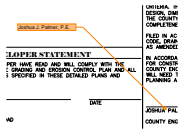


V2_Grading & Erosion Control Plan_COMMENTS.pdf Markup Summary

EPC Stormwater- Zachary (28)



Subject: SW - Textbox with Arrow
Page Label: [1] 1 Cover Sheet
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:32:35 PM
Status:
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Layer:
Space:

Joshua J. Palmer, P.E.

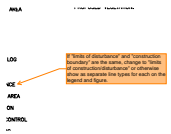


Subject: SW - Textbox
Page Label: [1] 1 Cover Sheet
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:36:30 PM
Status:
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Space:

Revise to current standard notes for grading and erosion control

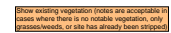


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Subject: SW - Textbox with Arrow
Page Label: [4] 4 GEC Initial-Interim
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:41:34 PM
Status:
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Space:

If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure.



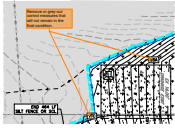
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Page Label: [4] 4 GEC Initial-Interim
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:42:10 PM
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Show existing vegetation (notes are acceptable in cases where there is no notable vegetation, only grasses/weeds, or site has already been stripped)



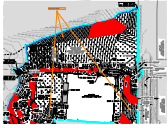
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Page Label: [4] 4 GEC Initial-Interim
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:15:43 PM
Status:
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Layer:
Space:

Please provide control measures to prevent sediment from discharging off-site during construction



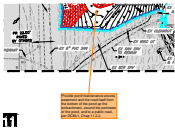
Subject: SW - Textbox with Arrow
Page Label: [5] 5 GEC Final
Author: EPC Stormwater- Zachary
Date: 5/14/2026 2:03:43 PM
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Space:

Remove or grey-out control measures that will not remain in the final condition.



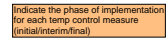
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Page Label: [5] 5 GEC Final
Author: EPC Stormwater- Zachary
Date: 5/14/2026 2:47:07 PM
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Add slope labels



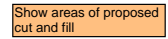
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Page Label: [5] 5 GEC Final
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:01:43 PM
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Color: ■
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Space:

Provide pond maintenance access easement and the road itself from the bottom of the pond up the embankment, around the perimeter of the pond, and to a public road, per DCMv1, Chap 11.2.2.



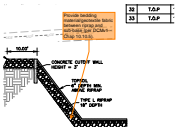
Subject: SW - Textbox
Page Label: [5] 5 GEC Final
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:08:58 PM
Status:
Color: ■
Layer:
Space:

Indicate the phase of implementation for each temp control measure (initial/interim/final)



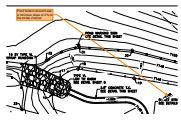
Subject: SW - Textbox
Page Label: [5] 5 GEC Final
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:09:38 PM
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Space:

Show areas of proposed cut and fill



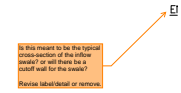
Subject: SW - Textbox with Arrow
Page Label: [7] 7 Pond Grading
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:41:21 PM
Status:
Color: ■
Layer:
Space:

Provide bedding material/geotextile fabric between riprap and sub-base (per DCMv1 – Chap 10.10.5).



Subject: SW - Textbox with Arrow
Page Label: [7] 7 Pond Grading
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:54:09 PM
Status:
Color: ■
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Space:

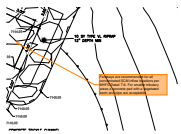
Pond bottom should have a minimum slope of 2% to the trickle channel



Subject: SW - Textbox with Arrow
Page Label: [8] 8 Low Tailwater Basin Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:24:30 PM
Status:
Color: ■
Layer:
Space:

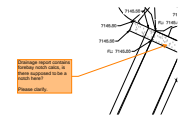
Is this meant to be the typical cross-section of the inflow swale? or will there be a cutoff wall for the swale?

Revise label/detail or remove.



Subject: SW - Textbox with Arrow
Page Label: [8] 8 Low Tailwater Basin Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 4:02:16 PM
Status:
Color: ■
Layer:
Space:

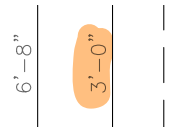
Forebays are recommended for all concentrated SCM inflow locations per MHFD Detail T-6. For smaller tributary areas a concrete pad with a vegetated berm and pipe are acceptable.



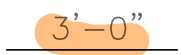
Subject: SW - Textbox with Arrow
Page Label: [8] 8 Low Tailwater Basin Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 4:19:08 PM
Status:
Color: ■
Layer:
Space:

Drainage report contains forebay notch calcs, is there supposed to be a notch here?

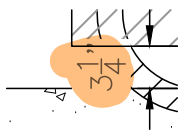
Please clarify.



