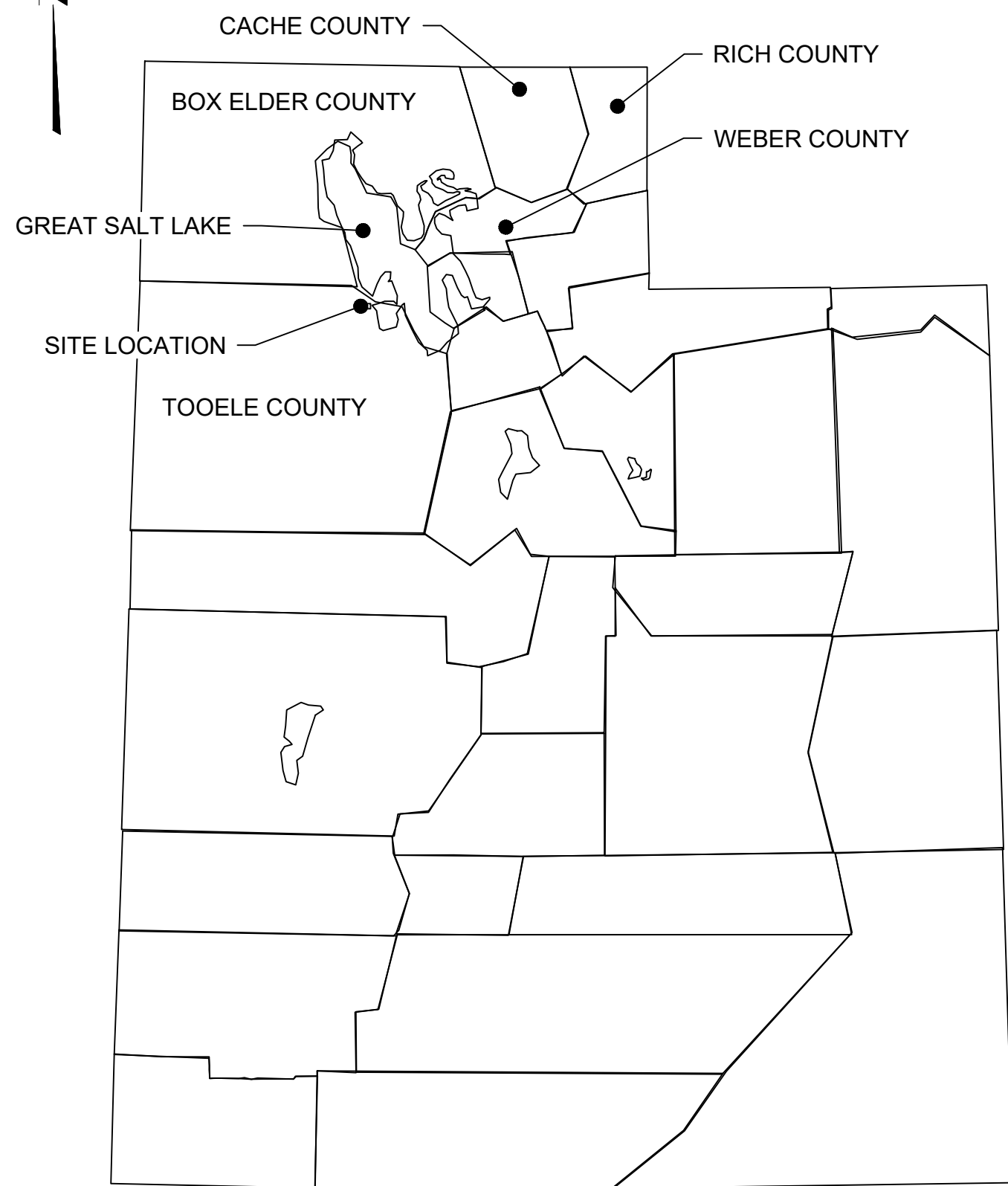
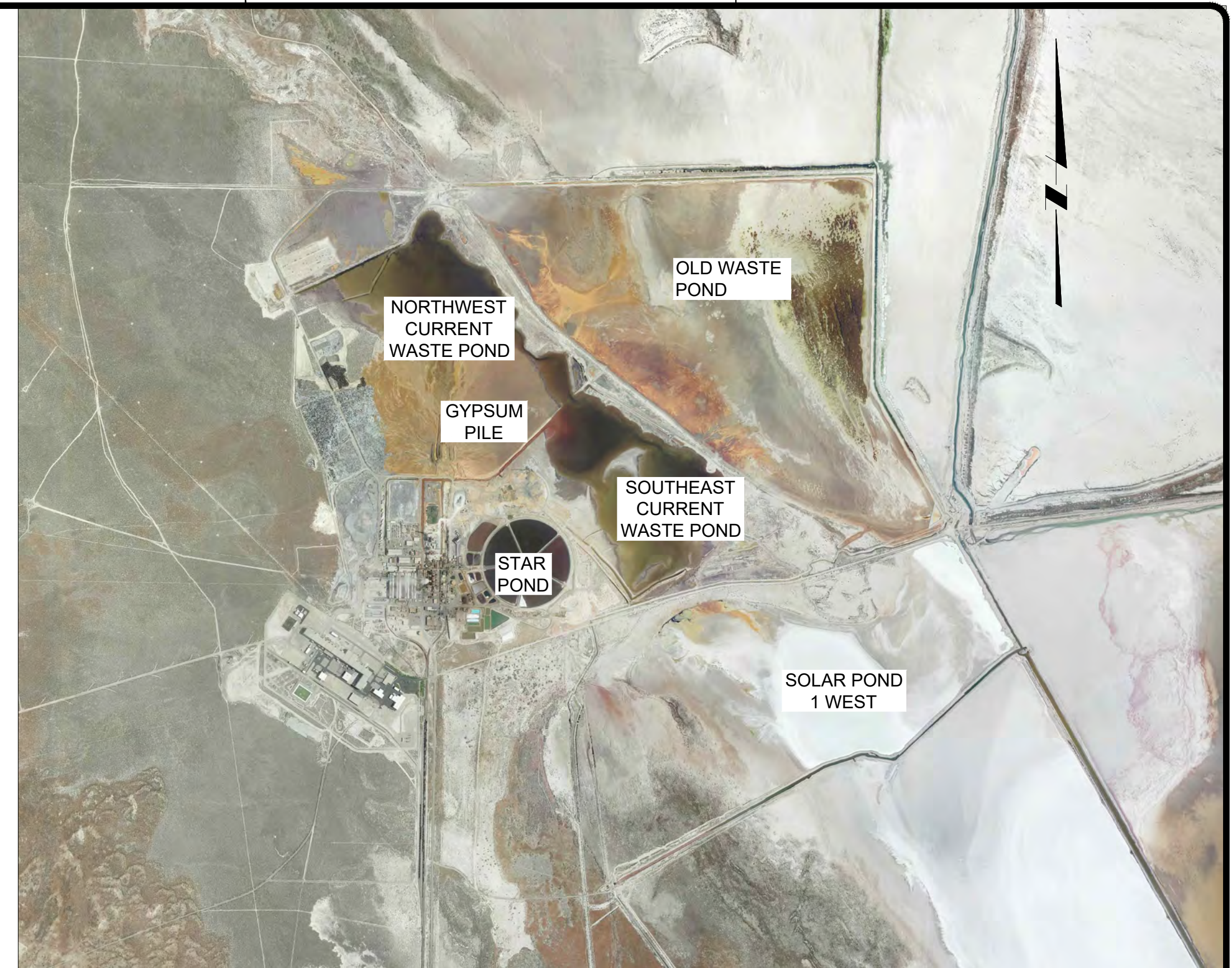


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LOCATION MAP
NTS

INDEX OF DRAWINGS	
DRAWING NO.	DRAWING TITLE
C001	COVER SHEET
C002	EXISTING CONDITIONS
C003	OVERALL PLAN VIEW
C004	SLURRY WALL PLAN AND PROFILE STA -5+50 TO STA 5+00
C005	SLURRY WALL PLAN AND PROFILE STA 5+00 TO STA 15+00
C006	SLURRY WALL PLAN AND PROFILE STA 15+00 TO STA 25+00
C007	SLURRY WALL PLAN AND PROFILE STA 25+00 TO STA 35+00
C008	SLURRY WALL PLAN AND PROFILE STA 35+00 TO STA 45+00
C009	SLURRY WALL PLAN AND PROFILE STA 45+00 TO STA 55+00
C010	SLURRY WALL PLAN AND PROFILE STA 55+00 TO STA 65+00
C011	SLURRY WALL PLAN AND PROFILE STA 65+00 TO STA 75+00
C012	SLURRY WALL PLAN AND PROFILE STA 75+00 TO STA 85+00
C013	SLURRY WALL PLAN AND PROFILE STA 85+00 TO STA 95+00
C014	SLURRY WALL PLAN AND PROFILE STA 95+00 TO STA 105+00
C015	SLURRY WALL PLAN AND PROFILE STA 105+00 TO STA 115+00
C016	SLURRY WALL PLAN AND PROFILE STA 115+00 TO STA 125+00
C017	SLURRY WALL PLAN AND PROFILE STA 125+00 TO STA 135+00
C018	SLURRY WALL PLAN AND PROFILE STA 135+00 TO STA 145+00
C019	SLURRY WALL PLAN AND PROFILE STA 145+00 TO STA 155+00
C020	SLURRY WALL PLAN AND PROFILE STA 155+00 TO STA 165+00
C021	SLURRY WALL PLAN AND PROFILE STA 165+00 TO STA 175+00
C022	SLURRY WALL PLAN AND PROFILE STA 175+00 TO STA 185+00
C023	SLURRY WALL PLAN AND PROFILE STA 185+00 TO STA 195+00
C024	SLURRY WALL PLAN AND PROFILE STA 195+00 TO STA 205+00
C025	SLURRY WALL PLAN AND PROFILE STA 205+00 TO STA 215+00
C026	SLURRY WALL PLAN AND PROFILE STA 215+00 TO STA 225+00
C027	SLURRY WALL PLAN AND PROFILE STA 225+00 TO STA 235+00
C028	SLURRY WALL PLAN AND PROFILE STA 235+00 TO STA 245+00
C029	SLURRY WALL PLAN AND PROFILE STA 245+00 TO STA 255+00
C030	TYPICAL HBW DETAILS
C031	HBW CONTROL POINT



VICINITY MAP
NTS

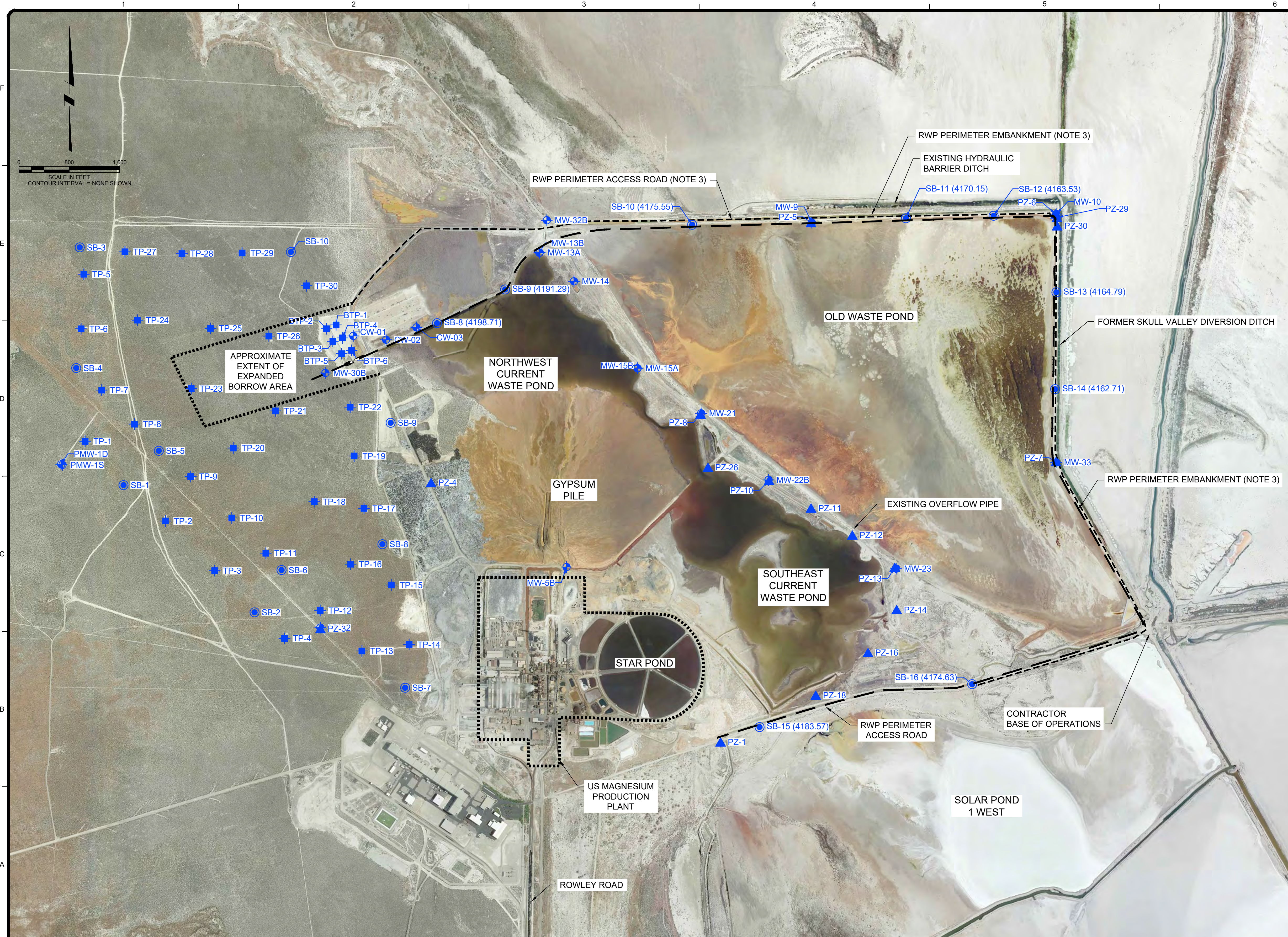
US Magnesium Phase 2 Design for the Retrofitted Waste Pond Hydraulic Barrier Wall Design



 TETRA TECH <small>www.tetrattech.com</small> 4750 West 2100 South, Suite 400 Salt Lake City, Utah 84120 PHONE: 801-972-9100		MARK	DATE	DESCRIPTION	BY	US MAGNESIUM GRANTSVILLE, UTAH PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN COVER SHEET AND DRAWING INDEX	Project No.: 117-8733004
		0	11/12/21	ISSUED FOR CONSTRUCTION	CT		Designed By: CT
		1	03/30/22	ISSUED FOR CONSTRUCTION	CT	Drawn By: JSS	Checked By: CT
C001							C001

Bar Measures 1 inch

3/30/2022 3:17 PM - C:_PDRIVE_IT-ZIUS MAGNESIUM.LLC\117-8733003 - COA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWP-SLURRY WALL-C002 EXISTING CONDITIONS.DWG



LEGEND:

- SOIL BORING (TOP OF CLAY LAYER ELEV)
- ◆ MONITORING WELL
- ▲ PIEZOMETER
- TEST PIT
- CWP CURRENT WASTE POND
- OWP OLD WASTE POND
- PHASE 1 EMBANKMENT ALIGNMENT

- NOTES:**
- ONLY THOSE SOIL BORING, MONITORING WELLS, PIEZOMETERS, AND TEST PITS LOCATED WITHIN THE AREA OF THE WORK, OR THAT ARE APPLICABLE TO THE WORK, ARE SHOWN.
 - AERIAL IMAGERY PROVIDED BY NM GROUP, 2015.
 - RWP PERIMETER EMBANKMENT TO BE CONSTRUCTED BY OTHERS DURING PHASE 1 OF THE PROJECT.

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US MAGNESIUM
GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN

EXISTING CONDITIONS

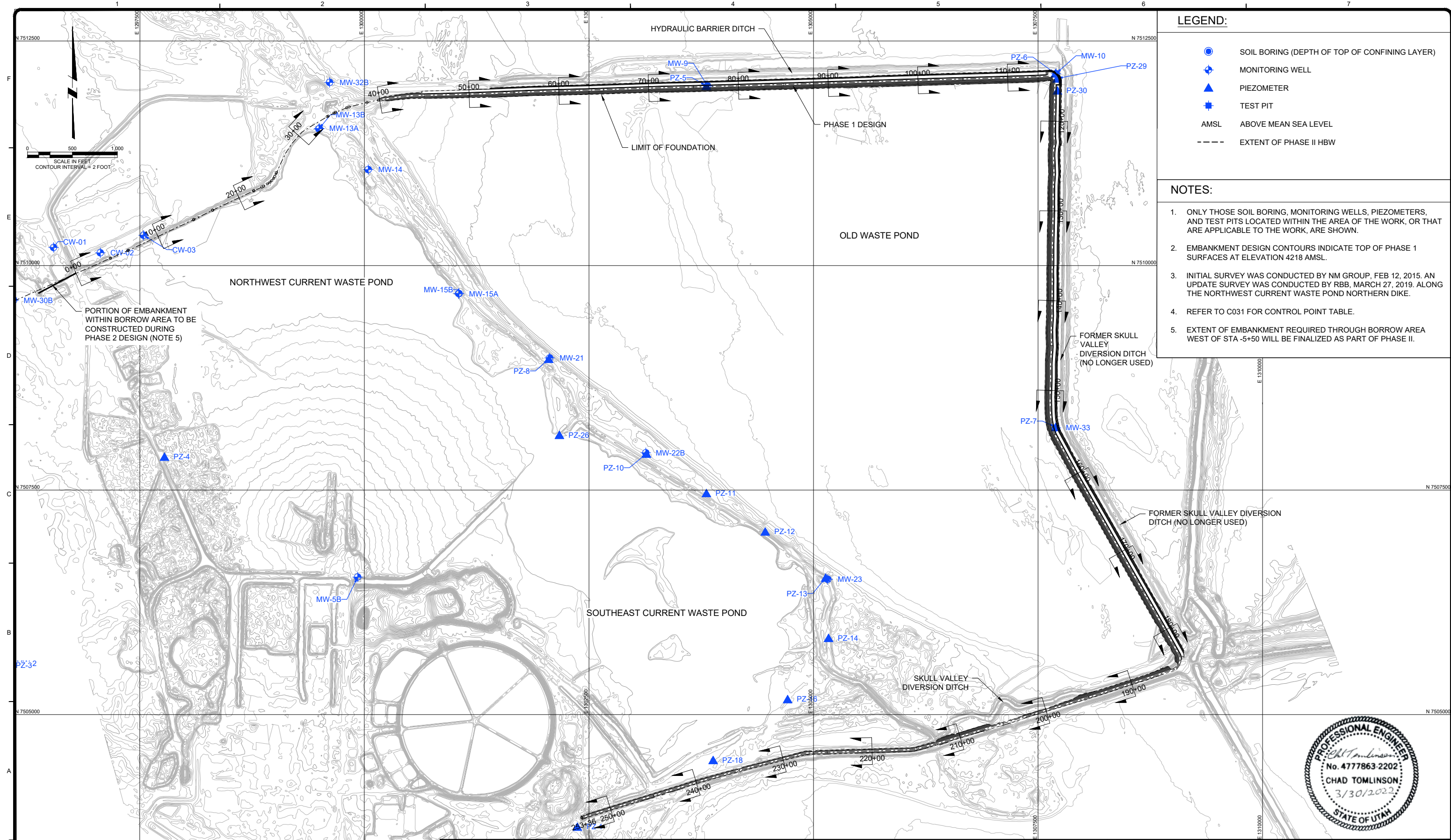


Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
Checked By: CT
C002

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Bar Measures 1 inch

3/30/2022 3:17 PM - C:\P-DRIVE\IT-ZIUS MAGNESIUM\LLC\117-8733003 - CQA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWP-SLURRY WALL-C003-OVERALL PLAN VIEW.DWG



LEGEND:

- SOIL BORING (DEPTH OF TOP OF CONFINING LAYER)
- ⊕ MONITORING WELL
- ▲ PIEZOMETER
- ⊛ TEST PIT
- AMSL ABOVE MEAN SEA LEVEL
- EXTENT OF PHASE II HBW

- NOTES:**
1. ONLY THOSE SOIL BORING, MONITORING WELLS, PIEZOMETERS, AND TEST PITS LOCATED WITHIN THE AREA OF THE WORK, OR THAT ARE APPLICABLE TO THE WORK, ARE SHOWN.
 2. EMBANKMENT DESIGN CONTOURS INDICATE TOP OF PHASE 1 SURFACES AT ELEVATION 4218 AMSL.
 3. INITIAL SURVEY WAS CONDUCTED BY NM GROUP, FEB 12, 2015. AN UPDATE SURVEY WAS CONDUCTED BY RBB, MARCH 27, 2019. ALONG THE NORTHWEST CURRENT WASTE POND NORTHERN DIKE.
 4. REFER TO C031 FOR CONTROL POINT TABLE.
 5. EXTENT OF EMBANKMENT REQUIRED THROUGH BORROW AREA WEST OF STA +5+50 WILL BE FINALIZED AS PART OF PHASE II.



