRESSURE FIRE LINE DEMO	FQ1-3-12"L1	100.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-4-12"L1	175.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-8"L1	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"L1	50.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	320.00	416.00	24.00
STORM SEWER DEMO	12" WIDE CONCRETE TRENCH	11.85 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	24.19	31.45	1.69
STORM SEWER DEMO	ST-12"RCP	285.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	11.46	22.92	3.29
FEEDER CABLE DEMO	FEEDER CABLE	727.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	1.42	2.84	.05
ELECTRICAL CONDUIT DEMO	(2) 2" ELECTRICAL CONDUIT	260.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	1556.50	3113.00	23.35
RAIL TRACK DEMO	RAIL ROAD TIES	1556.50 CUFT			.00	

Source: GRID 23 EAST OF BUILDING 56 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	1224.49	20448.98	300.00
RAIL TRACK DEMO	RAIL TRACK	300.00 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	1.58	3.16	.45
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	290.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	219.91	439.82	9.71
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"L1	290.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"L1	200.00 LNFT			.00	
STORM SEWER DEMO	ST-48"CMP	35.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	18.25	23.72	1.28
STORM SEWER DEMO	ST-12"	215.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	4.57	9.14	1.31
FEEDER CABLE DEMO	FEEDER CABLE	290.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	339.60	679.20	5.09
RAIL TRACK DEMO	RAIL ROAD TIES	339.60 CUFT			.00	

Source: GRID 24 BUILDING 67 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	38.57	644.14	9.45
RAIL TRACK DEMO	RAIL TRACK	9.45 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	6.27	12.54	1.80
ELECTRICAL WIRING DEMO	ELECTRICAL TELEPHONE POLE	390.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	650.00 LNFT			.00	
ELECTRICAL WIRING DEMO	TELEPHONE	110.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	645.07	1290.15	28.49
HIGH PRESSURE FIRE LINE DEMO	FQ-10-12"L1	190.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-3-12"L1	650.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6"L1	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"L1	635.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-9-8"L1	30.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	20.94	41.89	1.50
FILTRATE OR EFFLUENT DEMO	FT-3-3"W	200.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	105.00	136.50	7.88
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'6"	3.89 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	108.22	140.69	7.58
STORM SEWER DEMO	ST-10"	145.00 LNFT			.00	
STORM SEWER DEMO	ST-10"VCP	275.00 LNFT			.00	
STORM SEWER DEMO	ST-12"	440.00 LNFT			.00	
STORM SEWER DEMO	ST-12"C1	85.00 LNFT			.00	
STORM SEWER DEMO	ST-12"RCP	170.00 LNFT			.00	
STORM SEWER DEMO	ST-12"VCP	85.00 LNFT			.00	
STORM SEWER DEMO	ST-18"	75.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	13.32	26.64	3.82
FEEDER CABLE DEMO	FEEDER CABLE	845.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	713.16	1426.32	10.70
RAIL TRACK DEMO	RAIL ROAD TIES	713.16 CUFT			.00	

000815

Source: GRID 25 BUILDING 45, WEST WATER TOWER(26B) GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	47.76	797.51	11.70
RAIL TRACK DEMO	RAIL TRACK	11.70 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	4.72	9.44	1.35
ELECTRICAL WIRING DEMO	ELECTRIC TAMPER SWITCH	125.00 LNFT			.00	
ELECTRICAL WIRING DEMO	PERIMETER ELECTRICAL TRENCH	740.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	148.18	296.36	10.61
LIVE STEAM DEMO	LS (UNIDENTIFIED)	140.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-105-4"	205.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-3"	15.00 LNFT			.00	
PROCESS WATER DEMO	TW-19-3"L1	740.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"CI	115.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"M1	60.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-NO SIZE	140.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1501.68	3003.36	66.32
HIGH PRESSURE FIRE LINE DEMO	FQ-45-6"L1	45.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-13-12"L1	190.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-2-12"L1	205.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-24-12"L1	145.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-25-6"L1	35.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-9-12"L1	525.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-6"L1	90.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6"L1	15.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"L1	765.00 LNFT			.00	
PROCESS WATER DEMO	TW-105-4"	230.00 LNFT			.00	
RAW WATER DEMO	RW-1-6"L1	15.00 LNFT			.00	
RAW WATER DEMO	RW-3-8"A	75.00 LNFT			.00	
RAW WATER DEMO	RW-3-8"L1	215.00 LNFT			.00	
RAW WATER DEMO	RW-4-12"L1	490.00 LNFT			.00	
RAW WATER DEMO	RW-8"	180.00 LNFT			.00	
SANITARY SEWER DEMO	SN-10"L1	235.00 LNFT			.00	
STORM SEWER DEMO	ST-1-6"L1	130.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	28.80	57.60	2.06
FILTRATE OR EFFLUENT DEMO	FT-5-3"W	275.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	779.11	1558.23	34.41
COOLING WATER SUPPLY DEMO	WR-138-6"	230.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-138-6"	230.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT5-18-1000-6"	700.00 LNFT			.00	
SUMP LIQUOR DEMO	SL-18-1000-6"	700.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	B	11330.28	14729.36	849.77
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'6"	32.50 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'10"X1'6"	25.97 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X1'8"	35.29 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'	12.31 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	30.00 CUYD			.00	
STORM SEWER DEMO	CONCRETE TRENCH 3'6"X4'2"	283.56 CUYD			.00	

Source: GRID 25 BUILDING 45, WEST WATER TOWER(26B) GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
PIPING	CLAY PIPING	BELOW GRADE	E	120.11	156.14	8.41
SANITARY SEWER DEMO	SN-4"VCP	105.00	LNFT		.00	
STORM SEWER DEMO	ST-10"N1	720.00	LNFT		.00	
STORM SEWER DEMO	ST-12"RCP	255.00	LNFT		.00	
STORM SEWER DEMO	ST-8"N1	175.00	LNFT		.00	
STORM SEWER DEMO	ST1-2-6"N1	75.00	LNFT		.00	
STORM SEWER DEMO	UNIDENTIFIED PIPE	85.00	LNFT		.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	32.96	65.92	9.46
FEEDER CABLE DEMO	FEEDER CABLE	2091.00	LNFT		.00	
WOOD	WOOD	BELOW GRADE	I	882.96	1765.92	13.24
RAIL TRACK DEMO	RAIL ROAD TIES	882.96	CUFT		.00	

000617

Source: GRID 26 BUILDING 51, 68, PILOT PLANT GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	79.59	1329.18	19.50
RAIL TRACK DEMO	RAIL TRACK	19.50 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	5.89	11.78	1.69
ELECTRICAL WIRING DEMO	LIGHTING	550.00 LNFT			.00	
ELECTRICAL WIRING DEMO	PERIMETER ELECTRCIAL TRENCH	530.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	9.69	19.37	1.09
DEIONIZED WATER DEMO	PW-1-1"P1	195.00 LNFT			.00	
FUEL GAS DEMO	FG-2-2"V	175.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	54.98	109.96	3.94
HIGH PRESSURE FIRE LINE DEMO	FQ1-3"	70.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6-4"L1	95.00 LNFT			.00	
PROCESS WATER DEMO	TW-9-3"W	180.00 LNFT			.00	
PROCESS WATER DEMO	TW-E22-3-4"	180.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	812.62	1625.25	35.89
HIGH PRESSURE FIRE LINE DEMO	FQ-1-9-12"L1	10.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-7-6"L1	85.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	310.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-7-12"L1	360.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	545.00 LNFT			.00	
RAW WATER DEMO	RW-3-8"A	100.00 LNFT			.00	
STORM SEWER DEMO	ST-10"C1	50.00 LNFT			.00	
STORM SEWER DEMO	ST-8"C1	480.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	C	16.36	32.72	1.84
CONTAMINATED SEWER DEMO	CE-138-2"	180.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-2"	260.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-37-2-2"A	185.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	43.46	86.92	3.11
CONTAMINATED SEWER DEMO	CE-37-4"N1	90.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-4"	325.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	242.95	485.90	10.73
CONTAMINATED SEWER DEMO	CE-6"	60.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-8"	45.00 LNFT			.00	
COOLING WATER RETURN DEMO	WR-8"	50.00 LNFT			.00	
COOLING WATER RETURN DEMO	WS-4-6"	190.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-10"W	45.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-9-6"W	190.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	B	2807.85	3650.20	210.59
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'11"X2'3"	14.38 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'4"X8"	8.56 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'6"	4.72 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'4"X1'8"	76.34 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	310.24	403.31	21.72
STORM SEWER DEMO	ST-10"	25.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STORM SEWER DEMO	ST-10"N1	215.00 LNFT		.00		
STORM SEWER DEMO	ST-10"VCP	60.00 LNFT		.00		
STORM SEWER DEMO	ST-12"RCP	1100.00 LNFT		.00		
STORM SEWER DEMO	ST-15"RCP	155.00 LNFT		.00		
STORM SEWER DEMO	ST-17-18"N1	75.00 LNFT		.00		
STORM SEWER DEMO	ST-18-21"N1	100.00 LNFT		.00		
STORM SEWER DEMO	ST-24"RCP	650.00 LNFT		.00		
STORM SEWER DEMO	ST-4"	265.00 LNFT		.00		
STORM SEWER DEMO	ST-6"	400.00 LNFT		.00		
STORM SEWER DEMO	ST-6"N1	75.00 LNFT		.00		
STORM SEWER DEMO	ST-6"VCP	305.00 LNFT		.00		
STORM SEWER DEMO	ST-8"N1	230.00 LNFT		.00		
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	37.15	74.30	10.66
FEEDER CABLE DEMO	FEEDER CABLE	2357.00 LNFT		.00		
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.25	.49	.01
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	45.00 LNFT		.00		
WOOD	WOOD	BELOW GRADE	I	1471.60	2943.20	22.07
RAIL TRACK DEMO	RAIL ROAD TIES	1471.60 CUFT		.00		

000619

Source: GRID 27 BUILDING 1, 66, 71, 72 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	1.01	2.02	.29
ELECTRICAL WIRING DEMO	UTILITIES TRENCH	185.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	8.90	17.80	1.00
LOW PRESSURE FIRE LINE DEMO	DW-2"-L1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"-T	20.00 LNFT			.00	
PIPING DEMO	PA-1.5"W	45.00 LNFT			.00	
PIPING DEMO	SA-.75"-W	50.00 LNFT			.00	
PROCESS WATER DEMO	TW-1"-W	155.00 LNFT			.00	
PROCESS WATER DEMO	TW-1.5"-W	40.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	86.39	172.79	6.19
FUEL GAS DEMO	FG-12-3"-V	205.00 LNFT			.00	
LIVE STEAM DEMO	LS-3"-S	35.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-24-3"-L1	240.00 LNFT			.00	
PROCESS WATER DEMO	TW-12-3"-W	195.00 LNFT			.00	
STORM SEWER DEMO	ST-4"CI	150.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1103.75	2207.49	48.75
HIGH PRESSURE FIRE LINE DEMO	FQ-10-12"-L1	450.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-18-8"-L1	375.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ-23-6"-L1	15.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-28	15.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-28-6"-L1	15.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-9-8"-L1	455.00 LNFT			.00	
RAW WATER DEMO	RW-4-12"-L1	440.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4C-6"-M1	225.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4C-6"CI	170.00 LNFT			.00	
STORM SEWER DEMO	ST-10"CI	80.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI	395.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	76.97	153.94	5.51
COOLING WATER RETURN DEMO	WR-8-4"-W	230.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-3"	65.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-3-3"-W	440.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	96.34	192.68	4.26
COOLING WATER SUPPLY DEMO	WS-8-4"-W	230.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	2493.33	3241.33	187.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'10"X1'10"	92.35 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	165.52	215.17	11.59
STORM SEWER DEMO	ST-10"N1	170.00 LNFT			.00	
STORM SEWER DEMO	ST-10-30"N1	225.00 LNFT			.00	
STORM SEWER DEMO	ST-12"RCP	115.00 LNFT			.00	
STORM SEWER DEMO	ST-18"	80.00 LNFT			.00	
STORM SEWER DEMO	ST-3"W	85.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	10.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	200.00 LNFT			.00	
STORM SEWER DEMO	ST-7-15"-N1	210.00 LNFT			.00	
STORM SEWER DEMO	ST-8-15"-N1	65.00 LNFT			.00	

Source: GRID 27 BUILDING 1, 66, 71, 72 GRID Component Category: 10

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STORM SEWER DEMO	ST-8-18"N1	170.00 LNFT			.00	
STORM SEWER DEMO	ST-8-21"N1	180.00 LNFT			.00	
STORM SEWER DEMO	ST-9-12"	185.00 LNFT			.00	
STORM SEWER DEMO	ST-9-18"	255.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	42.83	85.65	12.29
FEEDER CABLE DEMO	FEEDER CABLE	2717.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	25.61	51.21	.83
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	380.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	4315.00 LNFT			.00	

Source: GRID 28 SOUTH OF PILOT PLANT GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	3.79	7.58	1.09
ELECTRCIAL WIRING DEMO	ELECTRICAL TRENCH	485.00 LNFT			.00	
ELECTRICAL WIRING DEMO	CABLE	210.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	2.88	5.76	.32
LOW PRESSURE FIRE LINE DEMO	DW-2"	110.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	53.90	70.07	3.77
STORM SEWER DEMO	ST-24"RCP	15.00 LNFT			.00	
STORM SEWER DEMO	ST-30"RCP	270.00 LNFT			.00	
STORM SEWER DEMO	UNIDENTIFIED LINE	350.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	20.46	40.92	5.87
FEEDER CABLE DEMO	FEEDER CABLE	1298.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.82	1.64	.03
ELECTRICAL CONDUIT DEMO	(3) 2" ELECTRICAL CONDUIT	150.00 LNFT			.00	

Source: GRID 29 SOUTH OF BUILDING 15 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	7.12	14.24	2.04
ELECTRICAL WIRING DEMO	2 PAIR DB PHONE CABLES	385.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	390.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	530.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	2.49	4.97	.28
LOW PRESSURE FIRE LINE DEMO	DW-1"	95.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	24.09	48.17	1.73
LOW PRESSURE FIRE LINE DEMO	DW-4"	230.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	236.67	473.33	10.45
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"	265.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	115.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	185.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	B	24.19	31.45	1.69
STORM SEWER DEMO	ST-30"RCP	285.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	31.62	63.24	9.07
FEEDER CABLE DEMO	FEEDER CABLE	2006.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	7.25	14.51	.24
ELECTRICAL CONDUIT DEMO	.75" ELECTRICAL CONDUIT	45.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	390.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	35.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	4" CONDUIT IN CONCRETE	260.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	4" ELECTRICAL CONDUIT	600.00 LNFT			.00	
PIPING	PVC PIPING	BELOW GRADE	I	61.09	122.17	.26
SANITARY SEWER DEMO	SN-4"PVC	145.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8"PVC	555.00 LNFT			.00	

Source: GRID 3 BUILDING 9, 77, 81 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
		Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	61.22	1022.45	15.00
RAIL TRACK DEMO	RAIL TRACK	15.00 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	6.11	12.22	1.75
ELECTRICAL GROUND DEMO	#2/0 GROUND	375.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	745.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	13.35	26.70	1.50
DEIONIZED FEED DEMO	DF-2-2"W	120.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-15-1.5"V	120.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"L1	150.00 LNFT			.00	
PROCESS WATER DEMO	TW-18-2"W	120.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	51.84	103.67	3.71
FUEL GAS DEMO	FG-15-3"-V	120.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-13-4"-L1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-29-4"L1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	155.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-50-4"L1	120.00 LNFT			.00	
STORM SEWER DEMO	ST-4"CI	40.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1729.97	3459.94	76.41
HIGH PRESSURE FIRE LINE DEMO	FQ1-10-12"L1	470.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-1000-8"L1	505.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-11-6"-L1	20.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-16-8"L1	20.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-5-12"L1	480.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	85.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6-12"L1	25.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"L1	245.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-9-301-6"L1	105.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-8"L1	495.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-28-8"L1	310.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-9-8"L1	420.00 LNFT			.00	
PROCESS WATER DEMO	TW-18-6"W	120.00 LNFT			.00	
STORM SEWER DEMO	ST-1001-8"-M1	100.00 LNFT			.00	
STORM SEWER DEMO	ST-12"CMP	155.00 LNFT			.00	
STORM SEWER DEMO	ST-6"CI	75.00 LNFT			.00	
STORM SEWER DEMO	ST-8"CMP	500.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	25.13	50.27	1.80
COOLING WATER RETURN DEMO	WR-13-4"W	120.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-13-4"W	120.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	100.53	201.06	4.44
COOLING WATER RETURN DEMO	WR-9-308-6"W	120.00 LNFT			.00	
COOLING WATER SUPPLY DEMO	WS-9-308-6"W	120.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	B	5980.42	7774.54	448.53
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'6"X2'8"	7.41 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X8"	4.69 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'	9.38 CUYD			.00	

