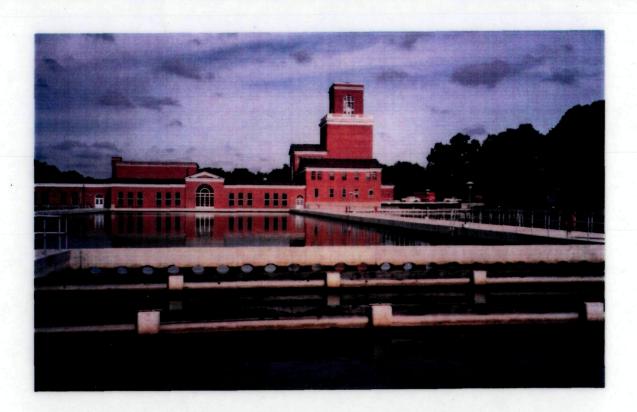
## DESIGN MEMORANDUM



## Dalecarlia Water Treatment Plant and Georgetown Reservoir Residuals Collection and Treatment

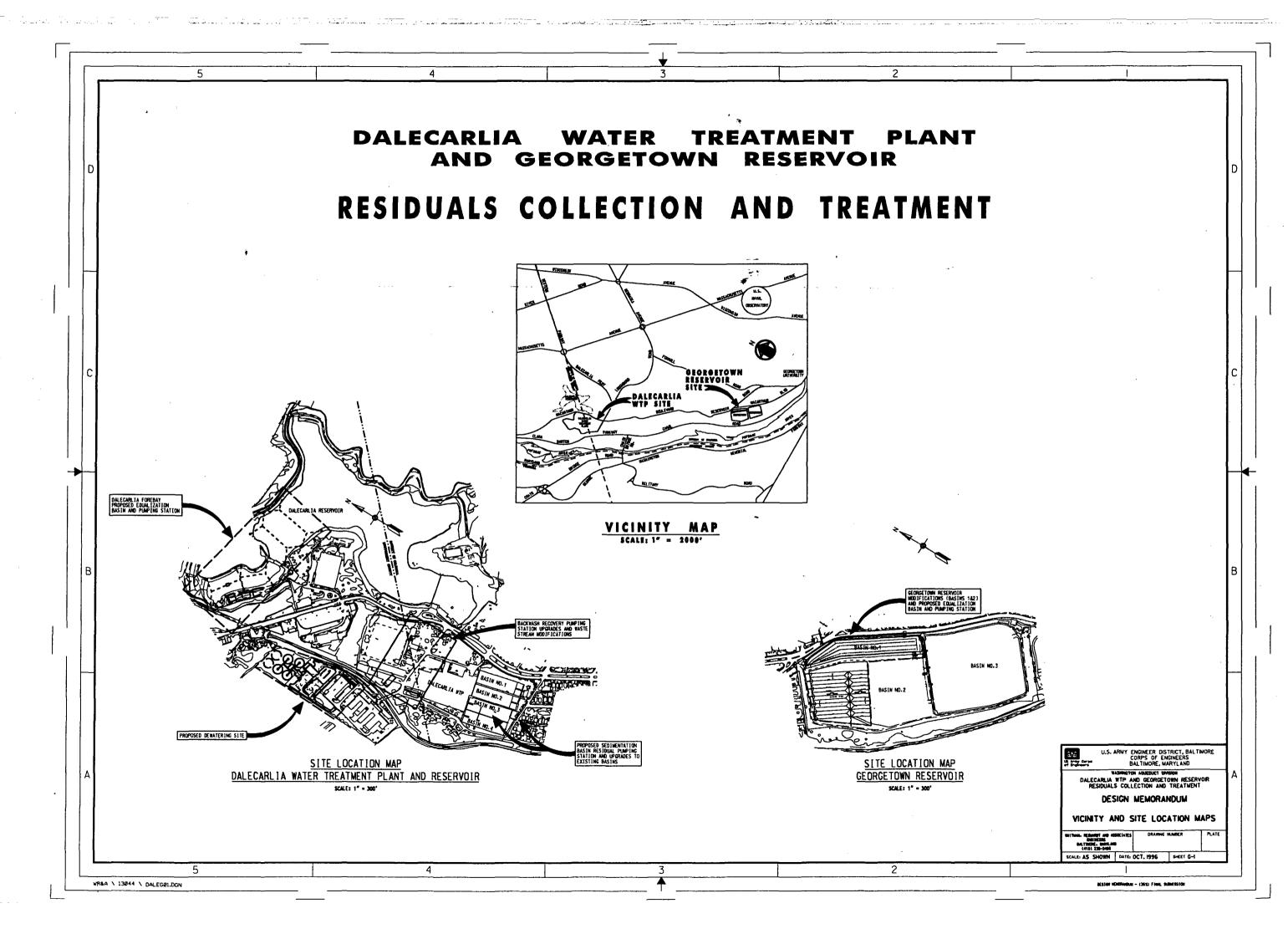


U.S. Army Corps of Engineers Baltimore District Washington Aqueduct Division

## DESIGN MEMORANDUM - DRAWINGS BOOK 2 OF 5

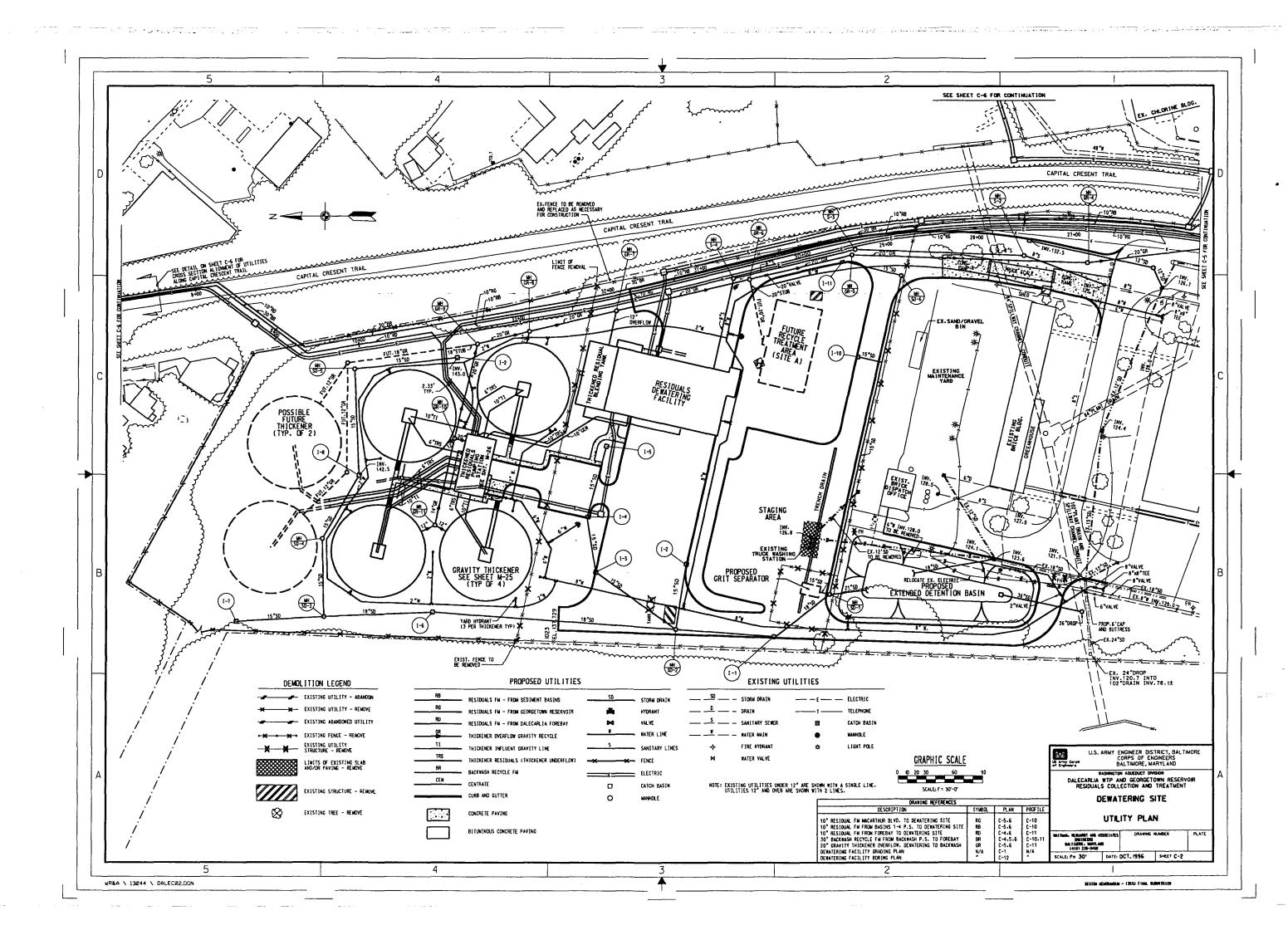


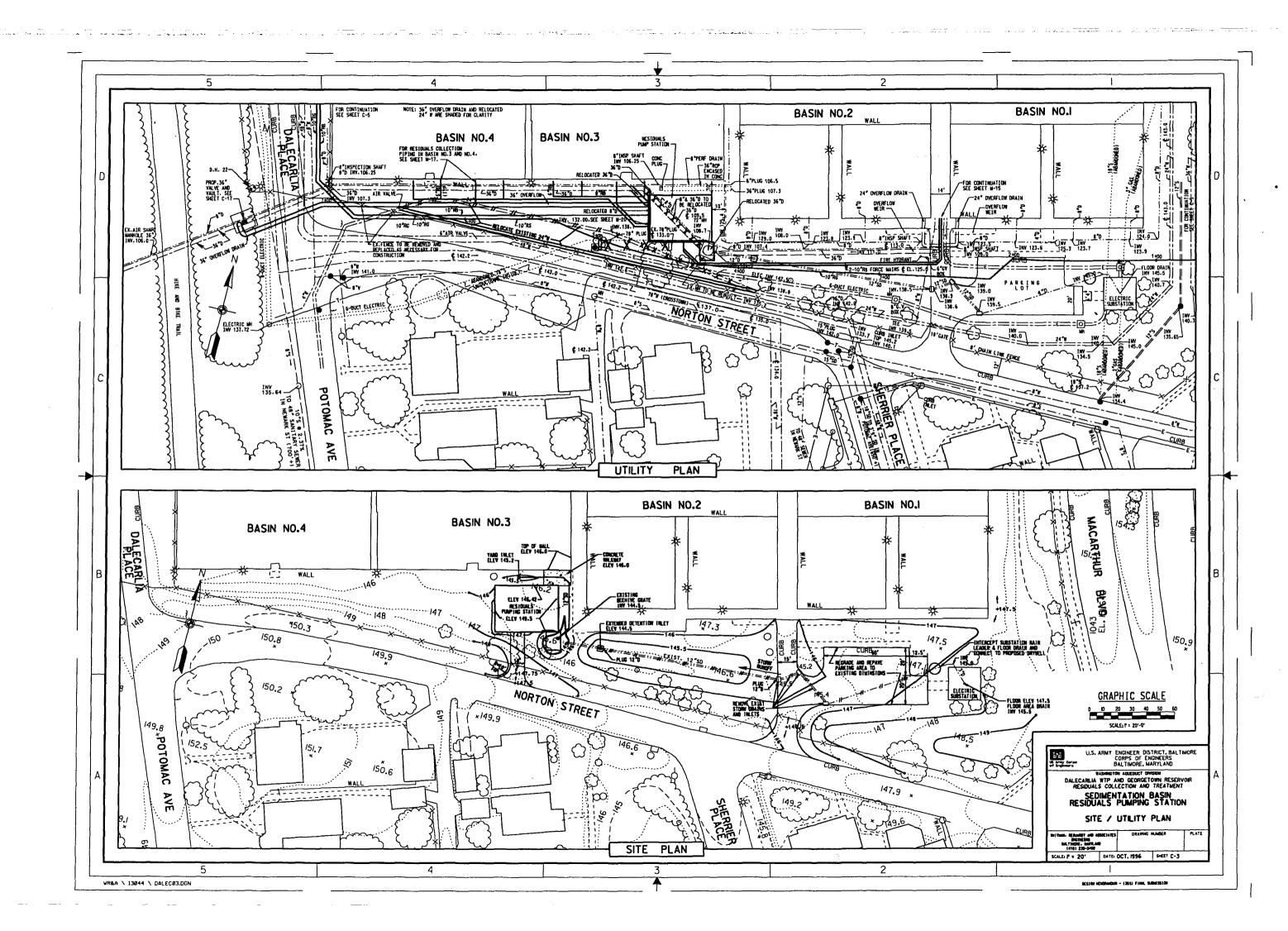
	 	<del>-</del>	 	<del></del>		 	<del></del>
i							
1							
1							
_							
l							
ı							
E							
i							
j							
l							
- 1							
<u>.</u>							
i					•		
B							
<b>.</b>							
1							
- -							
<u>.</u>							
i							
4							
_	 				<u> </u>	 	<u> </u>

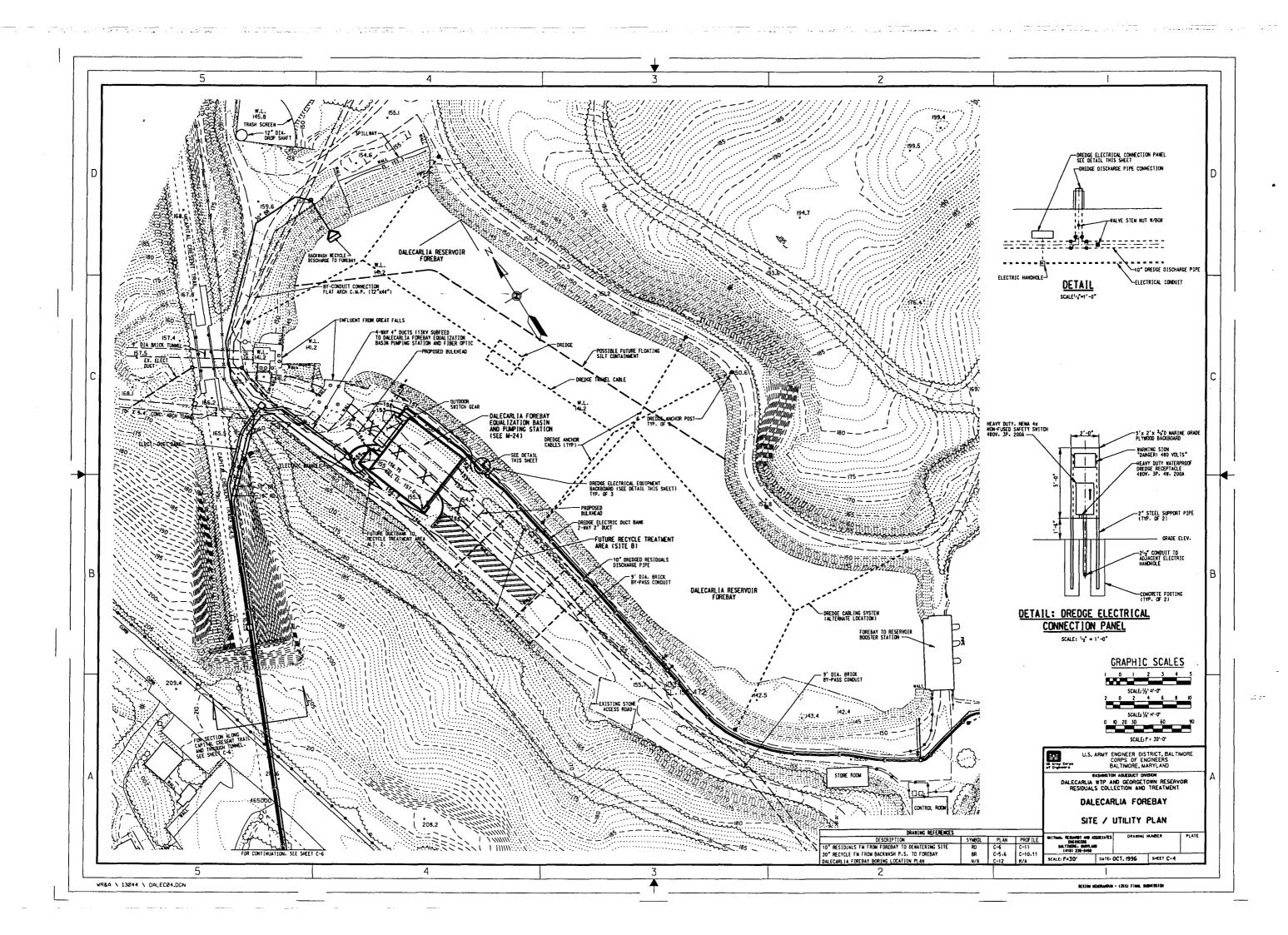


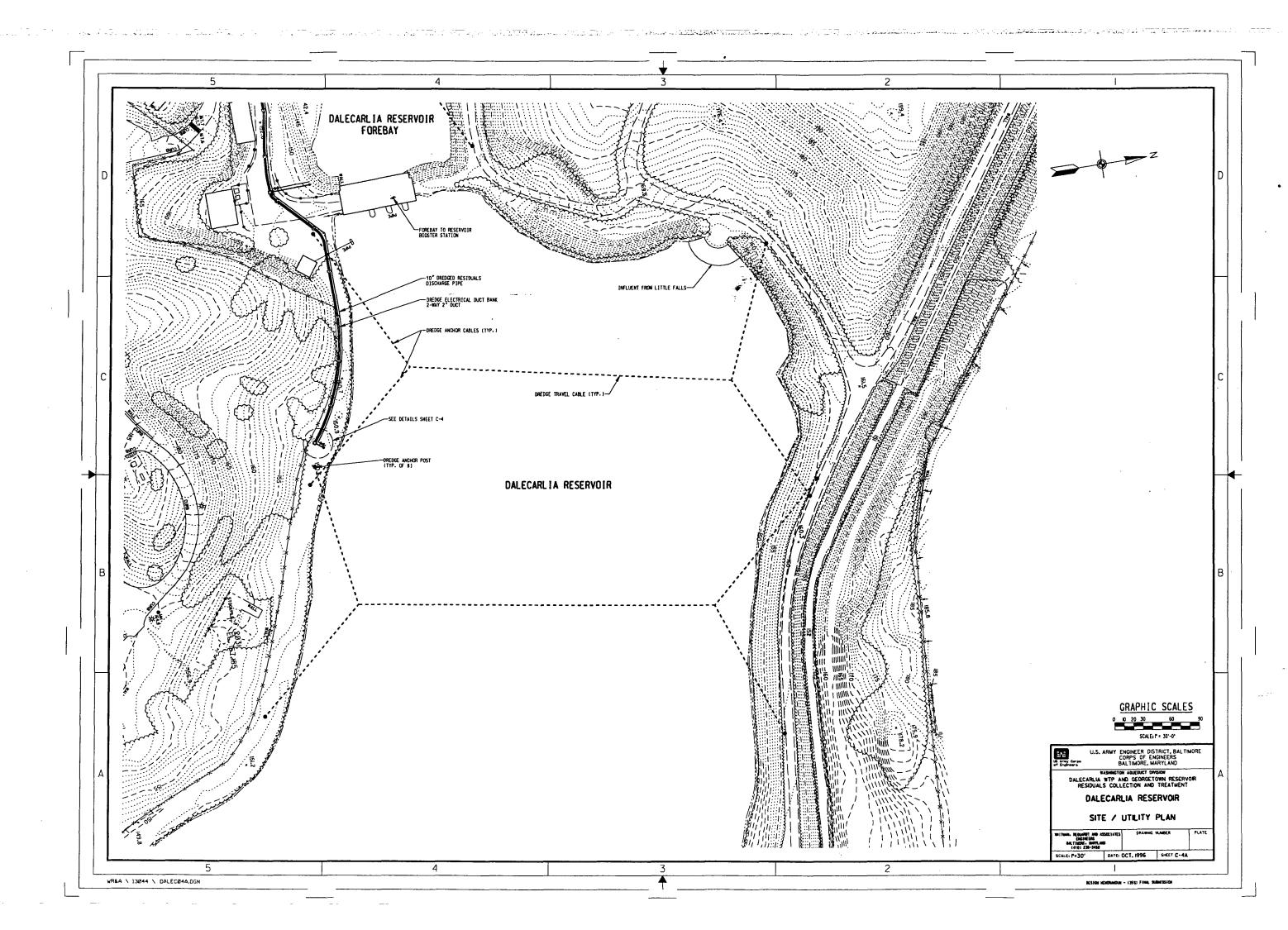
4 MECHANICAL General Notes and Legend Liquid Process Flow Schematic Solids Process Flow Schematic Design Memorandum - Vicinity and Location Maps Ğ-2 Design Memorandum - Drawing Index Future Recycle Treatment Facility - Plate Settling Process Schematic NOT USED Dewatering Facility - Site Plan
Dewatering Site - Utility Plan
Sedimentation Basin Residuals Pumping Station - Site / Utility Plan Dewatering Facilities - Hydraulic Profiles Future Recycle Treatment Facility - Hydraulic Profiles, Plan and Section M-6 M-7 M-8 M-9 C-2 Sedimentation Basin Residuals Fumping Station - Site / Utilib Dalecarlia Forebay - Site / Utility Plan Dalecarlia Reservoir - Site / Utility Plan Sediment Basin Area to Dewatering Area - Utility Plan Dewatering Site to Dalecarlia Forebay - Utility Plan Georgetown Reservoir - Site and Utility Plan Georgetown Reservoir - Site Grading Plan and Sections Georgetown Conduit Residuals FM - Plan / Sections / Details NOT USED NUI USED
Datecartia WTP - Existing Waste Streams Schematic
Datecartia WTP - Proposed Waste Streams Diversion Schematic
Residuals Thickening Polymer System - Process Schematics
Dewatering Polymer System - Process Schematic Dewarering Polymer System - Process Schematic
Sedimentation Basin No. 1 and No. 2 - Solids Removal Equipment Plan
Sedimentation Basin No. 1 and No. 2 - Plans Sections and Details
Sedimentation Basin No. 3 and No. 4 - Residuals Collection Equipment Lower Level Plan
Sedimentation Basin No. 3 and No. 4 - Residuals Collection Equipment Lower Level Plan
Sedimentation Basin No. 3 and No. 4 - Partial Plans, Sections and Details
Sedimentation Basin No. 3 and No. 4 - Partial Plans, Sections and Details
Sedimentation Basin No. 3 and No. 4 - Partial Plans, Sections and Details Profiles - Forcemains - Utility Profiles Profiles - Forcemains - Utility Profiles Dalecarlia Forebay, Tunnel and Dewatering Facility Areas – Boring Location Plan Georgetown Reservoir Area and Sedimentation Basin Area – Boring Location Plan Dalecarlia Waste Streams Modifications – Chemical Building C-14 C-15 Sedimentation Basin No. 3 and No. 4 - Partial Plans. Sections and Details Sedimentation Basin Residuals Pumping Station - Plans and Section Sedimentation Basin Residuals Pumping Station - Plans and Section Georgetown Reservoir Equalization Basin-Pumping Station - Plans and Sections Georgetown Reservoir Equalization Basin Pumping Station - Plans and Sections Dalecarlia Foreboy Equalization Basin Pumping Station - Plans and Sections Gravity Thickener - Plans. Section and Details
Thickened Residuals Pumping Station - Plans and Sections
Thickened Residuals Pumping Station - Plans and Sections
Thickened Residuals Pumping Station - Plans
Dewatering Facility - Lower Level Plan Dalecarlia Waste Streams Modifications - Finished Water Pumping Station Plans Dalecarlia Waste Streams Modifications - 30 M.G. Clearwell Dalecarlia Waste Streams Modifications - Plant Drain P.S.; C-16 Sedimentation Basins Valve Chamber Dalecarlia Waste Streams Modifications - Water Quality Inlet Plans. C-18 M-25 Profiles and Details: Ex. Junction Chamber No. 1 ARCHITECTURAL ECTURAL

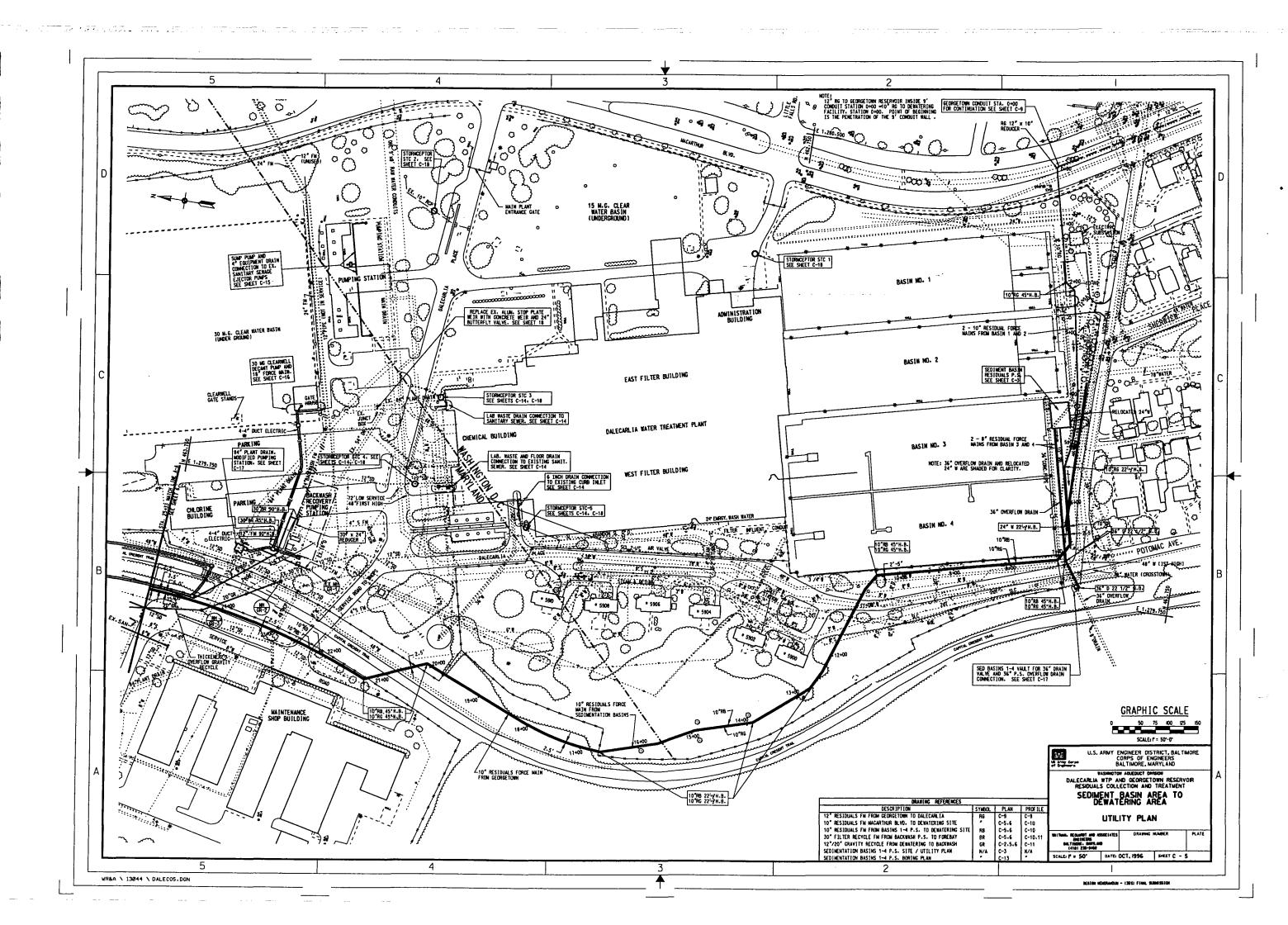
Sedimentation Basin Residuals Pumping Station — Plans and Sections
Dewatering Facility — Lower Level Plan
Dewatering Facility — First Floor Plan
Dewatering Facility — Second Floor Plan
Dewatering Facility — Third Floor Plan
Dewatering Facility — Reflected Ceiling Plan
Dewatering Facility — Roof Plan
Dewatering Facility — Roof Plan
Dewatering Facility — Longitudinal Section
Dewatering Facility — North Elevation
Dewatering Facility — South Elevation
Dewatering Facility — South Elevation Dewatering Facility - Lower Level Plan Dewatering Facility - First Floor Plan Dewatering Facility - Second Floor Plan Dewatering Facility - Third Floor Plan Dewatering Facility - Section Dewatering Facility - HVAC Schematic A-4 A-5 A-6 A-7 A-8 A-9 INSTRUMENTATION SCADA System A-11 Dewatering Facility - South Elevation Dewatering Facility - West Elevation ELECTRICAL ICAL
Dewatering Facility - Single Line Diagram - Part A
Dewatering Facility - Single Line Diagram - Part A
Dewatering Facility - Single Line Diagram - Part B
Thickened Residuals Pumping Station - Single Line Diagram
Existing Substation Buildings - Sedimentation Basins - Single Line Diagram
Sedimentation Basin Residuals Pumping Station - Single Line Diagram
Dalecarlia Forebay Equalization Basin Pumping Station - Single Line Diagram
Georgetown Reservoir Equalization Basin Pumping Station - Single Line Diagram
Dalecarlia Waste Streams Modifications - Existing Backwash Recovery P.S. - Single Line Diagram Dewatering Facility - East Elevation
Thickened Residuals Pumping Station - Sections and Elevations
Thickened Residuals Pumping Station - Plans A-13 A-15 STRUCTURAL Structural Notes and Design Loads
Sedimentation Basin Residuals Pumping Station — Plans and Sections
Georgetown Equalization Basin Pumping Station — Pile and Base Slab Plans
Georgetown Equalization Basin Pumping Station — Top Plan
Georgetown Equalization Basin Pumping Station — Sections
Georgetown Equalization Basin Pumping Station — Sections
Georgetown Equalization Basin Pumping Station — Sections and Details
Dredge Transfer Structure — Plan and Sections
Dalecarlia Equalization Basin Pumping Station — Plans and Sections
Gravity Thickener — Pile Plan
Gravity Thickener — Grade Level Plan
Gravity Thickener — Sections
Thickened Residuals Pumping Station — Base Plan and Sections
Thickened Residuals Pumping Station — Base Plan and Section
Thickened Residuals Pumping Station — Sections and Details
Dewatering Facility — Pile Plan
Dewatering Facility — First Floor
Dewatering Facility — Second Floor
Dewatering Facility — Mezzanine Level
Dewatering Facility — Roof Plan Structural Notes and Design Loads S-18 S-19 S-20 S-21 Dewatering Facility - Roof Plan Dewatering Facility - Section A-A Dewatering Facility - Section B-B NOTE: FOR THE WEB RELEASE OF THIS DOCUMENT, THE FOLLOWING PAGES HAVE BEEN REMOVED BECAUSE THEY CONTAIN SPECIFIC DESIGN AND OPERATIONAL INFORMATION ABOUT EXISTING WATER TREATMENT PROCESSES OR FACILITIES: C-14, C-15, C-16, C-17, M-13, M-14, M-15, M-16, M-17, M-18, M-19, M-35, I-1, and E-4. U.S. ARMY ENGINEER DISTRICT, BALTIMORE CORPS OF ENGINEERS BALTIMORE, MARYLAND TON ADJEDUCT DATEON DALECARLIA WTP AND GEORGETOWN RESERVOR RESIDUALS COLLECTION AND TREATMENT DESIGN MEMORANDUM DRAWING INDEX DATE OCT. 1996 SHEET G-2 SCALE: NONE WR&A \ 13044 \ DALEGØZ.DGN BESTON HENDRANDUN - (35%) FINNL SUBMISSION

