

## ENGINEERING CHANGE NOTICE

<b>Project:</b> Former Satralloy Site Slag Removal Interim Action	<b>ECN No.:</b> 005				
<b>Project No.:</b> US0033555.9828	<b>Date:</b> 10/31/2025				
<b>Engineering Change Notice Name:</b> North Mill Building Area Grading Revision	<b>Contract No.:</b> 35862100006-001				
<b>Project Feature:</b> Plant Area Final Grading, Plant Area Drainage and Revegetation, Constructed Wetland Outlet					
<b>Affected Documents:</b> Design Drawing Sheets 401-403, 601, 611 and 711					
<p><b>Description of Change:</b> Using survey data of the existing concrete pad elevations, the final grading surface in the vicinity of the Former North Mill Building was updated to include a minimum 2-foot-thick layer of clean soil fill over the existing concrete pads while generally maintaining the original proposed drainage pattern. The resulting changes are presented in Design Drawings Revision 4 - North Mill Building Area Grading Revision and include the following:</p> <ul style="list-style-type: none"> <li>• The final grading surface was updated to cover existing concrete pads with a minimum 2-foot-thick layer of clean soil fill (Sheets 401-403 and 601).</li> <li>• MW-08 shall be maintained (Sheet 402).</li> <li>• The final grading surface was updated to tie into and/or maintain functionality of existing stormwater system features, especially those draining to the wetland near stormwater sampling location SW-12.</li> <li>• Existing catch basins that will be graded over with soil, will be covered with pre-cast concrete covers that are a minimum 6-inches thick.</li> <li>• Extents of the native grass mix seeding area were updated to include the areas where existing concrete pads and counterfort walls will be covered with clean soil fill (Sheet 601).</li> <li>• The final grading surface profiles were updated in Sections OO, PP, and QQ to cover existing concrete pads with a minimum 2-foot-thick layer of clean soil fill (Sheet 611).</li> <li>• The wetland outlet detail was updated to add a 1-foot-wide section of clean soil fill between the limestone rock and armor rock and raise the sill elevation to 689.4 ft (Sheet 711).</li> </ul>					
<p>Where providing compaction in accordance with the specifications is not feasible, boulders may be used as backfill behind the North Mill Building foundation wall and at other locations as approved by the WSP Construction Manager. To the extent practical, clean soil fill shall be placed in conjunction with the boulders to minimize void space.</p>					
<p>The table below summarizes the changes to quantity estimates resulting from the changes described above. Note that the quantities for clean soil fill amendment (Bid Item Numbers 4.1.2 and 4.1.3) were also revised to reflect the revised amendment depth of 1 foot across the final grading surface of slag removal areas.</p>					
Bid Form Item Number	Bid Form Item Name	Units	Initial Estimate	Revised Estimate	Change
2	SLAG CONSOLIDATION				
2.7	Slag Removal and Placement in Consolidated Stockpile				
2.7.9	Excavate and Haul Mill Floor Soil	bcy	5,209	1,963	-3,246
2.7.10	Spread and Compact Slag and Mill Floor Soil in Consolidated SP	ecy	1,737,876	1,734,306	-3,571
4	RESTORATION OF SLAG REMOVAL AREAS				
4.1	Backfill and Grading				
4.1.1	Load Clean Soil Fill, Haul, and Spread	ecy	390,873	506,038	115,164

## ENGINEERING CHANGE NOTICE

Bid Form Item Number	Bid Form Item Name	Units	Initial Estimate	Revised Estimate	Change	
4.1.2	Amend Clean Soil Fill with Limestone	ecy	390,873	17,606	-373,267	
4.1.3	Compact Amended Clean Soil Fill	ecy	390,873	17,606	-373,267	
4.1.4	Fine Grading	sy	514,492	528,189	13,697	
4.1.5	Load Vegetative Soil, Haul, and Spread on Backfill Area	cy	85,749	88,032	2,283	
4.1.6	Amend Clean Soil Fill with Limestone	cy	78,664	80,947	2,283	
4.1.7	Vegetative Soil Amendment	sy	471,982	485,680	13,697	
4.2	Revegetation					
4.2.1	Seeding - Milkweed, Native Wildflower and Native Grass Seed Mix	ac	106.3	109.1	2.8	
4.2.2	Erosion and Sediment Control Mat	sy	82,924	83,687	762	
4.4	Drainage Features					
4.4.1	Grass-Lined Swale	lf	2,952	2,988	36	

RECON shall correspond directly with WSP Construction Management and CAMC Project Management with any cost or schedule impacts as a result of this ECN.

**Justification for Change:** Originally, the floor between the two main concrete pads of the Former North Mill Building was thought to be composed of soil. The site investigation soil sampling results indicated contaminants of concern within the mill floor soil. Thus, this mill floor soil was proposed to be removed as part of the design. However, during soil excavation in this area, it was found to be underlain by intermittent concrete foundations with varied elevations.

The original proposed drainage pattern assumed that the mill soil floor would be removed, and adjacent concrete pads would remain exposed. However, due to the varied elevations of the concrete foundations found between the two main concrete pads, and because there is a surplus of clean soil fill coming from the Former Mine Area borrow areas, the grading was revised to have a minimum 2-foot-thick layer of clean soil fill over the existing concrete pads in the North Mill Building area while generally maintaining the original proposed drainage pattern.

Regarding the wetland outlet detail on Sheet 711, a clean soil fill “plug” was added between the limestone rock and armor rock to constrain water to drain from wetland at the sill design elevation rather than potentially flow through the rock at a lower elevation if sufficient fines are not present in the armor rock. The sill design elevation was raised from 698 ft to 698.4 ft to accommodate the wetland bottom elevation that was constructed higher than designed and to maintain a minimum depth of 6 inches of water within the wetland.

Significant Design Change – Regulatory approval of this ECN is required prior to construction  
 Insignificant Design Change – No regulatory approval is required