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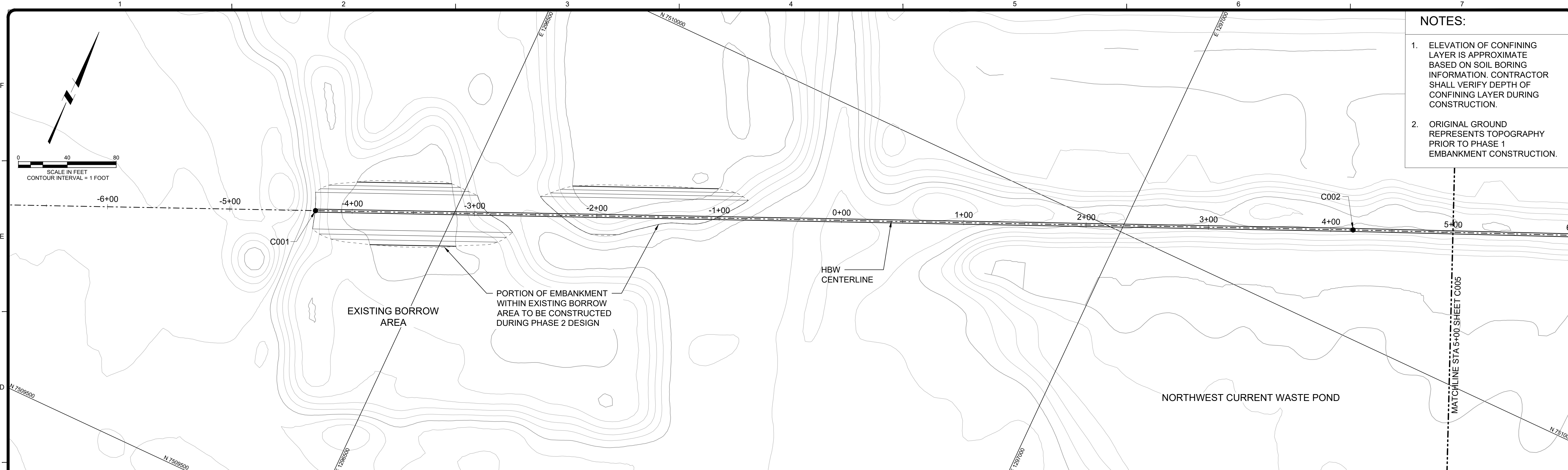
US MAGNESIUM
GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN

Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
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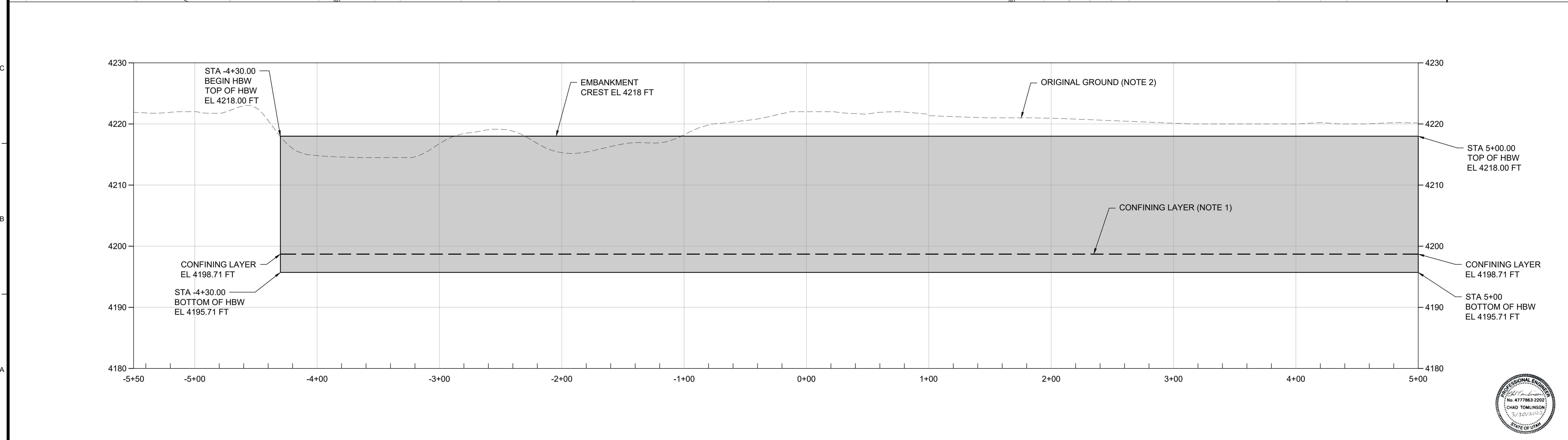
PLAN VIEW **C002**

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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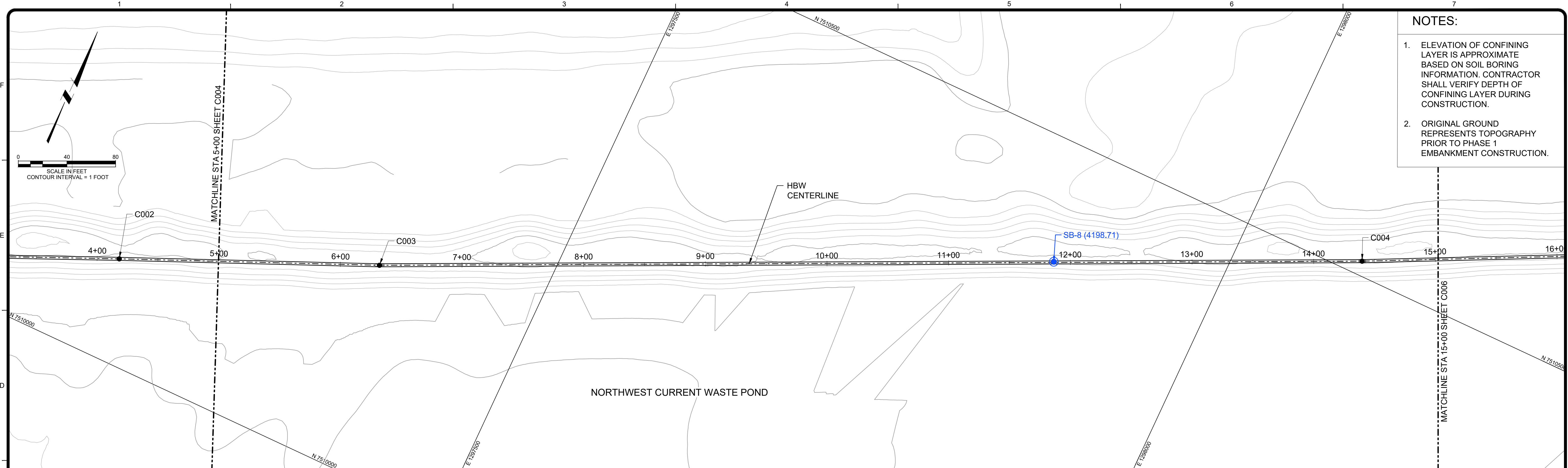
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GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
**SLURRY WALL PLAN AND PROFILE
STA. 5+50 TO STA. 5+00**

Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
Checked By: CT
C004

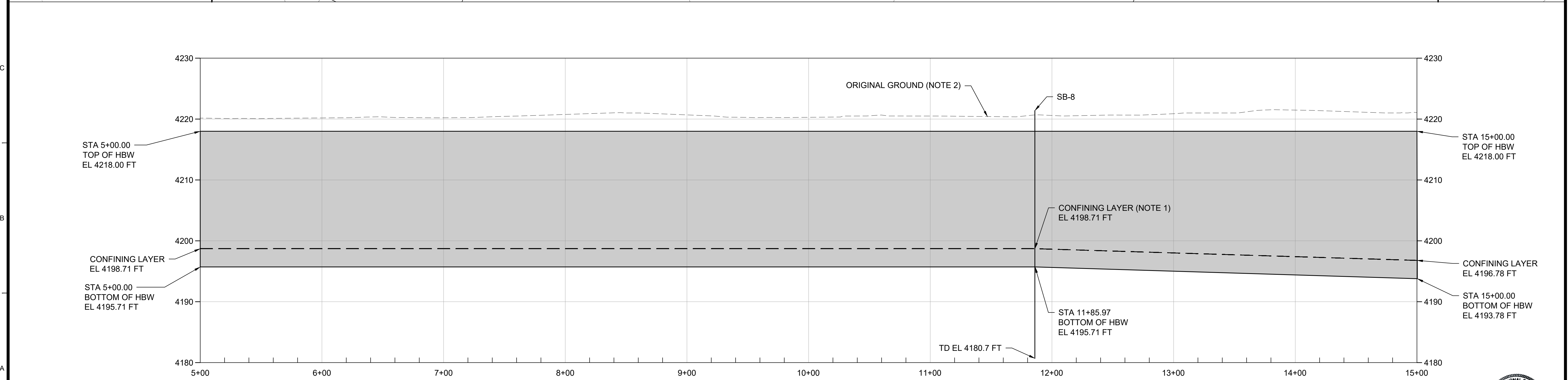
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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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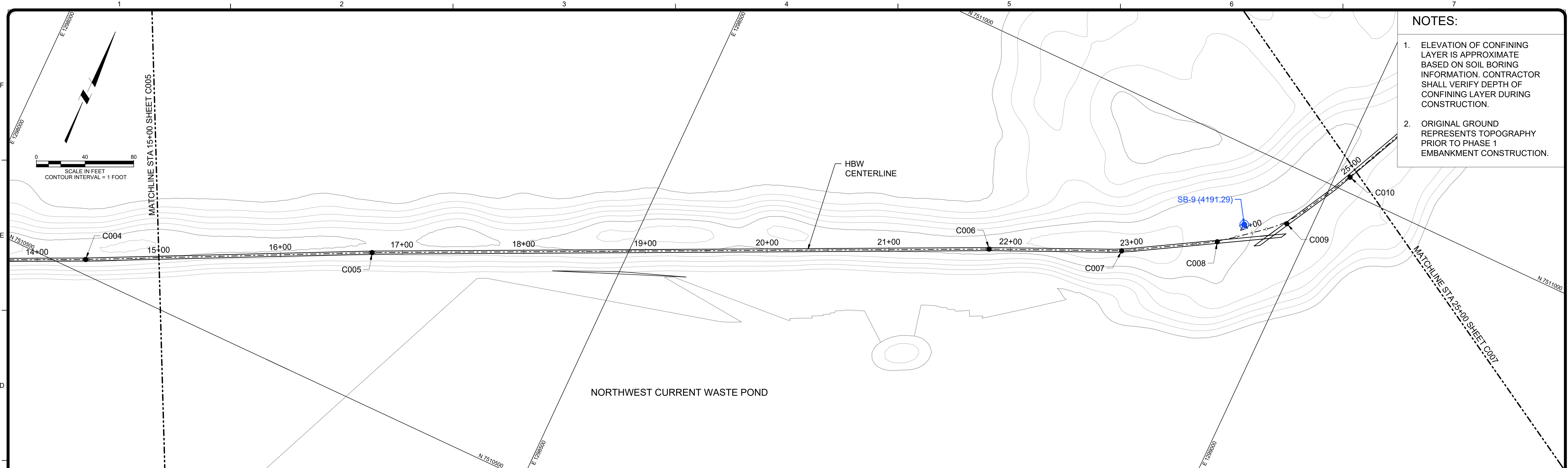
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GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
**SLURRY WALL PLAN AND PROFILE
STA. 5+50 TO STA. 5+00**

Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
Checked By: CT
C005

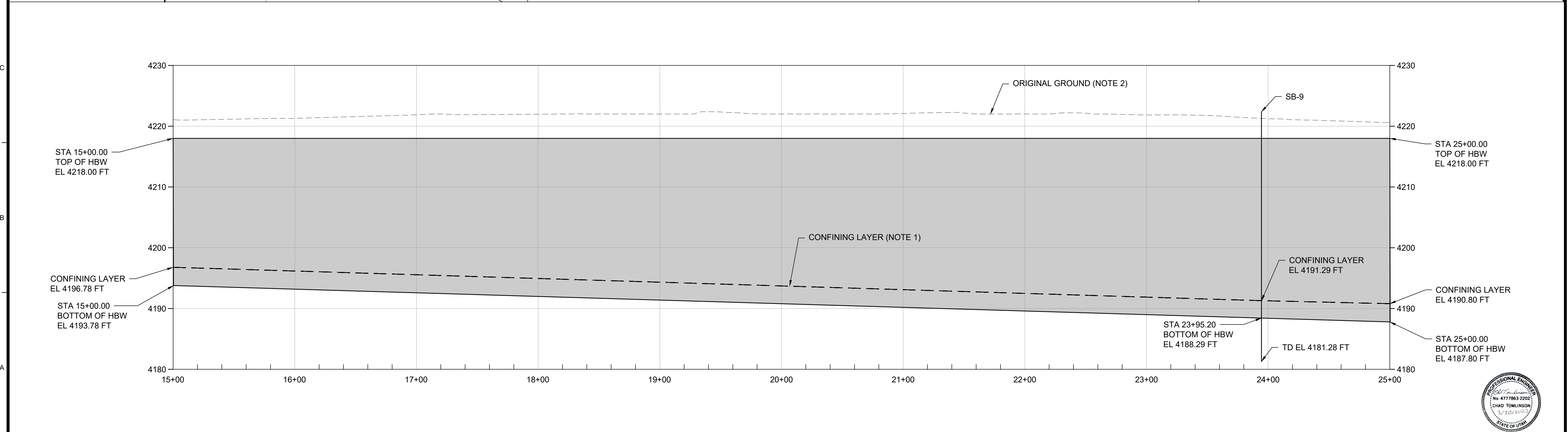
Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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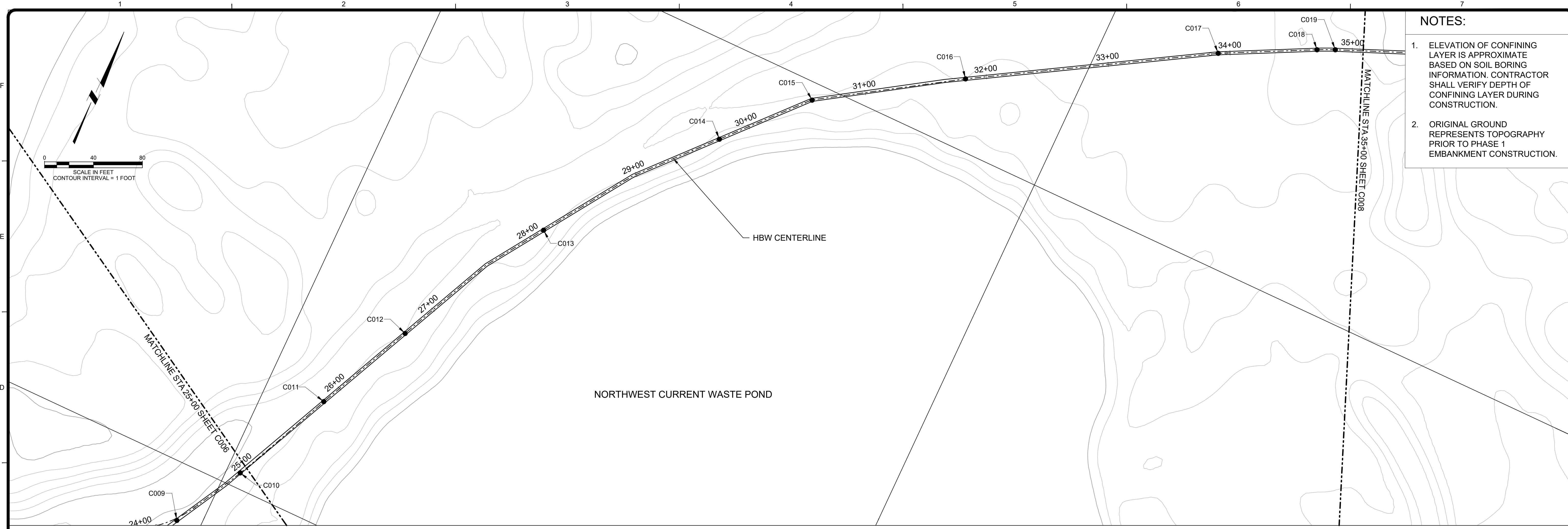
US MAGNESIUM
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 PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN
SLURRY WALL PLAN AND PROFILE
 STA. 15+00 TO STA. 25+00

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C006

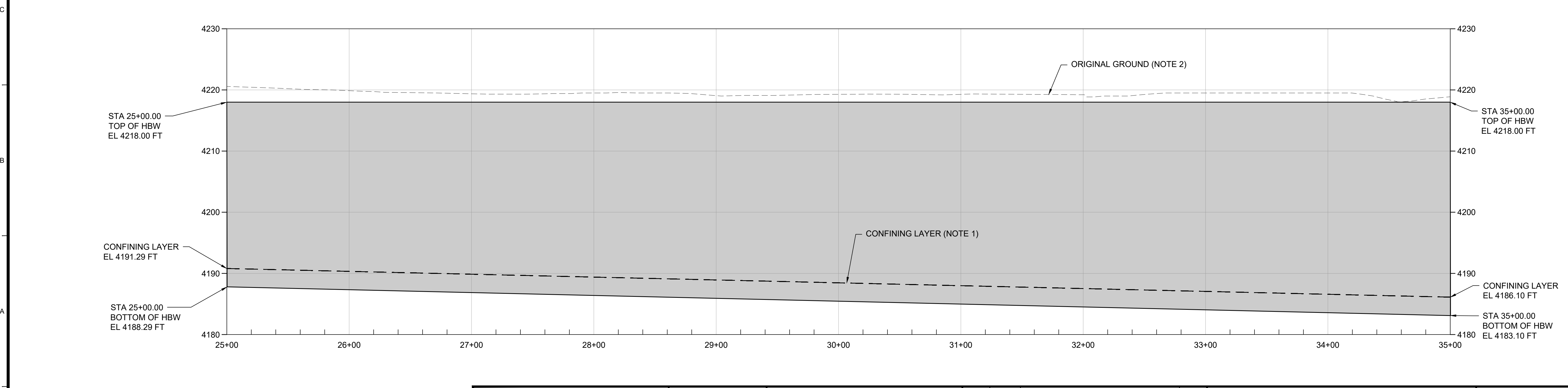
Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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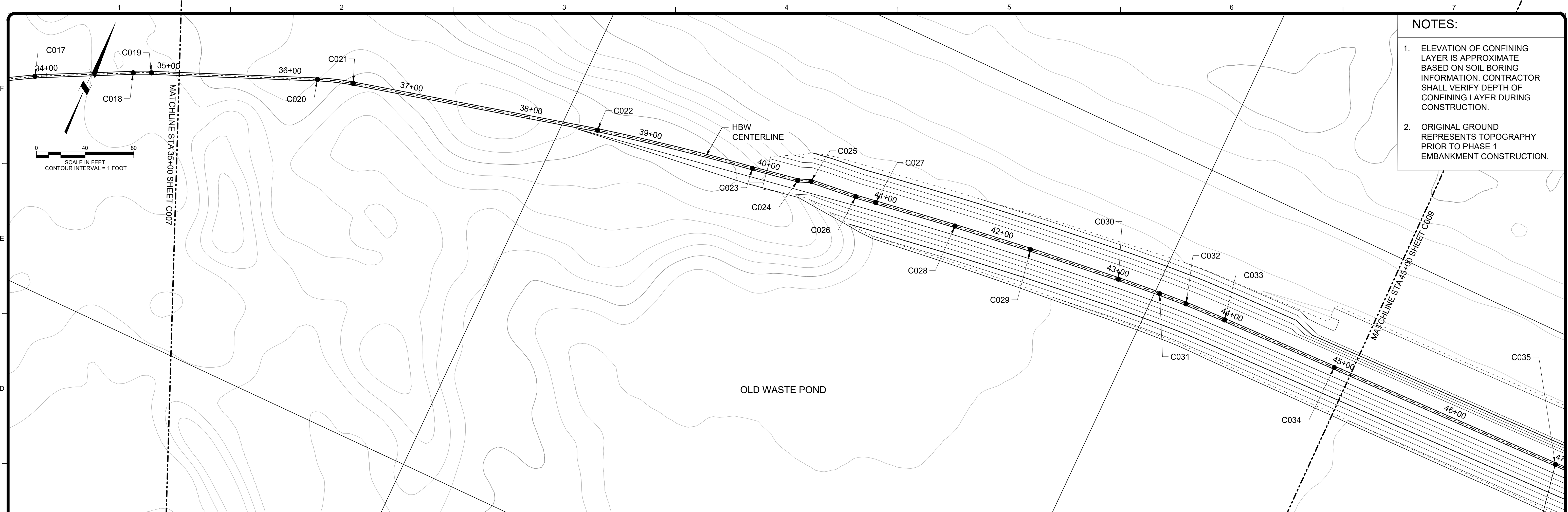
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 HYDRAULIC BARRIER WALL DESIGN
SLURRY WALL PLAN AND PROFILE
 STA. 25+00 TO STA. 35+00

