7487 G-000-104.209

COMPLIANCE WITH PERMIT RELATED SUBSTANTIVE REGULATORY REQUIREMENTS - ADVANCED WASTEWATER TREATMENT - SLURRY DEWATERING FACILITY

01/26/96

DOE-0406-96
DOE-FN EPAS
8
REPORT

7487

Department of Energy
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

JAN 26 1996

DOE-0406-96

Mr. James A. Saric, Remedial Project Director
U. S. Environmental Protection Agency
Region 5-5HRE-8J
77 W. Jackson Boulevard
Chicago, Illinois 60604-3590

Mr. Thomas A. Schneider, Project Manager
Ohio Environmental Protection Agency
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

COMPLIANCE WITH PERMIT RELATED SUBSTANTIVE REGULATORY REQUIREMENTS - ADVANCED WASTEWATER TREATMENT - SLURRY DEWATERING FACILITY

Enclosed is a Permit Information Summary for the Advanced Wastewater Treatment Slurry Dewatering Facility. This facility is being constructed to provide a modern dedicated facility for dewatering slurries and sludges generated from the AWWT process and other site activities. Once completed, this facility will replace the Plant 8 Vacuum Filtration operations. Plant 8 is targeted for safe shutdown in the first quarter of 1997.

Section XIII of the Amended Consent Agreement requires the Department of Energy (DOE) to identify those permits that would otherwise be required, along with the standards, requirements, criteria, or limitations that would have to have been met to obtain each permit. The enclosed Permit Information Summary satisfies this requirement.

If you have any questions concerning the attached summary, please contact Mr. Ed Skintik at (513) 648-3151.

Sincerely,

Jack R. Craig
Director

FN:Skintik

Enclosure: As Stated

Recycled and Recyclable

cc w/enc:

R. J. Janke, DOE-FN
Administrative Record, FERMCO

cc w/o enc:

B. Cullison, EH-Site Rep.
J. R. Butterfield, FERMCO
S. M. Beckman, FERMCO
D. J. Carr, FERMCO
J. R. Hughes, FERMCO
T. J. Walsh, FERMCO

FLOWS AND LINES

- NEW MAIN FLOW
- EXISTING MAIN FLOW
- FUTURE MAIN FLOW
- NEW SECONDARY FLOW
- EXISTING SECONDARY FLOW
- FUTURE SECONDARY FLOW
- ELECTRICAL

( ) AVERAGE FLOW

[ ] PEAK FLOW

ABBREVIATIONS

A TO C	-	AIR TO CLOSE
A TO O	-	AIR TO OPEN
AVG	-	AVERAGE
B/EL	-	BOTTOM ELEVATION
BLDG	-	BUILDING
℄	-	CENTER LINE
CONC	-	CONCRETE
CV	-	CONTROL VALVE COEFFICIENT
CFM	-	CUBIC FEET PER MINUTE
DIA	-	DIAMETER
DWG	-	DRAWING
ECC	-	ECCENTRIC
EL	-	ELEVATION
GAL	-	GALLONS
GPD	-	GALLONS PER DAY
GPH	-	GALLONS PER HOUR
GPM	-	GALLONS PER MINUTE
HB	-	HOSE BIB
HG	-	INCHES OF MERCURY
HI	-	HIGH
HP	-	HORSEPOWER
HT & I	-	HEAT TRACE & INSULATE
ID	-	INSIDE DIAMETER
INV	-	INVERT
LO	-	LOW
MH	-	MANHOLE
MW	-	MANWAY
N.C.	-	NORMALLY CLOSED
N.O.	-	NORMALLY OPEN
O.D.	-	OUTSIDE DIAMETER
PSIG	-	POUNDS PER SQUARE INCH - GAUGE
RAD	-	RADIUS
RED	-	REDUCER
SCFM	-	STANDARD CUBIC FEET PER MINUTE
SCH	-	SCHEDULE
SD	-	SIDE DEPTH
SP.GR. OR SG	-	SPECIFIC GRAVITY
SS	-	STRAIGHT SIDE OR STAINLESS STEEL
ST & I	-	STEAM TRACE & INSULATE
STD	-	STANDARD
SWD	-	SIDE WATER DEPTH
TDH	-	TOTAL DYNAMIC HEAD(FT OF FLUID)
T/EL	-	TOP ELEVATION
VAC	-	VACUUM
VS	-	VARIABLE SPEED
VSD	-	VARIABLE SPEED DRIVE
WC	-	WATER COLUMN
WD	-	WATER DEPTH
WL	-	WATER LEVEL
WV	-	WORKING VOLUME (DOES NOT INCLUDE FREEBOARD OR HEEL)

VALVES (VARIATIONS WILL BE SHOWN)

- BALL
- BUTTERFLY-PROVIDE SPACERS ON BOTH SIDES WHEN INSTALLED IN LINED PIPE
- CHECK
- CONTROL
- DIAPHRAGM
- GATE OR GLOBE (INDICATE IF GLOBE)
- KNIFE
- PINCH
- PLUG
- PRESSURE REDUCING OR REGULATING
- SELECTOR-PNEUMATIC LINES
- 2,3,&4 WAY SOLENOID
- SQUEEZE

PIPING COMPONENTS AND ACCESSORIES

- THRU WALL OR FLOOR
- DRESSER COUPLING
- EJECTOR OR EDUCTOR
- EXPANSION JOINT OR FLEXIBLE CONNECTOR
- FLANGED CONNECTION
- FLUSH CONN. WITH QUICK DISCONNECT COUPLING. CONN. TO PIPE AND VALVE TO BE COMPATIBLE WITH PIPE LINE MAT'L TO BE ¾" UNLESS NOTED
- INSULATED PIPE
- INSULATED PIPE WITH ELECTRIC HEAT TRACING
- INSULATED PIPE WITH STEAM HEAT TRACING
- PIPE TO TUBING ADAPTER
- PIPE TO TUBING ADAPTER WITH QUICK DISCONNECT
- STL — CISP: PIPING MATERIAL CHANGE
- QUICK DISCONNECT COUPLING
- REDUCER
- SIGHT FLOW INDICATOR
- SIGHT GLASS
- SURGE SUPPRESSOR
- STRAINER
- UNION

INSTRUMENTATION AND RELATED ITEMS

FLOW DIAGRAM INSTRUMENTATION IS SHOWN FUNCTIONALLY. INSTRUMENT DRAWINGS SHOULD BE CONSULTED FOR COMPLETE INFORMATION.