**Prepared by:** Vanessa Nancarrow, PE

## ENGINEERING CHANGE NOTICE

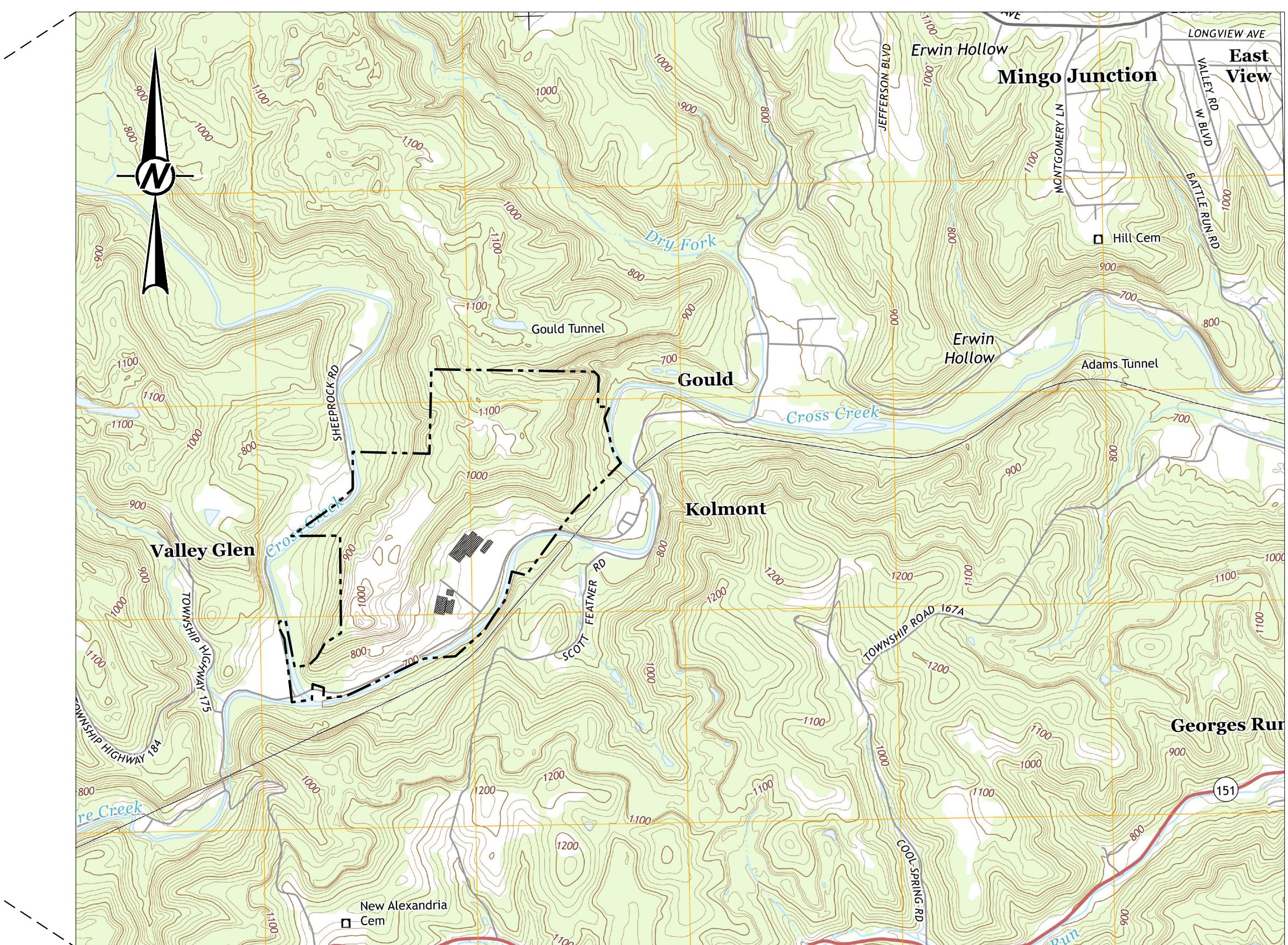
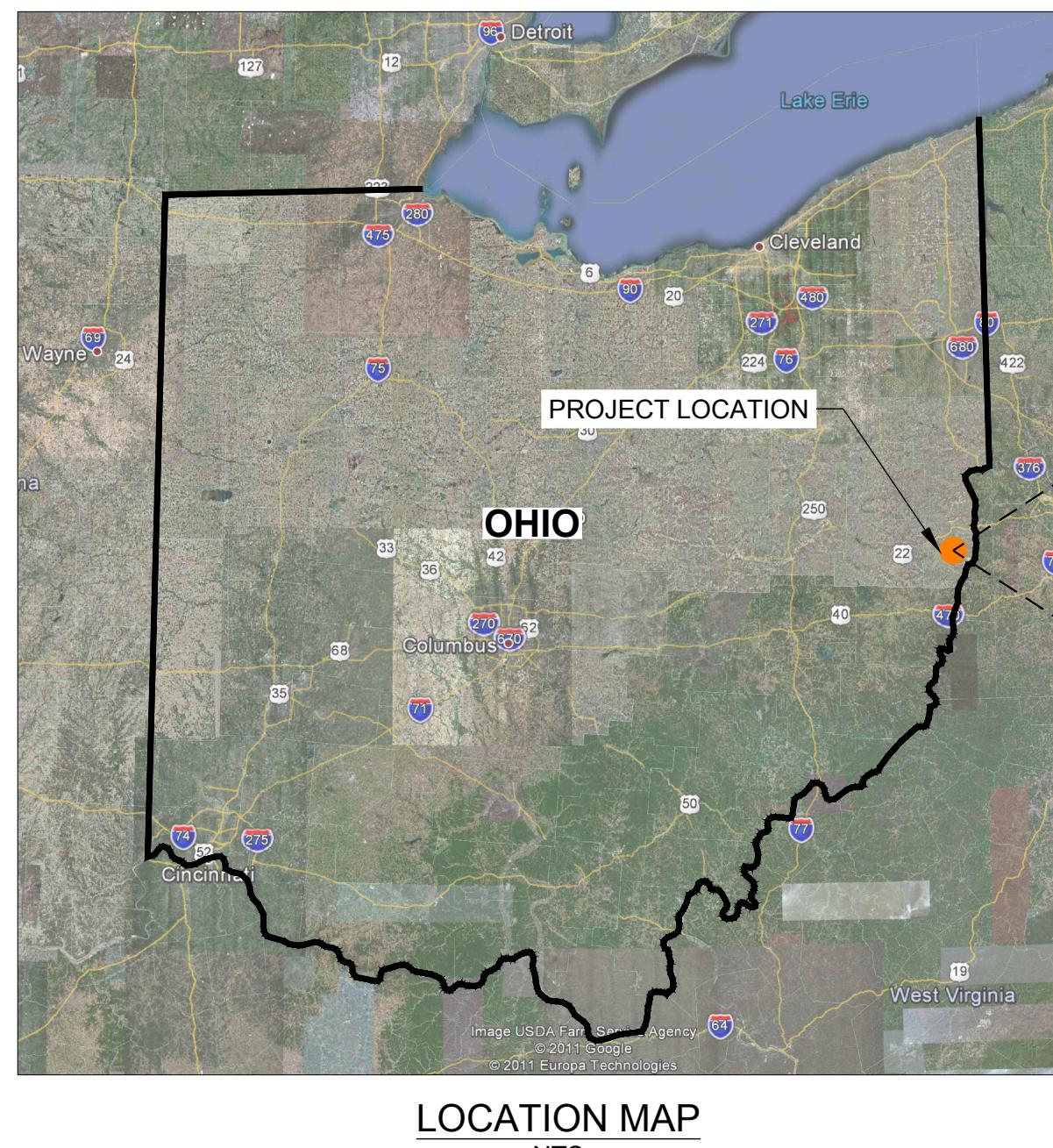
## Approvals:

WSP Design Engineer:	<i>Vanessa Nancarrow</i>	Date: Oct. 31, 2025
WSP Project Director:	<i>JM</i>	Date: Oct. 31, 2025
WSP Construction Manager:	<i>Cameron Beul</i>	Date: Oct. 31, 2025
CAMC Program Manager:	<i>Barbara K. Nielsen</i>	Date: Oct. 31, 2025
OEPA Site Coordinator:	Not applicable	Date:

## Distribution:

<input checked="" type="checkbox"/> Barbara Nielsen	CAMC Program Manager	<input checked="" type="checkbox"/> Rick Meyers	RECON Branch Manager
<input checked="" type="checkbox"/> Jordan Sisson	CAMC Project Manager	<input checked="" type="checkbox"/> Chuck Williams	RECON Project Manager
<input checked="" type="checkbox"/> Adam Green	CAMC HSO	<input checked="" type="checkbox"/> Kent Geis	RECON Project Manager
<input checked="" type="checkbox"/> Steve Anderson	WSP Project Director	<input checked="" type="checkbox"/> Jon Richardson	RECON Construction Manager
<input checked="" type="checkbox"/> Brent Barbich	WSP Project Manager	<input checked="" type="checkbox"/> Mark Sackman	RECON SSO
<input checked="" type="checkbox"/> Cameron Beul	WSP Construction Manager	<input checked="" type="checkbox"/> Kevin O'Hara	OEPA Site Coordinator
<input checked="" type="checkbox"/> Richard Pletz	WSP HSO	<input checked="" type="checkbox"/> Laura Stodola	WSP Project Controller

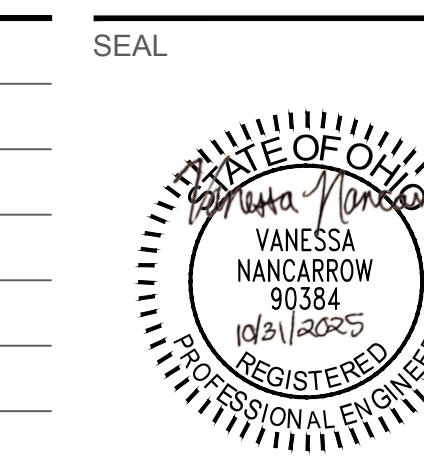
# SLAG REMOVAL INTERIM ACTION FORMER SATRALLOY SITE JEFFERSON COUNTY, OHIO



**VICINITY MAP**  
SCALE 1" = 1600'

SITE ADDRESS: 4243 COUNTY ROAD 74, MINGO JUNCTION, OH 43938

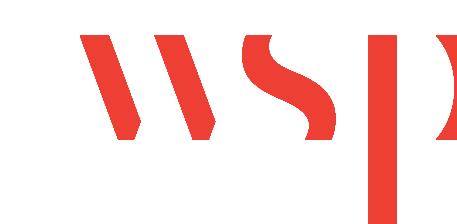
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
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REV. YYYY-MM-DD		DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED



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PROJECT  
FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO

TITLE  
COVER SHEET

PROJECT NO. 1239330907  
PHASE 900

REV. 4  
1 of 112  
SHEET 010

# SLAG REMOVAL INTERIM ACTION

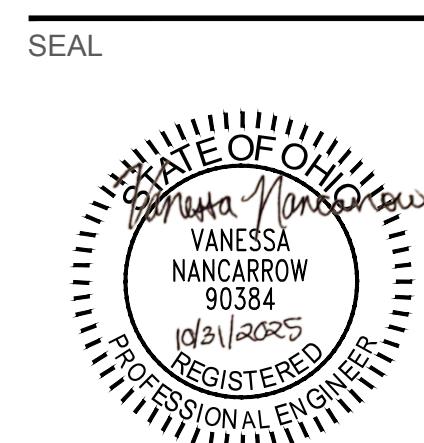
## FORMER SATRALLOY SITE, JEFFERSON COUNTY, OHIO

DRAWING LIST	
SHEET NUMBER	SHEET TITLE
010	COVER SHEET
011	DRAWING INDEX
020	SITE OVERVIEW
030	SURVEY MONUMENTATION AND CONTROL
040	SITE GROUNDWATER MONITORING WELLS AND OIL GAS WELLS
050	EXISTING CONDITIONS - NORTH LOWLANDS (1 OF 2)
051	EXISTING CONDITIONS - NORTH LOWLANDS (2 OF 2)
052	EXISTING CONDITIONS - PLANT AREA (1 OF 2)
053	EXISTING CONDITIONS - PLANT AREA (2 OF 2)
054	EXISTING CONDITIONS - SOUTH LOWLANDS (1 OF 3)
055	EXISTING CONDITIONS - SOUTH LOWLANDS (2 OF 3)
056	EXISTING CONDITIONS - SOUTH LOWLANDS (3 OF 3)
057	EXISTING CONDITIONS - UPLANDS (1 OF 3)
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104	TEMPORARY EROSION AND SEDIMENT CONTROL PLAN - SOUTH UPLANDS
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124	CLEARING PLAN - SOUTH UPLANDS
125	CLEARING PLAN - FORMER MINE AREA
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810	ACCESS ROAD AND FENCING DETAILS

CONTECH DRAWINGS	
SHEET NO.	SHEET TITLE
CT1	DOWNCHUTE WEST LAYOUT PLAN
CT2	DOWNCHUTE NORTH LAYOUT PLAN
CT3	DOWNCHUTE EAST AND SOUTH LAYOUT PLANS
CT4	DOWNCHUTE SOUTH LAYOUT PLAN AND DOWNCHUTE TYPICAL SECTIONS
CT5	ARTICULATED CONCRETE BLOCK MAT TYPICAL DETAILS



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PROJECT  
FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO

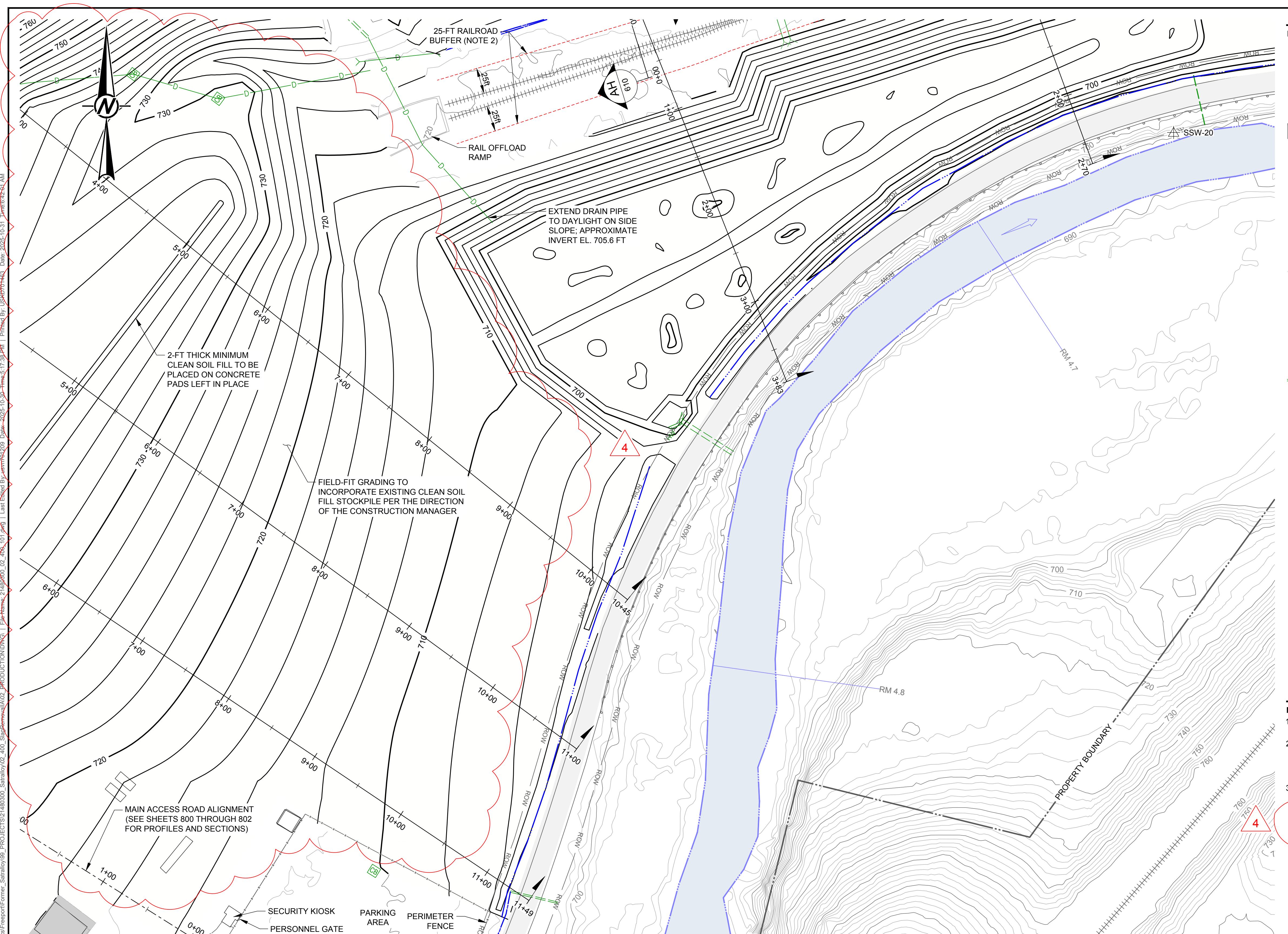
TITLE  
DRAWING INDEX

PROJECT NO.  
1239330907

PHASE  
900

REV.  
2 of 112

011



REV	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN	VMN	REDMOND	FSS	RSA
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION	VMN	REDMOND	FSS	RSA
0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA

A circular seal for a professional engineer. The outer ring contains the text "STATE OF OHIO" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner circle contains the name "Vanessa Nancarrow" in cursive, "VANESSA NANCARROW" in capital letters, the number "90384", the date "10/31/2025", and the word "REGISTERED" at the bottom.

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The logo for WSP, consisting of the letters 'WSP' in a bold, red, sans-serif font. The 'W' and 'S' are connected, and the 'P' is a vertical red bar.