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C007

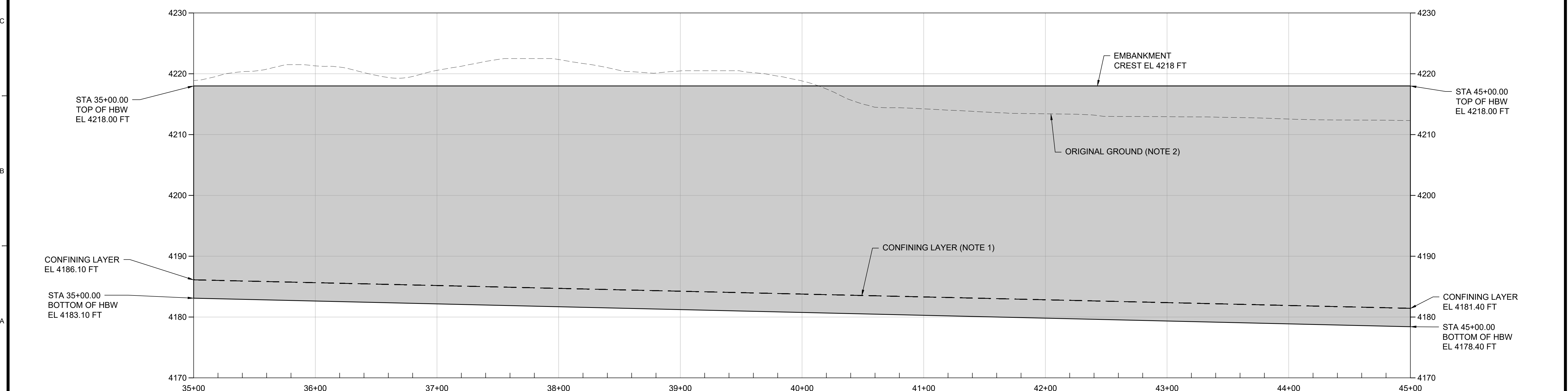
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- NOTES:**
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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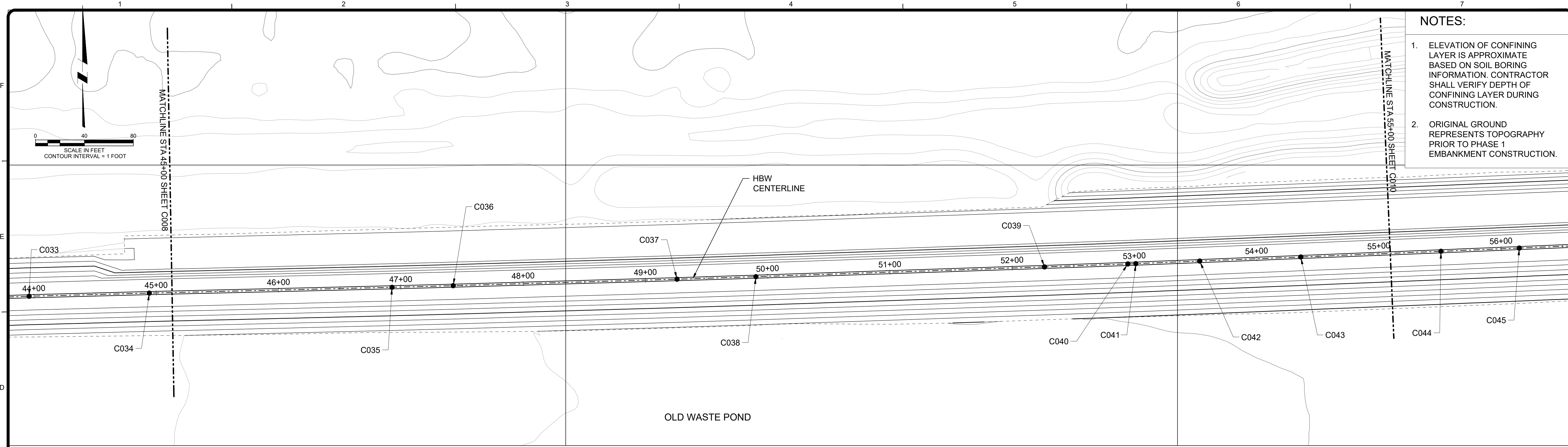
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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 35+00 TO STA. 45+00**

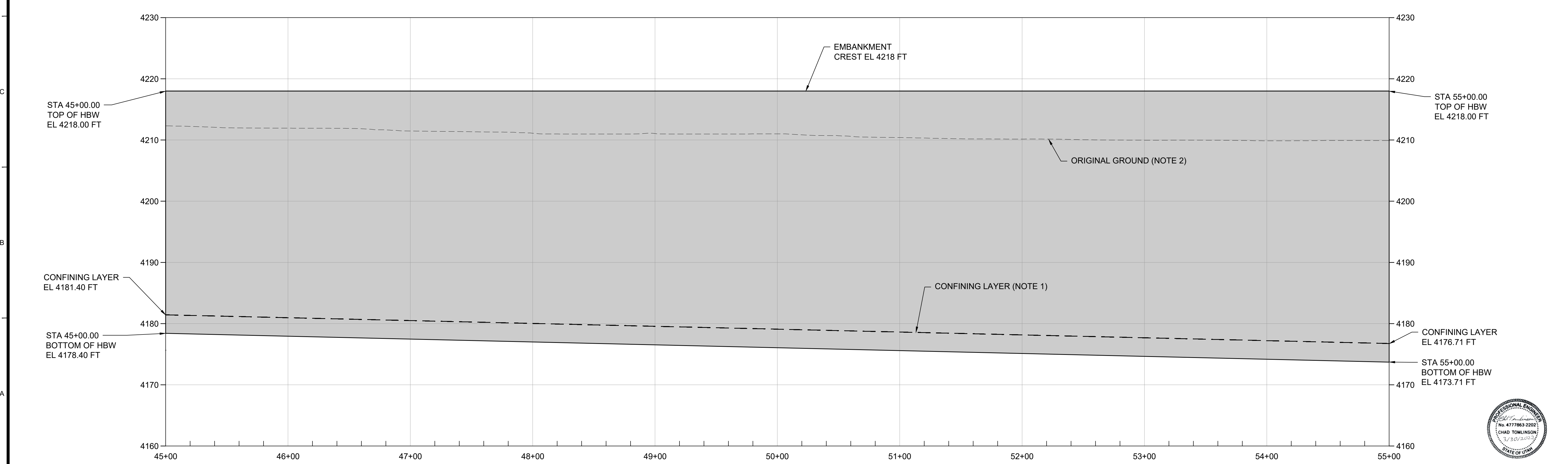
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C008

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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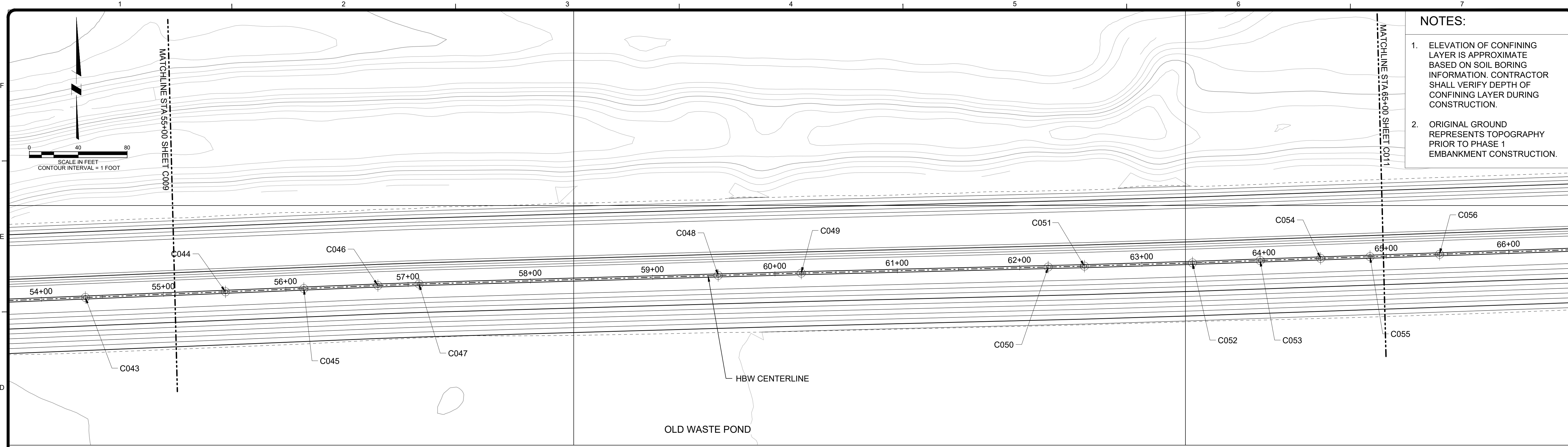
US MAGNESIUM
 GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 45+00 TO STA. 55+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C009

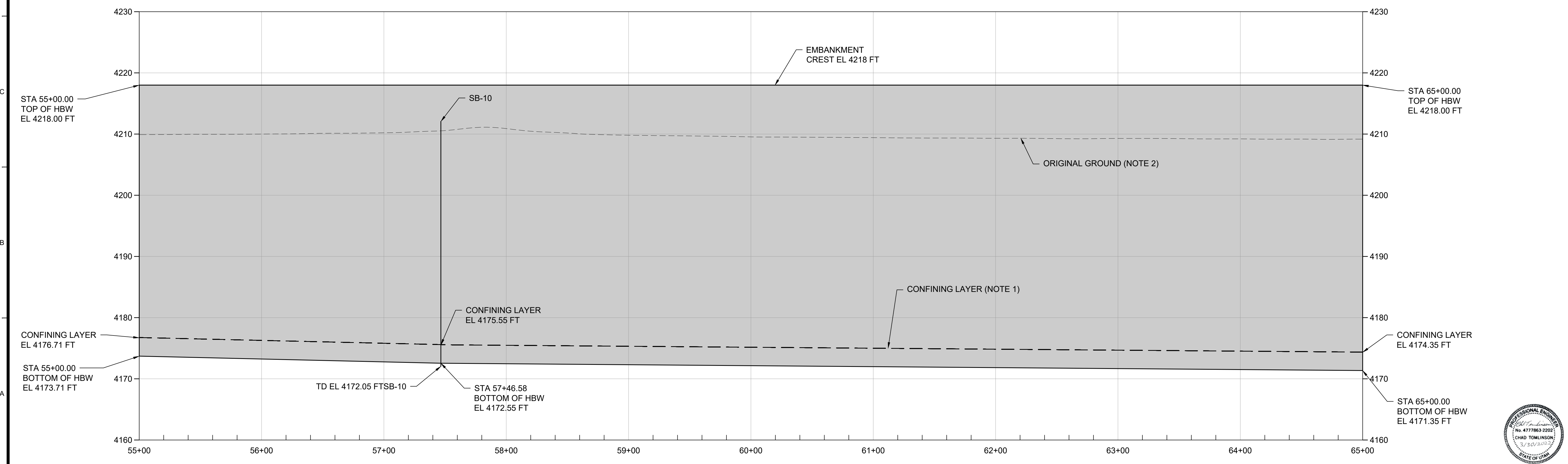
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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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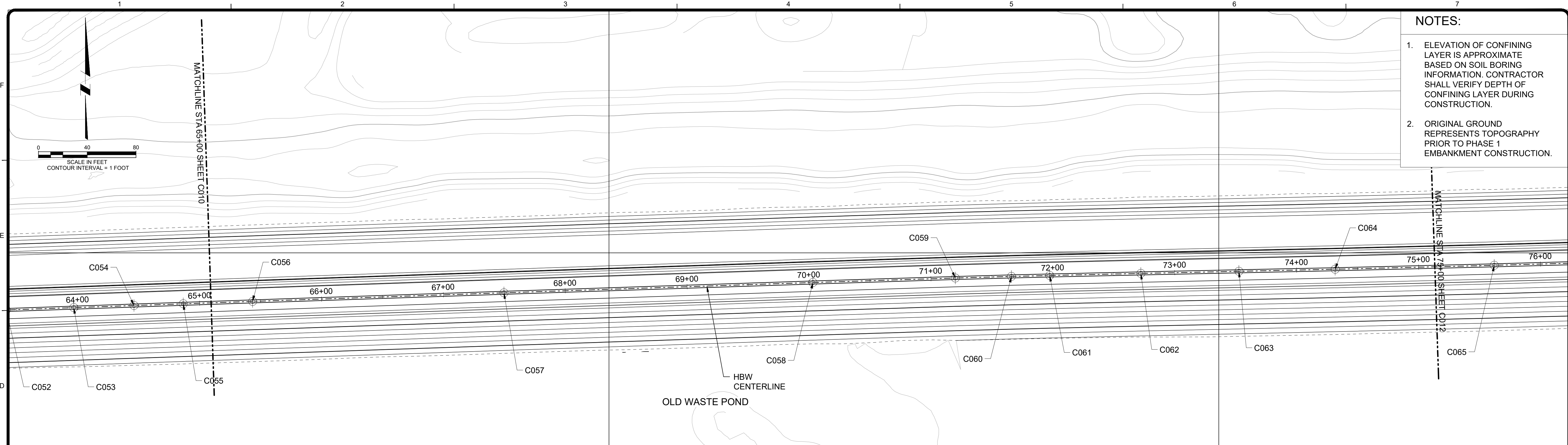
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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 55+00 TO STA. 65+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C010

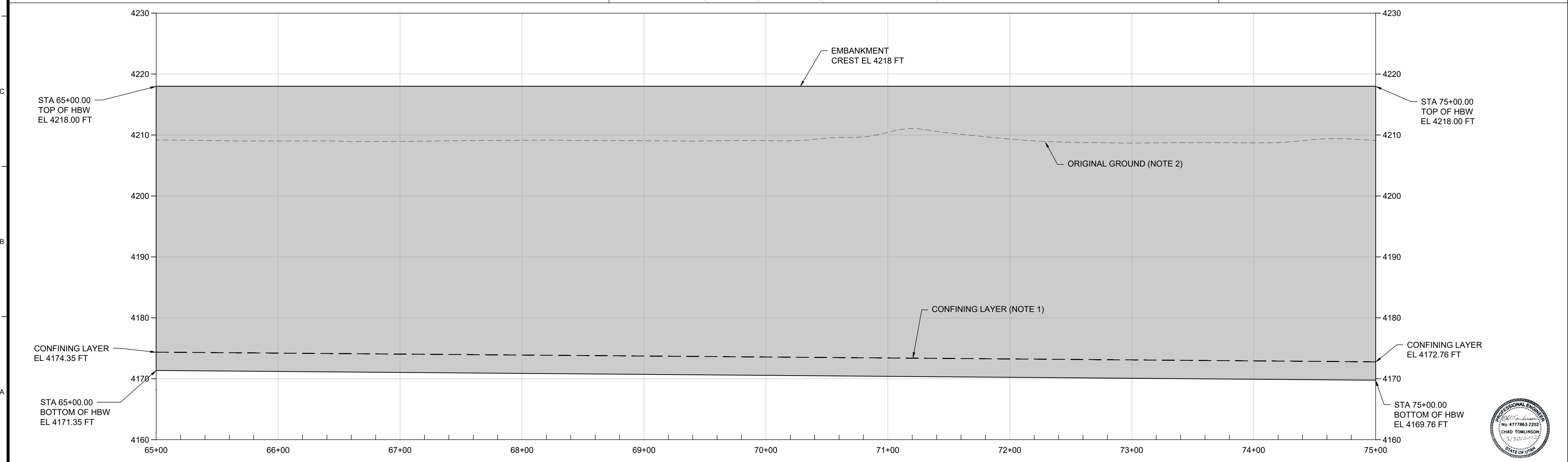
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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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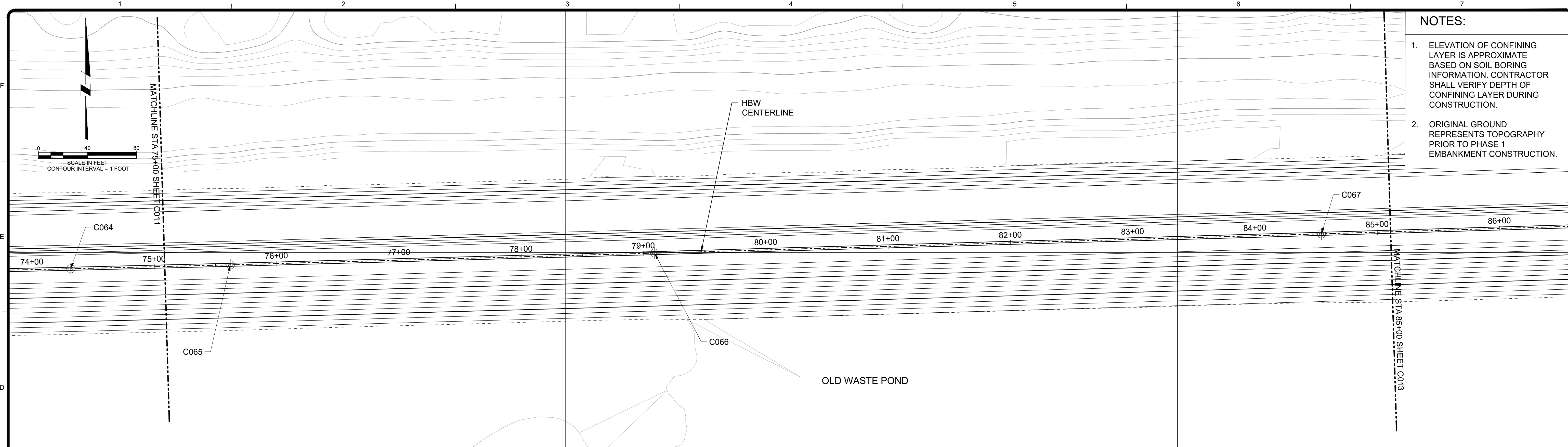
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HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
STA. 65+00 TO STA. 75+00**

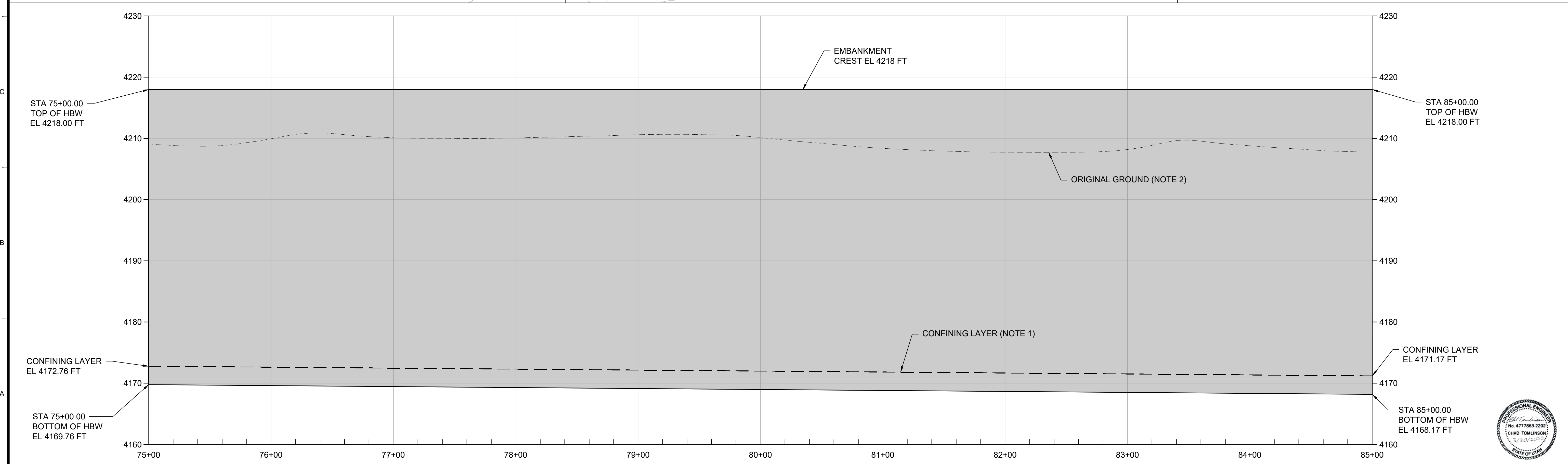
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Checked By: CT
C011

