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f-00-9

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

JUL 0 2 1991

Mr. Arthur Kleinrath
U.S. Department of Energy
Dayton Area Office
P.O Box 66
Miamisburg, Ohio 45343

REPLY TO ATTENTION OF: 5HS-11

RE: U.S. DOE Mound Plant Review Comments
Site Scoping Report and Split Sample Plan

Dear Mr. Kleinrath:

Enclosed are the United States Environmental Protection Agency's (U.S. EPA's) comments on the "Site Scoping Report, Volume 4 - Engineering Map Series" for the Mound Plant site. Please provide a response to these comments within forty-five days of your receipt of this letter, or by August 20, 1991.

U.S. EPA and its oversight contractor, Donohue & Associates, Inc., find the proposed split sampling plan for the Operable Unit 3 soil boring program acceptable.

Please feel free to call me at (312) 353-6287 if you have any questions.

Sincerely,

Diana Mally

Diana Mally
Remedial Project Manager

cc: M. Hatcher, OEPA
D. Neff, EG&G Mound
T. Farmer, LANL ER-TSO
J. Price, Weston

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US DOE MOUND PLANT
Remedial Investigation
Site Scoping Report, Volume 4
Dated June 1991
US EPA

Specific Comments:

1. Mound Plant Utilities
   Page 3, Paragraph 1
   Please describe if the sewer is a gravity flow system or forced flow system.

2. Plate 2 - Is the condensate/cooling water being circulated? If not, the beginning and end points for the condensate/cooling water lines should be shown on this plate.

3. Plates 3 and 4 - What are the various symbols shown on these maps? Which are the inlet points and which are the manholes? These symbols should be specified in the legend.

4. Plates 3 and 4 - Are there any combined stormwater and sewer lines? The combined stormwater and sewer lines, if any, should be shown on the maps.

1-004-9

ROY F. WESTON, INC.
6501 AMERICAS PARKWAY, N.E.
SUITE 800
ALBUQUERQUE, NM 87110
505-884-5050
FAX: 505-884-5388

January 28, 1992

University of California
Los Alamos National Laboratory
Attention: Dr. Kenneth Rea
EES-14 ER TSO
P.O. Box 1663, MS K-485
Los Alamos, NM 87545

RE: ER Program, Mound Plant
Site Scoping Reports - Approval Sheets
RFW WO # 2744-41-18

Dear Dr. Rea:

Enclosed are copies of the approval pages for Volumes 1, 4, 5, 6, and 8 of the Site Scoping Report. At her request, these pages are being supplied to Diana Mally, US EPA Remedial Project Manager, for signature. These reports are considered complete and will be placed in the administrative record.

If you have any questions, please contact Bill Criswell or John Price.

Sincerely,

ROY F. WESTON, INC.

for William M. Little

Michael P. Mauzy, P.E.
ER Program, TSO Subcontractor
Project Manager

CWC/
Enclosures
pc w/encl: D. Neff (EG&G-MAT)
D. Mally (US EPA)
T. Farmer (ER TSO)
pc w/o encl: ER TSO File
scopltr6.wp

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Signature Page

This report is Volume 4 of a multiple-volume Site Scoping Report providing the background information pertinent to the remedial investigation/feasibility study (RI/FS) of the Mound Plant. Under the terms of the Federal Facility Agreement between DOE and US EPA, this report is submitted to US EPA for approval.

This report is approved by US EPA only for the purposes of scoping the RI/FS, and approval does not imply concurrence with the interpretations presented herein. It is recognized that additional information will be collected during the RI/FS and may supersede information contained in this report.

APPROVED: Diana Mally
Remedial Project Manager
U.S. Environmental Protection Agency
Region V

_____

29-01 -01 -07 -04 -9406160011

Environmental Restoration Program

# OPERABLE UNIT 9, SITE SCOPING REPORT VOLUME 4 - ENGINEERING MAP SERIES

## MOUND PLANT MIAMISBURG, OHIO

February 1992

**FINAL**

**Department of Energy**
**Albuquerque Field Office**

Environmental Restoration Program
Technical Support Office
Los Alamos National Laboratory

REFERENCE USE ONLY
9406160011

ENVIRONMENTAL RESTORATION PROGRAM

# OPERABLE UNIT 9,
# SITE SCOPING REPORT
# VOLUME 4 - ENGINEERING MAP SERIES

## MOUND PLANT
## MIAMISBURG, OHIO

February 1992

DEPARTMENT OF ENERGY
ALBUQUERQUE OPERATIONS OFFICE

ENVIRONMENTAL RESTORATION PROGRAM
TECHNICAL SUPPORT OFFICE
LOS ALAMOS NATIONAL LABORATORY

## FINAL

Note: Although this document is an approved Final document, some text may be marked as "Draft" in the footer. This indicates that no changes have been necessary between submission of the Draft, revision, and regulatory agency approval.

Signature Page

This report is Volume 4 of a multiple-volume Site Scoping Report providing the background information pertinent to the remedial investigation/feasibility study (RI/FS) of the Mound Plant. Under the terms of the Federal Facility Agreement between DOE and US EPA, this report is submitted to US EPA for approval.

This report is approved by US EPA only for the purposes of scoping the RI/FS, and approval does not imply concurrence with the interpretations presented herein. It is recognized that additional information will be collected during the RI/FS and may supersede information contained in this report.

APPROVED: Diana Mally
Remedial Project Manager
U.S. Environmental Protection Agency
Region V

Diana Mally

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Plate 5. Other Utilities
Plate 6. Tanks and Piping
Plate 7. City of Miamisburg Utilities Adjacent to Mound Plant
Plate 8. Property Ownership

ATTACHMENT A - RECORD OF SURVEY

## ACRONYMS

| | |
|---|---|
| DOE | U.S. Department of Energy |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| FFA | Federal Facilities Agreement |
| EPA | U.S. Environmental Protection Agency |
| ER | Environmental Restoration (Program) |
| NPDES | National Pollution Discharge Elimination System |
| BUSTR | Bureau of Underground Storage Tank Regulation |
| PVC | polyvinyl chloride |
| RCRA | Resource Conservation and Recovery Act |

# 1. INTRODUCTION

The U.S. Department of Energy (DOE) Mound Plant, Miamisburg, Ohio, was placed on the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA - also known as Superfund) National Priorities List on November 21, 1989 (54 Federal Register 48184). Pursuant to its National Priorities List status, DOE signed a CERCLA Section 120 Federal Facilities Agreement (FFA) with the U.S. Environmental Protection Agency (EPA) that became effective October 11, 1990. A similar agreement is currently (December 1990) in negotiation between the DOE and the Ohio EPA. The terms of the FFA require that DOE develop and implement remedial investigations and feasibility studies and conduct interim remedial actions in order to ensure that environmental impacts associated with past and present activities at the site are thoroughly investigated and appropriate action is taken to protect the public health and welfare and the environment.

The Albuquerque Operations Office of the DOE established the Environmental Restoration (ER) Program in 1984 to collect and assess environmental data in order to develop a conceptual site model, to assess both the nature and extent of contamination, and to identify potential exposure pathways and potential human and environmental receptors. These activities have been conducted under DOE policy for all facilities to comply with applicable environmental regulations. In order to provide EPA with sufficient information and data gathered during these previous investigations, a multi-volume scoping report providing background information has been prepared. The Site Scoping Report will provide descriptions and summaries of the current conditions and characteristics of Mound Plant and will consist of at least the following volumes:

1. Groundwater Data: February 1987 - July 1990
2. Geologic Log and Well Information Report
3. Radiologic Survey Report
4. Engineering Map Series
5. Topographic Map Series
6. Photo History Report
7. Waste Management Report
8. Environmental Monitoring Data
9. Bibliography

## 2. SCOPE OF ENGINEERING MAP SERIES

This report provides a series of engineering maps of Mound Plant as required by the FFA. These maps include plant utilities, municipal utilities adjacent to the plant, plant boundary surveys, and property owners adjacent to the plant with easements and surrounding land uses. The plant utility maps include fresh (potable) water lines, cooling water lines, sanitary and storm sewer lines, tanks and associated piping, and other underground utilities that do not carry liquids, but may provide contaminant pathways through excavated trenches and permeable pipe conduits. The plant utility maps were produced from electronic files provided by Mound Plant personnel. The other maps were either digitized from other sources or reproduced from existing maps. All of the maps included are reproduced at a scale of 1 inch = 200 ft and use the Ohio State Plane Coordinate System.