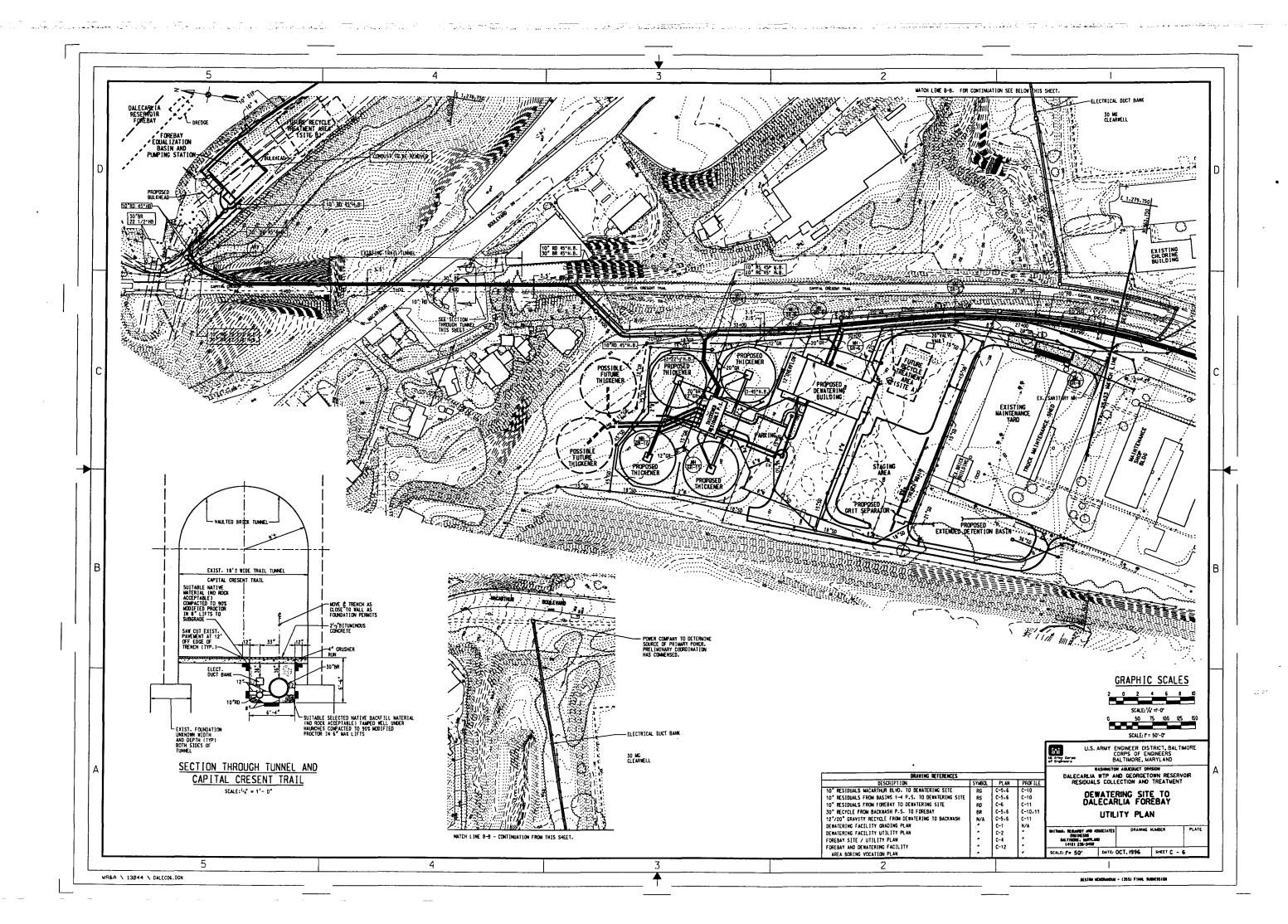


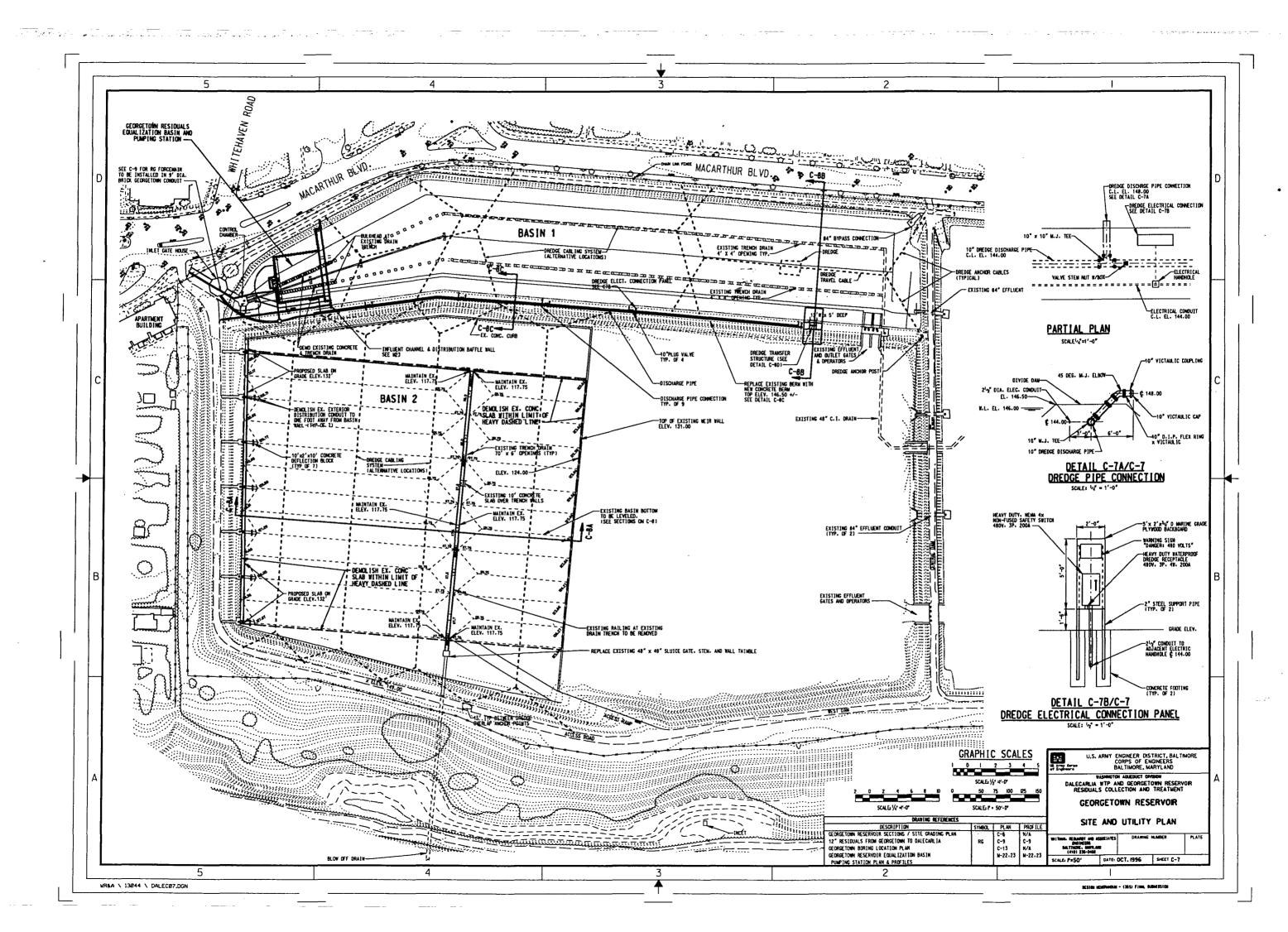


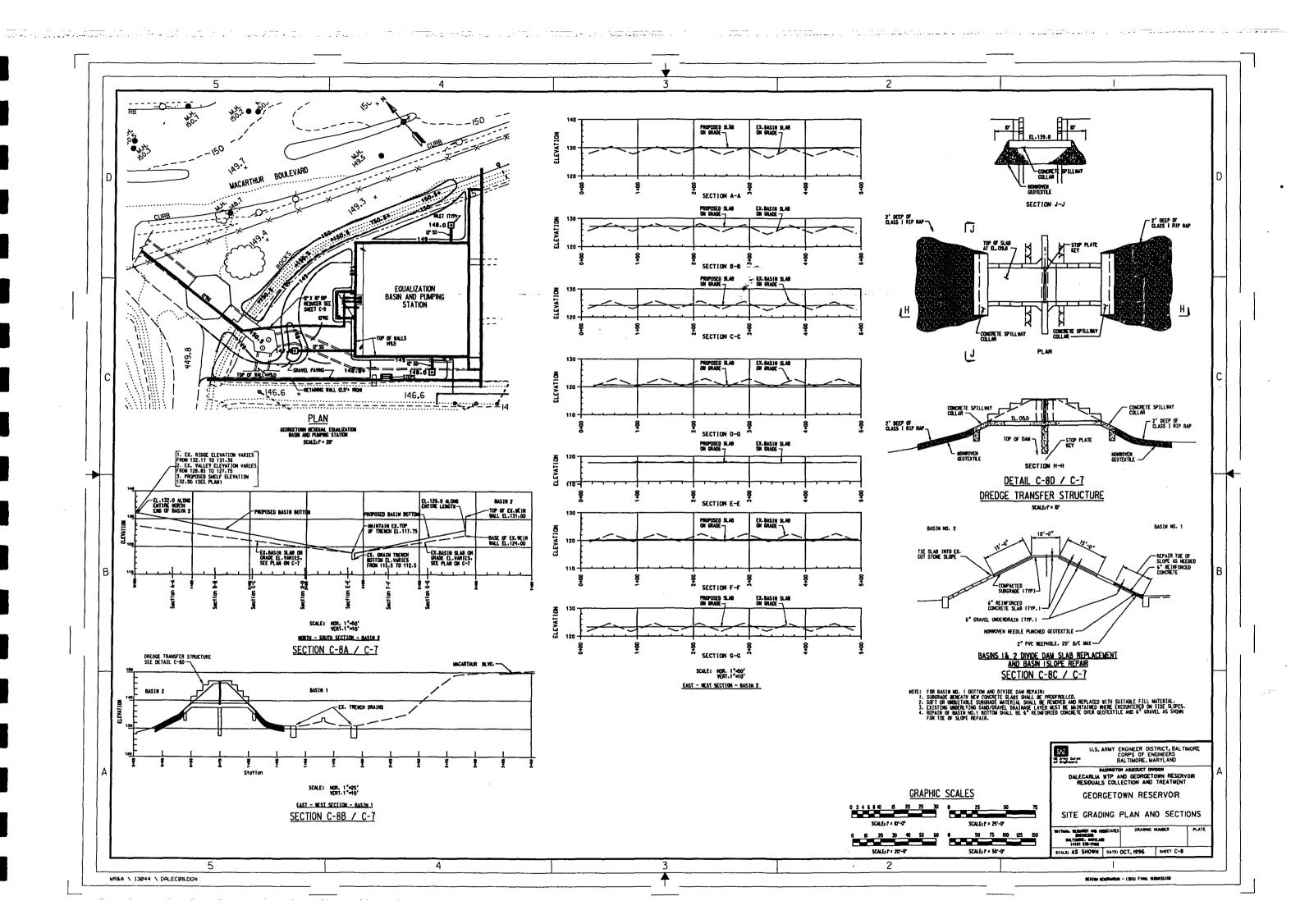


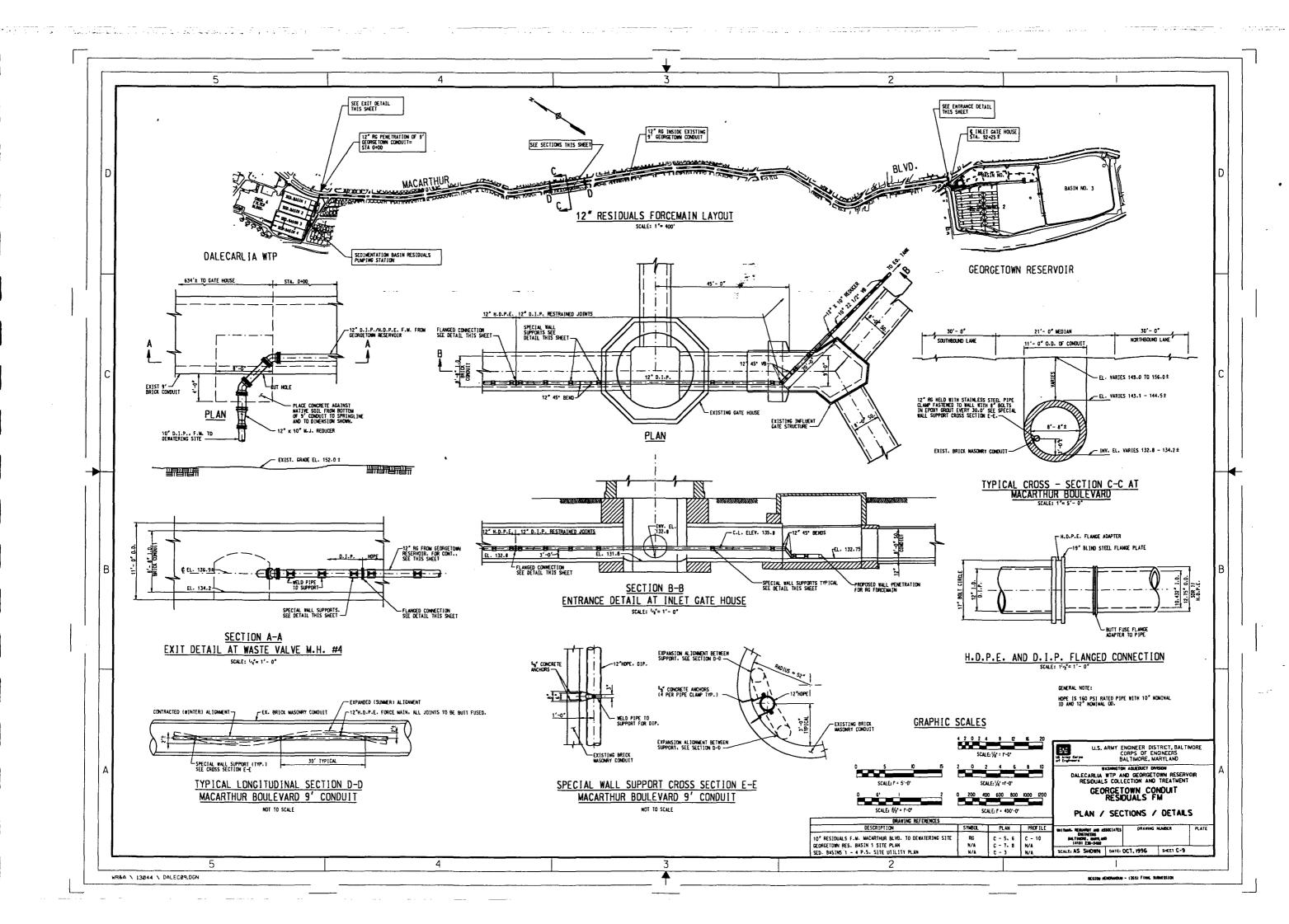


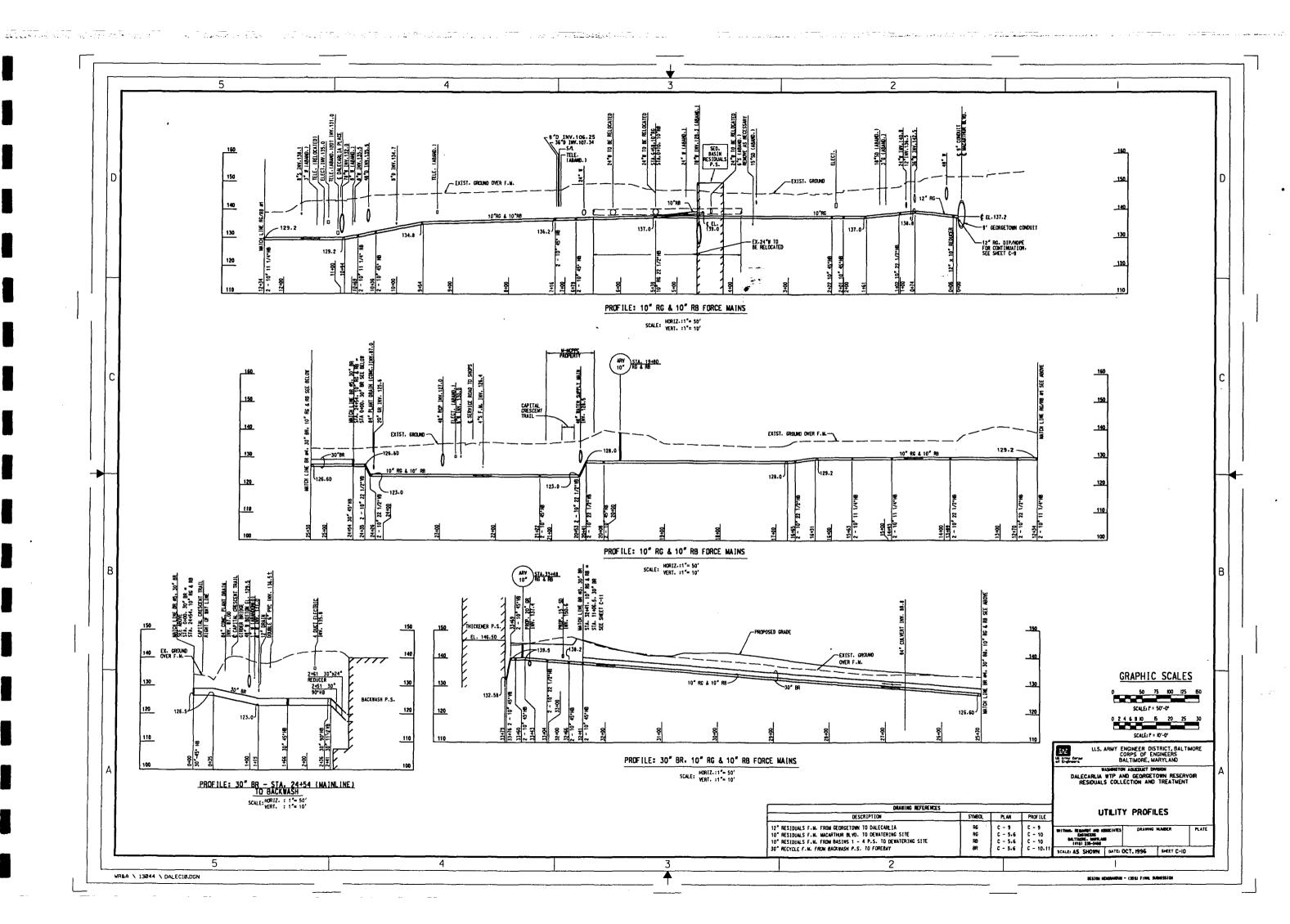


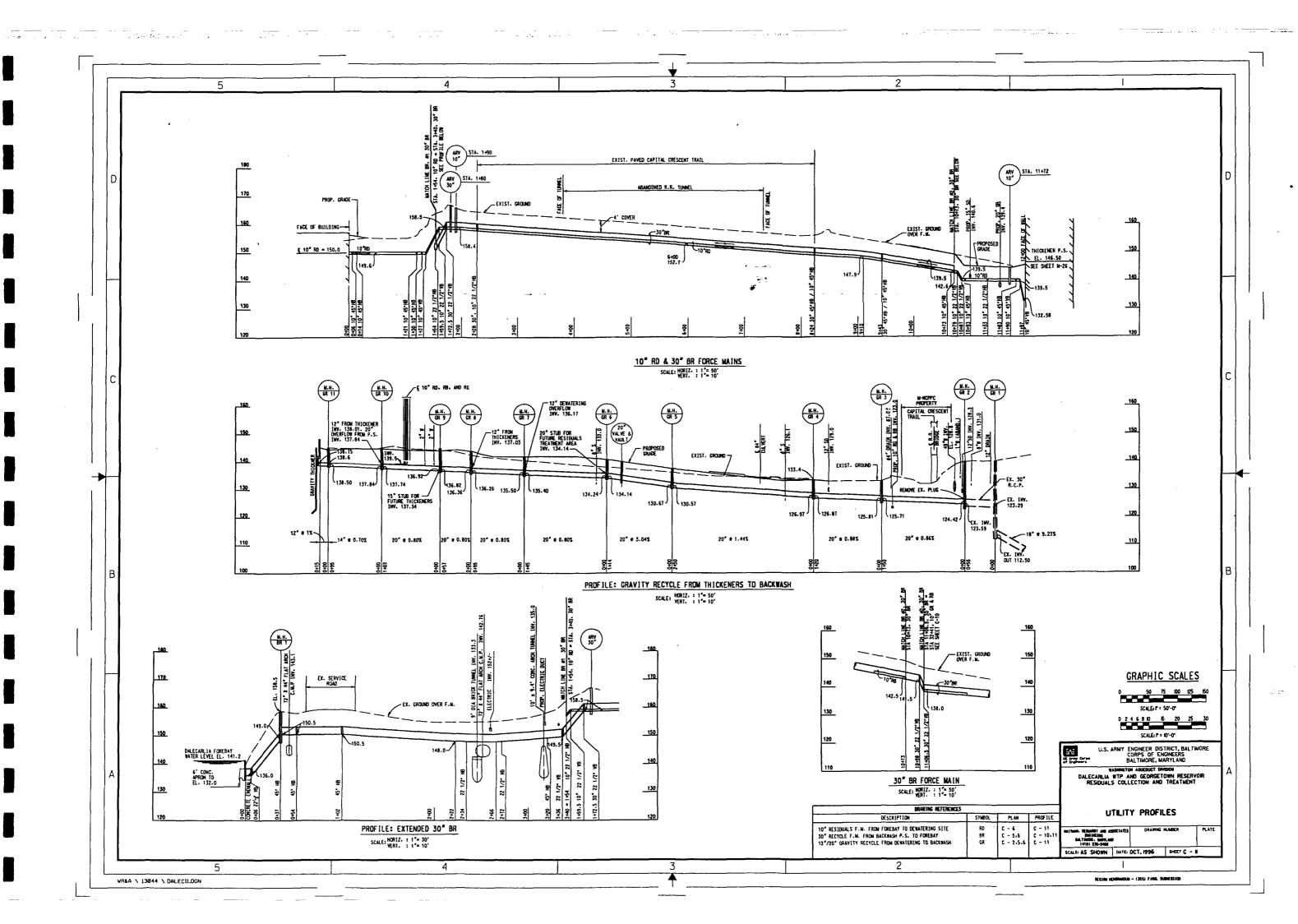


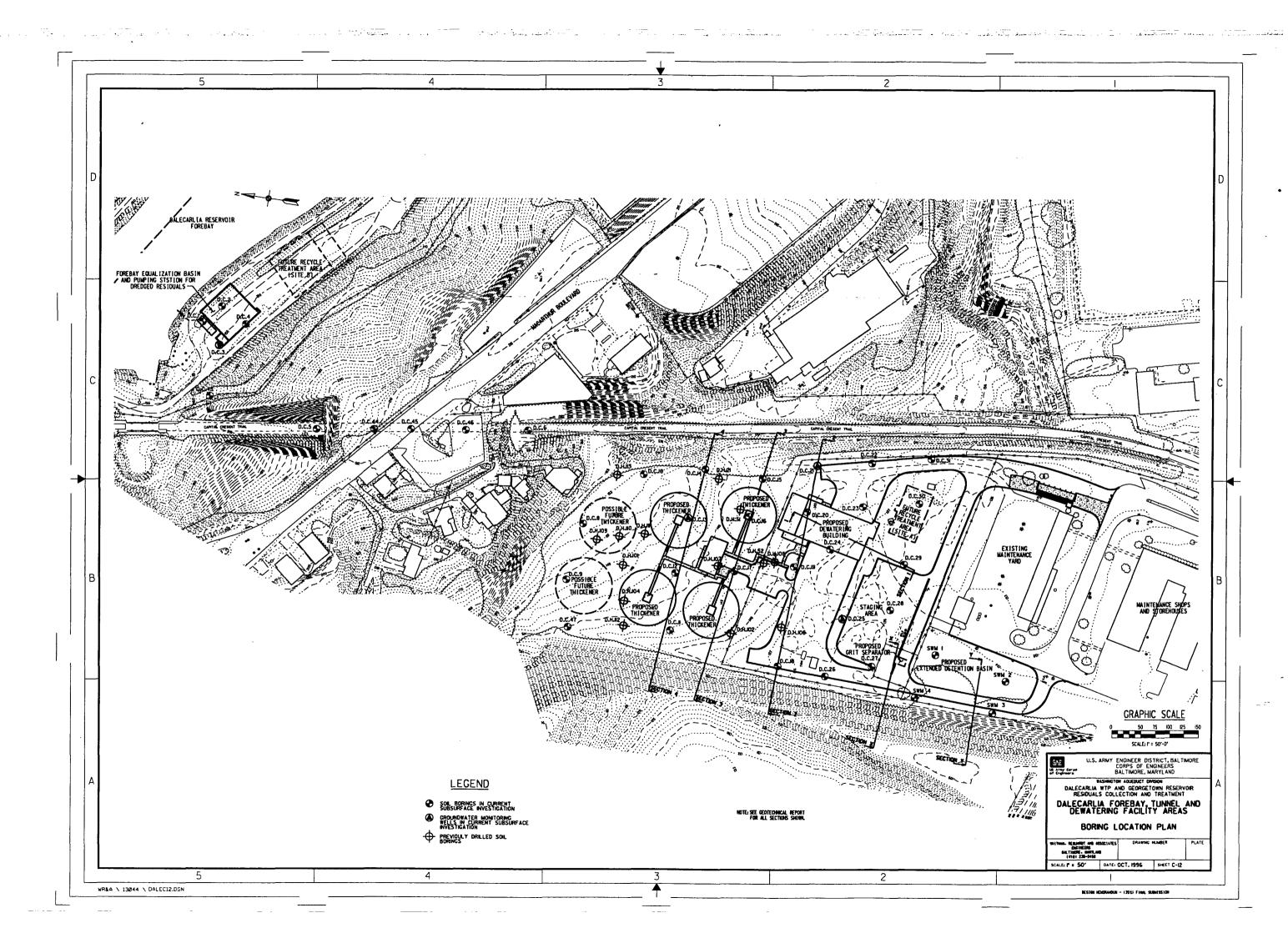


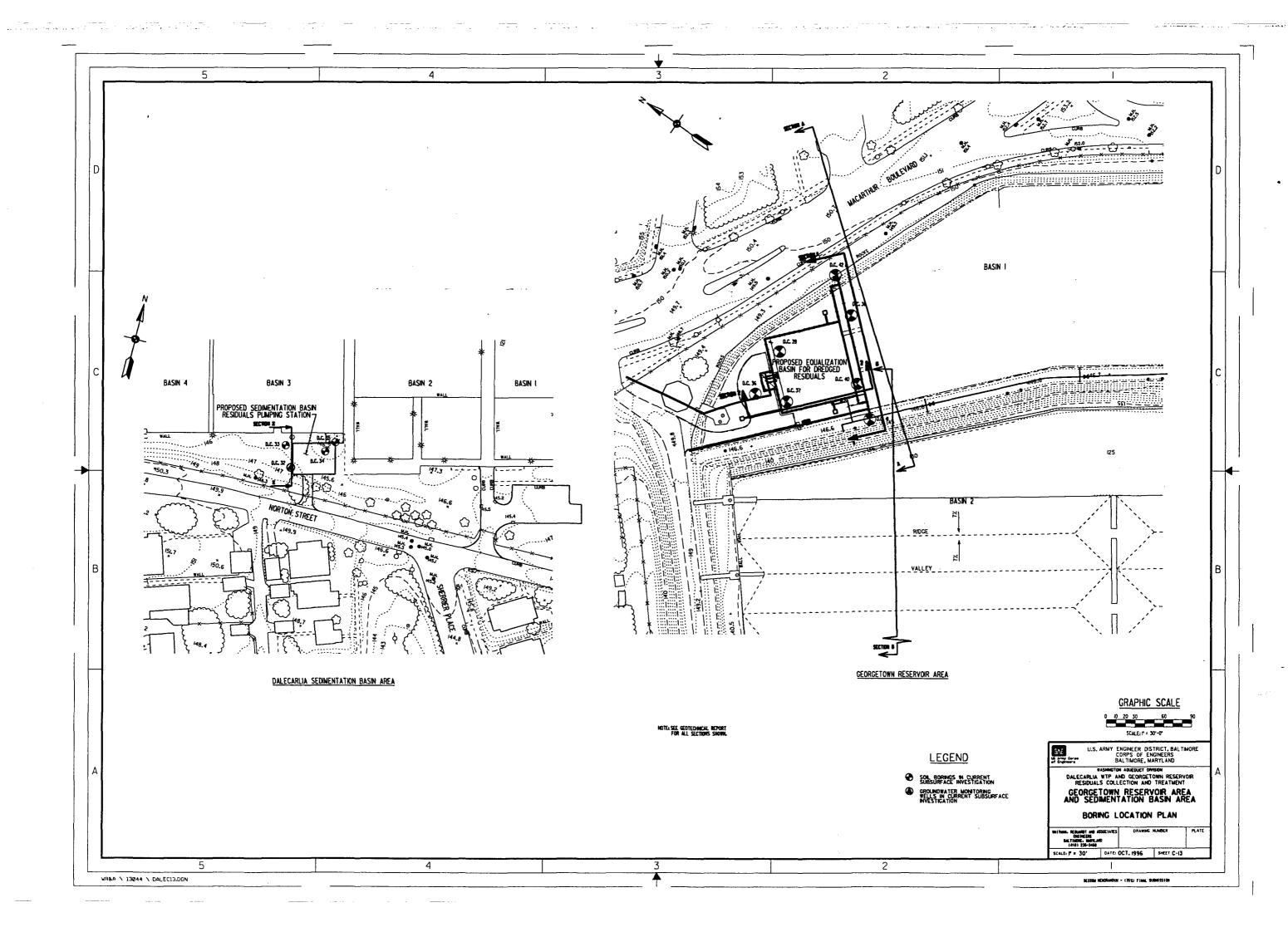


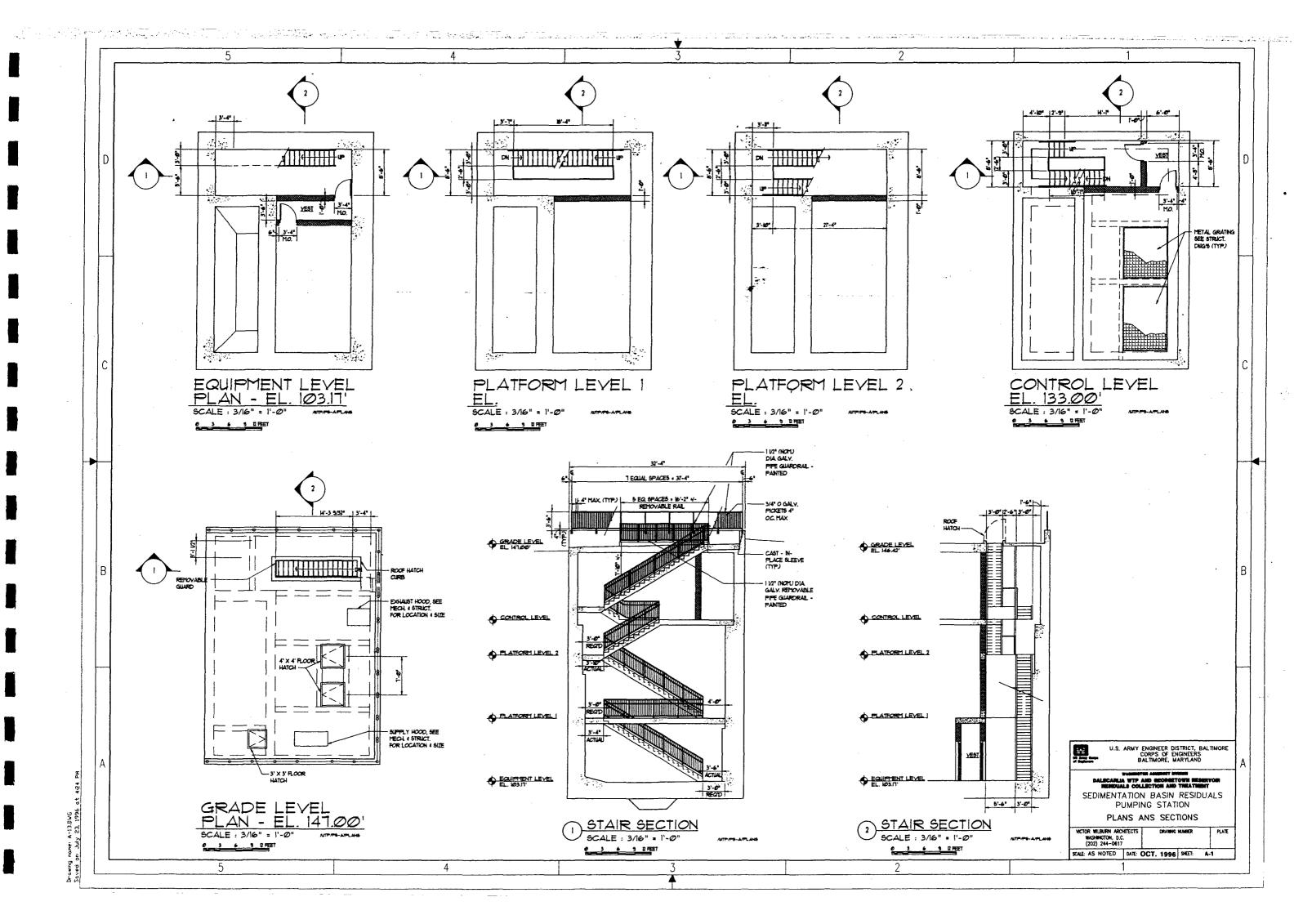


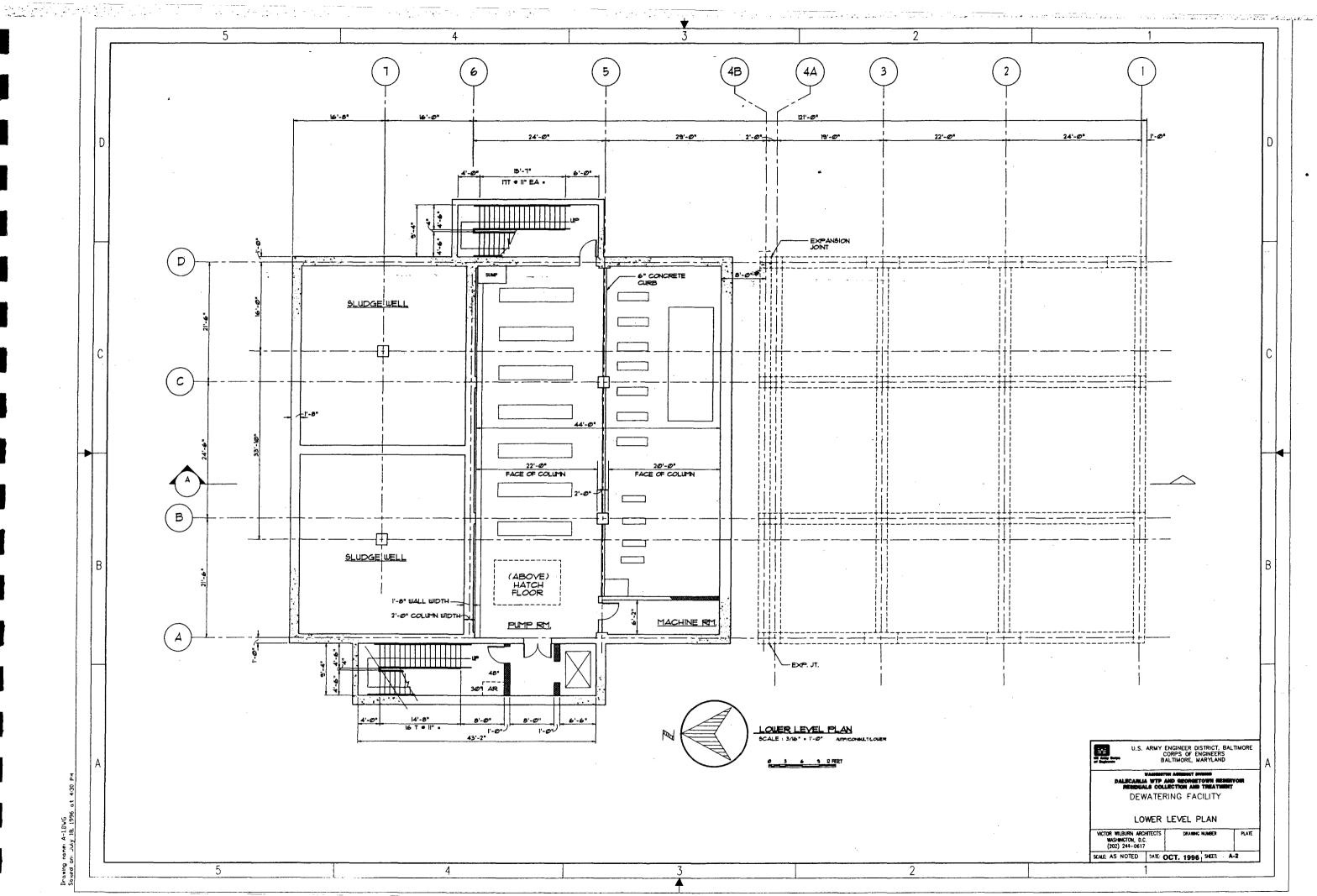


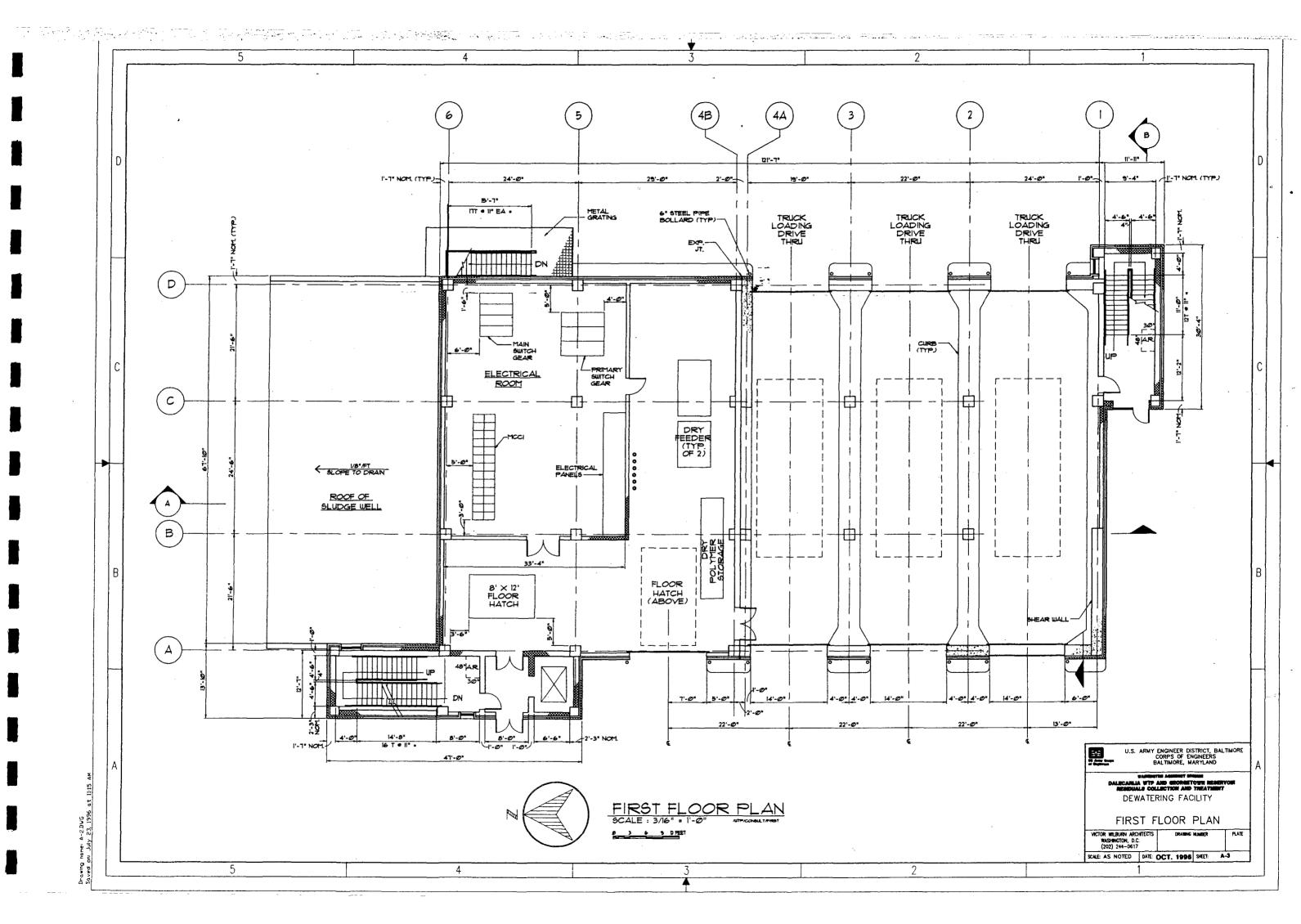