Bar Measures 1 inch

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- NOTES:**
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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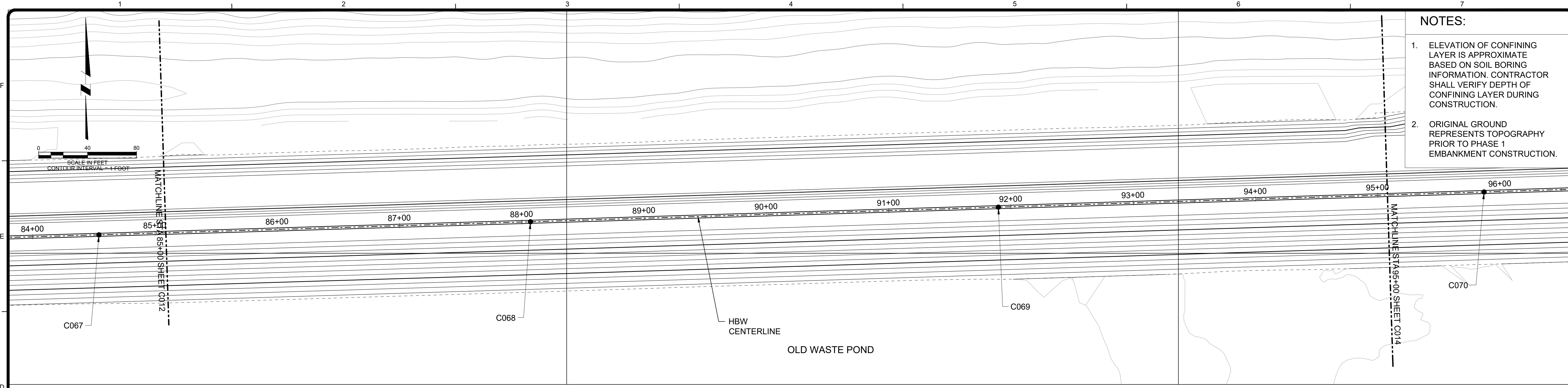
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 HYDRAULIC BARRIER WALL DESIGN
 SLURRY PLAN AND PROFILE
 STA. 75+00 TO STA. 85+00

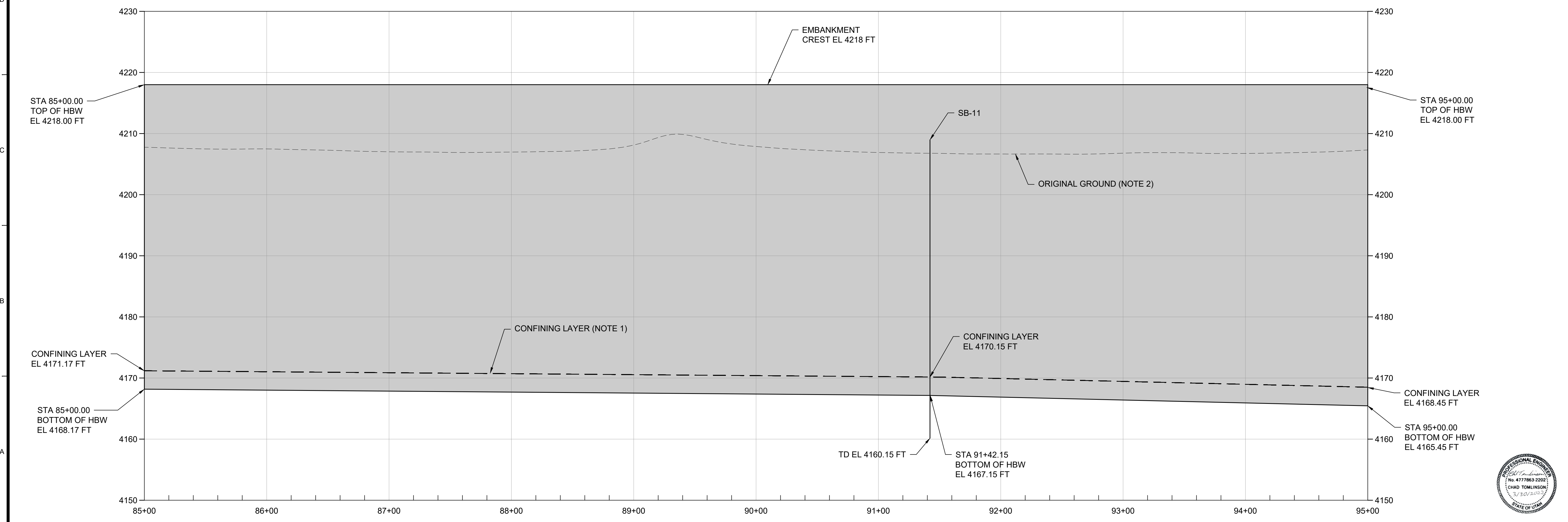
Project No.: 117-8733004
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 Checked By: CT
C012

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
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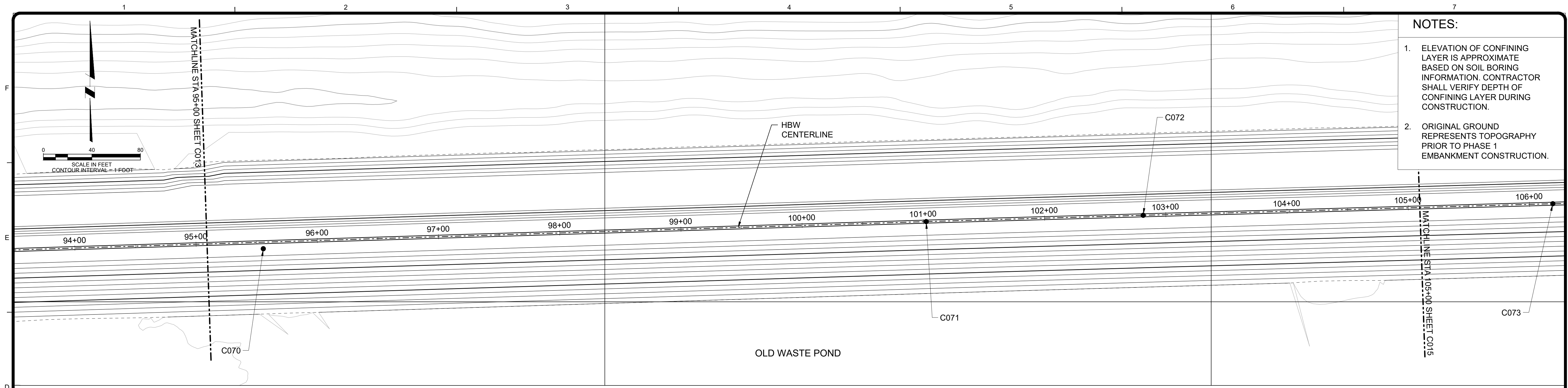
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 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 85+00 TO STA. 95+00**

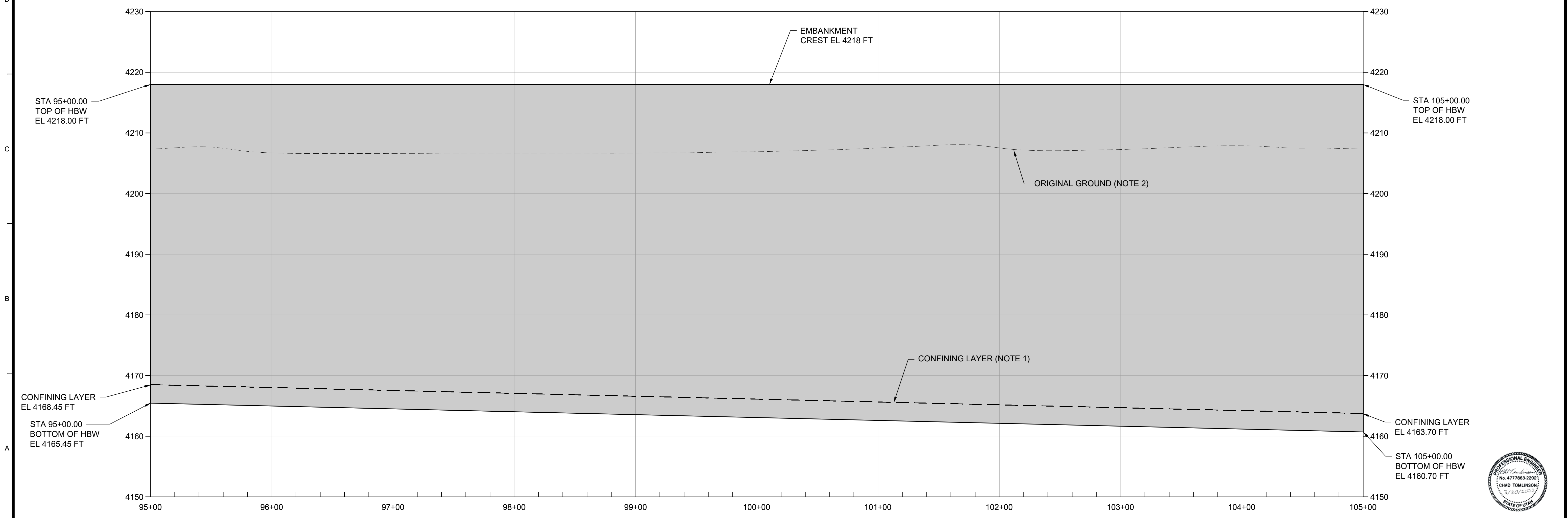
Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C013

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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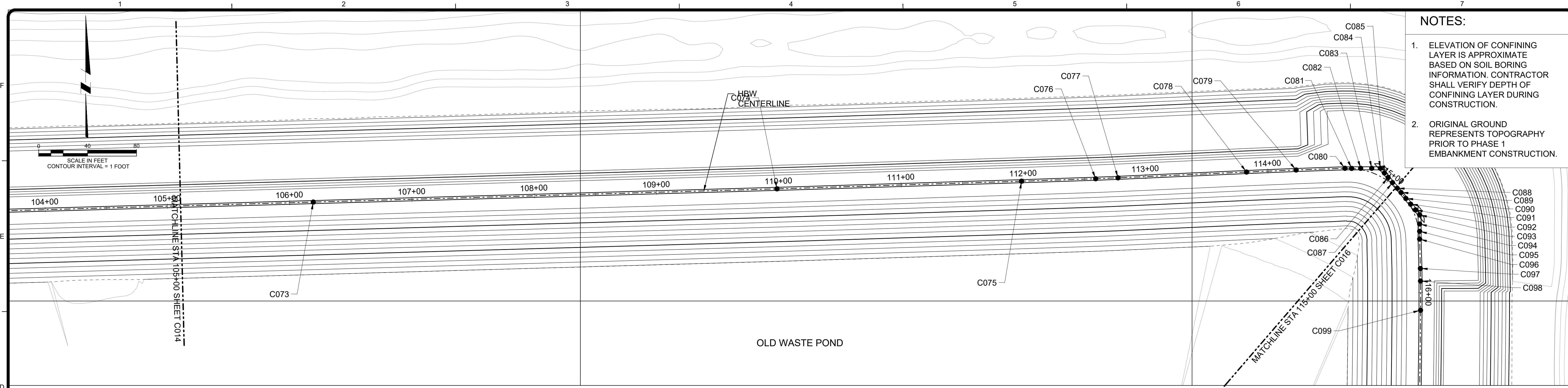
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
 GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 95+00 TO STA. 105+00**

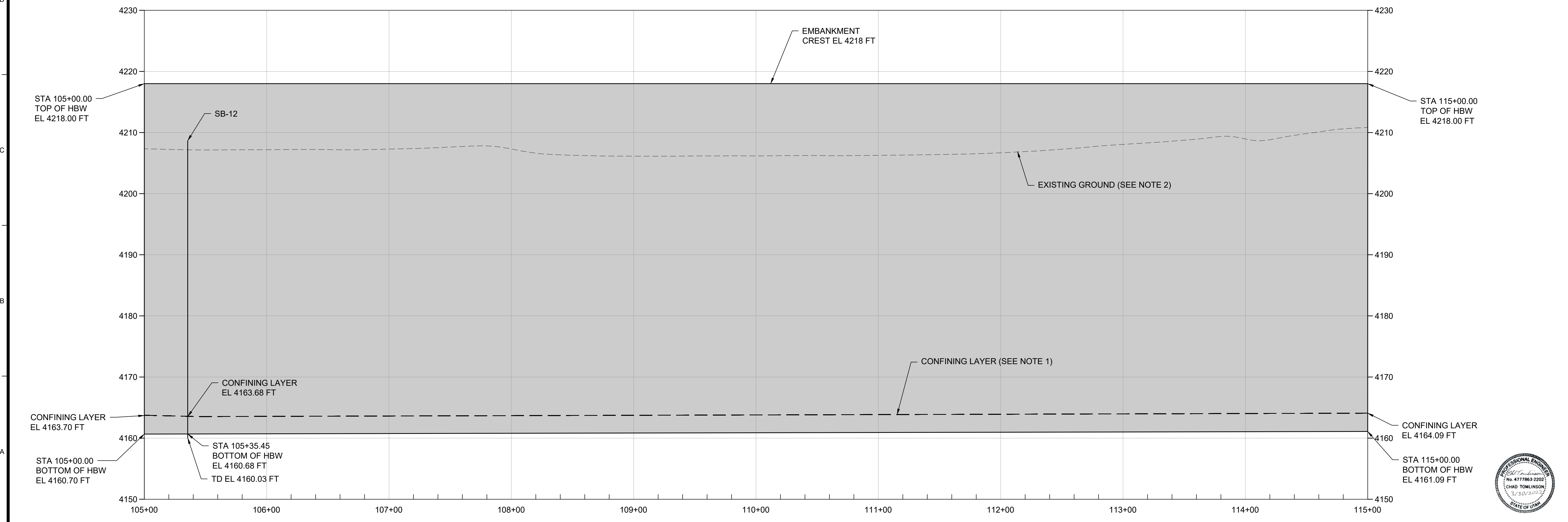
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 Drawn By: JSS
 Checked By: CT
C014

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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USmag

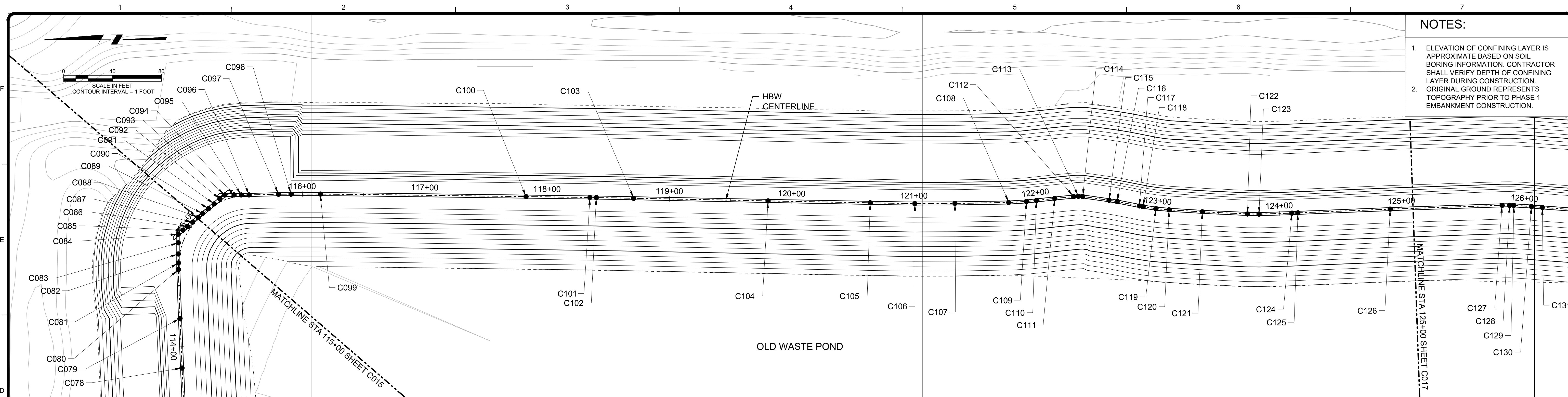
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
 GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 105+00 TO STA. 115+00**

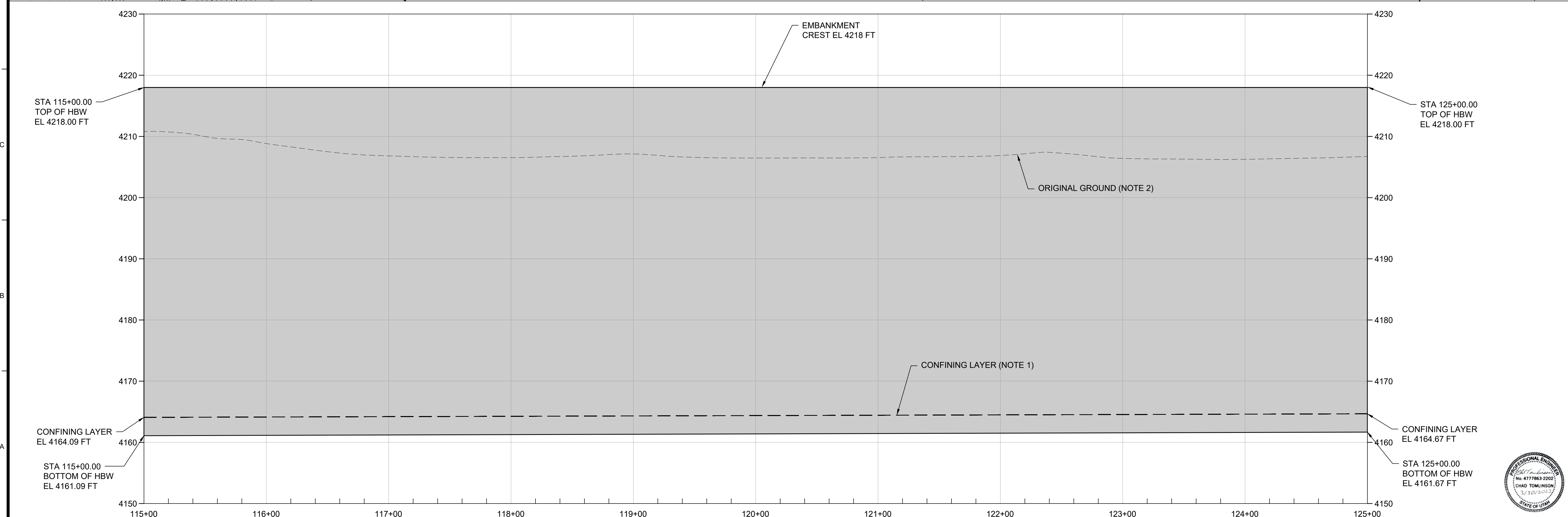
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 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C015

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

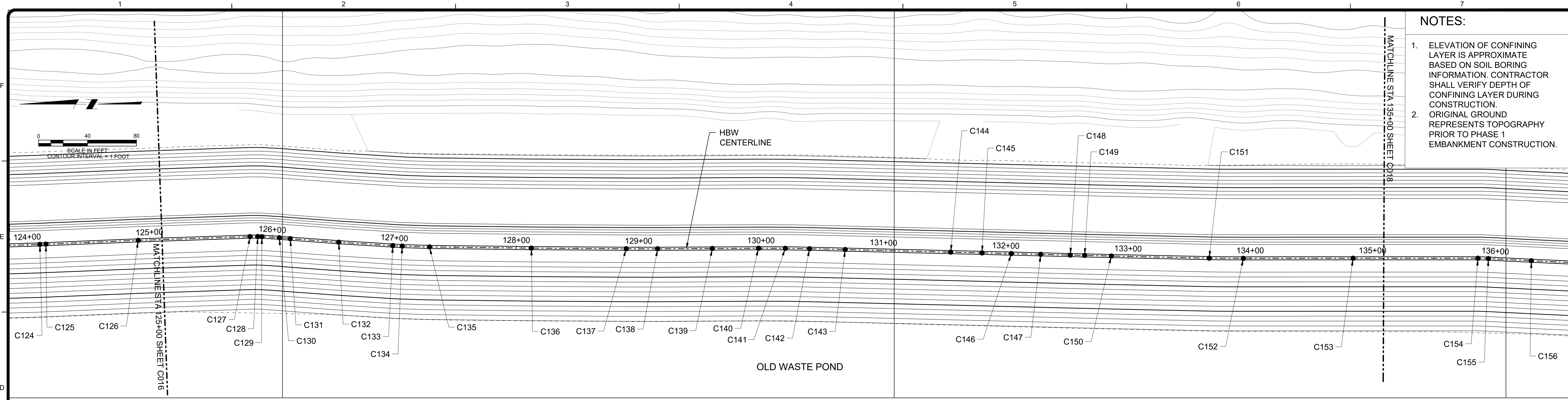
US MAGNESIUM
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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 115+00 TO STA. 125+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C016