- CAPILLARY TUBING
- IA — INSTRUMENT AIR SUPPLY
- PNEUMATIC LINE
- PURGE UNIT
- FE 2 — ORIFICE PLATE
- PARSHALL FLUME, VENTURI, INSERT TUBE ETC.
- ROTAMETER
- MAGNETIC METER OR TURBINE METER
- ELECTRODE (pH OR CONDUCTIVITY)
- ELECTRICAL LEVEL PROBES
- LOCAL INSTRUMENT
- INSTRUMENT BEHIND PANEL
- PLC OR DCS INSTRUMENT (SPECIFIED)
- JR — PLC OR DCS TREND: (JUNIPER-DATA INTERNAL RECORDER)
- PANEL MOUNTED INSTRUMENT
- INSTRUMENT WITH TWO FUNCTIONS
- PI — PRESSURE GAUGE
- SPRING LOADED RELIEF VALVE
- WEIR
- TI — TEMPERATURE INDICATOR

ELECTRICAL AND RELATED ITEMS

- ELECTRICAL LINES
- PB — PUSH BUTTON
- S — SELECTOR SWITCHES
- EM — UNIT ON EMERGENCY POWER

MOTORS ARE 3/60/230/460 UNLESS NOTED OTHERWISE

PIPING AND TUBING MATERIALS

ABS	-	ACRYLONTRILE BUTADIENE STYRENE TRUSS PIPE
ALM	-	ALUMINUM PIPE OR TUBING
ARP	-	ALUMINUM REINFORCED PLASTIC PIPE
BPT	-	BRAIDED PLASTIC TUBING-PVC
CI	-	CAST IRON PIPE
CISP	-	CAST IRON SOIL PIPE
CMCP	-	CORRUGATED METAL CULVERT PIPE
CMH	-	CHEMICAL HOSE
CMP	-	CORRUGATED METAL PIPE
COP	-	COPPER PIPE
CPVC	-	CHLORINATED POLYVINYL CHLORINE PIPE
DI	-	DUCTILE CAST IRON PIPE
ERP	-	EPOXY RESIN PIPE
FRP	-	FIBERGLASS REINFORCED PLASTIC PIPE
GALV	-	GALVANIZED STEEL PIPE
HSI	-	HIGH SILICON IRON PIPE
KLS	-	PVDF LINED STEEL PIPE (KYNAR® LINED TYPICAL)
KYN	-	PVDF (KYNAR® TYPICAL)
NEO	-	NEOPRENE HOSE
NLS	-	NEOPRENE LINED STEEL PIPE
PEP	-	POLYETHYLENE PIPE
PLS	-	POLYPROPYLENE LINED STEEL PIPE
POP	-	POLYPROPYLENE PIPE
PVC	-	POLYVINYL CHLORIDE PIPE
PRP	-	PHENOLIC RESIN PIPE
RBR	-	RUBBER HOSE
RCCP	-	REINFORCED CONCRETE CULVERT PIPE
RCP	-	REINFORCED CONCRETE PIPE
SAR	-	SARAN TUBING
SLH	-	SLUDGE HOSE
SLS	-	SARAN LINED STEEL PIPE
SST	-	STAINLESS STEEL PIPE OR TUBING
STL	-	STEEL PIPE
TEF	-	TEFLON TUBING
TLS	-	TEFLON LINED STEEL PIPE
TYB	-	TYGON® TUBING-BRAIDED
TYG	-	TYGON® TUBING-UNBRAIDED

SERVICES

(PROJECT MAY INCLUDE ITEMS NOT SHOWN)

CW	-	CITY WATER (POTABLE)
IA	-	INSTRUMENT AIR
PA	-	PLANT AIR
PW	-	PLANT WATER
RW	-	RAW WATER
SW	-	SEAL WATER

PIPING ROUTING

EXAMPLE

3"STL(P)	3" STL PIPE (PRESSURE)
602/717	FROM PUMP 602 TO TANK 717
D=DRAIN	
G=GRAVITY	
O=OVERFLOW	
P=PRESSURE	
S=SUCTION	
V=VENT	

EQUIPMENT NUMBERS

100	AGITATORS, AERATORS
200	AIR HANDLING-BLOWERS, COMPRESSORS, DRYERS
300	CLARIFIERS, THICKENERS, SEPARATORS
400	FILTERS-VACUUM, PRESSURE, CENTRIFUGES
500	GAS HANDLING-CHLORINATORS, SULFONATORS, SCALES
600	PUMPS
700	TANKS
800	ALL OTHER MECHANICAL EQUIPMENT
900	OPEN

NOTE:
REDUCERS ARE NOT NECESSARILY SHOWN ON DRAWINGS SINCE SELECTION OF EQUIPMENT IS NOT FINALIZED. BRANCH PIPING CONNECTIONS ALSO MAY NOT HAVE REDUCERS SHOWN.

STANDARD LEGENDS FOR INSTRUMENTATION DRAWINGS
INSTRUMENT IDENTIFICATION

	FIRST LETTER PROCESS VARIABLE	SECOND LETTER MODIFIER	SUCCEEDING LETTERS
A	ANALYSIS	ALARM	ALARM
B	BURNER	BATCH	
C	CONTROL	CONTROL	
D	DENSITY	DIFFERENTIAL	DRIVE
E	VOLTAGE (EMF)		ELEMENT
F	FLOW	RATIO (FRACTION)	
G	GAGING (DIM)		GAUGE, GLASS
H	HAND		HIGH
I	CURRENT (ELECTRICAL)	INDICATE	INDICATE
J	POWER	SCAN	
K	TIME		
L	LEVEL		LOW, LIGHT
O	OPERATING		ORIFICE
P	PRESSURE		POINT
Q	QUANTITY (EVENT)	TOTALIZE	
R		RECORD-PRINT	
S	SPEED/FREQUENCY	SAFETY-SWITCH	SWITCH
T	TEMPERATURE		TRANSMIT
U	MULTIVARIABLE		MULTIFUNCTION
V	VIBRATION	VISCOSITY	VALVE
W	WEIGHT (FORCE)		WELL
X	UNCLASSIFIED	VIDEO	
Y	TORQUE		RELAY, COMPUTE
Z	POSITION		ACTUATE UNCLASSIFIED FINAL ELEMENT