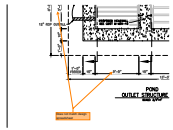
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 12:36:21 PM
Status:
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Layer:
Space:



Subject: SW - Highlight
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Author: EPC Stormwater- Zachary
Date: 5/14/2026 12:36:55 PM
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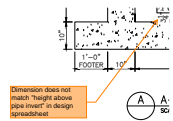


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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 12:38:40 PM
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Layer:
Space:



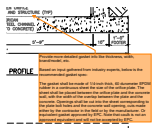
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 12:39:15 PM
Status:
Color: ■
Layer:
Space:

Does not match design spreadsheet



Subject: SW - Textbox with Arrow
Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 12:39:59 PM
Status:
Color: ■
Layer:
Space:

Dimension does not match "height above pipe invert" in design spreadsheet

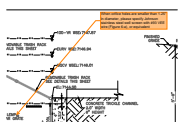


Subject: SW - Textbox with Arrow
Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:32:25 PM
Status:
Color: ■
Layer:
Space:

Provide more detailed gasket info like thickness, width, brand/model, etc.

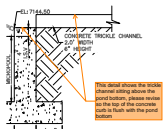
Based on input gathered from industry experts, below is the recommended gasket spec:

The gasket shall be made of 1/4-inch thick, 60 durometer EPDM rubber in a continuous sheet the size of the orifice plate. The sheet shall be placed between the orifice plate and the concrete wall, with the width of the overlap between the plate and the concrete. Openings shall be cut into the sheet corresponding to the plate bolt holes and the concrete wall opening, cuts made either by the contractor in the field or by the manufacturer. Or equivalent gasket approved by EPC. Note that caulk is not an approved equivalent and will not be accepted by EPC.



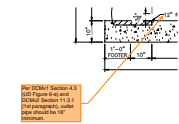
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:33:30 PM
Status:
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Layer:
Space:

When orifice holes are smaller than 1.25" in diameter, please specify Johnson stainless steel well screen with #93 VEE wire (Figure 6-a), or equivalent



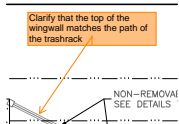
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:35:16 PM
Status:
Color: ■
Layer:
Space:

This detail shows the trickle channel sitting above the pond bottom, please revise so the top of the concrete curb is flush with the pond bottom



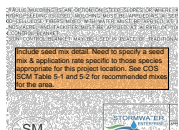
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 3:44:52 PM
Status:
Color: ■
Layer:
Space:

Per DCMv1 Section 4.3 (UD Figure 6-a) and DCMv2 Section 11.3.1 (1st paragraph), outlet pipe should be 18" minimum.



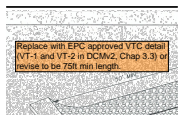
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Page Label: [9] 9 Outlet Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 4:28:37 PM
Status:
Color: ■
Layer:
Space:

Clarify that the top of the wingwall matches the path of the trashrack



Subject: SW - Textbox
Page Label: [11] 11 Details
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:49:41 PM
Status:
Color: ■
Layer:
Space:

Include seed mix detail. Need to specify a seed mix & application rate specific to those species appropriate for this project location. See COS SCM Table 5-1 and 5-2 for recommended mixes for the area.



Subject: SW - Textbox
Page Label: [12] 12 Details (2)
Author: EPC Stormwater- Zachary
Date: 5/14/2026 1:48:51 PM
Status:
Color: ■
Layer:
Space:

Replace with EPC approved VTC detail (VT-1 and VT-2 in DCMv2, Chap 3.3) or revise to be 75ft min length.

eschoenheit (16)


PCD File PPR265

Subject: Text Box
Page Label: [1] 1 Cover Sheet
Author: eschoenheit
Date: 5/14/2026 1:09:39 PM
Status:
Color: ■
Layer:
Space:

PCD File PPR265


COMPACTED
LEGRAGE
BE INTO EXISTING GRADE
@ 3:1 MAX
DPSOL LINED W/ SEEDING PER TABLE 9-1
CONSERVATION DISTRICT ALL-PURPOSE MIX
@ 3:1 SLOPE PROPOSED CONTROL BLANKET

ENGINEER'S STATEMENT
I HAVE REVIEWED THESE AND ASSOCIATED WORK, INCLUDING
THESE DRAWINGS, AND I AM NOT PROVIDING ANY
WARRANTY, EXPRESSED OR IMPLIED, FOR THE
USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED
HEREIN.


Subject: Highlight
Page Label: [3] 3 Typical Sections
Author: eschoenheit
Date: 5/14/2026 2:45:51 PM
Status:
Color: 
Layer:
Space:

BASIN 8 SWALE
SCALE: NTS


See comments below.

Subject: Text Box
Page Label: [3] 3 Typical Sections
Author: eschoenheit
Date: 5/14/2026 2:46:08 PM
Status:
Color: 
Layer:
Space:

Address pond berm construction and soil requirements, compaction. As there is not a GEOTECH report the design engineer must provide requirements and specification.