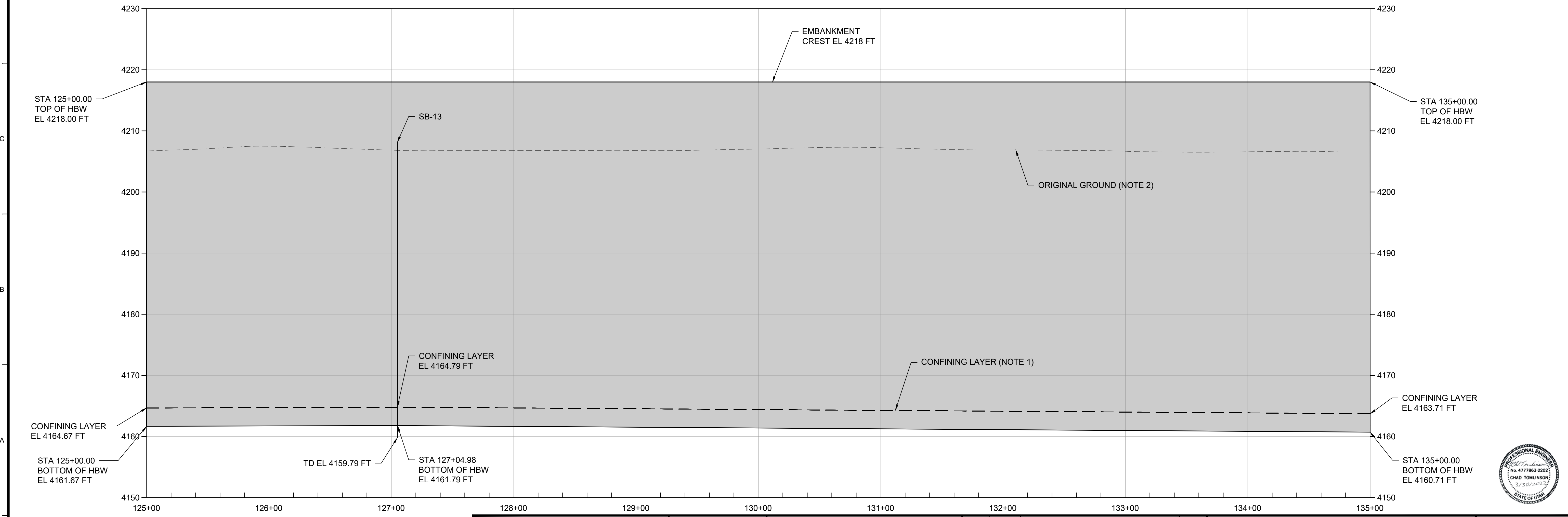
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Bar Measures 1 inch

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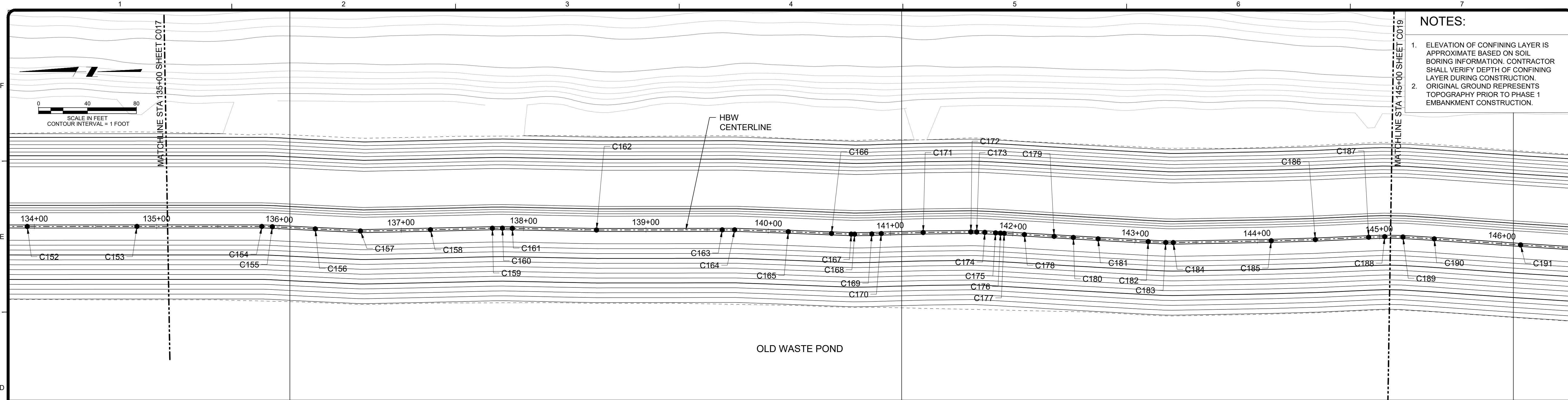


- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

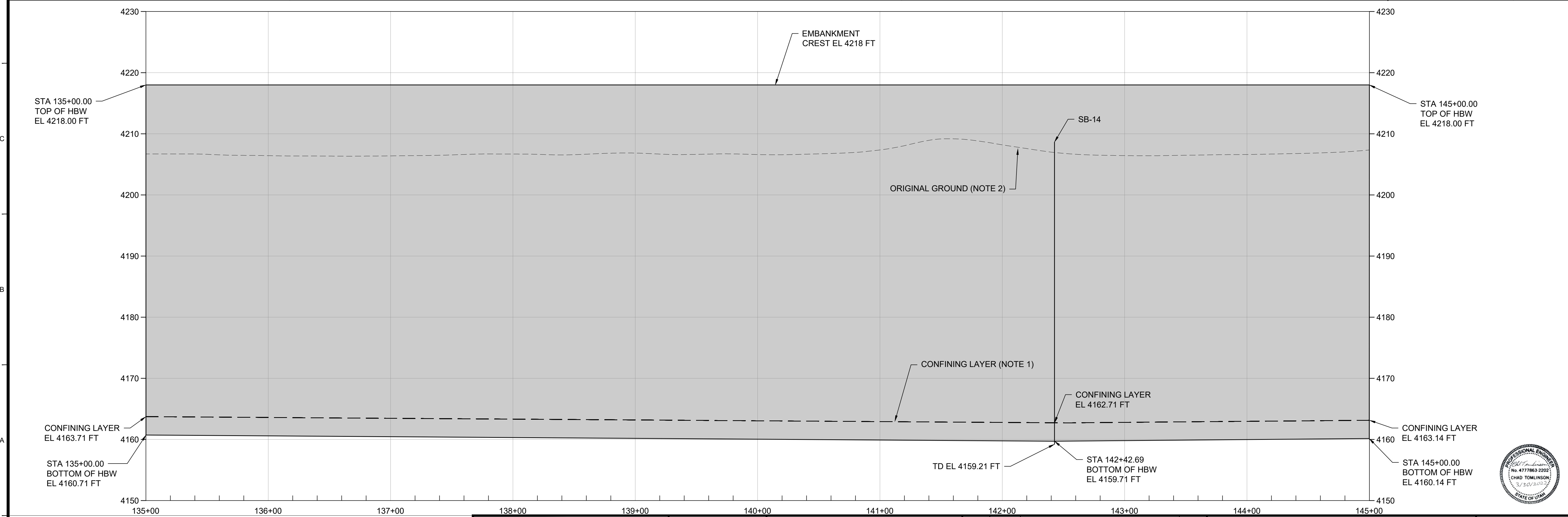


<p>TETRA TECH www.tetrattech.com 4750 West 2100 South, Suite 400 Salt Lake City, Utah 84120 PHONE: 801-972-9100</p>		<table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>11/12/21</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CT</td> </tr> <tr> <td>1</td> <td>03/30/22</td> <td>ISSUED FOR CONSTRUCTION</td> <td>CT</td> </tr> </tbody> </table>	MARK	DATE	DESCRIPTION	BY	0	11/12/21	ISSUED FOR CONSTRUCTION	CT	1	03/30/22	ISSUED FOR CONSTRUCTION	CT	<p>US MAGNESIUM GRANTSVILLE, UTAH</p> <p>PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN</p> <p>SLURRY WALL PLAN AND PROFILE STA. 125+00 TO STA. 135+00</p>	<p>Project No.: 117-8733004 Designed By: CT Drawn By: JSS Checked By: CT</p> <p>C017</p>
		MARK	DATE	DESCRIPTION	BY											
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT													
<p>Bar Measures 1 inch</p>																

4/1/2022 8:35 AM - C:\R-DRIVE\TETRA\ZUS MAGNESIUM\LC117-8733003 - COA AND EOR SERVICES\07-CAD\SHSHEETFILES\PHASE 2\RWP-SLURRY WALL-C018-SLURRY WALL PLAN AND PROFILE STA 135+00 TO 145+00.DWG



- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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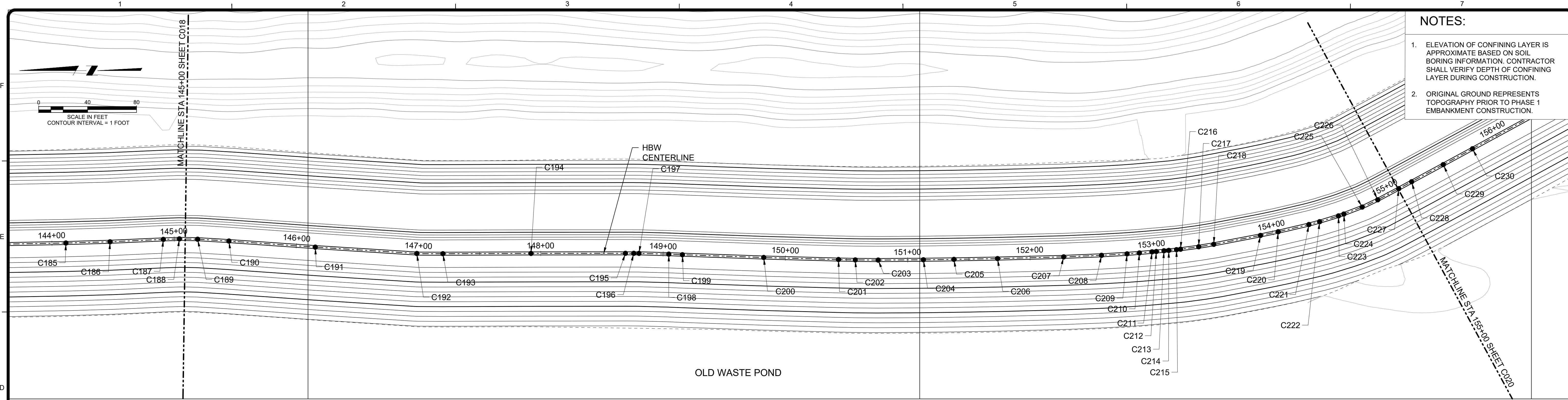
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
STA. 135+00 TO STA. 145+00**

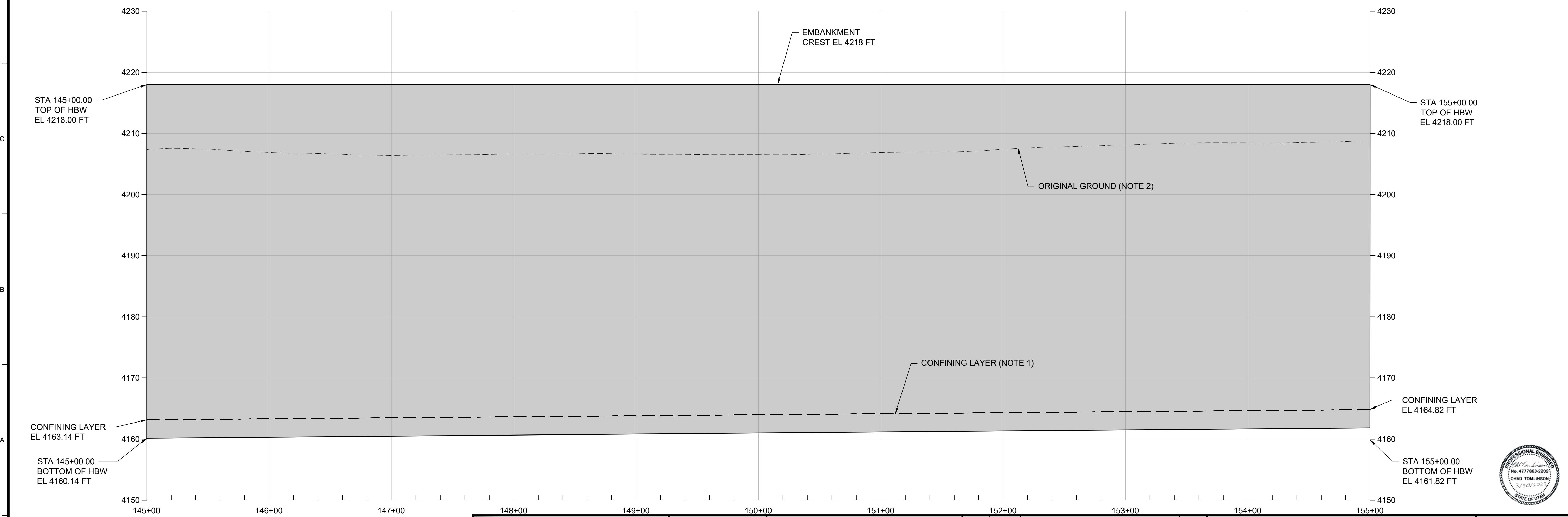
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Drawn By: JSS
Checked By: CT
C018

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**

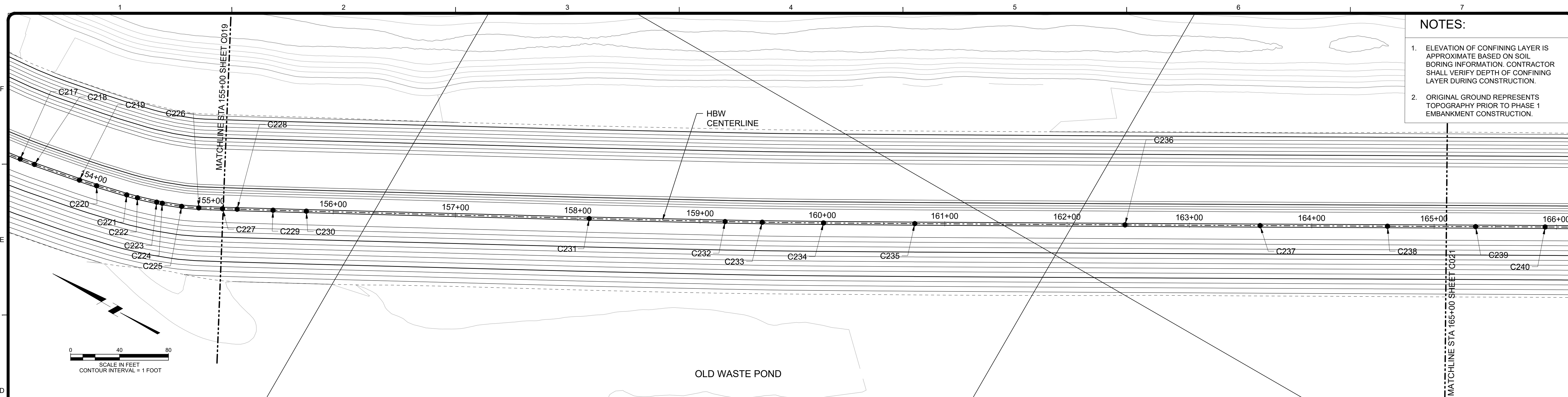
**SLURRY WALL PLAN AND PROFILE
 STA. 145+00 TO STA. 155+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT

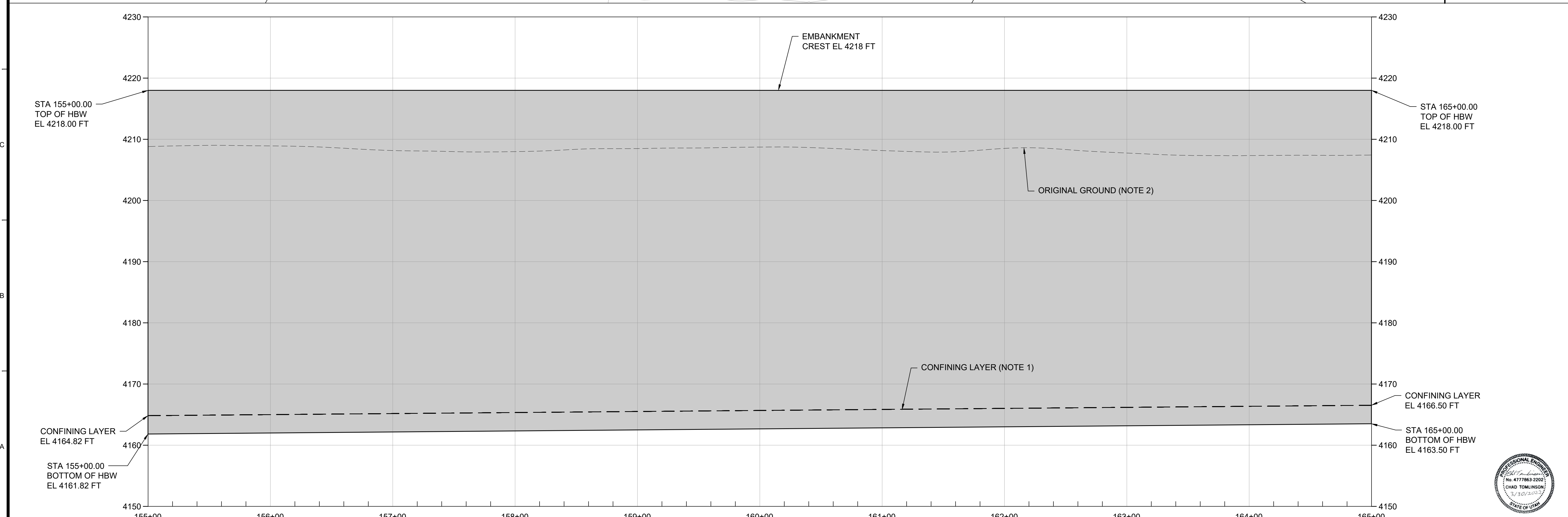
C019

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.