LEGEND BASED ON ISA STANDARD S 5.1

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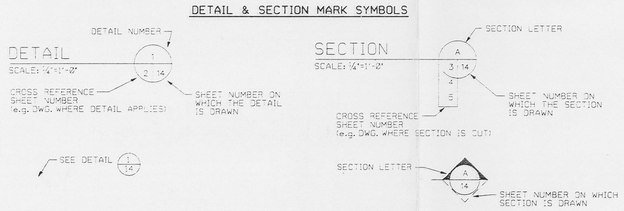
DETAIL & SECTION MARK SYMBOLS



REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER	STAVER	FERMCO
		INITIALS AND DATE		
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SLM 10/5/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
PIPING AND INSTRUMENTATION DIAGRAM LEGEND

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
RVV	9/95	DRS	9/95	DRS	9/95
PLANT/BLDG NO.		FLOOR		SCALE	CLASS
				NONE	

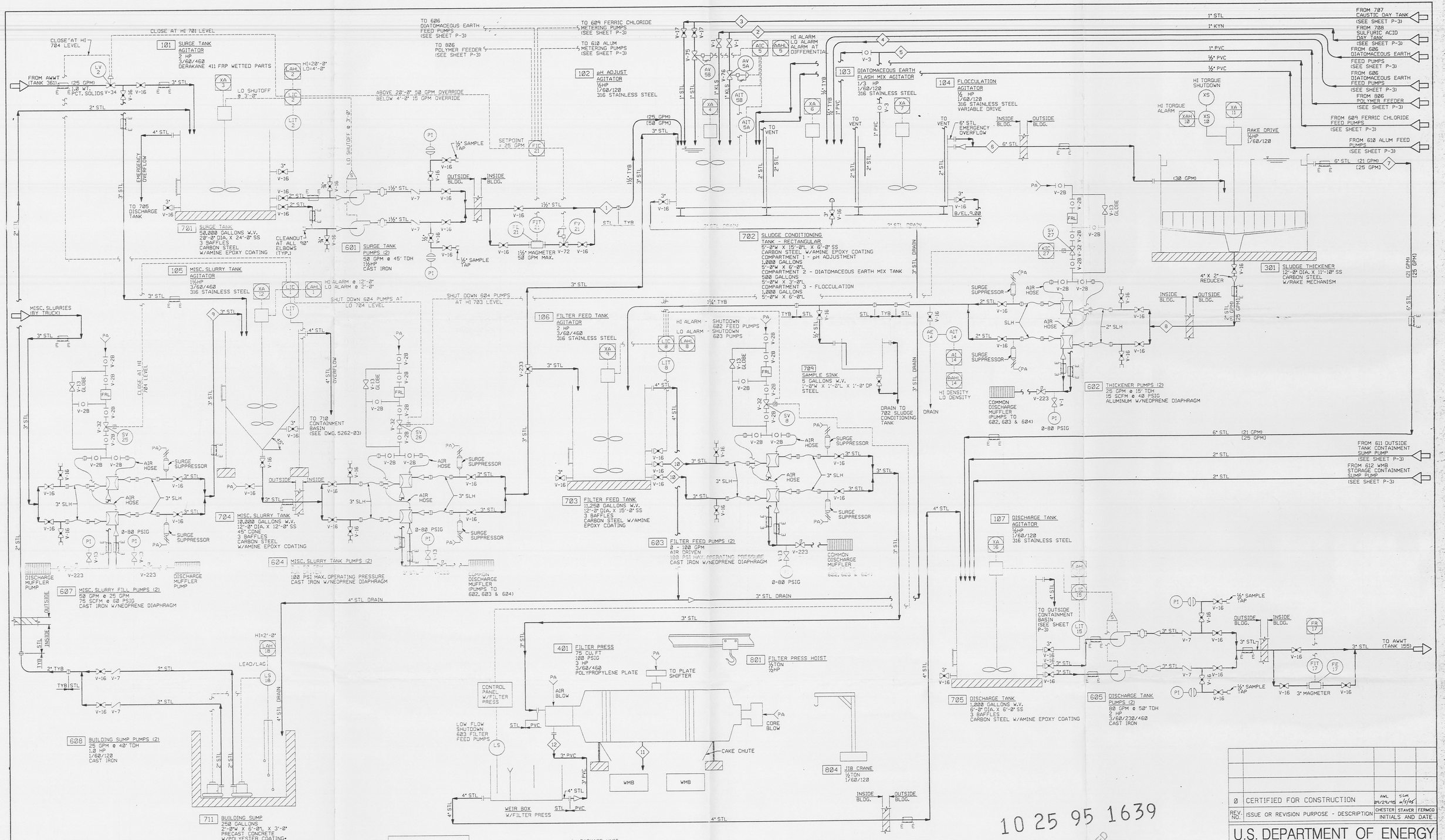
3

CHESTER ENVIRONMENTAL

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL
AWL	09/29/95	SLM	10/5/95	
CHESTER	DATE	STAVER	DATE	DATE

DWG. NO. 526201\ 5262-01 .FLW
DATE 02 OCT 1995/15:40
CPU REF.

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-1	0



LINE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
										BASIS: 8 HRS/DAY		
SERVICE / PARAMETER	INFLUENT SLURRY FROM SURGE TANK	SULFURIC ACID TO pH ADJUST TANK	SODIUM HYDROXIDE TO pH ADJUST TANK	DIATOMACEOUS EARTH ADDED TO MIX TANK	POLYMER TO FLOCCULATION TANK	FLOCCULATION TANK EFFLUENT	THICKENER EFFLUENT	THICKENER UNDERFLOW	MISCELLANEOUS SLURRIES	FILTER FEED INFLUENT (AVERAGE)	FILTER CAKE (AVERAGE)	FILTER PRESS FILTRATE (AVERAGE)
FLOW RATE (GPM)	25	TBD	TBD	2	3	30	21	9	INTERMITTENT	45	5	40
FLOW RATE (LB/D)	301.741	TBD	TBD	15.000	36.029	352.770	244.284	108.486	INTERMITTENT	176.605	15.188	101.417
SOLIDS (LB/D)	3.017	-	-	750	30	3.797	NEG.	3.797	INTERMITTENT	3.797	3.797	NEG.
PERCENT SOLIDS (WT%)	1.0	-	-	5.0	NEG.	1.08	NEG.	3.5	6.0 MAX.	2.15	25.0	NEG.
SPECIFIC GRAVITY	1.005	1.83 (93%)	1.11 (10%)	1.05	1.0 (1/4%)	1.01	1.0	1.02	1.04	1.01	1.18	1.0