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PROJECT  
**FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO**

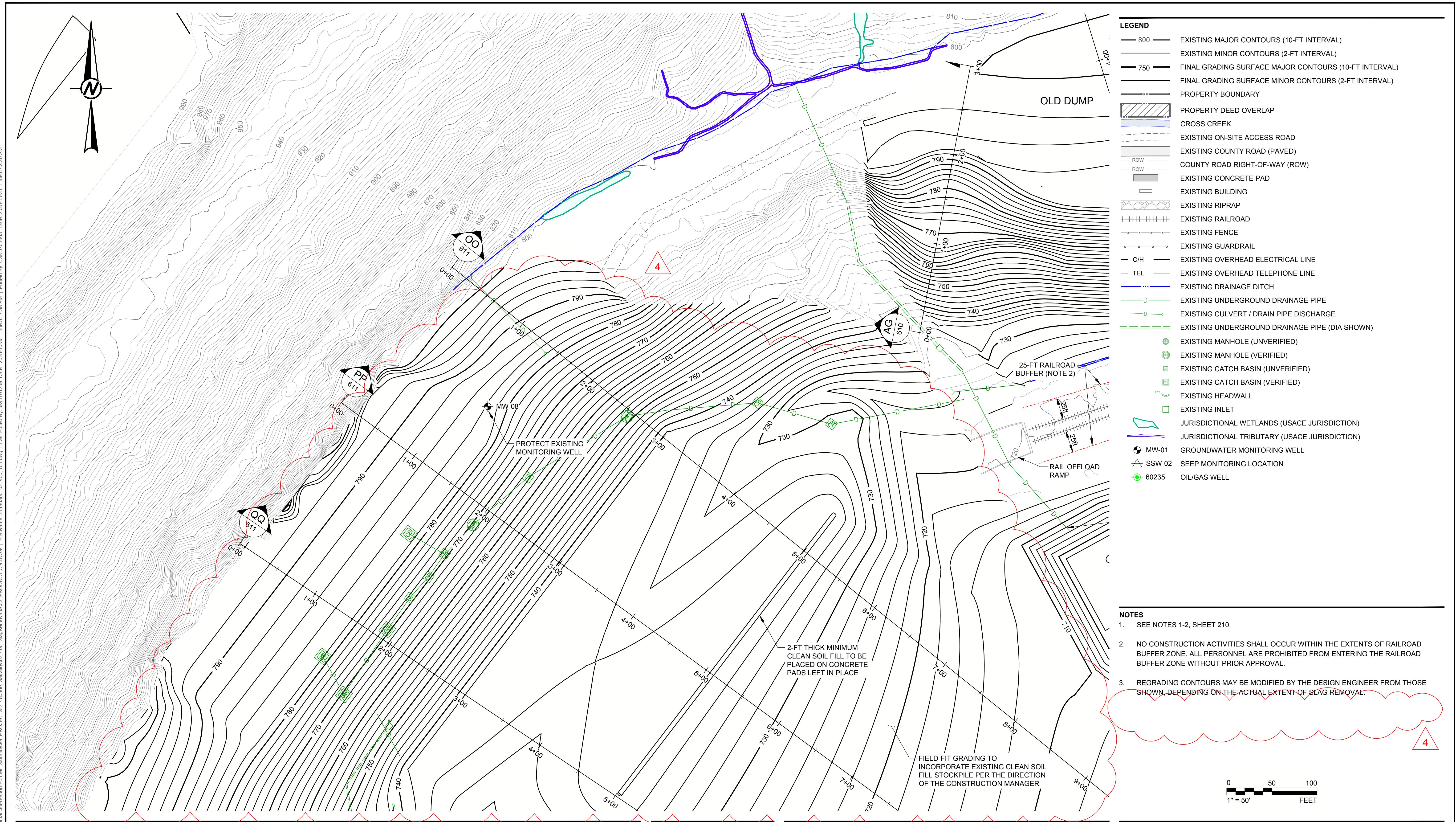
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**TITLE**  
**FINAL GRADING PLAN - NORTH LOWLANDS (2 OF 2)**

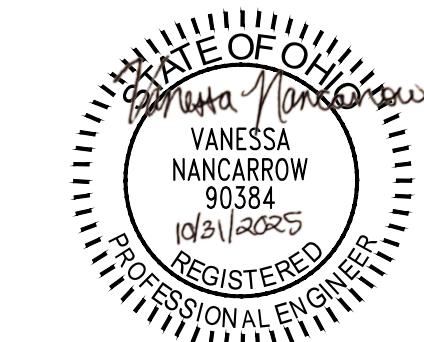
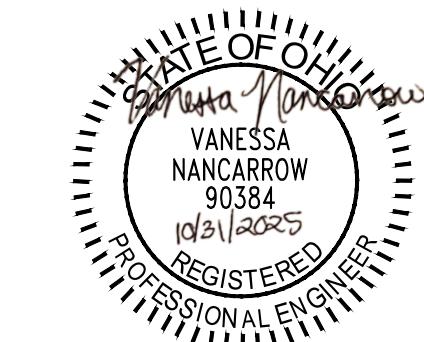
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PROJECT NO. PHASE REV. 59 of 112 SHEET  
1239330907 900 4 401

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI D



4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
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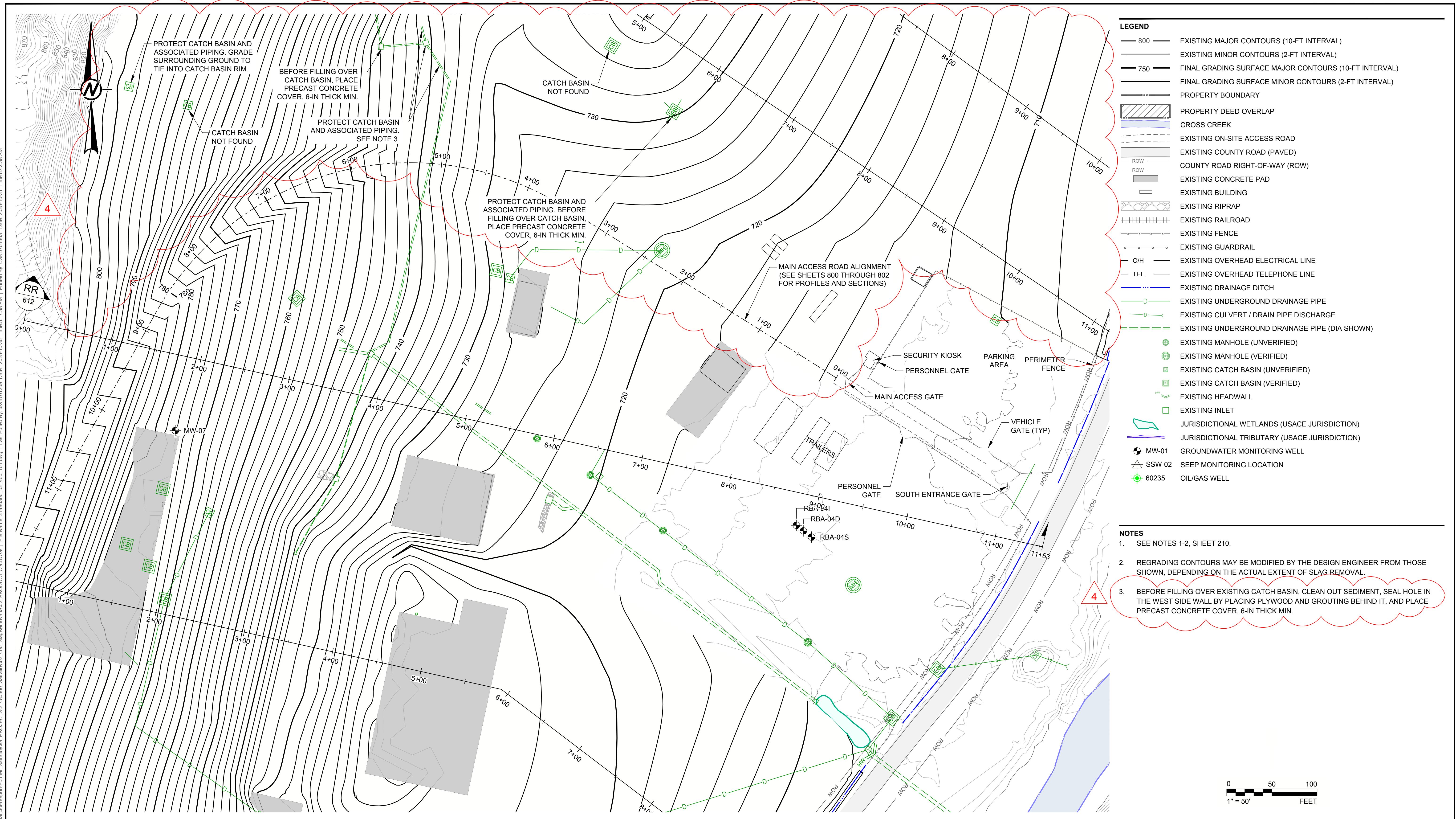
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**WSP**

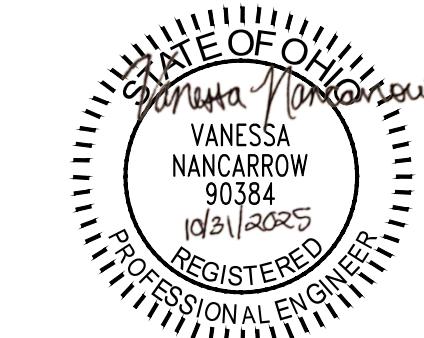
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**PROJECT**  
FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO  
**TITLE**  
FINAL GRADING PLAN - PLANT AREA (1 OF 2)