Source: GRID 3 BUILDING 9, 77, 81 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'2"	111.42	CUYD		.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X2'4"	50.56	CUYD		.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 4'10"X1'5"	38.04	CUYD		.00	
PIPING	CLAY PIPING	BELOW GRADE	E	454.11	590.34	31.79
CONTAMINATED SEWER DEMO	CE-3VCP	65.00	LNFT		.00	
CONTAMINATED SEWER DEMO	CE-4"VCP	135.00	LNFT		.00	
CONTAMINATED SEWER DEMO	CE-6"VCP	500.00	LNFT		.00	
CONTAMINATED SEWER DEMO	CE-9-N1-6-6"L2	70.00	LNFT		.00	
CONTAMINATED SEWER DEMO	CE-9-N1-8-3"L2	55.00	LNFT		.00	
PIPING DEMO	CONCRETE PIPE	30.00	LNFT		.00	
SANITARY SEWER DEMO	SN-1002-6"M1	630.00	LNFT		.00	
SANITARY SEWER DEMO	SN-6"M1	60.00	LNFT		.00	
SANITARY SEWER DEMO	SN-6C-6"M1	120.00	LNFT		.00	
STORM SEWER DEMO	ST-1-18"N1	60.00	LNFT		.00	
STORM SEWER DEMO	ST-1-21"N1	440.00	LNFT		.00	
STORM SEWER DEMO	ST-10"N1	170.00	LNFT		.00	
STORM SEWER DEMO	ST-10"VCP	15.00	LNFT		.00	
STORM SEWER DEMO	ST-1000-6"N1	160.00	LNFT		.00	
STORM SEWER DEMO	ST-12"RCP	110.00	LNFT		.00	
STORM SEWER DEMO	ST-15"N1	205.00	LNFT		.00	
STORM SEWER DEMO	ST-2"N1	175.00	LNFT		.00	
STORM SEWER DEMO	ST-3"	50.00	LNFT		.00	
STORM SEWER DEMO	ST-3"N1	45.00	LNFT		.00	
STORM SEWER DEMO	ST-3-18"N1	290.00	LNFT		.00	
STORM SEWER DEMO	ST-4"	75.00	LNFT		.00	
STORM SEWER DEMO	ST-4"VCP	40.00	LNFT		.00	
STORM SEWER DEMO	ST-5"	200.00	LNFT		.00	
STORM SEWER DEMO	ST-6"	210.00	LNFT		.00	
STORM SEWER DEMO	ST-6" DRAIN TILE	510.00	LNFT		.00	
STORM SEWER DEMO	ST-6"N1	815.00	LNFT		.00	
STORM SEWER DEMO	ST-6"VCP	70.00	LNFT		.00	
STORM SEWER DEMO	ST-7-6"N1	20.00	LNFT		.00	
STORM SEWER DEMO	ST-8-6"N1	25.00	LNFT		.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	35.88	71.75	10.30
FEEDER CABLE DEMO	FEEDER CABLE	2276.00	LNFT		.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	.68	1.36	.02
ELECTRICAL CONDUIT DEMO	ELECTRICAL CONDUIT IN RED CONC	125.00	LNFT		.00	
WOOD	WOOD	BELOW GRADE	I	566.00	1132.00	8.49
RAIL TRACK DEMO	RAIL ROAD TIES	566.00	CUFT		.00	

000625

Source: GRID 30 STORM WATER RETENTION BASINS GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	7.83	15.65	2.25
ELECTRICAL GROUND DEMO	#2 GROUND	155.00 LNFT			.00	
ELECTRICAL WIRING DEMO	D.B. ALARM WIRES	195.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	1085.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	8.90	17.80	.64
SUB-SURFACE DRAINAGE DEMO	LW-4"M	85.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2892.36	5784.71	127.74
FUEL GAS DEMO	FG1-18"	45.00 LNFT			.00	
STORM SEWER DEMO	ST-10"DIP	200.00 LNFT			.00	
STORM SEWER DEMO	ST-16"M1	115.00 LNFT			.00	
STORM SEWER DEMO	ST-16"M1	90.00 LNFT			.00	
STORM SEWER DEMO	ST-6"M1	200.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	GW-6"	1160.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	GW-6"-BP	1575.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	LW-12"-N1	135.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	LW-6"B	1960.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-18"	130.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-18"	35.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	UD-6"	1260.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	16.55	21.52	1.16
STORM SEWER DEMO	ST-60"	65.00 LNFT			.00	
STORM SEWER DEMO	ST-60"RCP	130.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	25.83	51.67	7.41
FEEDER CABLE DEMO	FEEDER CABLE	1639.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	6.87	13.74	.22
ELECTRICAL CONDUIT DEMO	.5" ELECTRICAL CONDUIT	50.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	1" ELECTRICAL CONDUIT	230.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	980.00 LNFT			.00	

Source: GRID 31 WASTE PITS GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	238.78	3987.55	58.50
RAIL TRACK DEMO	RAIL TRACK	58.50 TONS			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	71.86	143.73	8.10
PROCESS WATER DEMO	TW-8-35-2"W	2745.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	109.96	219.91	7.88
PROCESS WATER DEMO	TW-3"	1050.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2203.30	4406.60	97.31
LOW PRESSURE FIRE LINE DEMO	LW-6"B	5260.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	1363.45	2726.90	60.22
CONTAMINATED SEWER DEMO	CE-6"	1000.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-6"-4	340.00 LNFT			.00	
CONTAMINATED SEWER DEMO	CE-6"M	685.00 LNFT			.00	
FILTRATE OR EFFLUENT DEMO	FT-5-18-1000-6"W	1230.00 LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	92.10	119.72	6.45
FILTRATE OR EFFLUENT DEMO	FT-12" TRANSITE	1085.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	4414.80	8829.60	66.22
RAIL TRACK DEMO	RAIL ROAD TIES	4414.80 CUFT			.00	

000627

Source: GRID 32 SEWER TREATMENT GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	1.25	2.51	.36
ELECTRICAL WIRING DEMO	LIGHTING	230.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	23.17	46.34	2.61
FUEL GAS DEMO	FG-1"	270.00 LNFT			.00	
FUEL GAS DEMO	FG-2"	370.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	245.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	108.38	216.77	7.76
FUEL GAS DEMO	FG-14-4"	355.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-22-1000-4"L3	215.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-3"	170.00 LNFT			.00	
SANITARY SEWER DEMO	SN-11-4"	240.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	55.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1380.21	2760.41	60.96
LOW PRESSURE FIRE LINE DEMO	DW-.5"	60.00 LNFT			.00	
SANITARY SEWER DEMO	SN-10"	175.00 LNFT			.00	
SANITARY SEWER DEMO	SN-10-10"	405.00 LNFT			.00	
SANITARY SEWER DEMO	SN-13-6"	40.00 LNFT			.00	
SANITARY SEWER DEMO	SN-16"CI	105.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"CI	1490.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8"	155.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8-8"L1	510.00 LNFT			.00	
SANITARY SEWER DEMO	SN-9-10"L1	355.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	108.91	217.82	4.81
FILTRATE OR EFFLUENT DEMO	FT-4-12"W	260.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	652.22	847.89	48.92
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 10"X1'8"	8.23 CUYD			.00	
STORM SEWER DEMO	TRENCH	15.93 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	42.44	55.17	2.97
ELECTRICAL CONDUIT DEMO	2"C TRANSITE	320.00 LNFT			.00	
STORM SEWER DEMO	CULVERT	90.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	90.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	36.33	72.67	10.43
FEEDER CABLE DEMO	FEEDER CABLE	2305.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	1.58	3.16	.05
ELECTRICAL WIRING DEMO	ELECTRICAL CONDUIT	290.00 LNFT			.00	

Source: GRID 33 BUILDING 73 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level	Takeoff Quantity		FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE			B	1.47	2.95	.42
ELECTRICAL WIRING DEMO	DIRECT BUIRAL TELEPHONE LINE		270.00	LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE			B	10.47	20.94	1.18
ELECTRICAL CONDUIT DEMO	#6 ALUMINUM CONDUIT		400.00	LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE			B	138.23	276.46	6.11
LOW PRESSURE FIRE LINE DEMO	DW-8-6"L1		40.00	LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-8"L1		290.00	LNFT			.00	
PIPING	CLAY PIPING	BELOW GRADE			E	58.99	76.69	4.13
STORM SEWER DEMO	ST-12"		100.00	LNFT			.00	
STORM SEWER DEMO	ST-12" ABANDONED		95.00	LNFT			.00	
STORM SEWER DEMO	ST-24"		500.00	LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE			G	13.26	26.51	3.80
FEEDER CABLE DEMO	FEEDER CABLE		841.00	LNFT			.00	

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Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	14.59	29.18	4.19
ELECTRICAL WIRING DEMO	100 PR CABLE	575.00 LNFT			.00	
ELECTRICAL WIRING DEMO	400 PR CABLE	575.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	550.00 LNFT			.00	
ELECTRICAL WIRING DEMO	F.O. PHONE LINE	175.00 LNFT			.00	
ELECTRICAL WIRING DEMO	LIGHTING	440.00 LNFT			.00	
ELECTRICAL WIRING DEMO	TELEPHONE	360.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	5.37	10.73	.60
LOW PRESSURE FIRE LINE DEMO	DW-1"	130.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	75.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	137.18	274.37	9.83
FUEL GAS DEMO	FG-14-4"V	965.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-22-1000-4"L3	250.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-29-4"L1	65.00 LNFT			.00	
SANITARY SEWER DEMO	SN - 4"C1	30.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1051.39	2102.77	46.44
HIGH PRESSURE FIRE LINE DEMO	FQ1-12"L1	390.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6"	125.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6-12"L1	490.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	445.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ6-1-8"L1	115.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-8"L1	660.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-12"L1	80.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-14-12"L1	45.00 LNFT			.00	
SANITARY SEWER DEMO	SN - 6"C1	160.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	6243.54	8116.60	468.27
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'6"X10"	2.08 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X8"	2.22 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'1"X1'6"	4.63 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'X10'	4.32 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'X10"	10.19 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 7"X7"	1.13 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 8"X10"	192.59 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	14.07 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	150.24	195.31	10.52
STORM SEWER DEMO	CONCRETE OVAL PIPE 53"X34"	235.00 LNFT			.00	
STORM SEWER DEMO	ST-10"	180.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	25.00 LNFT			.00	
STORM SEWER DEMO	ST-12"RCP	35.00 LNFT			.00	
STORM SEWER DEMO	ST-15"RCP	35.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	185.00 LNFT			.00	
STORM SEWER DEMO	ST-4"C1	80.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	655.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	340.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	45.87	91.74	13.16
FEEDER CABLE DEMO	FEEDER CABLE	2910.00 LNFT			.00	

Source: GRID 4 BUILDING 79, 82, EAST WATER TOWER(20D) GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	5.02	10.04	.16

Work Type	Item	Takeoff Quantity	Elevation (FT)
ELECTRICAL CONDUIT DEMO	1.5" ELECTRICAL CONDUIT	445.00 LNFT	.00
ELECTRICAL GROUND DEMO	#2/0 GROUND	475.00 LNFT	.00

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Source: GRID 5 EAST OF MAIN SUB-STATION GRID Component Category: 10

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	8.06	16.12	2.31
ELECTRICAL WIRING DEMO	3/C #8 W/I #10G	475.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	475.00 LNFT			.00	
ELECTRICAL WIRING DEMO	F.O. PHONE LINE	527.50 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	151.32	302.64	10.84
FUEL GAS DEMO	FG-14-4"	660.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-15-3"	660.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-22-1000-4"-L3	125.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	293.22	586.43	12.95
SANITARY SEWER DEMO	SN-8-8"L1	660.00 LNFT			.00	
STORM SEWER DEMO	CMP DRAIN PIPE	40.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	276.46	552.92	12.21
FILTRATE OR EFFLUENT DEMO	FT-1-12"	660.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	26534.03	34494.24	1990.05
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'5"X1'9"	939.81 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'X2'3"	41.67 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 7"X7"	1.26 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	11.46	14.90	.80
STORM SEWER DEMO	CONCRETE SEWER PIPE 54"X34" OVAL	60.00 LNFT			.00	
STORM SEWER DEMO	ST-12"-RCP	75.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	30.11	60.21	8.64
FEEDER CABLE DEMO	FEEDER CABLE	1910.00 LNFT			.00	

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	4.61	9.22	1.32
ELECTRICAL WIRING DEMO	LIGHTING	735.00 LNFT			.00	
ELECTRICAL WIRING DEMO	TELEPHONE	110.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	24.87	49.74	2.80
DEIONIZED FEED DEMO	DF-2-2"W	175.00 LNFT			.00	
FUEL GAS DEMO	FG-11-2"V	150.00 LNFT			.00	
FUEL GAS DEMO	FG-E22-4-2"V	150.00 LNFT			.00	
LIVE STEAM DEMO	LS-24-2"-S	40.00 LNFT			.00	
LIVE STEAM DEMO	LS-25-2"S	125.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1"	130.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	15.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1-2"W	125.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-2-2"W	40.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	74.87	149.75	5.36
FUEL GAS DEMO	FG-14-4"V	35.00 LNFT			.00	
FUEL GAS DEMO	FG-15-3"V	40.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-29-4"L1	65.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-3"	140.00 LNFT			.00	
PROCESS WATER DEMO	TW-14-3"W	150.00 LNFT			.00	
PROCESS WATER DEMO	TW-E22-3-3"W	150.00 LNFT			.00	
STORM SEWER DEMO	ST-3"COPPER	120.00 LNFT			.00	
STORM SEWER DEMO	ST-4"C1	15.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	2160.58	4321.15	95.42
FUEL GAS DEMO	FG1-6"V	460.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-6-12"L1	10.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ6 - 1-8"L1	90.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQI - 35-8"L1	720.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQI - 7-12"L1	490.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQI - 8"	90.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQI-21-8"L1	15.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1-8"L1	700.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-14-12"L1	65.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2-12"L1	50.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-28-8"L1	40.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-1-12"L1	320.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6-8"-L1	305.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8"	20.00 LNFT			.00	
PROCESS WATER DEMO	TW-18-6"W	40.00 LNFT			.00	
PROCESS WATER DEMO	TW-5-6"W	220.00 LNFT			.00	
SANITARY SEWER DEMO	SN-1A-6"M1	130.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2-8"M1	720.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"	35.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"C1	30.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"M1	35.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6-1-8"M2	570.00 LNFT			.00	
STORM SEWER DEMO	ST-10"C1	3.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	C	41.89	83.78	3.00
CONTAMINATED SEWER DEMO	CE-4"C1	40.00 LNFT			.00	