Subject: Text Box
Page Label: [3] 3 Typical Sections
Author: eschoenheit
Date: 5/14/2026 4:19:59 PM
Status:
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Layer:
Space:

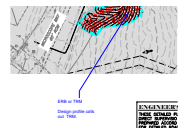



Subject: Cloud+
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 7:51:24 AM
Status:
Color: 
Layer:
Space:

15ft min

10'
ACCESS

Subject: Highlight
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 1:10:33 PM
Status:
Color: 
Layer:
Space:



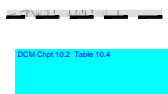
Subject: Callout
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 2:27:06 PM
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Color: 
Layer:
Space:

ERB or TRM

Design profile calls out TRM.

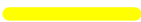


Subject: Image
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 2:34:25 PM
Status:
Color: ■
Layer:
Space:



DCM Chpt 10.2 Table 10.4

Subject: Text Box
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 2:34:23 PM
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Color: ■
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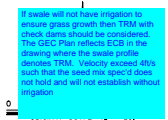
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Layer:
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Subject: Highlight
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Author: eschoenheit
Date: 5/14/2026 2:34:39 PM
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Space:

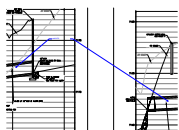


Subject: Highlight
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 2:37:14 PM
Status:
Color: ■
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Space:



Subject: Text Box
Page Label: [5] 5 GEC Final
Author: eschoenheit
Date: 5/14/2026 2:48:21 PM
Status:
Color: ■
Layer:
Space:

If swale will not have irrigation to ensure grass growth then TRM with check dams should be considered. The GEC Plan reflects ECB in the drawing where the swale profile denotes TRM. Velocity exceed 4ft/s such that the seed mix spec'd does not hold and will not establish without irrigation



Subject: Callout
Page Label: [6] 6 Storm PNP
Author: eschoenheit
Date: 5/14/2026 1:43:13 PM
Status:
Color: ■
Layer:
Space:

add HGL

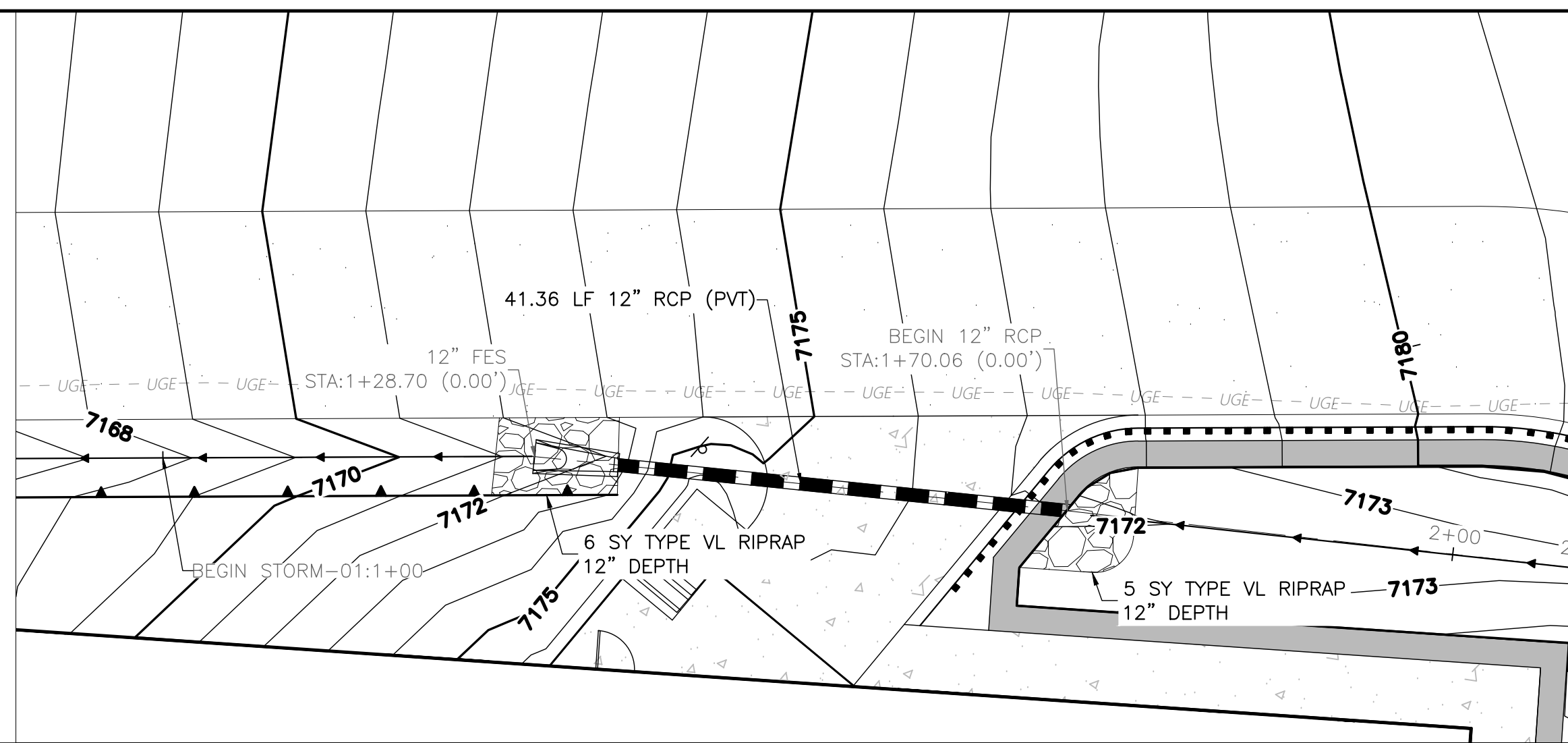
10' MAIN
CESS ROAD

Subject: Highlight
Page Label: [7] 7 Pond Grading
Author: eschoenheit
Date: 5/14/2026 1:11:31 PM