This set of maps is intended to complement other volumes of the Site Scoping Report. Additional maps that depict topography and surface drainages, waterways, wetlands, flood plains, and surface water containments are included in the "Volume 5 - Topographic Map Series" (DOE 1991b). The locations of wells in the existing groundwater monitoring network are included in "Volume 2 - Geologic Log and Well Information Report" (DOE 1990). Additional maps of sampling locations and results are included in other volumes of the Site Scoping Report as necessary.

## 3. MOUND PLANT UTILITIES

The Mound Plant utility maps are plotted on a standard Mound Plant digital data base map compiled by photogrammatic techniques (DOE 1991b). The maps are produced at a standard scale of 1 inch = 200 ft. The Mound Plant utility data files were obtained from plant personnel in Intergraph IGES digital format and required transformation to IGDS format for use within the ER Program. The data files additionally required transformation from the Mound Plant Coordinate System (approximately 25.5 degrees west of true north) to the Ohio State Plane Coordinate System. All of the maps generated by the ER Program have used or been converted the Ohio State Plane Coordinate System for consistency. The utility maps included in this report include the following:

Plate 1 - Potable Water Supply

Plate 2 - Condensate/Cooling Water Lines

Plate 3 - Sanitary Sewer Lines

Plate 4 - Storm sewer lines

Plate 5 - Other Utilities

Plate 6 - Tanks and Piping

These maps encompass the underground utilities at the plant. The potable water lines comprise the fresh water supply for domestic and industrial use. The condensate/cooling water lines comprise the supply and return lines for typically chemically treated water for recirculation in the cooling towers. The sanitary sewer lines carry treated water (Building 57 comprises the plant sanitary treatment plant) released to the Great Miami River through the National Pollution Discharge Elimination System (NPDES)-permitted Outfall 001. The majority of storm runoff results in water released to the Great Miami River under the permit of NPDES, through Outfall 002. A minority of storm water is generated on the Main Hill (released through NPDES Outfall 001) or the southernmost property (released unmetered to the Great Miami River), as shown on the map of surface water features (DOE 1991b).

The map of tanks and piping shows those underground lines that typically transmit fuel oil or industrial waste, including explosive liquors and radioactivity from the process facilities to the WD Building, where most radioactive wastes have been processed for disposal. The list of tanks is discussed in the "Operable Unit 8 Inactive Underground Storage Tanks Program Plan - Mound UST Regulatory Status Review" (DOE 1991a). Appendix A of that report is reproduced as Table III.1 for convenience.

## 4. CITY OF MIAMISBURG UTILITIES

Plate 7, City of Miamisburg utilities adjacent to Mound Plant, depicts the approximate locations and extent of the known utilities that border Mound Plant. The data for this map were compiled from the records of the city of Miamisburg and Montgomery County, Ohio. These utilities include water and sanitary sewer lines buried in and adjacent to the Miami-Erie Canal west of the plant. The dates of installation of these utilities are unknown. The city water line previously ran to the Miamisburg #2 well (now 0912), but it was disconnected from the city water network in 1969 (DOE 1990). The water line itself remains in service and provides water for domestic use to households that border the plant to the west, both within the city and in the northern part of Miami Township (see Plate 8). The municipal sanitary sewer was modified in the early 1970s when the pump house was built on the westside of Main Street. This pumphouse feeds a forced main line to the municipal treatment plant just south of the map area.

## 5. PROPERTY OWNERSHIP

Plate 8, Property Ownership, depicts the property owners and land use adjacent to Mound Plant as required by the FFA. The map was digitized from a series of property maps obtained from the Montgomery County Records Office. Property owners, as currently (May 1991) recorded by the county, are shown for the properties that lie adjacent to the plant and the Miami-Erie Canal, just west of the plant. The easements

**Table III.1. Summary of Tank Descriptions and Regulatory Applications**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| Bldg. 62 | 1 | 900 | Stack deluge tank | Stainless-steel-lined concrete tank intended to contain fire control water. Never used. | In service | Non-regulated |
| Room H-131 | 2 | 500[b] | Radioactive laundry water tank | Stainless-steel-lined concrete tank used to collect alpha wastewaters primarily from laundry operations. | In service | CERCLA |
| WD Bldg. | 3 | 30,000 | Alpha wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent alpha wastewaters. | In service | CERCLA |
| WD Bldg | 4 | 30,000 | Alpha wastewater influent tank | Fiberglass-lined double concrete/ steel tank used to collect influent alpha wastewaters. | In service | CERCLA |
| WD Bldg. | 5 | 30,000 | Alpha wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent alpha wastewaters. | In service | CERCLA |
| WD Bldg. | 6 | 30,000 | Alpha wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent alpha wastewaters. | In service | CERCLA |

Reference: CFR 1990
[a](i/i) denotes inground and inactive; (c/r December 1989) indicates tank was closed by removal and the date such closure took place.
[b]Denotes data are estimated or uncertain.
NA - Not Applicable.
BUSTR - Bureau of Underground Storage Tank Regulation
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
NPDES - National Pollution Discharge Elimination System
PVC - polyvinyl chloride
RCRA - Resource Conservation and Recovery Act

**Table III.1. (2 of 11)**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| WD Bldg. | 7 | 30,000 | Alpha wastewater effluent tank | Epoxy-lined concrete tank used to collect treated alpha wastewaters prior to discharge. | In service | CERCLA |
| WD Bldg. | 8 | 30,000 | Alpha wastewater effluent tank | Epoxy-lined concrete tank used to collect treated alpha wastewater prior to discharge. | In service | CERCLA |
| WD Bldg. | 9 | 30,000 | Alpha wastewater effluent tank | Epoxy-lined concrete tank used to collect treated alpha wastewater prior to discharge. | In service | CERCLA |
| WD Bldg. | 10 | 30,000 | Alpha wastewater effluent tank | Epoxy-lined concrete tank used to collect treated alpha wastewater prior to discharge. | In service | CERCLA |
| WDA Bldg. | 11 | 600 | Wash sump | PVC-lined steel tank used to collect alpha wastewater from floor and sink drains in WD Annex Building. | In service | CERCLA |
| WDA Bldg. | 12 | 3,750 | Beta wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent beta wastewaters. | In service | 40 CFR Part 280 Subparts A,F<br>BUSTR (Ohio)<br>CERCLA |

**Table III.1. (3 of 11)**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| WDA Bldg. | 13 | 3,750 | Beta wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent beta wastewaters. | In service | 40 CFR Part 280 Subparts A,F<br>BUSTR (Ohio)<br>CERCLA |
| WDA Bldg. | 14 | 3,750 | Alpha wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent alpha wastewaters. | In service | CERCLA |
| WDA Bldg. | 15 | 3,750 | Alpha wastewater influent tank | PVC-lined double concrete/steel tank used to collect influent alpha wastewaters. | In service | CERCLA |
| Water Tower | 16 | 5,000 | Drum storage pad sump | Concrete tank used to collect precipitation and, potentially, spills for a radiological waste drum storage pad. | In service | Non-regulated |
| A Bldg. | 17 | 400 | Decon shower collection tank | PVC-lined[b] steel tank used to collect wastewater from medical decon shower. | In service | CERCLA |
| A Bldg. | 18 | 400 | Decon shower collection tank | PVC-lined[b] steel tank used to collect wastewater from medical decon shower. | In service | CERCLA |

**Table III.1. (4 of 11)**

| Location | Tank # | Capacity (gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| Bldg. 37 | 19 | 500 | Sanitary waste tank | Unlined steel sanitary waste collection tank. | In service | Non-regulated |
| Room R-128 | 20 | 500[c] | Alpha wastewater collection tank | Double fiberglass tank set in concrete used to collect alpha wastewater. | In service | CERCLA |
| Room SW-8 | 21 | 200 | Beta wastewater collection tank | Stainless-steel-lined steel tank used to collect beta waste-waters. | In service | 40 CFR Part 280 Subparts A,F<br>CERCLA |
| Room SW-125 | 22 | 100 | Beta wastewater collection tank | Stainless-steel-lined steel tank used to collect beta waste-waters. | In service | 40 CFR Part 280 Subparts A,F<br>CERCLA |
| Room SW-143 | 23 | 100 | Beta wastewater collection tank | Stainless-steel-lined steel tank used to collect beta wastewaters. | In service | 40 CFR Part 280 Subparts A,F<br>CERCLA |