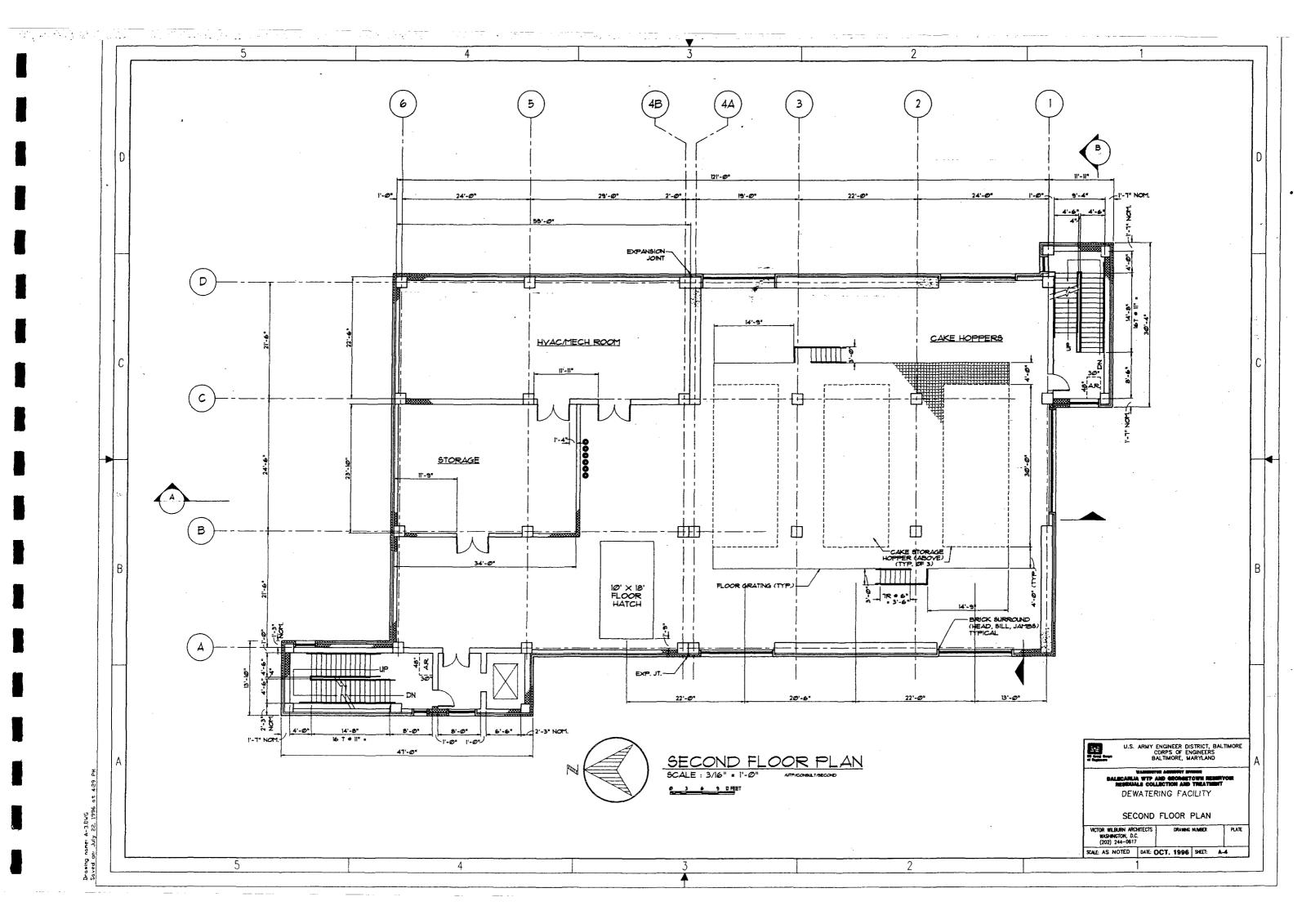


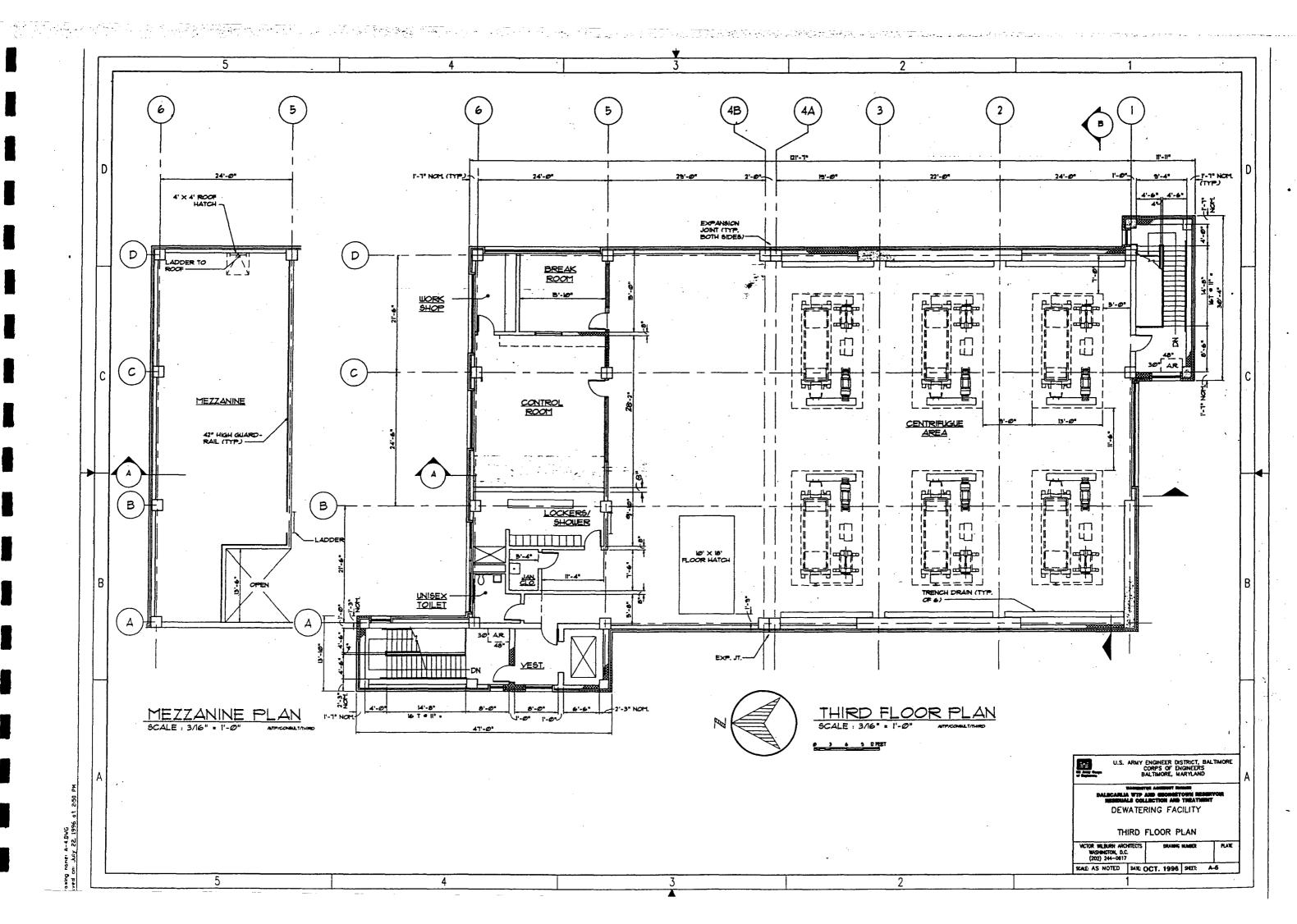


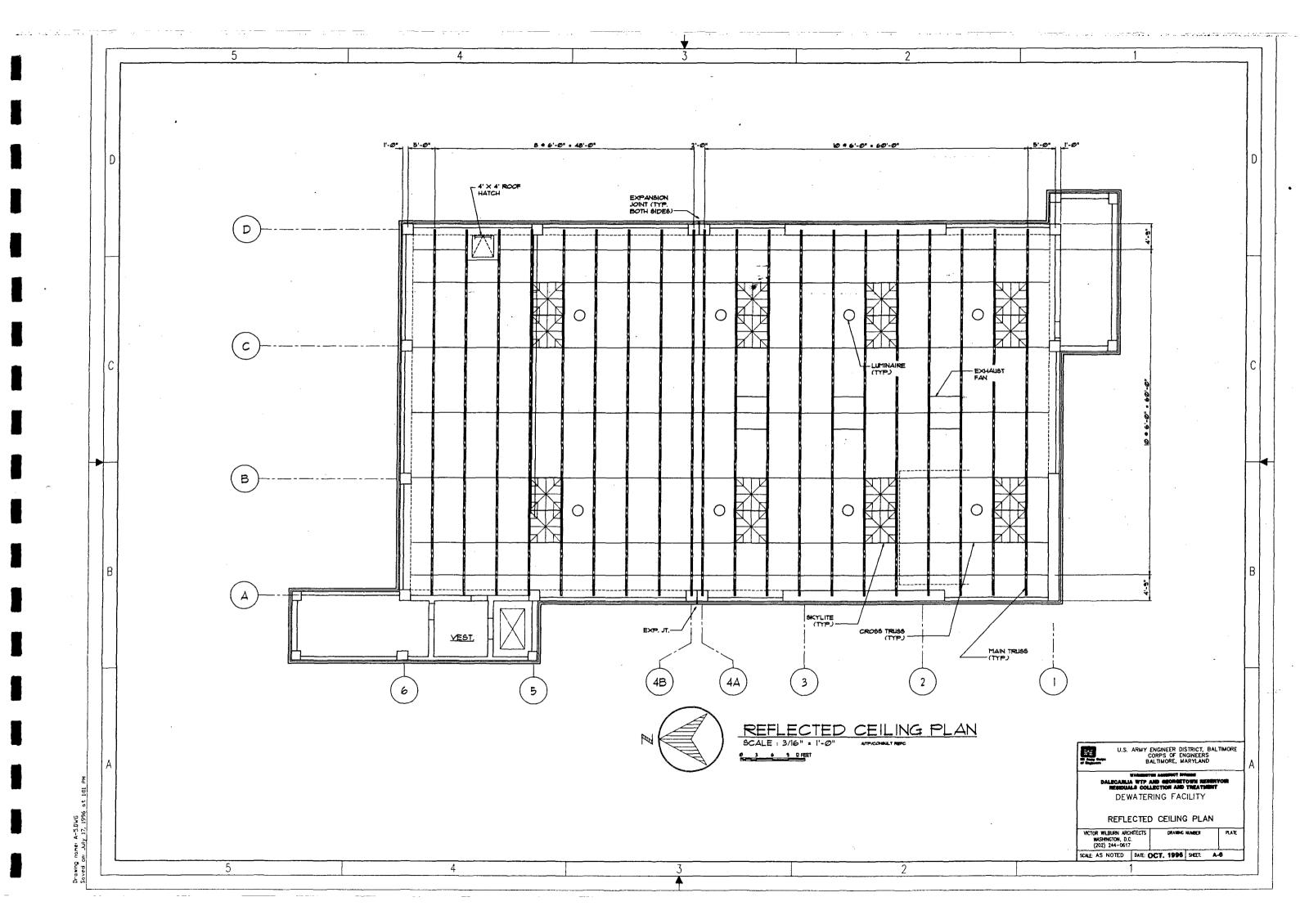


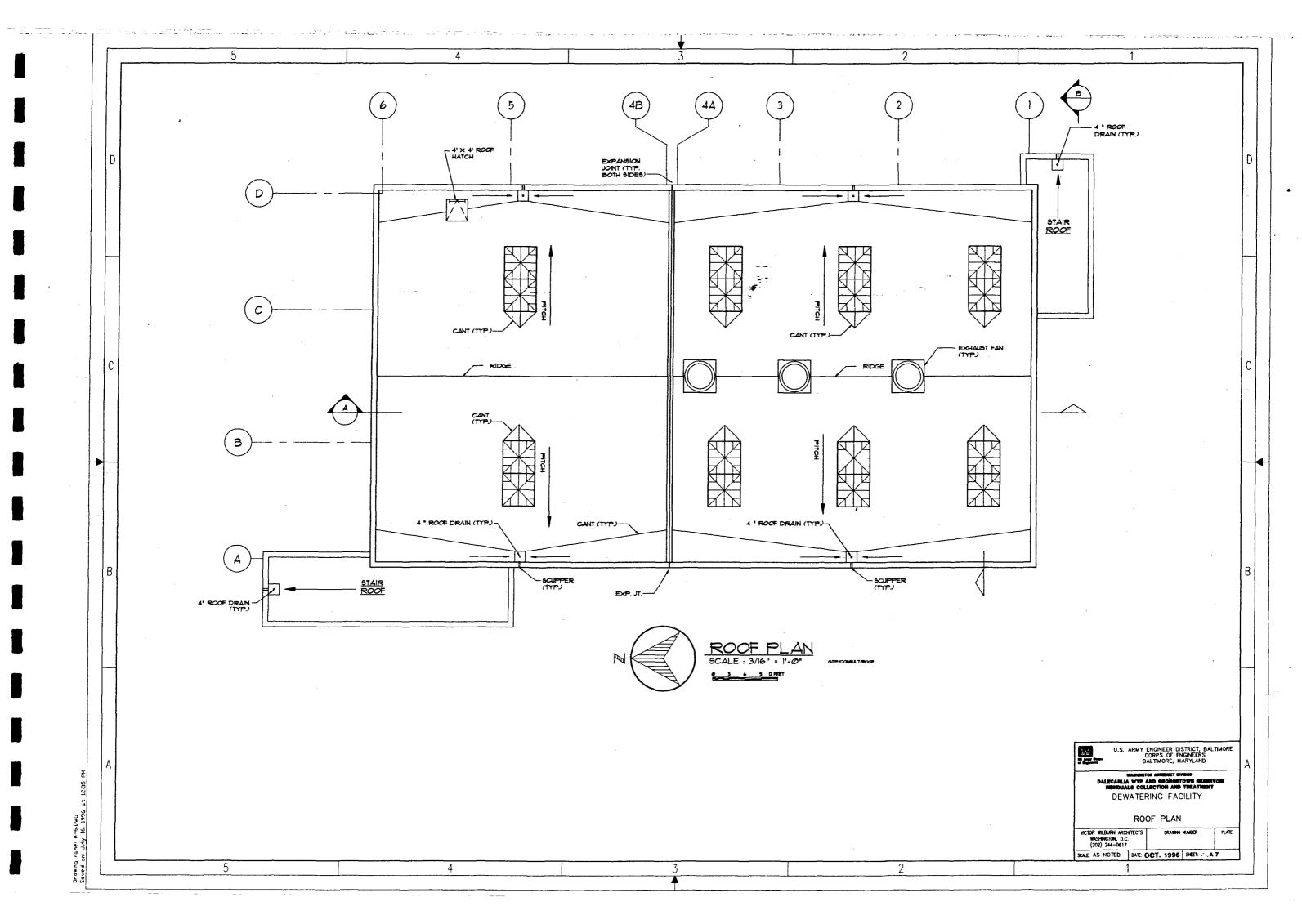


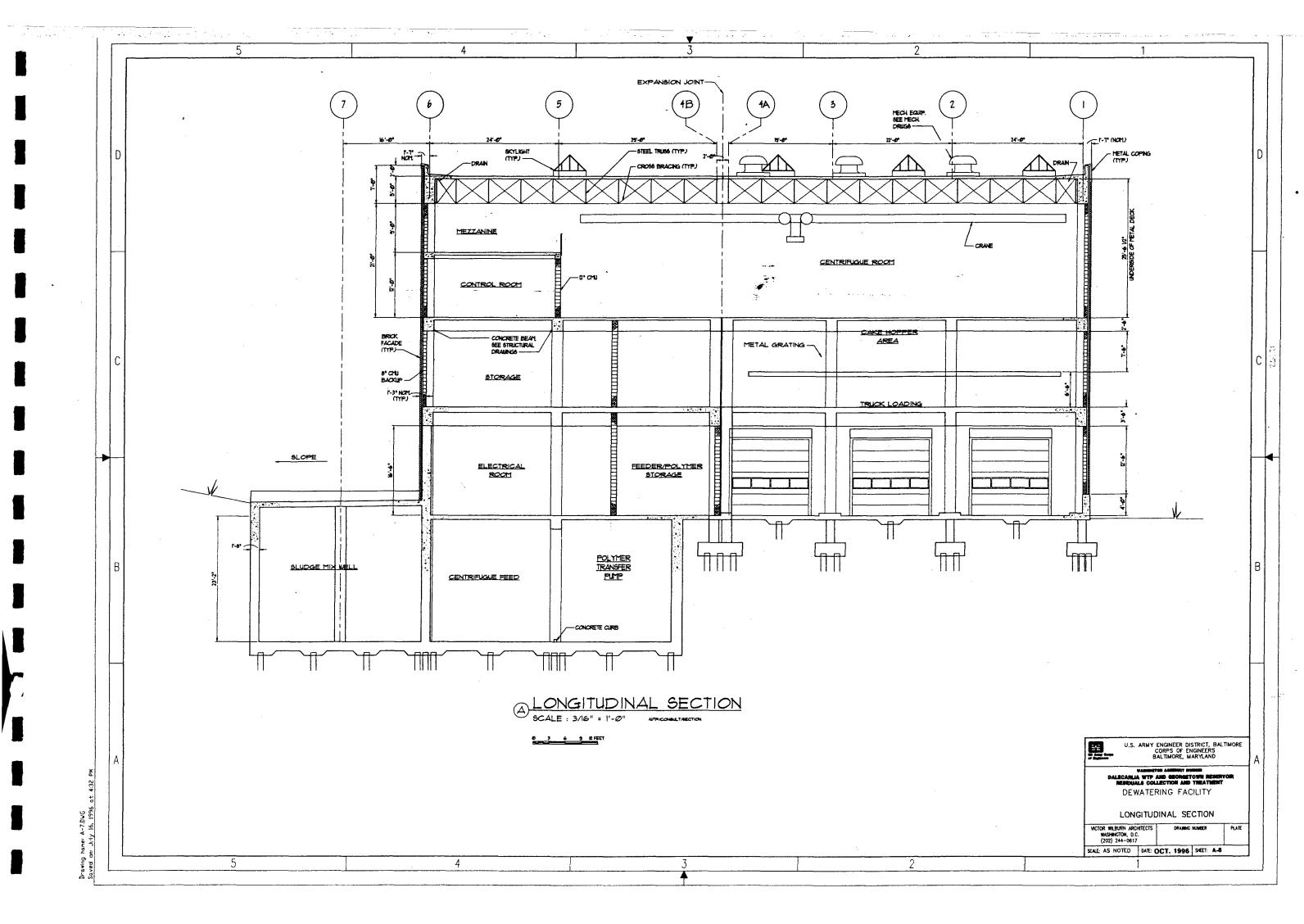


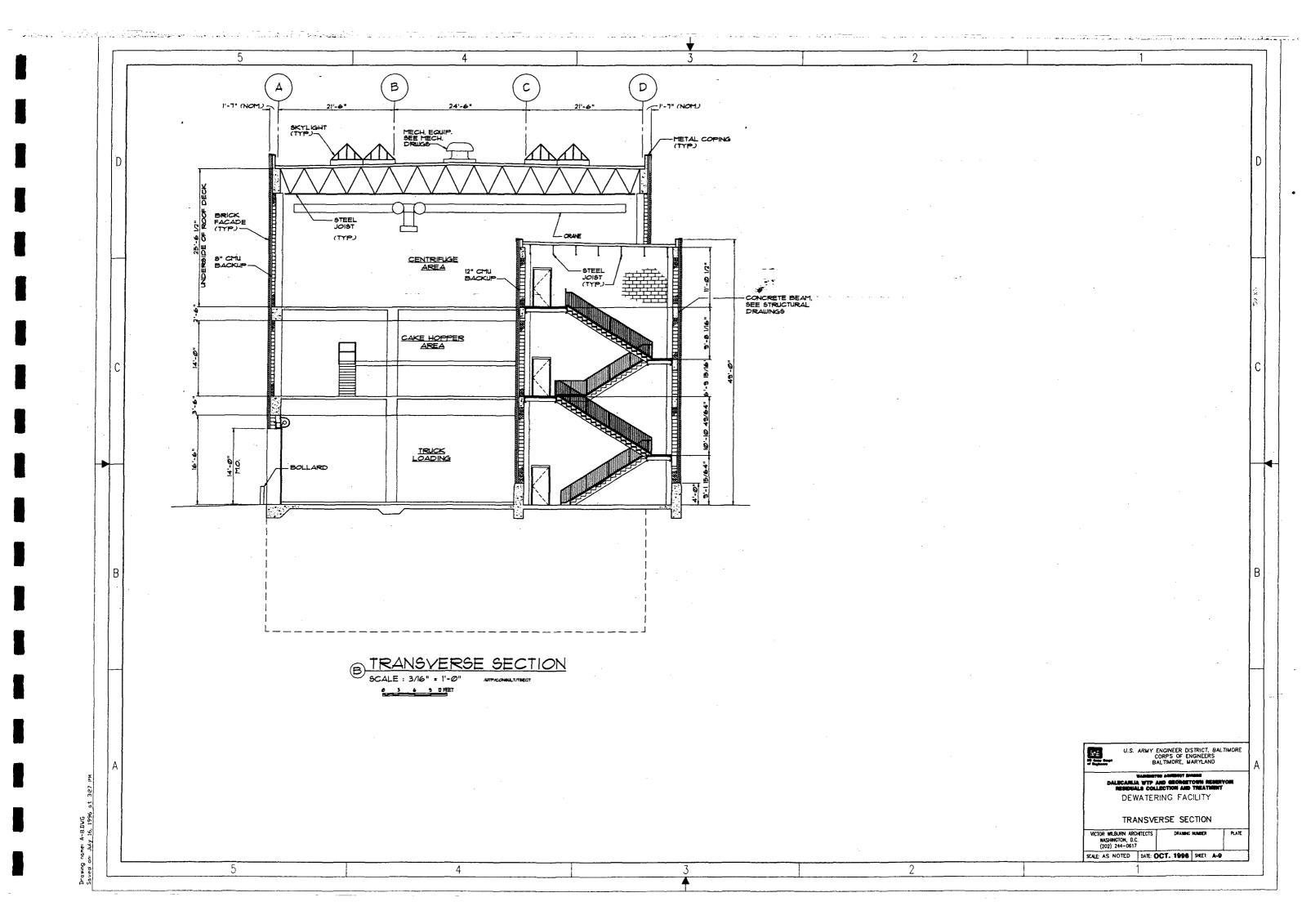


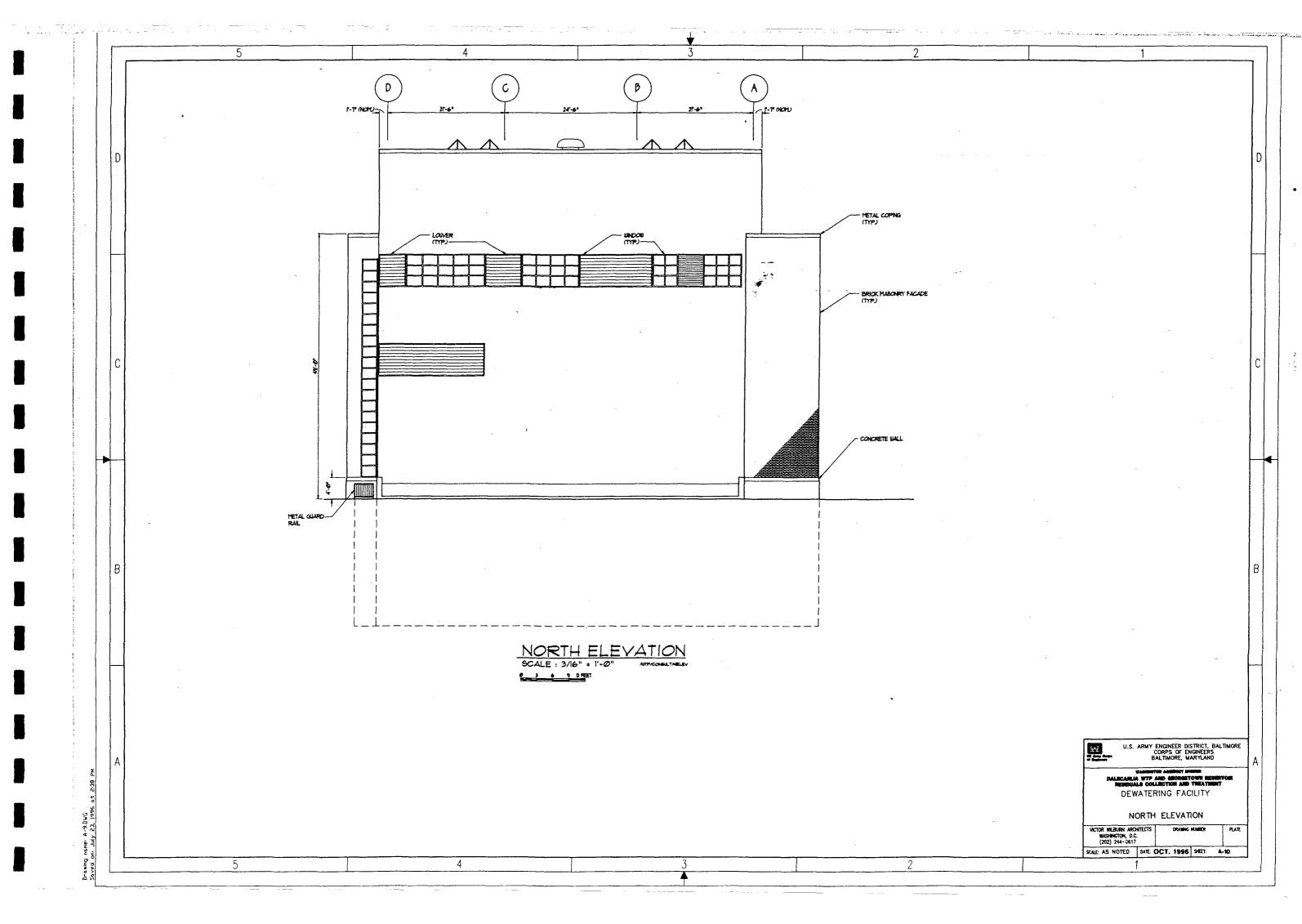


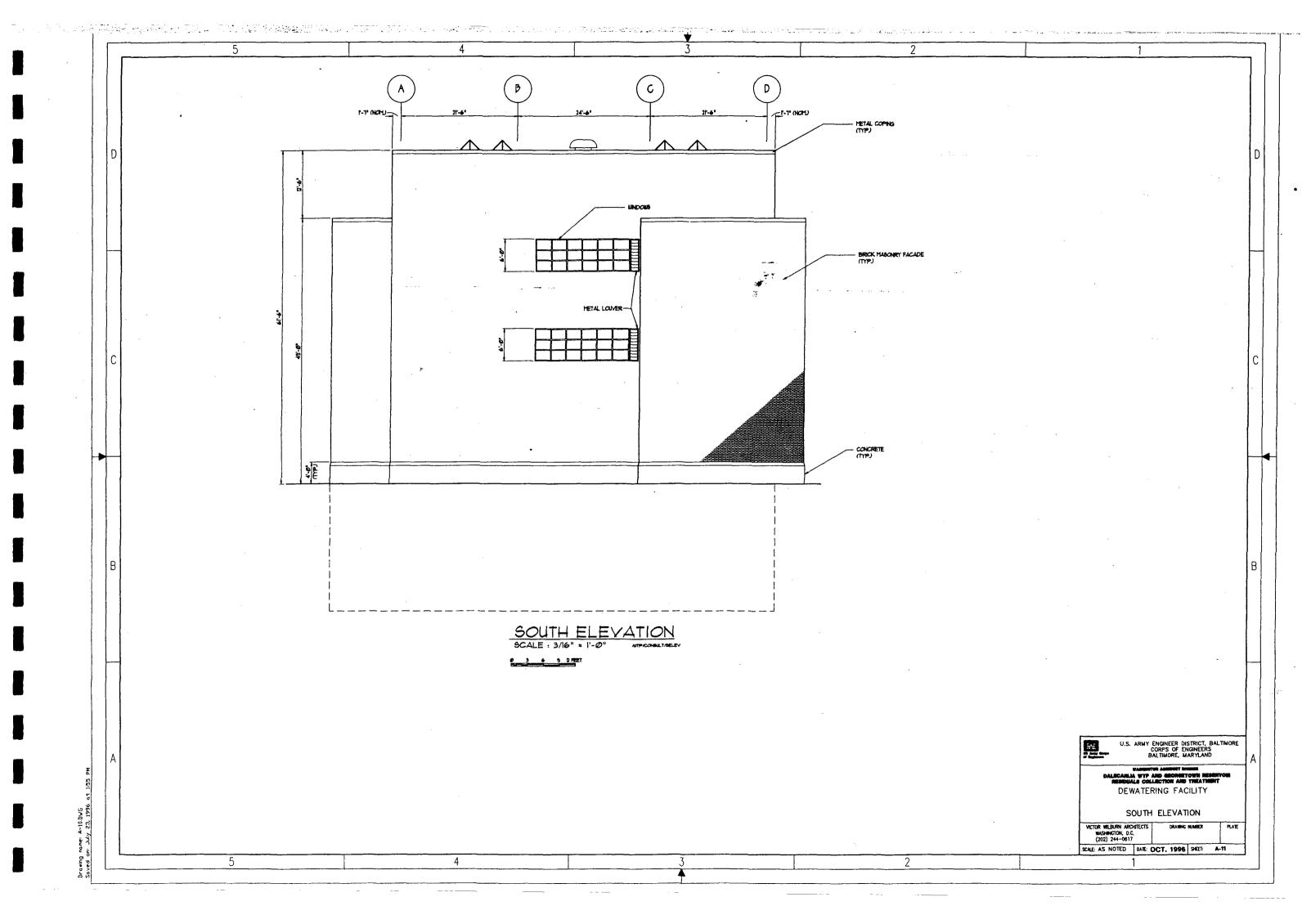


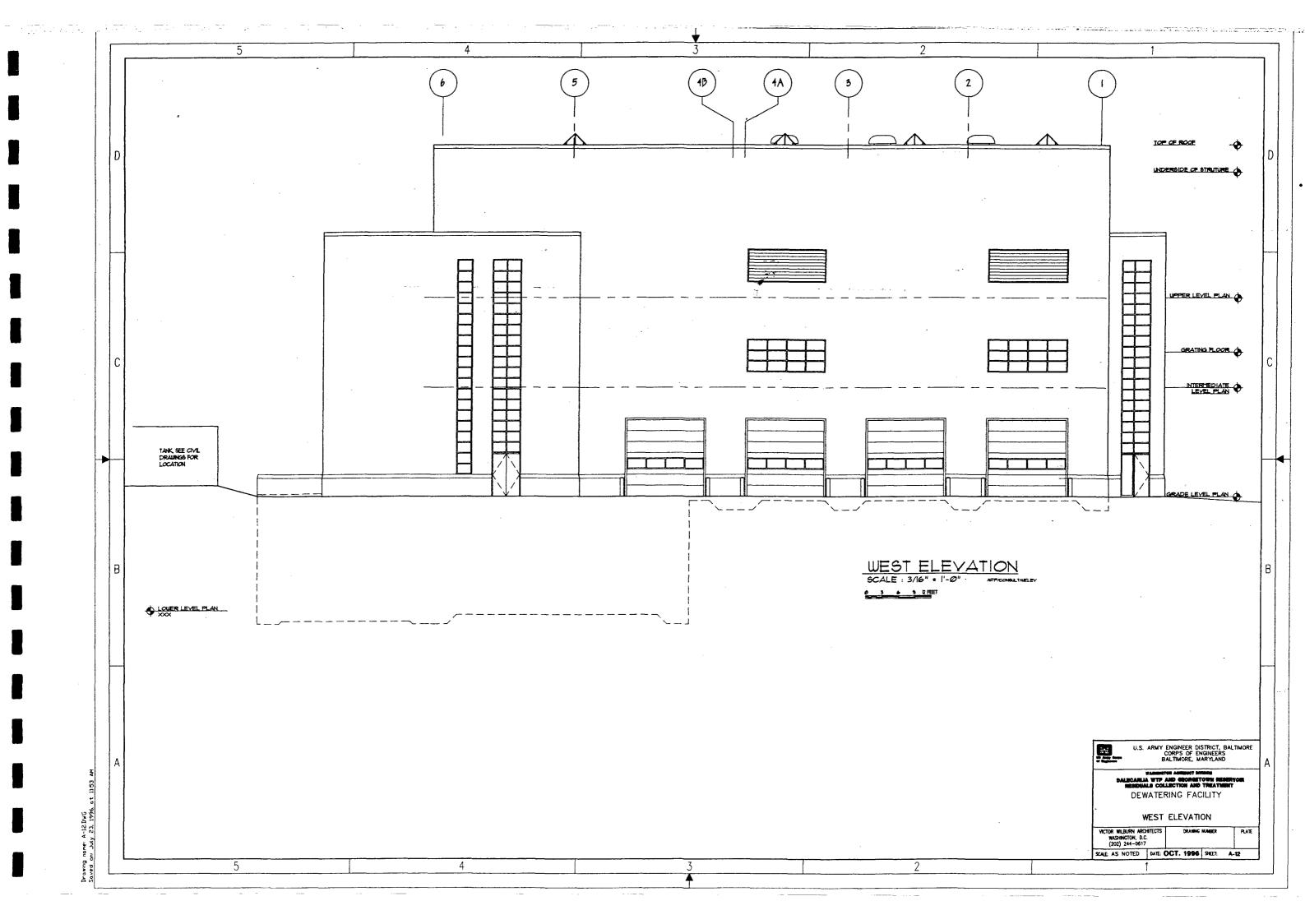


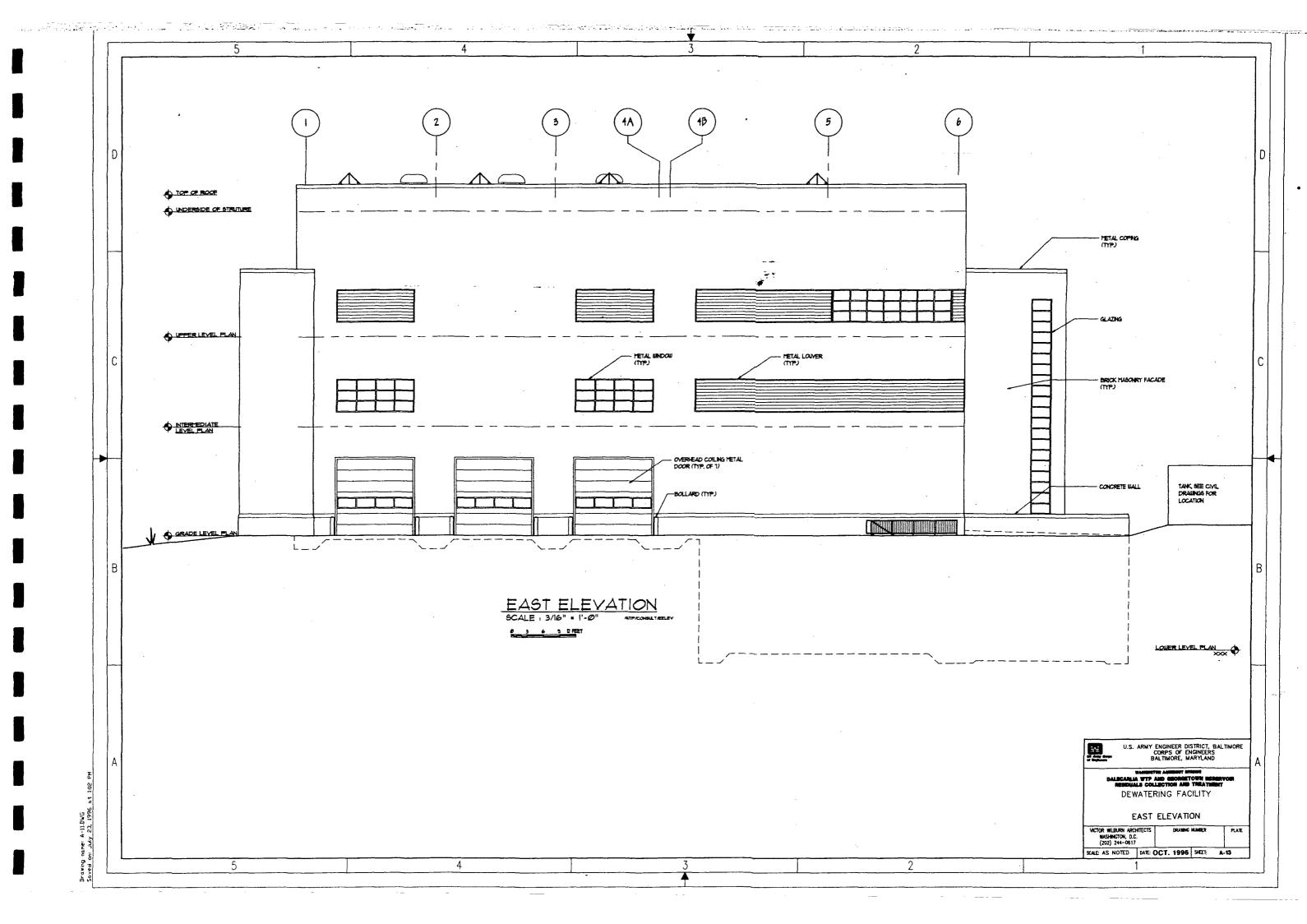


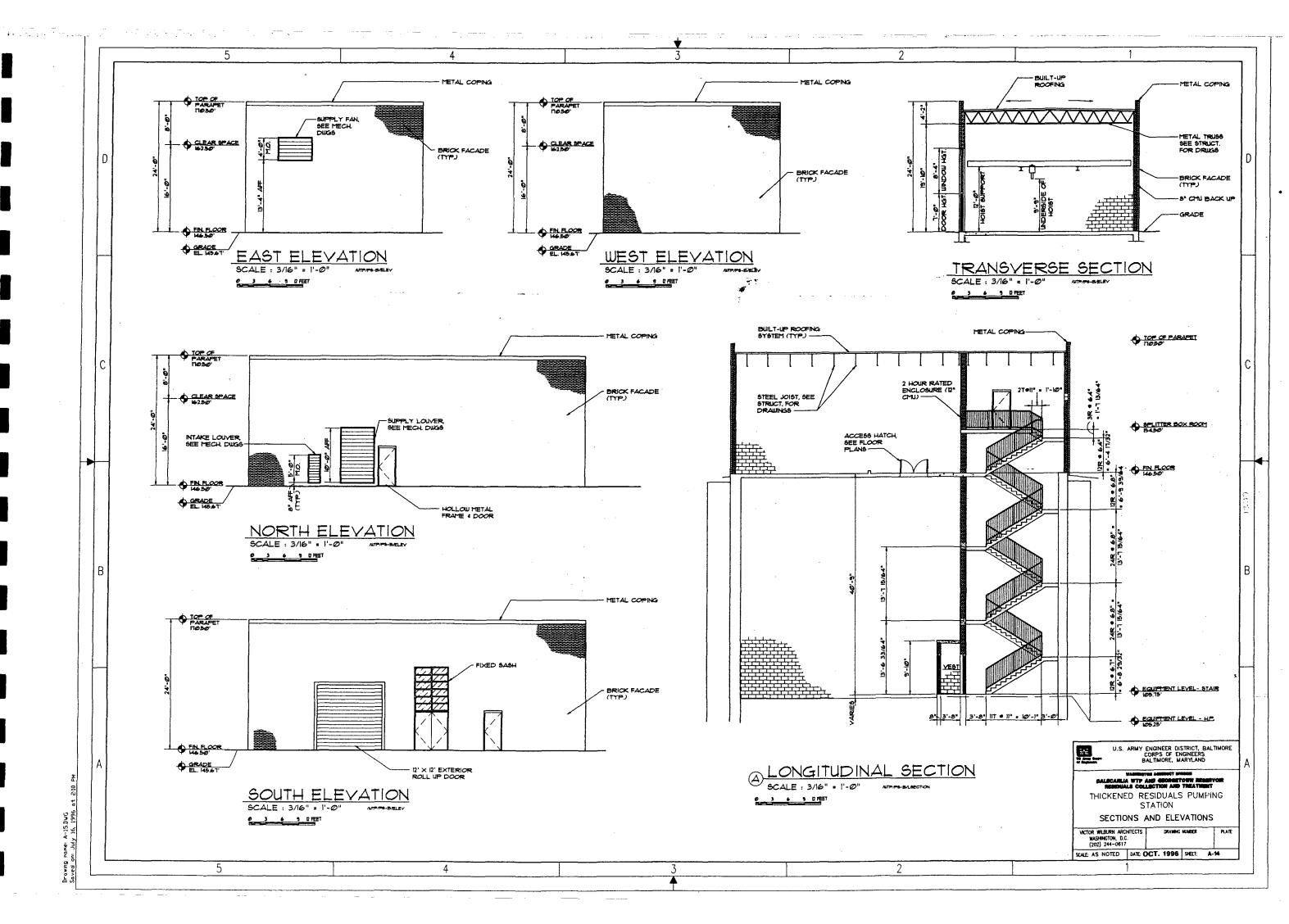