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Color: ■
Layer:
Space:

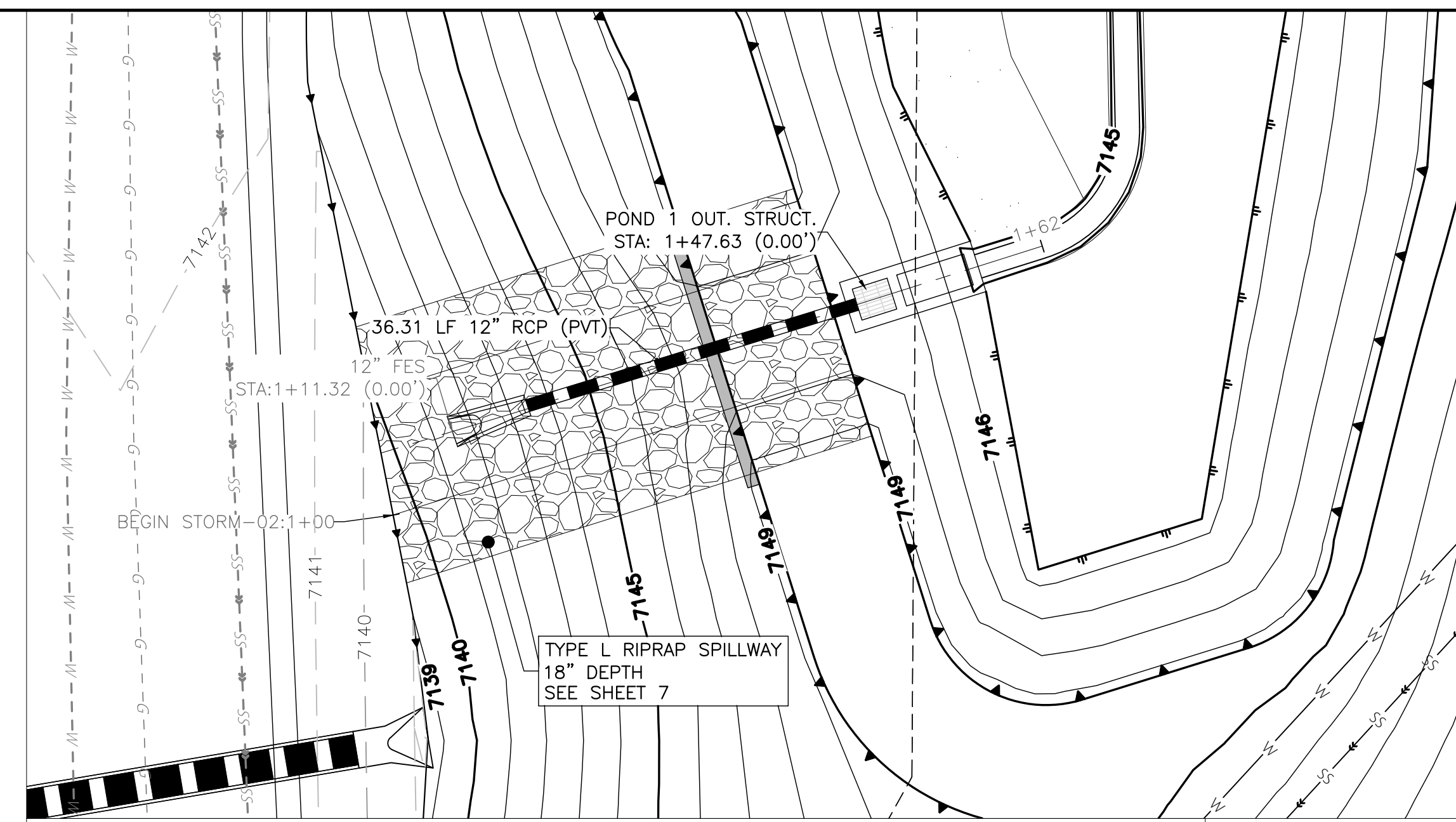
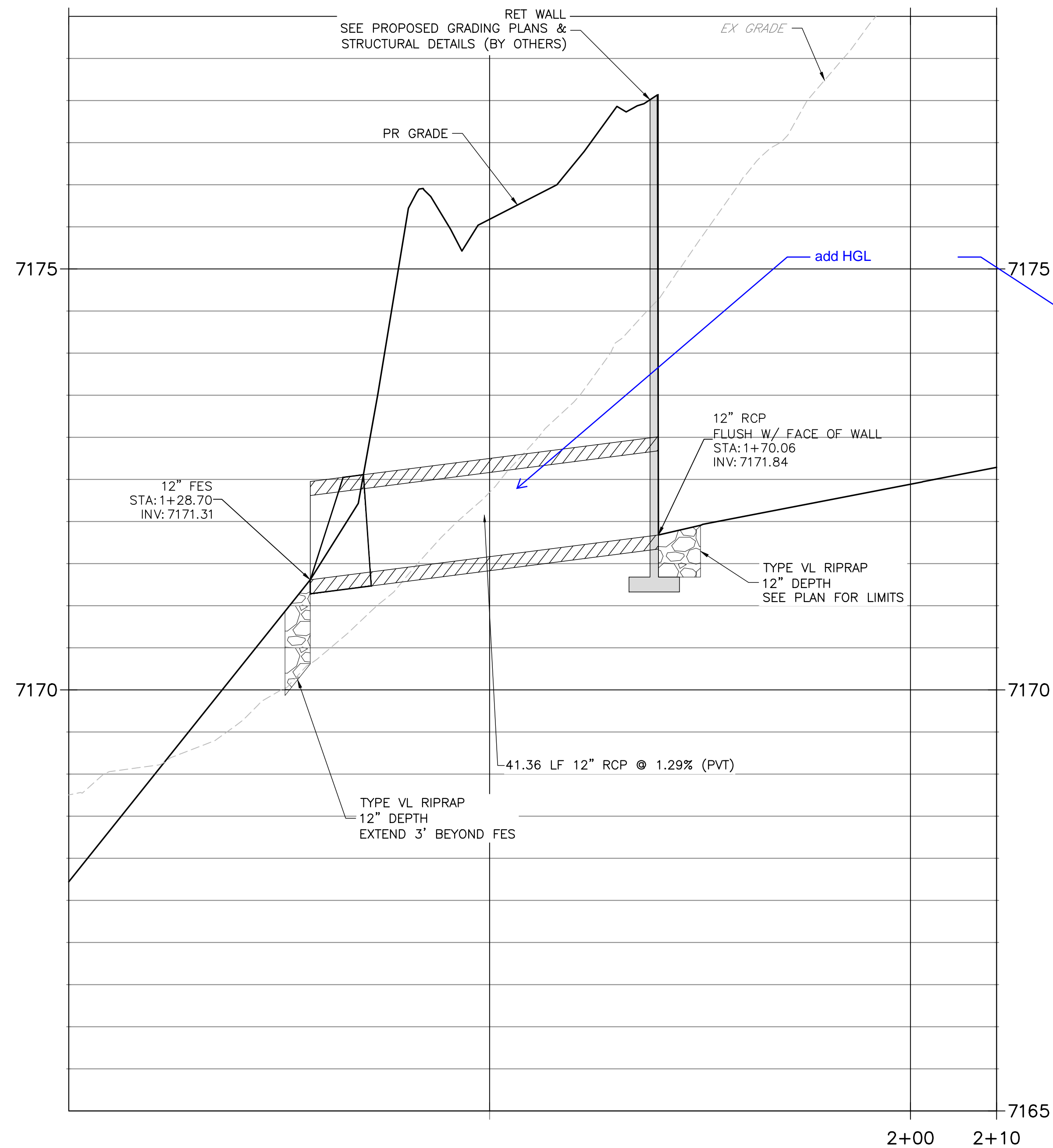