**Table III.1. (5 of 11)**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| P Bldg. | 24 | 25,000 | Fuel oil storage tank | Cathodically protected steel tank used to store fuel oil. | In service | 40 CFR Part 280<br>BUSTR (Ohio) |
| P Bldg. | 25 | 25,000 | Fuel oil storage tank | Cathodically protected steel tank used to store fuel oil. | In service | 40 CFR Part 280<br>BUSTR (Ohio) |
| P Bldg. | 26 | 25,000 | Fuel oil storage tank | Externally coated, cathodically protected steel tank used to store fuel oil. | In service | 40 CFR Part 280<br>BUSTR (Ohio) |
| P Bldg. | 27 | 25,000 | Fuel oil storage tank | Externally coated, cathodically protected steel tank used to store fuel oil. | In service | 40 CFR Part 280<br>BUSTR (Ohio) |
| R/SW/T Buildings | 28 | 5,000 | Diesel fuel storage tank | Unlined steel tank used to supply diesel fuel to emergency generator No. 1. | In service | 40 CFR Part 280 (except Subpart D)<br>BUSTR (Ohio) |

**Table III.1. (6 of 11)**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| Bldg. 57 | 29 | 850 | Diesel fuel storage tank | Fiberglass-reinforced-plastic tank used to supply diesel fuel to an emergency generator. | In service | 40 CFR Part 280 (except Subpart D)<br><br>BUSTR (Ohio) |
| Room M-108 | 30 | 250 | Metal plating rinse-water tank | Epoxy-lined concrete tank used to collect metal plating rinsewater prior to discharge. | In service | CERCLA |
| R Bldg. | 31 #10 | 500 | Sanitary waste tank | Unlined, stainless-steel[c] tank used to collect sanitary waste. | In service | Non-regulated |
| Bldg. 38 | 32 #11 | 4,000 | Diesel fuel storage tank | Unlined steel tank used to supply diesel fuel to Emergency Generator No. 2. | In service | 40 CFR Part 280 (except Subpart D)<br><br>BUSTR (Ohio) |
| G Bldg. | 33 | 4,000 | Gasoline storage tank | Unlined steel tank used to supply gasoline. | Unknown (c/r summer 1986) | 40 CFR Part 280<br><br>BUSTR (Ohio) |

Table III.1. (7 of 11)

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| G Bldg. | 34 | 4,000 | Gasoline storage tank | Unlined steel tank used to supply gasoline. | Unknown (c/r summer 1986) | 40 CFR Part 280<br>BUSTR (Ohio) |
| G Bldg. | 35 | 5,000 | Gasoline storage tank | Fiberglass-reinforced-plastic tank used to supply gasoline. | Unknown (c/r summer 1986) | 40 CFR Part 280<br>BUSTR (Ohio) |
| Old SD Bldg. | 36 | 7,500 | Sanitary waste treatment tank | Unlined concrete tank used in sanitary waste treatment. | 1975 (i/i) | CERCLA |
| Old SD Bldg. | 37 | 30,000 | Sanitary waste treatment tank | Unlined concrete tank used in sanitary waste treatment. | 1975 (i/i) | CERCLA |
| Old SD Bldg. | 38 | 7,500 | Sanitary waste treatment tank | Unlined concrete tank used in sanitary waste treatment. | 1975 (i/i) | CERCLA |
| Bldg. 41 | 39 | 3,466 | Alpha wastewater pumping station tank | Stainless-steel-lined steel tank used to collect alpha wastewaters and pump them to WD Building. | Unknown (c/r October 1987) | CERCLA |
| Bldg. 41 | 40 | 3,466 | Alpha wastewater pumping station tank | Stainless-steel-lined steel tank used to collect alpha wastewaters and pump them to WD Building. | Unknown (c/r October 1987) | CERCLA |

Table III.1. (8 of 11)

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| SM Bldg. | 41 | 5,000 | Alpha wastewater collection tank | Unlined steel tank used to collect alpha wastewaters. | 1972 (c/r June 1986) | CERCLA |
| SM Bldg. | 42 | 3,000 | Alpha wastewater collection tank | Unlined steel tank used to collect alpha wastewaters. | 1972 (c/r June 1986) | CERCLA |
| SM Bldg. | 43 | 1,000 | Alpha wastewater collection tank | Bituminous-lined steel tank used to collect alpha wastewaters. | 1972 (c/r November 1987) | CERCLA |
| SM Bldg. | 44 | 1,000 | Alpha wastewater collection tank | Bituminous-lined steel tank used to collect alpha wastewaters. | 1972 (c/r November 1987) | CERCLA |
| WDA Bldg. | 45 | 3,750 | Alpha wastewater effluent tank | PVC-lined steel tank used to collect treated alpha wastewaters prior to discharge. | Unknown (i/i) | CERCLA |
| WDA Bldg. | 46 | 3,750 | Alpha wastewater effluent tank | PVC-lined steel tank used to collect treated alpha wastewaters prior to discharge. | Unknown (i/i) | CERCLA |
| WDA Bldg. | 47 | 3,750 | Alpha wastewater effluent tank | PVC-lined steel tank used to collect treated alpha wastewaters prior to discharge. | Unknown (i/i) | CERCLA |
| Bldg. TF2 | 48 | | Diesel fuel storage tank | No such tank existed. Actually above-ground propane tank. | NA | NA |

Table III.1. (9 of 11)

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| Bldg. 34 | 49 | 5,000 | Aviation fuel storage tank | Unlined steel tank used to supply aviation fuel for container burn testing. | 1975 (c/r November 1990) | 40 CFR Part 280<br>BUSTR (Ohio) |
| Bldg. 51 | 50 | 1,000 | Waste solvent storage tank | Unlined steel tank used to supply incinerator with waste solvents. | 1972 (c/r December 1990) | RCRA Corrective Action<br>CERCLA |
| Bldg. 43 | 51 | 1,000 | Product solvent storage tank | Stainless steel tank constructed to store solvent for use in Building 43. Never used. | (c/r December 1990) | Non-regulated |
| Bldg. 27 | 52 | 1,000 | Diesel fuel storage tank | No such tank existed. Actually above-ground propane tank. | NA | NA |
| Bldg. 58 | 53 | 3,000 | Diesel fuel storage tank | Unlined steel tank used to supply diesel fuel to Emergency Generator No. 6. | Unknown (c/r December 1989) | 40 CFR Part 280<br>BUSTR (Ohio) |
| Bldg. 56 | 54 | 825 | Diesel fuel storage tank | Unlined steel tank used to supply diesel fuel to an emergency generator. | Unknown (c/r December 1989) | 40 CFR Part 280<br>BUSTR (Ohio) |

Table III.1. (10 of 11)

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| WD | 55 | 600 | Wash sump | Steel-lined concrete tank used to collect alpha wastewater from floor and sink drains in the WD Building. | In service | CERCLA |
| Bldg. 1 | 56 | b | Settling basin | Concrete basin used to filter and settle out explosive elements in an explosive production process wastewater stream. | Unknown (I/I) | ND |
| Bldg. 43 | 57 | 500 | Settling basin | Concrete basin used to filter and settle out explosive elements in an explosive production process wastewater stream. | Unknown (I/I) | ND |
| Bldg. 27 | 58 | b | Settling basin | Concrete basin used to filter and settle out explosive elements in an explosive production process wastewater stream. | In Service | ND |
| SD Bldg. | 59 | 7,500[c] | Grit chamber | Concrete tank | In service | NPDES CERCLA |
| SD Bldg. | 60 | 1,870[c] | Comminutor | Concrete tank | In service | NPDES CERCLA |
| SD Bldg. | 61 Equalization basins 62 63 64 | 4 x 10,770[c] Four tanks | In Service | NPDES | | CERCLA |

**Table III.1. (11 of 11)**

| Location | Tank # | Capacity (Gallons) | Purpose | Comments | Last Date Used[a] | Regulatory Category |
|---|---|---|---|---|---|---|
| SD Bldg. | 65<br>66 | 2 x 59,840[c] | Aeration basins | Two tanks | In service | NPDES<br>CERCLA |
| SD Bldg. | 67<br>68 | 2 x 14,960[c] | Clarifiers | Two metal tanks | In service | NPDES<br>CERCLA |
| SD Bldg. | 69<br>70 | 2 x 673[c] | Chlorine contact chambers | Two tanks | In service | NPDES<br>CERCLA |

owned by the plant are shown as currently known. Some of the owners of the properties on which the easements are held have changed since the licenses were obtained, and in these cases, the easement licenses were assumed to be transferred, although, no records of these transfers were found; e.g., such as from the state of Ohio to the city of Miamisburg.