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Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS) / Elevation (FT)
COOLING WATER RETURN DEMO	WR-10-3"W	150.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-7-3"W	30.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-10-3"W	150.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-7-3"W	30.00	LNFT			.00
PIPING	PIPING (OVER 4")	BELOW GRADE	C	726.75	1453.51	32.10
COOLING WATER RETURN DEMO	WR-14-6"W	200.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-9-308-6"-W	40.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-E22-10-6"W	255.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-E22-12-12"	30.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-E22-8-12"W	400.00	LNFT			.00
COOLING WATER RETURN DEMO	WR-E22-8-6"W	70.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WR-E22-11-6"W	75.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-12-6"W	100.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-13-6"W	40.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-9-302-6"-W	45.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-E22-8-12"W	220.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-E22-8-6"W	5.00	LNFT			.00
COOLING WATER SUPPLY DEMO	WS-E22-9-6"W	255.00	LNFT			.00
CONCRETE	CONCRETE	BELOW GRADE	E	22226.60	28894.58	1666.99
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'9"X2'6"	24.31	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X8"	1.48	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 10"X2'	4.01	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'3"X1'9"	7.29	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X10"	4.89	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'1"	46.42	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	191.56	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'	205.83	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'2"	317.55	CUYD			.00
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'3"X3'	19.86	CUYD			.00
PIPING	CLAY PIPING	BELOW GRADE	E	452.41	588.13	31.67
CONTAMINATED SEWER DEMO	CE-4"	115.00	LNFT			.00
CONTAMINATED SEWER DEMO	CE-6"VCP	30.00	LNFT			.00
SANITARY SEWER DEMO	SN-2-6"	60.00	LNFT			.00
SANITARY SEWER DEMO	SN-6-6"N1	375.00	LNFT			.00
STORM SEWER DEMO	ST-1-10"N1	20.00	LNFT			.00
STORM SEWER DEMO	ST-1-24"N1	260.00	LNFT			.00
STORM SEWER DEMO	ST-1.5"	60.00	LNFT			.00
STORM SEWER DEMO	ST-10"	265.00	LNFT			.00
STORM SEWER DEMO	ST-10"N1	130.00	LNFT			.00
STORM SEWER DEMO	ST-10"VCP	195.00	LNFT			.00
STORM SEWER DEMO	ST-12"	70.00	LNFT			.00
STORM SEWER DEMO	ST-12"RCP	40.00	LNFT			.00
STORM SEWER DEMO	ST-12"VCP	100.00	LNFT			.00
STORM SEWER DEMO	ST-12-18"N1	490.00	LNFT			.00
STORM SEWER DEMO	ST-4"	110.00	LNFT			.00
STORM SEWER DEMO	ST-4" DRAIN TILE	80.00	LNFT			.00
STORM SEWER DEMO	ST-4"VCP	50.00	LNFT			.00
STORM SEWER DEMO	ST-4-30"N1	130.00	LNFT			.00
STORM SEWER DEMO	ST-6"	820.00	LNFT			.00
STORM SEWER DEMO	ST-6" DRAIN TILE	70.00	LNFT			.00

Source: GRID 6 BUILDING 6 GRID Component Category: 10

Material	Material Description	Grade Level	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STORM SEWER DEMO	ST-6"N1	475.00 LNFT			.00	
STORM SEWER DEMO	ST-6-1-12"N1	70.00 LNFT			.00	
STORM SEWER DEMO	ST-6-1-15"	215.00 LNFT			.00	
STORM SEWER DEMO	ST-6-1-18"N1	100.00 LNFT			.00	
STORM SEWER DEMO	ST-6-2-12"N1	180.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	70.00 LNFT			.00	
STORM SEWER DEMO	ST-8"N1	235.00 LNFT			.00	
STORM SEWER DEMO	ST-8"VCP	215.00 LNFT			.00	
STORM SEWER DEMO	ST6-1-10"N1	20.00 LNFT			.00	
SUB-SURFACE DRAINAGE DEMO	SD-3-12"N1	280.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	57.03	114.06	16.37
FEEDER CABLE DEMO	FEEDER CABLE	3618.00 LNFT			.00	
PIPING	PVC PIPING	BELOW GRADE	I	12.22	24.43	.05
SANITARY SEWER DEMO	SN-4"PVC	140.00 LNFT			.00	

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Source: GRID 7 BUILDING 31, 46, MAIN SUB-STATION GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	2.48	4.96	.71
ELECTRICAL WIRING DEMO	ELECTRICAL LINE	30.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	365.00 LNFT			.00	
ELECTRICAL WIRING DEMO	TELEPHONE	60.00 LNFT			.00	
PIPING	PIPING (2" AND LESS)	BELOW GRADE	B	22.78	45.55	2.57
LIVE STEAM DEMO	LS-25-2"S	220.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1"	10.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-1.5"	300.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2"	120.00 LNFT			.00	
STEAM CONDENSATE DEMO	CN-1-2"W	220.00 LNFT			.00	
PIPING	PIPING (2-1/2" TO 4")	BELOW GRADE	B	115.72	231.43	8.29
LOW PRESSURE FIRE LINE DEMO	DW (NO SIZE)	100.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-15-3"-L1	185.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-3"L1	100.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-4"	690.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4"	30.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	1118.41	2236.81	49.40
HIGH PRESSURE FIRE LINE DEMO	FQ1-20-6"L1	55.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-21-6"-L1	150.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-8"	890.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-16-6"L1	85.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-2-12"L1	30.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-6"L1	25.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-8-12"L1	650.00 LNFT			.00	
SANITARY SEWER DEMO	SN-2-8"M1	30.00 LNFT			.00	
SANITARY SEWER DEMO	SN-4-6"M1	35.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"M1	55.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6-8"M2	30.00 LNFT			.00	
SANITARY SEWER DEMO	SN-8-8"L1	160.00 LNFT			.00	
SANITARY SEWER DEMO	SN1-15"M1	375.00 LNFT			.00	
SANITARY SEWER DEMO	SN1-16"M1	100.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	C	272.27	544.54	12.03
FILTRATE OR EFFLUENT DEMO	FT-1-12"W	650.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	4267.60	5547.89	320.07
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 1'X1'	19.07 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 10"X1'6"	1.39 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 2'3"X1'9"	17.50 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X2'4"	41.05 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 3'2"X3'2"	74.28 CUYD			.00	
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT 7"X7"	.69 CUYD			.00	
STORM SEWER DEMO	12" CONCRETE TRENCH	4.07 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	B	218.99	284.69	15.33
SANITARY SEWER DEMO	SN-6"	690.00 LNFT			.00	
SANITARY SEWER DEMO	SN1-8-6"N1	120.00 LNFT			.00	
STORM SEWER DEMO	ST-10"N1	90.00 LNFT			.00	
STORM SEWER DEMO	ST-10"RCP	110.00 LNFT			.00	

Source: GRID 7 BUILDING 31, 46, MAIN SUB-STATION GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STORM SEWER DEMO	ST-12"RCP	125.00 LNFT			.00	
STORM SEWER DEMO	ST-12"VCP	135.00 LNFT			.00	
STORM SEWER DEMO	ST-15-18"N1	270.00 LNFT			.00	
STORM SEWER DEMO	ST-15-21"N1	130.00 LNFT			.00	
STORM SEWER DEMO	ST-18"RCP	240.00 LNFT			.00	
STORM SEWER DEMO	ST-20-10"N1	285.00 LNFT			.00	
STORM SEWER DEMO	ST-20-12"RCP	50.00 LNFT			.00	
STORM SEWER DEMO	ST-4" FIELD TILE	50.00 LNFT			.00	
STORM SEWER DEMO	ST-6"N1	265.00 LNFT			.00	
STORM SEWER DEMO	ST-8"	20.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	47.02	94.04	13.49
FEEDER CABLE DEMO	FEEDER CABLE	2983.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	6.63	13.25	.22
ELECTRICAL CONDUIT DEMO	1.25" ELECTRICAL CONDUIT	160.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3" ELECTRICAL CONDUIT	340.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	3-4" ELECTRICAL CONDUIT	90.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	6-4" ELECTRICAL CONDUIT	240.00 LNFT			.00	
ELECTRICAL WIRING DEMO	DIRECT BURIAL CABLE	25.00 LNFT			.00	
ELECTRICAL WIRING DEMO	EXISTING FEED	100.00 LNFT			.00	
ELECTRICAL WIRING DEMO	UNIDENTIFIED PVC CONDUIT	260.00 LNFT			.00	
PIPING	PVC PIPING	BELOW GRADE	I	46.69	93.38	.20
SANITARY SEWER DEMO	SN-4"PVC	430.00 LNFT			.00	
SANITARY SEWER DEMO	SN-6"PVC	105.00 LNFT			.00	

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Source: GRID 8 EAST PARKING LOT GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	PS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	11.97	23.94	3.44
ELECTRICAL WIRING DEMO	7"X7" TRENCH	610.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	385.00 LNFT			.00	
ELECTRICAL WIRING DEMO	F.O. PHONE LINE	1200.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	293.22	586.43	12.95
STORM SEWER DEMO	10 GA, 72" X 44"	570.00 LNFT			.00	
STORM SEWER DEMO	16 GA, 22" X 13"	85.00 LNFT			.00	
STORM SEWER DEMO	20 GA, 50" X 31"	45.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	990.00	1287.00	74.25
ELECTRICAL DUCT DEMO	1.5"C IN 1'X1' RED CONCRETE	36.67 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	327.21	425.38	22.90
CONCRETE PIPING DEMO	GW1-24"-01	1080.00 LNFT			.00	
STORM SEWER DEMO	ST-10"RCP	360.00 LNFT			.00	
STORM SEWER DEMO	ST-12"RCP	555.00 LNFT			.00	
STORM SEWER DEMO	ST-20-12"N1	150.00 LNFT			.00	
STORM SEWER DEMO	ST-4"	1710.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	53.17	106.33	15.26
FEEDER CABLE DEMO	FEEDER CABLE	3373.00 LNFT			.00	
ELECTRICAL	PVC CONDUIT	BELOW GRADE	I	5.56	11.13	.18
ELECTRICAL CONDUIT DEMO	1 1/4" ELECTRICAL CONDUIT	60.00 LNFT			.00	
ELECTRICAL CONDUIT DEMO	2" ELECTRICAL CONDUIT	960.00 LNFT			.00	

Source: GRID 9 BUILDING 63 GRID Component Category: 10

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT) / Elevation (FT)	Bulked Volume (CUFT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	BELOW GRADE	A	336.73	5623.47	82.50
RAIL TRACK DEMO	RAIL TRACK	82.50 TONS			.00	
ELECTRICAL	ELECTRICAL WIRING	BELOW GRADE	B	6.76	13.53	1.94
ELECTRICAL WIRING DEMO	DIRECT BURIAL CABLE	590.00 LNFT			.00	
ELECTRICAL WIRING DEMO	ELECTRICAL TRENCH	650.00 LNFT			.00	
PIPING	PIPING (OVER 4")	BELOW GRADE	B	800.06	1600.12	35.34
HIGH PRESSURE FIRE LINE DEMO	FQ1-20-6"L1	90.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-20-8"L1	290.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-28-8"L1	100.00 LNFT			.00	
HIGH PRESSURE FIRE LINE DEMO	FQ1-4-12"L1	670.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-10-8"L1	660.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-15-6"L1	50.00 LNFT			.00	
LOW PRESSURE FIRE LINE DEMO	DW-30-6"L1	50.00 LNFT			.00	
CONCRETE	CONCRETE	BELOW GRADE	E	1630.00	2119.00	122.25
ELECTRICAL DUCT DEMO	ELECTRICAL DUCT NO SIZE	38.15 CUYD			.00	
STORM SEWER DEMO	12" CONCRETE TRENCH	22.22 CUYD			.00	
PIPING	CLAY PIPING	BELOW GRADE	E	345.04	448.55	24.15
STORM SEWER DEMO	ST-4"VCP	140.00 LNFT			.00	
STORM SEWER DEMO	ST-6"	2265.00 LNFT			.00	
STORM SEWER DEMO	ST-6-10"N1	265.00 LNFT			.00	
STORM SEWER DEMO	ST-6-13"N1	50.00 LNFT			.00	
STORM SEWER DEMO	ST-6-15"N1	185.00 LNFT			.00	
STORM SEWER DEMO	ST-6A-10"N1	205.00 LNFT			.00	
STORM SEWER DEMO	ST-6A-12"N1	200.00 LNFT			.00	
STORM SEWER DEMO	ST-6A-6"N1	180.00 LNFT			.00	
STORM SEWER DEMO	ST-6A-8"N1	65.00 LNFT			.00	
STORM SEWER DEMO	ST-6B-10"N1	270.00 LNFT			.00	
STORM SEWER DEMO	ST-6B-6"N1	200.00 LNFT			.00	
STORM SEWER DEMO	ST-6B-8"N1	40.00 LNFT			.00	
ELECTRICAL	FEEDER CABLE	BELOW GRADE	G	23.27	46.53	5.68
FEEDER CABLE DEMO	FEEDER CABLE	1476.00 LNFT			.00	
WOOD	WOOD	BELOW GRADE	I	3113.00	6226.00	46.70
RAIL TRACK DEMO	RAIL ROAD TIES	3113.00 CUFT			.00	

Source: TS-001 TENSION SUPPORT STRUCTURE #1 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	183.67	3067.35	45.00
MISC. STEEL DEMO	TUBE STEEL FRAMING	45.00 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	120.33	240.67	2.41
EXT DOOR DEMO	EXT MAN DOORS	210.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	512.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2-1/2" TO 4")	ABOVE GRADE	B	1.77	3.53	.19
ELECTRICAL DEMO	2-1/2" TO 4" DIAMETER	30.00 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	6.00	12.00	.04
ELECTRICAL DEMO	ELECTRICAL FIXTURES	3.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	40.00	80.00	1.00
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	2.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	210.00	420.00	5.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	21.00 EACH			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	9.00	31.50	.03
EQUIPMENT DEMO	HVAC EQUIPMENT	9.00 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	B	28.08	33.69	.04
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	175.47 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	51.67	103.33	1.67
FABRIC ROOF DEMO	FABRIC ROOF	20000.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	27.64	55.28	.89
FABRIC WALL DEMO	FABRIC WALLS	10700.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	147.39	176.87	.22
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	175.47 CUFT			.00	

Source: TS-002 TENSION SUPPORT STRUCTURE #2 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	275.51	4601.02	67.50
MISC. STEEL DEMO	TUBE STEEL FRAMING	67.50 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	120.33	240.67	2.41
EXT DOOR DEMO	EXT DOORS (MAN & OH)	210.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	512.00 SQFT			585.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	15.00	52.50	.06
EQUIPMENT DEMO	HVAC EQUIPMENT	15.00 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	36.42	43.71	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	227.64 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	77.50	155.00	2.50
FABRIC ROOF DEMO	FABRIC ROOF	30000.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	36.17	72.33	1.17
FABRIC WALL DEMO	FABRIC WALLS	14000.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	191.21	229.46	.29
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	227.64 CUFT			.00	

Source: TS-003 TENSION SUPPORT STRUCTURE #3 Component Category: 2

Material	Material Description	Grade Level	PS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT)	Weight (TONS)
Work Type	Item	Takeoff Quantity			Elevation (FT)	
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	53.47	892.94	13.10
MISC. STEEL DEMO	TUBE STEEL FRAMING	13.10 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	70.67	141.33	1.41
EXT DOOR DEMO	EXT MAN DOORS	84.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	340.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	7.59	9.11	.01
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	15.50	31.00	.50
FABRIC ROOF DEMO	FABRIC ROOF	6000.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	11.11	22.22	.36
FABRIC WALL DEMO	FABRIC WALLS	4300.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	39.84	47.80	.06
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	47.42 CUFT			.00	

Source: TS-004 TENSION SUPPORT STRUCTURE #4 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	408.16	6816.33	100.00
MISC. STEEL DEMO	TUBE STEEL FRAMING	100.00 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	83.50	167.00	1.67
EXT DOOR DEMO	EXT MAN DOORS	105.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	396.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	10.35	20.69	1.74
ELECTRICAL DEMO	2" DIAMETER & LESS	1580.91 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	114.00	228.00	.71
ELECTRICAL DEMO	ELECTRICAL FIXTURES	57.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	460.00	920.00	11.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	46.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	8.00	28.00	.19
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	28.00	98.00	.11
EQUIPMENT DEMO	HVAC EQUIPMENT	28.00 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	33.39	40.06	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	112.37	224.75	3.62
FABRIC ROOF DEMO	FABRIC ROOF	43500.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	47.79	95.58	1.54
FABRIC WALL DEMO	FABRIC WALLS	18500.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	175.28	210.33	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	