PROJECT NO. 1239330907 PHASE 900 REV. 60 of 112 SHEET 402



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION	VMN	REDMOND	FSS	RSA
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER	VMN	REDMOND	FSS	RSA
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0	2025-03-08	ISSUED FOR CONSTRUCTION	VMN	REDMOND	FSS	RSA



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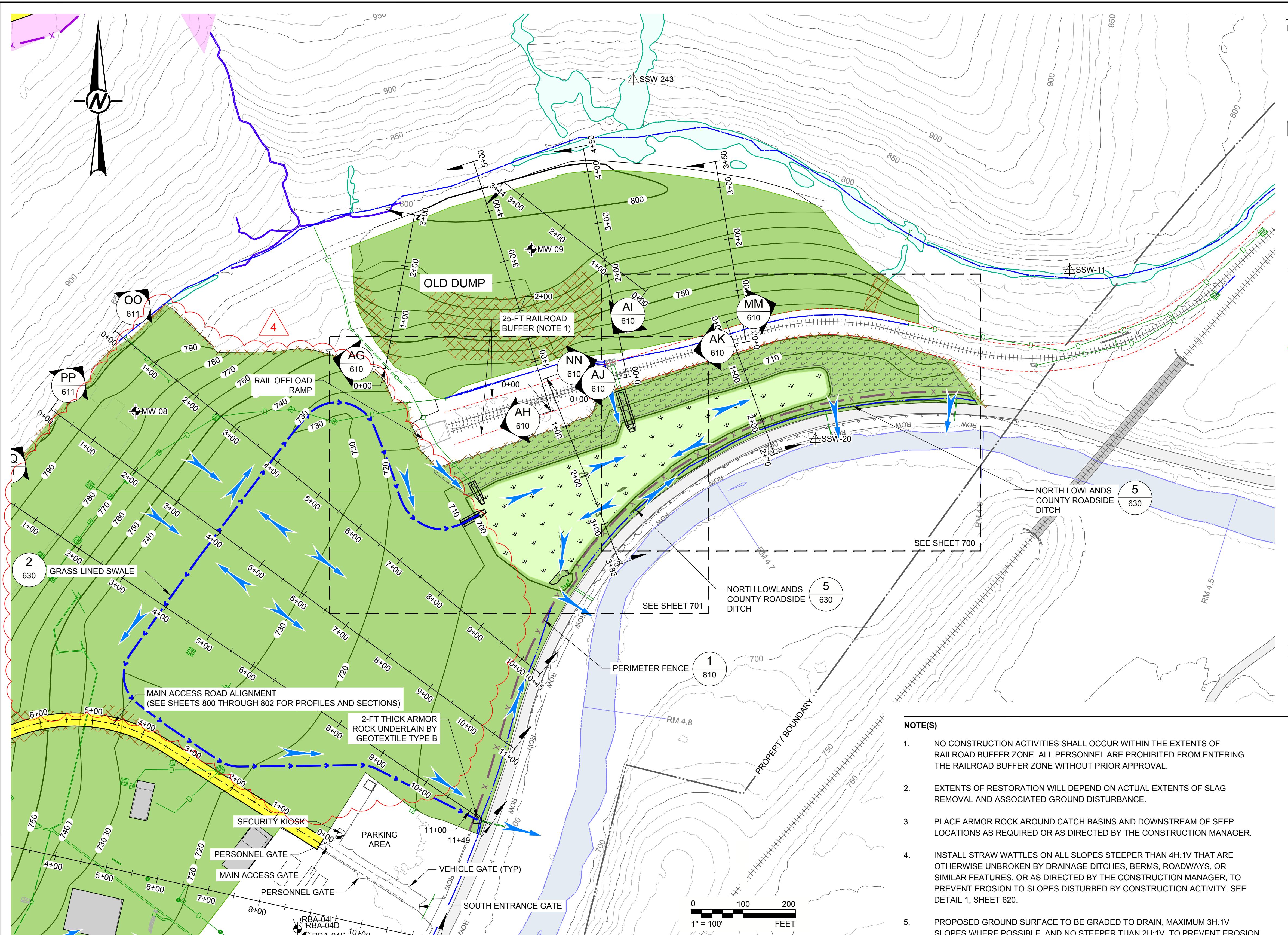
PROJECT  
**FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO**

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## FINAL GRADING PLAN - PLANT AREA (2 OF 2)

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PROJECT NO.	PHASE	REV.
1239330907	900	4



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
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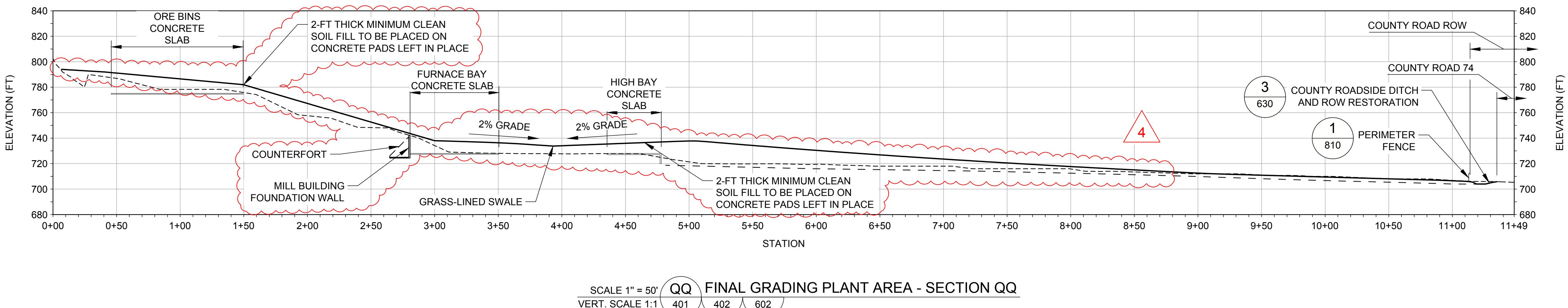
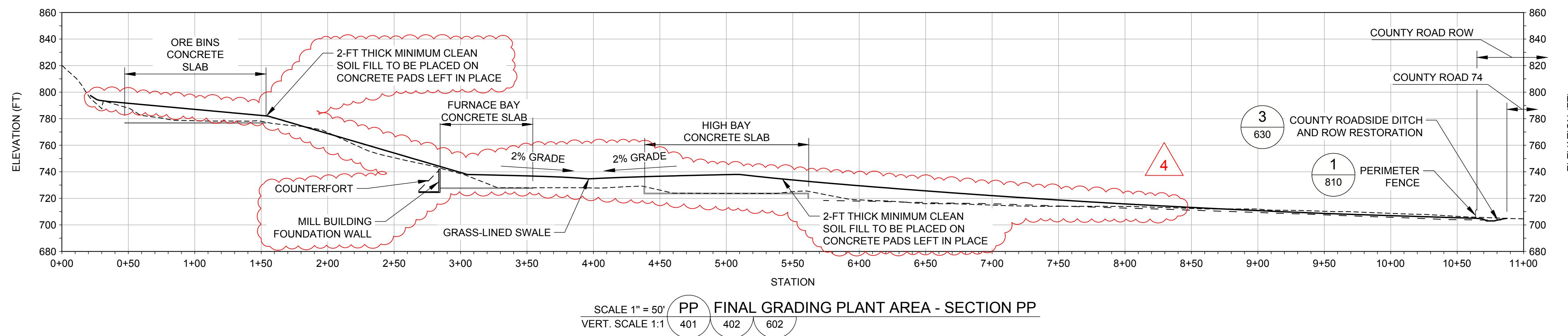
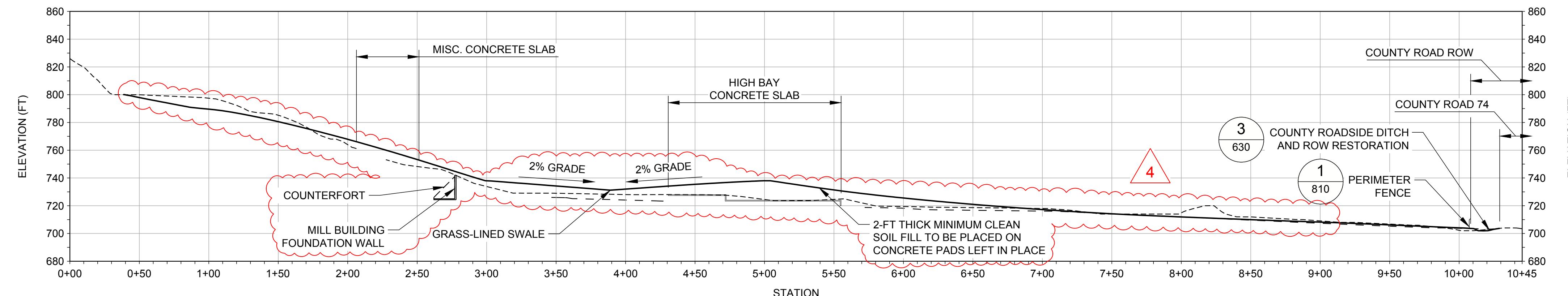
CONSULTANT