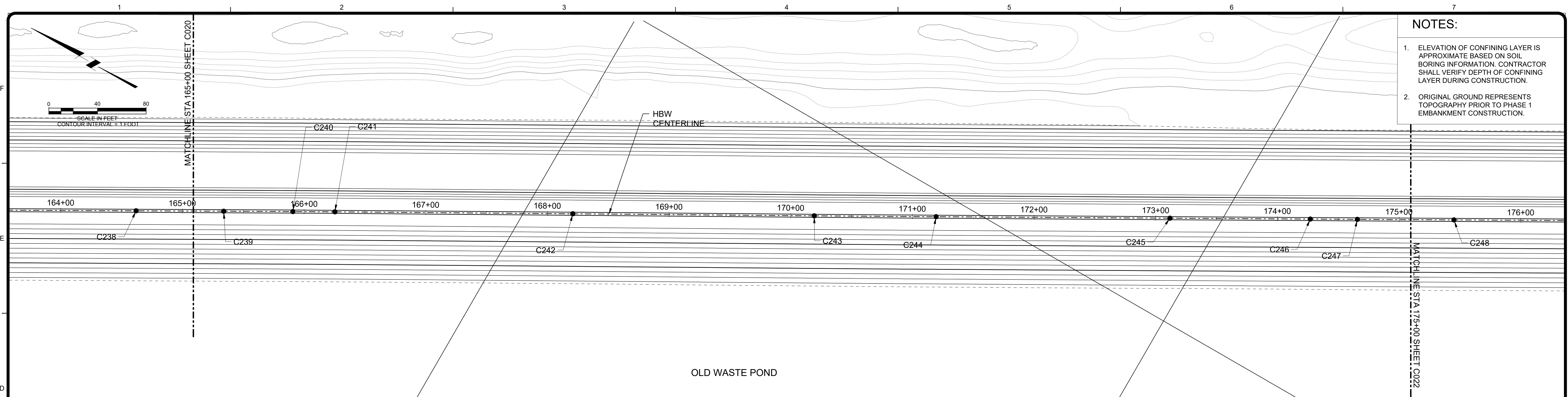


<p>TETRA TECH www.tetratech.com 4750 West 2100 South, Suite 400 Salt Lake City, Utah 84120 PHONE: 801-972-9100</p>		MARK	DATE	DESCRIPTION	BY	US MAGNESIUM GRANTSVILLE, UTAH PHASE 2 RETROFITTED WASTE POND HYDRAULIC BARRIER WALL DESIGN SLURRY WALL PLAN AND PROFILE STA. 155+00 TO STA. 165+00	Project No.: 117-8733004
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						C020	

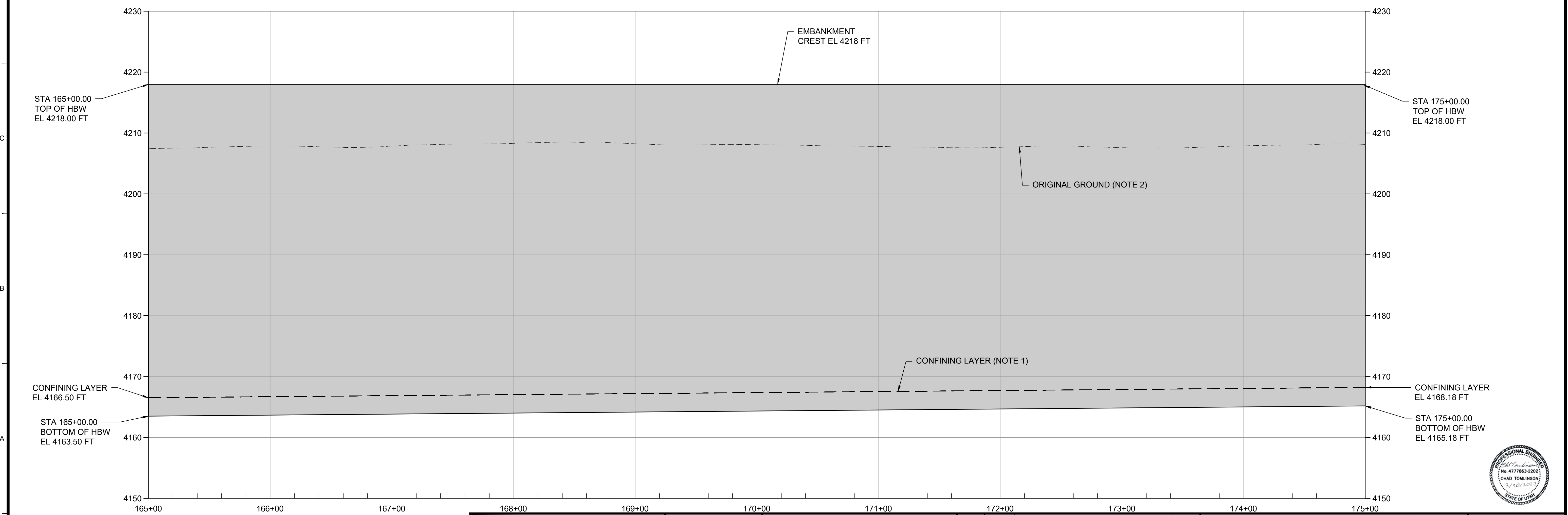
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Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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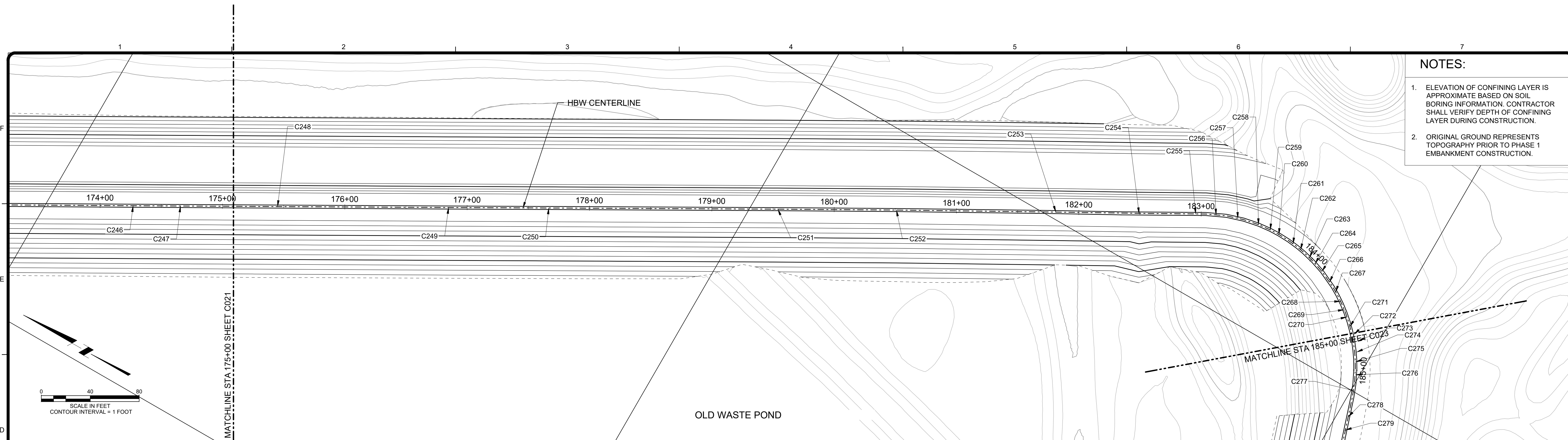
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
 GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 165+00 TO STA. 175+00**

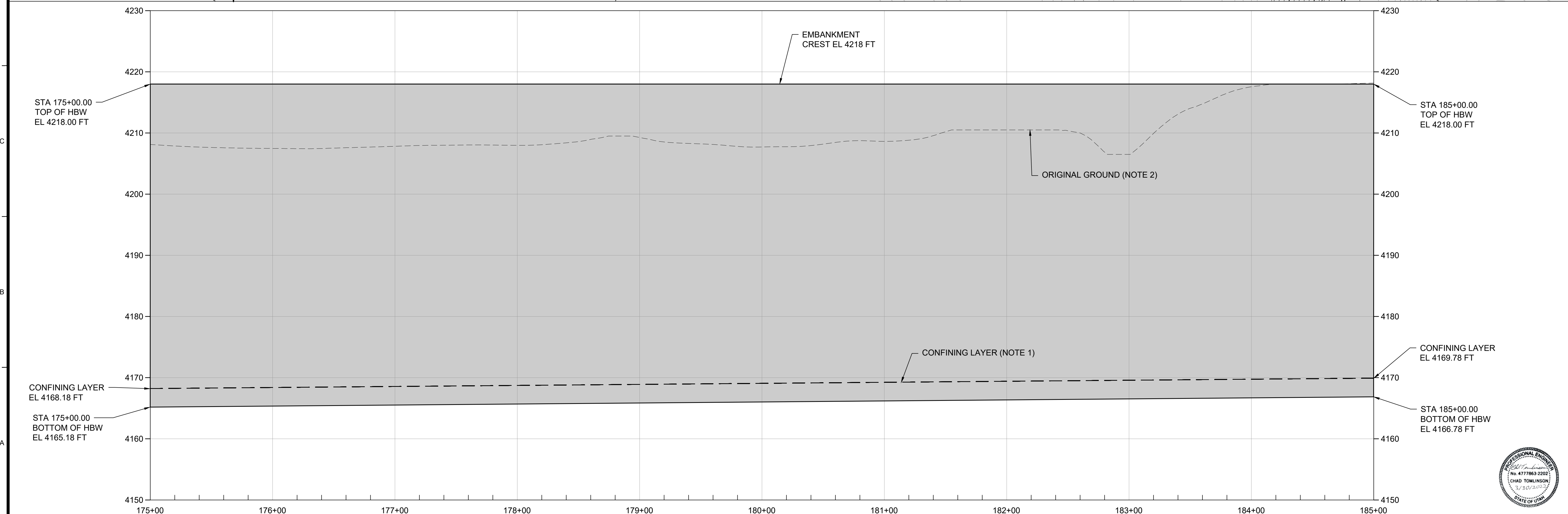
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 Drawn By: JSS
 Checked By: CT
C021

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

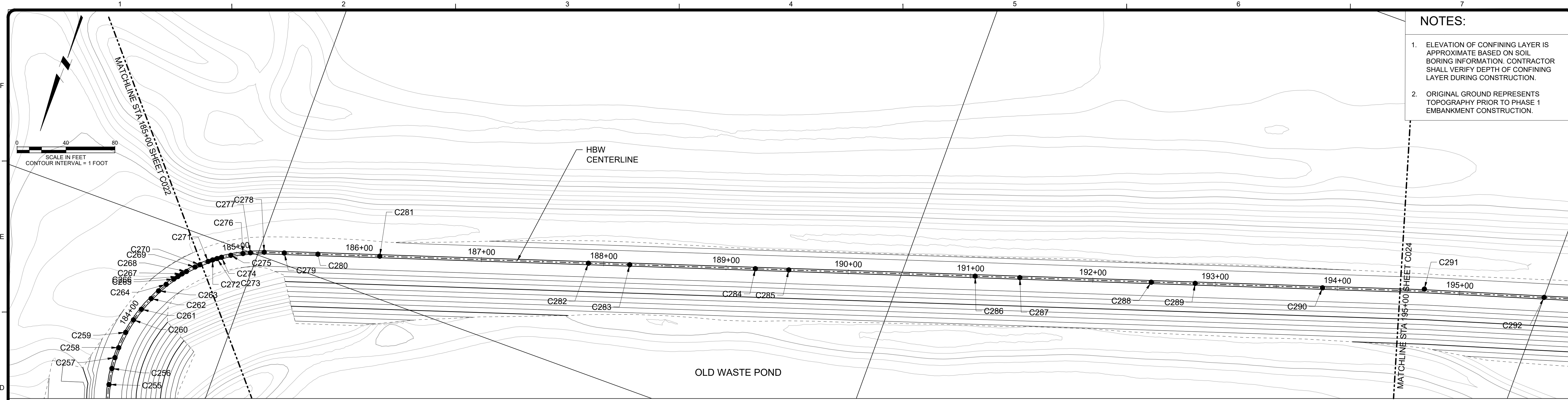
US MAGNESIUM
GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
**SLURRY WALL PLAN AND PROFILE
STA. 175+00 TO STA. 185+00**

Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
Checked By: CT
C022

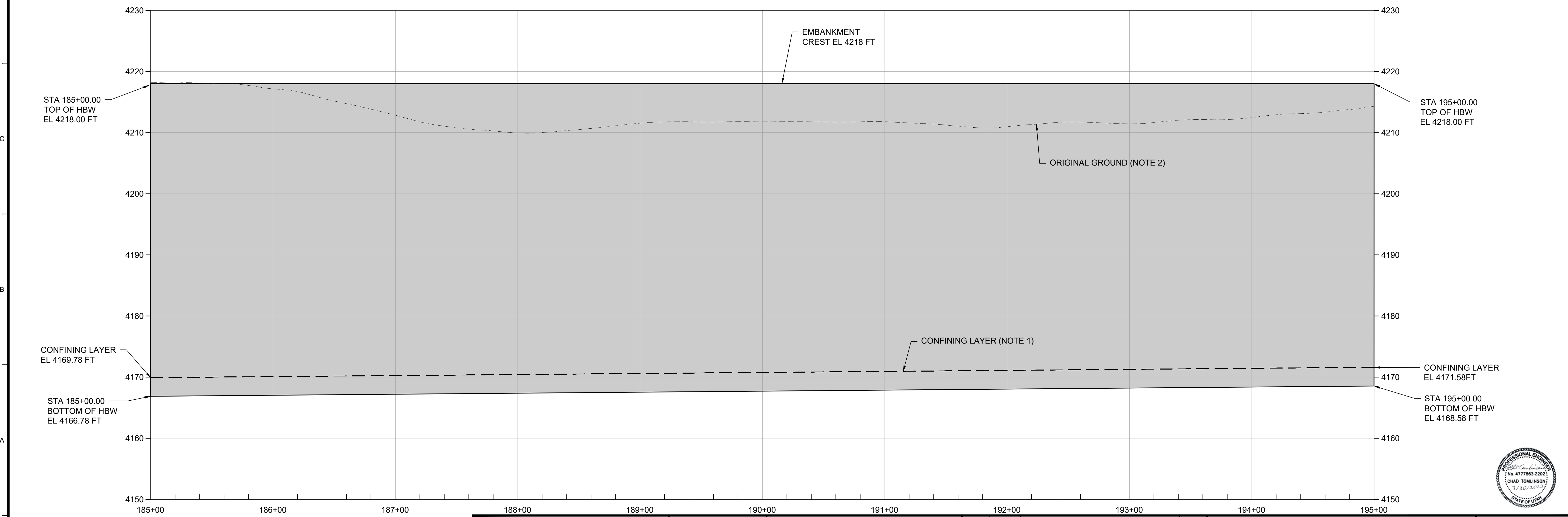
Bar Measures 1 inch

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- NOTES:**
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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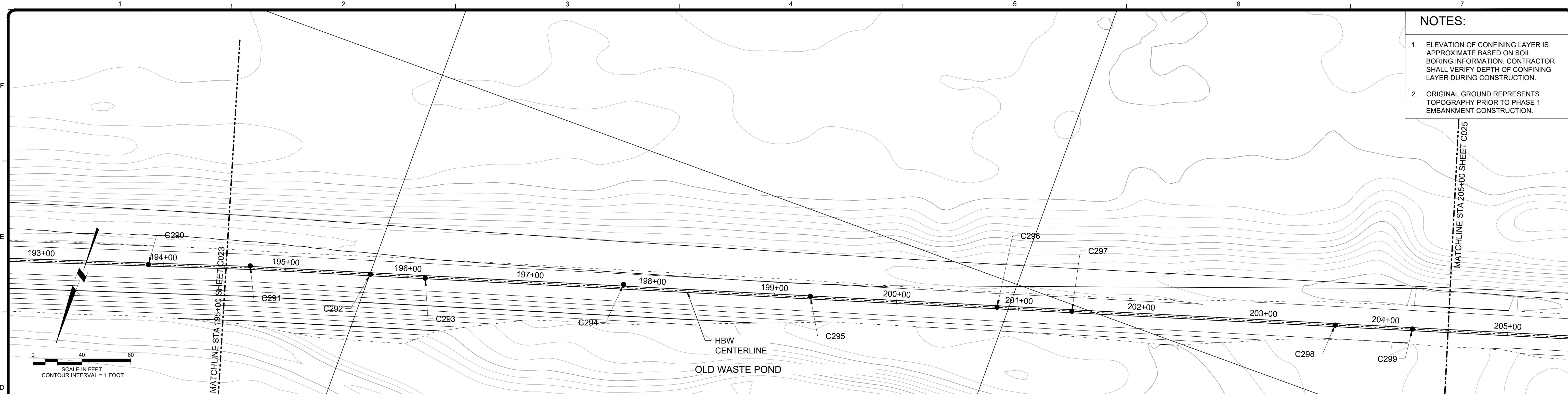
US MAGNESIUM
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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 185+00 TO STA. 195+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT
C023

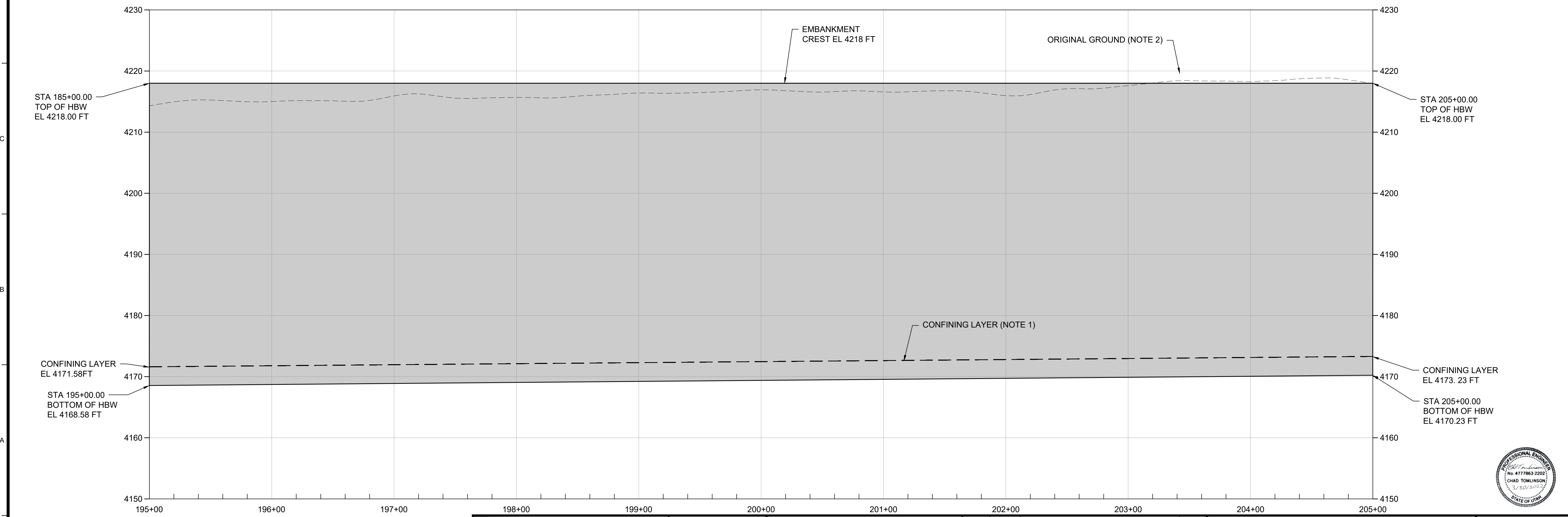
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Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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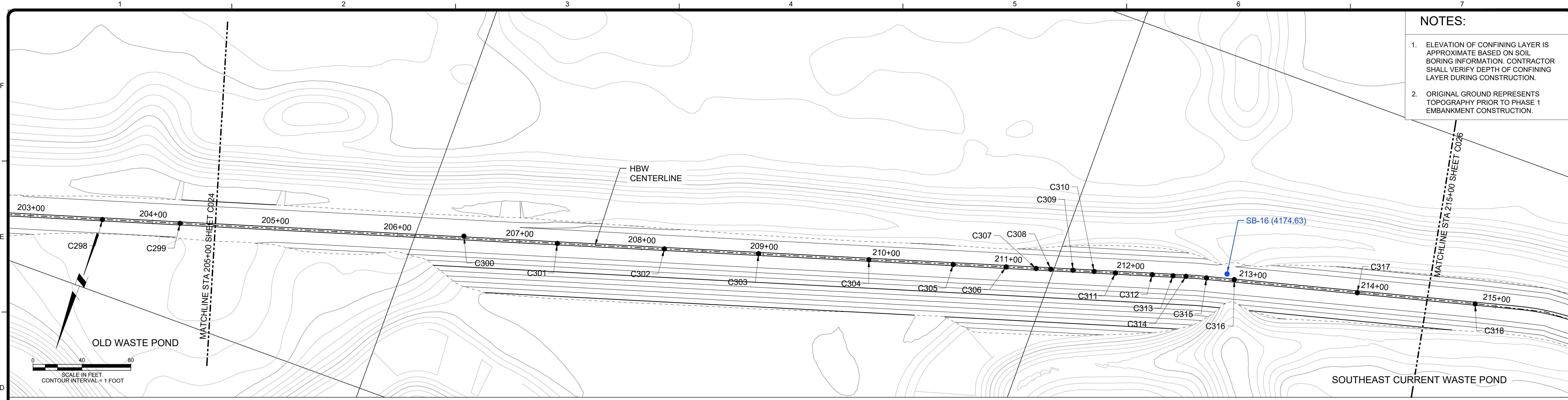
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
 GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 195+00 TO STA. 205+00**

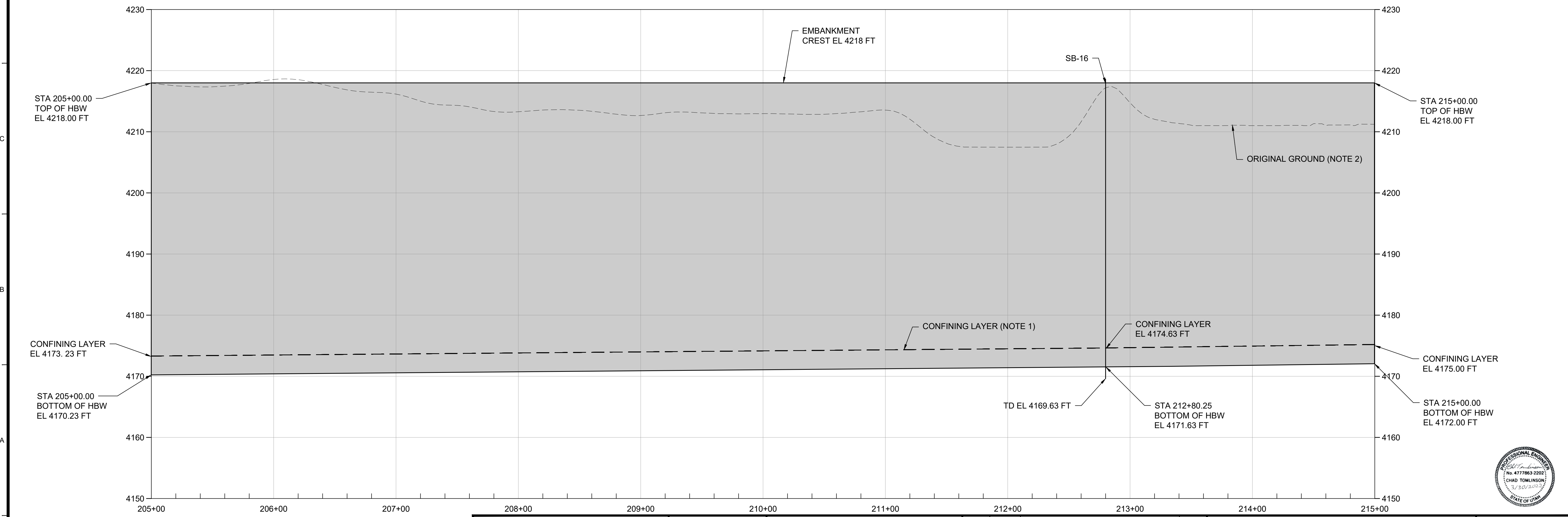
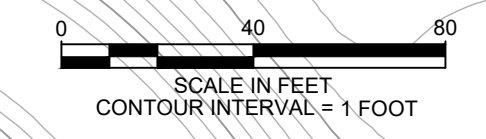
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C024