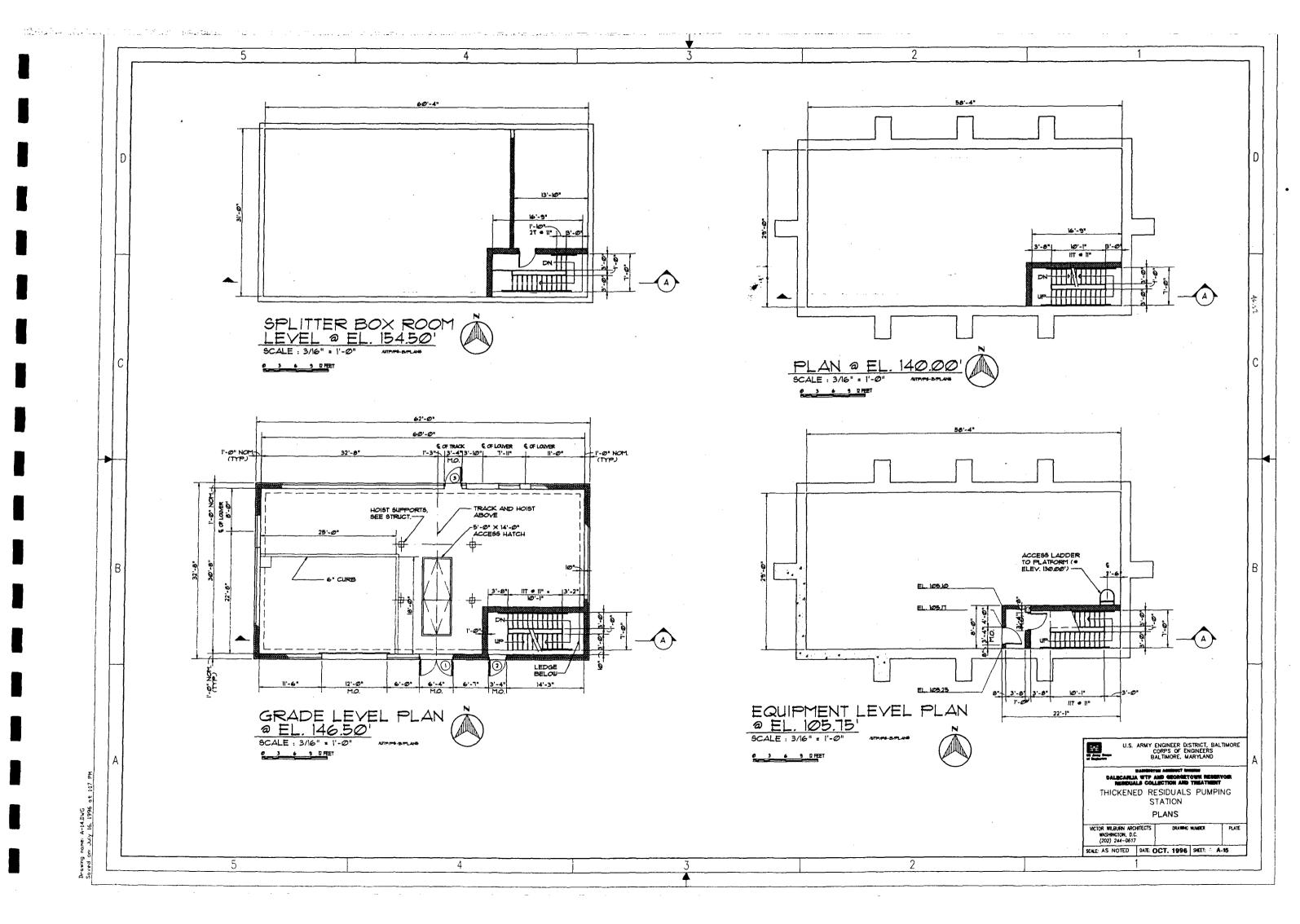


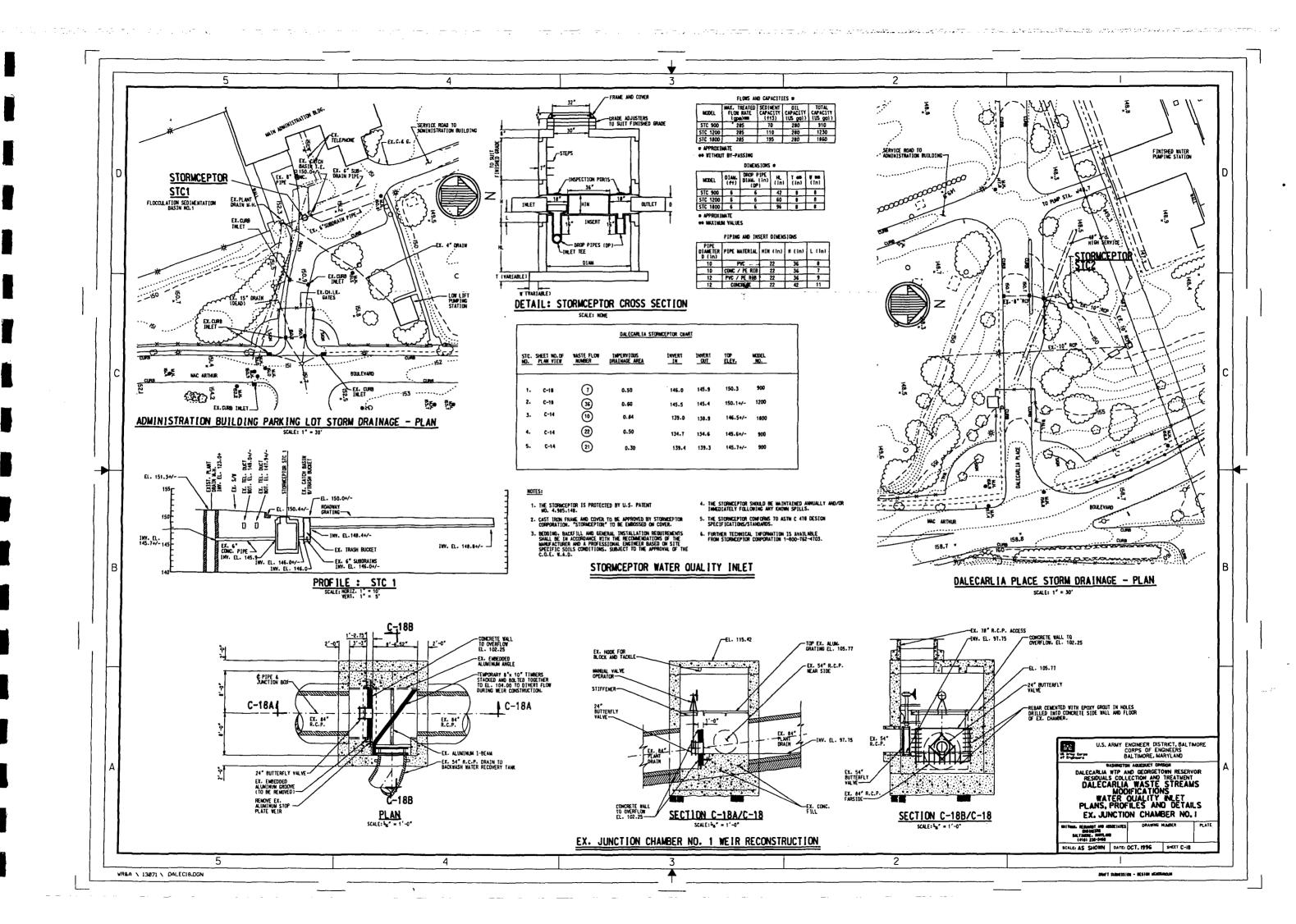


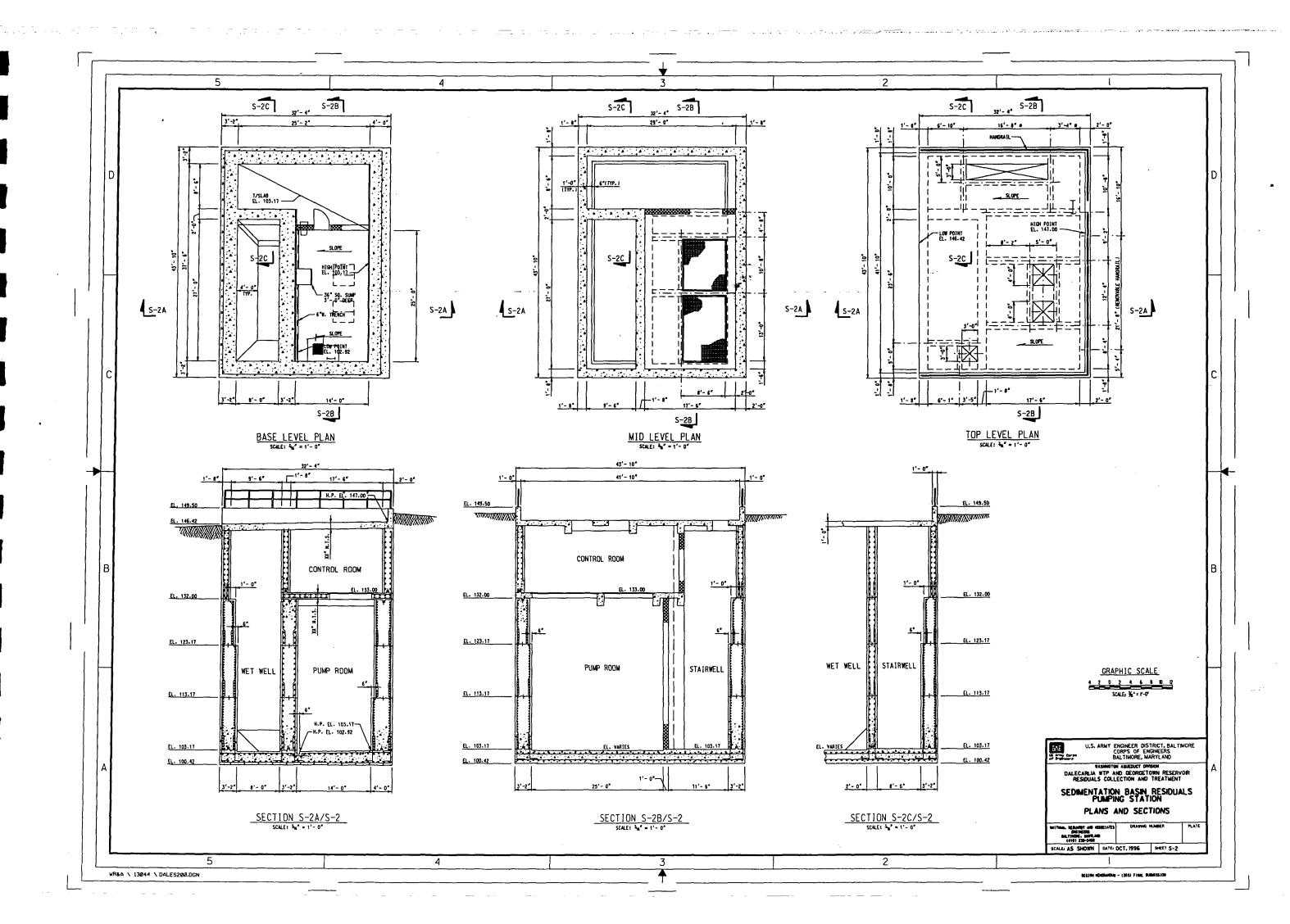


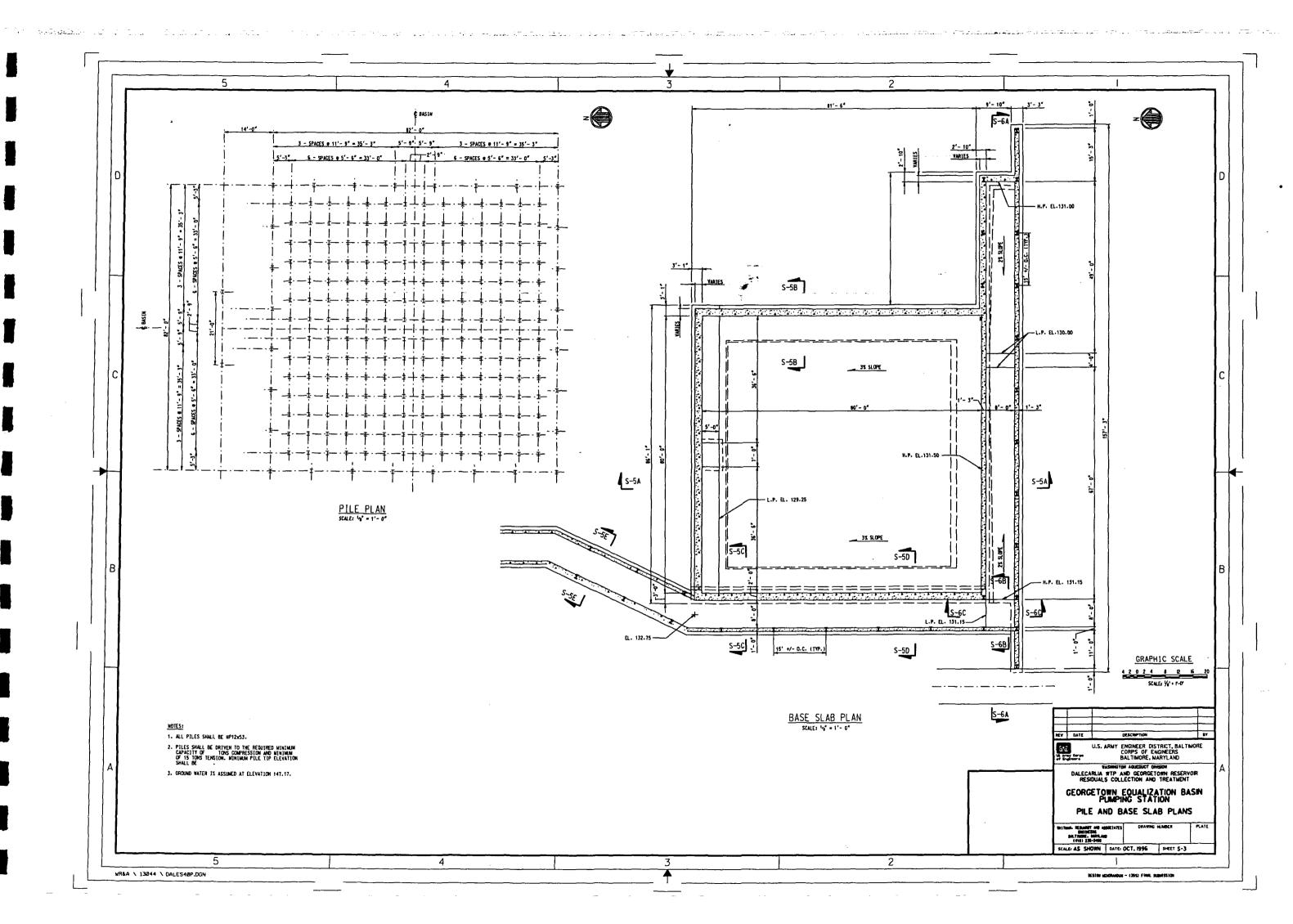


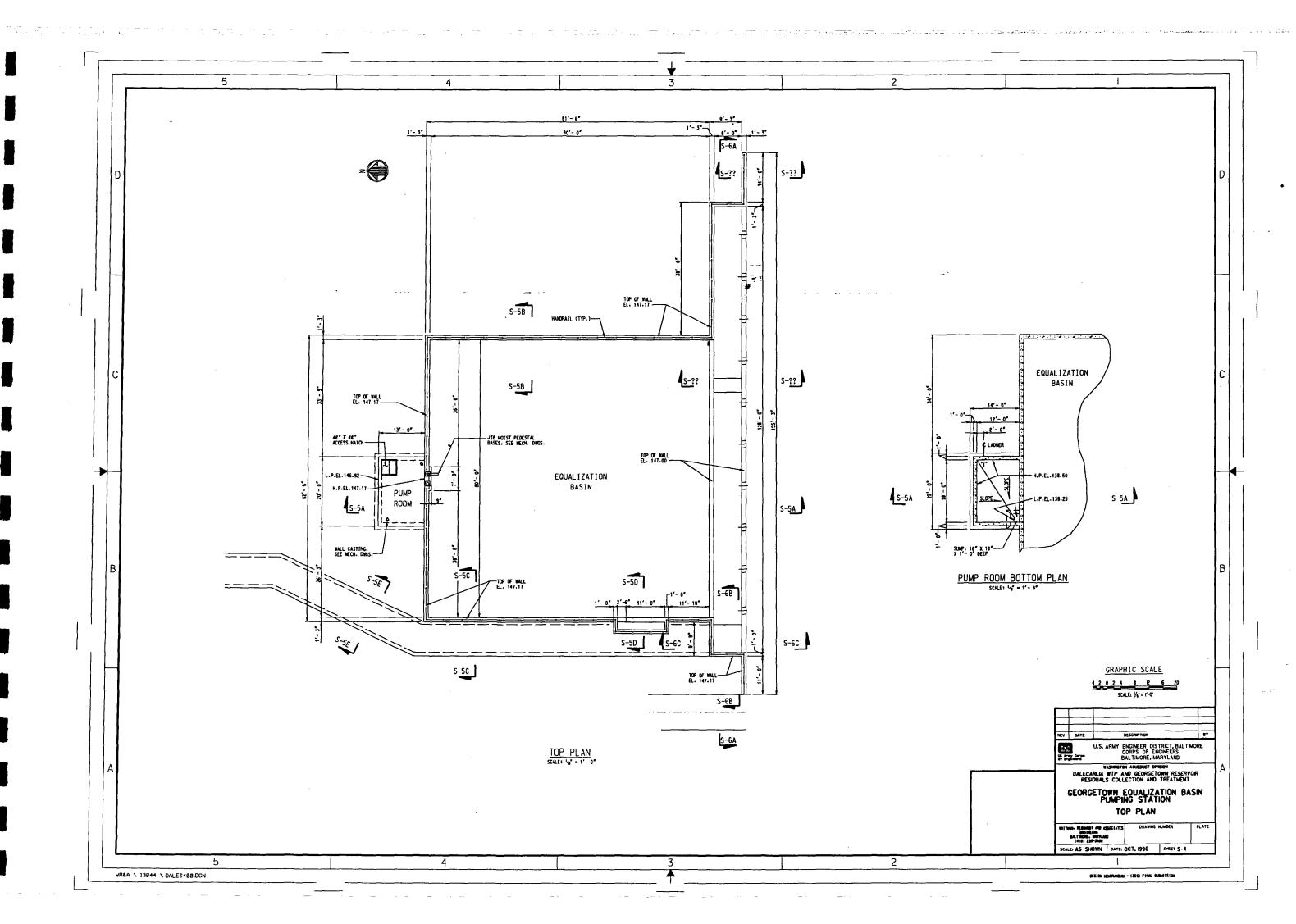


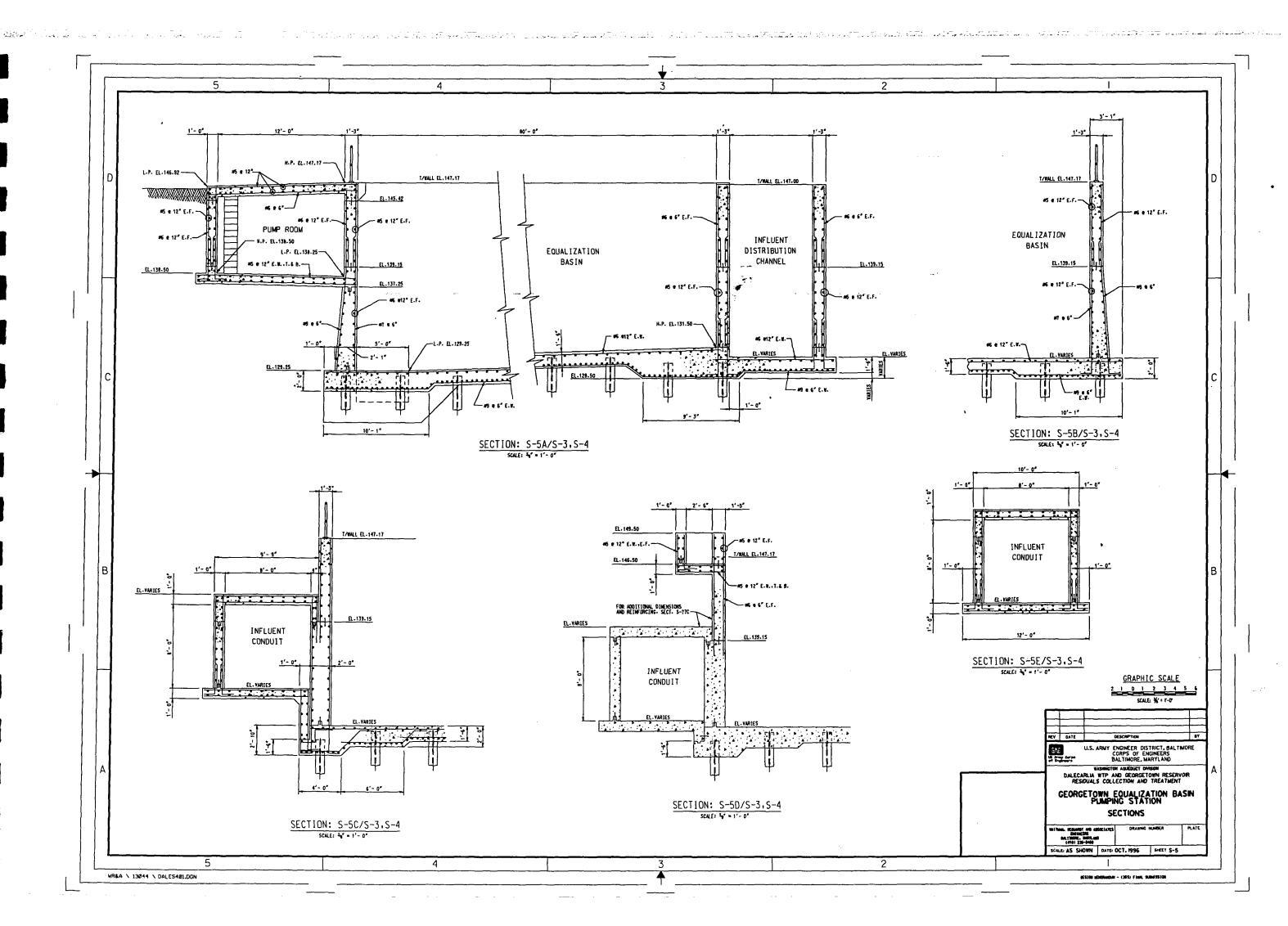


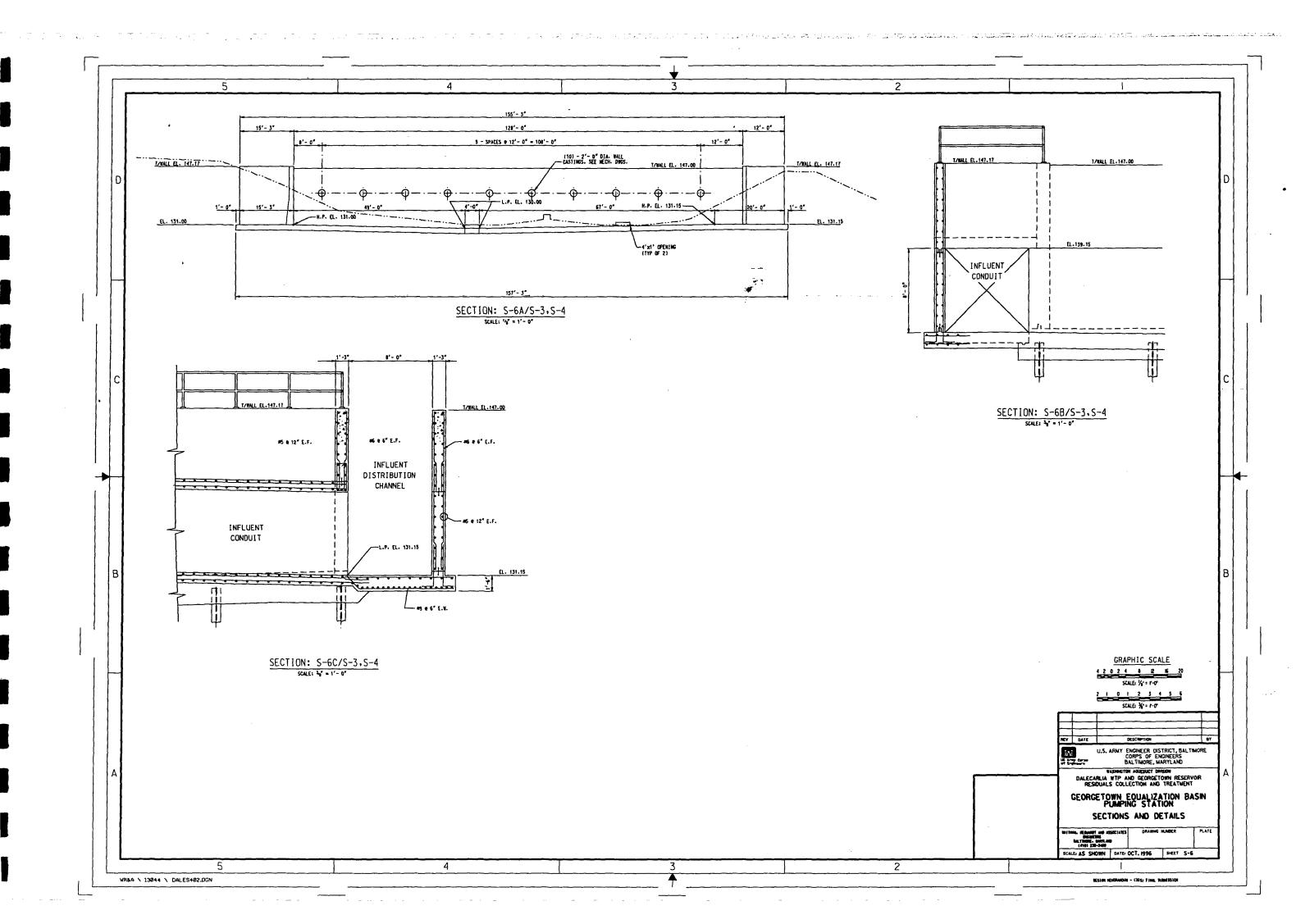


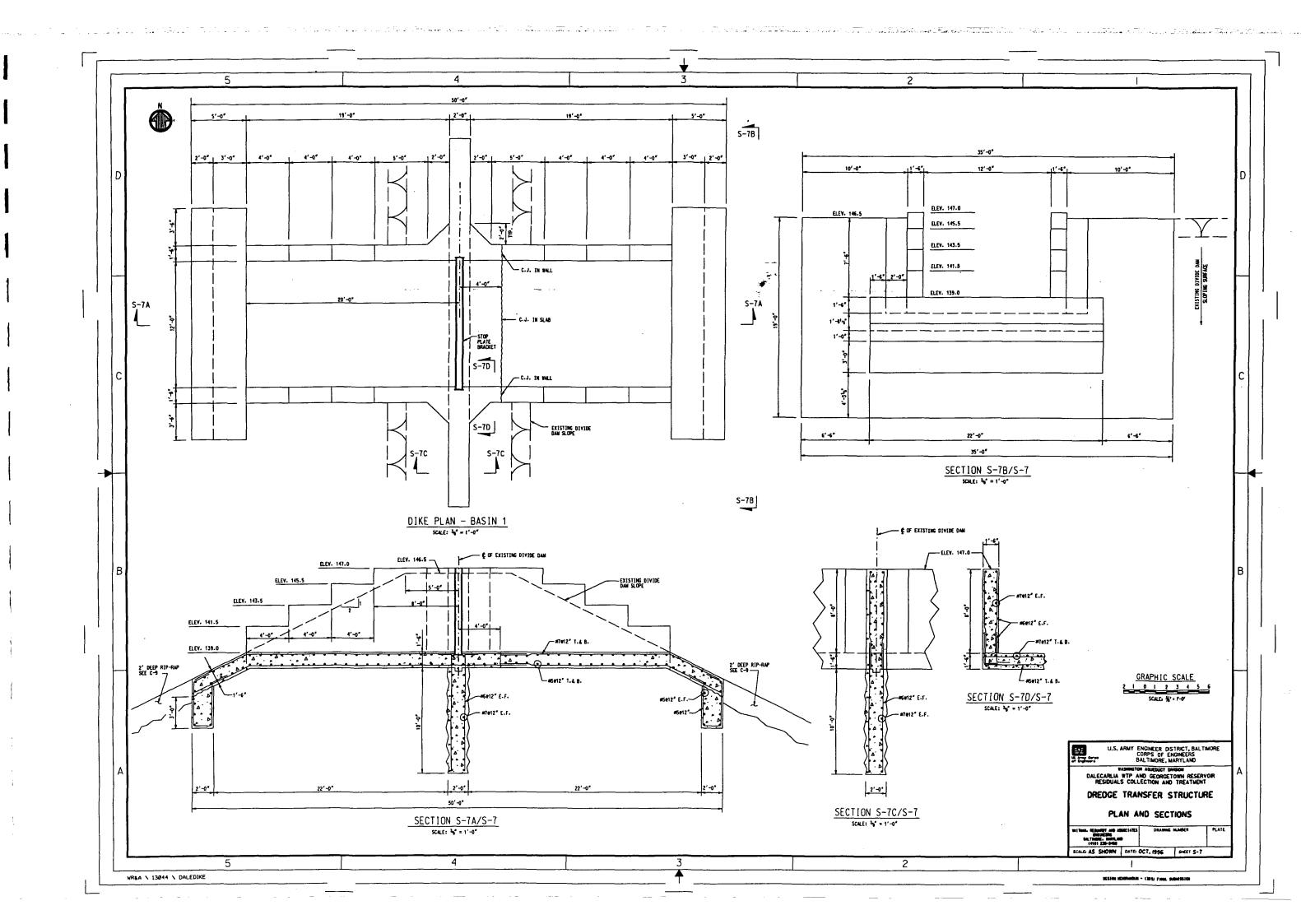


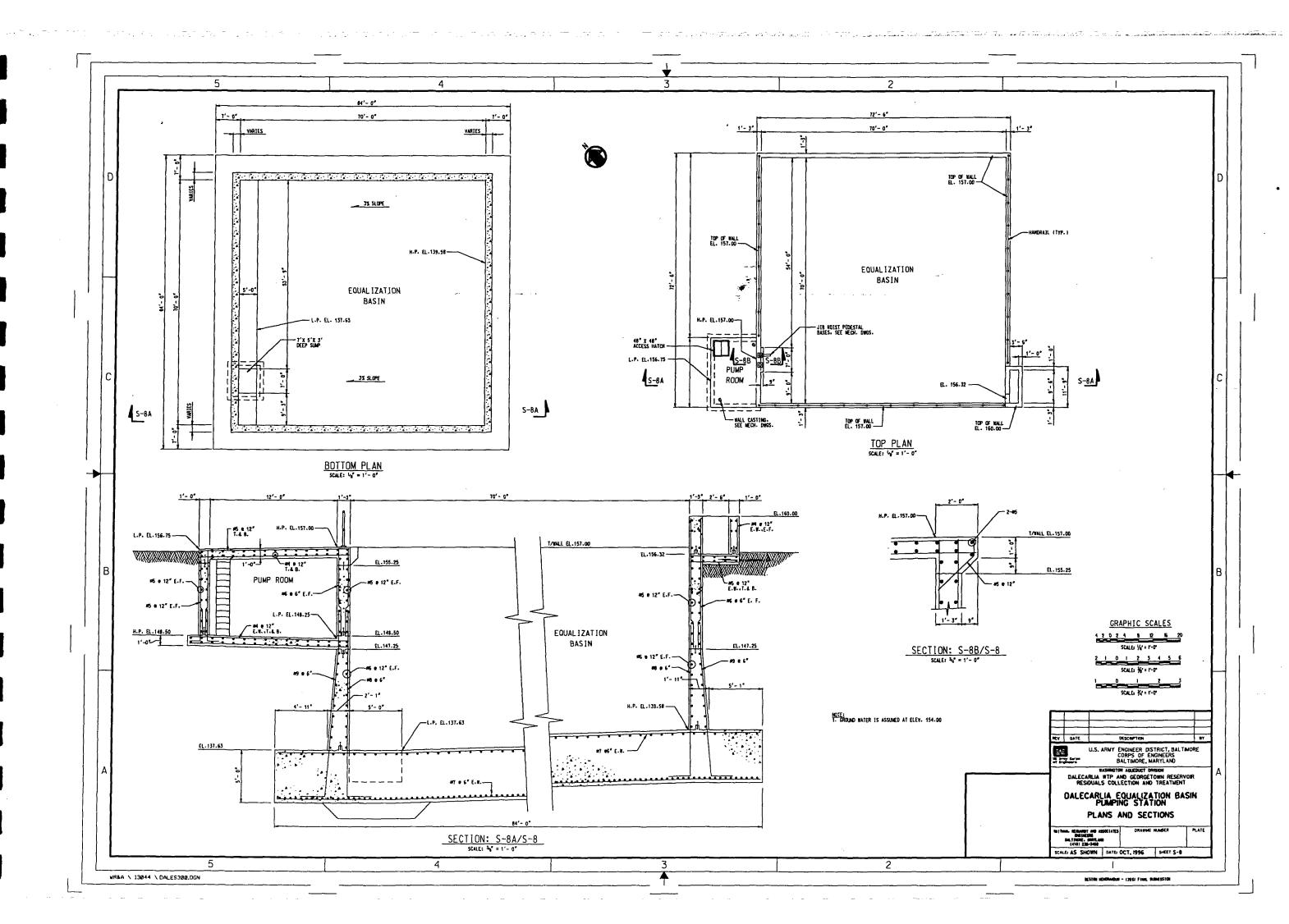


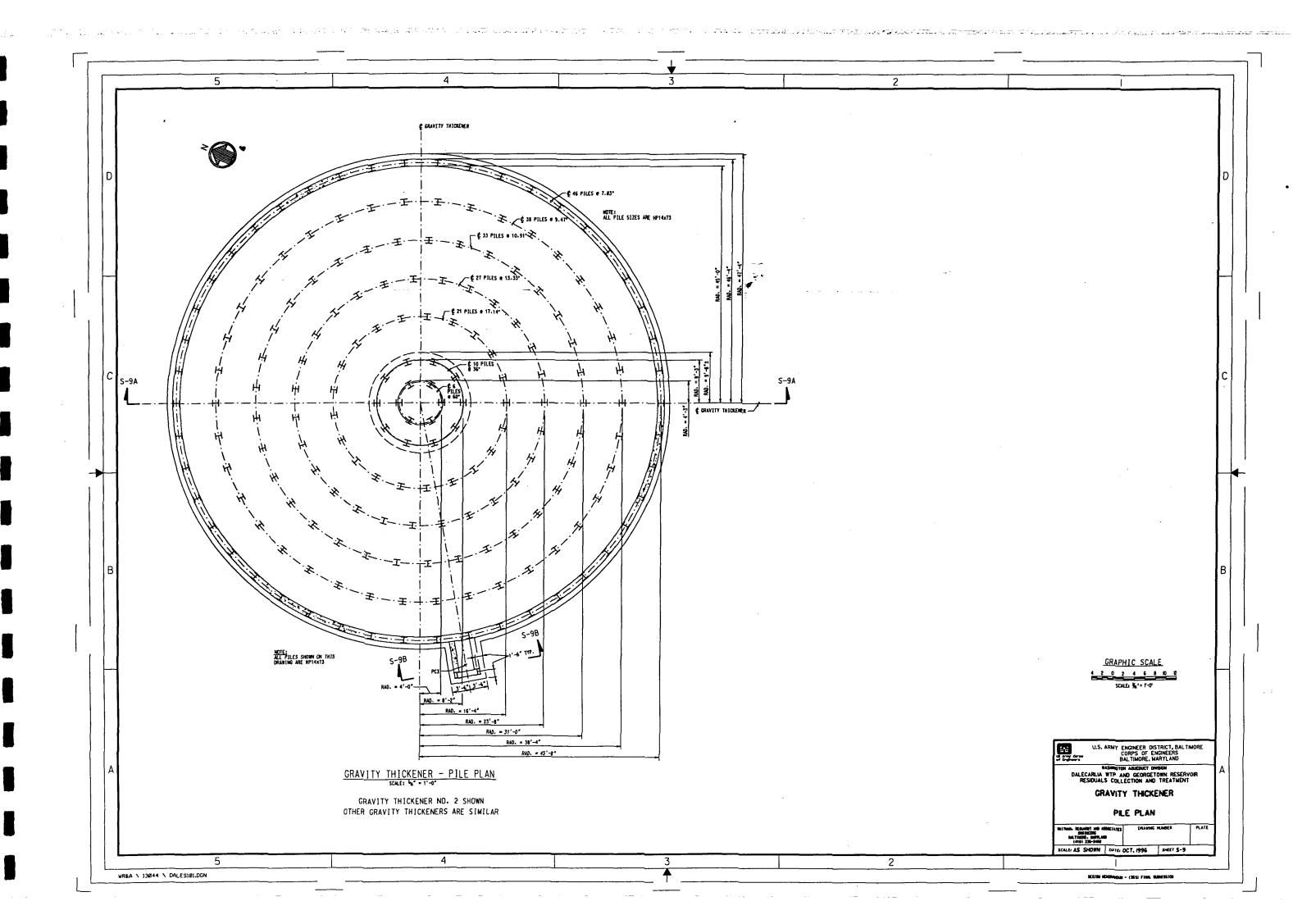


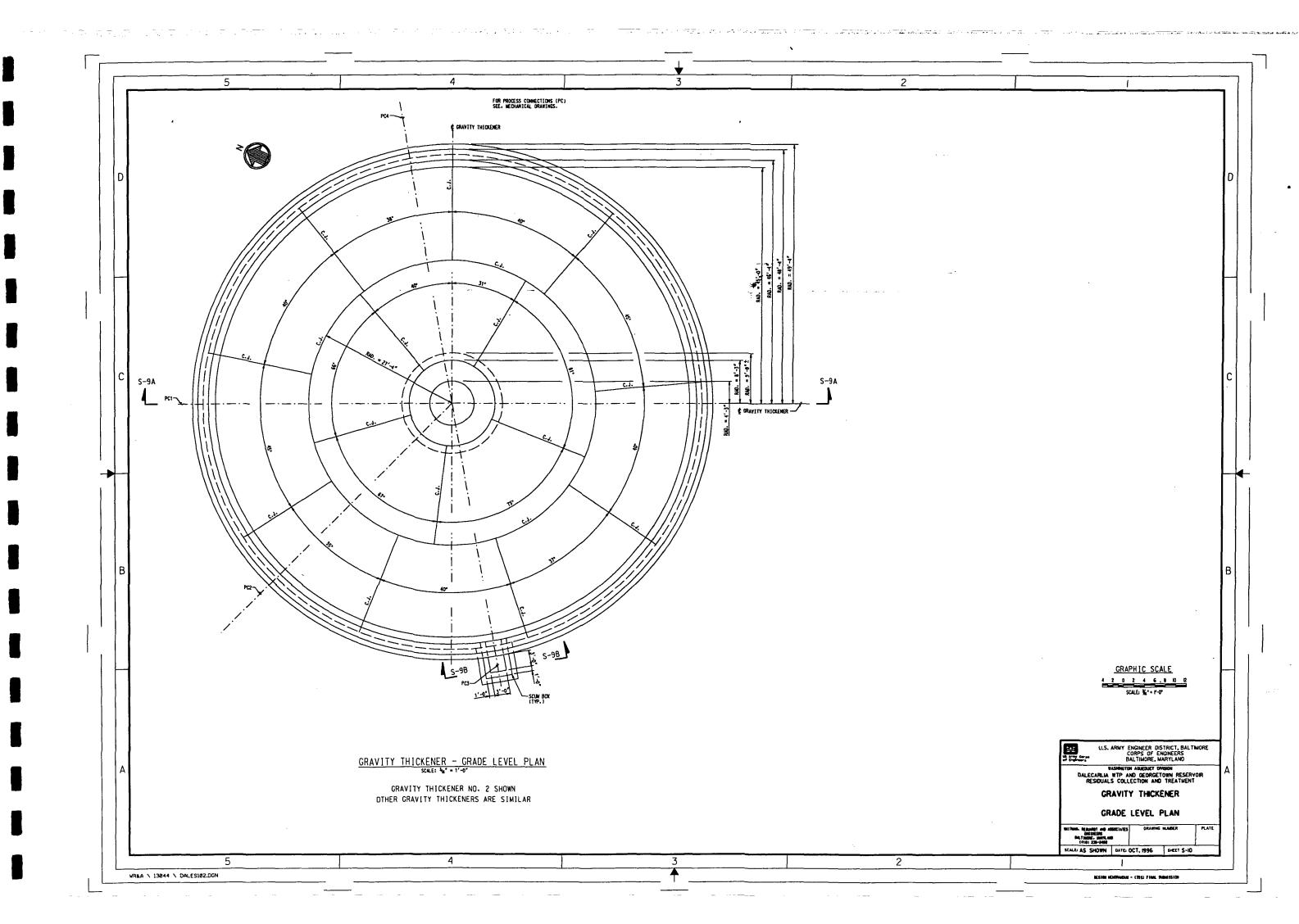


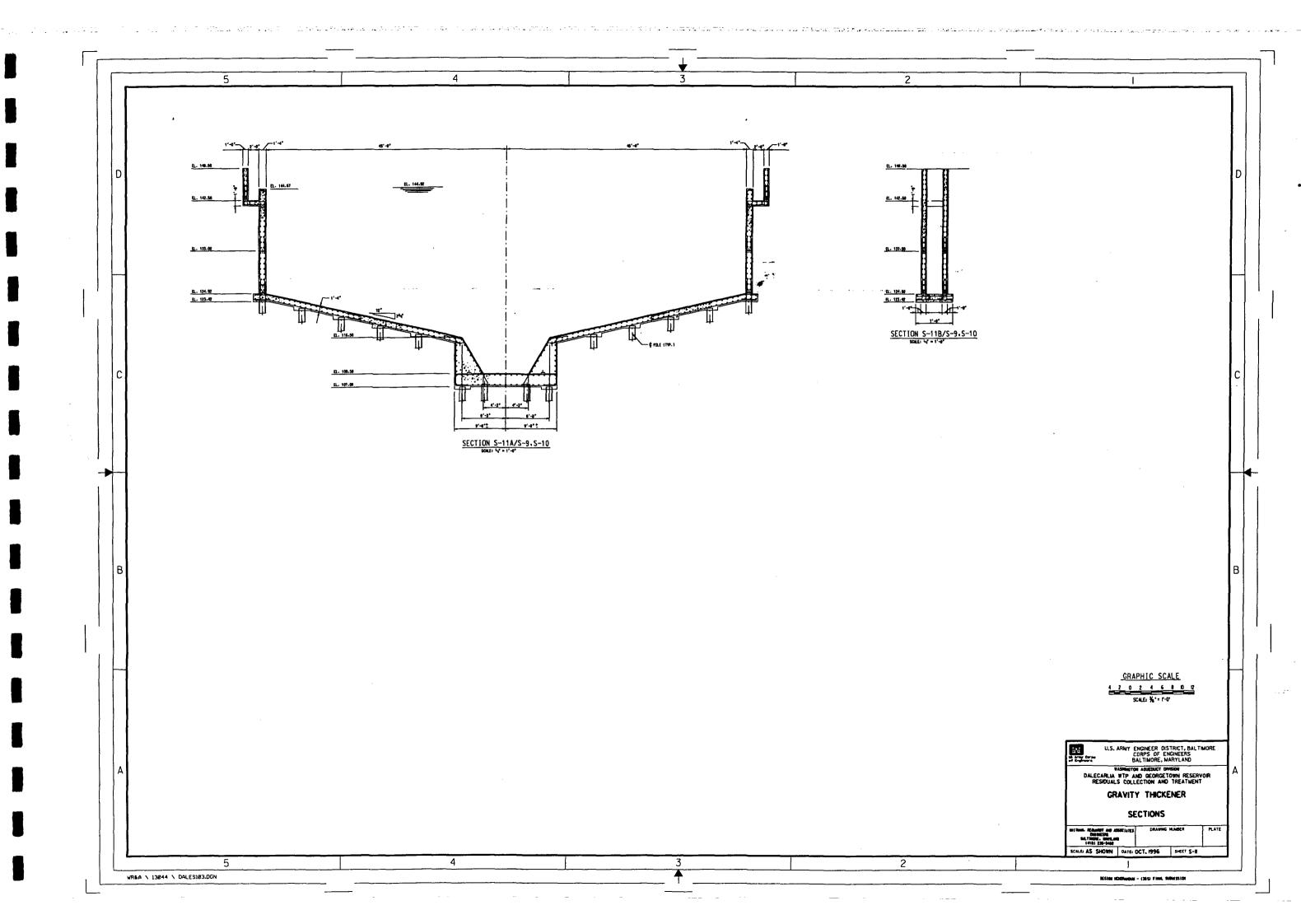