Subject: Text Box
Page Label: [7] 7 Pond Grading
Author: eschoenheit
Date: 5/14/2026 1:12:11 PM
Status:
Color: ■
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Space:

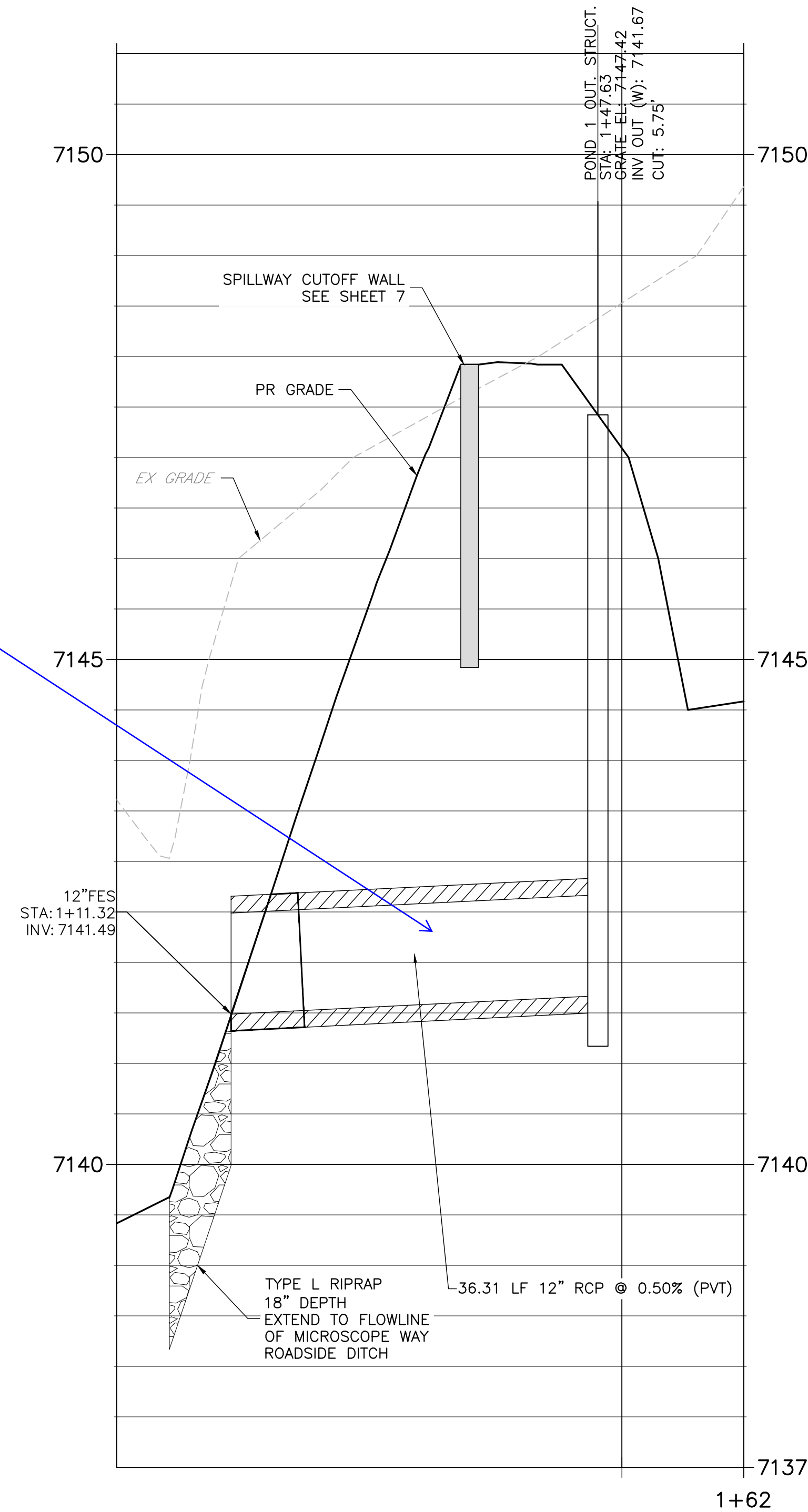
Road width min is 15ft DCM 6.5.3



STORM-01
STA 1+00.00 TO 2+10.23



STORM-02
STA 1+00.00 TO 1+62.07



Know what's below.
Call before you dig.



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

NICHOLAS Q. JOKERST, P.E. COLORADO P.E. 59273 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE

REV	DESCRIPTION	DATE

JOB NO: 25023 LOCATION: EPC

ASCENT CHURCH

STORM PNP

DESIGN: NQJ
REVIEW: REB
DATE: 04/17/2026

H-SCALE: 1" = X'

V-SCALE: 1" = X'