Source: TS-005 TENSION SUPPORT STRUCTURE #5 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	408.16	6816.33	100.00
MISC. STEEL DEMO	TUBE STEEL FRAMING	100.00 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	116.17	232.33	2.32
EXT DOOR DEMO	EXT MAN DOORS	105.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	592.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	10.35	20.69	1.74
ELECTRICAL DEMO	2" DIAMETER & LESS	1580.91 LNFT			585.00	
ELECTRICAL	ELECTRICAL FIXTURES	ABOVE GRADE	B	114.00	228.00	.71
ELECTRICAL DEMO	ELECTRICAL FIXTURES	57.00 EACH			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	60.00	120.00	1.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	3.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	460.00	920.00	11.50
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	46.00 EACH			.00	
EQUIPMENT	ELECTRICAL EQUIPMENT	ABOVE GRADE	B	8.00	28.00	.23
EQUIPMENT DEMO	ELECTRICAL EQUIPMENT	8.00 CUFT			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	28.00	98.00	.21
EQUIPMENT DEMO	HVAC EQUIPMENT	28.00 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	33.39	40.06	.05
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	112.37	224.75	3.62
FABRIC ROOF DEMO	FABRIC ROOF	43500.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	47.79	95.58	1.54
FABRIC WALL DEMO	FABRIC WALLS	18500.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	175.28	210.33	.27
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	208.67 CUFT			.00	

Source: TS-006 TENSION SUPPORT STRUCTURE #6 Component Category: 2

Material / Work Type	Material Description / Item	Grade Level / Takeoff Quantity	FS Cat	Unbulked Volume (CUFT)	Bulked Volume (CUFT) / Elevation (FT)	Weight (TONS)
STEEL	STRUCTURAL AND MISC. STEEL	ABOVE GRADE	A	44.90	749.80	11.00
MISC. STEEL DEMO	TUBE STEEL FRAMING	11.00 TONS			585.00	
DOORS	DOORS	ABOVE GRADE	B	55.00	110.00	1.10
EXT DOOR DEMO	EXT MAN DOORS	42.00 SQFT			585.00	
EXT DOOR DEMO	OVERHEAD DOORS	288.00 SQFT			585.00	
ELECTRICAL	CONDUIT/WIRE (2" AND LESS)	ABOVE GRADE	B	1.99	3.99	.33
ELECTRICAL DEMO	2" DIAMETER & LESS	304.55 LNFT			585.00	
ELECTRICAL	ELECTRICAL TRANSFORMERS	ABOVE GRADE	B	20.00	40.00	.50
ELECTRICAL DEMO	ELECTRICAL TRANSFORMERS	1.00 EACH			.00	
ELECTRICAL	MISCELLANEOUS ELECTRICAL ITEMS	ABOVE GRADE	B	50.00	100.00	1.25
ELECTRICAL DEMO	MISCELLANEOUS ELECTRICAL ITEMS	5.00 EACH			.00	
EQUIPMENT	HVAC EQUIPMENT	ABOVE GRADE	B	2.00	7.00	.06
EQUIPMENT DEMO	HVAC EQUIPMENT	2.00 CUFT			.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	H	10.62	12.75	.02
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	66.39 CUFT			.00	
FABRIC	FABRIC ROOF	ABOVE GRADE	I	12.92	25.83	.42
FABRIC ROOF DEMO	FABRIC ROOF	5000.00 SQFT			585.00	
FABRIC	FABRIC WALLS	ABOVE GRADE	I	5.68	11.37	.18
FABRIC WALL DEMO	FABRIC WALLS	2200.00 SQFT			585.00	
MISCELLANEOUS	PERSONAL PROTECTIVE EQUIPMENT	ABOVE GRADE	I	55.77	66.92	.08
PERSONAL PROTECTIVE EQUIPMENT DEMO	PERSONAL PROTECTIVE EQUIPMENT	66.39 CUFT			.00	

APPENDIX D
OU3 RI/FS CATEGORY J QUANTITIES

Appendix D contains OU3 RI/FS Category J quantities from the "Inventory" module of the SWIFTS database as of August 21, 1995. This appendix presently does not quantify all materials within OU3 RI/FS Category J. Only quantities for containerized waste/material were available.

The SWIFTS is a database application developed to assist FEMP personnel with tracking, forecasting and reporting materials generated or stored at the FEMP site. The system has been developed in three main modules, two of which recreate and enhance the functions of existing site systems. The Inventory Module, used for material tracking and shipment, is based on the All Materials Inventory and Tracking System (AMITS) used by Materials Control and Accountability (MC&A). The Material Evaluation Form (MEF) Module, used for waste characterization, is based on the MEF database managed by Waste Characterization. Each of these modules is updated on a daily basis by their respective FEMP organization. The Forecasting Module has been incorporated to forecast storage, treatment, and shipping requirements for wastes generated through removal or remedial actions implemented at the site. With this system, data that once existed in several databases at the FEMP site are now provided in a single repository.

The product and residues portion of OU3 RI/FS Category J - Product, Residues, and Special Materials is comprised of materials that are currently in inventory (i.e., containerized material in storage). The material is currently in inventory for two basic reasons:

- It was in inventory, either as a waste, a product, or an intermediate product intended for processing, when production operations at the FEMP ceased in 1989; or
- It has been generated as a result of removal actions or daily operation and maintenance activities at the FEMP since production ceased.

The containerized inventoried material presented in this appendix has been quantified into three main categories: Product, Thorium, and Other hazardous/mixed and low-level wastes. Each category is further divided into subsections based on the three possible waste types contained in each: Non-RCRA (LLW), RCRA (hazardous/mixed), and uncharacterized. Due to the changing nature of data contained in the SWIFTS, a snapshot of the Inventory Module of the database was established on August 21, 1995 and the resulting data set was used to prepare the tables for this appendix. Each table includes locations, detailed material descriptions, the number of containers, and net weights for each of the three main categories and their three subsections. Various aspects of the tables are described below:

<u>Product</u>
The FEMP currently has an inventory of approximately 17 million pounds of uranium metal products which have uranium concentrations in excess of typical economic discard levels (EDL) and, therefore, may have commercial value. Several varying types of materials are included in this category, ranging from contaminated soil, rocks, sand, bricks and ceramics to fuel elements and cores.

The FEMP is pursuing several options for these materials, including the following:

- Use in other DOE programs;
- Use at other government facilities;
- Sale to the private sector; or
- Relocation to, and storage at, other DOE facilities.

If efforts toward all of these options are unsuccessful, the FEMP will seek declaration of these materials as "wastes", and subsequent off-site disposal consistent with the strategy for low-level wastes (Removal No. 9).

Thorium
The FEMP refined thorium into a variety of end products from the early 1950s through the early 1970s. Because of its extensive thorium capabilities, the FEMP was designated as the DOE's national repository for thorium. The FEMP currently has approximately four million pounds of thorium inventory on site. Much of the thorium material stored at the site has now been designated as "excess", making it available for disposal.

Other
Materials contained in this category consist of containerized inventory at the FEMP which is not classified as either thorium or product.

The three main categories (Product, Thorium, and Other) have been subdivided into three waste types, Non-RCRA, RCRA, and uncharacterized. The three waste types are described below.

Non-RCRA (Low-Level Waste Inventory)
Material whose uranium does not exceed the economic discard limit and is not hazardous is classified as low-level waste. The FEMP currently contains approximately ten million pounds of LLW, including thorium wastes, but not nuclear material/product.

RCRA (Hazardous/Mixed Waste Inventory)
The hazardous/mixed waste inventory is material that has been characterized, either by sampling and analysis or process knowledge, as hazardous under Ohio hazardous waste regulations. This material has been generated by removal actions and/or closure of Hazardous Waste Management Units (HWMUs), as well as ongoing site activities. The current inventory of this material is approximately six million pounds, and includes hazardous/mixed materials from all three categories.

Uncharacterized
A significant amount of material (nearly seven million pounds, including thorium materials) has not yet been characterized, although there is an ongoing waste-characterization program implemented at the FEMP. Uncharacterized materials are stored based on their origin and process knowledge, therefore materials suspected of being hazardous are currently being stored in RCRA storage facilities.

As stated above, this appendix contains information which will fluctuate as materials are relocated within the FEMP site and materials are shipped off-site for final disposal.

The only containerized material not included in OU3 RI/FS Category J is the Copper Scrap Metal Pile. The copper scrap metal pile is in OU3 RI/FS Category H and consists of 168 containers amounting to 1,663,876 net pounds.

000647

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: FINISHED PRODUCTS WAREHOUSE			
CALCIUM URANATE	123	60	15,700
CLEAN PRILL FOR DOUBLE MELTING	218	2	702
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	8	2,490
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	2	174
INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	103	17	26,600
MARK 15 EXTRUDED TUBES - INNER	451	1	31
MATERIAL HELD FOR HISTORICAL PURPOSES	098	1	54
METAL SPILLS AND EXTRUSION ENDS: METAL HIGH IN IMPURITIES AND SPILLS	104	3	1,340
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	1	19
OFF-SPEC UF4 OR THF4	082	4	2,400
OXIDES CLAD OR MIXED WITH STAINLESS STEEL	142	11	4,820
PARTIALLY OXIDIZED METAL FOR DISSOLVER	130	1	727
PICKLED PRIMARY INGOT SECTIONS CONTAINING FIRST GENERATION TOP CROPS	314	1	349
PICKLED PRIMARY INGOT SECTIONS CONTAINING NO TOP CROP METAL	315	2	1,190
ROCKWELL SPILLS	070	1	130
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	1	11
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	2	1,240
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	154	57,200
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	1	28
SCRAP UO2	102	1	84
SOLID METAL FOR PICKLING AND DOUBLE MELTING, OTHER THAN FIRST GENERATION TOP CROPS	238	1	5
U3O8 - NOT REQUIRING RE-OXIDATION	165	10	3,110
U3O8 -8 MESH FROM ROTEXING OF OTHER THAN PLANT 8'S OWN PRODUCTS - LOW FLUORIDE	155	5	3,530
U3O8, +8 MESH - LOW FLUORIDE	122	7	3,870
UF4 FROM PILOT PLANT UF6	211	3	497

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000679

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
UF4 OR THF4	210	1	12
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	31	28,200
UO2 OR THO2 PRODUCT	202	1	105
UO3 PRODUCT	200	5	434
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	3	385
ZIRCONIUM CLAD METAL, FROM OFF-SITE, TO BE DECLAD BY ZIRNLO SYSTEM	113	19	8,430
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	95	129,000
FINISHED PRODUCTS WAREHOUSE Total:			**293,000**
LOCATION: GENERAL IN-PROCESS WAREHOUSE			
CALCIUM URANATE	123	1	219
GENERAL IN-PROCESS WAREHOUSE Total:			**219**
LOCATION: HEALTH AND SAFETY BUILDING			
DUST COLLECTOR BAGS	029	4	237
OFF-SPEC UF4 OR THF4	082	8	1,070
REJECT UO3	157	1	71
SCRAP UO2	102	3	135
HEALTH AND SAFETY BUILDING Total:			**1,510**
LOCATION: OLD PLANT 5 WAREHOUSE			
UF4 OR THF4	210	113	572,000
UO3 PRODUCT	200	75	370,000
UO3 REACTOR RECYCLE TAILS	201	1	12,200
OLD PLANT 5 WAREHOUSE Total:			**954,000**

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PILOT PLANT AREA			
OFF-SPEC UF4 OR THF4	082	3	521
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	1	12
UF4 OR THF4	210	2304	564,000
PILOT PLANT AREA Total:			**565,000**
LOCATION: PLANT 1 AREA			
CALCIUM URANATE	123	139	38,100
CHEMICAL REJECT SOLID METAL FOR PICKLING PRIOR TO REMELT	251	37	18,300
CHEMICAL REJECT SOLID REMELT METAL - DOES NOT REQUIRE PICKLING	322	2	1,210
CLAD URANIUM METAL: DECLAD BY MACHINING OR CHEMICAL TREATMENT	128	125	119,000
CLEAN PRILL FOR DOUBLE MELTING	218	47	28,700
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	2	283
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	2	56
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	2	57
CONTAMINATED CARBON FILTER ELEMENTS	026	6	1,100
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	5	86
DECLAD METAL, OTHER THAN ZIRNLO	337	22	24,900
DERBIES, CODE 1 AND CODE 3	300	2	617
DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U CONTENT	129	2	1,050
DUST COLLECTOR BAGS	029	73	5,470
DUST COLLECTOR RESIDUE, HIGH FLUORIDE, GREATER THAN 20% ASSAY	135	8	2,040
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	50	17,600
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	10	2,420
DUST COLLECTOR RESIDUES, PYROPHORIC, HIGH FLUORIDE	064	1	56
EXPERIMENTAL SHAPES - INCLUDING CLASSIFIED SHAPES NOT TO BE CRUSHED	306	2	301

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Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
EXTRUSION BUTTS TO BE PICKLED	236	102	83,100
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	20	4,500
INCINERATOR ASHES - MATERIAL PASSING THROUGH GRATE OR SCREEN	032	2	27.3
INCINERATOR CINDERS - MATERIAL NOT PASSING THROUGH GRATE OR SCREEN	033	11	6,510
INGOT CROPS AND DUDS	308	3	3,720
INGOTS FROM OFF-SITE TO BE REWORKED	246	18	17,400
LEAD AND LEAD-CONTAMINATED MATERIALS	049	5	2,310
MATERIAL HELD FOR HISTORICAL PURPOSES	098	19	448
METAL FROM SPILLS FOR DOUBLE MELTING	219	107	86,100
METAL SAMPLES FOR DOUBLE MELTING	227	19	5,220
METAL SPILLS AND EXTRUSION ENDS: METAL HIGH IN IMPURITIES AND SPILLS	104	1	112
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	2	3
NON-BURNABLE METAL WITH URANIUM CONTENT	053	1	112
OFF-SPEC UF4 OR THF4	082	63	23,500
OXIDES CLAD OR MIXED WITH ZIRCONIUM	140	7	243
OXIDES SUITABLE FOR CASCADE FEED	152	1	3.9
PARTIALLY OXIDIZED METAL FOR DISSOLVER	130	1	14
PARTIALLY OXIDIZED METAL FOR SORTING CONTAINING METL-X	080	2	801
PARTIALLY OXIDIZED METAL OXIDATION FEED	131	7	4,540
PICKLED CHEMICAL REJECT CROPS	333	30	18,700
PICKLED CROPS FROM HW METAL	313	8	5,790
PICKLED EXTRUSION BUTTS	336	3	2,050
PICKLED PRIMARY INGOT SECTIONS CONTAINING FIRST GENERATION TOP CROPS	314	12	14,400
PICKLED PRIMARY INGOT SECTIONS CONTAINING NO TOP CROP METAL	315	4	2,120
PRIMARY INGOT SECTIONS, NOT PICKLED, CONTAINING FIRST GENERATION TOP CROPS	330	4	2,410
REJECT ELEMENTS - INNER	324	3	2,080
REJECT ELEMENTS - OUTER	323	5	2,520

000651

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
REJECT UO3	157	4	554
ROASTED MGF2 (BLENDED WITH OTHER MATERIALS)	031	37	21,500
ROCKWELL CLEANINGS	071	5	1,950
ROCKWELL SPILLS	070	8	6,340
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	54	2,540
SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING FIRST GENERATION TOP CROPS	230	12	12,900
SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING NO TOP CROP METAL	231	4	5,620
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	97	31,000
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	1	832
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	92	32,400
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	60	1,930
SCRAP UO2	102	50	7,200
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	1	692
SOLID METAL - INCLUDES PHYSICAL BUT NOT CHEMICAL REJECT INGOTS; TO BE SAWED OR CRUSHED AND PICKL	222	22	25,600
SOLID METAL FOR PICKLING PRIOR TO REMELT DOES NOT REQUIRE BLENDING (< 12")	221	1	586
SOLID METAL TO BE PICKLED	228	591	590,000
SOLID METAL TO BE SAWED, SHEARED OR CRUSHED, BUT NOT PICKLED PRIOR TO REMELT	223	5	2,730
SOLID METAL, NOT PICKLED, OTHER THAN SPILLS AND TOP CROPS, FOR DOUBLE MELT	224	14	13,000
SOLID REMELT METAL - LOW IMPURITIES - DOES NOT REQUIRE BLENDING OR PICKLING - NOT FROM DOUBLE MEL	304	2	829
SR STANDARD SOLID METAL - FOR REMELT	311	6	5,320
U3O8 - NOT REQUIRING RE-OXIDATION	165	122	2,390
U3O8 -8 MESH FROM ROTEXING OF OTHER THAN PLANT 8'S OWN PRODUCTS - LOW FLUORIDE	155	159	151,000
U3O8 FROM RECYCLE UO3 (ROR PROCESS)	214	2	1,580
U3O8, +8 MESH - LOW FLUORIDE	122	11	5,490
UF4 FROM HANFORD UO3	212	21	2,950
UF4 FROM PILOT PLANT UF6	211	209	87,400
UF4 OR THF4	210	60	13,200