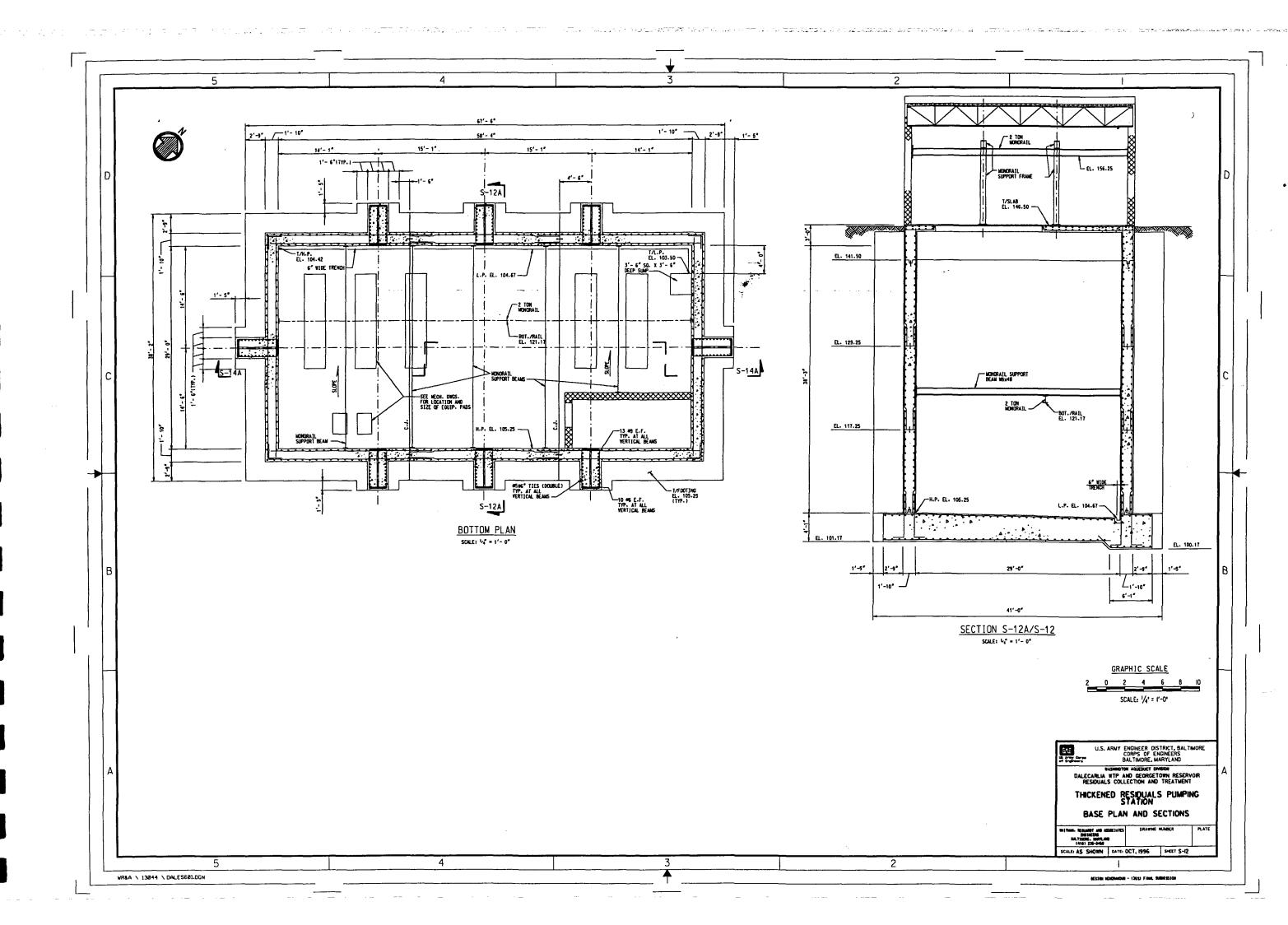


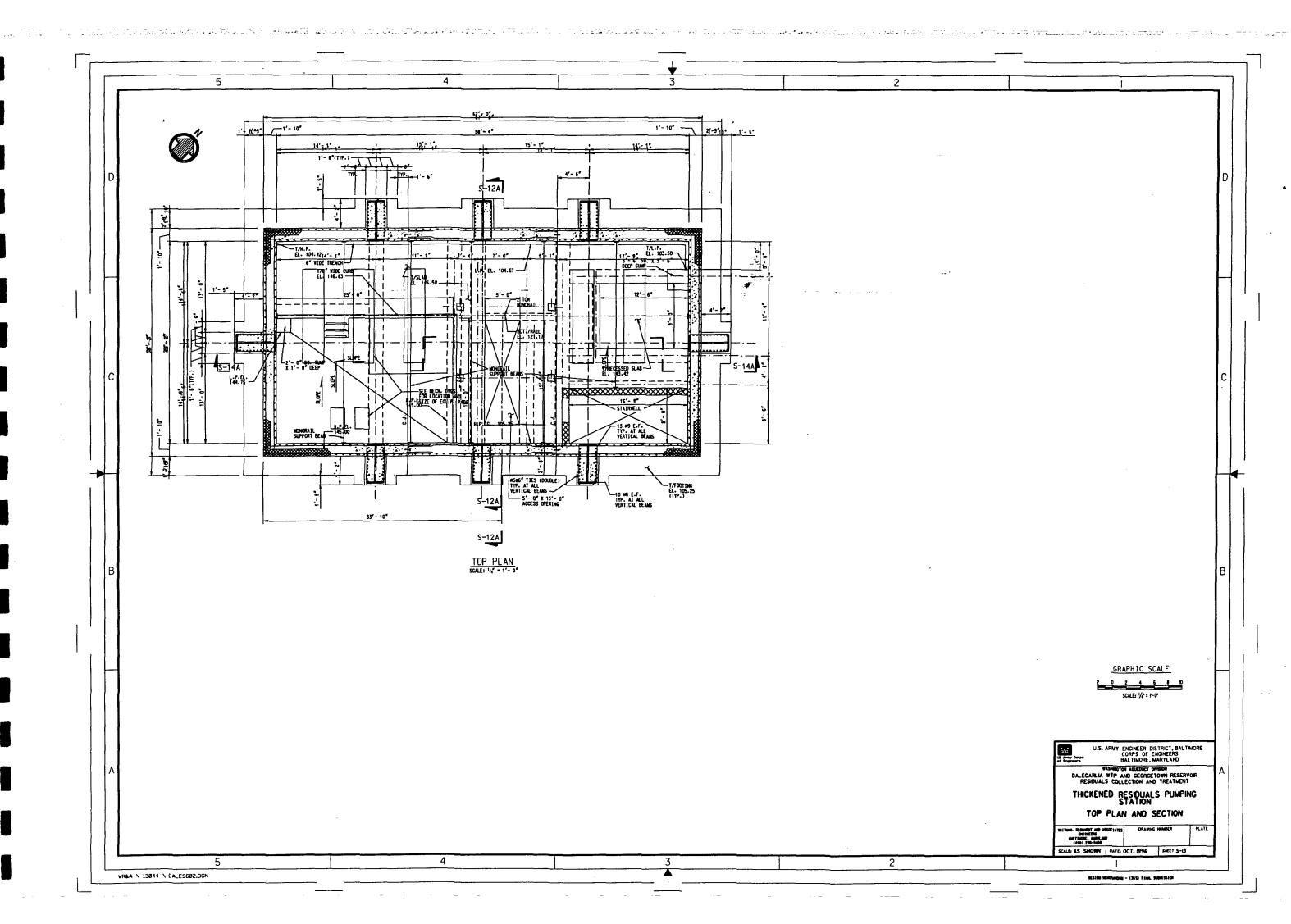


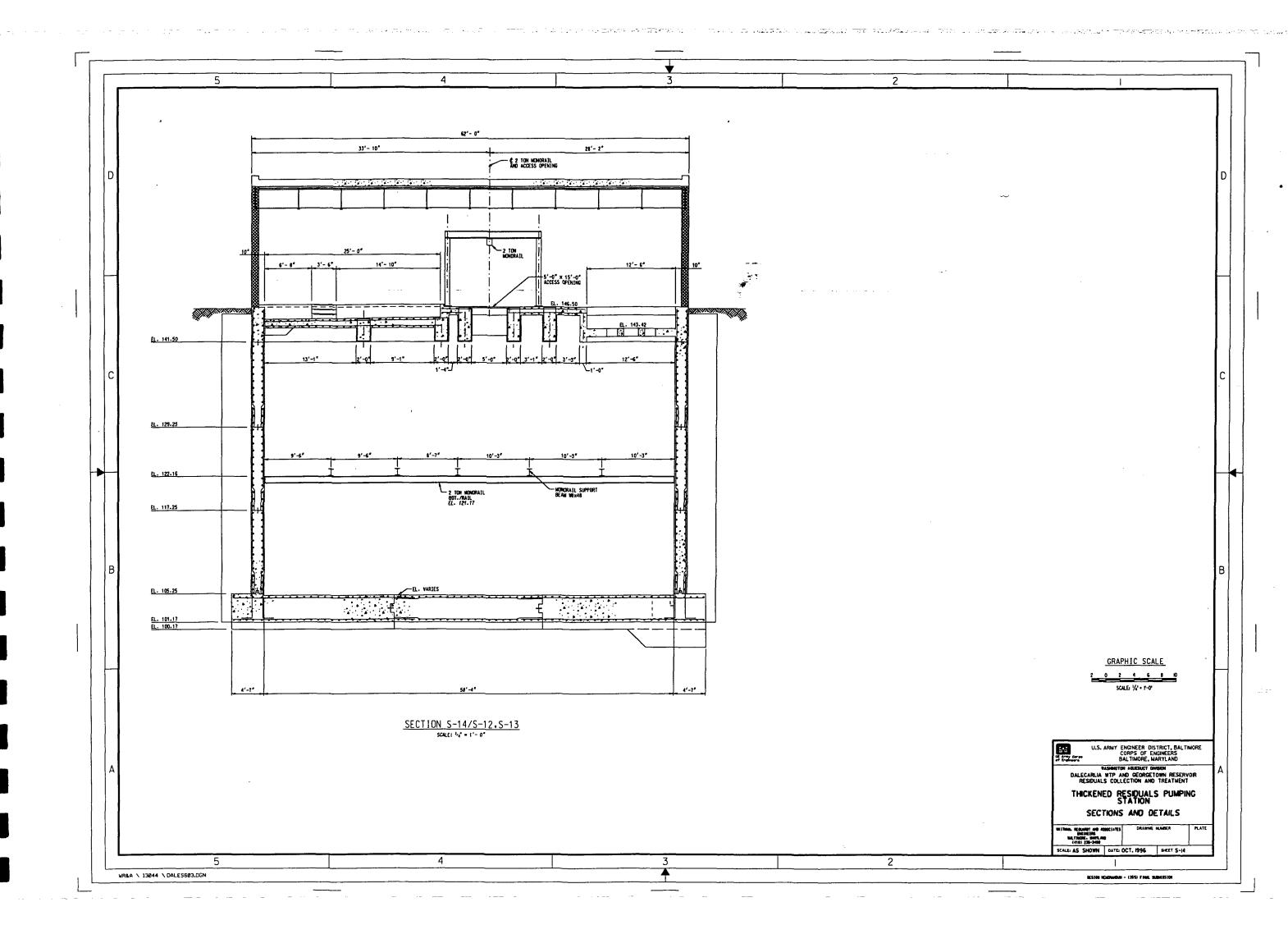


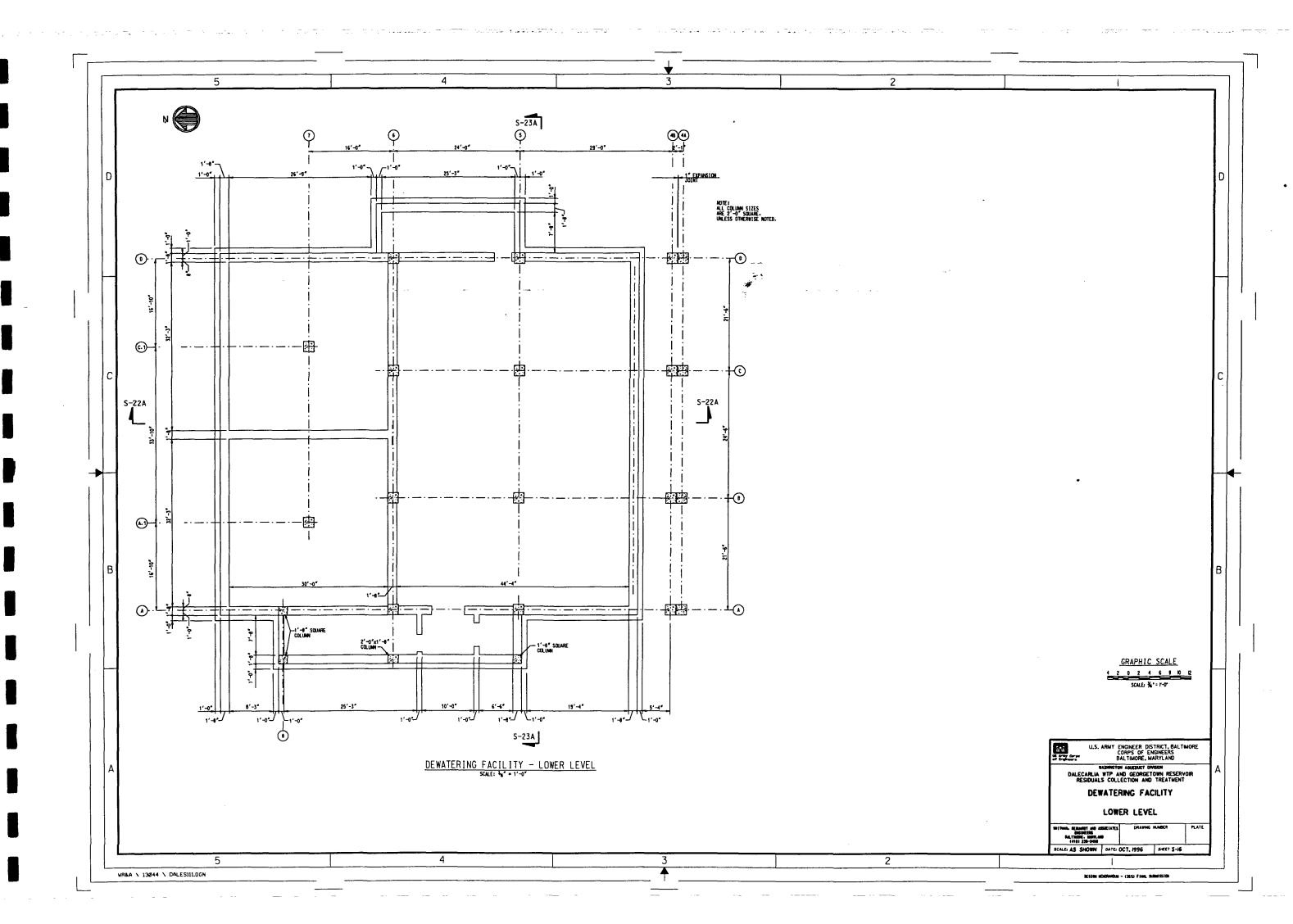


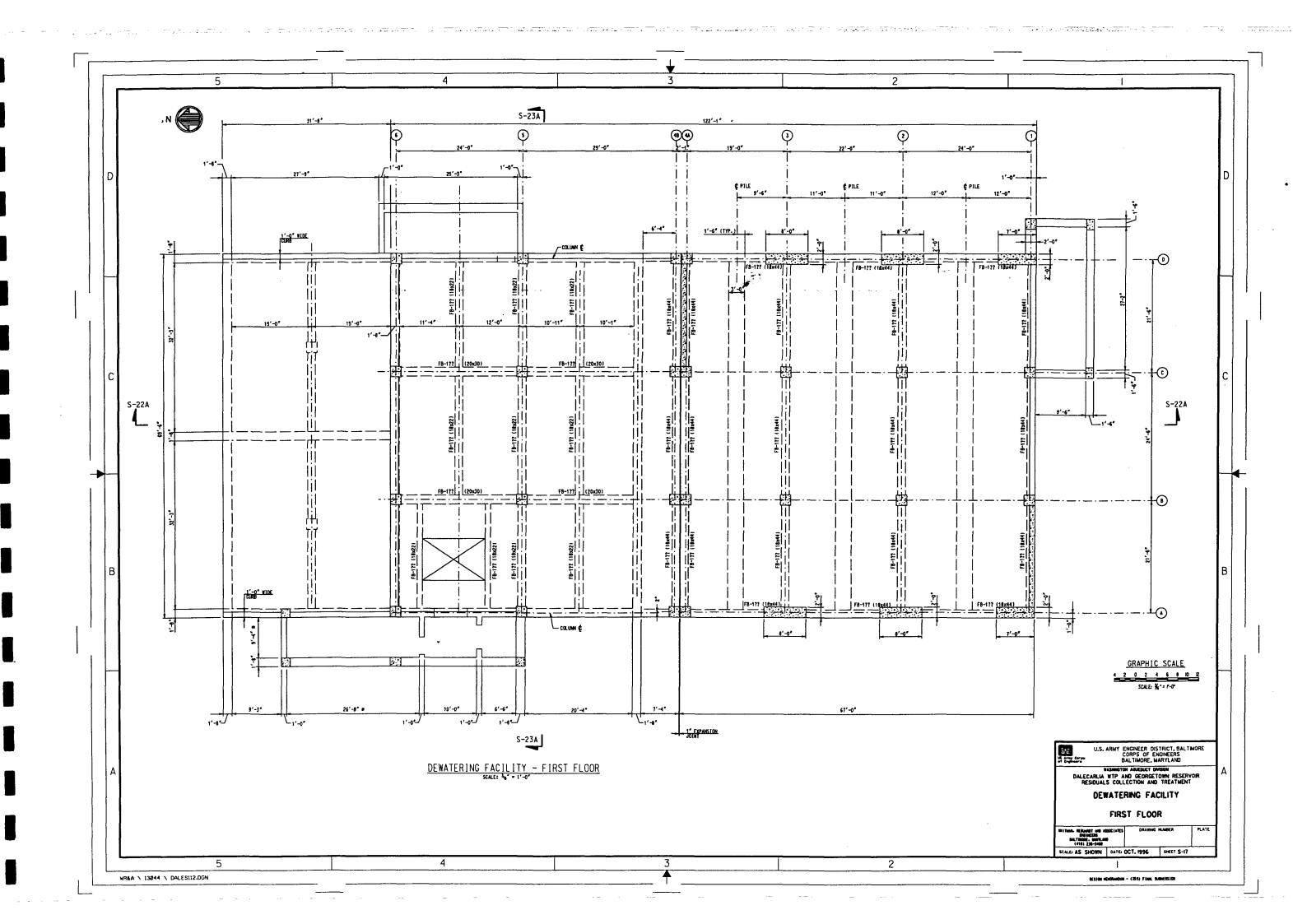


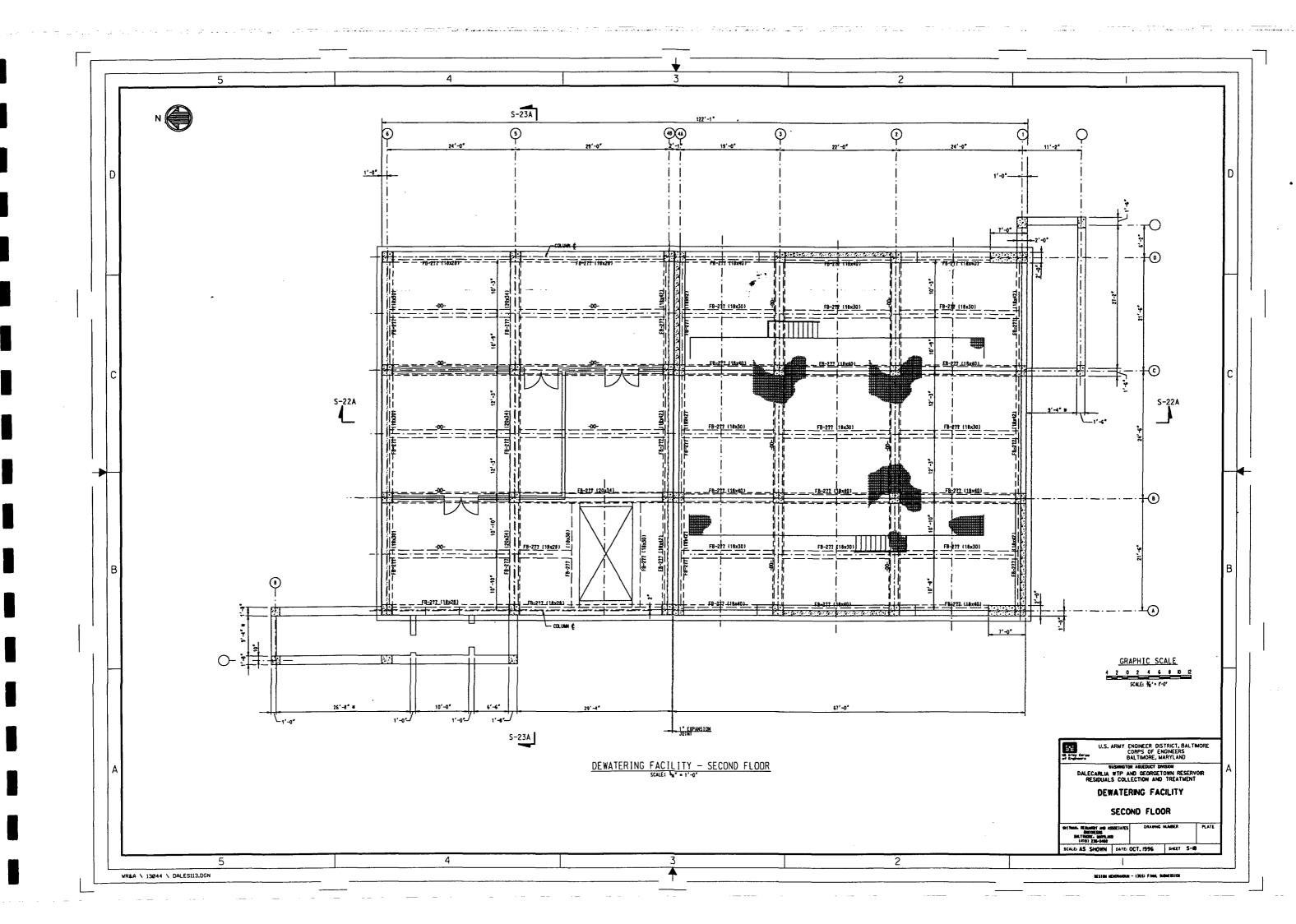


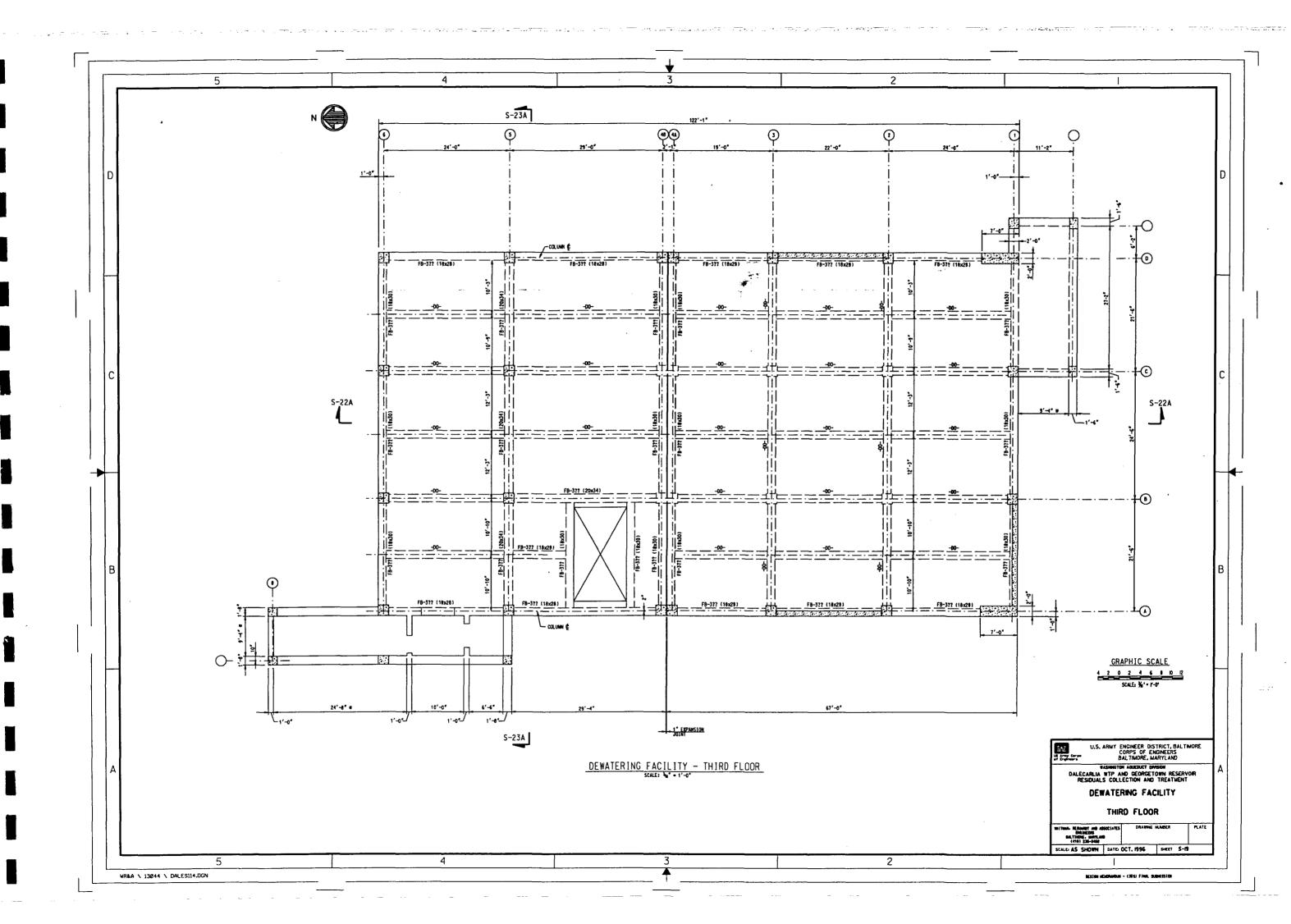


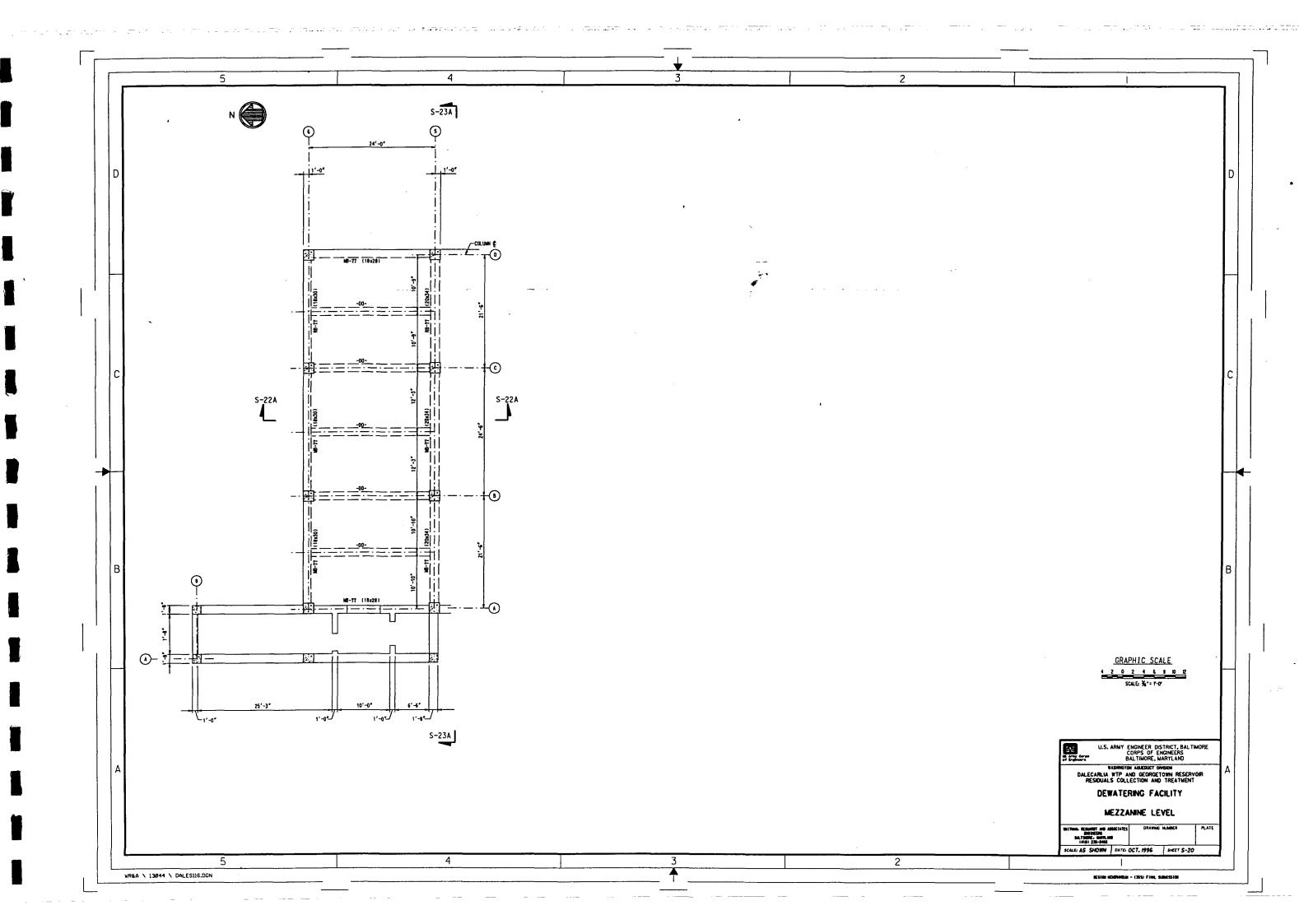


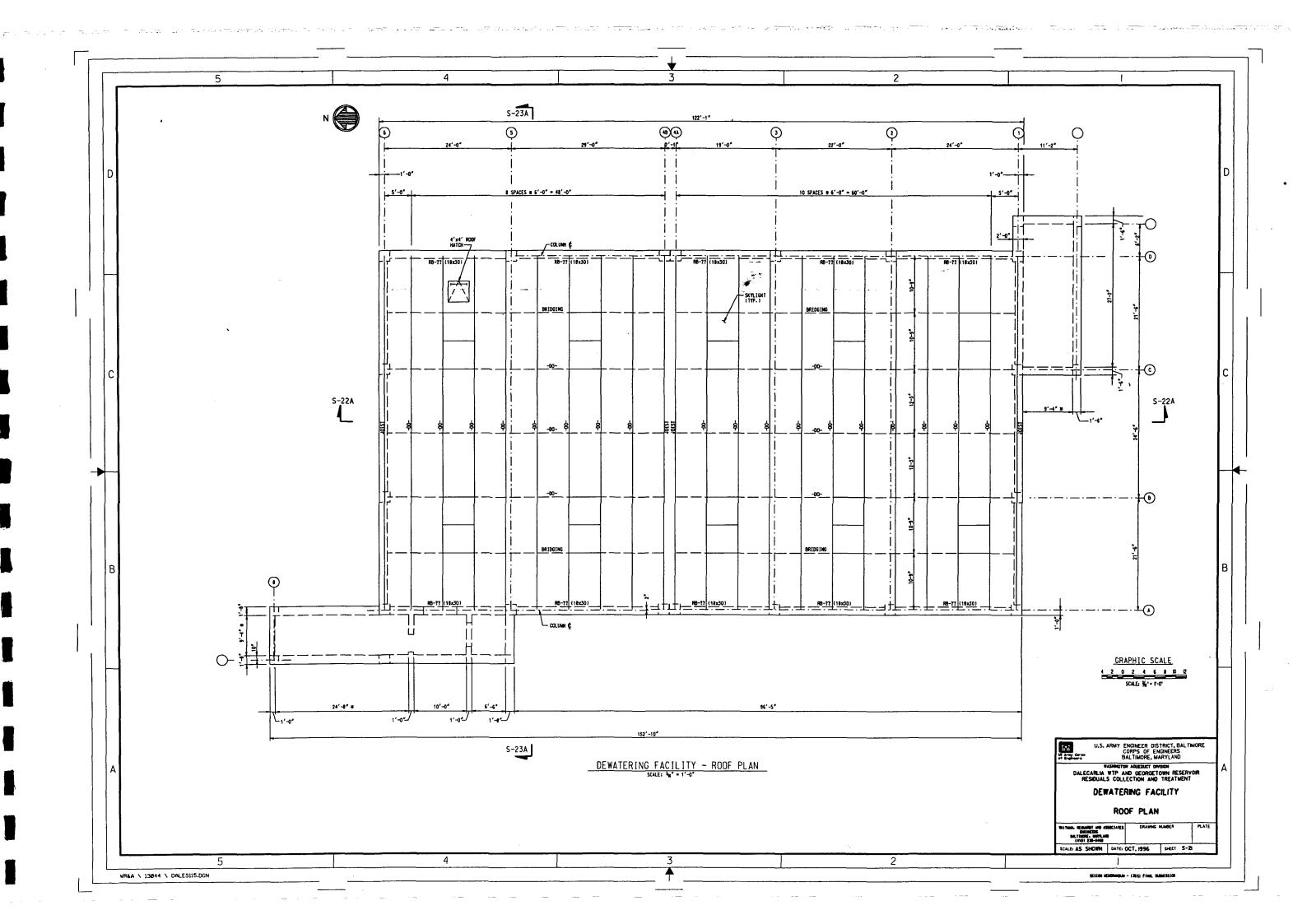


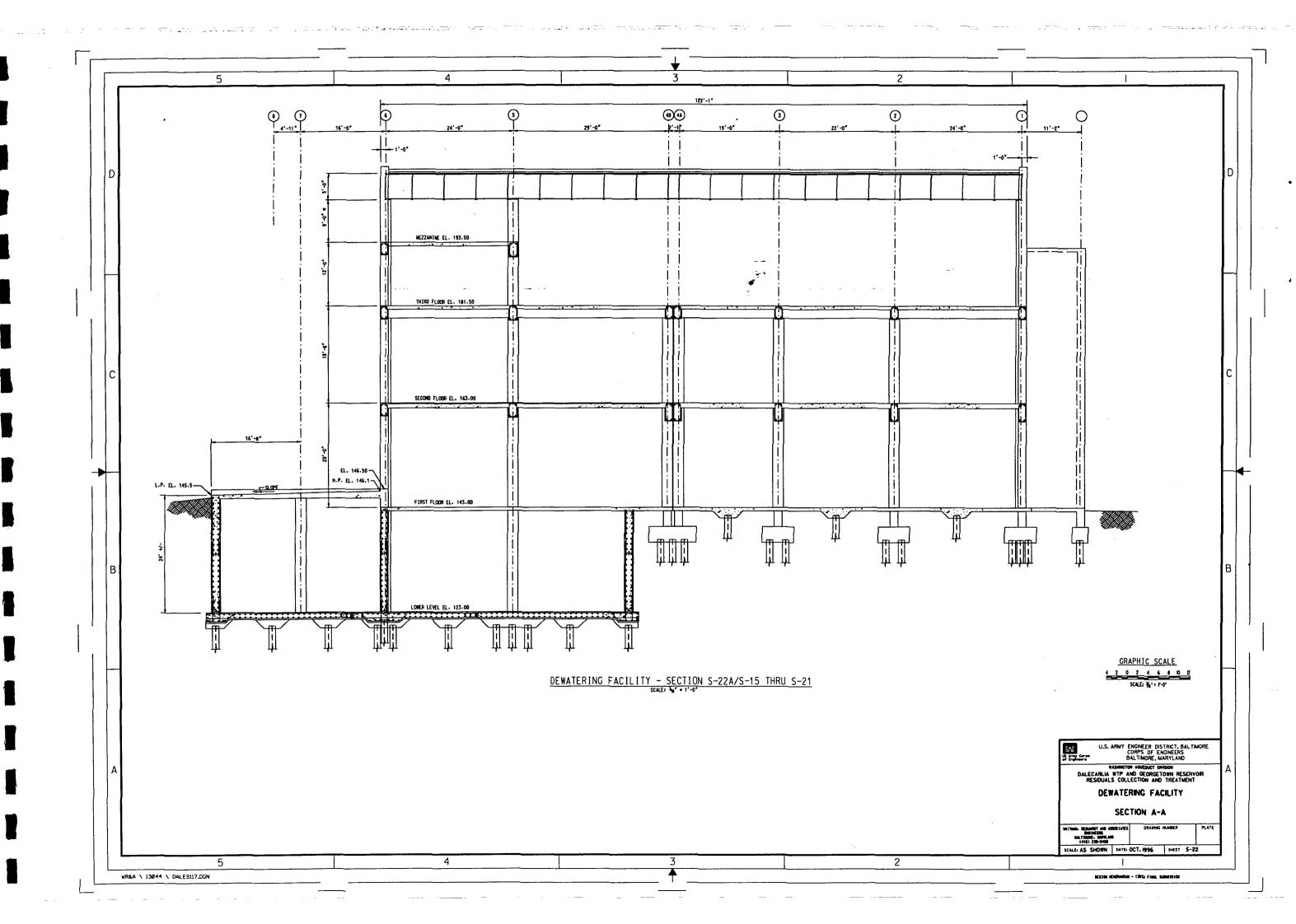


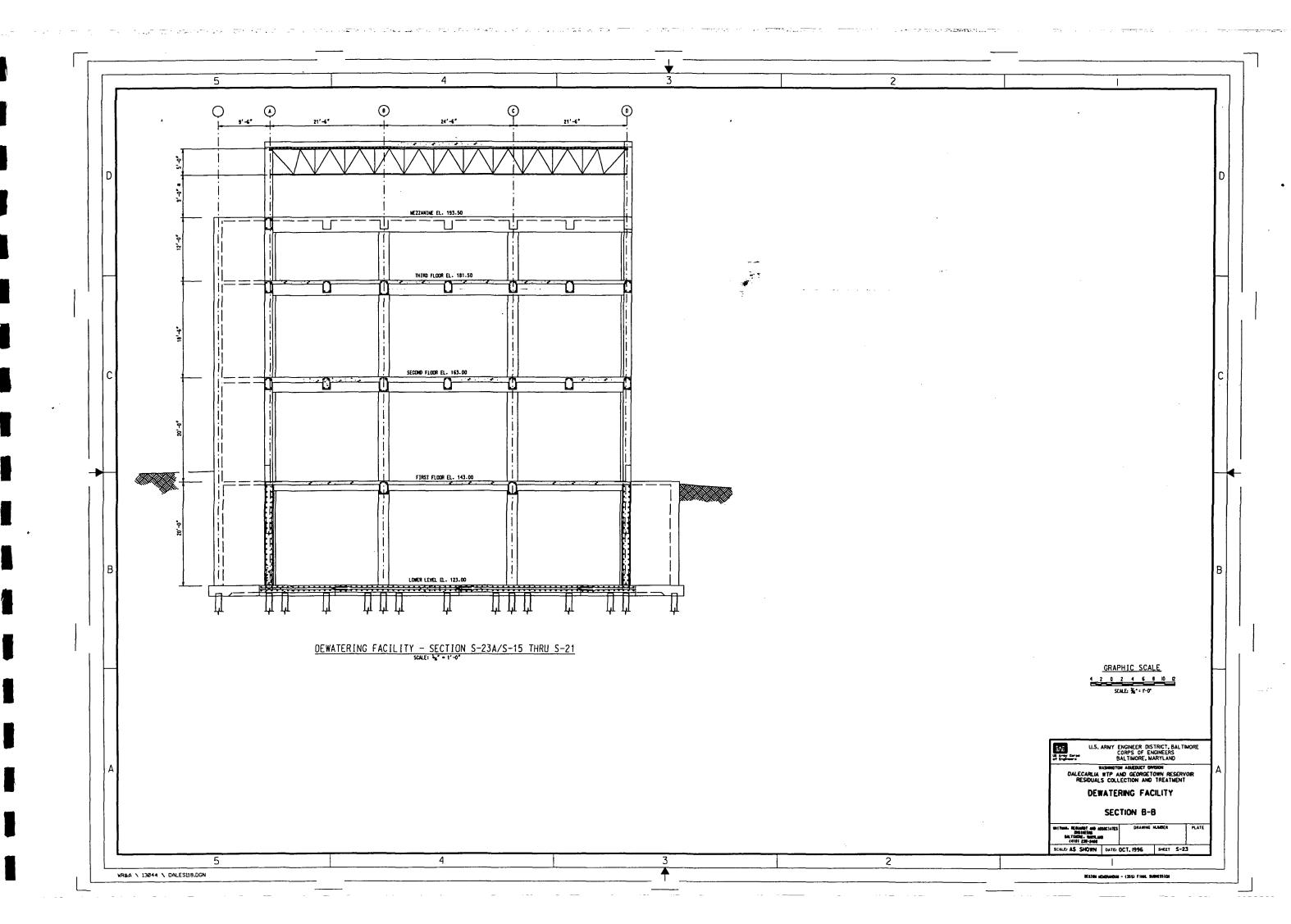