## 6. RECORD OF BOUNDARY SURVEY

In 1982, Mound Plant, then under operation by Monsanto Research Corporation, contracted with Lockwood, Jones, and Beals of Dayton, Ohio, to conduct a property description after purchase of the new property. The three drawings produced by that survey are reproduced here without modification (Attachment A). These drawings depict the property legal descriptions, fencing, and boundary surveys, as well as the survey of the Ohio State Plane Coordinate System control monuments.

## 7. REFERENCES


CFR. 1990. "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks." Code of Federal Regulations, Title 40, Chapter I. U.S. Environmental Protection Agency, Office of the Federal Register, National Archives and Records Administration. July 1, 1990.

DOE. 1990. "Site Scoping Report: Volume 2 - Geologic Log and Well Information Report." U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico. December 1990.

DOE 1991a. "Inactive Underground Storage Tanks Program Plan - Mound UST Regulatory Status Review." U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico. March, 1991.

DOE. 1991b. "Site Scoping Report: Volume 5 - Topographic Map Series." U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico. May, 1991.

ER PROGRAM

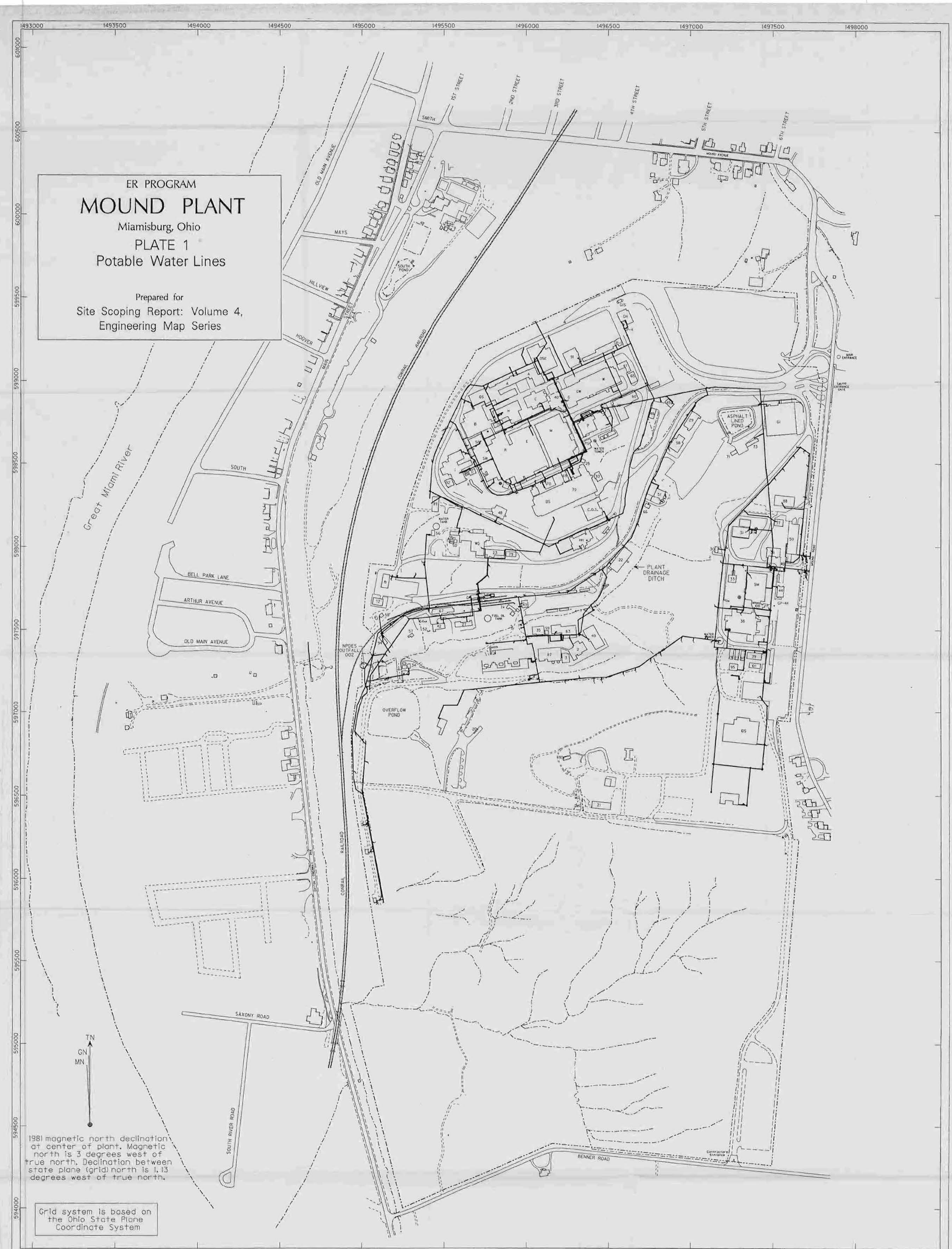
# MOUND PLANT

Miamisburg, Ohio

## PLATE 1
## Potable Water Lines

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




1981 magnetic north declination at center of plant. Magnetic north is 3 degrees west of true north. Declination between state plane (grid) north is 1.13 degrees west of true north.

Grid system is based on the Ohio State Plane Coordinate System

# Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities

NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically complied from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

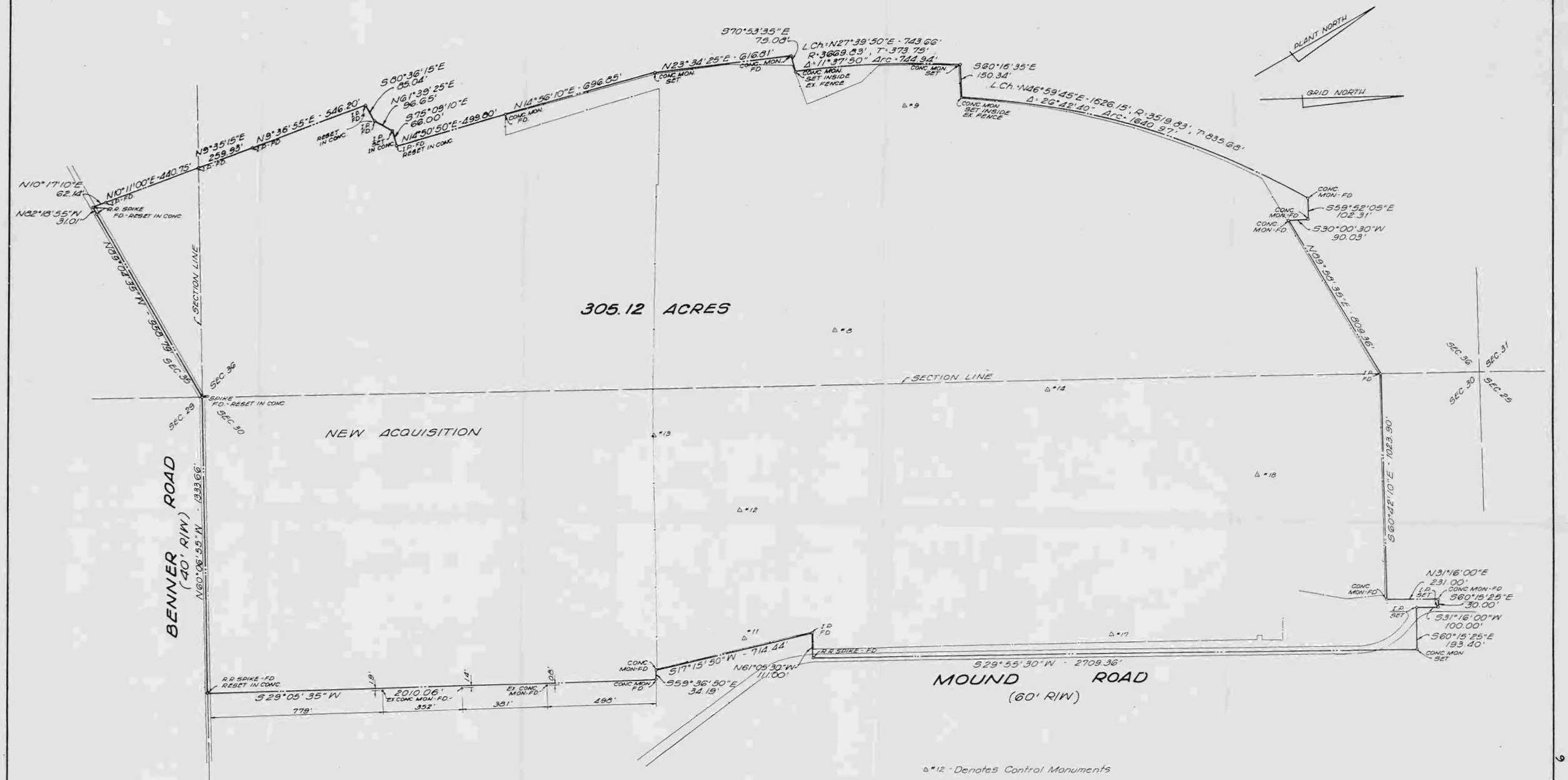
3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

0 100 200 400 600 800 1000
Scale In Feet


WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445


[120,115R4F X.DGN 052991




Δ-12 - Denotes Control Monuments

NOTE: Bearings based on Plant North

SCALE: 1"-200' JOB 11005

RECORD OF SURVEY
FOR FENCING
MOUND FACILITIES
CITY OF MIAMISBURG-MONTGOMERY COUNTY, OHIO

| DES | DCO |
|---|---|
| DR | NHC |
| CK | JJB |
| DATE | 6-1-82 |

LJB LOCKWOOD, JONES & BEALS
CIVIL AND STRUCTURAL ENGINEERS
Dayton, Ohio Covington, Ky.