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000653

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	301	225,000
UNROASTED BUT MILLED MGF2 (BLENDED WITH OTHER MATERIALS)	088	151	93,900
UO2 (OR THO2) PELLETS - REFINERY FEED	166	84	1,310
UO2 (OR THO2) POWDER - REFINERY FEED	167	23	154
UO2 OR THO2 PRODUCT	202	7	5,770
UO3 PRODUCT	200	29	20,800
UO3 REACTOR RECYCLE TAILS	201	155	98,900
URANIUM ALLOYED OR CANNED WITH ELEMENTS OTHER THAN ALUMINUM, MOLYBDENUM OR ZIRCONIUM	139	1	23
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	84	22,000
ZIRCONIUM CLAD METAL, FROM OFF-SITE, TO BE DECLAD BY ZIRNLO SYSTEM	113	29	11,600
ZIRNLO; PARTIALLY DECLAD FUEL ELEMENTS	124	3	1,870
PLANT 1 AREA Total:			**2,060,000**
LOCATION: PLANT 4 AREA			
UO3 REACTOR RECYCLE TAILS	201	1	778
PLANT 4 AREA Total:			**778**
LOCATION: PLANT 4 WAREHOUSE			
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	52
UF4 FROM PILOT PLANT UF6	211	1	250
UF4 OR THF4	210	9514	2,430,000
PLANT 4 WAREHOUSE Total:			**2,430,000**
LOCATION: PLANT 5 AREA			
CHEMICAL REJECT SOLID METAL FOR PICKLING PRIOR TO REMELT	251	14	6,340
CHEMICAL REJECT SOLID REMELT METAL - DOES NOT REQUIRE PICKLING	322	19	13,200

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
CHIPS EMBEDDED IN CONCRETE - HIGH CALCIUM	106	2	104
CLEAN PRILL FOR DOUBLE MELTING	218	8	2,880
CODE 2 DERBIES FOR DOUBLE MELTING OR SHOT CLEANING	220	1	370
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	1	270
CONTAMINATED CARBON FILTER ELEMENTS	026	2	390
DERBIES, CODE 1 AND CODE 3	300	1069	397,000
DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U CONTENT	129	8	4,540
DOUBLE MELT INGOTS TO BE SAWED, BUT NOT PICKLED, PRIOR TO REMELT	241	906	734,000
DUST COLLECTOR BAGS	029	73	4,440
DUST COLLECTOR RESIDUE, HIGH FLUORIDE, GREATER THAN 20% ASSAY	135	1	103
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	98	35,900
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	41	15,000
EXTRUSION BUTTS TO BE PICKLED	236	14	6,140
INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	103	120	205,000
INGOTS FROM OFF-SITE TO BE REWORKED	246	26	39,800
LEAD AND LEAD-CONTAMINATED MATERIALS	049	24	16,900
METAL FROM SPILLS FOR DOUBLE MELTING	219	13	14,000
METAL SAMPLES FOR DOUBLE MELTING	227	6	365
METAL SPILLS AND EXTRUSION ENDS: METAL HIGH IN IMPURITIES AND SPILLS	104	8	6,670
N REACTOR RAW BILLETS - SAWED EXTRUSIONS	454	2	1,320
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	2	177
OFF-SPEC UF4 OR THF4	082	5	2,820
PARTIALLY OXIDIZED METAL FOR DISSOLVER	130	32	11,000
PHYSICAL REJECT BILLETS TO BE SAWED PRIOR TO REMELT	234	6	6,650
PICKLED CHEMICAL REJECT CROPS	333	2	2,850
PICKLED CROPS FROM HW METAL	313	57	38,100
PICKLED EXTRUSION BUTTS	336	1	646

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Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
PICKLED PRIMARY INGOT SECTIONS CONTAINING FIRST GENERATION TOP CROPS	314	19	14,000
PICKLED PRIMARY INGOT SECTIONS CONTAINING NO TOP CROP METAL	315	18	12,700
PRIMARY INGOT SECTIONS, NOT PICKLED, CONTAINING FIRST GENERATION TOP CROPS	330	3	1,050
REJECT UO3	157	4	280
ROCKWELL CLEANINGS	071	5	2,320
ROCKWELL SPILLS	070	5	1,370
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	17	1,160
SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING FIRST GENERATION TOP CROPS	230	7	5,680
SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING NO TOP CROP METAL	231	33	22,500
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	75	25,800
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	261	107,000
SCRAP UO2	102	2	1,650
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	1	337
SOLID METAL - INCLUDES PHYSICAL BUT NOT CHEMICAL REJECT INGOTS; TO BE SAWED OR CRUSHED AND PICKL	222	90	71,200
SOLID METAL FOR PICKLING AND DOUBLE MELTING, OTHER THAN FIRST GENERATION TOP CROPS	238	1	85
SOLID METAL TO BE PICKLED	228	155	123,000
SOLID METAL, OTHER THAN CORES, WITH EMBEDDED STEEL	119	5	1,120
SOLID REMELT METAL - LOW IMPURITIES - DOES NOT REQUIRE BLENDING OR PICKLING - NOT FROM DOUBLE MEL	304	3	1,150
SR STANDARD SOLID METAL - FOR REMELT	311	1	585
TUBULAR ELEMENTS TO BE CRUSHED	235	1	10
U3O8 - NOT REQUIRING RE-OXIDATION	165	25	11,000
U3O8 -8 MESH FROM ROTEXING OF OTHER THAN PLANT 8'S OWN PRODUCTS - LOW FLUORIDE	155	16	13,000
U3O8, +8 MESH - LOW FLUORIDE	122	78	42,400
UF4 FROM PILOT PLANT UF6	211	5	527
UF4 OR THF4	210	19	2,390
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	29	25,200
UO3 PRODUCT	200	391	436,000

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
UO3 REACTOR RECYCLE TAILS	201	7	1,320
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	28	4,240
ZIRCONIUM CLAD METAL, FROM OFF-SITE, TO BE DECLAD BY ZIRNLO SYSTEM	113	95	54,700
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	38	24,200
ZIRNLO PRODUCT	307	12	8,450
ZIRNLO; PARTIALLY DECLAD FUEL ELEMENTS	124	6	5,910
PLANT 5 AREA Total:			**2,590,000**
LOCATION: PLANT 6 AREA			
CALCIUM URANATE	123	994	237,000
CHEMICAL REJECT SOLID METAL FOR PICKLING PRIOR TO REMELT	251	18	25,700
CODE 2 DERBIES FOR DOUBLE MELTING OR SHOT CLEANING	220	5	1,350
CRUSHED TUBULAR ELEMENTS	335	17	19,000
DERBIES, CODE 1 AND CODE 3	300	917	279,000
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	305	118,000
INGOT CROPS AND DUDS	308	2	2,090
INGOTS FROM OFF-SITE TO BE REWORKED	246	1	1,800
MARK 25 ELEMENTS - INNER	509	13	13,700
MARK 25 ELEMENTS - OUTER	510	28	16,900
METAL FROM SPILLS FOR DOUBLE MELTING	219	9	12,700
METAL SAMPLES FOR DOUBLE MELTING	227	25	3,150
PARTIALLY OXIDIZED METAL FOR DISSOLVER	130	2	992
PICKLED CHEMICAL REJECT CROPS	333	1	1,740
REJECT ELEMENTS - INNER	324	2	493
ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	143	514	201,000
ROASTED MGF2 (BLENDED WITH OTHER MATERIALS)	031	2	1,160

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000657

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
ROASTED, MILLED AND/OR SCREENED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	159	355	74,900
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	1	57
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	11	4,760
SCRAP UO2	102	2	232
SOLID METAL - INCLUDES PHYSICAL BUT NOT CHEMICAL REJECT INGOTS; TO BE SAWED OR CRUSHED AND PICKL	222	3	3,930
SOLID METAL TO BE PICKLED	228	287	290,000
SOLID METAL, NOT PICKLED, OTHER THAN SPILLS AND TOP CROPS, FOR DOUBLE MELT	224	2	60
SOLID METAL, OTHER THAN CORES, WITH EMBEDDED STEEL	119	1	670
SR STANDARD SOLID METAL - FOR REMELT	311	3	3,570
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	6	4,310
UF4 FROM PILOT PLANT UF6	211	419	37,700
UF4 OR THF4	210	1	178
UNROASTED BUT MILLED MGF2 (BLENDED WITH OTHER MATERIALS)	088	27	17,800
UO3 PRODUCT	200	1	439
PLANT 6 AREA Total:			**1,370,000**
LOCATION: PLANT 6 WAREHOUSE			
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	27	6,340
PLANT 6 WAREHOUSE Total:			**6,340**
LOCATION: PLANT 8 WAREHOUSE			
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	1	60
PLANT 8 WAREHOUSE Total:			**60**
LOCATION: SIX TO FOUR REDUCTION FACILITY #1			
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	2	122

Summary of Inventory Materials
Product Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	2	570
SIX TO FOUR REDUCTION FACILITY #1 Total:			**692**
LOCATION: TENSION SUPPORT STRUCTURE #5			
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	251	89,700
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	6	1,250
TENSION SUPPORT STRUCTURE #5 Total:			**91,000**
LOCATION: UNKNOWN			
UF4 OR THF4	210	3	706
UNKNOWN Total:			**706**
GRAND TOTAL:			**10,400,000**

000658

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Summary of Inventory Materials
Product RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
LOCATION: CP STORAGE WAREHOUSE				
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	9	2,280	D011
CP STORAGE WAREHOUSE Total:			**2,280**	
LOCATION: KC-2 WAREHOUSE				
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	1	336	D001, D010
KC-2 WAREHOUSE Total:			**336**	
LOCATION: PLANT 1 AREA				
IMPURE URANYL OR THORIUM NITRATE - SOLID	160	12	148	D001
PURIFIED URANYL OR THORIUM NITRATE SOLUTION	204	1	216	D001, D002
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	2	1,110	F002
PLANT 1 AREA Total:			**1,470**	
LOCATION: PLANT 5 AREA				
IMPURE URANYL OR THORIUM NITRATE - SOLID	160	2	13	D001
PLANT 5 AREA Total:			**13**	
LOCATION: PLANT 6 WAREHOUSE				
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	1	192	D008
ROASTED MGF2 (BLENDED WITH OTHER MATERIALS)	031	7	5,170	D004, D008
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	1	185	D005

000659

Summary of Inventory Materials
Product RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	1	445	D007
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	211	48,000	D011
PLANT 6 WAREHOUSE Total:			**54,000**	
LOCATION: PLANT 8 WAREHOUSE				
DUST COLLECTOR BAGS	029	2	64	D007
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	2	114	F001
PLANT 8 WAREHOUSE Total:			**178**	
LOCATION: TENSION SUPPORT STRUCTURE #5				
OFF-SITE SUMP AND FILTER CAKES AFTER ROASTING AT FMPC	144	36	19,500	D007
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	751	D007, D008
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	6	2,540	D004
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	3	41	F002
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	244	118,000	F002
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	5	1,060	D011
TENSION SUPPORT STRUCTURE #5 Total:			**142,000**	
GRAND TOTAL:			**200,000**	

000560

2558

Summary of Inventory Materials
Product Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: FINISHED PRODUCTS WAREHOUSE			
CLAD METAL FOR ACID DISSOLUTION - NOT FOR ZIRNLO PROCESSING	141	2	102
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	100	74,400
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	1	249
FINISHED PRODUCTS WAREHOUSE Total:			**74,800**
LOCATION: OLD PLANT 5 WAREHOUSE			
UO3 REACTOR RECYCLE TAILS	201	112	1,030,000
OLD PLANT 5 WAREHOUSE Total:			**1,030,000**
LOCATION: PILOT PLANT AREA			
UF4 FROM PILOT PLANT UF6	211	2315	579,000
PILOT PLANT AREA Total:			**579,000**
LOCATION: PLANT 1 AREA			
CHEMICAL REJECT SOLID METAL FOR PICKLING PRIOR TO REMELT	251	5	7,370
CLAD METAL FOR ACID DISSOLUTION - NOT FOR ZIRNLO PROCESSING	141	3	25
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	4	1,120
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	2	272
OXIDE FOR SCREENING AND MILLING	192	1	18
OXIDES CLAD OR MIXED WITH STAINLESS STEEL	142	3	420
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	2	22.5
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	2	206
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	3	142
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	2	135
SOLID METAL TO BE PICKLED	228	1	238

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Summary of Inventory Materials
Product Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
U3O8 FOR REOXIDATION	134	1	60
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	94	64,400
UF4 OR THF4	210	2	305
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	4	2,530
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	4	592
PLANT 1 AREA Total:			**77,900**
LOCATION: PLANT 4 WAREHOUSE			
OFF-SPEC UF4 OR THF4	082	9	704
UF4 FROM HANFORD UO3	212	3238	598,000
UF4 FROM PILOT PLANT UF6	211	4258	882,000
PLANT 4 WAREHOUSE Total:			**1,480,000**
LOCATION: PLANT 5 AREA			
CHARGED UF4 POTS, WIP	216	1	1,000
CHEMICAL REJECT SOLID REMELT METAL - DOES NOT REQUIRE PICKLING	322	2	2,120
CODE 2 DERBIES FOR DOUBLE MELTING OR SHOT CLEANING	220	198	67,500
DOUBLE MELT INGOTS TO BE SAWED, BUT NOT PICKLED, PRIOR TO REMELT	241	2	1,870
DUST COLLECTOR BAGS	029	4	727
INGOT CROPS AND DUDS	308	3	2,590
MARK 31 CASTINGS - FINISHED - OUTER	409	1	1,020
MARK 31 CASTINGS - RAW - INNER	406	16	9,130
MARK 31 CASTINGS - RAW - OUTER	407	670	748,000
METAL FROM SPILLS FOR DOUBLE MELTING	219	2	1,810
METAL SAMPLES FOR DOUBLE MELTING	227	24	6,440
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	1	50

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Summary of Inventory Materials
Product Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
PICKLED PRIMARY INGOT SECTIONS CONTAINING FIRST GENERATION TOP CROPS	314	1	166
PICKLED PRIMARY INGOT SECTIONS CONTAINING NO TOP CROP METAL	315	1	479
PICKLED REJECT BILLETS OR BILLET SECTIONS	327	1	1,880
PRIMARY INGOT SECTIONS, NOT PICKLED, CONTAINING FIRST GENERATION TOP CROPS	330	55	40,800
REJECT BILLETS, INCLUDING SAWED BILLET SECTIONS	326	6	4,640
U3O8 FOR REOXIDATION	134	1	25
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	12	7,610
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	4	2,790
PLANT 5 AREA Total:			**901,000**
LOCATION: PLANT 6 AREA			
CHEMICAL REJECT SOLID REMELT METAL - DOES NOT REQUIRE PICKLING	322	2	1,260
DOUBLE MELT INGOTS TO BE SAWED AND PICKLED PRIOR TO REMELT	240	191	274,000
MARK 31 ELEMENTS - INNER	500	378	388,000
MARK 31 ELEMENTS - OUTER	501	1099	941,000
METAL FROM SPILLS FOR DOUBLE MELTING	219	1	1,600
N REACTOR INGOTS - FINISHED	410	208	323,000
N REACTOR INGOTS - RAW	404	28	40,400
SPECIAL MACHINED SHAPES	506	1	459
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	131	88,200
ZIRCONIUM CLAD METAL, FROM OFF-SITE, TO BE DECLAD BY ZIRNLO SYSTEM	113	1	45
PLANT 6 AREA Total:			**2,060,000**
GRAND TOTAL:			**6,200,000**