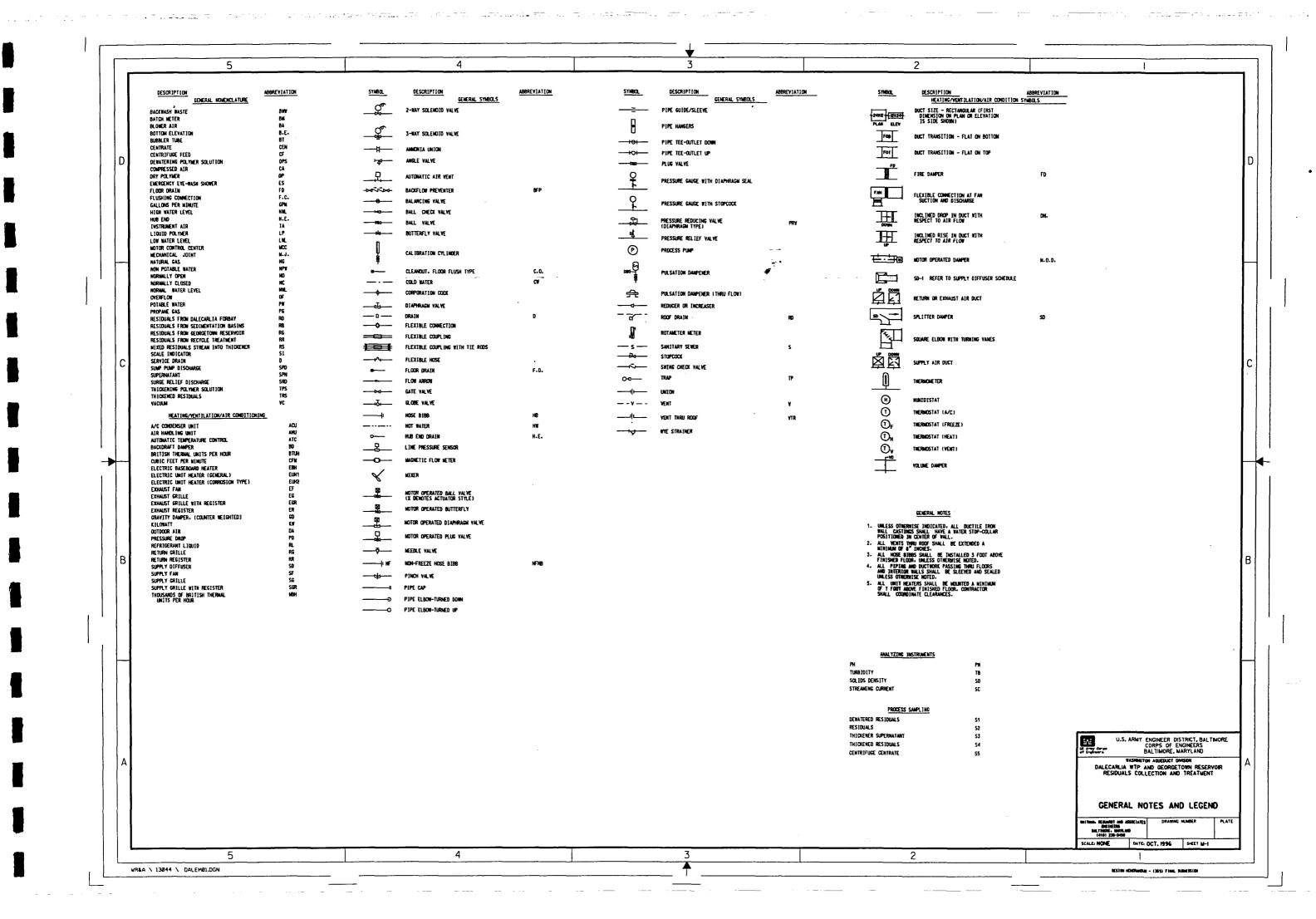


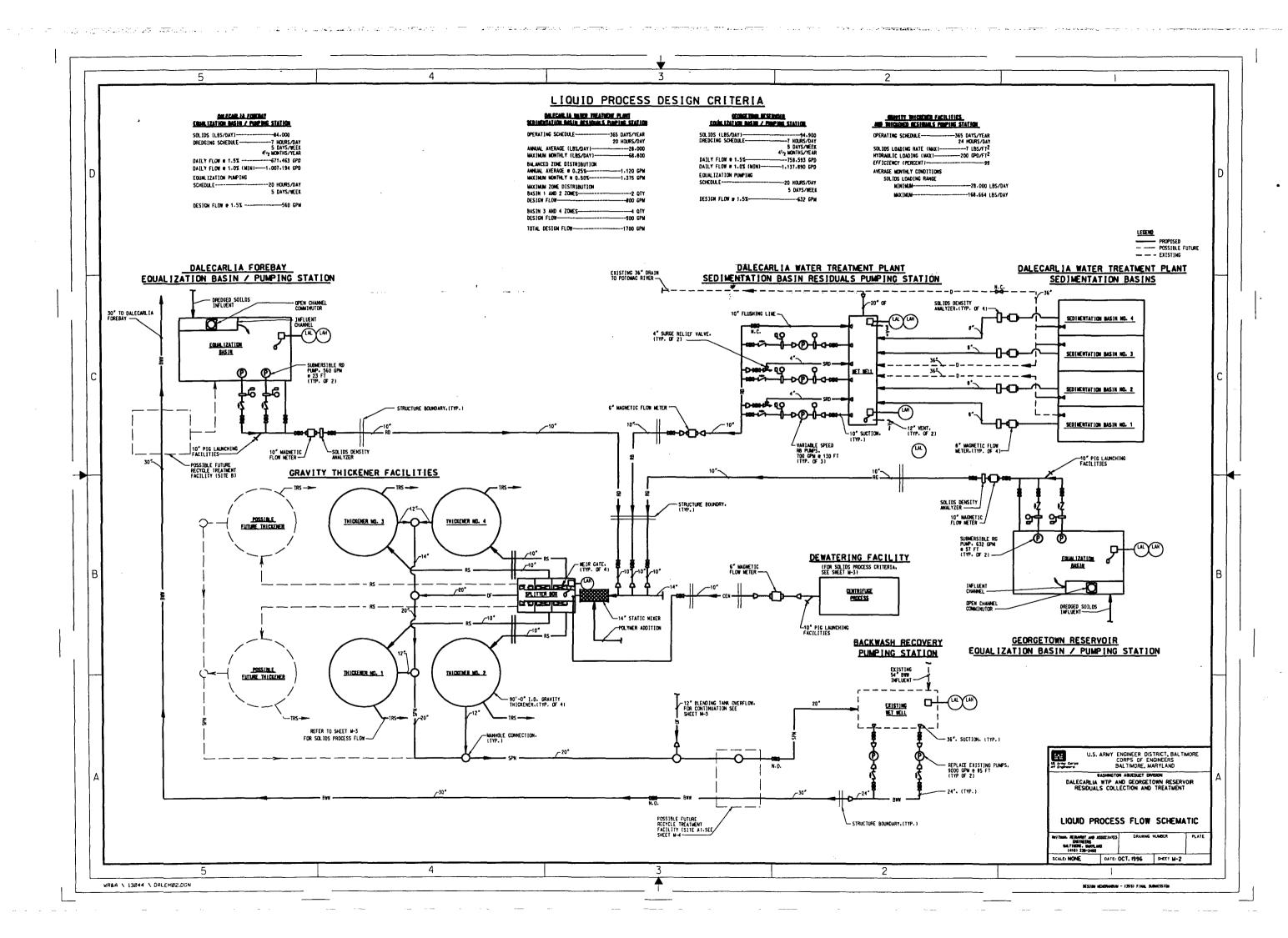


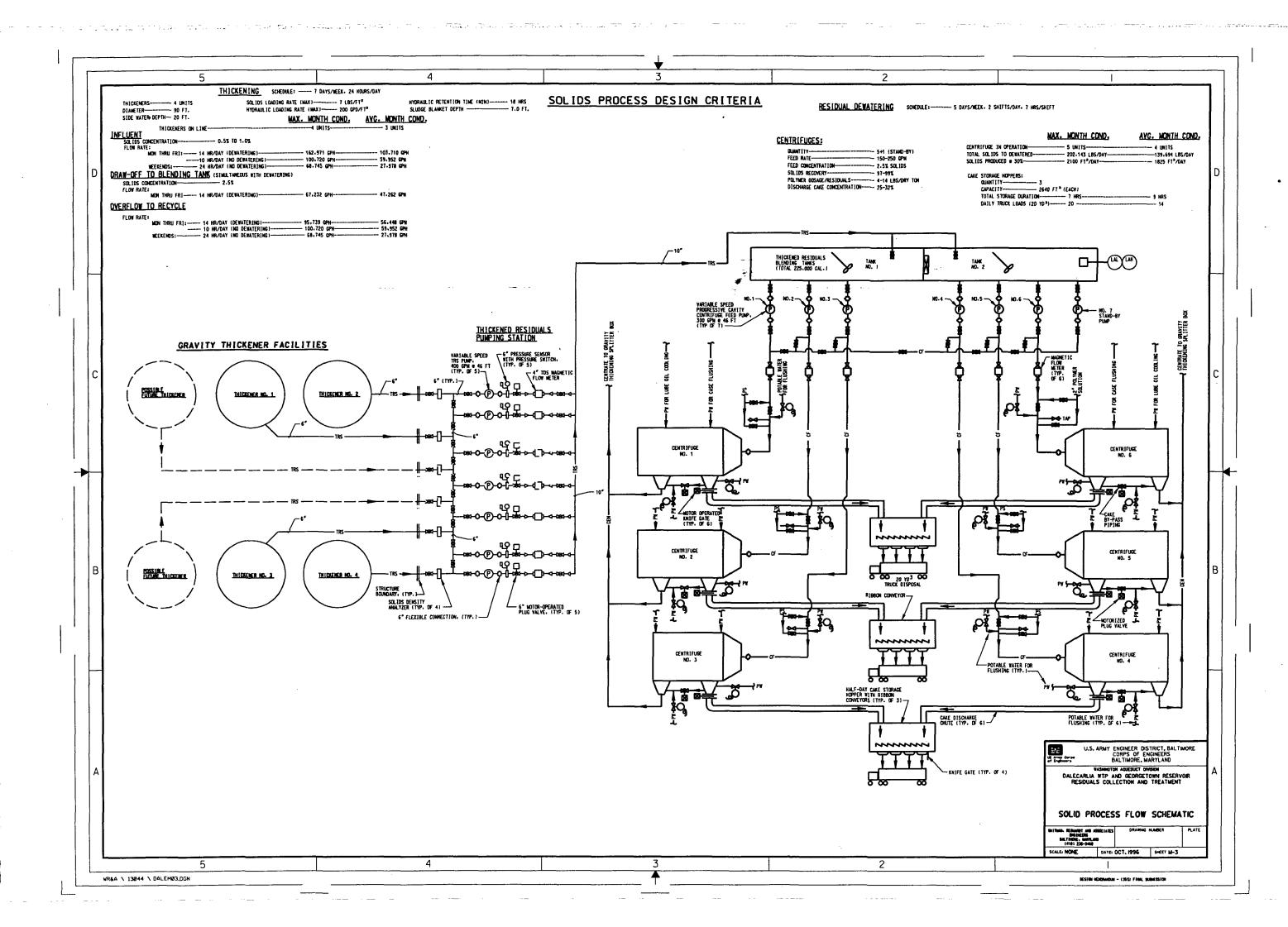


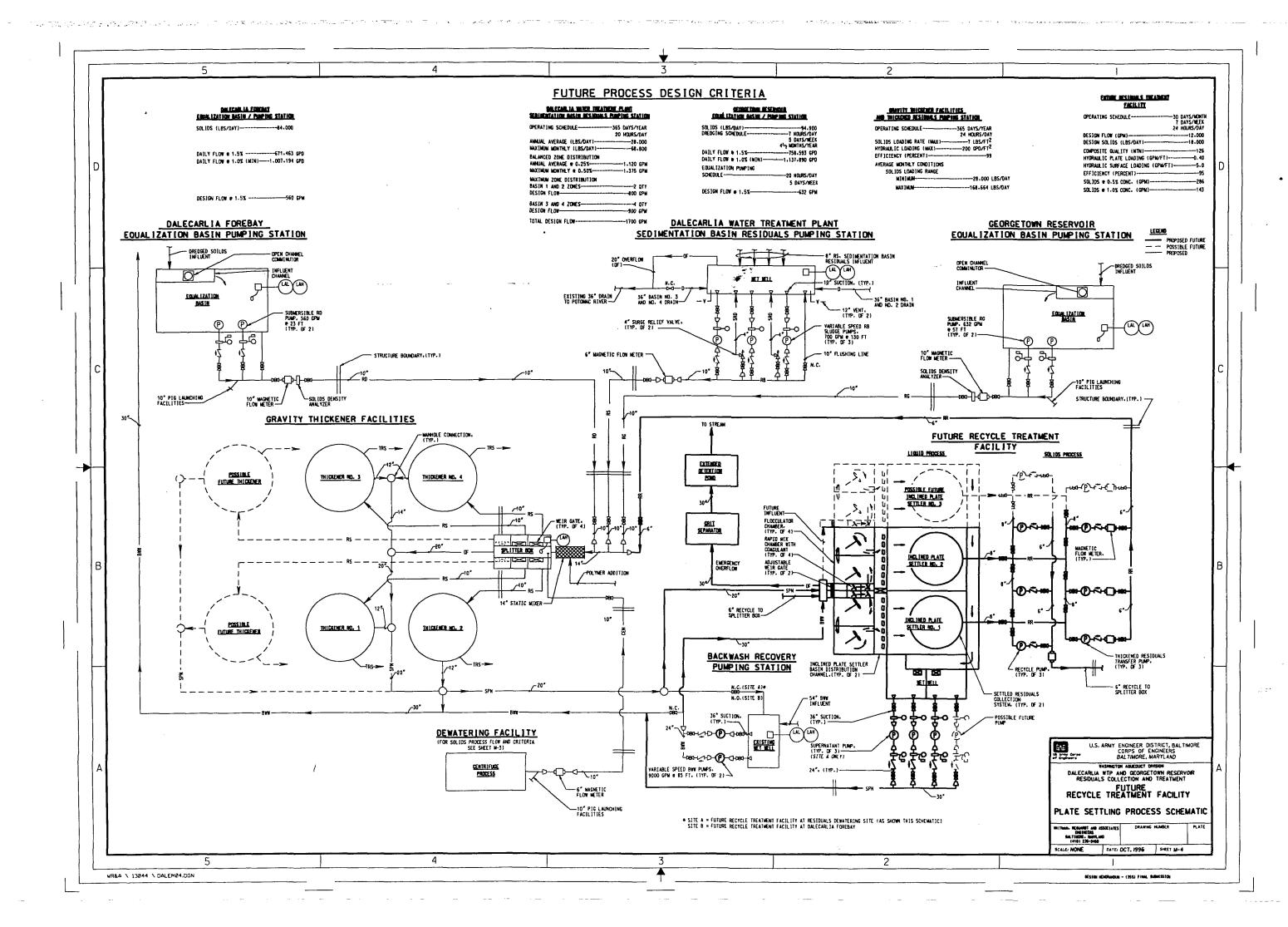


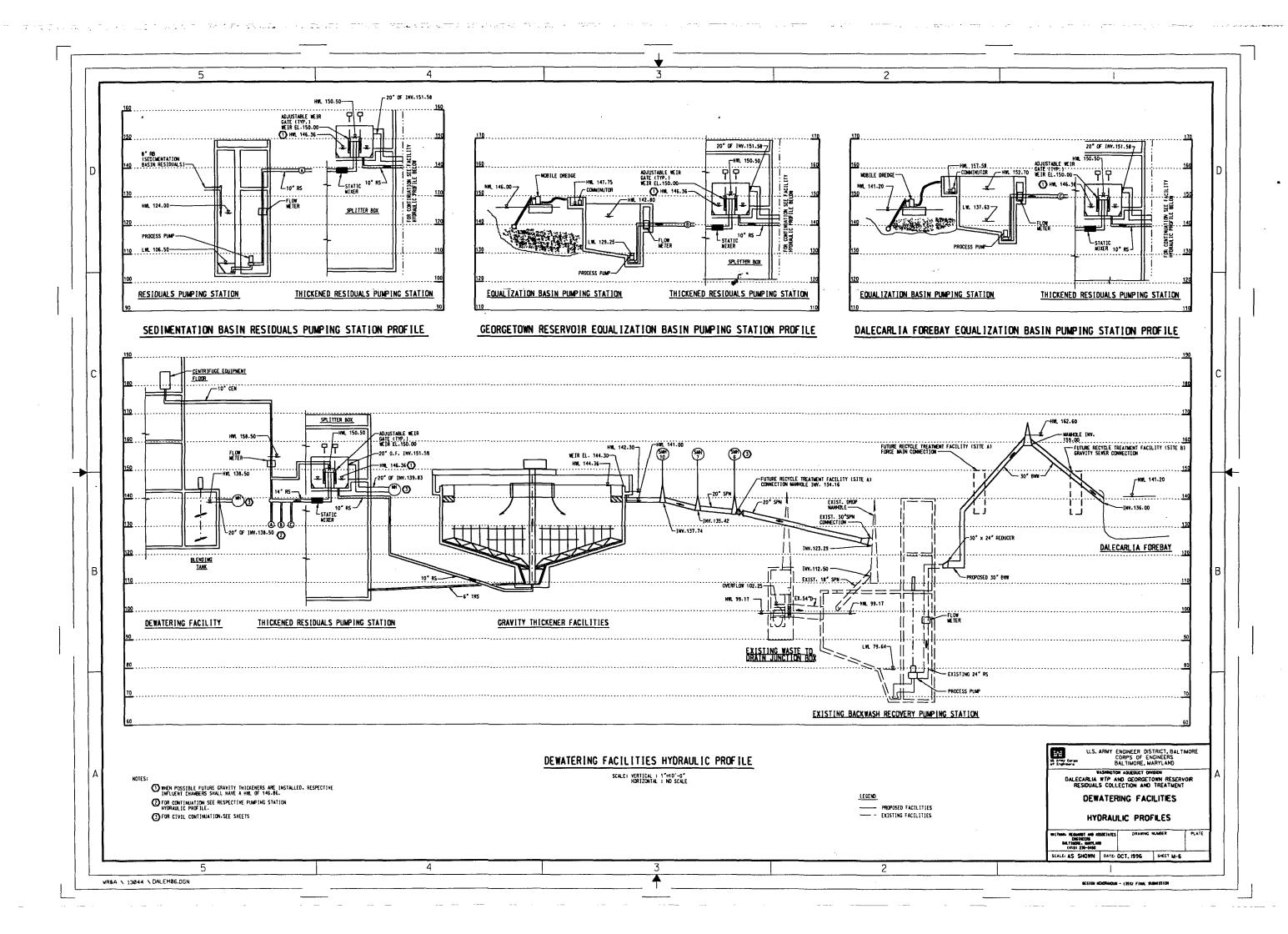


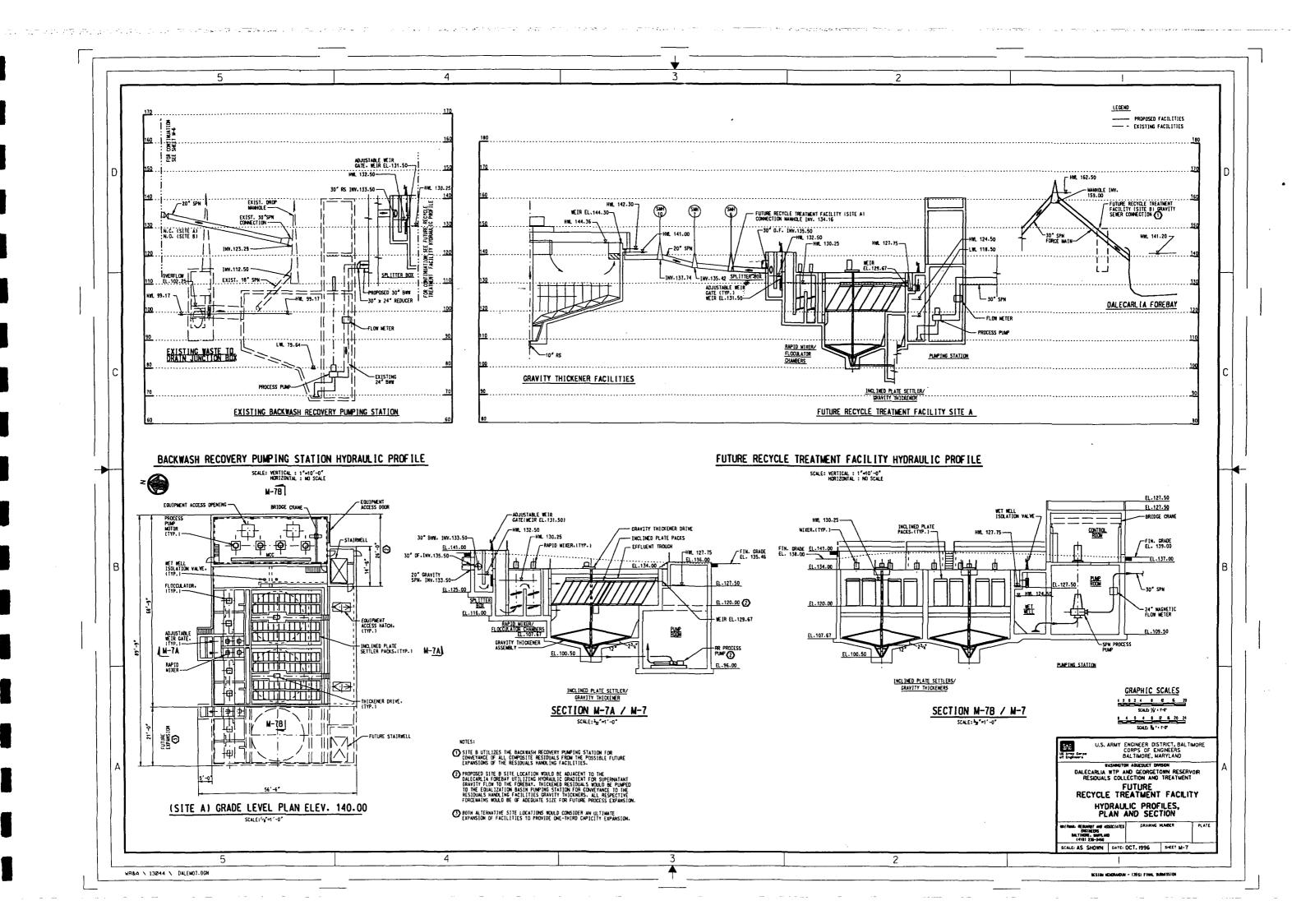


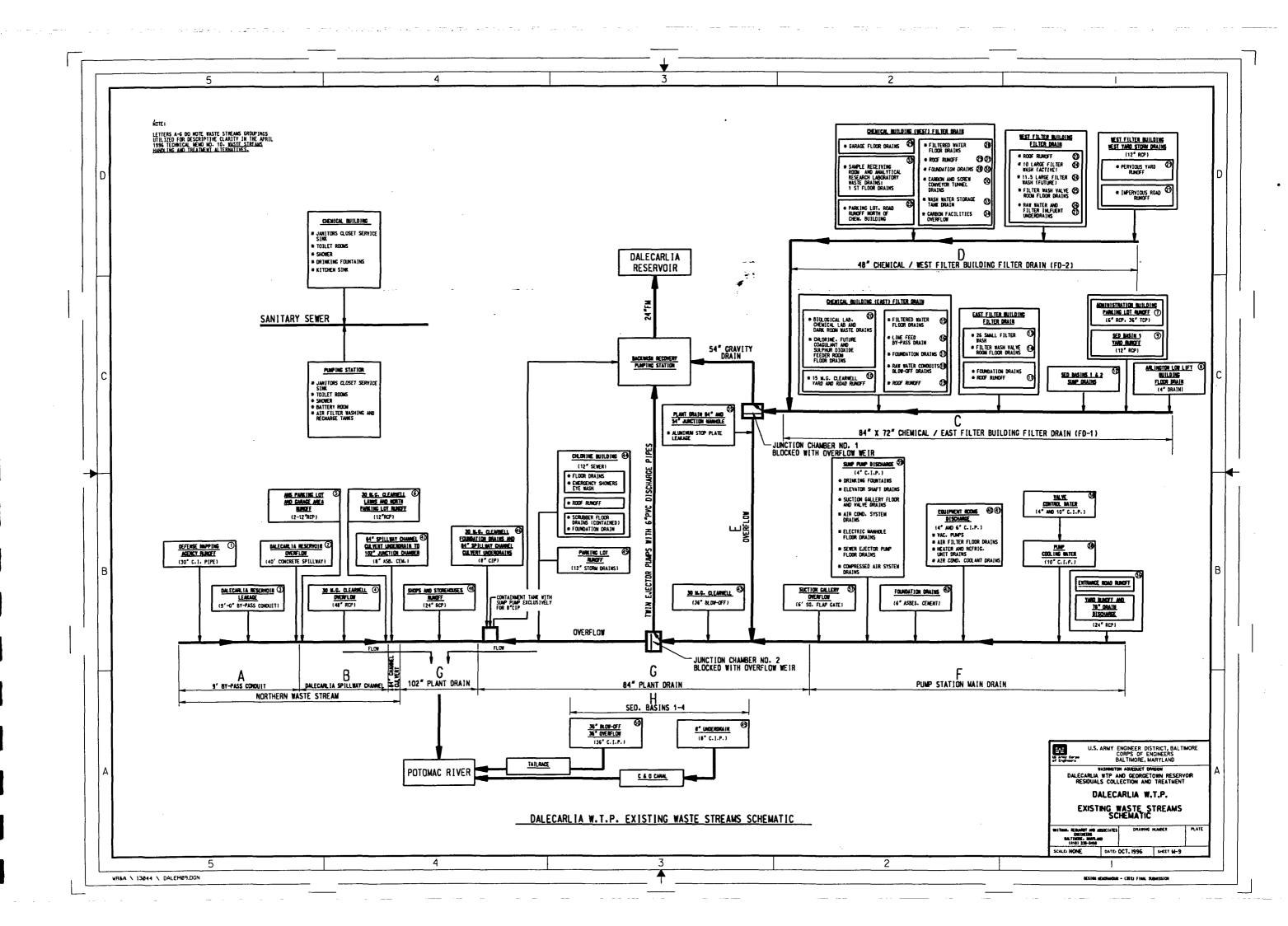


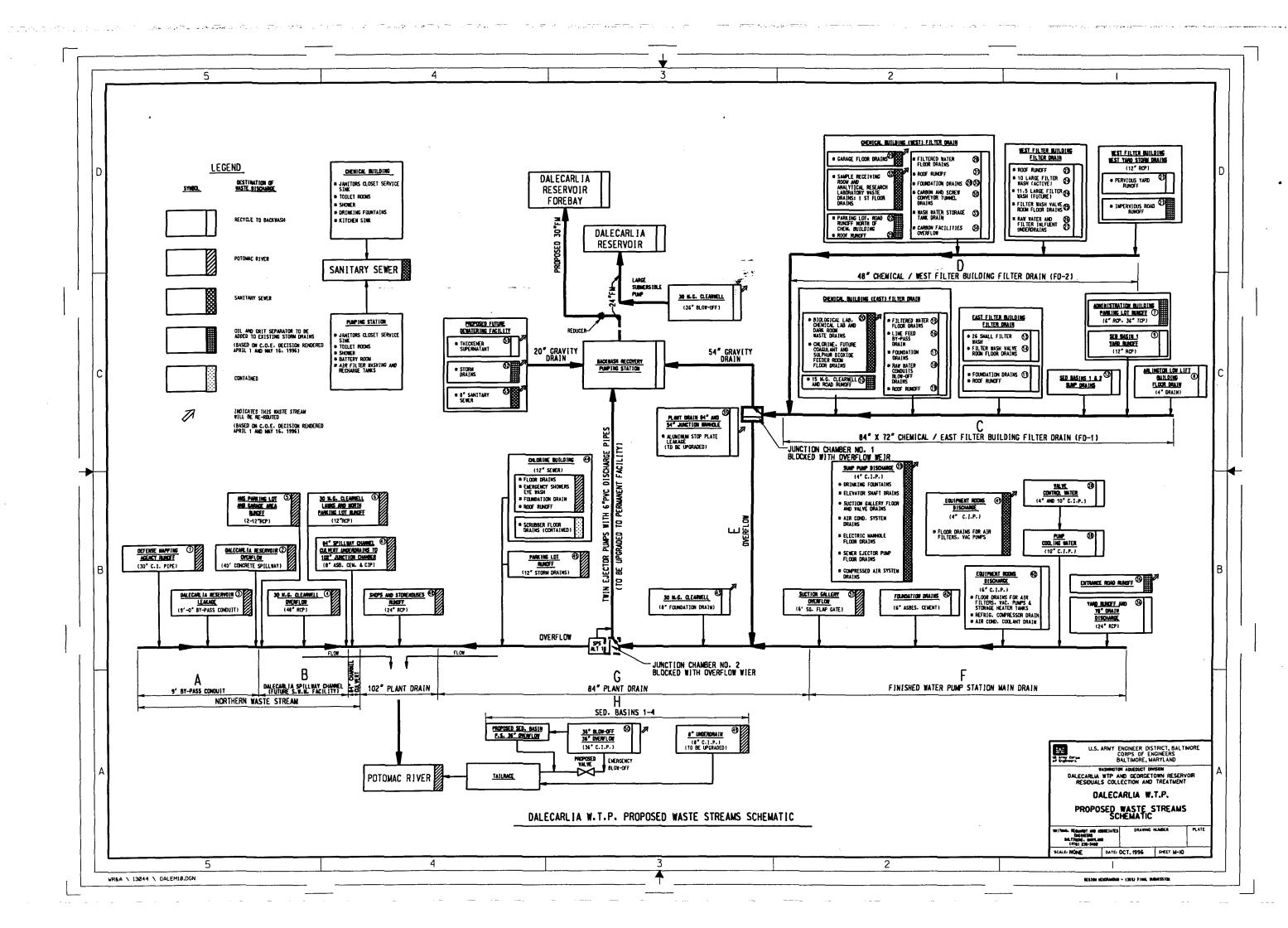


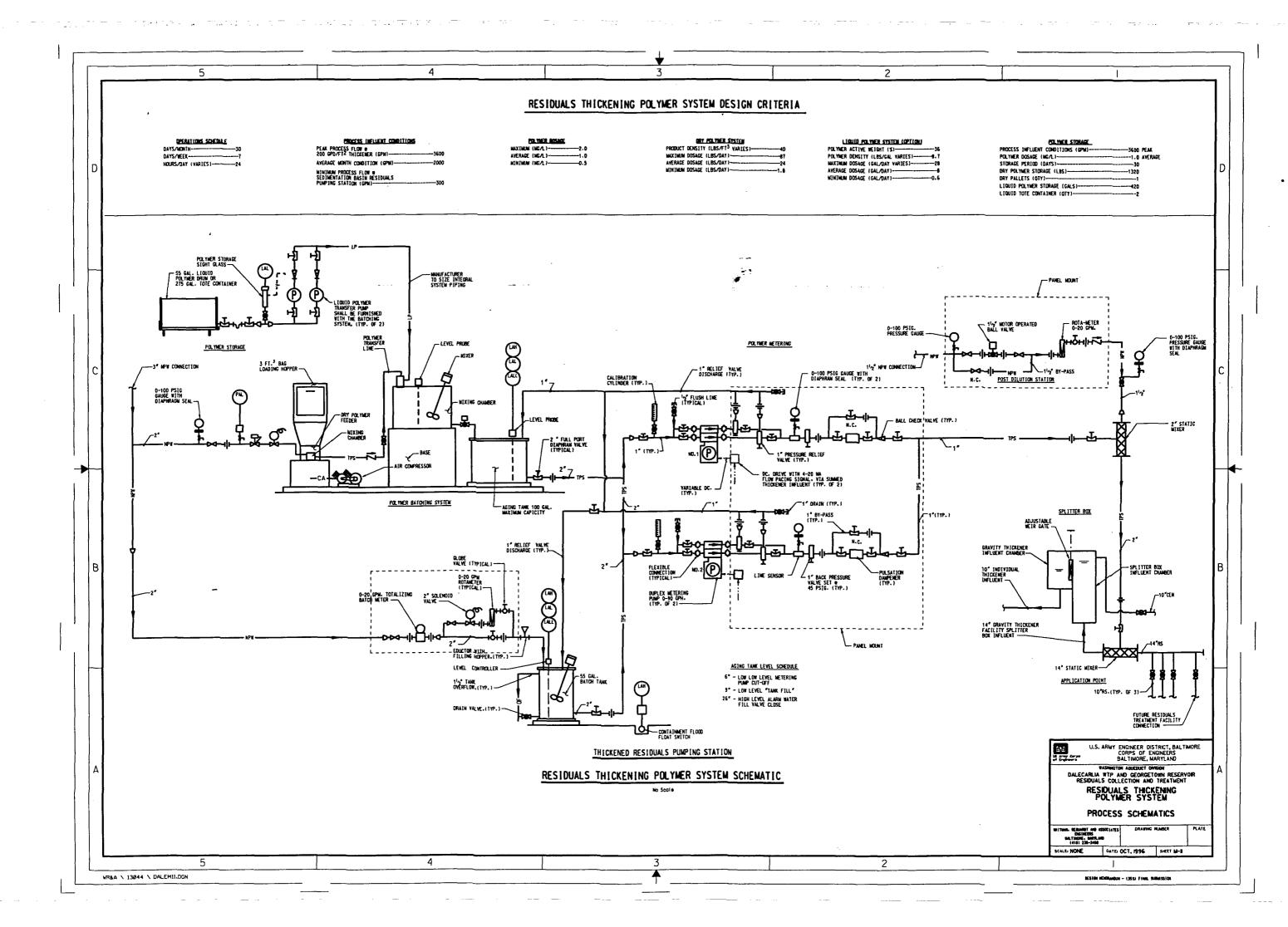


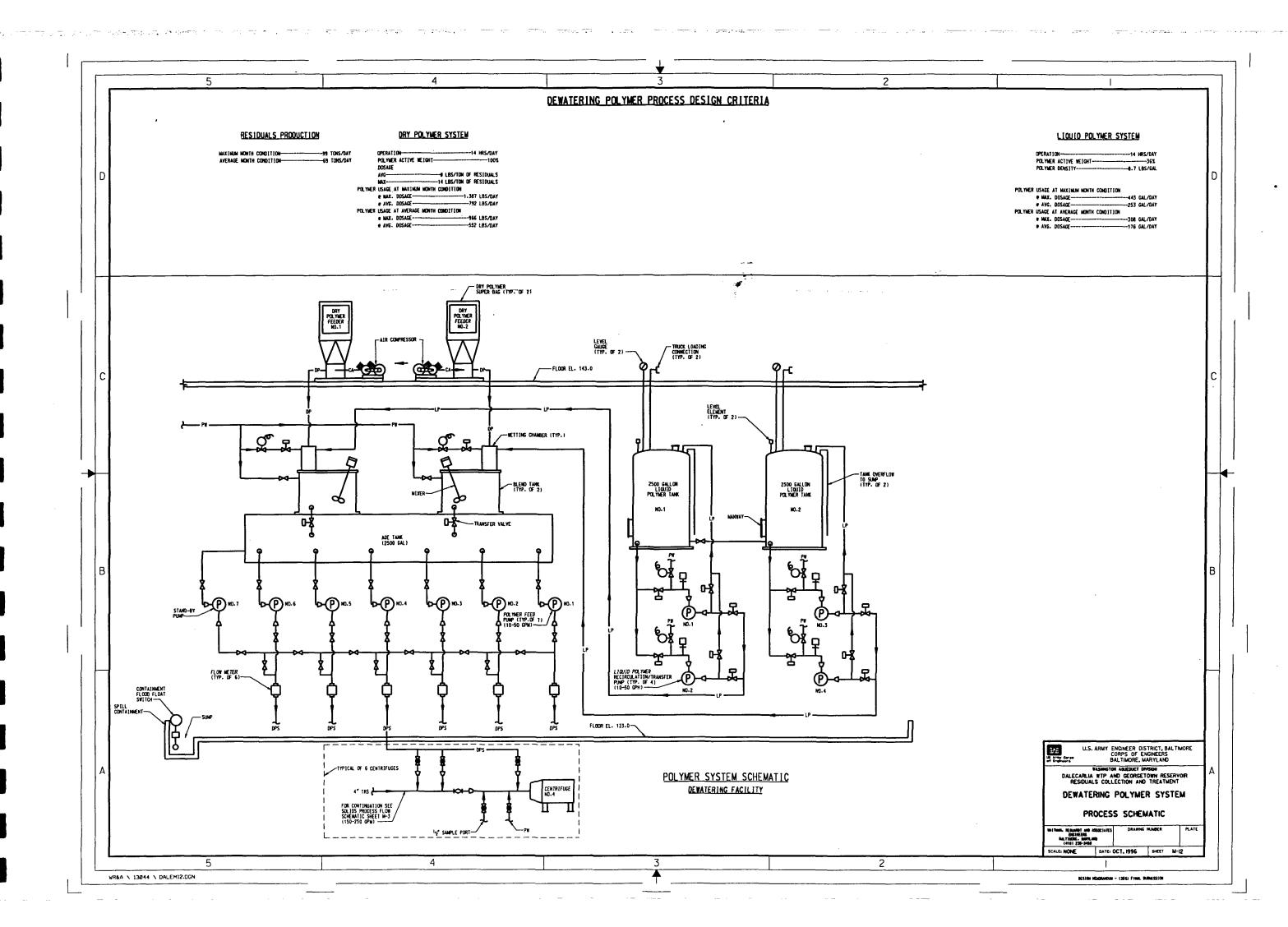


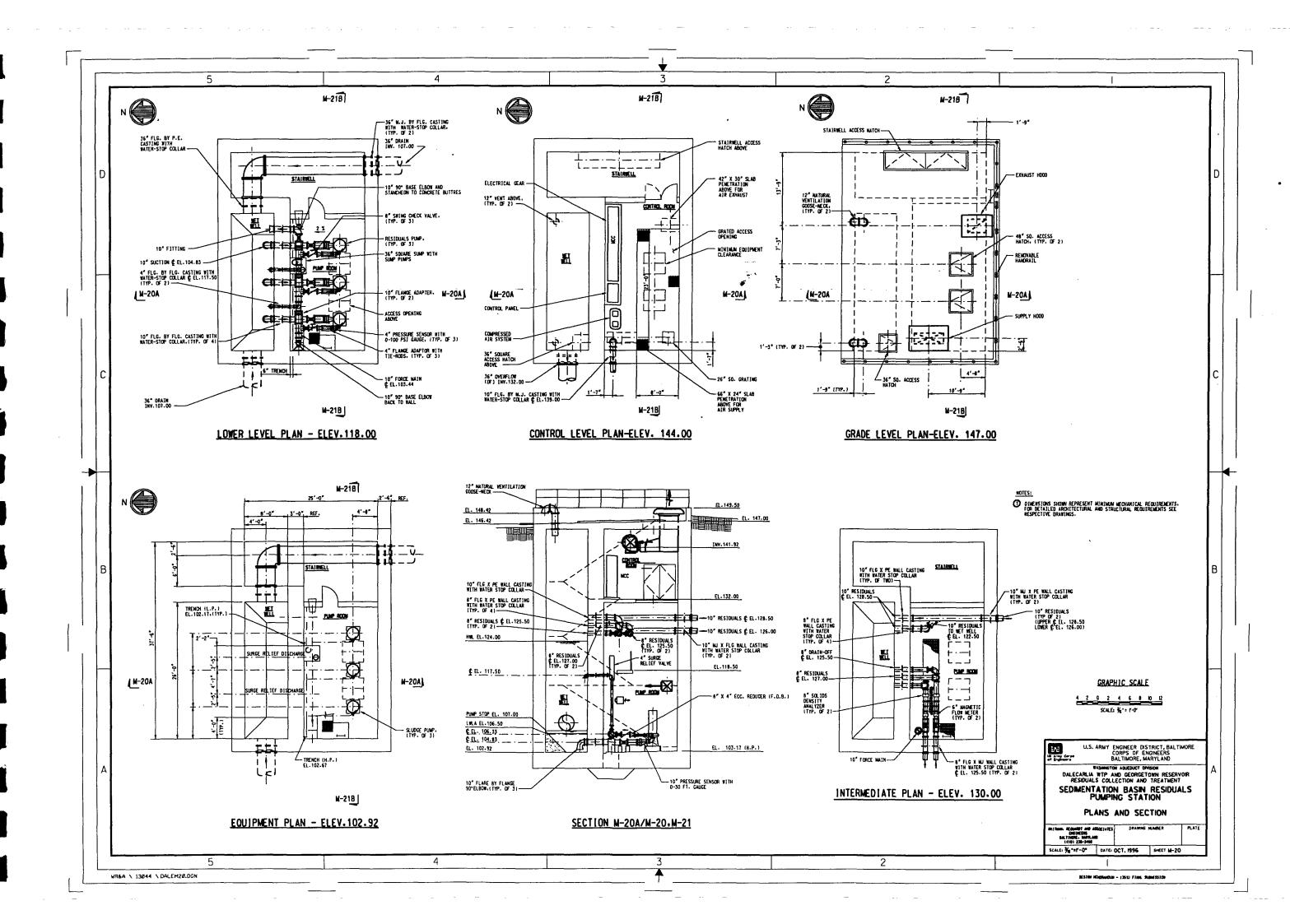