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REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER INITIALS AND DATE	STAVER INITIALS AND DATE	FERMCO INITIALS AND DATE
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SLM 10/5/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
PIPING AND INSTRUMENTATION DIAGRAM

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
RVV	9/95	DRS	9/95	DRS	9/95

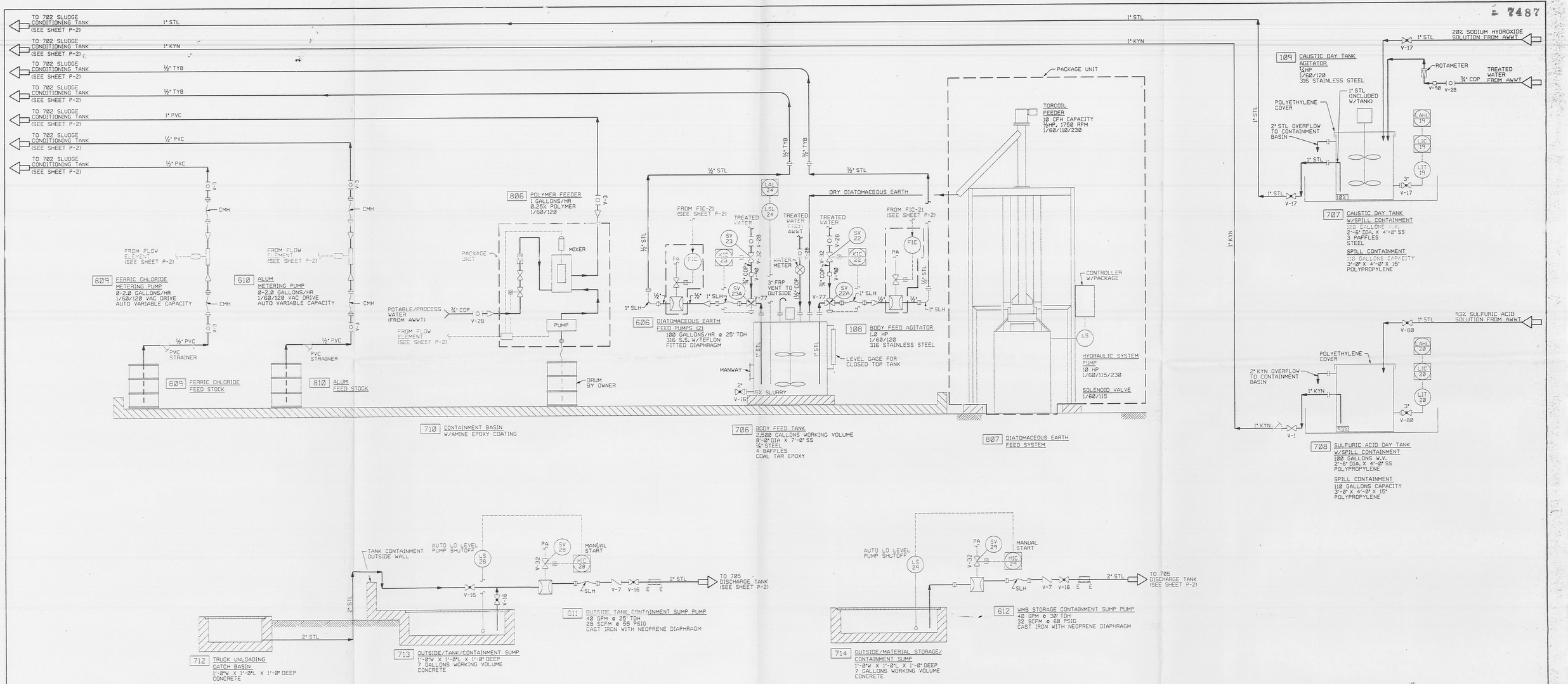
PLANT/BLDG NO.	FLOOR	SCALE	CLASS
		NONE	

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL	
AWL CHESTER	09/29/95 DATE	SLM STAVER	10/5/95 DATE		DATE

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-2	0

CHESTER ENVIRONMENTAL
DWG. NO. 526201\ 5262-02 .FLW
DATE 02 OCT 1995/14:30
CPU REF.

4



EQUIPMENT LIST

100 - AGITATORS

101 - SURGE TANK AGITATOR
102 - pH ADJUST AGITATOR
103 - DIATOMACEOUS EARTH FLASH MIX AGITATOR
104 - FLOCCULATION TANK AGITATOR
105 - MISCELLANEOUS SLURRY TANK AGITATOR
106 - FILTER FEED TANK AGITATOR
107 - DISCHARGE TANK AGITATOR
108 - BODY FEED AGITATOR
109 - CAUSTIC DAY TANK AGITATOR

300 - THICKENERS

301 - SLUDGE THICKENER

400 - FILTERS

401 - FILTER PRESS

600 - PUMPS

601 - SURGE TANK PUMPS
602 - THICKENER PUMPS
603 - FILTER FEED PUMPS
604 - MISC. SLURRY TANK PUMPS
605 - DISCHARGE TANK PUMPS
606 - DIATOMACEOUS EARTH FEED PUMPS
607 - MISCELLANEOUS SLURRY FILL PUMPS
608 - BUILDING SUMP PUMPS
609 - FERRIC CHLORIDE METERING PUMPS
610 - ALUM METERING PUMPS
611 - OUTSIDE TANK CONTAINMENT SUMP PUMP
612 - WMB STORAGE CONTAINMENT SUMP PUMP

700 - TANKS

701 - SURGE TANK
702 - SLUDGE CONDITIONING TANK
703 - FILTER FEED TANK
704 - MISCELLANEOUS SLURRY TANK
705 - DISCHARGE TANK
706 - BODY FEED TANK
707 - CAUSTIC DAY TANK
708 - SULFURIC ACID DAY TANK
709 - SAMPLE SINK
710 - CONTAINMENT BASIN
711 - BUILDING SUMP
712 - TRUCK UNLOADING CATCH BASIN
713 - OUTSIDE TANK CONTAINMENT SUMP
714 - OUTSIDE/MATERIAL STORAGE/CONTAINMENT SUMP