Summary of Inventory Materials
Thorium Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: GENERAL IN-PROCESS WAREHOUSE			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	0
GENERAL IN-PROCESS WAREHOUSE Total:			
LOCATION: OLD PLANT 5 WAREHOUSE			
OXIDES CLAD OR MIXED WITH ZIRCONIUM	140	1	35
THORIUM HYDROXIDE, DRY	215	4031	1,790,000
OLD PLANT 5 WAREHOUSE Total:			**1,790,000**
LOCATION: PLANT 1 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	5
CONTAMINATED STEEL AFTER WASHING AND/OR CLEANING	004	1	1,770
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	18	7,800
NON-BURNABLE METAL WITH URANIUM CONTENT	053	1	929
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	6	65
PLANT 1 AREA Total:			**10,600**
LOCATION: PLANT 2/3 AREA			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	12,600
PLANT 2/3 AREA Total:			**12,600**
LOCATION: PLANT 9 WAREHOUSE			
THORIUM RESIDUES	090	150	591,000
PLANT 9 WAREHOUSE Total:			**591,000**

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Summary of Inventory Materials
Thorium Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: QUONSET HUT #1			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	423
OFF-SPEC THO2; FRENCH SOURCE	151	1	398
OFF-SPEC UF4 OR THF4	082	27	19,100
OXIDES CLAD OR MIXED WITH ZIRCONIUM	140	5	8,550
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	1	312
THORIUM RESIDUES	090	134	372,000
U OR TH NITRATE SOLUTIONS, HIGH IMPURITY SUCH AS ZIRNLO DECOPPERING SOLUTIONS FOR REFINERY PROCES	072	6	187
QUONSET HUT #1 Total:			**401,000**
LOCATION: THORIUM WAREHOUSE			
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	2	128
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	5	34
THORIUM RESIDUES	090	129	536,000
THORIUM WAREHOUSE Total:			**536,000**
LOCATION: UNKNOWN (BLANK)			
UO2 (OR THO2) POWDER - REFINERY FEED	167	1	496
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	2	304
UNKNOWN (BLANK) Total:			**800**
GRAND TOTAL:			**3,340,000**

Summary of Inventory Materials
Thorium RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
LOCATION: KC-2 WAREHOUSE				
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	4	613	D001
KC-2 WAREHOUSE Total:			**613**	
LOCATION: PILOT PLANT WAREHOUSE				
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	2	128	D005
THORIUM RESIDUES	090	5	10,100	D001, D002, D007, D008
TRAILER CAKES, WASTE SLURRIES, RAFFINATES NOT MEETING DISCARD SPECIFICATION	007	1	402	D002, D005, D009
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	1	2	D001, D003
UO2 (OR THO2) POWDER - REFINERY FEED	167	1	68	D008
URANYL OR THORIUM NITRATE SOLUTION	150	2	1,140	D002, D007, D008
PILOT PLANT WAREHOUSE Total:			**11,800**	
GRAND TOTAL:			**12,500**	

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Summary of Inventory Materials
Thorium Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight
LOCATION: OLD PLANT 5 WAREHOUSE			
THORIUM HYDROXIDE, DRY	215	1536	686,000
WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED	067	34	10,200
OLD PLANT 5 WAREHOUSE Total:			**696,000**
LOCATION: PILOT PLANT WAREHOUSE			
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	1	5
DUST COLLECTOR BAGS	029	1	61
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	3
SAWDUST FOR OXIDATION	109	1	38
PILOT PLANT WAREHOUSE Total:			**107**
LOCATION: PLANT 1 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	40	26,900
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	41	14,300
CONTAMINATED ASBESTOS MATERIALS	028	1	1,030
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	7	525
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	13	1,660
PLANT 1 AREA Total:			**44,400**
LOCATION: PLANT 1 THORIUM WAREHOUSE			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	5	170
PLANT 1 THORIUM WAREHOUSE Total:			**170**
LOCATION: QUONSET HUT #1			
METAL SAMPLES FOR DOUBLE MELTING	227	2	12

Summary of Inventory Materials
Thorium Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	35	7,600
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	8	52
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	144	37,300
SOLID METAL TO BE PICKLED	228	1	376
TRAILER CAKES, WASTE SLURRIES, RAFFINATES NOT MEETING DISCARD SPECIFICATION	007	2	68
QUONSET HUT #1 Total:			**45,400**
LOCATION: THORIUM WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	2	68
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	1	7
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	262
SAWDUST FOR OXIDATION	109	4	1,580
SOLID METAL TO BE PICKLED	228	2	10
THORIUM RESIDUES	090	1	4,010
U OR TH CHLORIDE OR FLUORIDE SOLUTIONS, HIGH IMPURITY - SUCH AS PLANT 8 METAL DISSOLVER PRODUCT -	073	2	18
U OR TH NITRATE SOLUTIONS, HIGH IMPURITY SUCH AS ZIRNLO DECOPPERING SOLUTIONS FOR REFINERY PROCES	072	5	60
THORIUM WAREHOUSE Total:			**6,020**
GRAND TOTAL:			**792,000**

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: BOILER PLANT			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	11	53,800
BOILER PLANT Total:			**53,800**
LOCATION: CHEMICAL WAREHOUSE			
CO-PACKAGED URANIUM RESIDUES	094	11	0
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	3	983
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	23	42,700
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	1	0
CHEMICAL WAREHOUSE Total:			**43,700**
LOCATION: CORRAL - FERMCO STORAGE AREA			
CO-PACKAGED URANIUM RESIDUES	094	12	54,400
CORRAL - FERMCO STORAGE AREA Total:			**54,400**
LOCATION: CP STORAGE WAREHOUSE			
CONTAMINATED OIL - SOLUBLE; COOLANT	009	1	316
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	2	387
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	3	951
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	2	833
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	9	3,160
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	3	915
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	1	615
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	14	3,690
CP STORAGE WAREHOUSE Total:			**10,900**

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: D&D BUILDING			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	9,050
D&D BUILDING Total:			**9,050**
LOCATION: DECONTAMINATION BUILDING			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	9	73,000
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	3	0
DECONTAMINATION BUILDING Total:			**73,000**
LOCATION: FINISHED PRODUCTS WAREHOUSE			
CO-PACKAGED URANIUM RESIDUES	094	8	31,600
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	1	708
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	4	1,800
DUST COLLECTOR BAGS	029	16	629
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	5	1,880
MGF2 FOR MILLING OR DISCARD	034	2	276
OFF-SPEC UF4 OR THF4	082	20	1,740
REJECT UO3	157	3	77
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	7	1,680
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	7	1,420
SCRAP UO2	102	9	1,550
UO2 OR THO2 PRODUCT	202	2	896
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	100	101,000
FINISHED PRODUCTS WAREHOUSE Total:			**145,000**

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: GENERAL IN-PROCESS WAREHOUSE			
CO-PACKAGED URANIUM RESIDUES	094	8	10,600
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	12	10,200
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	1	126
CONTAMINATED CARBON FILTER ELEMENTS	026	3	471
CONTAMINATED GRAPHITE - CRUSHED	024	1	198
CONTAMINATED METALLIC FILTER ELEMENTS	025	1	29
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	1	38
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	22	33,600
DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS)	055	19	19,600
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	524
DRUM DECONTAMINATION RESIDUES: WET MGF2	021	3	1,000
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	5	497
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	16	6,030
GRIT BLAST RESIDUE	008	3	1,420
HIGH LEVEL CLEANING RESIDUES	054	1	153
INCINERATOR CINDERS - MATERIAL NOT PASSING THROUGH GRATE OR SCREEN	033	2	7,230
INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	103	4	7,130
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	6	2,730
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	100	16,400
ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	143	1	342
ROASTED MGF2 (BLENDED WITH OTHER MATERIALS)	031	17	9,820
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	3	852
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	4	1,560
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	2	562
SLUDGES, NON-OILY, FOR OXIDATION, INCLUDING HIGH OR LOW FREE METAL	046	1	241

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED	067	16	3,780
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	6	1,370
GENERAL IN-PROCESS WAREHOUSE Total:			**137,000**
LOCATION: HEALTH AND SAFETY BUILDING			
DUST COLLECTOR BAGS	029	8	419
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	7	413
OFF-SPEC UF4 OR THF4	082	5	1,050
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	1	6
SCRAP UO2	102	1	278
HEALTH AND SAFETY BUILDING Total:			**2,170**
LOCATION: KC-2 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	73	0
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	1	34
CONTAMINATED OIL, INSOLUBLE	015	3	302
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	507
SLUDGES, OILY	039	1	572
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	1	14
KC-2 WAREHOUSE Total:			**1,430**
LOCATION: MAIN TANK FARM			
CONTAMINATED ASBESTOS MATERIALS	028	1	0
MAIN TANK FARM Total:			

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000573

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: OLD PLANT 5 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	2	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
REJECT UO3	157	116	2,390
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	11	0
OLD PLANT 5 WAREHOUSE Total:			**2,390**
LOCATION: PILOT PLANT ANNEX			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	7	0
PILOT PLANT ANNEX Total:			
LOCATION: PILOT PLANT AREA			
OFF-SPEC UF4 OR THF4	082	2	478
REJECT UO3	157	2	600
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	1	57
SCRAP UO2	102	1	16
PILOT PLANT AREA Total:			**1,150**
LOCATION: PILOT PLANT WAREHOUSE			
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	1	68
CONTAMINATED CARBON FILTER ELEMENTS	026	1	26
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	20	4,130
PCB MATERIALS, BALLAST, PCB-CONTAMINATED RAGS	050	1	70
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	6	624
PILOT PLANT WAREHOUSE Total:			**4,920**

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PILOT PLANT WET SIDE			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
PILOT PLANT WET SIDE Total:			
LOCATION: PLANT 1 AREA			
BIRD CARCASSES, DROPPINGS, AND CONTAMINATED MATERIALS	093	5	2,690
CHEMICAL REJECT PRIMARY INGOTS	120	2	667
CHIPS AND TURNINGS CONTAMINATED WITH NON-U MATERIALS - FOR OXIDATION	107	1	149
CLAD METAL FOR ACID DISSOLUTION - NOT FOR ZIRNLO PROCESSING	141	3	94.8
COLD METAL OXIDES - NON RADIUM-BEARING	095	7	0
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	43	11,700
CONTAMINATED COPPER - FOR DISCARD	016	147	117,000
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	290	92,000
CONTAMINATED OIL - SOLUBLE; COOLANT	009	4	1,280
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1605	1,070,000
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	12	5,260
CONTAMINATED STEEL AFTER WASHING AND/OR CLEANING	004	2	537
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	327	109,000
CONTAMINATED ZIRCONIUM	005	2	126
CONTAMINATED ASBESTOS MATERIALS	028	663	277,000
CONTAMINATED CAF2 - MGO	058	38	9,540
CONTAMINATED CARBON FILTER ELEMENTS	026	53	9,080
CONTAMINATED GRAPHITE - CRUSHED	024	12	3,910
CONTAMINATED MAGNESIUM	019	4	1,140
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	57	17,000
CONTAMINATED METALLIC FILTER ELEMENTS	025	26	2,960

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
CONTAMINATED OIL, INSOLUBLE	015	58	18,300
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	230	23,000
CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	022	68	26,700
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	1	712
DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS)	055	41	33,300
DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U CONTENT	129	255	227,000
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	451	199,000
DRUM DECONTAMINATION RESIDUES: WET MGF2	021	296	145,000
DRY CRUSHED SLAG FROM FURNACE POT BLOWOUTS	077	295	193,000
DUST COLLECTOR BAGS	029	517	43,000
DUST COLLECTOR RESIDUE, HIGH FLUORIDE, GREATER THAN 20% ASSAY	135	64	21,200
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	268	114,000
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	159	49,900
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	55	32,600
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	406	122,000
GLASS AND SAMPLE BOTTLES	014	72	3,500
GLASS FROM VITRIFICATION	603	27	8,440
GRIT BLAST RESIDUE	008	46	25,100
HIGH LEVEL CLEANING RESIDUES	054	5	936
INCINERATOR ASHES - MATERIAL PASSING THROUGH GRATE OR SCREEN	032	1	1
INCINERATOR CINDERS - MATERIAL NOT PASSING THROUGH GRATE OR SCREEN	033	574	156,000
LEAD AND LEAD-CONTAMINATED MATERIALS	049	2	2,080
MAGNESIUM OXIDE AND MAGNESIUM ZIRCONATE FROM CRUCIBLE CLEANOUT	030	137	60,800
MATERIAL HELD FOR HISTORICAL PURPOSES	098	4	304
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	1	12
METAL SPILLS AND EXTRUSION ENDS: METAL HIGH IN IMPURITIES AND SPILLS	104	9	2,280
METAL TO BE OXIDIZED	136	1	0

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
MGF2 FOR MILLING OR DISCARD	034	226	64,100
MGF2 OR CAF2, GOOD LINER MATERIAL	035	6	1,870
MGF2, +20 MESH, LOW U CONTENT, TO BE CRUSHED	038	13	5,960
MGF2, -20 MESH, HIGH FREE METAL FOR PLANT 8 ROASTING (ENRICHED ONLY)	036	25	15,000
MGF2, GROUND	037	11	2,130
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	16	9,850
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	1	255
NON-BURNABLE METAL WITH URANIUM CONTENT	053	41	30,100
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	374	220,000
OFF-SPEC UF4 OR THF4	082	143	50,200
OILY MGF2	023	2	624
ORE CONCENTRATE - MISCELLANEOUS	170	7	327
OXIDES CLAD OR MIXED WITH ALUMINUM	133	5	1,050
OXIDES CLAD OR MIXED WITH STAINLESS STEEL	142	2	108
OXIDES CLAD OR MIXED WITH ZIRCONIUM	140	22	6,570
PARTIALLY OXIDIZED METAL FOR DISSOLVER	130	3	4,570
PARTIALLY OXIDIZED METAL FOR SORTING CONTAINING METL-X	080	1	747
PARTIALLY OXIDIZED METAL FOR SORTING CONTAINING NO METL-X	081	3	1,150
PARTIALLY OXIDIZED METAL OXIDATION FEED	131	1	103
RADIUM-BEARING MATERIALS - SAMPLES, K-65, INCLUDING Q-11 CONTAMINATED MATERIALS	097	2	210
REJECT UO3	157	5	280
ROASTED, MILLED AND/OR SCREENED AMMONIUM-PRECIPITATED SUMP AND FILTER CAKES	163	2	1,280
ROCKWELL CLEANINGS	071	37	21,100
ROCKWELL SPILLS	070	106	89,700
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	68	7,070
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	223	105,000
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	73	25,900

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	168	50,700
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	4	525
SCRAP UO2	102	19	2,920
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	385	138,000
SLUDGES, NON-OILY, FOR OXIDATION, INCLUDING HIGH OR LOW FREE METAL	046	30	9,050
SLUDGES, OILY	039	17	7,560
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	7	2,290
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	5	2,310
SLUDGES, SALT, SOFT, NON-CHLORIDE	045	4	2,730
SOLID METAL, OTHER THAN CORES, WITH EMBEDDED STEEL	119	12	2,350
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	49	11,600
TRAILER CAKES, WASTE SLURRIES, RAFFINATES NOT MEETING DISCARD SPECIFICATION	007	50	16,300
U3O8 - NOT REQUIRING RE-OXIDATION	165	189	79,600
U3O8 - ROTEXED - OTHER THAN PLANT 8'S OWN PRODUCT	085	2	487
U3O8, +8 MESH - LOW FLUORIDE	122	28	18,300
UF4 FROM HANFORD UO3	212	1	140
UF4 OR THF4	210	1	158
UNRECYCLED SLAG +20 MESH, BALL MILL PRODUCT	125	36	34,700
UNROASTED BUT MILLED MGF2 (BLENDED WITH OTHER MATERIALS)	088	27	7,970
UO2 (OR THO2) PELLETS - REFINERY FEED	166	2	0.71
UO2 (OR THO2) POWDER - REFINERY FEED	167	2	2
URANIUM ALLOYED OR CANNED WITH ELEMENTS OTHER THAN ALUMINUM, MOLYBDENUM OR ZIRCONIUM	139	1	600
URANIUM CARBIDE, UC	161	1	4
WET CRUSHED SLAG FROM FURNACE POT BLOWOUTS	057	61	37,500
WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED	067	494	121,000
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	1188	430,000
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	1	584