JECT  
ORMER SATRALLOY SITE  
LAG REMOVAL INTERIM ACTION  
EFFERSON COUNTY, OHIO

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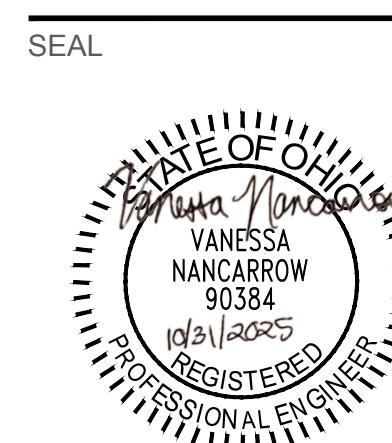
ITLE  
ESTORATION AND SURFACE WATER MANAGEMENT PLAN -  
ORTH LOWLANDS

PROJECT NO. PHASE REV. 91 of 112 SHEET  
239330907 900 4 601



0 50 100  
1" = 50' FEET

REV.	YYYY-MM-DD	DESCRIPTION	VMN	REDMOND	FSS	RSA
4	2025-10-29	NORTH MILL BUILDING AREA GRADING REVISION				
3	2025-09-22	MINE AREA STOCKPILE EXPANSION IN NE CORNER				
2	2025-07-25	RFI-27: UPPER RAIL FINAL GRADING PLAN				
1	2025-04-25	NORTH LOWLANDS DRAINAGE REVISION				
0	2025-03-08	ISSUED FOR CONSTRUCTION				
			DESIGNED	PREPARED	REVIEWED	APPROVED



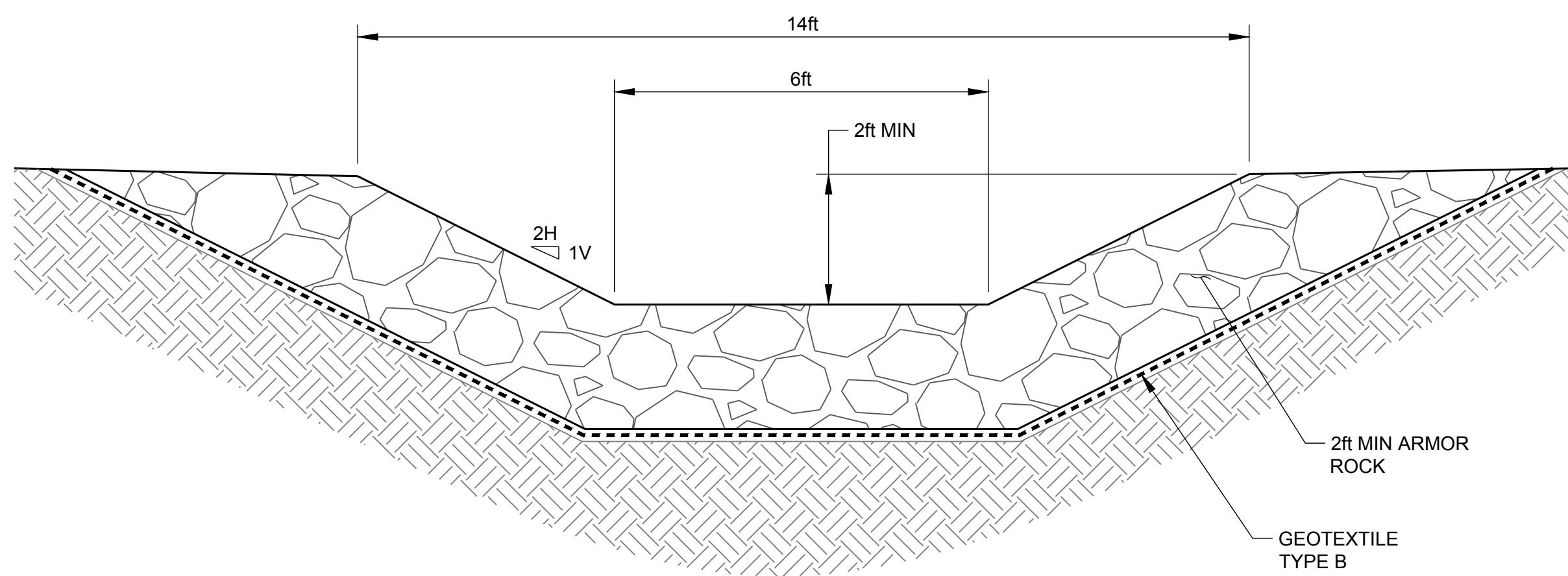
CLIENT  
CYPRUS AMAX MINERALS COMPANY

CONSULTANT

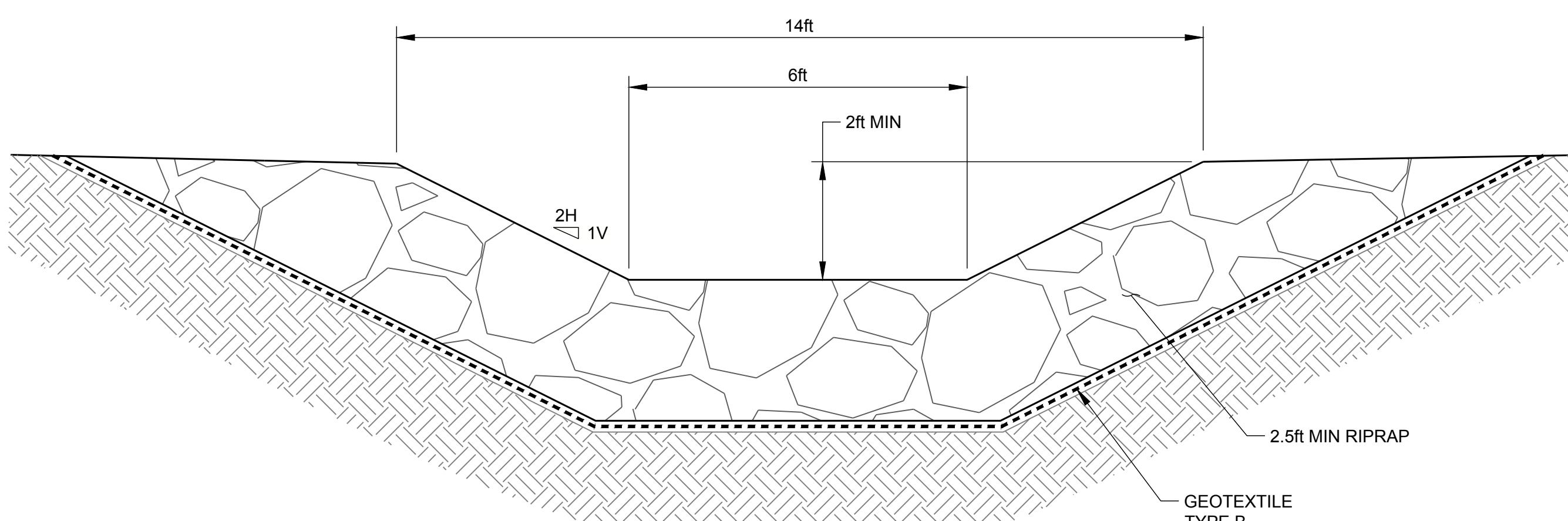


REDMOND  
18300 REDMOND WAY, SUITE 200  
REDMOND, WA  
USA  
[+1] (425) 883 0777  
www.golder.com