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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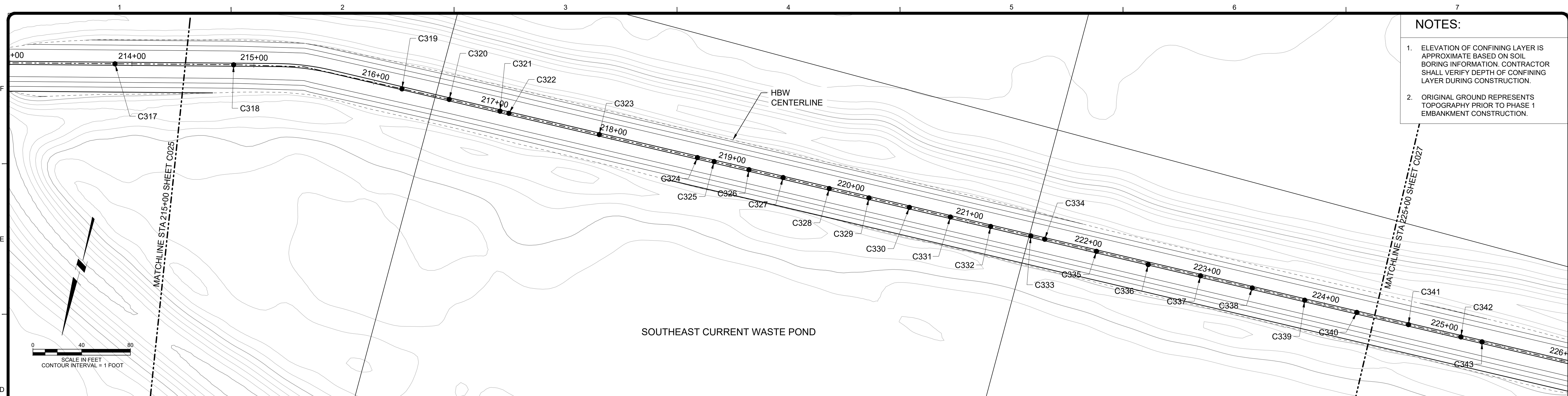
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US MAGNESIUM
GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
**SLURRY WALL PLAN AND PROFILE
STA. 205+00 TO STA 215+00**

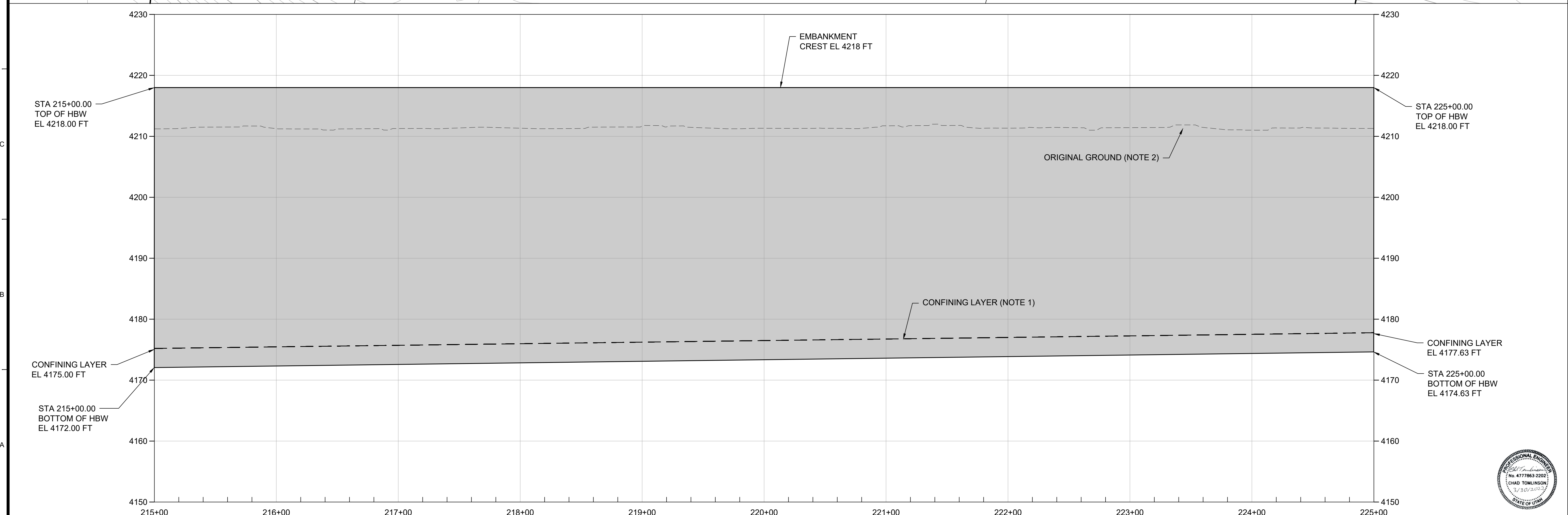
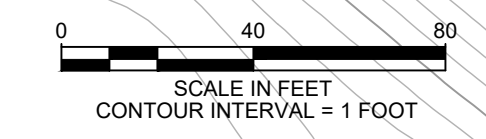
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Drawn By: JSS
Checked By: CT
C025

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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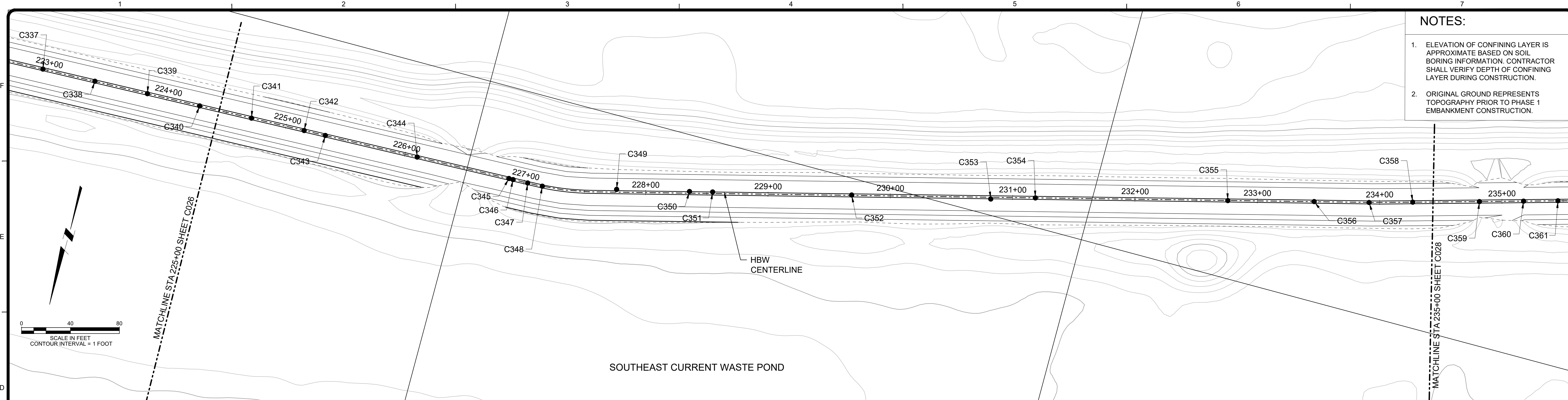
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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
GRANTSVILLE, UTAH
**PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
STA. 215+00 TO STA. 225+00**

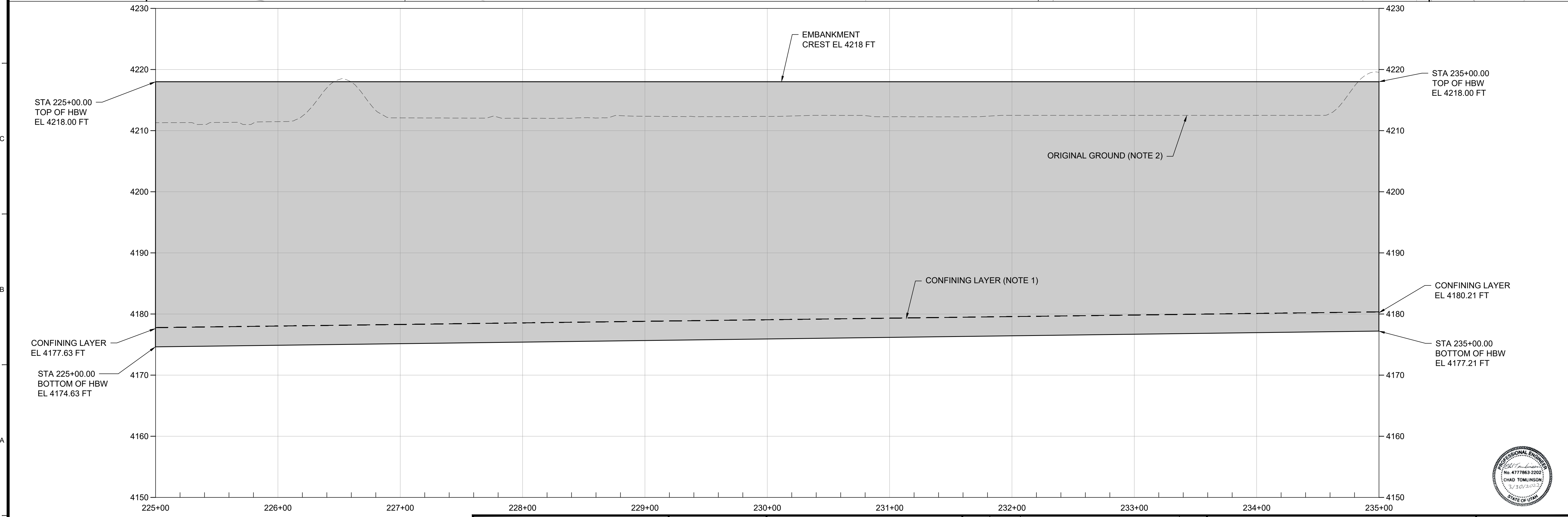
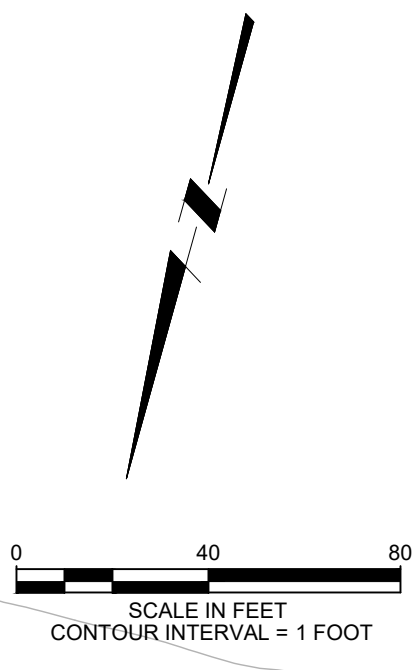
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Drawn By: JSS
Checked By: CT
C026

Bar Measures 1 inch

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- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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1	03/30/22	ISSUED FOR CONSTRUCTION	CT

US MAGNESIUM
 GRANTSVILLE, UTAH

**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**

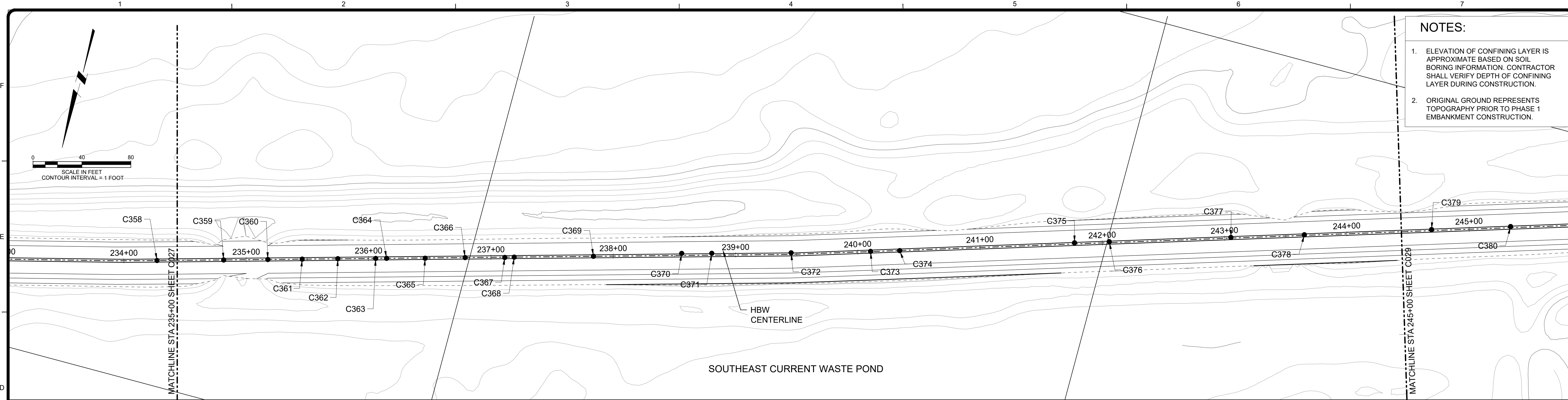
**SLURRY WALL PLAN AND PROFILE
 STA. 225+00 TO STA 235+00**

Project No.: 117-8733004
 Designed By: CT
 Drawn By: JSS
 Checked By: CT

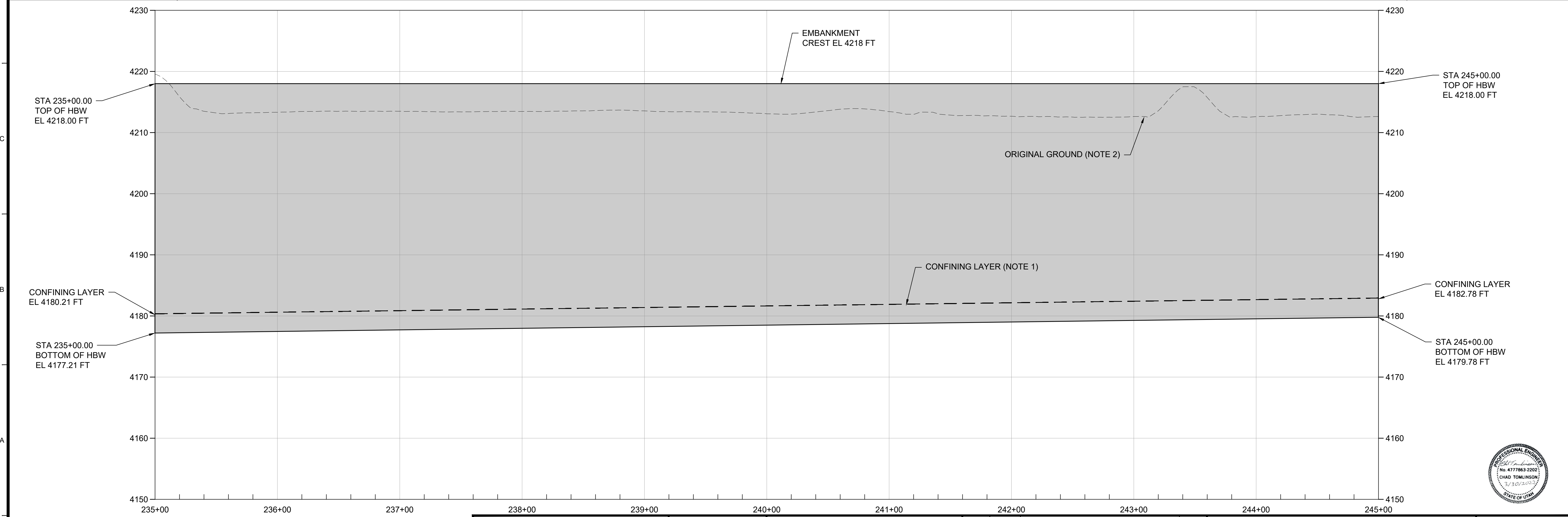
C027

Bar Measures 1 inch

3/31/2022 9:07 AM - C:_PDRIVE\IT_ZUS\MAGNESIUM.LLC\117-8733003 - COA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWPP-SLURRY WALL-C028-SLURRY WALL PLAN AND PROFILE STA. 235+00 TO 245+00.DWG



- NOTES:**
1. ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 2. ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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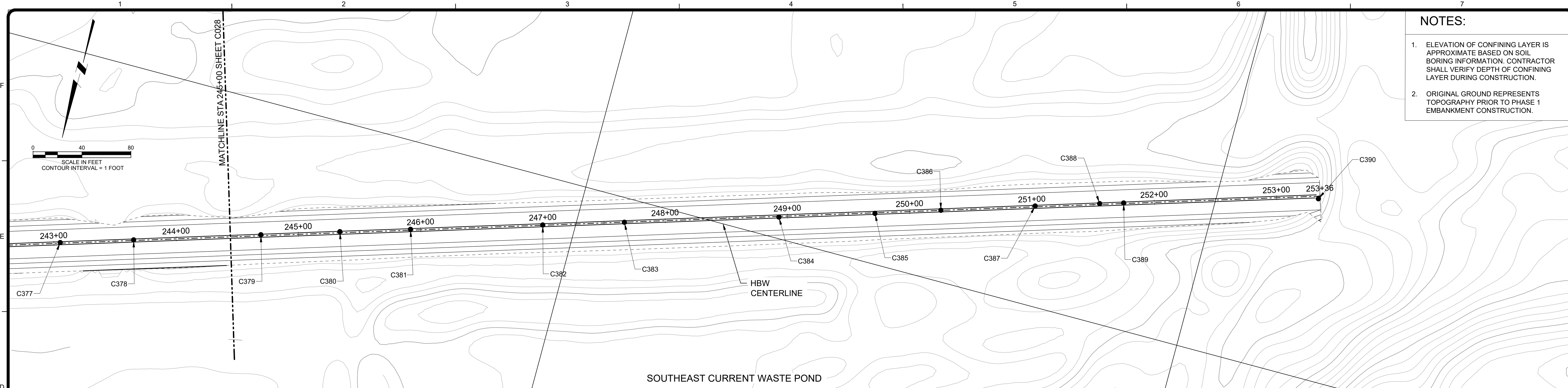
US MAGNESIUM
GRANTSVILLE, UTAH
PHASE 2 RETROFITTED WASTE POND
HYDRAULIC BARRIER WALL DESIGN
**SLURRY WALL PLAN AND PROFILE
STA. 235+00 TO STA. 245+00**

Project No.: 117-8733004
Designed By: CT
Drawn By: JSS
Checked By: CT
C028

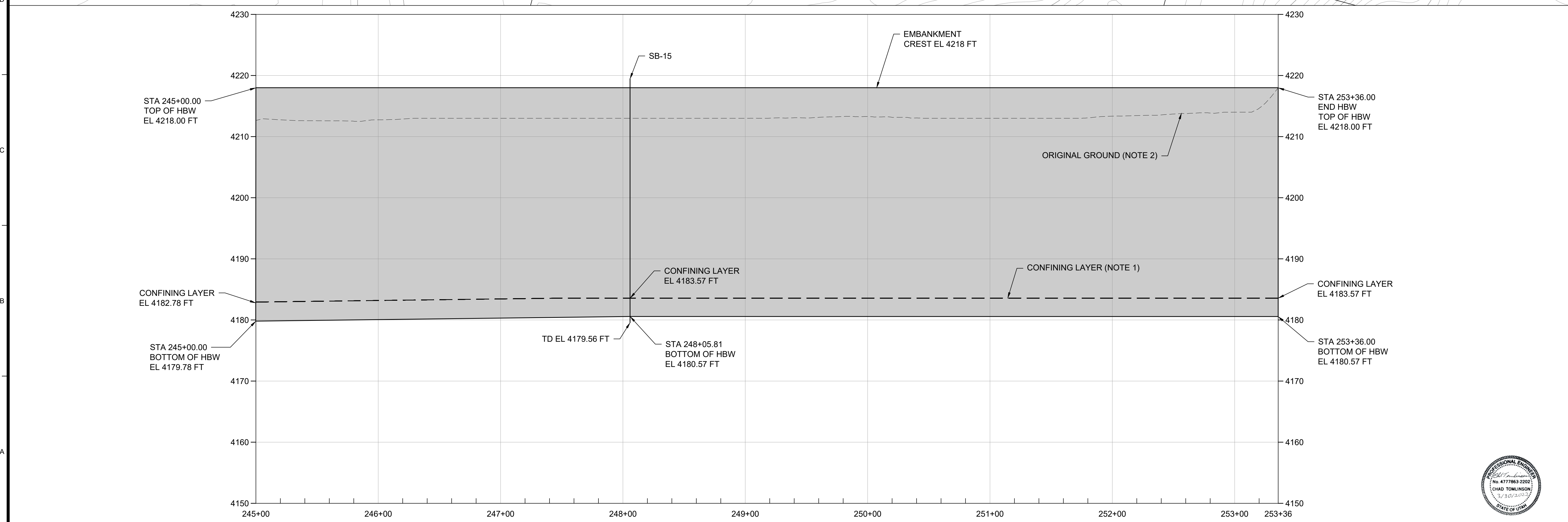
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Bar Measures 1 inch

3/31/2022 9:09 AM - C:\PDRIVE\IT-ZUS\MAGNESIUM.LLC\117-8733003 - COA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\HRWP-SLURRY WALL-C029-SLURRY WALL PLAN AND PROFILE STA 245+00 TO 255+00.DWG



- NOTES:**
- ELEVATION OF CONFINING LAYER IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR SHALL VERIFY DEPTH OF CONFINING LAYER DURING CONSTRUCTION.
 - ORIGINAL GROUND REPRESENTS TOPOGRAPHY PRIOR TO PHASE 1 EMBANKMENT CONSTRUCTION.