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	3	1,960
PLANT 1 AREA Total:			**4,880,000**
LOCATION: PLANT 2 AREA			
WET CRUSHED SLAG FROM FURNACE POT BLOWOUTS	057	1	658
PLANT 2 AREA Total:			**658**
LOCATION: PLANT 2/3 AREA			
CONTAMINATED COPPER - FOR DISCARD	016	1	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	8	6,310
PLANT 2/3 AREA Total:			**6,310**
LOCATION: PLANT 4 WAREHOUSE			
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	1	272
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	411
SLUDGES, OILY	039	7	2,060
PLANT 4 WAREHOUSE Total:			**2,740**
LOCATION: PLANT 5 AREA			
BRIQUETTABLE CHIPS AND TURNINGS FROM STANDARD METAL	111	5	1,210
CO-PACKAGED URANIUM RESIDUES	094	13	56,000
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	159	63,800
CONTAMINATED ASBESTOS MATERIALS	028	1	0
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	1	271
CONTAMINATED METALLIC FILTER ELEMENTS	025	4	160
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	2	125

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	5	4,590
DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS)	055	63	44,000
DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U CONTENT	129	43	35,500
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	3	1,240
DRY CRUSHED SLAG FROM FURNACE POT BLOWOUTS	077	4	2,950
DUST COLLECTOR BAGS	029	4	255
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	6	2,770
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	9	2,370
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	4	914
HIGH LEVEL CLEANING RESIDUES	054	1	131
MGF2 FOR MILLING OR DISCARD	034	17	6,530
MGF2 OR CAF2, GOOD LINER MATERIAL	035	42	220,000
MGF2, +20 MESH, LOW U CONTENT, TO BE CRUSHED	038	51	29,500
MGF2, GROUND	037	1	621
NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION	110	43	8,010
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	8	1,520
PARTIALLY OXIDIZED METAL OXIDATION FEED	131	1	132
ROCKWELL CLEANINGS	071	1	401
ROCKWELL SPILLS	070	1	244
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	3	421
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	387
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	9	3,600
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	1	140
SLUDGES, NON-OILY, FOR OXIDATION, INCLUDING HIGH OR LOW FREE METAL	046	5	1,310
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	7	2,770
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	100	37,100
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	1	0

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
WET CRUSHED SLAG FROM FURNACE POT BLOWOUTS	057	2	1,410
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	42	13,500
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	25	15,800
PLANT 5 AREA Total:			**560,000**
LOCATION: PLANT 6 AREA			
BAD REDUCTION (NO DERBY)	084	1	546
BIRD CARCASSES, DROPPINGS, AND CONTAMINATED MATERIALS	093	1	2,920
CHIPS AND TURNINGS CONTAMINATED WITH NON-U MATERIALS - FOR OXIDATION	107	1	423
CO-PACKAGED URANIUM RESIDUES	094	16	36,800
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	1	82
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	4	1,310
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	184	69,500
CONTAMINATED CAF2 - MGO	058	2	419
CONTAMINATED CARBON FILTER ELEMENTS	026	3	349
CONTAMINATED GRAPHITE - CRUSHED	024	1	366
CONTAMINATED METALLIC FILTER ELEMENTS	025	4	848
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	4	5,100
DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS)	055	4	7,190
DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U CONTENT	129	1	907
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	565
DRY CRUSHED SLAG FROM FURNACE POT BLOWOUTS	077	1	204
DUST COLLECTOR BAGS	029	10	477
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	59	23,600
GRIT BLAST RESIDUE	008	4	2,110
INGOT CROPS AND DUDS	308	5	4,460

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
MAGNESIUM OXIDE AND MAGNESIUM ZIRCONATE FROM CRUCIBLE CLEANOUT	030	2	363
METAL SAMPLES FOR DOUBLE MELTING	227	1	252
METAL SPILLS AND EXTRUSION ENDS: METAL HIGH IN IMPURITIES AND SPILLS	104	1	48
MGF2 FOR MILLING OR DISCARD	034	13	5,640
MGF2 OR CAF2, GOOD LINER MATERIAL	035	1	732
MGF2, +20 MESH, LOW U CONTENT, TO BE CRUSHED	038	70	41,700
MGF2, GROUND	037	15	9,700
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	2	432
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	23	1,980
OXIDES CLAD OR MIXED WITH ALUMINUM	133	3	2,490
PHYSICAL REJECT BILLETS TO BE SAWED PRIOR TO REMELT	234	2	1,240
REJECT UO3	157	2	214
ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	143	16	5,360
ROASTED, MILLED AND/OR SCREENED AMMONIUM-PRECIPITATED SUMP AND FILTER CAKES	163	61	33,200
ROASTED, MILLED AND/OR SCREENED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	159	35	7,990
ROCKWELL CLEANINGS	071	1	640
ROCKWELL SPILLS	070	1	840
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	4	467
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	13	2,000
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	5	1,660
SCRAP UO2	102	3	1,470
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	6	0
SLUDGES, NON-OILY, FOR OXIDATION, INCLUDING HIGH OR LOW FREE METAL	046	105	42,500
SOLID METAL TO BE SAWED, SHEARED OR CRUSHED, BUT NOT PICKLED PRIOR TO REMELT	223	1	791
SOLID METAL, OTHER THAN CORES, WITH EMBEDDED STEEL	119	3	1,770
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	2	2,000
UNRECYCLED SLAG +20 MESH, BALL MILL PRODUCT	125	1	278

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
UNROASTED BUT MILLED MGF2 (BLENDED WITH OTHER MATERIALS)	088	12	5,770
UO2 (OR THO2) PELLETS - REFINERY FEED	166	3	404
WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED	067	4	876
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	272	100,000
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	6	4,410
PLANT 6 AREA Total:			**435,000**
LOCATION: PLANT 6 ELECTROSTATIC PRECIPITATOR CENTRAL			
MGF2 OR CAF2, GOOD LINER MATERIAL	035	1	14
PLANT 6 ELECTROSTATIC PRECIPITATOR CENTRAL Total:			**14**
LOCATION: PLANT 6 WAREHOUSE			
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	19	8,230
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	1	654
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	1	140
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	4	1,410
CONTAMINATED OIL, INSOLUBLE	015	1	129
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	44	12,900
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	6	2,140
SLUDGES, OILY	039	2	327
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	166	45,800
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	46	13,400
PLANT 6 WAREHOUSE Total:			**85,100**
LOCATION: PLANT 7 AREA			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	41,400

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
PLANT 7 AREA Total:			**41,400**
LOCATION: PLANT 8 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	36	16,800
CONTAMINATED OIL, INSOLUBLE	015	9	2,690
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	3	347
DRUM DECONTAMINATION RESIDUES: WET MGF2	021	1	414
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	6	3,360
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	11	4,280
HIGH LEVEL CLEANING RESIDUES	054	12	2,240
MAGNESIUM DIURANATE	091	5	2,390
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
ROCKWELL CLEANINGS	071	1	376
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	21	25,600
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	2	621
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	140	62,700
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	37	17,200
PLANT 8 AREA Total:			**139,000**
LOCATION: PLANT 8 WAREHOUSE			
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	40	10,800
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	1	256
CONTAMINATED STEEL AFTER WASHING AND/OR CLEANING	004	2	647
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	9	3,080
CONTAMINATED METALLIC FILTER ELEMENTS	025	1	31
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	1	77

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	35	9,090
ROCKWELL CLEANINGS	071	2	990
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	8	2,010
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	3	475
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	1	242
PLANT 8 WAREHOUSE Total:			**27,700**
LOCATION: PLANT 9 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	0
CONTAMINATED ASBESTOS MATERIALS	028	1	916
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
PLANT 9 AREA Total:			**916**
LOCATION: PLANT 9 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	7	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	6	0
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	14	0
PLANT 9 WAREHOUSE Total:			
LOCATION: QUONSET HUT #1			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	15	0
QUONSET HUT #1 Total:			
LOCATION: QUONSET HUT #3			
RADIUM-BEARING MATERIALS - SAMPLES, K-65, INCLUDING Q-11 CONTAMINATED MATERIALS	097	7	601

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Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
QUONSET HUT #3 Total:			**601**
LOCATION: SIX TO FOUR REDUCTION FACILITY #1			
BIRD CARCASSES, DROPPINGS, AND CONTAMINATED MATERIALS	093	4	217
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	5	1,470
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	475
OFF-SPEC UF4 OR THF4	082	2	417
REJECT UO3	157	2	562
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	2	1,570
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	2	195
ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY	076	78	104,000
SIX TO FOUR REDUCTION FACILITY #1 Total:			**109,000**
LOCATION: TENSION SUPPORT STRUCTURE #5			
CONTAMINATED ALUMINA - SODA LIME (HIGH C1)	018	8	3,450
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	423
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	156	66,100
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	1	468
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	2	406
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	29,900
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	13	4,590
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	44	12,800
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	67	19,000
TENSION SUPPORT STRUCTURE #5 Total:			**137,000**

Summary of Inventory Materials
Other Non-RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: THORIUM WAREHOUSE			
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	3	1,090
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	6	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	48	1,120
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	52	19,700
THORIUM WAREHOUSE Total:			**21,900**
LOCATION: UNKNOWN (0012)			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
UNKNOWN (0012) Total:			
LOCATION: UNKNOWN (0015)			
CONTAMINATED GRAPHITE - CRUSHED	024	1	82
UNKNOWN (0015) Total:			**82**
LOCATION: UNKNOWN (0056)			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	2	0
UNKNOWN (0056) Total:			
LOCATION: UNKNOWN (BLANK)			
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	1	641
UNKNOWN (BLANK) Total:			**641**
GRAND TOTAL:			**6,990,000**

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
LOCATION: CHEMICAL WAREHOUSE				
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	1	126	D009
CHEMICAL WAREHOUSE Total:			**126**	
LOCATION: CP STORAGE WAREHOUSE				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	550	F001
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	20	8,150	D001, D005, D007, D008, D009, D010, D011, D018, D019, D035, D039, F001, F002, F003, F005
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	1	373	D007, D008, D010
CONTAMINATED MERCO-DRI AND HILCO CAKE	020	1	447	D001, D039
CONTAMINATED OIL, INSOLUBLE	015	43	3,140	D001, D005, D006, D007, D008, D009, D010, D018, D039, F002
GRIT BLAST RESIDUE	008	1	412	D008
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	8	3,030	D007, D008, D010, F001
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	1	2	F002
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	4	1,320	D008, D019, F001, F002
SLUDGES, OILY	039	81	32,300	D001, D005, D008, D019, F002

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	9	2,430	D004, D019, D039, F002
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	22	8,110	D007, D009, D019, D029, D039, D040, F001, F002
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	20	7,260	D011, D039, D040, F002
CP STORAGE WAREHOUSE Total:			**67,500**	
LOCATION: FINISHED PRODUCTS WAREHOUSE				
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	1	171	D005
FINISHED PRODUCTS WAREHOUSE Total:			**171**	
LOCATION: GENERAL IN-PROCESS WAREHOUSE				
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	5	140	D007, D009, D011
GENERAL IN-PROCESS WAREHOUSE Total:			**140**	
LOCATION: KC-2 WAREHOUSE				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	18	7,950	D001, D007, D008, D018, D029, D030, D032, D033, D040, F002, F003, F005

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	212	28,400	D001, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D028, D029, D035, D038, D039, D040, F001, F002, F003, F005
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	112	42,300	D001, D002, D006, D007, D008, D009, D010, D018, D019, D021, D022, D028, D029, D035, D038, D039, D040, D043, F002, F003, F005
CONTAMINATED ASBESTOS MATERIALS	028	3	2,170	D001
CONTAMINATED MAGNESIUM	019	6	1,020	D001, D003
CONTAMINATED OIL, INSOLUBLE	015	14	1,740	D001, D006, D007, D008, D009, D010, D018, D039, F001, F002
CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	022	18	5,500	D001, D002, D005, D008, D009, D018, D019, D022, D039, F002, F003
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	8	2,800	D001
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	6	2,210	D001, D004, D008
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	27	3,200	D001, D007, D008, D018, D026, D029, D030, D032, D033, D035, D040, F001, F002, F003, F005, U159
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	8	981	D001, D002, D018, D021, D035, D038, D039, D040, D043, F002, F005
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	67	19,100	D001, D039
SLUDGES, OILY	039	7	2,280	D001, D019, F002
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	56	12,700	D001, D008, D010, D039, D040, F001, F002

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	26	8,890	D001, D007, D008, D009, D018, D035, F001, F002, F005
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	149	66,000	D001
UF6, URANIUM HEXAFLUORIDE	203	1	16	D003
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	1	124	D001, F002, F003, F005
KC-2 WAREHOUSE Total:			**207,000**	
LOCATION: PILOT PLANT WAREHOUSE				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	129	61,300	D002, D004, D007, D008, D011, F002, F005
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	2	910	D002, D007, D008, D019, D028, D039, F001, F002, F005
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	75	30,800	D002, D004, D007, D008, D009, D010, D018, D019, D028, D038, D039, F001, F002, F005
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	5	1,240	D029, D039, D040, F001
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	851	D002
LEAD AND LEAD-CONTAMINATED MATERIALS	049	24	8,760	D002, D008
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	2	643	D002, D019

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	20	1,570	D007, F002, F005, U134
PCB MATERIALS, BALLAST, PCB-CONTAMINATED RAGS	050	2	162	D004, D005, D006, D007, D008, D010, D018, F002
SLUDGES, OILY	039	57	16,800	D007, D008, D018, D029, D030, D032, D033, D040, F002, F005
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	2	596	D002, D007
PILOT PLANT WAREHOUSE Total:			**124,000**	
LOCATION: PLANT 1 AREA				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	6	3,090	D008, F001, F002
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	3	290	D001
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	10	4,260	D002, D008, D018
CONTAMINATED ASBESTOS MATERIALS	028	5	579	D008
CONTAMINATED MAGNESIUM	019	3	718	D001
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	1	4	U123
CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	022	2	659	D002, D005
DUST COLLECTOR BAGS	029	6	674	D004, D006, D007, D008

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	1	215	D005, D008
IMPURE URANYL OR THORIUM NITRATE - SOLID	160	1	38	D001
LEAD AND LEAD-CONTAMINATED MATERIALS	049	1	170	D002, D008
NON-BURNABLE METAL WITH URANIUM CONTENT	053	1	14	D006
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	7	1,010	D001, D009, D011, D018, D026, D039, F002, F003
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	2	259	D007
SLUDGES, OILY	039	1	254	D001, F002
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	50	22,100	D005
URANYL OR THORIUM NITRATE SOLUTION	150	1	25	D001, D002
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	2	652	D039, F002
PLANT 1 AREA Total:			**35,000**	
LOCATION: PLANT 2/3 AREA				
URANYL OR THORIUM NITRATE SOLUTION	150	18	2,290,000	D002, D005, D007
PLANT 2/3 AREA Total:			**2,290,000**	

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
LOCATION: PLANT 5 AREA				
CONTAMINATED MAGNESIUM	019	13	3,890	D001
IMPURE URANYL OR THORIUM NITRATE - SOLID	160	2	22	D001
PLANT 5 AREA Total:			**3,910**	
LOCATION: PLANT 6 WAREHOUSE				
BARIUM-CONTAMINATED MATERIALS	052	15	4,120	D005
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	.011	5	2,760	F001, F002
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	013	47	210,000	D001, D002, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D028, D029, D035, D039, D040, F001, F002, F003, F005, U019
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	14	5,860	D002, D007, D008, D019, D028, D039, F001, F002
CONTAMINATED ASBESTOS MATERIALS	028	1	845	D001
CONTAMINATED CARBON FILTER ELEMENTS	026	2	837	D040
CONTAMINATED OIL, INSOLUBLE	015	51	281,000	D001, D004, D005, D006, D007, D008, D009, D010, D011, D012, D018, D019, D021, D022, D026, D028, D029, D035, D038, D039, D040, D043, F001, F002, F003, F005, U211
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	3	479	D018, D029, D039, D040, F001
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	29	10,500	D001, D005, D008, D010, D039
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	11	3,260	D004, D006, D007, D008, D011