PROJECT 2149
DWG. NO. 1 OF 3

| ISS. | DATE | REVISION | BY | CHK'D | APPRD. |
|---|---|---|---|---|---|
| A | 7-82 | ORIG ISSUE | G-8 | | WBC |

352036 01001

ER PROGRAM

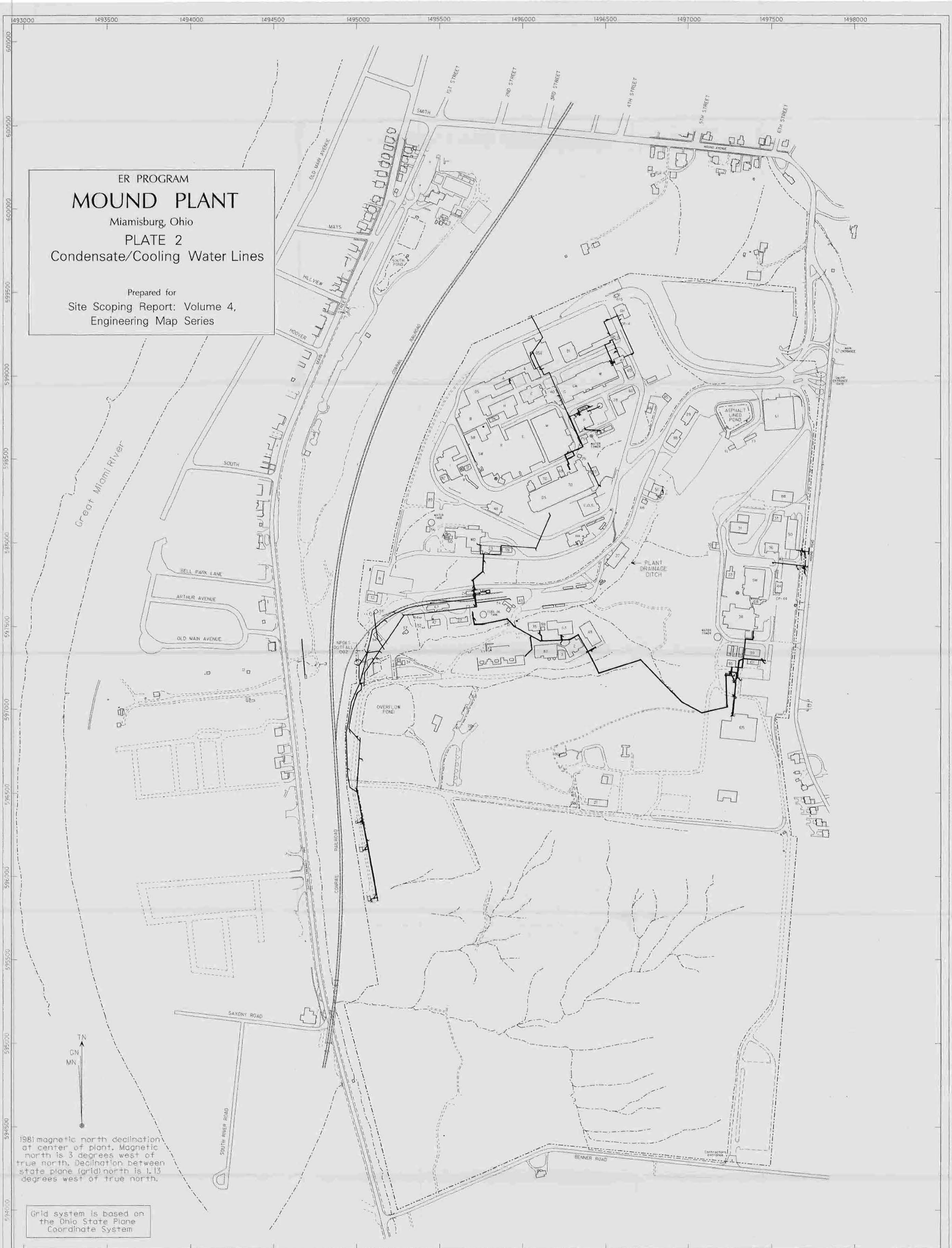
# MOUND PLANT

Miamisburg, Ohio

## PLATE 2
## Condensate/Cooling Water Lines

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




# Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities

NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

0 100 200 400 600 800 1000
Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

(120.13SR4FX.DGN 052991

ER PROGRAM

# MOUND PLANT

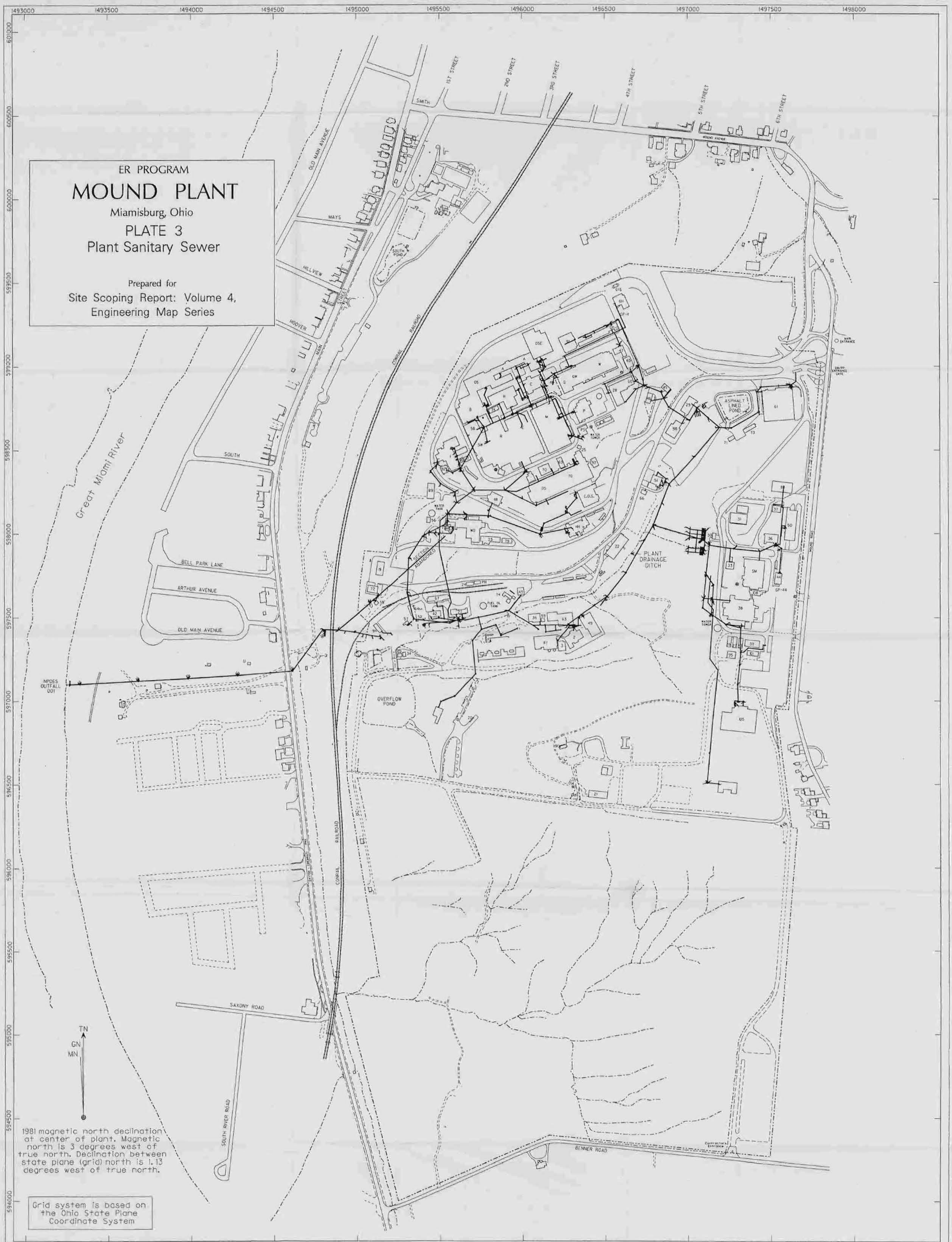
Miamisburg, Ohio

## PLATE 3

## Plant Sanitary Sewer

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




1981 magnetic north declination at center of plant. Magnetic north is 3 degrees west of true north. Declination between state plane (grid) north is 1.13 degrees west of true north.