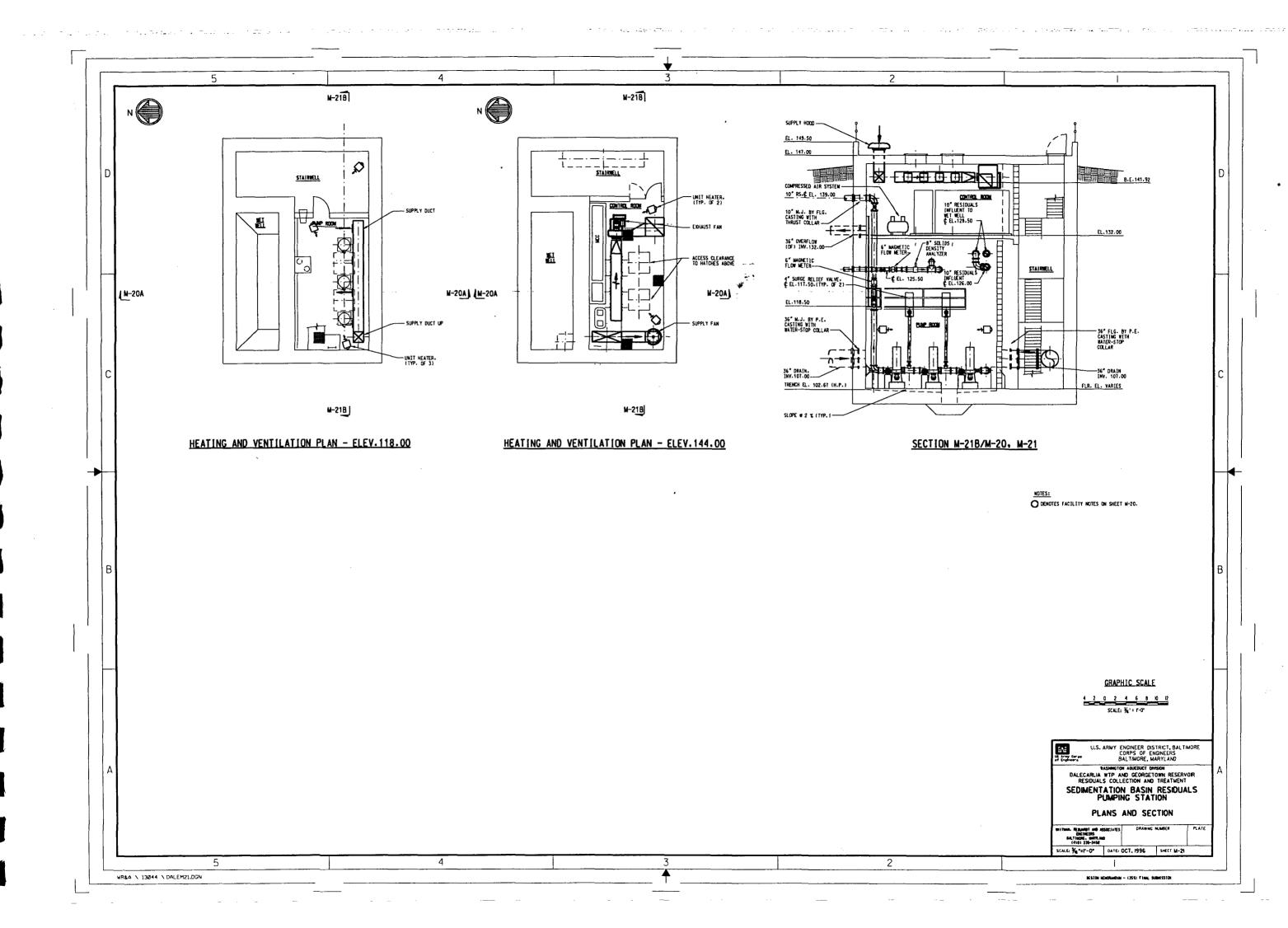


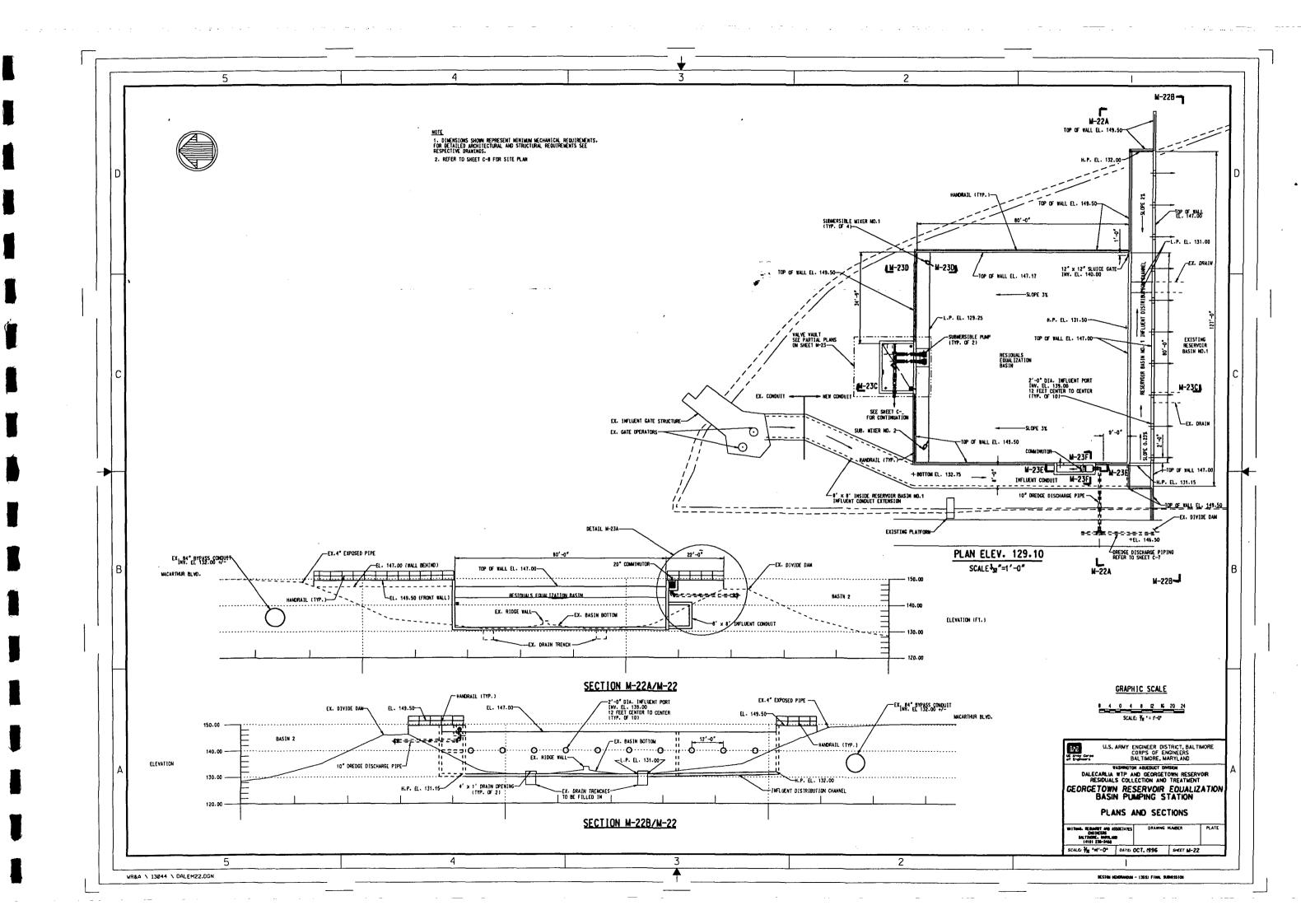


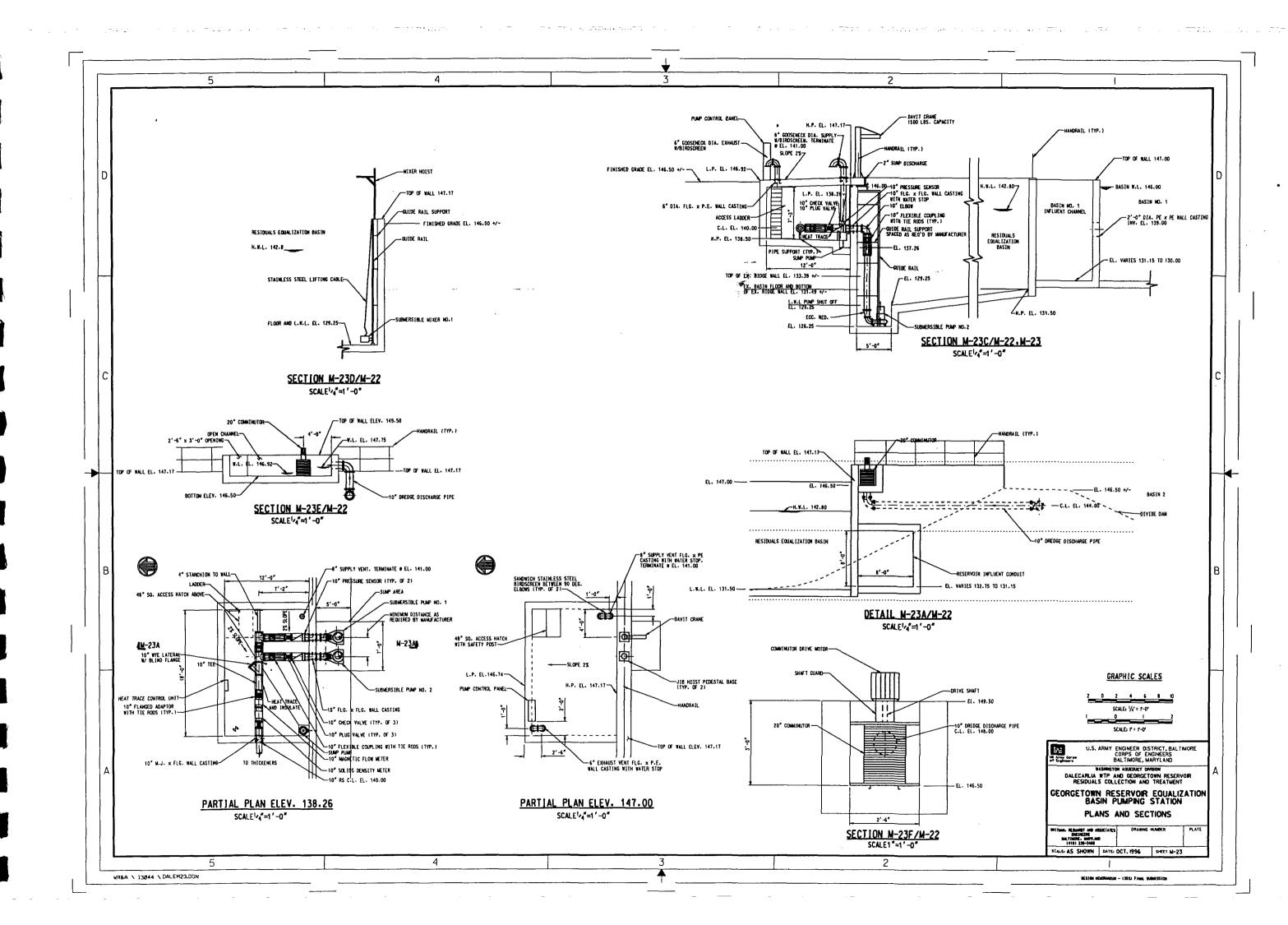


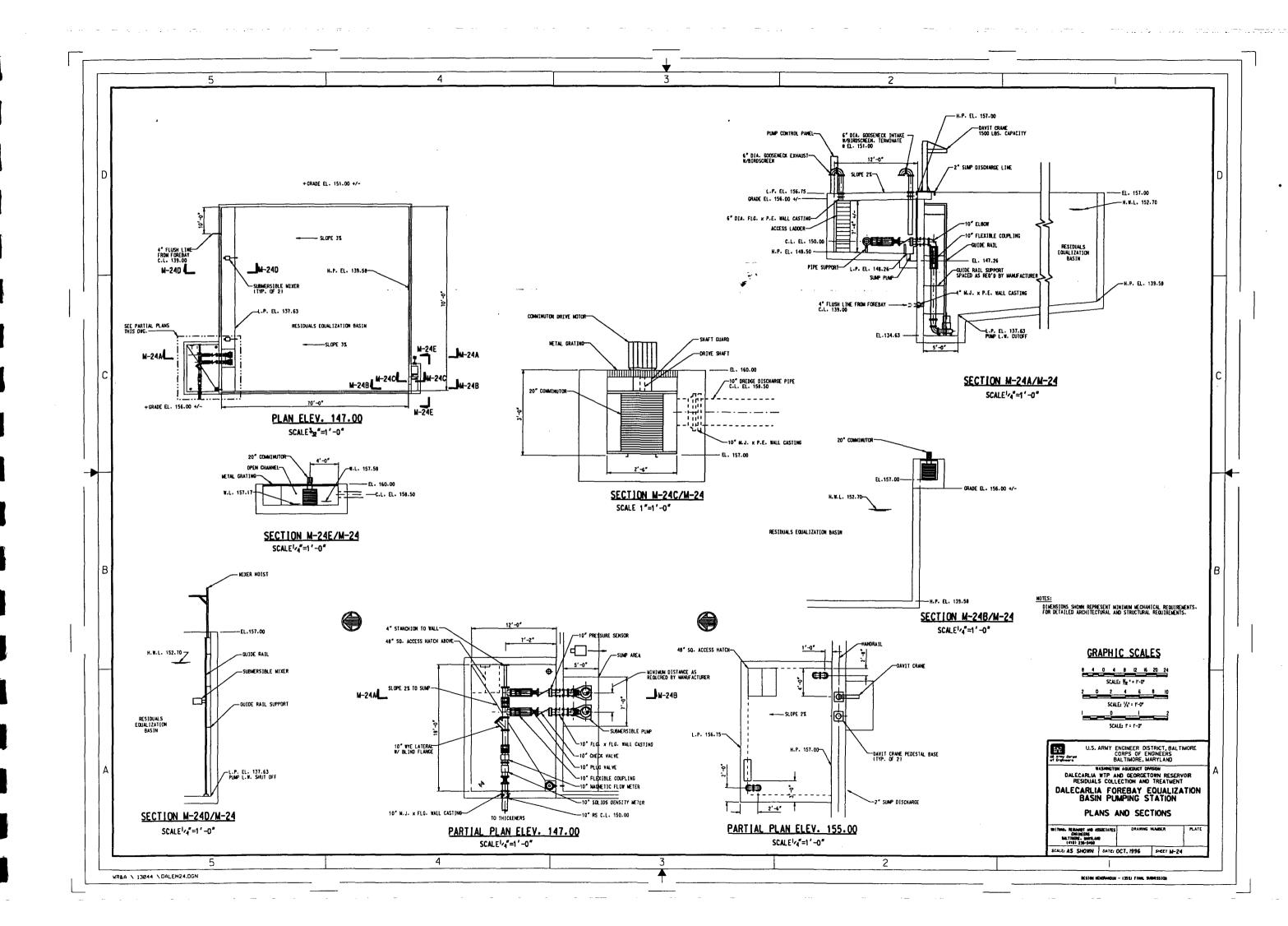


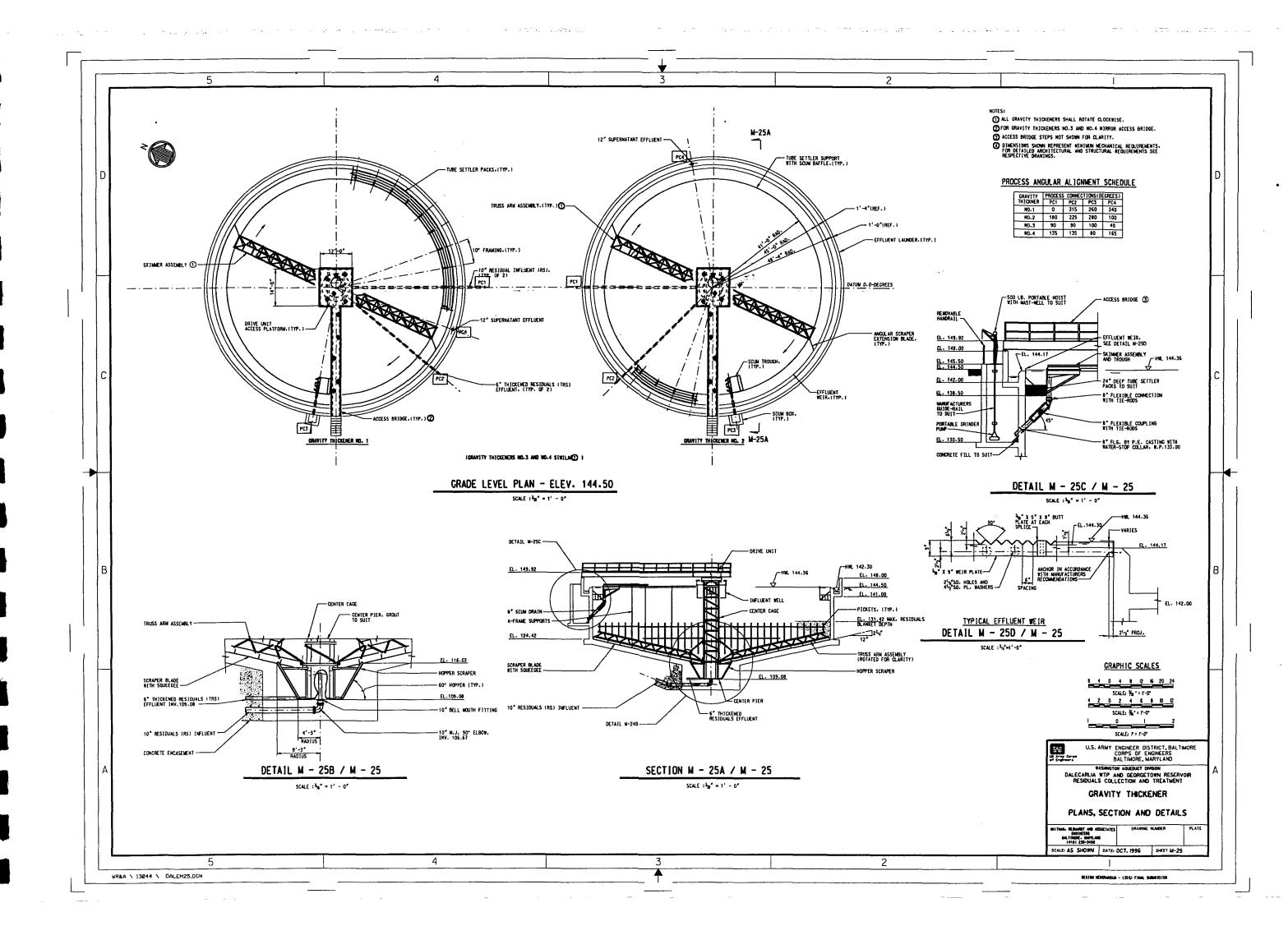


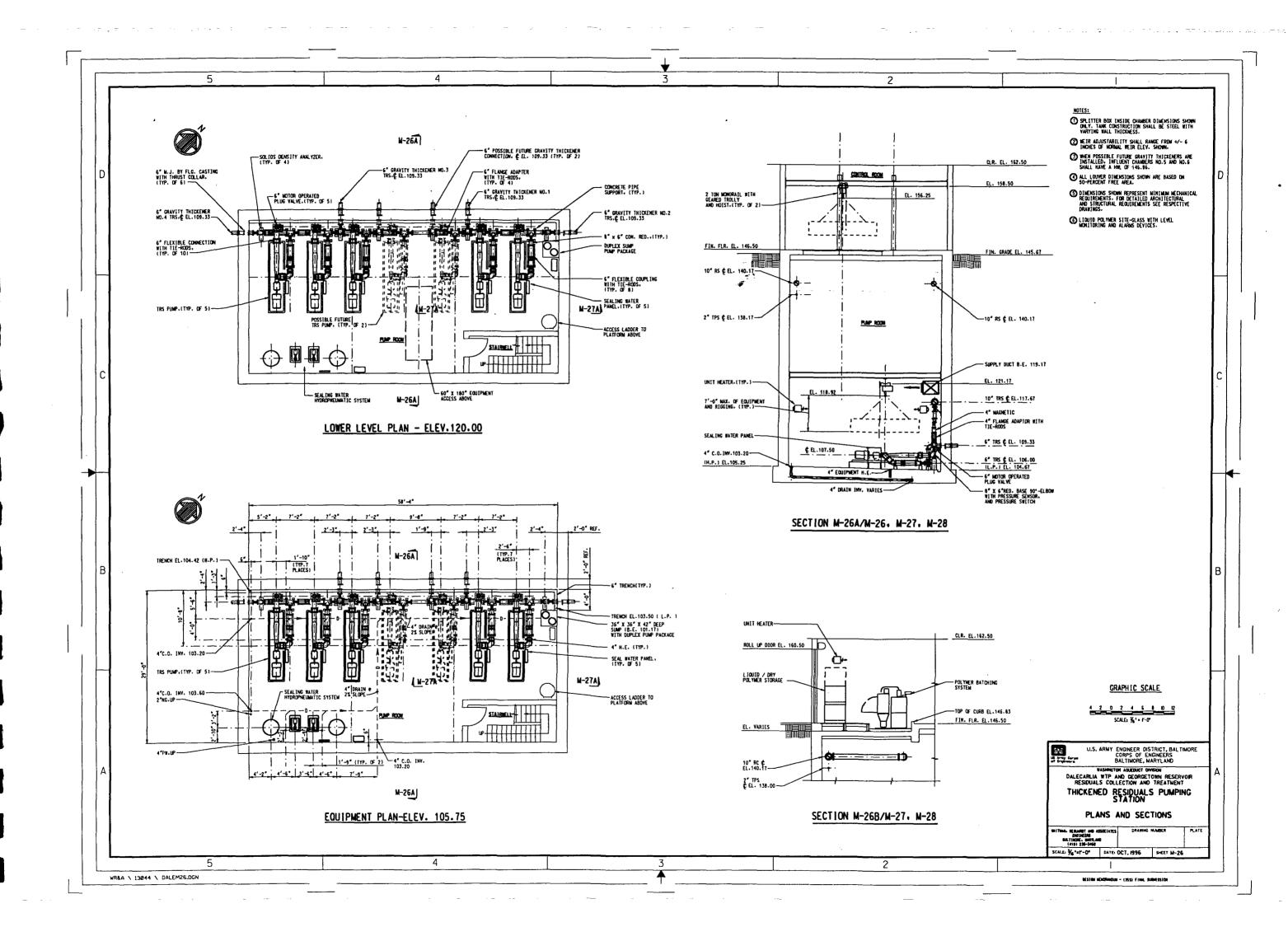


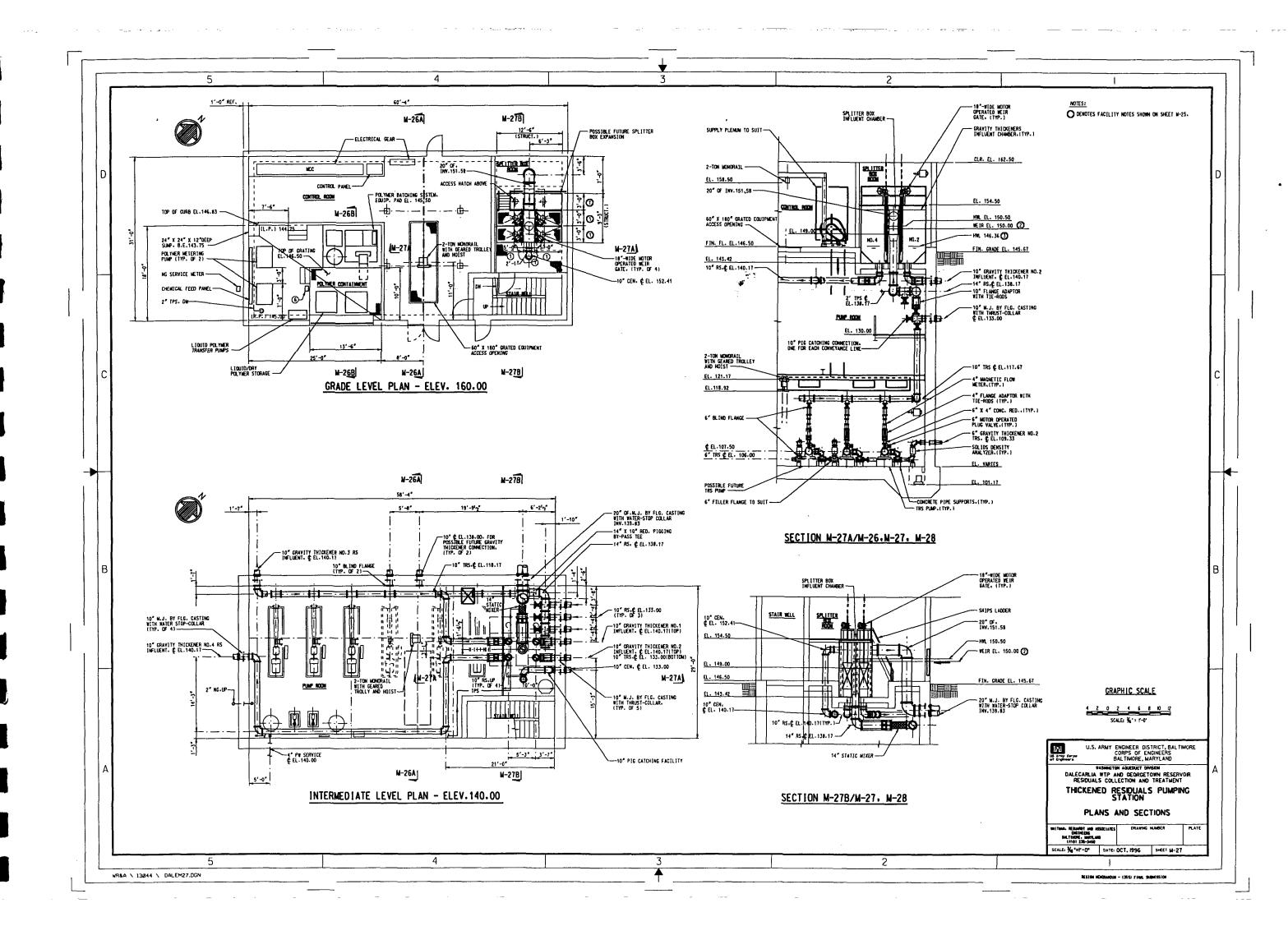


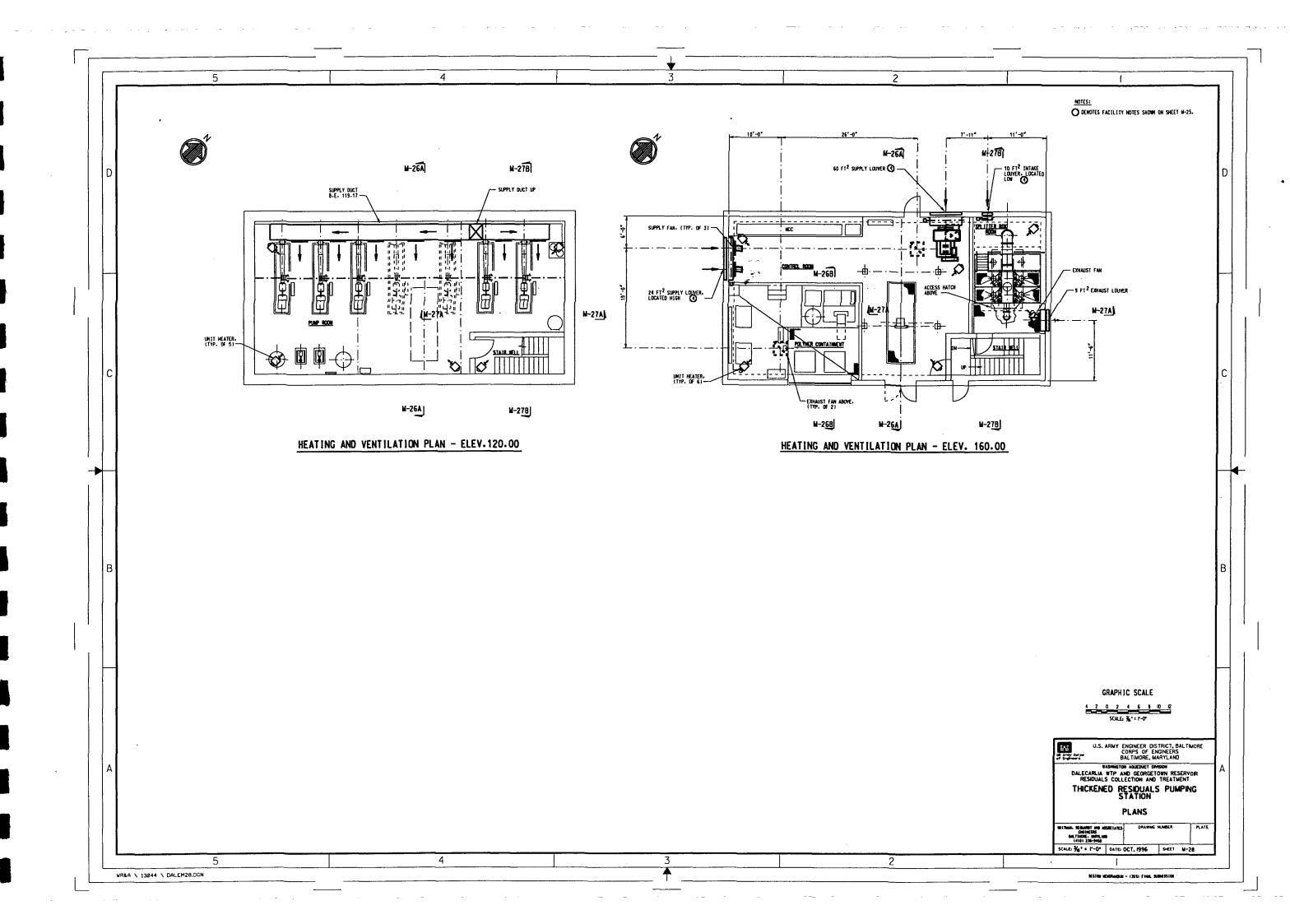


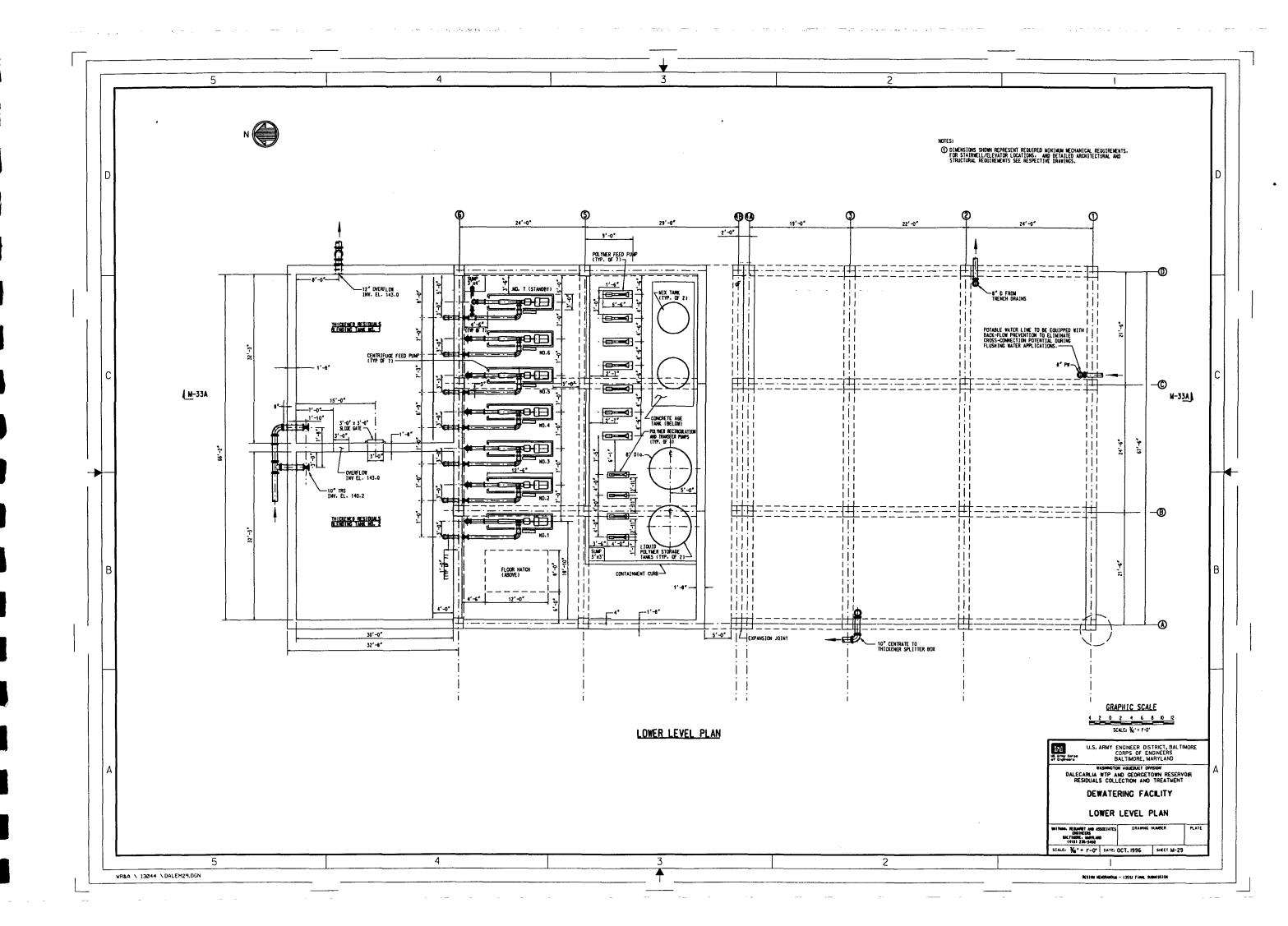


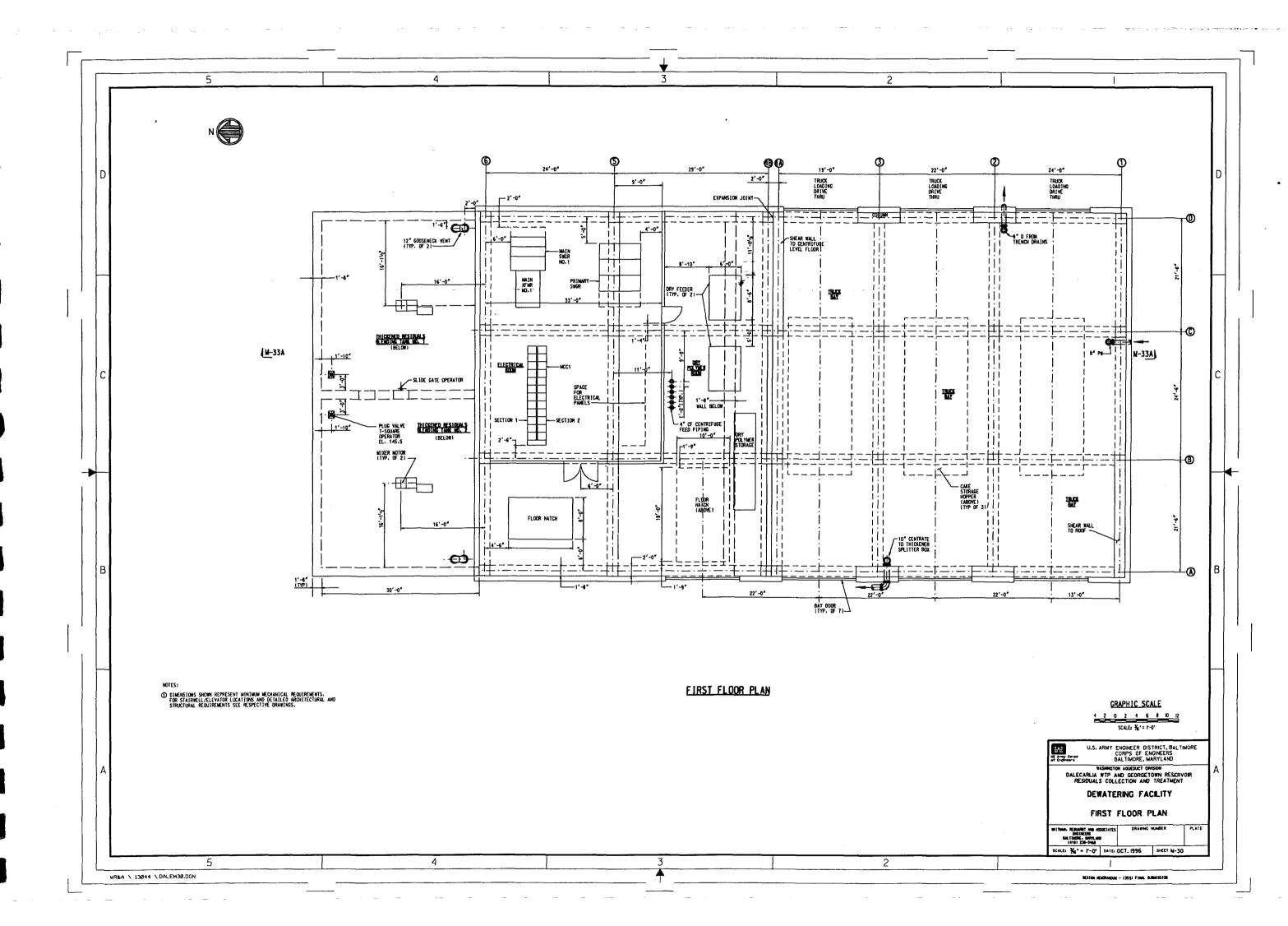


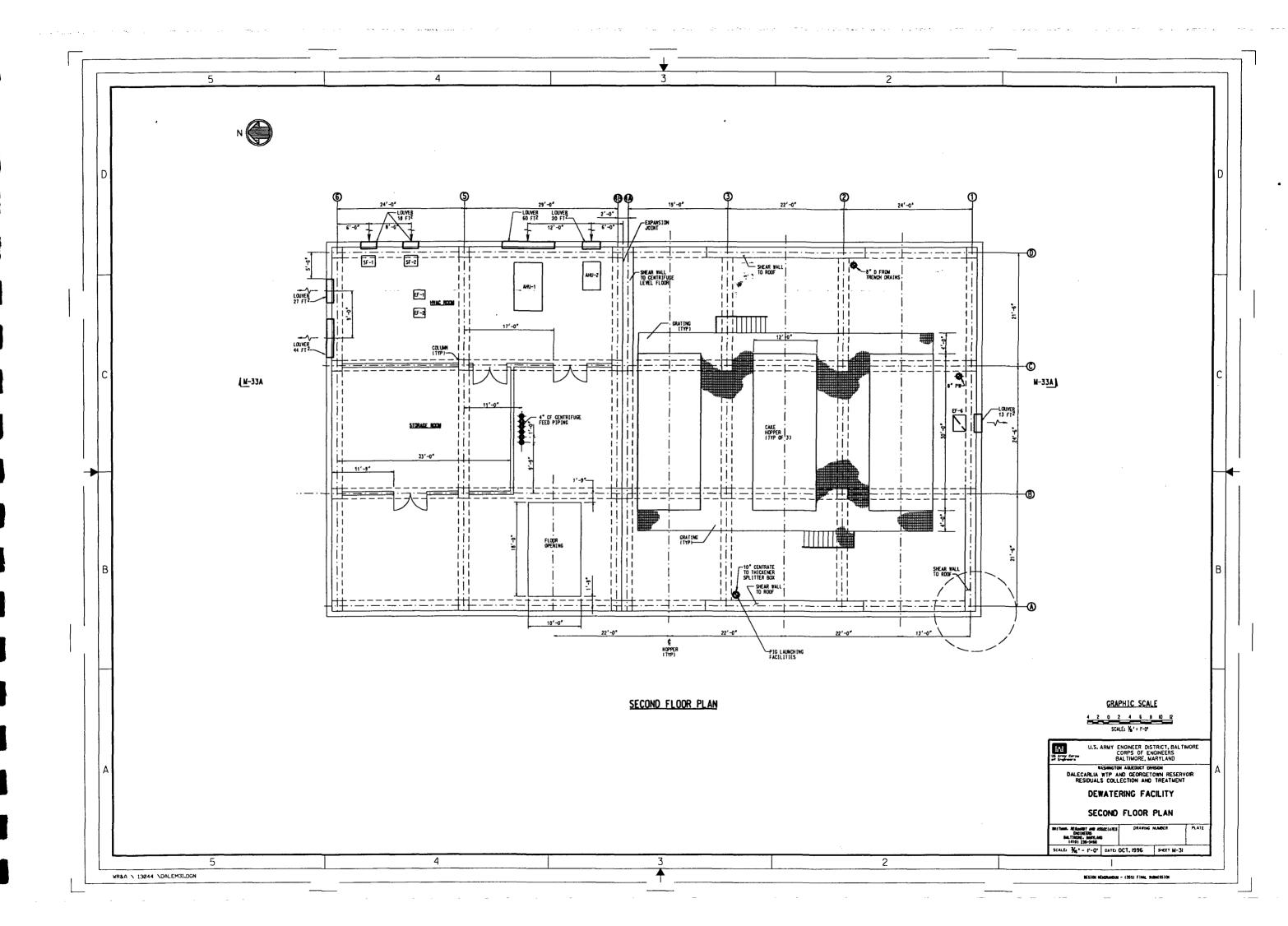