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	3	687	D005, D008
LEAD AND LEAD-CONTAMINATED MATERIALS	049	5	798	D008
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	14	2,640	D006, D007, D008, D009
NON-BURNABLE METAL WITH URANIUM CONTENT	053	1	1,110	D010
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	59	7,650	D004, D005, D006, D007, D008, D009, D018, D019, D022, D039, F001, F002, F003, F005, U019, U211
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	3	146	D007, F001, F002, F005
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	12	D009
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	1	373	F001
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	12	5,760	D019, D039, F001
SLUDGES, FOR BLENDING AND SCREENING	040	2	457	D007
SLUDGES, OILY	039	107	41,700	D001, D005, D007, D008, D010, D018, D019, D021, D028, D029, D039, D040, D043, F001, F002
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	8	4,200	D005, D006, D007, D008, D009, D010, D035, F001
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	2	472	D007, D011, D029, D039, F001
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	27	16,000	D001, D005, D007

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	15	7,090	F002
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	8	2,200	D005, D039, F002
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	95	25,300	D001, D008, D010, D011, D039, D040, F002
PLANT 6 WAREHOUSE Total:			**636,000**	
LOCATION: PLANT 8 AREA				
ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	143	2	113	F002
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	1	1,200	D007, D008
PLANT 8 AREA Total:			**1,310**	
LOCATION: PLANT 8 WAREHOUSE				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	38	20,800	D004, D005, D007, D008, D010, D011, F001, F002
CONTAMINATED ASBESTOS MATERIALS	028	9	2,070	D008, D009
CONTAMINATED METALLIC FILTER ELEMENTS	025	2	537	D008, D010
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	17	1,670	D005, D008, D011, D018, D029, D039, D040, F001, U210
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	172	D006, D007, D008
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	63	35,100	D005, D008

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
GRIT BLAST RESIDUE	008	874	632,000	D008, F002
LEAD AND LEAD-CONTAMINATED MATERIALS	049	29	42,700	D008
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	1	40	D006, D008, D009
NON-BURNABLE METAL WITH URANIUM CONTENT	053	15	7,900	D010
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	53	6,360	D001, D004, D005, D006, D007, D008, D009, D010, D011, D018, D019, D021, D022, D029, D039, D040, F001, F002, F003, F005
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	12	799	F001, F002, F005
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	27	14,600	D004, D005, D008, F001
SLUDGES, OILY	039	1	444	D039
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	7	5,130	D005
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	1	33	D009, F001, F002
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	4	1,160	D039, F002
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	22	8,750	D011, D039, D040, F002
PLANT 8 WAREHOUSE Total:			**780,000**	

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Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
LOCATION: TENSION SUPPORT STRUCTURE #5				
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	117	643,000	F001, F002, F005
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	14	4,070	D002, D007, D008, D009, D039, F001, F002
CONTAMINATED MAGNESIUM	019	1	113	D001
CONTAMINATED OIL, INSOLUBLE	015	4	2,150	D006, D008, D018, D039
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	15	1,320	D007, F001, F002, F003, F005
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	3	137	D006, D008, F005
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	3	318	D004, D006, D007, D008, D011
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	27	6,490	D004, D011
FURNACE SALT, SOLIDIFIED, NON-CHLORIDE	061	49	28,600	D007, D008, D010
GRIT BLAST RESIDUE	008	3	1,830	D008
LEAD AND LEAD-CONTAMINATED MATERIALS	049	8	18,400	D008
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY OF TRASH)	003	52	145,000	D004, D005, D006, D007, D008, D022, F001, F002, F003, F005, U134
OFF-SITE SUMP AND FILTER CAKES AFTER ROASTING AT FMPC	144	21	13,400	D007
ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES	143	182	47,300	F002

Summary of Inventory Materials
Other RCRA

Material Description	Material Code	Number of Containers	Net Weight (lbs.)	EPA Codes
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	8	1,480	D007, D008
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	25	6,480	D007, F001
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	581	269,000	D004, F002
SCRAP U3O8 OR THO2, LOW FLUORIDE	100	39	13,600	F002
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	11	5,670	D007, D008, D019, D039, F001
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	11	3,530	F002
SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)	044	69	31,300	D005, D007
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	1	677	D019, D039, F001, F002
U3O8 FOR REOXIDATION	134	24	7,840	D004
U3O8 ROTEXED PLANT 8 FURNACE PRODUCT	154	88	40,800	F002
U3O8, +8 MESH - LOW FLUORIDE	122	2	1,410	D007, F001, F002
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	17	5,960	D039, F002
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	3	912	D039, D040, F002
TENSION SUPPORT STRUCTURE #5 Total:			**1,300,000**	
GRAND TOTAL:			**5,450,000**	

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: BOILER PLANT			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	2	59,400
BOILER PLANT Total:			**59,400**
LOCATION: CHEMICAL WAREHOUSE			
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	1	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	12	26,200
CHEMICAL WAREHOUSE Total:			**26,200**
LOCATION: CP STORAGE WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	2	1,100
CONTAMINATED ASBESTOS MATERIALS	028	2	187
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	6
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	2	1,650
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	2	448
CP STORAGE WAREHOUSE Total:			**3,390**
LOCATION: D&D BUILDING			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	0
D&D BUILDING Total:			
LOCATION: DECONTAMINATION BUILDING			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	22	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	48	1,090
DECONTAMINATION BUILDING Total:			**1,090**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: FINISHED PRODUCTS			
CONTAMINATED CARBON FILTER ELEMENTS	026	2	142
DUST COLLECTOR BAGS	029	17	502
OFF-SPEC UF4 OR THF4	082	1	18
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	1	129
UO2 OR THO2 PRODUCT	202	1	310
FINISHED PRODUCTS Total:			**1,100**
LOCATION: GENERAL IN-PROCESS WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	4	648
CONTAMINATED ASBESTOS MATERIALS	028	3	0
CONTAMINATED OIL, INSOLUBLE	015	2	1,330
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	521
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	1	0
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	3	1,780
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	391	121,000
GENERAL IN-PROCESS WAREHOUSE Total:			**125,000**
LOCATION: HEAVY EQUIPMENT BUILDING			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
HEAVY EQUIPMENT BUILDING Total:			

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: KC-2 WAREHOUSE			
CONTAMINATED OIL - SOLUBLE; COOLANT	009	1	272
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	8	6
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	15	2,800
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	2	164
CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	022	9	2,620
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	332
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	1	430
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	1	724
KC-2 WAREHOUSE Total:			**7,350**
LOCATION: MAIN TANK FARM			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
MAIN TANK FARM Total:			
LOCATION: OLD PLANT 5 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	55	0
CONTAMINATED STEEL AFTER WASHING AND/OR CLEANING	004	5	0
CONTAMINATED ASBESTOS MATERIALS	028	23	17,400
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	0
OLD PLANT 5 WAREHOUSE Total:			**17,400**

Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PILOT PLANT AREA			
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	11	4,190
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	282
OFF-SPEC UF4 OR THF4	082	314	76,100
PILOT PLANT AREA Total:			**80,600**
LOCATION: PILOT PLANT THORIUM TANK FARM			
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	0
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	2	0
PILOT PLANT THORIUM TANK FARM Total:			
LOCATION: PILOT PLANT WAREHOUSE			
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	1	70
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	40	13,300
PCB MATERIALS, BALLAST, PCB-CONTAMINATED RAGS	050	9	2,010
PILOT PLANT WAREHOUSE Total:			**15,400**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PLANT 1 AREA			
BIRD CARCASSES, DROPPINGS, AND CONTAMINATED MATERIALS	093	3	182
CHIPPED FLOOR SEALANT AND CONTAMINATED MATERIALS	099	3	996
CLEAN OR DECONTAMINATED EQUIPMENT	600	19	0
CLEAN SOIL - TREATED	601	190	104,000
COLD METAL OXIDES - NON RADIUM-BEARING	095	1	118
CONTAMINATED COPPER - FOR DISCARD	016	4	1,020
CONTAMINATED GRAPHITE - UNCRUSHED BUT BROKEN INTO LARGE PIECES	017	29	9,430
CONTAMINATED LEATHER GLOVES FOR LAUNDRY	006	3	582
CONTAMINATED OIL - SOLUBLE; COOLANT	009	8	1,650
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	3509	1,990,000
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	48	11,100
CONTAMINATED STEEL AFTER WASHING AND/OR CLEANING	004	4	1,260
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	801	140,000
CONTAMINATED WATER, CONTAINING CHLORIDES	010	16	6,540
CONTAMINATED ZIRCONIUM	005	4	606
CONTAMINATED ASBESTOS MATERIALS	028	166	287,000
CONTAMINATED CAF2 - MGO	058	1	74
CONTAMINATED GRAPHITE - CRUSHED	024	52	21,300
CONTAMINATED METALLIC FILTER ELEMENTS	025	6	839
CONTAMINATED OIL, INSOLUBLE	015	94	34,100
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	19	2,210
CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES	022	36	21,600
DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS	056	2	1,950
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	528	257,000
DUST COLLECTOR BAGS	029	9	725
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	20	3,900

Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
DUST COLLECTOR RESIDUES, PYROPHORIC, HIGH FLUORIDE	064	1	138
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	188	121,000
GLASS AND SAMPLE BOTTLES	014	7	1,440
GLASS FROM VITRIFICATION	603	25	9,880
GRIT BLAST RESIDUE	008	8	4,200
HIGH LEVEL CLEANING RESIDUES	054	9	1,300
INCINERATOR CINDERS - MATERIAL NOT PASSING THROUGH GRATE OR SCREEN	033	3	1,110
LEAD AND LEAD-CONTAMINATED MATERIALS	049	1	158
MAGNESIUM DIURANATE	091	1039	554,000
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	1	32
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	2	244
NON-BURNABLE METAL WITH URANIUM CONTENT	053	3	196
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1455	413,000
OFF-SPEC UF4 OR THF4	082	3	282
ORE CONCENTRATE - MISCELLANEOUS	170	1	152
RADIUM-BEARING MATERIALS - SAMPLES, K-65, INCLUDING Q-11 CONTAMINATED MATERIALS	097	1	0
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	110	26,100
SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS	065	4	648
SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS	066	1	318
SCRAP U3O8 OR THO2, HIGH FLUORIDE	101	2	63
SCRAP UO2	102	5	548
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	6	3,140
SLUDGES, FOR BLENDING AND SCREENING	040	3	1,860
SLUDGES, OILY	039	4	784
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	310	130,000
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	9	5,550
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	2	0

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
THO2 PRODUCED FROM UNPURIFIED HANFORD THORIUM NITRATE VIA THORIA GEL PROCESS	105	1	397
TRAILER CAKES, WASTE SLURRIES, RAFFINATES NOT MEETING DISCARD SPECIFICATION	007	32	8,600
U3O8 FOR REOXIDATION	134	30	12,000
UNFIRED REDUCTION CHARGES PLUS MGF2 FROM LINER CAVE-INS	079	21	23,300
UO2 (OR THO2) POWDER - REFINERY FEED	167	1	0.52
WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED	067	2	469
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	4	1,660
WET SUMP OR FILTER CAKE, OIL CONTAMINATED	068	655	152,000
PLANT 1 AREA Total:			**4,370,000**
LOCATION: PLANT 2/3 AREA			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	7	0
SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM	002	366	166,000
PLANT 2/3 AREA Total:			**166,000**
LOCATION: PLANT 4 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	13,300
CONTAMINATED ASBESTOS MATERIALS	028	1	0
PLANT 4 AREA Total:			**13,300**
LOCATION: PLANT 4 WAREHOUSE			
MATERIAL HELD FOR HISTORICAL PURPOSES	098	1	10
PLANT 4 WAREHOUSE Total:			**10**

Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PLANT 5 AREA			
CO-PACKAGED URANIUM RESIDUES	094	7	19,200
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	10	4,460
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	18	1,170
DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS)	055	14	13,300
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	19	4,360
U3O8, +8 MESH - LOW FLUORIDE	122	1	444
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	36	9,870
PLANT 5 AREA Total:			**52,800**
LOCATION: PLANT 6 AREA			
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	1	175
CONTAMINATED ASBESTOS MATERIALS	028	1	140
MATERIAL HELD FOR HISTORICAL PURPOSES	098	1	3
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	4	0
OFF-SPEC UF4 OR THF4	082	2	500
REJECT ELEMENTS - OUTER	323	1	946
SAMPLES, NON-METALLIC, MISCELLANEOUS	047	1	3
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	1	348
SPECIAL SOLID INGOTS OR SLABS	401	4	5,040
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	29	10,000
PLANT 6 AREA Total:			**17,200**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PLANT 6 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	36	21,900
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	4	1,390
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	47	20,100
CONTAMINATED WATER, CONTAINING CHLORIDES	010	3	1,230
CONTAMINATED ASBESTOS MATERIALS	028	2	73
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	4	391
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	1	12
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	40	5,230
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	2	1,070
SLUDGES, OILY	039	3	157,000
SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL	041	36	8,000
PLANT 6 WAREHOUSE Total:			**216,000**
LOCATION: PLANT 7 AREA			
CONTAMINATED OIL, INSOLUBLE	015	1	347
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
PLANT 7 AREA Total:			**347**

Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PLANT 8 AREA			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	14	6,500
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	113	62,500
DUST COLLECTOR RESIDUES - HIGH FLUORIDE	062	1	218
DUST COLLECTOR RESIDUES, LOW FLUORIDE	132	3	572
FILTERED SEWAGE	092	219	72,900
MAGNESIUM DIURANATE	091	634	342,000
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	1	0
SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING	042	1	448
WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE	069	1094	414,000
PLANT 8 AREA Total:			**899,000**
LOCATION: PLANT 8 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	170
CONTAMINATED ASBESTOS MATERIALS	028	1	47
CONTAMINATED RAGS, PAPER, AND POLYETHYLENE	027	26	3,840
FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)	060	3	832
MERCURY-CONTAMINATED MATERIALS, MERCURY BATTERIES	051	1	84
MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR USE BY INDIVIDUAL PLANTS)	137	14	6,320
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	40	5,540
PLANT 8 WAREHOUSE Total:			**16,800**
LOCATION: PLANT 9 AREA			
DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.	001	1	67,600
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	2	0
PLANT 9 AREA Total:			**67,600**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: PLANT 9 WAREHOUSE			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	28	0
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	6	0
PLANT 9 WAREHOUSE Total:			
LOCATION: QUONSET HUT #3			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	52	24,900
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	21	6,320
RADIUM-BEARING MATERIALS - SAMPLES, K-65, INCLUDING Q-11 CONTAMINATED MATERIALS	097	8	0
QUONSET HUT #3 Total:			**31,200**
LOCATION: RECEIVING/INCOMING MATERIALS INSPECTION			
CLEAN OR DECONTAMINATED EQUIPMENT	600	2	0
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	1	931
RECEIVING/INCOMING MATERIALS INSPECTION Total:			**931**
LOCATION: SERVICE BUILDING			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	2	0
SERVICE BUILDING Total:			
LOCATION: SIX TO FOUR REDUCTION FACILITY #1			
OFF-SPEC UF4 OR THF4	082	1	11
SCRAP UO2	102	1	8
SIX TO FOUR REDUCTION FACILITY #1 Total:			**19**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: TENSION SUPPORT STRUCTURE #5			
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	9	4,750
CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT A	013	1	11
CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE	012	27	10,700
SLUDGES, OILY	039	7	4,790
SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE SOLVENT AND ORGANIC CHEMICAL TABLE)	043	1	607
***TENSION SUPPORT STRUCTURE #5* Total:**			**20,900**
LOCATION: THORIUM WAREHOUSE			
CLEAN OR DECONTAMINATED EQUIPMENT	600	5	0
CONTAMINATED ALUMINA - SODA LIME (HIGH Cl)	018	1	693
CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS	011	23	2,690
CONTAMINATED GRAPHITE - CRUSHED	024	4	1,500
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	18	0
THORIUM WAREHOUSE Total:			**4,880**
LOCATION: UNKNOWN (0012)			
CALCIUM URANATE	123	2	50
UNKNOWN (0012) Total:			**50**
LOCATION: UNKNOWN (0015)			
NON-RECOVERABLE TRASH - FOR STORAGE OR SHIPMENT FOR OFF-SITE BURIAL (SEE TABLE FOR CATEGORY O	003	3	13,200
UNKNOWN (0015) Total:			**13,200**

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Summary of Inventory Materials
Other Uncharacterized

Material Description	Material Code	Number of Containers	Net Weight (lbs.)
LOCATION: UNKNOWN (0032)			
CLEAN OR DECONTAMINATED EQUIPMENT	600	1	0
UNKNOWN (0032) Total:			
GRAND TOTAL:			6,230,000

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