SHEET

6 OF 13

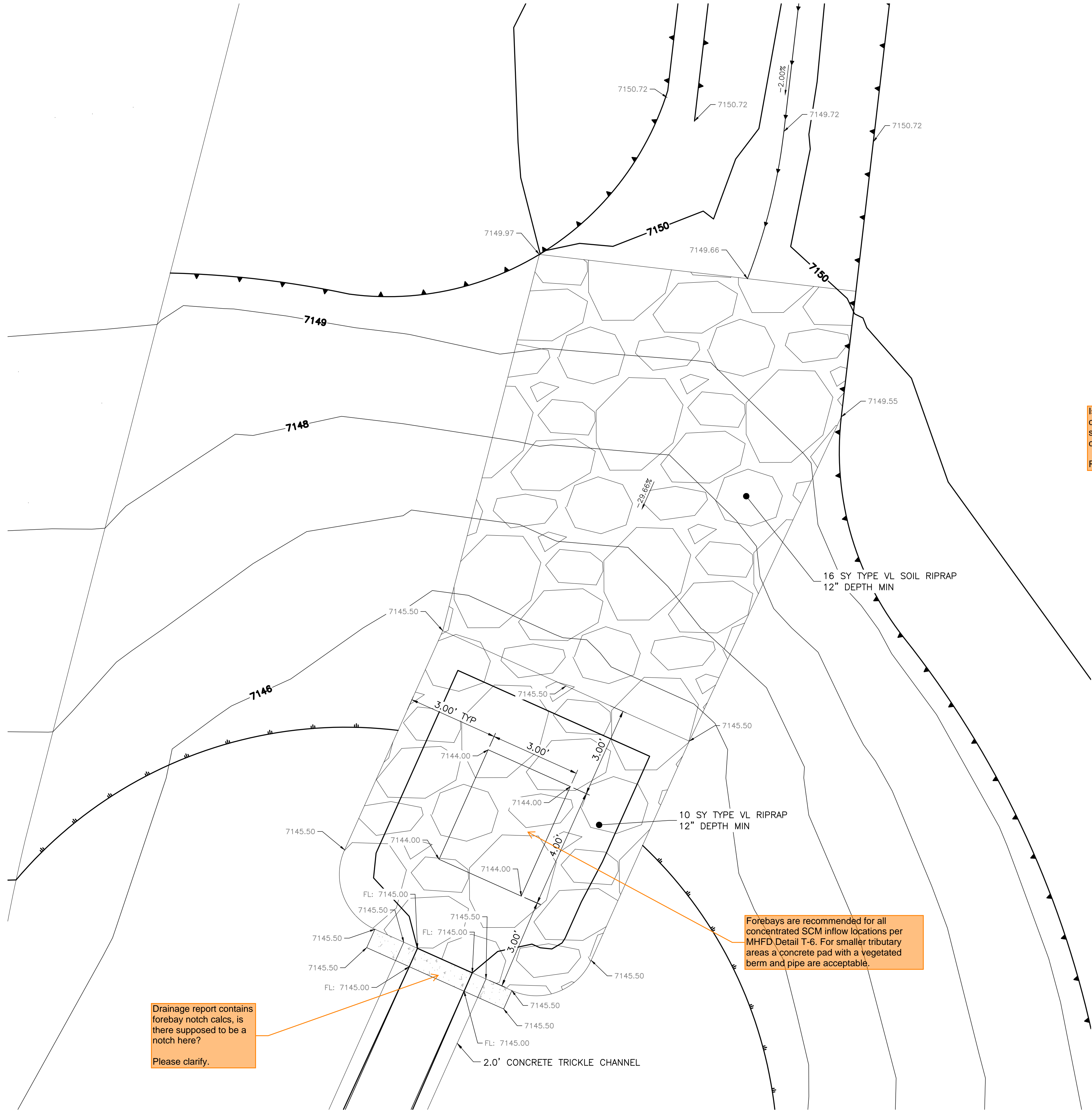
PREPARED FOR:

ASCENT CHURCH
1750 DEER CREEK ROAD
MONUMENT, CO 80132
ATTN: JASON SCHOTT
(720) 724-3435
JSCHOTT@THEASCENTCHURCH.COM

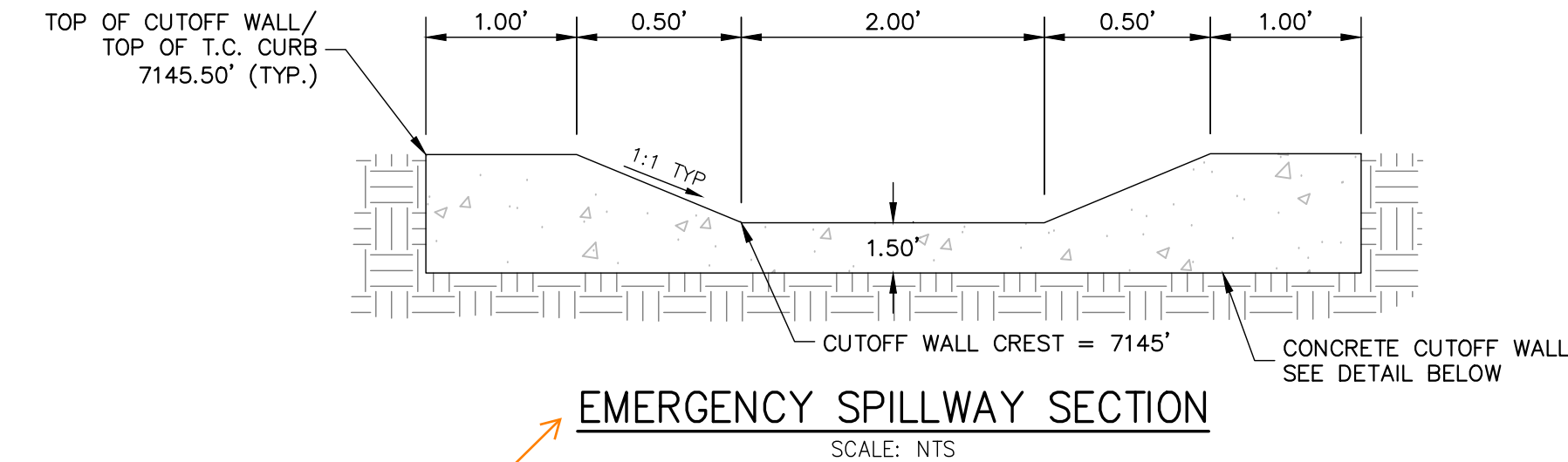
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.