800 - MISCELLANEOUS

801 - FILTER PRESS HOIST
802 - TILTABLE CAKE HOPPER
803 - DRUM LOADING HOPPER
804 - JIB CRANE
805 - WEIGH SCALE
806 - POLYMER FEEDER
807 - DIATOMACEOUS EARTH FEED SYSTEM
808 - DRUM ROLLER
809 - FERRIC CHLORIDE FEED STOCK
810 - ALUM FEED STOCK

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REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER	STAVER	FERMCO
		INITIALS AND DATE		
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SLM 10/5/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
PIPING AND INSTRUMENTATION DIAGRAM

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
RVV	9/95	DRS	9/95	DRS	9/95

PLANT/BLDG NO.	FLOOR	SCALE	CLASS
		NONE	

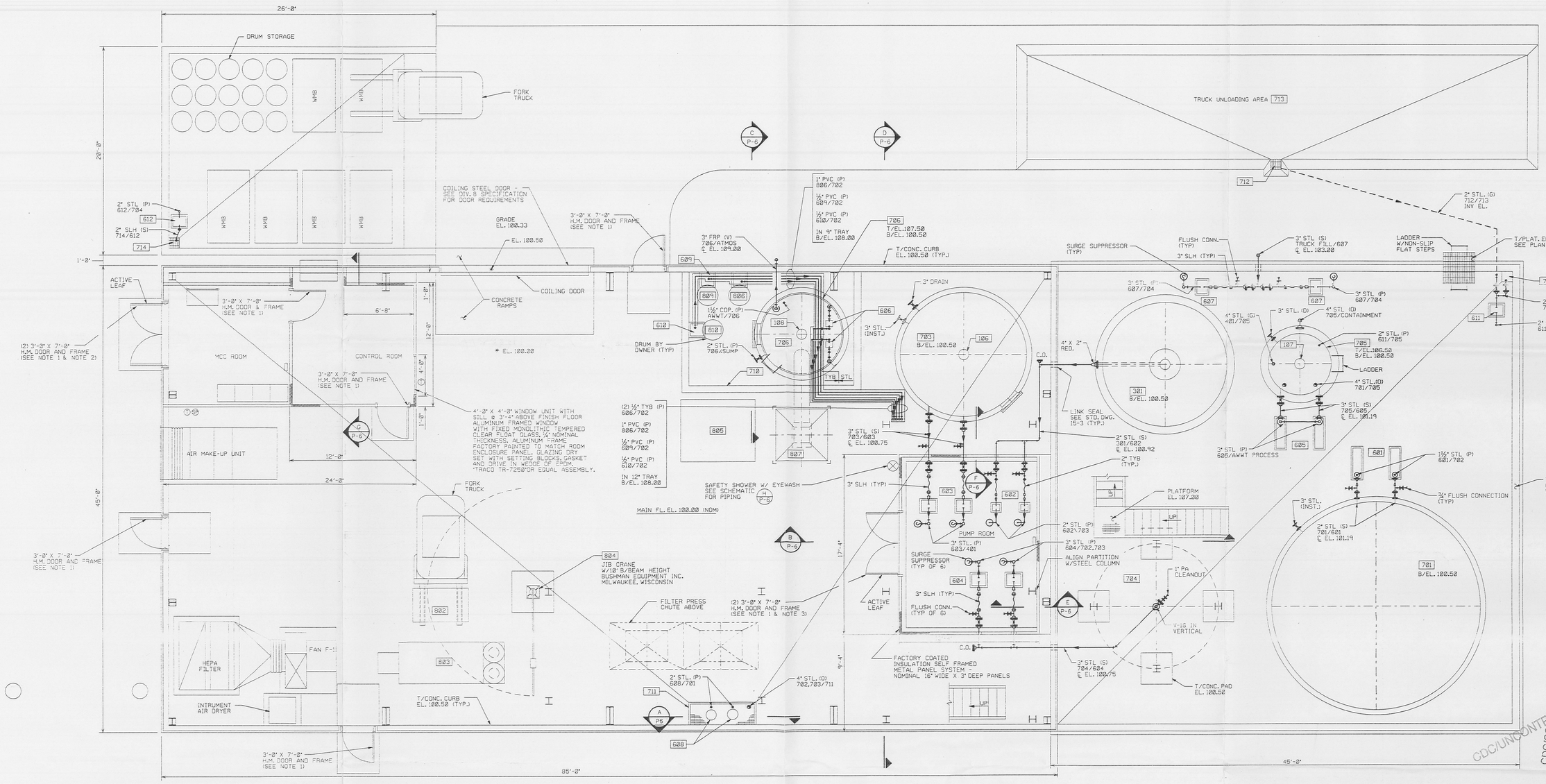
5

CHESTER ENVIRONMENTAL

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL	
AWL CHESTER	09/29/95 DATE	SLM STAVER	10/5/95 DATE		DATE

DWG. NO. 526201\ 5262-03 .FLW
DATE 02 OCT 1995/14:45
CPU REF.

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-3	0



PRE-ENGINEERED BUILDING

STEEL FRAME, EXTERIOR CLADDING AND SUPPORTS, FRAMED OPENING AND CLADDING PENETRATIONS AS REQUIRED BY DIVISION 13 SPECIFICATION. INCORPORATED BY REFERENCE ARE DRAWINGS 1 THRU 4 (OF 4) PREPARED BY B.D. MORGAN AND CO., INC. DATED JULY 21, 1995.
STAR BUILDING DRAWINGS
*E1, E2, E3, E4/L. 10.12.04, 17.15.03, 17.18.02, 19.03.01, 21.01.06, 37.01.06, 37.22.02, 37.09.05, 37.10.05, 37.16.06, 54.11.02, 54.13.03, 57.09.01, 57.10.01, 70.04.08, AND
STAR BUILDING DRAWINGS
*1-4 7-21-95, 7-28-95 REV.
STAR ENGINEERING/PRODUCT DATA BOOKLET DATED AUG. 31, 1995

MAIN FLOOR PLAN (A / P-4)
SCALE: ¼"=1'-0"

10 25 95 1639

NOTES:

1. SEE DIVISION 8 SPECIFICATIONS FOR DOOR AND HARDWARE REQUIREMENTS.
2. SEE DIVISION 8 SPECIFICATION FOR DOOR, FRAME AND HARDWARE REQUIREMENTS EXCEPT PROVIDE FINISH HARDWARE AS FOLLOWS:
   - 3 PR BUTT HINGES
   - 1 EXIT DEVICE - MORTISE LOCK TYPE
   - 1 CLOSER - ACTIVE LEAF
   - 1 SET FLUSH BOLTS
   - 1 DUST PROOF STRIKE
   - 1 SURFACE ASTRAGAL (ACTIVE LEAF)
   - 2 OVERHEAD STOPS - CONCEALED
   - 1 SET WEATHERSTRIPPING
3. SEE DIVISION 8 SPECIFICATION FOR DOOR, FRAME AND HARDWARE REQUIREMENTS EXCEPT PROVIDE FINISH HARDWARE AS FOLLOWS:
   - 3 PR BUTT HINGES
   - 2 CLOSERS
   - 1 MORTISE LATCH SET
   - 1 SET FLUSH BOLTS
   - 1 DUSTPROOF STRIKE
   - 2 PROTECTION PLATES
   - 2 OVERHEAD STOPS

LEGEND

⊗ = SAFTEY SHOWER/EYEWASH STATION

0' 2' 4' 8' 12'
GRAPHIC SCALE

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER INITIALS AND DATE	STAVER INITIALS AND DATE	FERMCO INITIALS AND DATE
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SLM 10/5/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
GENERAL ARRANGEMENT
MAIN FLOOR PIPING PLAN

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
EGL	8-95	DRS	8-95	TL	8-95

PLANT/BLDG NO.	FLOOR	SCALE	CLASS
		¼"=1'-0"	

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL
AWL CHESTER	09/29/95 DATE	SLM STAVER	10/5/95 DATE	DATE

CHESTER ENVIRONMENTAL
DWG. NO. 526201\ 5262-05 .PRC
DATE 29 SEPT. 1995/10:00
CPU REF.

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-4	0

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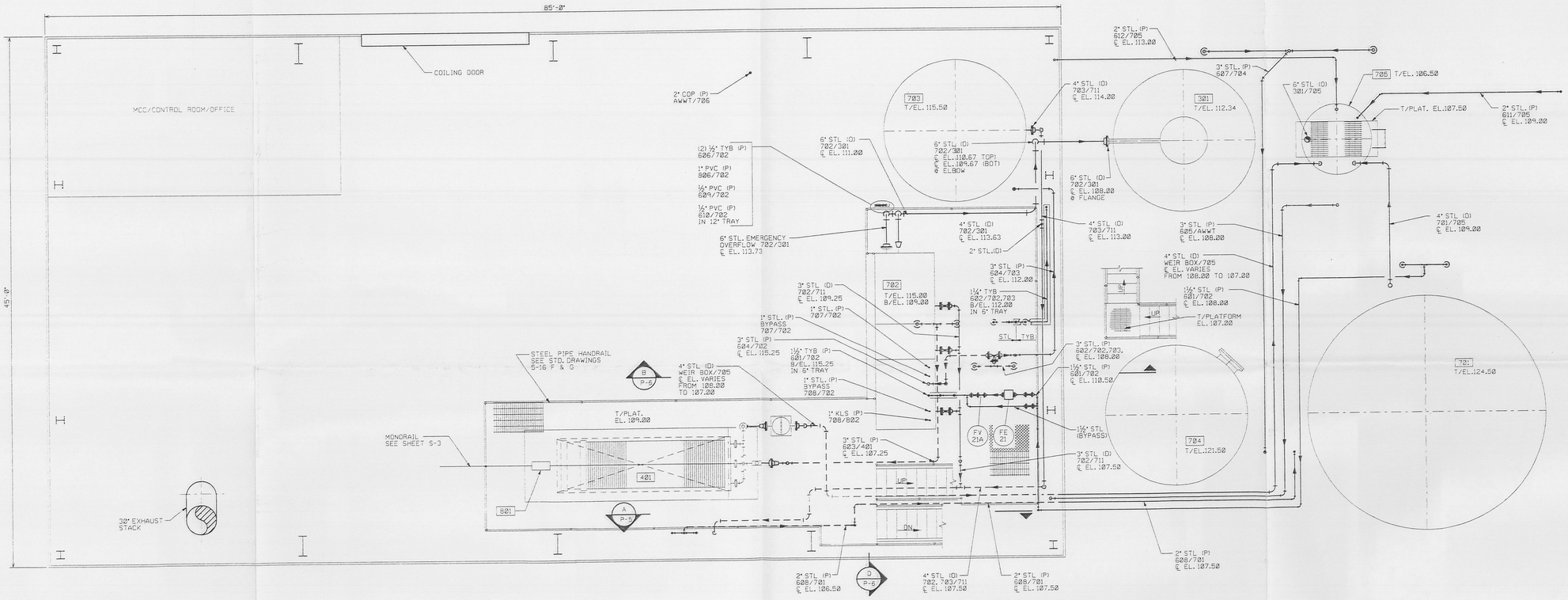
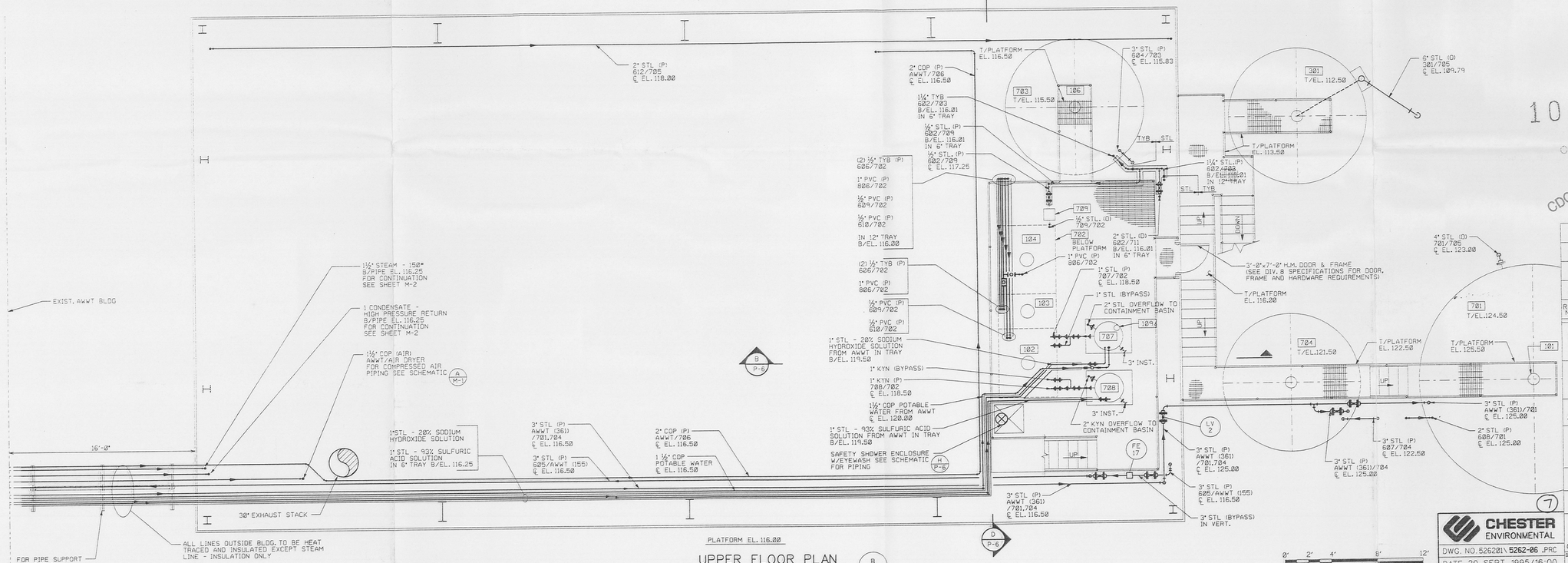