Grid system is based on the Ohio State Plane Coordinate System

# Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities

## NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

0 100 200 400 600 800 1000

Scale in Feet


WESTON

MANAGERS DESIGNERS/CONSULTANTS

5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445


[120.13SR4FX.DGN 052991

ER PROGRAM

# MOUND PLANT

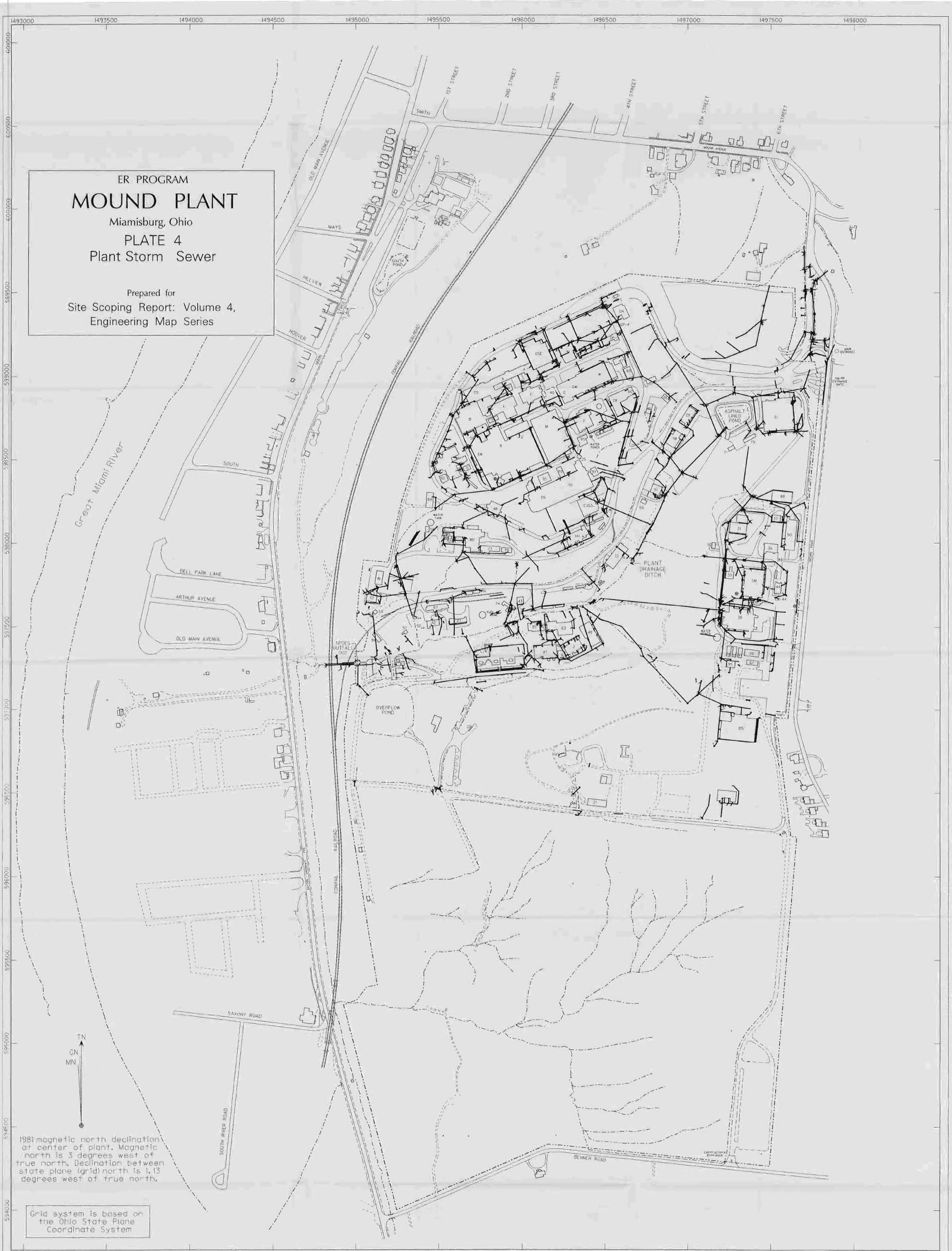
Miamisburg, Ohio

## PLATE 4

## Plant Storm Sewer

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




# Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities

NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

0 100 200 400 600 800 1000

Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

ER PROGRAM

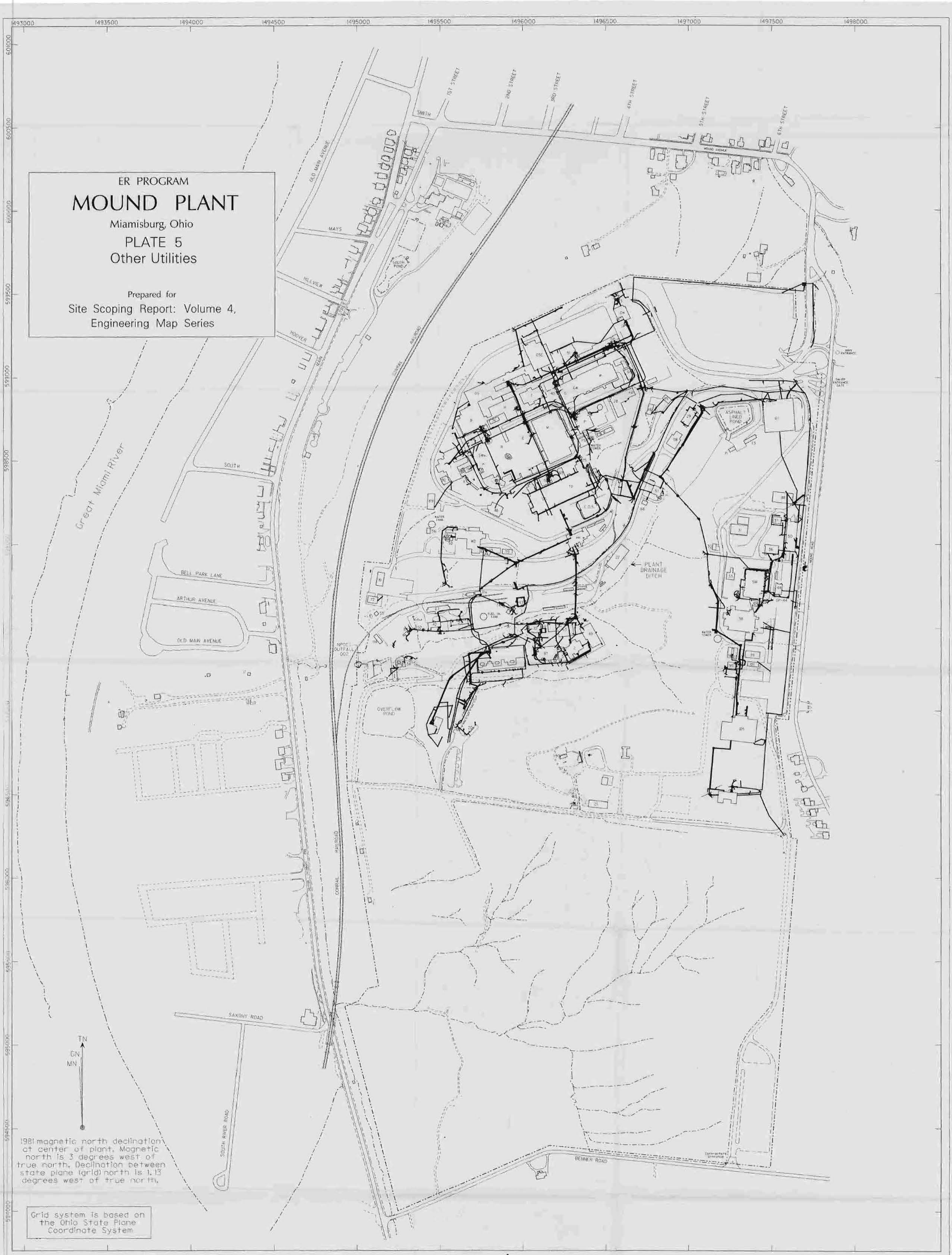
# MOUND PLANT

Miamisburg, Ohio

## PLATE 5
## Other Utilities

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




# Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities

## NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map, Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

0 100 200 400 600 800 1000
Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

ER PROGRAM

# MOUND PLANT

Miamisburg, Ohio

## PLATE 6
## Tanks and Piping

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series

1981 magnetic north declination at center of plant. Magnetic north is 3 degrees west of true north. Declination between state plane (grid) north is 1.13 degrees west of true north.