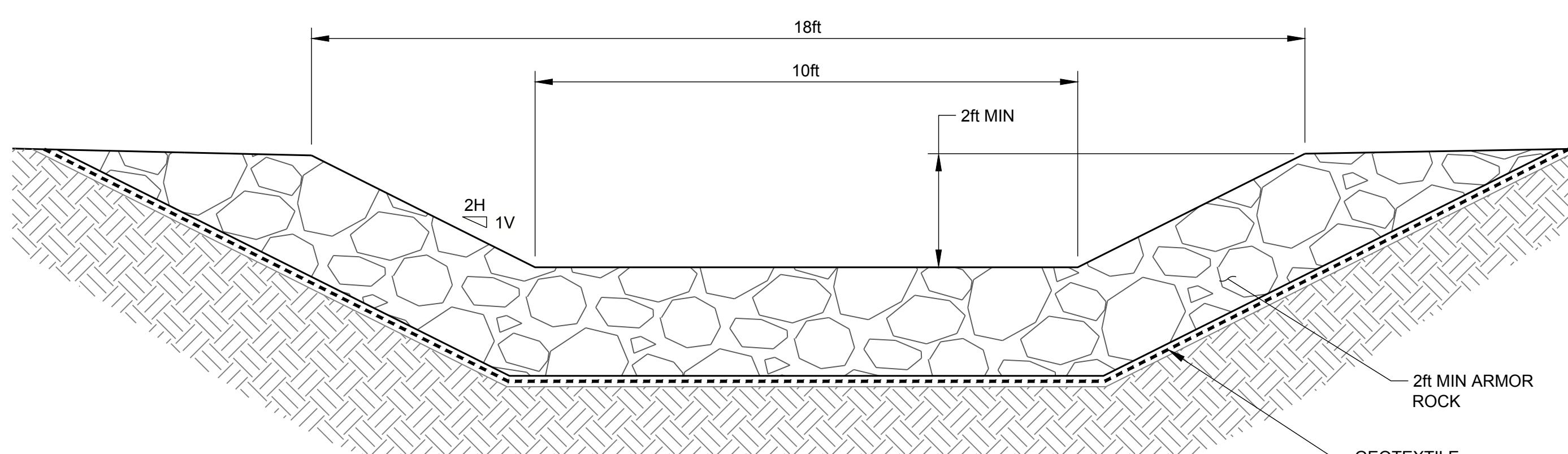
PROJECT  
FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO  
TITLE  
FINAL GRADING AND RESTORATION SECTIONS - PLANT AREA  
(1 OF 2)  
PROJECT NO. 1239330907 PHASE 900 REV. 98 of 112 SHEET 611  
1 in 1 in  
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSID



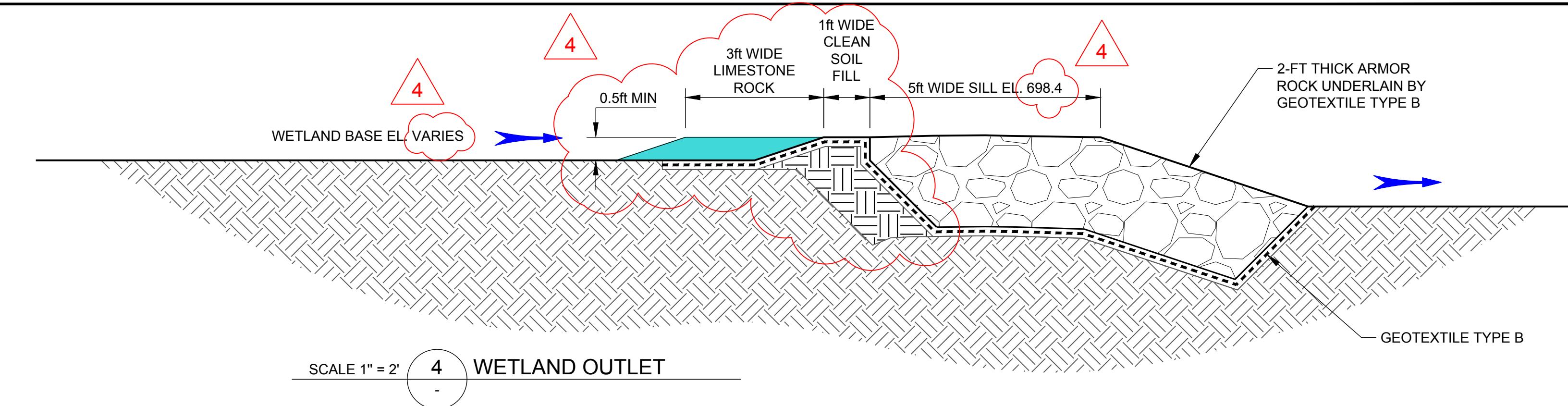
SCALE 1" = 2' 1 NORTH LOWLANDS SWALE DISCHARGE CHANNEL - TYPICAL SECTION



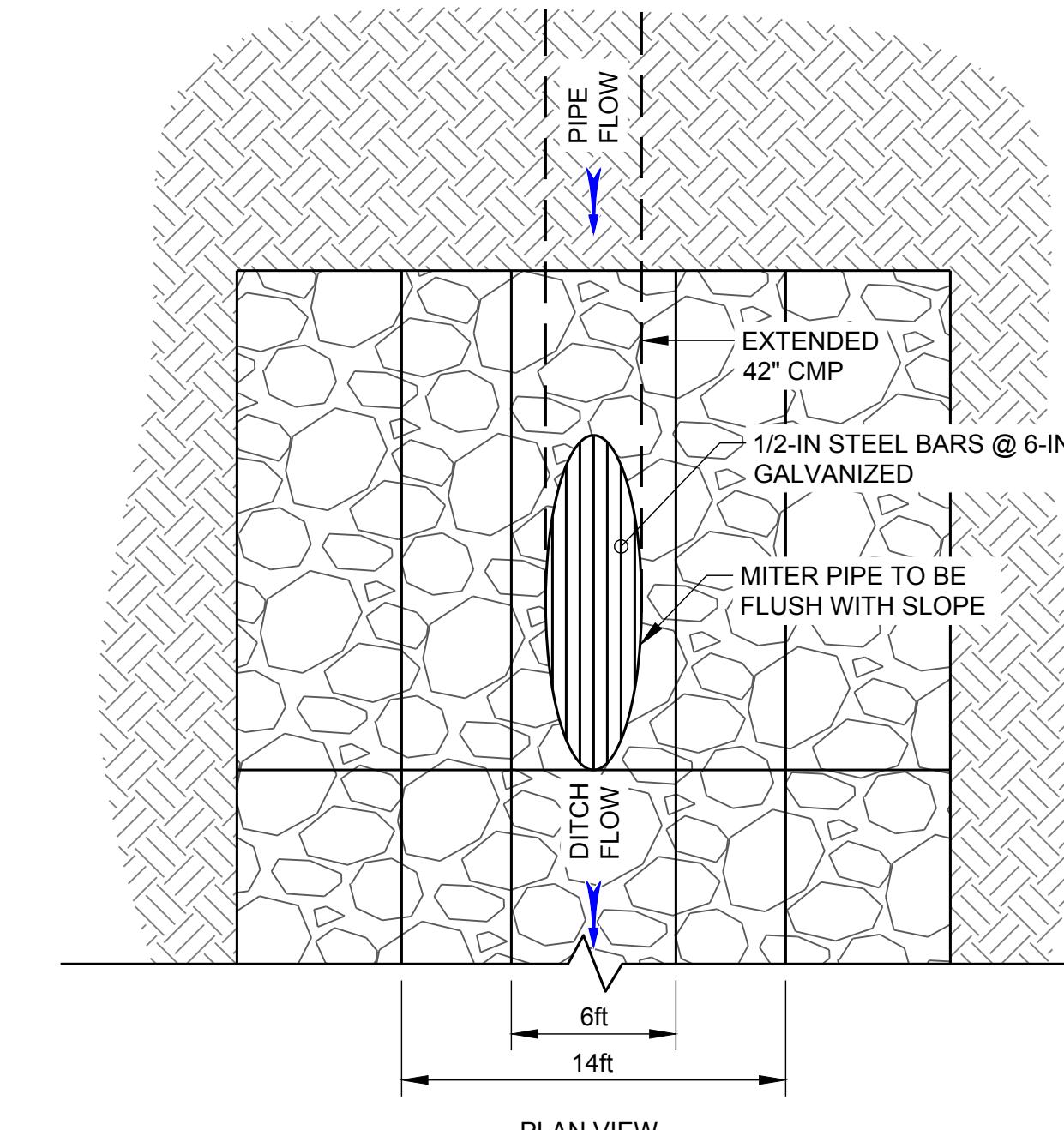
SCALE 1" = 2' 2 NORTH LOWLANDS CMP DISCHARGE CHANNEL - TYPICAL SECTION



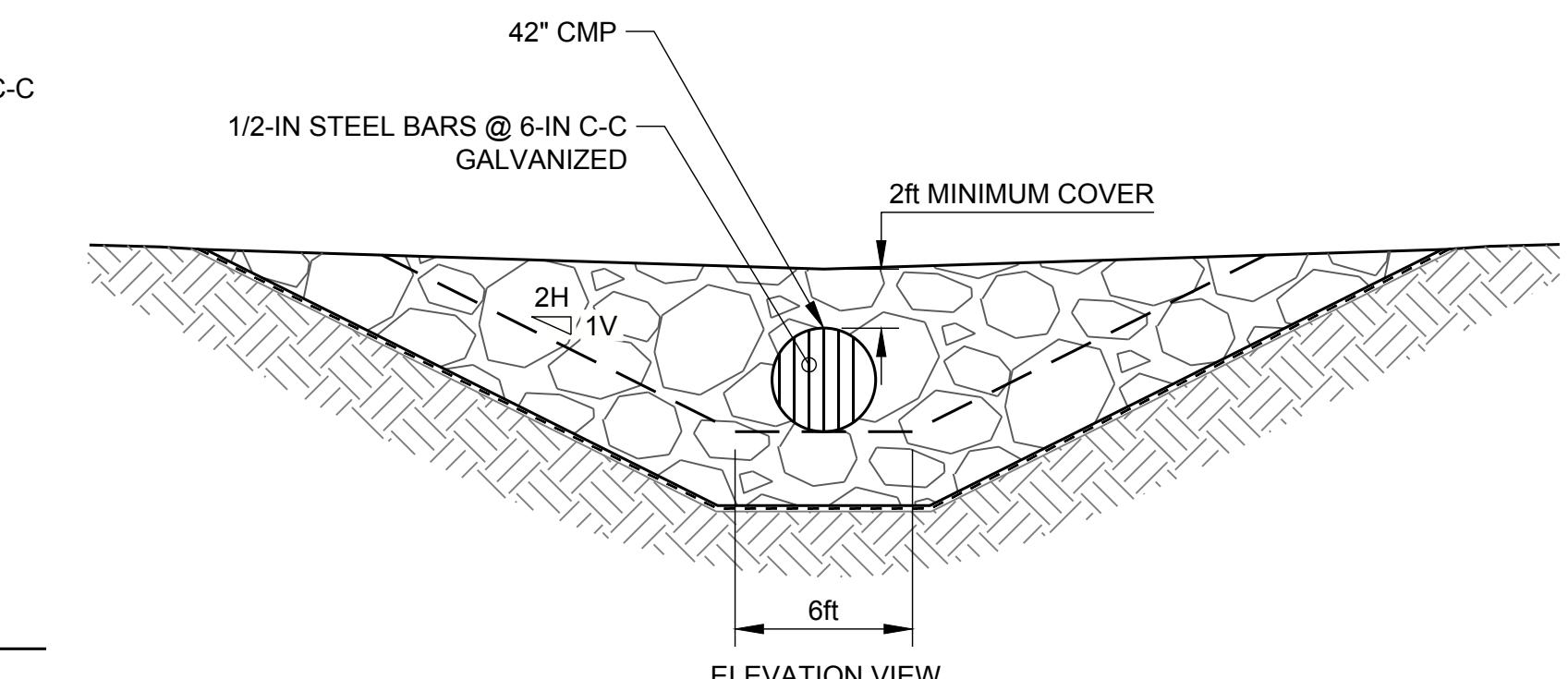
SCALE 1" = 2' 3 TWIN CULVERT DISCHARGE CHANNEL - TYPICAL SECTION



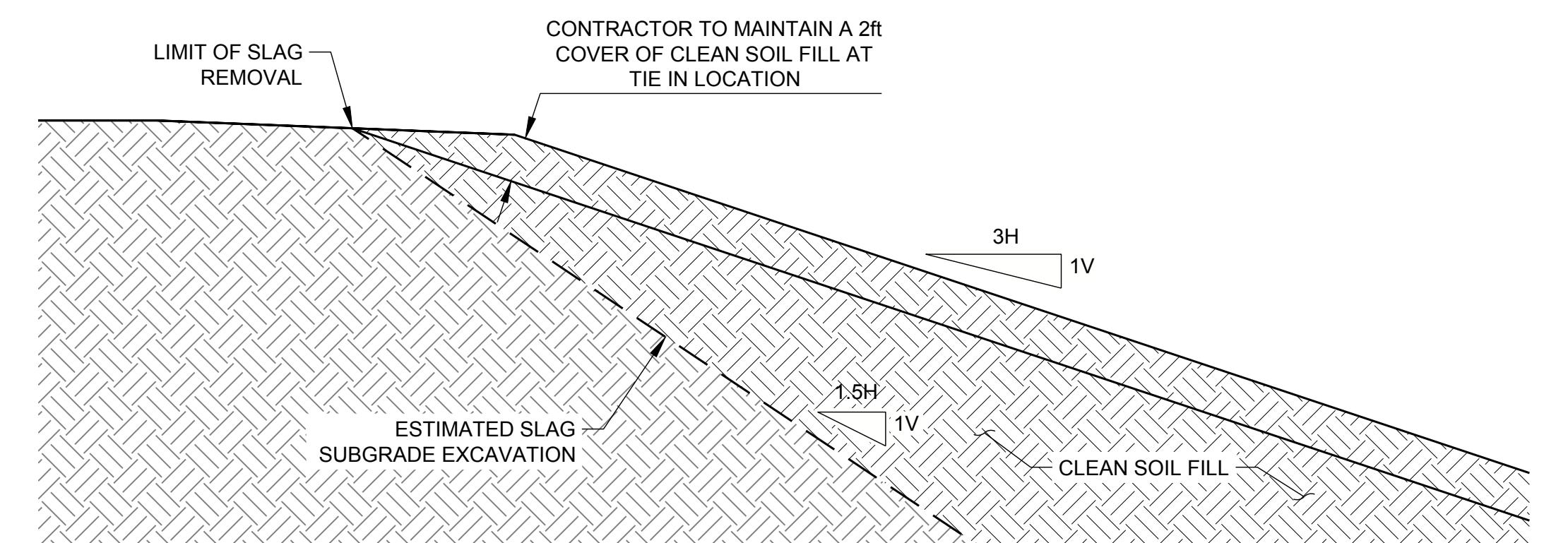
SCALE 1" = 2' 4 WETLAND OUTLET



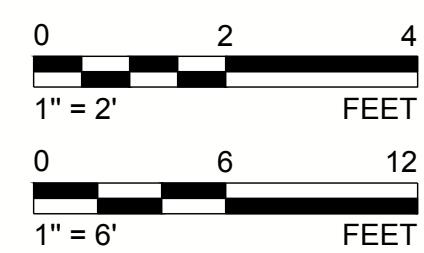
PLAN VIEW



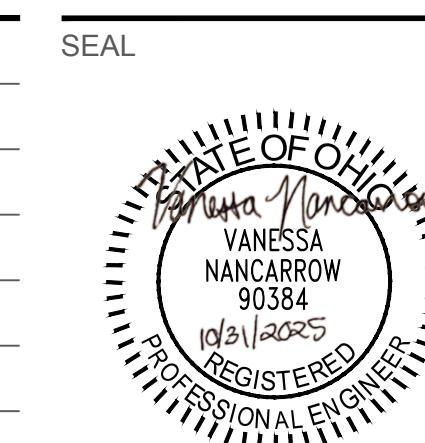
SCALE 1" = 6' 5 NORTH LOWLANDS CMP TERMINATION



SCALE 1" = 6' 6 NORTH EDGE OF WETLAND GRADING TIE IN TO EXISTING GROUND - TYPICAL SECTION



		VMN	REDMOND	FSS	RSA
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		VMN	REDMOND	FSS	RSA
REV. YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED



SEAL

CLIENT  
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PROJECT  
FORMER SATRALLOY SITE  
SLAG REMOVAL INTERIM ACTION  
JEFFERSON COUNTY, OHIO  
TITLE  
CONSTRUCTED WETLANDS DETAILS - NORTH LOWLANDS

PROJECT NO. 1239330907 PHASE 900 REV. 108 of 112 SHEET 711