PLATFORM EL. 109.00

MEZZANINE FLOOR PLAN (A / P-5)

SCALE: 1/4"=1'-0"

NOTE:
1/4 TON HOIST WITH AN INTEGRAL TROLLEY.
20 FT. LIFTING DISTANCE. ACCO BABCOCK, INC.
OR APPROVED EQUAL.



PLATFORM EL. 116.00

UPPER FLOOR PLAN (B / P-5)

SCALE: 1/4"=1'-0"

0' 2' 4' 8' 12'
GRAPHIC SCALE

10 25 95 1639

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REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER	STAVER	FERMCO
		INITIALS AND DATE		
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SGM 10/5/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
MEZZANINE & UPPER FLOOR PIPING PLANS

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
JRY	8-95	DRS	8-95	TL	8-95

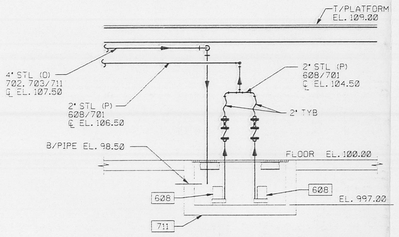
PLANT/BLDG NO.	FLOOR	SCALE	CLASS
		1/4"=1'-0"	

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL	
AWL	09/29/95	SGM	10/5/95		
CHESTER	DATE	STAVER	DATE		DATE

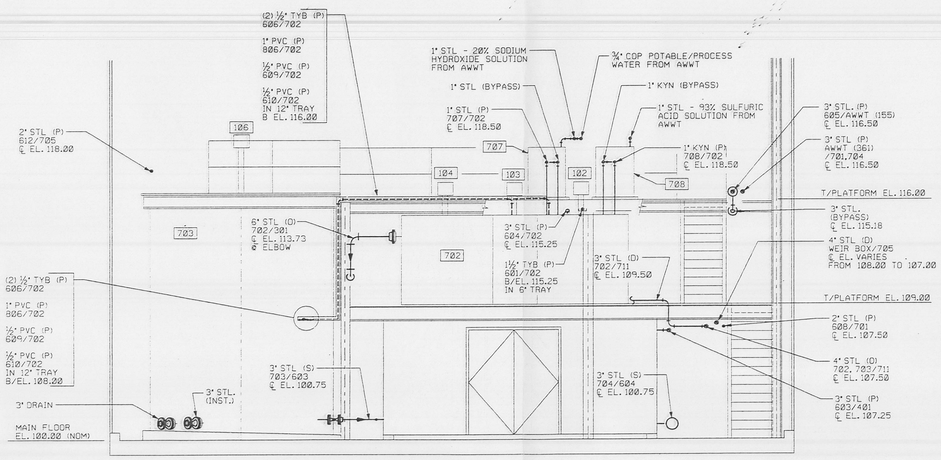
CHESTER ENVIRONMENTAL
DWG. NO. 526201\ 5262-06 .PRC
DATE 29 SEPT. 1995/16:00
CPU REF.