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US MAGNESIUM
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**PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN**
**SLURRY WALL PLAN AND PROFILE
 STA. 245+00 TO 255+00**

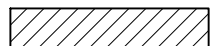
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 Drawn By: JSS
 Checked By: CT
C029

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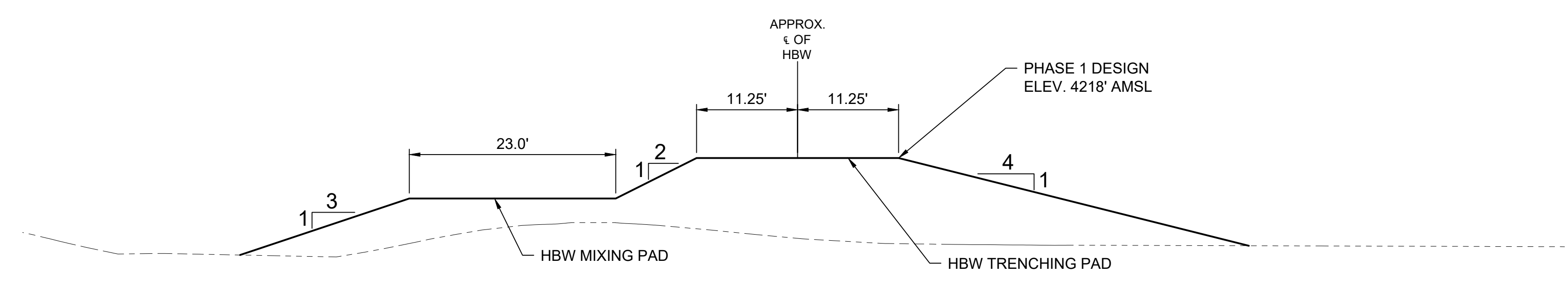
Bar Measures 1 inch

3/31/2022 9:09 AM - C:_PDRIVE_IT-ZUS MAGNESIUM.LLC\117-8733003 - COA AND EOR SERVICES\07-CAD SHEET FILES\PHASE 2\RWPSLURRY WALL-C030.TYPICAL HBW DETAILS.DWG

LEGEND:

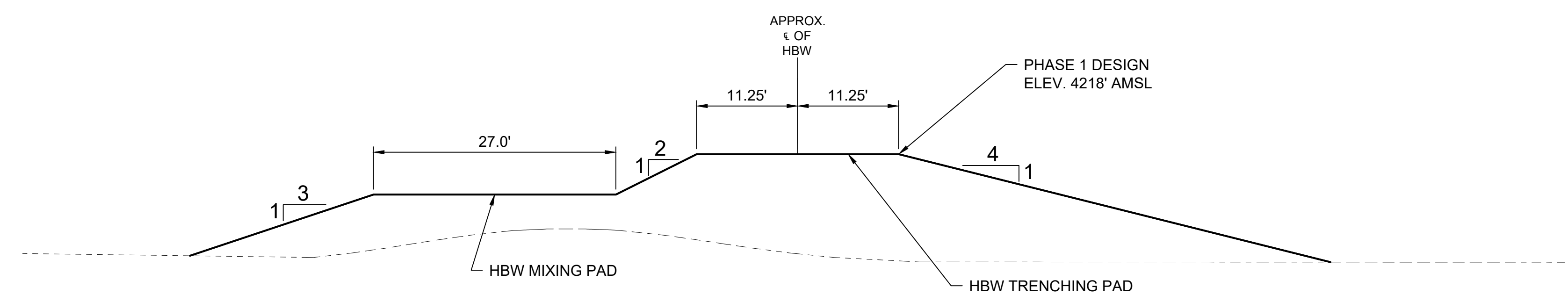
	OVER-EXCAVATE TO 2' BGS AND RECOMPACT
AMSL	ABOVE MEAN SEA LEVEL
BGS	BELOW GROUND SURFACE
ELEV	ELEVATION
HBW	HYDRAULIC BARRIER WALL
MIN	MINIMUM
OWP	OLD WASTE POND
STA	STATION

- NOTES:**
- TOP OF CONFINING LAYER SHALL BE VERIFIED DURING EXCAVATION BY SAMPLING EXCAVATION POILS.
 - HBW SHALL EXTEND ONE SHOVEL LENGTH (A MINIMUM OF 3 FT) INTO CONFINING LAYER.
 - SUBGRADE PREPARATION TO BE PERFORMED IN ACCORDANCE WITH EARTHWORK SPECIFICATION 02222-EARTHWORKS.
 - HBW SHALL BE A MINIMUM OF 2.5' WIDE BUT MAY BE INCREASED TO ACCOMMODATE CONTRACTOR EQUIPMENT.
 - HBW TO BE INSTALLED IN ACCORDANCE WITH SPECIFICATION 02266-HYDRAULIC BARRIER WALL.



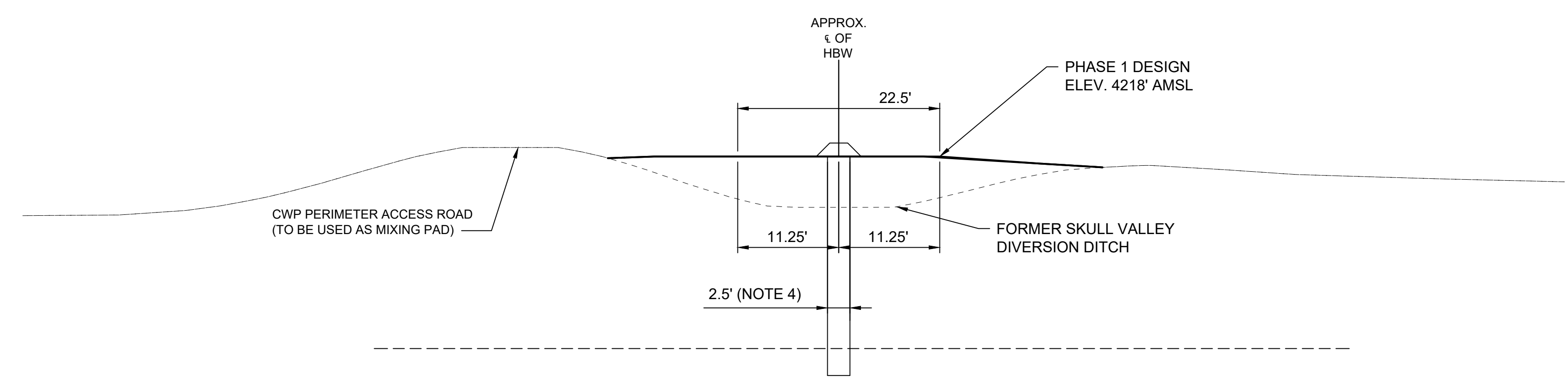
1 TYPICAL EMBANKMENT DETAIL
 STA 45+00 TO STA 95+00

0 10 20
 SCALE IN FEET



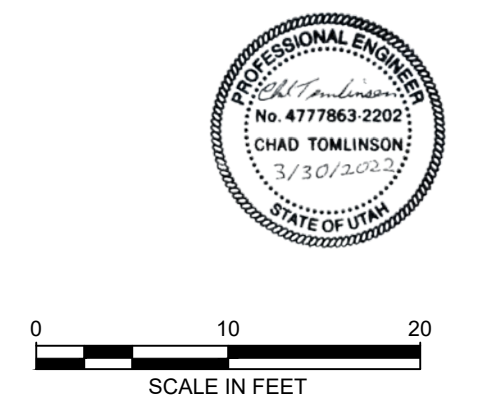
2 TYPICAL EMBANKMENT DETAIL
 STA 95+00 TO STA 183+48

0 10 20
 SCALE IN FEET



3 TYPICAL EMBANKMENT DETAIL
 STA 183+48 TO STA 253+36

0 10 20
 SCALE IN FEET



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US MAGNESIUM
 GRANTSVILLE, UTAH

PHASE 2 RETROFITTED WASTE POND
 HYDRAULIC BARRIER WALL DESIGN

TYPICAL
 HBW
 DETAILS

Project No.:	117-8733004
Designed By:	CT
Drawn By:	JSS
Checked By:	CT
C030	

Bar Measures 1 inch

3/30/2022 3:16 PM - C:\PDRIVE\IT-ZUS\MAGNESIUM\LLC\117-8733003 - COA AND EOR SERVICES\07-CAD\SHEETFILES\PHASE 2\RWPP-SLURRY WALL-C031 CONTROL POINT TABLES.DWG

HBW CENTERLINE CONTROL POINT TABLE			
ID	EASTING	NORTHING	BOTTOM ELEVATION OF HBW (FT)(NOTE 1)
C001	1296396.3	7509737.473	4193.71
C002	1297171.6	7510081.591	4193.71
C003	1297367.7	7510167.17	4193.71
C004	1298098.2	7510511.549	4192.15
C005	1298309.2	7510616.187	4190.71
C006	1298767.6	7510833.141	4187.59
C007	1298867	7510877.877	4186.92
C008	1298935	7510917.788	4186.44
C009	1298980.6	7510955.407	4186.13
C010	1299011.1	7511012.249	4187.83
C011	1299048.5	7511094.048	4187.4
C012	1299085	7511172.761	4186.96
C013	1299152	7511297.019	4186.35
C014	1299250.7	7511425.086	4185.65
C015	1299305.7	7511486.155	4185.25
C016	1299412.4	7511554.812	4182.63
C017	1299590.7	7511661.037	4181.66
C018	1299662.6	7511697.802	4181.28
C019	1299676.2	7511704.108	4181.21
C020	1299802.2	7511756.886	4180.57
C021	1299830.2	7511766.234	4180.43
C022	1300028.5	7511816.375	4179.47
C023	1300157	7511841.742	4178.85
C024	1300195.2	7511848.553	4178.67
C025	1300205.2	7511852.494	4178.62
C026	1300244	7511856.564	4178.44
C027	1300260.9	7511859.189	4178.36
C028	1300327.9	7511869.1	4178.04
C029	1300392.5	7511877.623	4177.73
C030	1300468.2	7511886.365	4177.37
C031	1300504	7511889.735	4177.2
C032	1300527.3	7511891.465	4177.1
C033	1300561.4	7511892.794	4176.93
C034	1300659.6	7511895.381	4176.47
C035	1300858	7511900.113	4175.54
C036	1300908	7511901.426	4175.31
C037	1301091	7511906.739	4174.45
C038	1301155.5	7511908.783	4174.15
C039	1301391.3	7511916.766	4173.04
C040	1301459.4	7511919.2	4172.72
C041	1301466	7511919.447	4172.67
C042	1301518.2	7511921.529	4172.44
C043	1301600.8	7511924.87	4172.05
C044	1301715.4	7511929.526	4171.51
C045	1301779.4	7511932.162	4171.21
C046	1301839.9	7511934.661	4170.93
C047	1301873.6	7511935.853	4170.77
C048	1302118.1	7511942.904	4170.24
C049	1302186	7511944.763	4170.13
C050	1302387.8	7511949.754	4169.81
C051	1302417.5	7511950.443	4169.76
C052	1302505.8	7511953.15	4169.62
C053	1302561.1	7511955.08	4169.53
C054	1302610.5	7511956.803	4169.45
C055	1302650.9	7511958.21	4169.39
C056	1302707.7	7511960.193	4169.3
C057	1302913.8	7511967.259	4168.97
C058	1303167.2	7511975.688	4168.57
C059	1303284	7511979.396	4168.38
C060	1303330	7511980.682	4168.31
C061	1303361.4	7511981.446	4168.26
C062	1303436.1	7511983.154	4168.14
C063	1303516.5	7511984.888	4168.01
C064	1303595.4	7511986.591	4167.89
C065	1303725.9	7511988.803	4167.68
C066	1304072.7	7511999.356	4167.13
C067	1304617.7	7512015.102	4166.26
C068	1304970.4	7512025.774	4165.7
C069	1305352.8	7512037.729	4164.97
C070	1305749.9	7512050.144	4163.08
C071	1306265	7512066.12	4160.63
C072	1306443.9	7512071.325	4159.78
C073	1306781.7	7512080.879	4158.57
C074	1307160.7	7512091.704	4158.79
C075	1307360.6	7512097.958	4158.91
C076	1307421.2	7512099.969	4158.95
C077	1307439.5	7512100.707	4158.96
C078	1307544.5	7512105.452	4159.02
C079	1307585.1	7512107.114	4159.04
C080	1307625	7512108.497	4159.06

HBW CENTERLINE CONTROL POINT TABLE			
ID	EASTING	NORTHING	BOTTOM ELEVATION OF HBW (FT)(NOTE 1)
C081	1307630.5	7512108.423	4159.07
C082	1307637.8	7512108.497	4159.07
C083	1307646.6	7512108.549	4159.07
C084	1307654	7512108.497	4159.07
C085	1307657.3	7512104.715	4159.07
C086	1307660.3	7512101.005	4159.08
C087	1307663.9	7512096.806	4159.08
C088	1307667.8	7512092.137	4159.09
C089	1307670.9	7512088.704	4159.09
C090	1307674.8	7512083.828	4159.1
C091	1307678.7	7512079.157	4159.1
C092	1307682.6	7512074.508	4159.1
C093	1307686	7512070.47	4159.11
C094	1307690	7512062.945	4159.11
C095	1307696	7512057.023	4159.12
C096	1307698	7512050.623	4159.12
C097	1307698.7	7512026.598	4159.13
C098	1307698.8	7512016.343	4159.14
C099	1307698.8	7511992.419	4159.15
C100	1307698.7	7511824.312	4159.25
C101	1307684	7511772.043	4159.28
C102	1307683.9	7511766.912	4159.28
C103	1307683.4	7511736.283	4159.3
C104	1307681.2	7511626.481	4159.36
C105	1307679.6	7511543.025	4159.41
C106	1307679	7511506.436	4159.43
C107	1307679.2	7511473.698	4159.45
C108	1307679.9	7511429.709	4159.48
C109	1307680.7	7511415.282	4159.49
C110	1307681.6	7511407.148	4159.49
C111	1307683.2	7511392.099	4159.5
C112	1307683.7	7511376.664	4159.51
C113	1307685	7511372.824	4159.51
C114	1307639.6	7511369.234	4159.51
C115	1307681.7	7511347.757	4159.53
C116	1307680.6	7511341.113	4159.53
C117	1307677.1	7511322.902	4159.54
C118	1307639	7511319.924	4159.54
C119	1307674.9	7511309.414	4159.55
C120	1307639.3	7511298.896	4159.56
C121	1307672.3	7511271.547	4159.57
C122	1307670.5	7511234.615	4159.59
C123	1307670.4	7511225.183	4159.6
C124	1307671.2	7511198.307	4159.61
C125	1307671.4	7511193.4	4159.62
C126	1307674.5	7511117.966	4159.66
C127	1307677.6	7511026.533	4159.71
C128	1307677.6	7511020.267	4159.72
C129	1307677.5	7511016.846	4159.72
C130	1307676.6	7511002.562	4159.73
C131	1307675.9	7510993.642	4159.73
C132	1307673	7510954.007	4159.76
C133	1307670.3	7510909.898	4159.78
C134	1307669.8	7510902.193	4159.79
C135	1307669.1	7510879.812	4159.77
C136	1307668.2	7510796.577	4159.66
C137	1307667.7	7510719.104	4159.55
C138	1307667.6	7510693.384	4159.52
C139	1307667.9	7510648.689	4159.46
C140	1307668.1	7510611.004	4159.41
C141	1307668	7510589.062	4159.38
C142	1307667.6	7510569.239	4159.35
C143	1307667	7510540.064	4159.31
C144	1307664.9	7510453.794	4159.19
C145	1307664.3	7510428.234	4159.16
C146	1307663.7	7510404.249	4159.13
C147	1307663.1	7510380.265	4159.09
C148	1307662.5	7510356.087	4159.06
C149	1307662.2	7510344.319	4159.04
C150	1307661.7	7510322.579	4159.02
C151	1307660	7510242.542	4158.91
C152	1307659.8	7510214.674	4158.87
C153	1307659.9	7510125.01	4158.75
C154	1307659.9	7510222.915	4158.75
C155	1307659.6	7510014.328	4158.61
C156	1307657.9	7509979.237	4158.6
C157	1307656.2	7509942.309	4158.5
C158	1307657.2	7509885.08	4158.42
C159	1307658.4	7509834.523	4158.36
C160	1307658.5	7509826.304	4158.34

HBW CENTERLINE CONTROL POINT TABLE			
ID	EASTING	NORTHING	BOTTOM ELEVATION OF HBW (FT)(NOTE 1)
C161	1307658.3	7509818.182	4158.33
C162	1307657	7509749.377	4158.24
C163	1307657.1	7509646.619	4158.1
C164	1307657.1	7509636.457	4158.09
C165	1307655.6	7509592.616	4158.03
C166	1307654.2	7509557.275	4157.98
C167	1307653.6	7509541.184	4157.96
C168	1307653.6	7509538.384	4157.95
C169	1307653.7	7509524.35	4157.94
C170	1307654.1	7509516.615	4157.93
C171	1307654.9	7509482.372	4157.88
C172	1307655.4	7509443.415	4157.83
C173	1307655.3	7509438.609	4157.82
C174	1307655	7509431.966	4157.81
C175	1307654.6	7509423.211	4157.8
C176	1307654.4	7509419.144	4157.79
C177	1307654.2	7509416.103	4157.79
C178	1307653.2	7509399.631	4157.77
C179	1307651.8	7509375.353	4157.73
C180	1307650.9	7509359.654	4157.71
C181	1307649.7	7509339.417	4157.74
C182	1307647.5	7509298.439	4157.81
C183	1307646.8	7509284.099	4157.83
C184	1307646.7	7509277.926	4157.84
C185	1307648.1	7509197.901	4157.98
C186	1307649.1	7509161.812	4158.04
C187	1307651.1	7509118.242	4158.11
C188	1307651.5	7509105.139	4158.13
C189	1307651.2	7509090.226	4158.16
C190	1307649.7	7509064.627	4158.2
C191	1307644.8	7508994.071	4158.32
C192	1307639.5	7508911.092	4158.46
C193	1307639.4	7508899.746	4158.5
C194	1307639.6	7508817.75	4158.62
C195	1307639.7	7508740.52	4158.75
C196	1307639.7	7508733.736	4158.76
C197	1307639.7	7508729.452	4158.77
C198	1307639	7508705.112	4158.81
C199	1307638.6	7508693.98	4158.83
C200	1307636.3	7508627.491	4158.94
C201	1307634.6	7508566.413	4159.04
C202	1307634.3	7508552.675	4159.06
C203	1307634.2	7508533.97	4159.1
C204	1307634.4	7508496.986	4159.16
C205	1307634.8	7508472.037	4159.2
C206	1307635.4	7508436.384	4159.26
C207	1307636.8	7508382.329	4159.35
C208	1307638.1	7508351.373	4159.4
C209	1307639.3	7508330.504	4159.44
C210	1307640	7508320.422	4159.45
C211	1307640.9	7508310.08	4159.47
C212	1307641.2	7508306.59	4159.48
C213	1307641.8	7508300.371	4159.49
C214	1307642.1	7508296.427	4159.49
C215	1307642.7	7508290.099	4159.51
C216	1307643.1	7508286.803	4159.51
C217	1307645.1	7508271.966	4159.54
C218	1307647.1	7508259.669	4159.56