Grid system is based on the Ohio State Plane Coordinate System

## Legend

- 53 Structures
- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Fences
- Retaining Wall
- Mound Plant Perimeter Fenceline
- Mound Plant Utilities
- 2 Tank with Tank Number

NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data was photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

4. Utility data supplied by Mound Plant Engineering Department.

5. Numbered tanks described in Inactive Underground Storage Tanks Program Plan: Regulatory Status Review. U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico, March 1991.

0 100 200 400 600 800 1000
Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

060491
L120.1JSR4FX.DGN

ER PROGRAM

# MOUND PLANT

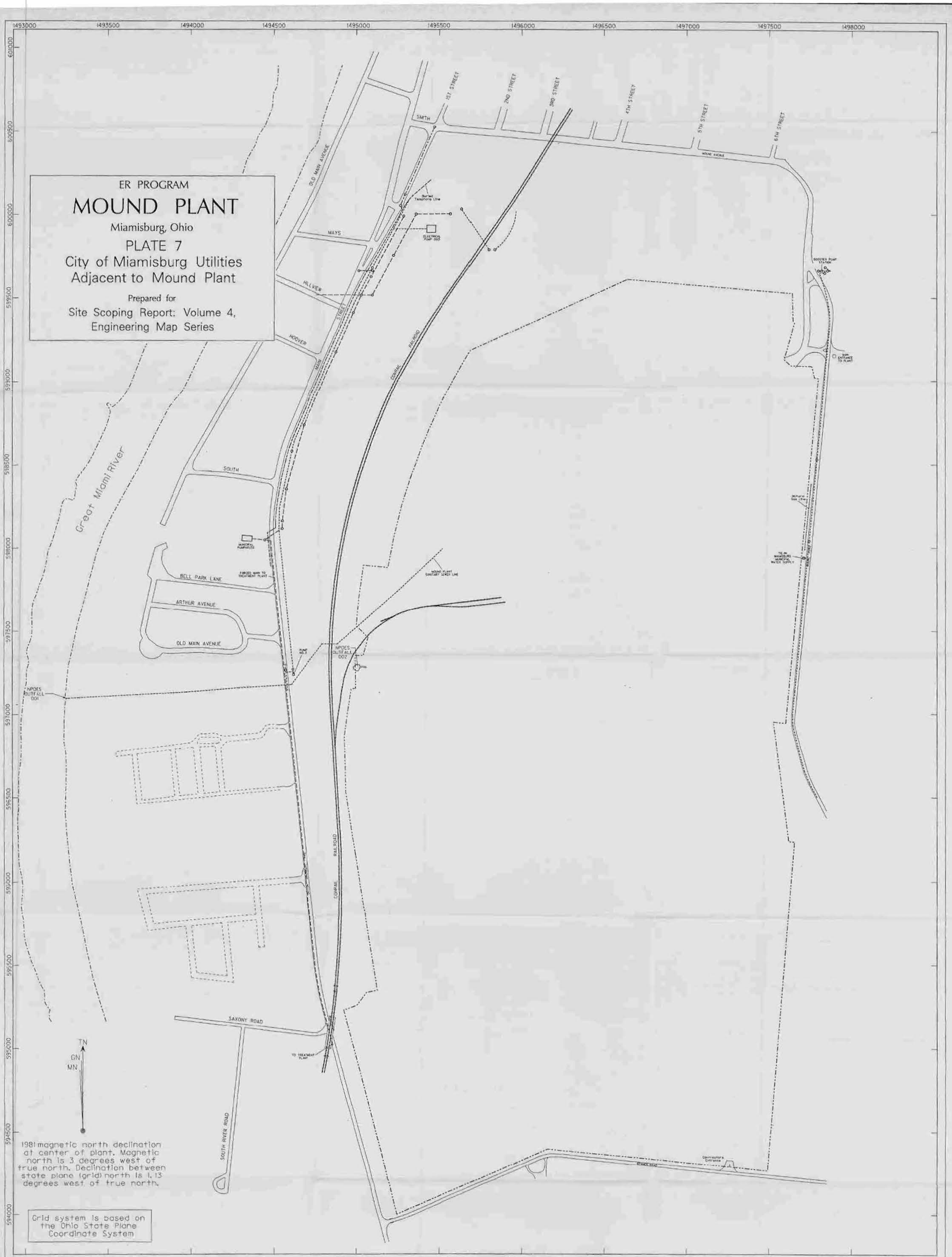
Miamisburg, Ohio

## PLATE 7

City of Miamisburg Utilities
Adjacent to Mound Plant

Prepared for

Site Scoping Report: Volume 4,
Engineering Map Series




# Legend

- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Mound Plant Perimeter Fenceline
- Storm Water Sewer
- Water Supply
- Sanitary Sewer
- Buried Telephone Line
- Natural Gas Line

## NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data were photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map, dated 3/12/86 from Monsanto Research Corp.