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-5	0

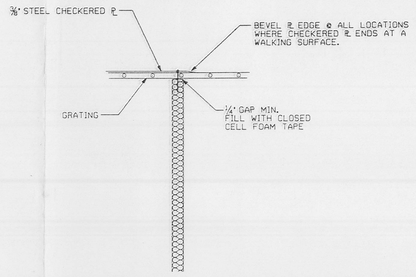
7



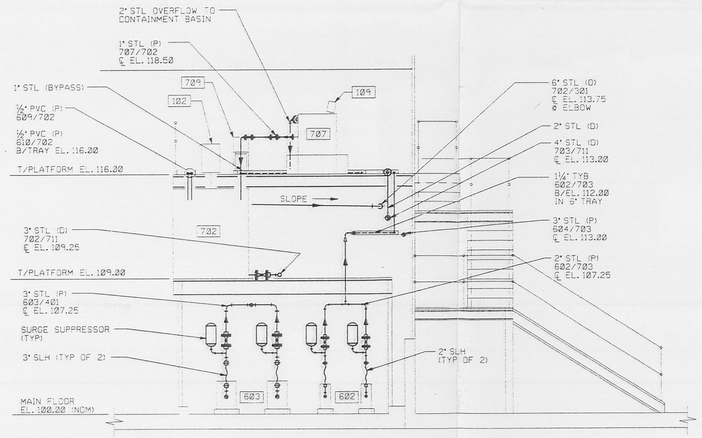
SECTION A
SCALE: 1/4"=1'-0"
P-4 P-6 P-5



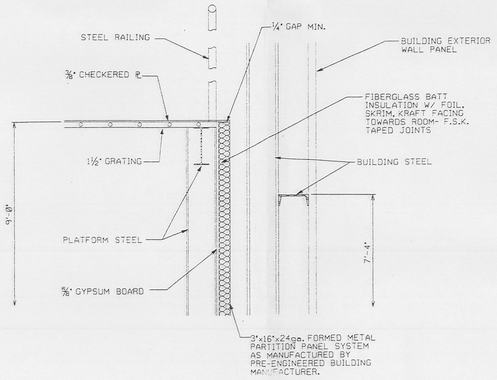
SECTION D
SCALE: 1/4"=1'-0"
P-4 P-6 P-5



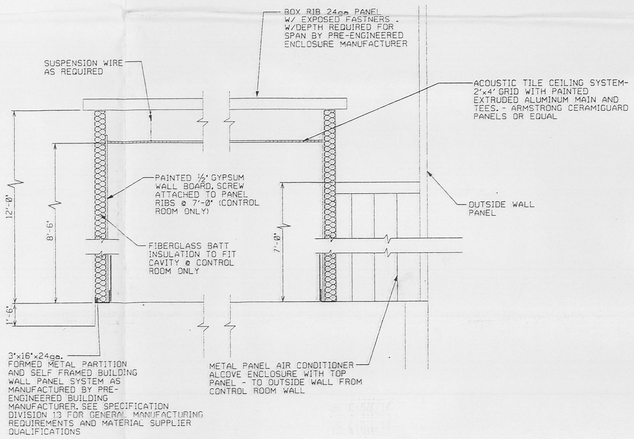
SECTION F
SCALE: 3/4"=1'-0"
P-4 P-6



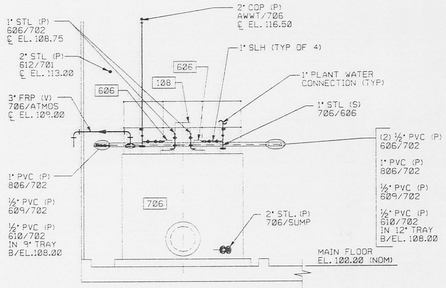
SECTION B
SCALE: 1/4"=1'-0"
P-4 P-6 P-5



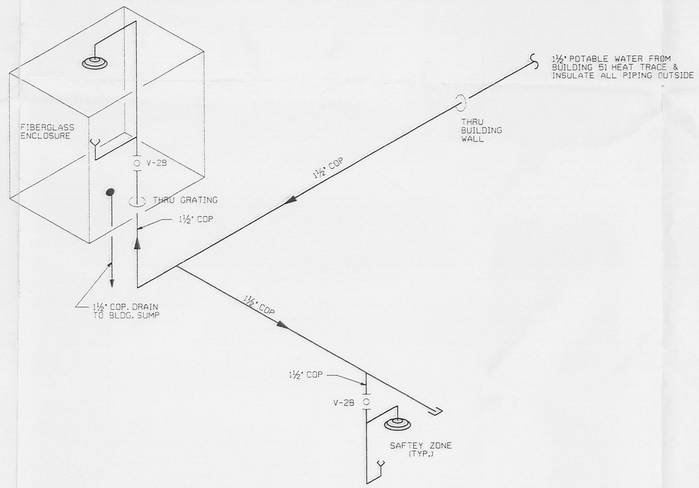
SECTION E
SCALE: 3/4"=1'-0"
P-4 P-6



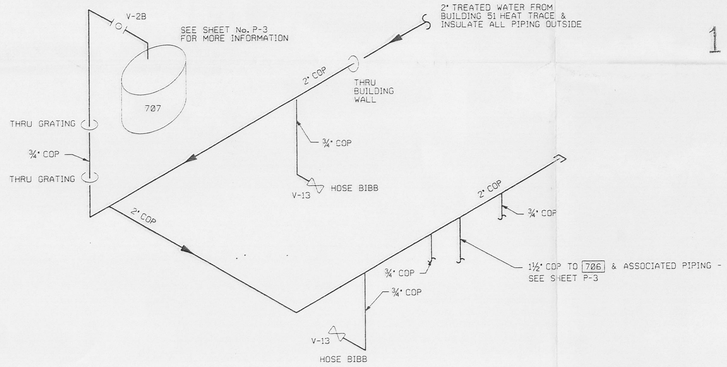
SECTION G
SCALE: 3/4"=1'-0"
P-4 P-6



SECTION C
SCALE: 1/4"=1'-0"
P-4 P-6 P-5



POTABLE WATER SCHEMATIC
SCALE: NONE
H
P-6



TREATED WATER SCHEMATIC
SCALE: NONE
J
M-1

LEGEND
SD = SEERVICE DROP

NOTE:
1. TREATED WATER SERVICE DROPS TO BE LOCATED IN THE VICINITY OF THE COMPRESSED AIR DROPS.

10 25 95 1639

CDC/CONTROLLED COPY NO ___
CDC/UNCONTROLLED

REV. NO.	ISSUE OR REVISION PURPOSE - DESCRIPTION	CHESTER INITIALS AND DATE	STAVER INITIALS AND DATE	FERMCO INITIALS AND DATE
0	CERTIFIED FOR CONSTRUCTION	AWL 09/29/95	SLB 10/6/95	

U.S. DEPARTMENT OF ENERGY
FERNALD ENVIRONMENTAL MANAGEMENT PROJECT

THIS DRAWING PREPARED BY
CHESTER ENVIRONMENTAL

PROJECT NAME
AWWT SLURRY DEWATERING FACILITY

DRAWING TITLE
PIPING SECTIONS AND SCHEMATICS

DRAWN BY	DATE	LEAD ENGINEER	DATE	CHECKED BY	DATE
JRY	8/95	DRS	8/95	TL	8/95

PLANT/BLDG NO.	FLOOR	SCALE	CLASS
		AS SHOWN	

SUBMITTED FOR APPROVAL		SUBMITTED FOR APPROVAL		FERMCO CRU APPROVAL
AWL	09/29/95	SLB	10/6/95	
CHESTER	DATE	STAVER	DATE	DATE

CHESTER ENVIRONMENTAL
DWG. NO. 526201\ 5262-07 .PRC
DATE 29 SEP. 1995/16:00
CPU REF.

DOE PROJECT NO.	FEMP PROJECT NO.	DRAWING INDEX CODE NO.	SHEET NO.	REV. NO.
	FSC566		P-6	0

GRAPHIC SCALE
0' 6" 0' 1' 2' 3'
0' 2' 4' 8' 12'