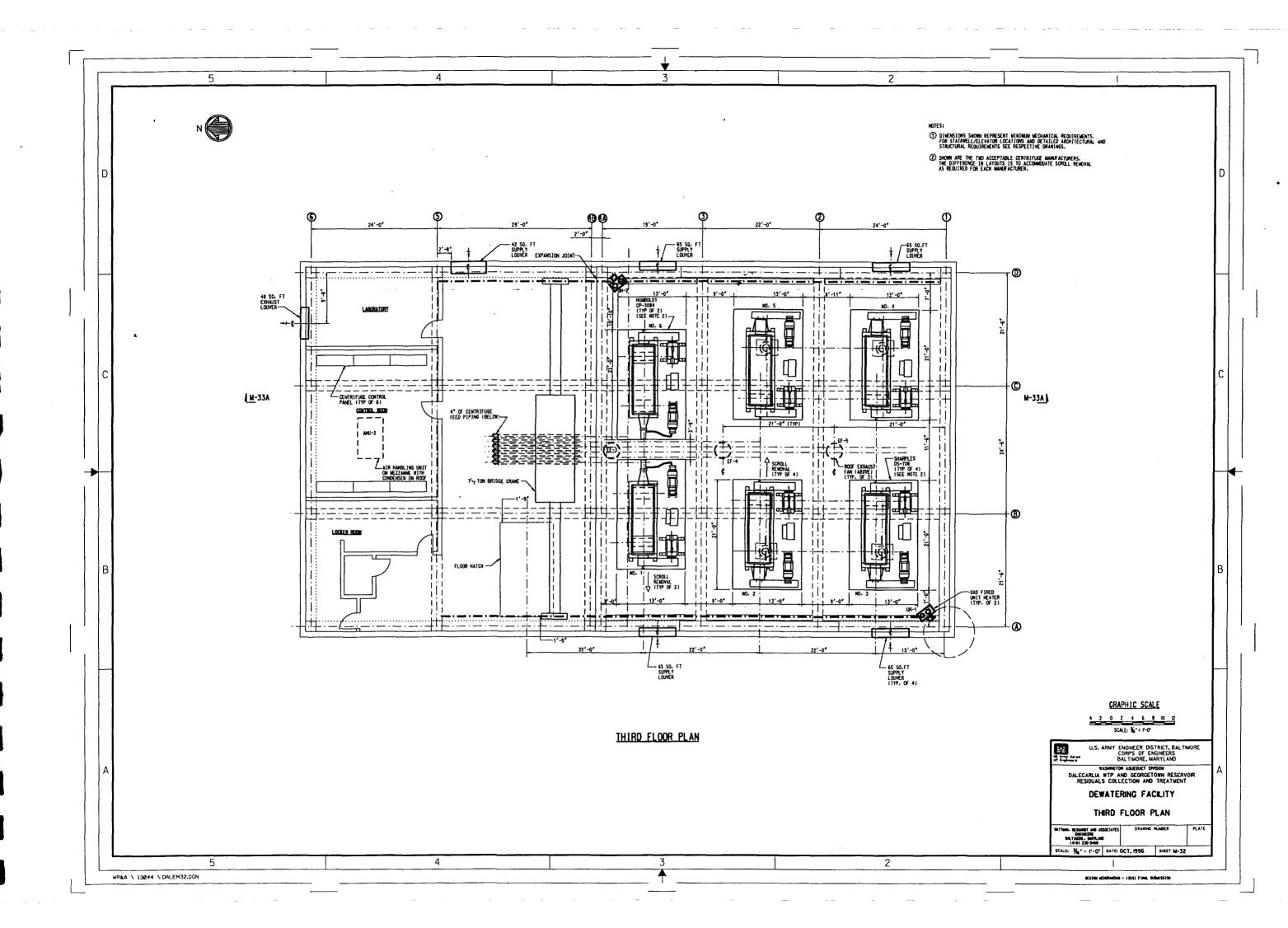


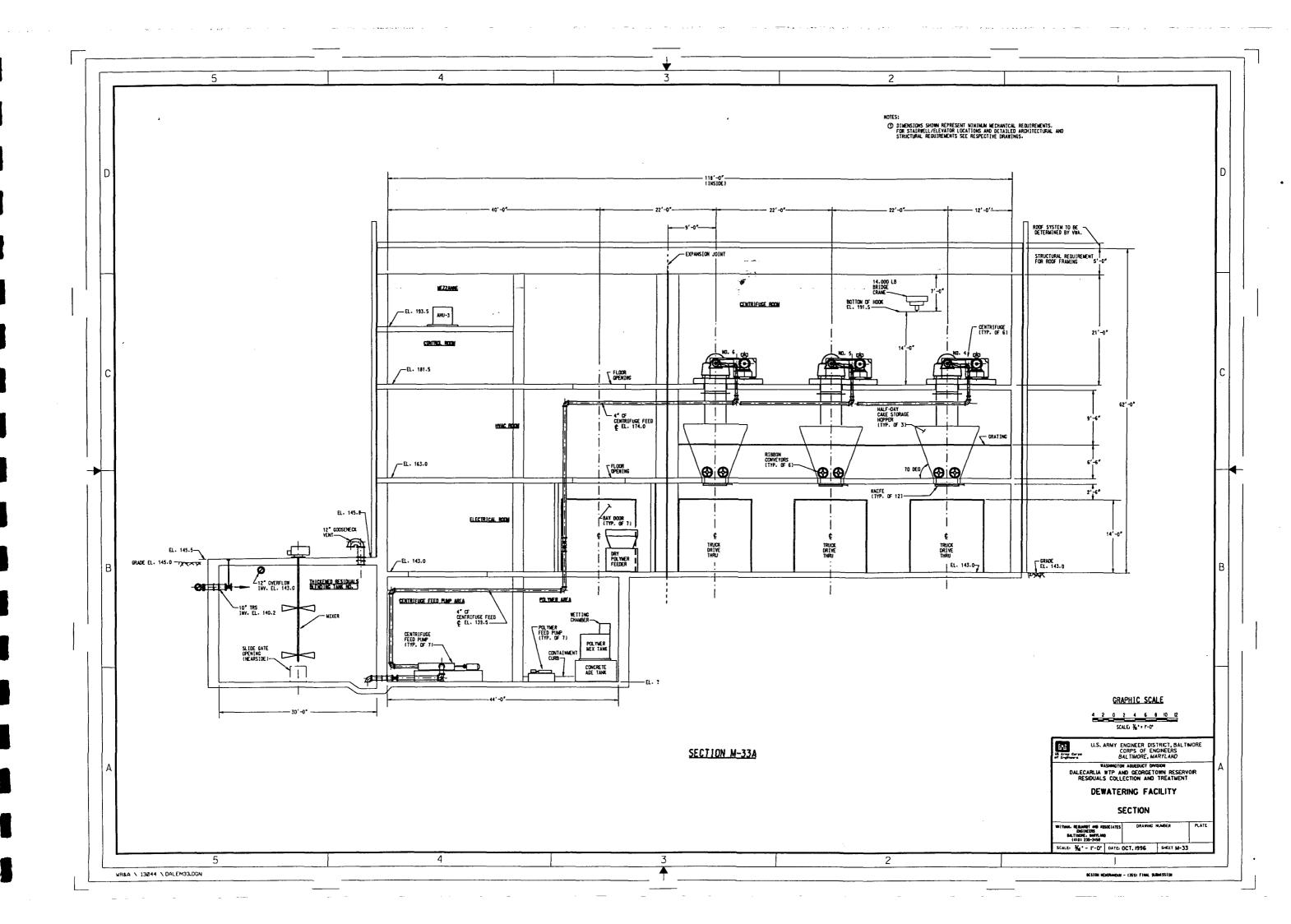


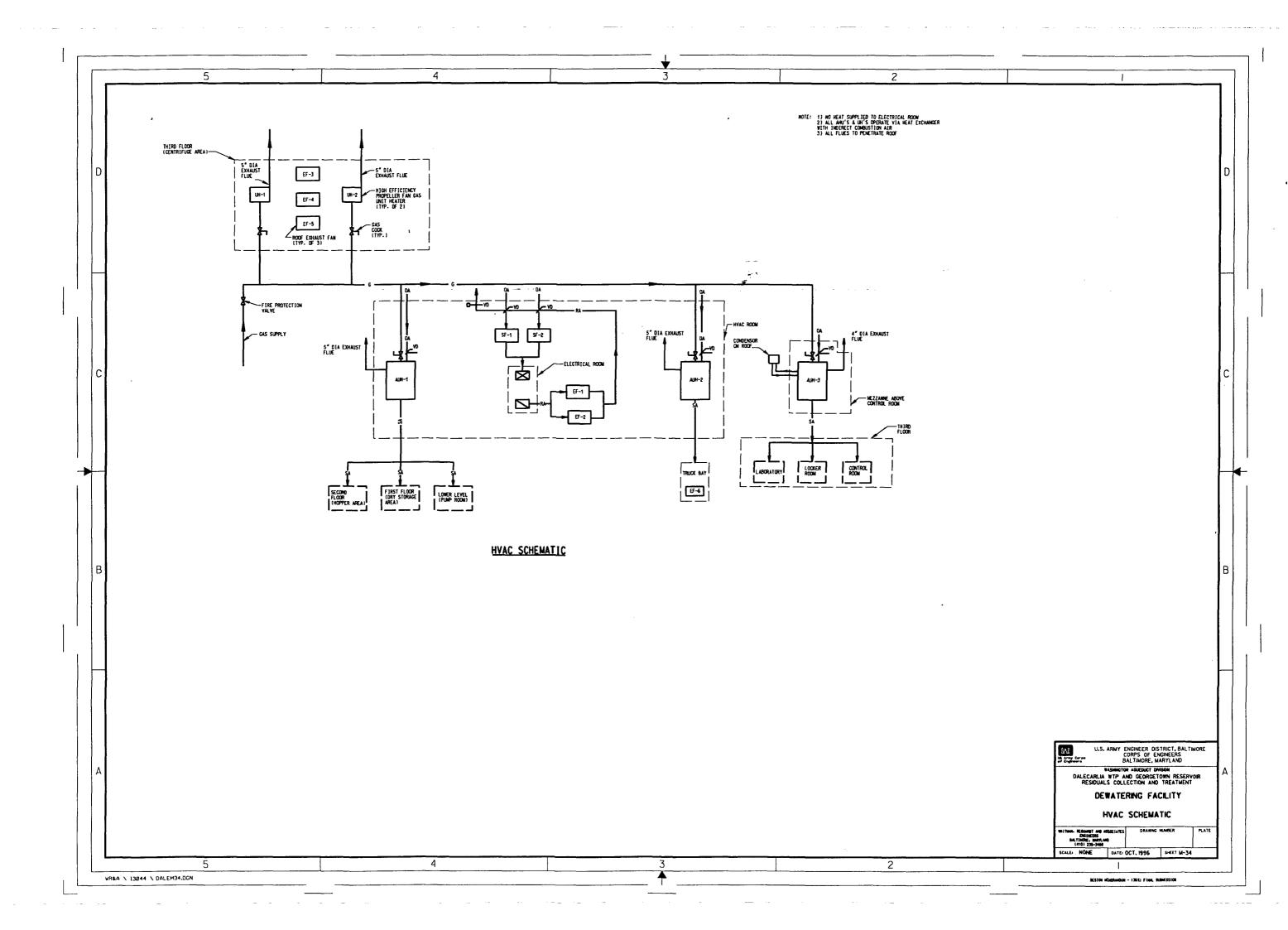


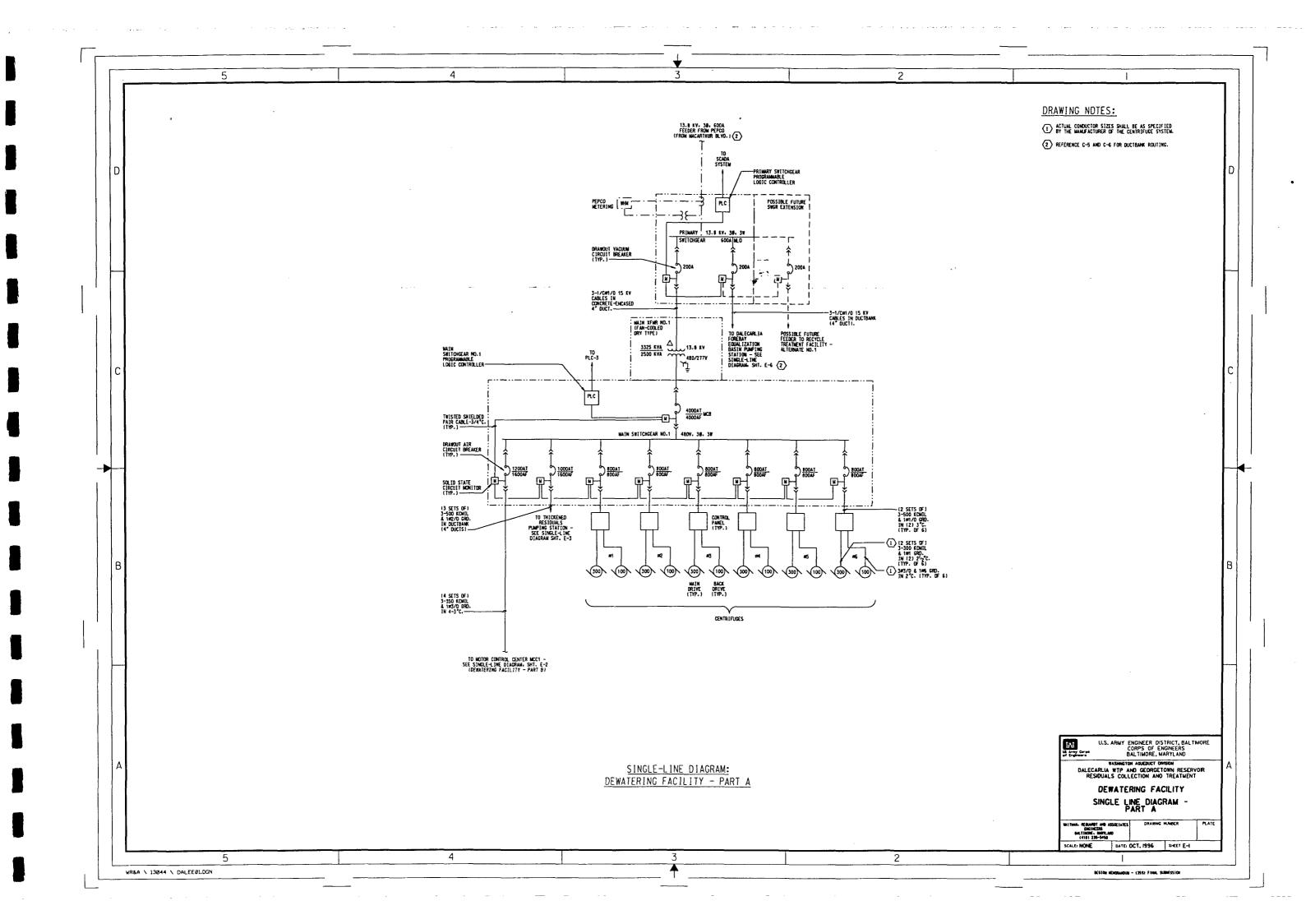


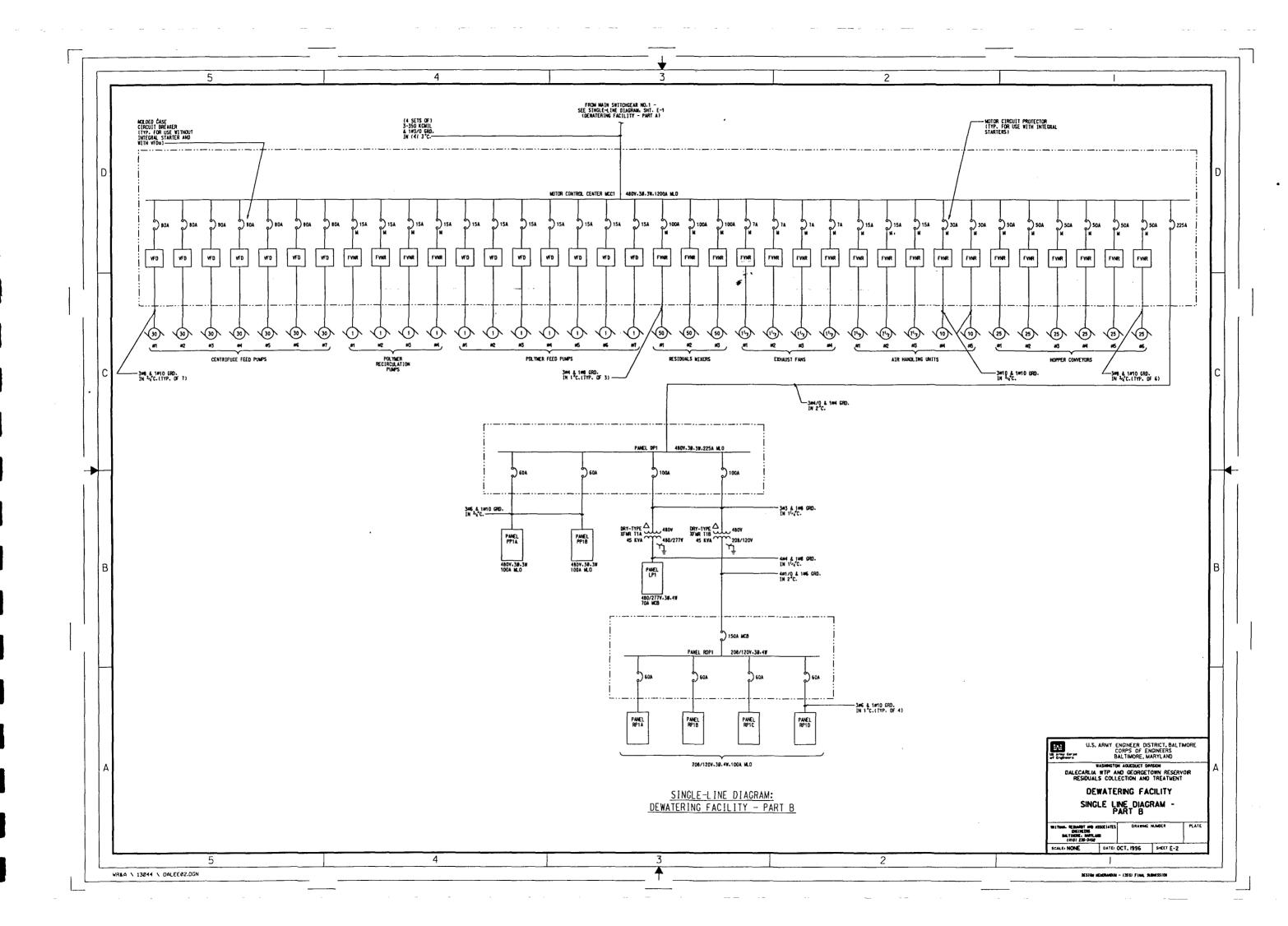


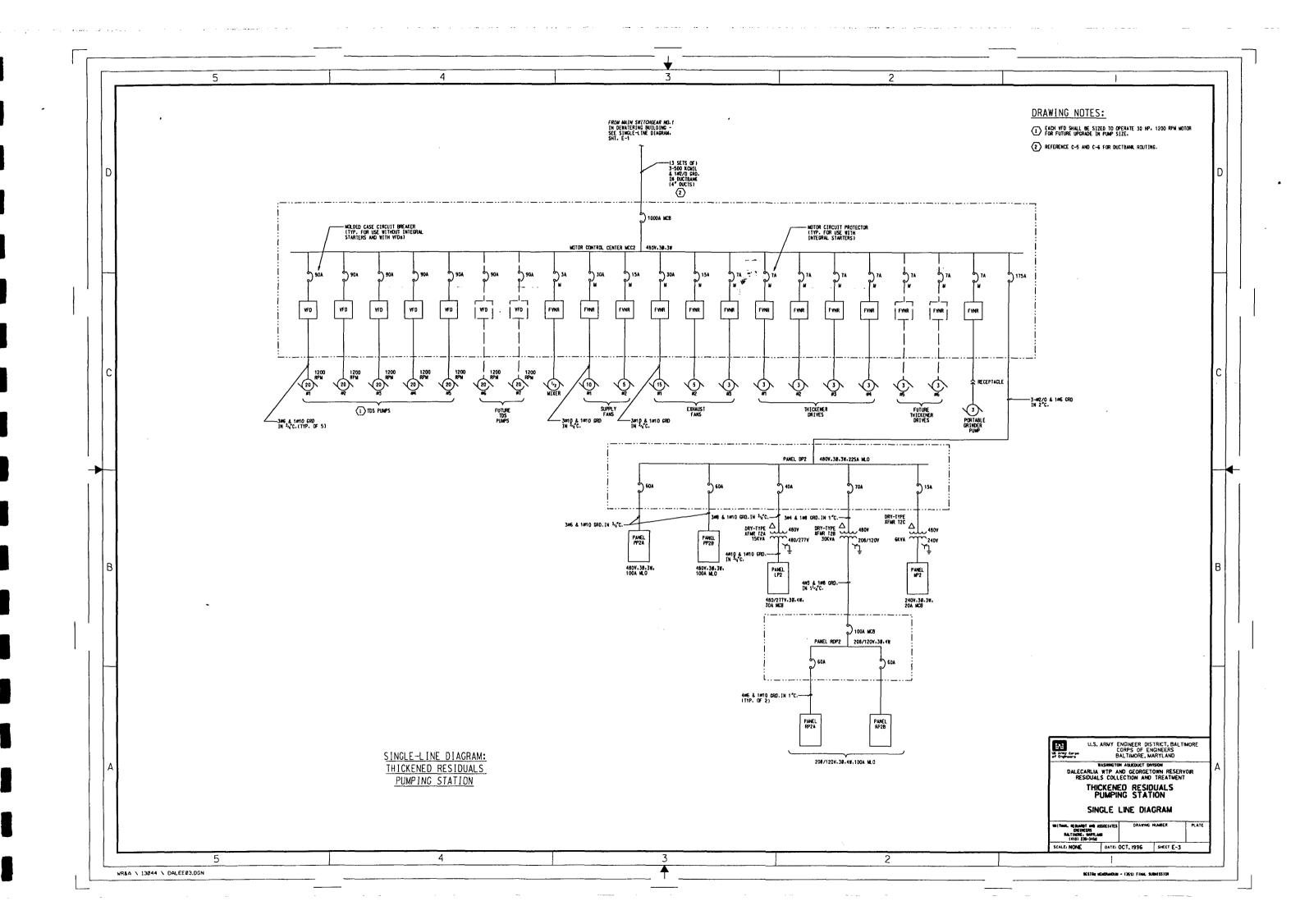


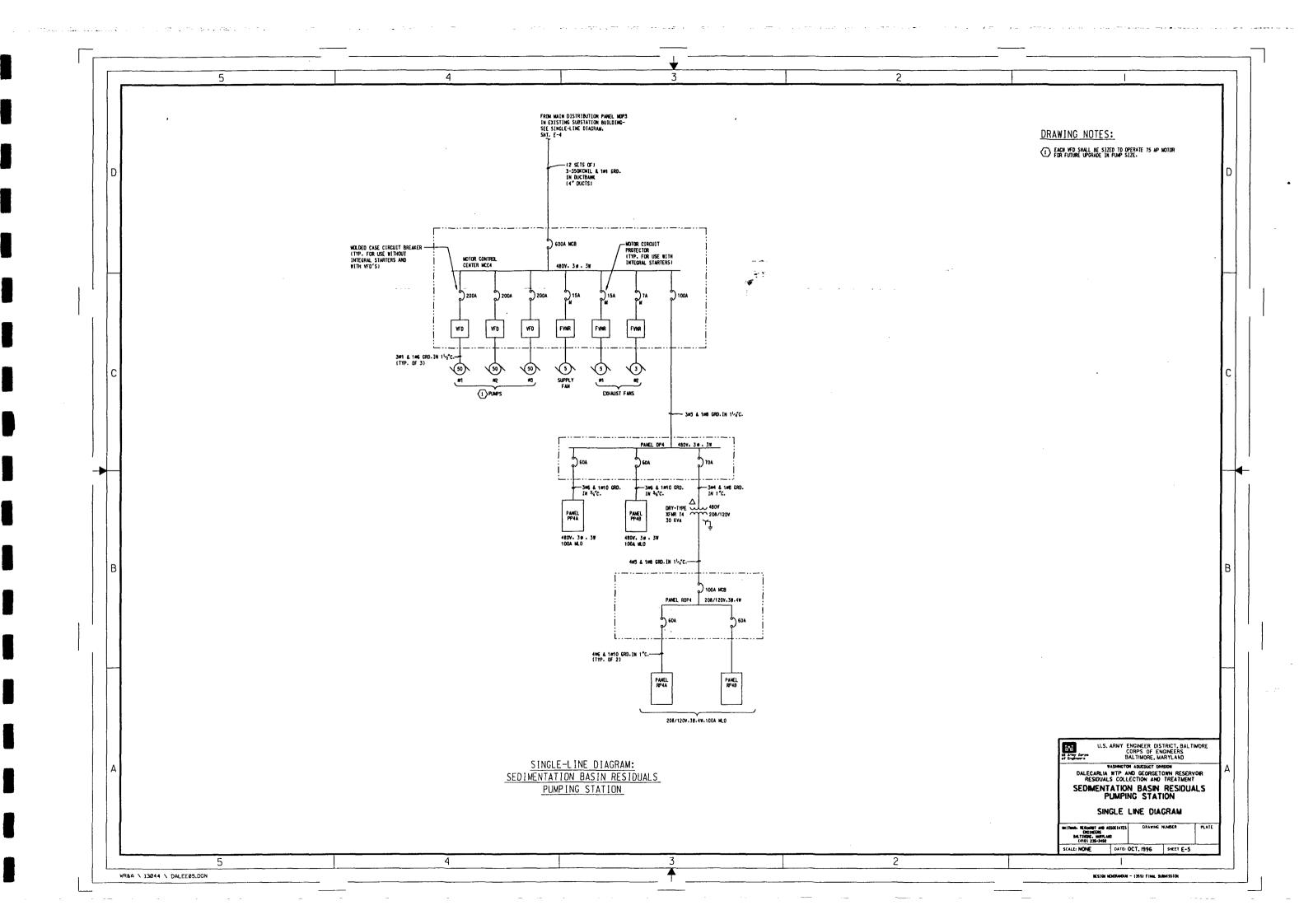


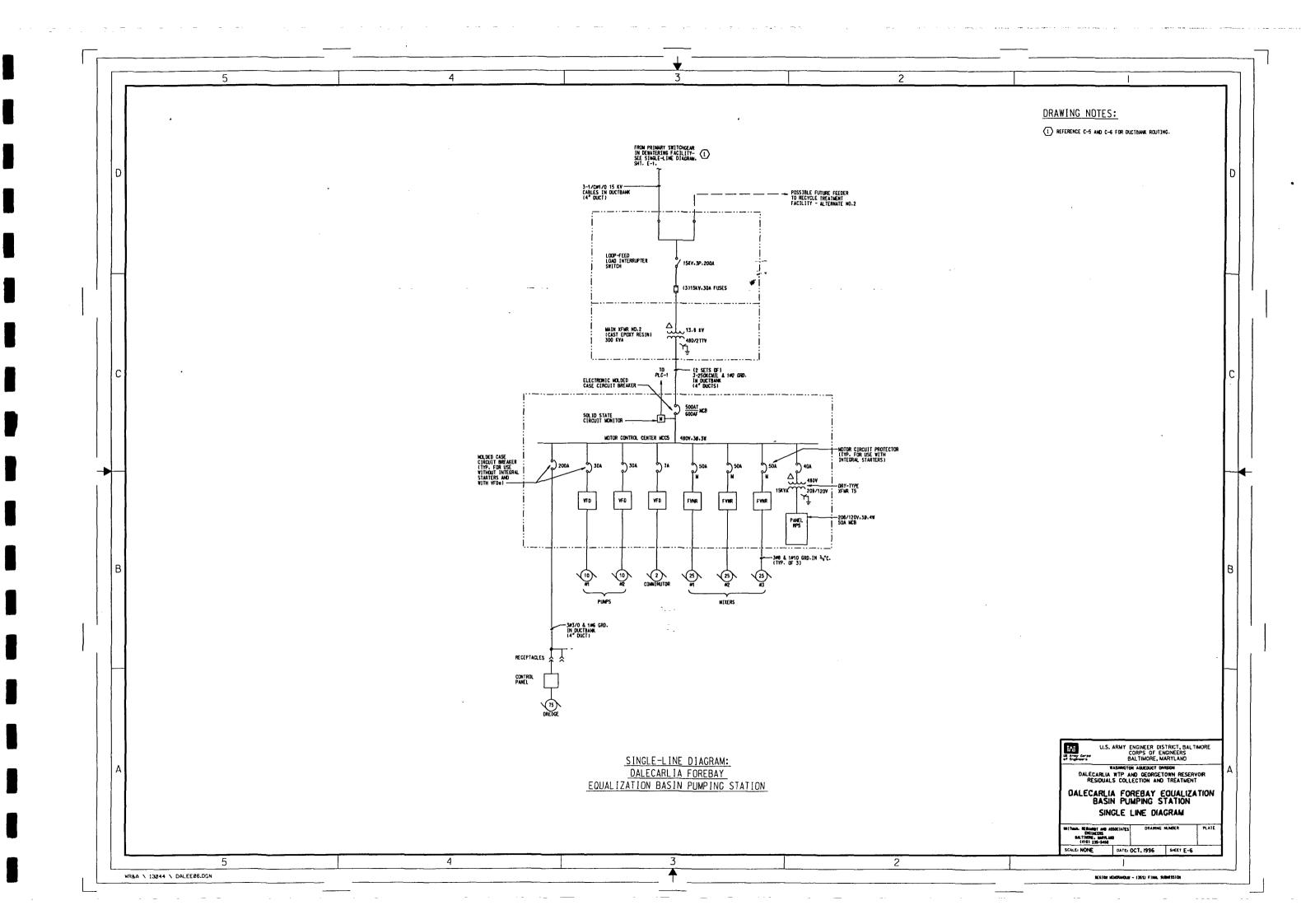


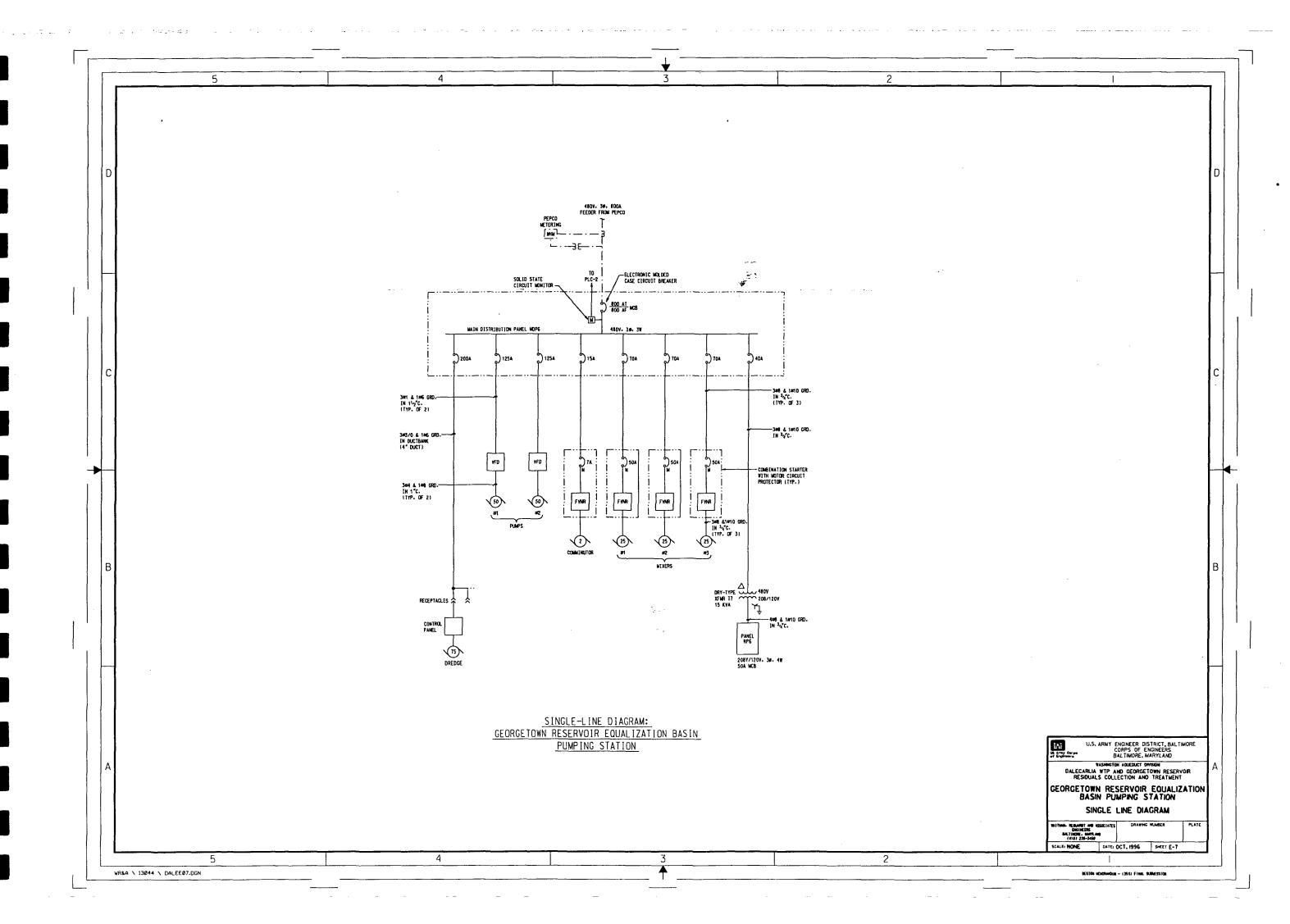


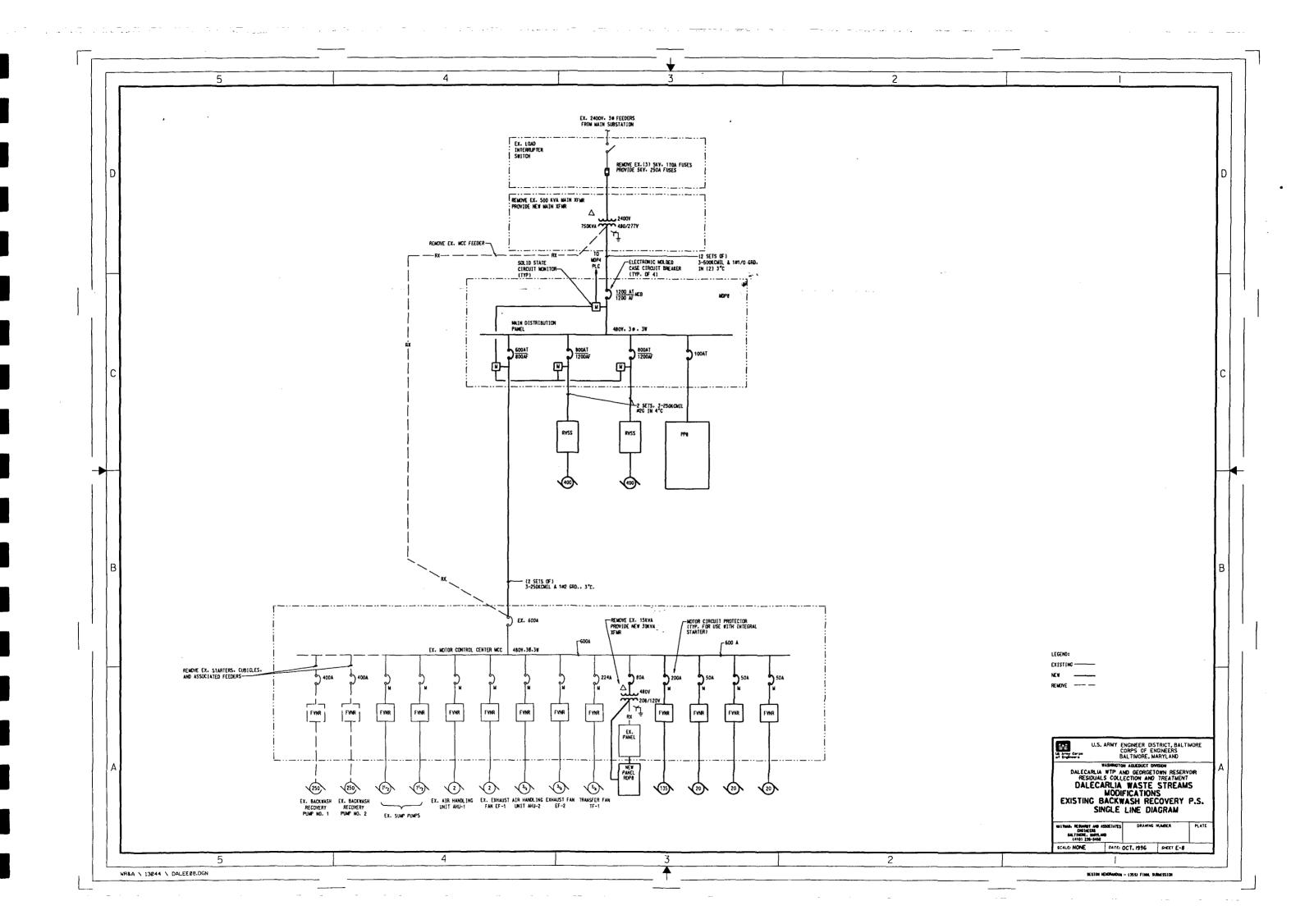












	 	· · · · · -	 	
<b>T</b>				
— ≘				
	 	<u></u>	 	- —