0 100 200 400 600 800 1000
Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

U120,13SR4_7.DGN 053091

ER PROGRAM

# MOUND PLANT

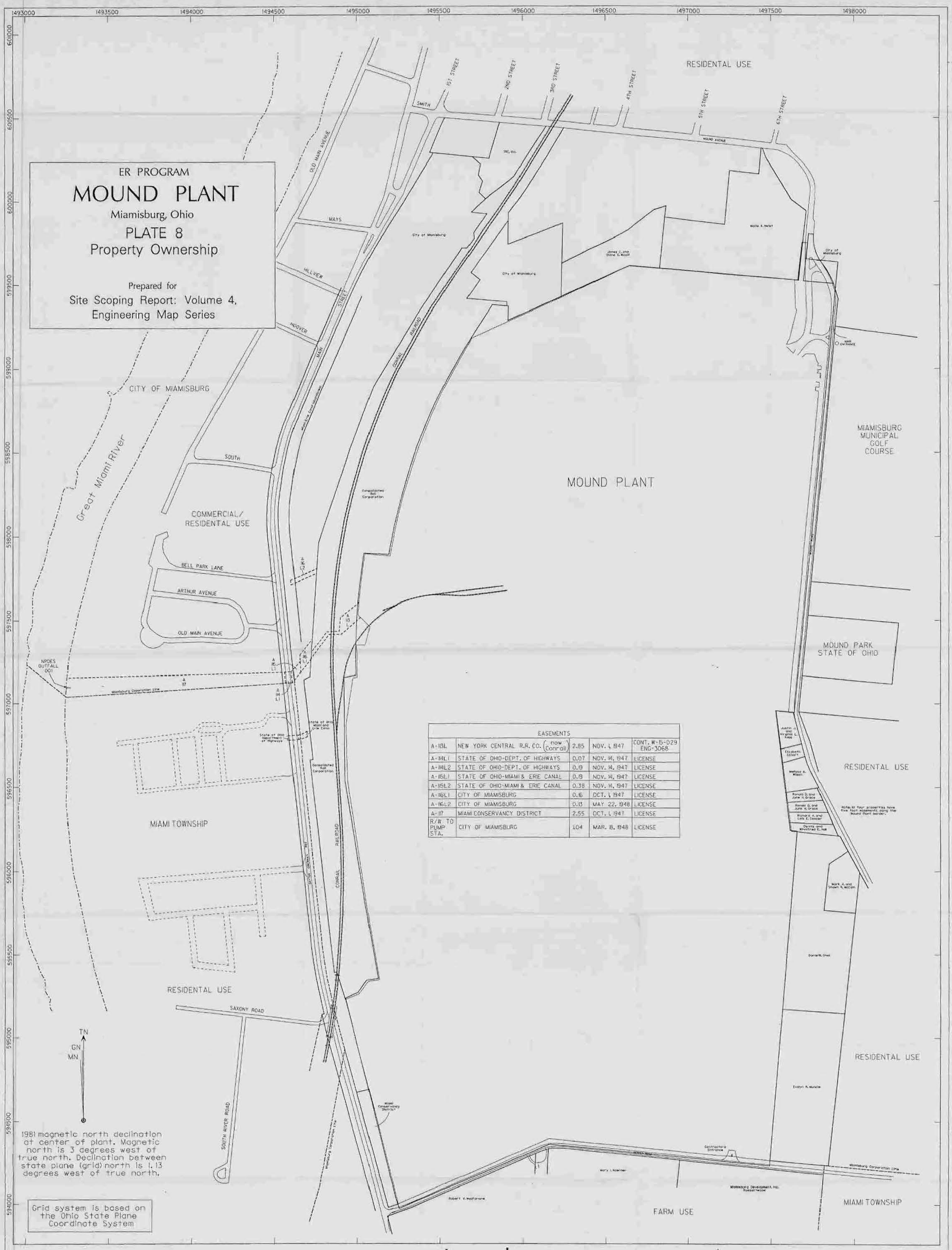
Miamisburg, Ohio

## PLATE 8

Property Ownership

Prepared for

Site Scoping Report: Volume 4, Engineering Map Series




1981 magnetic north declination at center of plant. Magnetic north is 3 degrees west of true north. Declination between state plane (grid) north is 1.13 degrees west of true north.

Grid system is based on the Ohio State Plane Coordinate System

| EASEMENTS | | | | |
|---|---|---|---|---|
| A-113L | NEW YORK CENTRAL R.R. CO. (now Conrail) | 2.85 | NOV. 1, 1947 | CONT. W-15-029 ENG-3068 |
| A-114L1 | STATE OF OHIO-DEPT. OF HIGHWAYS | 0.07 | NOV. 14, 1947 | LICENSE |
| A-114L2 | STATE OF OHIO-DEPT. OF HIGHWAYS | 0.19 | NOV. 14, 1947 | LICENSE |
| A-115L1 | STATE OF OHIO-MIAMI & ERIE CANAL | 0.19 | NOV. 14, 1947 | LICENSE |
| A-115L2 | STATE OF OHIO-MIAMI & ERIE CANAL | 0.38 | NOV. 14, 1947 | LICENSE |
| A-116L1 | CITY OF MIAMISBURG | 0.16 | OCT. 1, 1947 | LICENSE |
| A-116L2 | CITY OF MIAMISBURG | 0.13 | MAY 22, 1948 | LICENSE |
| A-117 | MIAMI CONSERVANCY DISTRICT | 2.55 | OCT. 1, 1947 | LICENSE |
| R/W TO PUMP STA. | CITY OF MIAMISBURG | 1.04 | MAR. 18, 1948 | LICENSE |

## Legend

- Paved Roadway
- Unpaved Roadway
- Railroad
- Water
- Property Boundary
- Fences

NOTES:

1. The electronic base map data file was obtained by WESTON from Woolpert Consultants, Inc., Dayton, Ohio. The data were photogrammetrically compiled from aerial photography dated 12/08/85.

2. WESTON converted MOUND plant coordinates to Ohio State Plane Coordinates using an algorithm provided by Oak Ridge National Laboratory, Grand Junction Project Office.

3. Area west of Dayton-Cincinnati Pike was digitized from a hand drafted map. Dated 3/12/86 from Monstanto Research Corp.

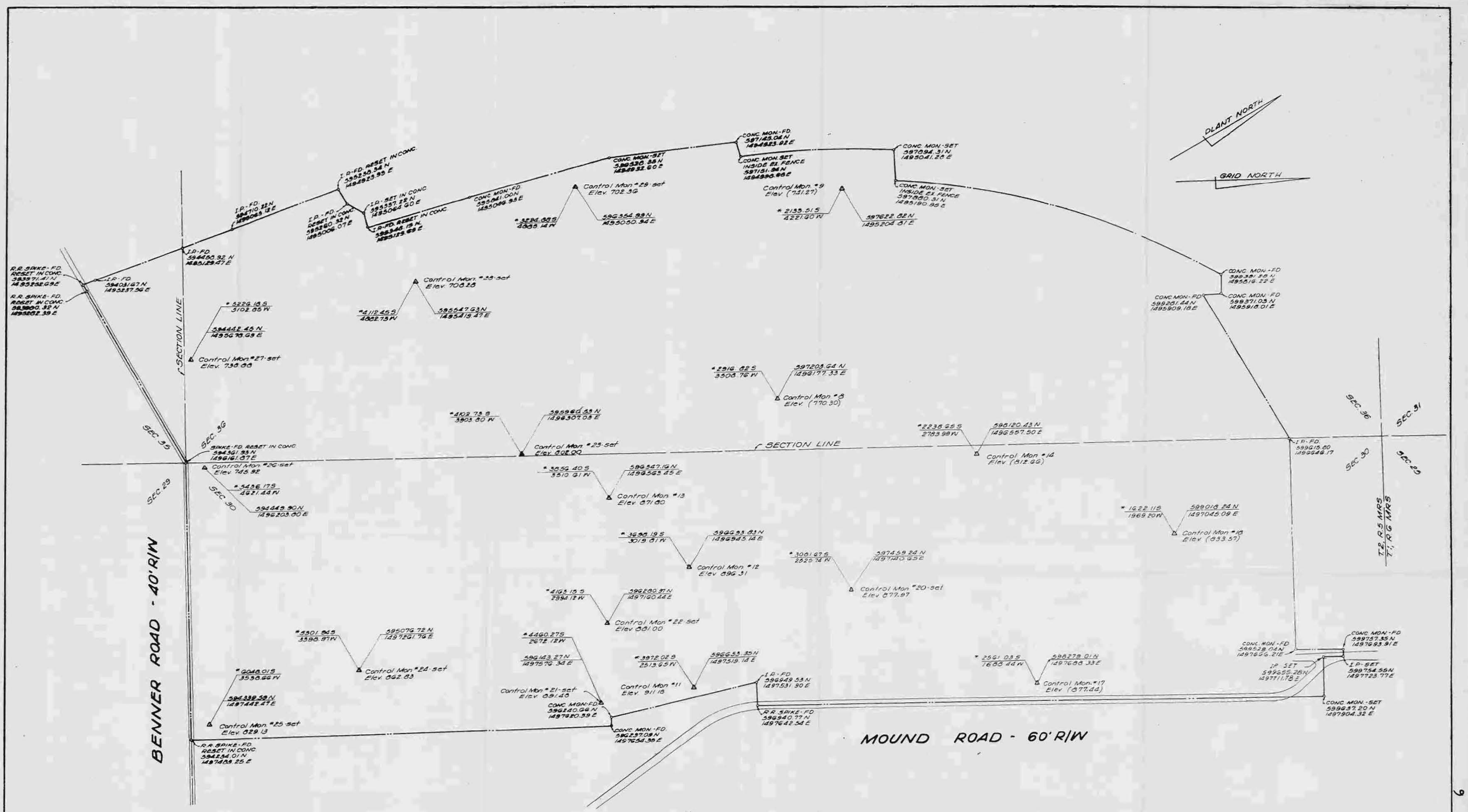
4. Private property boundaries shown are approximate and were digitized from county engineer map, Montgomery County, Ohio.

0 100 200 400 600 800 1000

Scale in Feet

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5301 CENTRAL AVENUE N.E.
SUITE 1000
ALBUQUERQUE, NM 87108
PHONE: (505) 255-1445

D120.115R4_8.DGN 053091




NOTE: Existing Control Monuments not shown were not included with this survey.

596553.35 N / 1497519.14 E = Denotes State Plane Coordinates

* 3972.02 S / 2513.65 W = Denotes Plant Coordinates

Elev. (877.44) = Denotes Elevations Established by Others

| ISS. | DATE | REVISION | BY | CHK'D | APPRD. |
|---|---|---|---|---|---|
| A | 7-82 | ORIG. ISSUE | GB | | WBC |

SCALE: 1" = 200' JOB 11005

STATE PLANE COORDINATES FOR

# MOUND FACILITIES

CITY OF MIAMISBURG - MONTGOMERY COUNTY, OHIO

DES. DCO
DR. NHC
CK. JJB
DATE 6-1-82

LJB LOCKWOOD, JONES & BEALS
CIVIL AND STRUCTURAL ENGINEERS
Dayton, Ohio Covington, Ky.

PROJECT 2149
DWG. NO. 3 OF 3

352036 01003