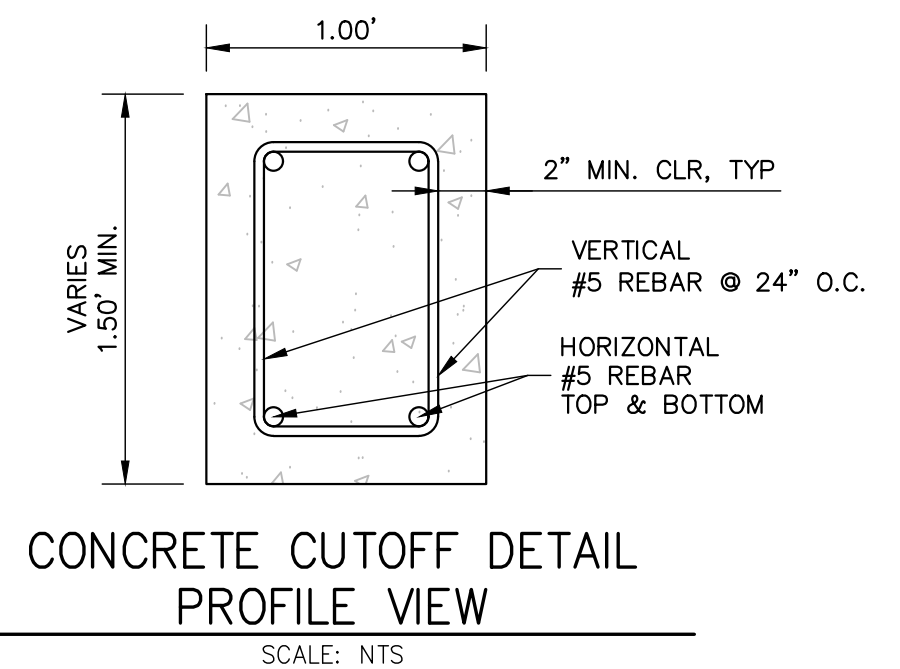
NICHOLAS Q. JOKERST, P.E. 59273 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC



- NOTES:**
1. SEE SHEET 1 FOR ABBREVIATIONS AND STANDARD GEC NOTES.
 2. SEE SHEET 2 FOR LINE TYPE LEGEND AND STANDARD CONSTRUCTION NOTES.
 3. SEE SHEET 3 FOR TYPICAL SECTIONS OF ROADWAYS AND SWALES.
 4. CONTRACTOR TO FAMILIARIZE SELF WITH SITE, PLANS, EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY QUESTIONS, DISCREPANCIES, CONFLICTS, OR REQUIRED CHANGES PRIOR TO COMMENCING CONSTRUCTION.
 5. PLEASE NOTE, EXISTING UTILITY LOCATIONS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION AND MAY DIFFER THAN WHAT IS SHOWN IN THESE PLANS.
 6. FOR PROPOSED IMPROVEMENTS BY OTHERS REFER TO DEER CREEK ROADWAY IMPROVEMENTS BY AECOM, EPC #17-067-90.



Is this meant to be the typical cross-section of the inflow swale? or will there be a cutoff wall for the swale?
Revise label/detail or remove.

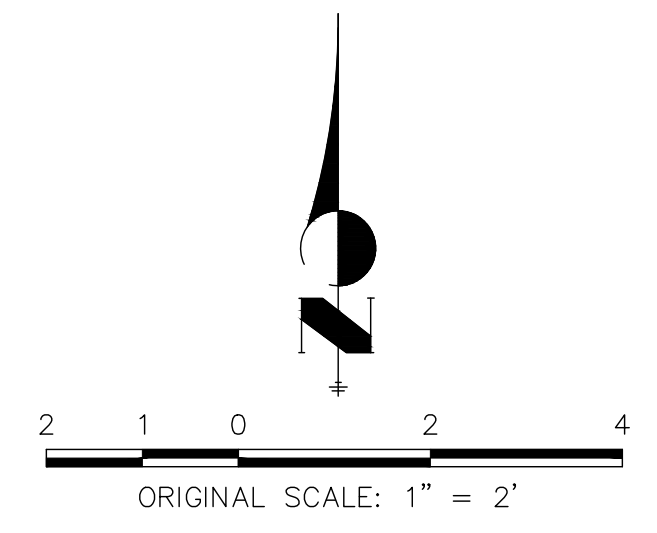


NOTE: REBAR SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FURNISH STRUCTURAL DESIGN & PROVIDE SHOP DRAWINGS TO ENGINEER.

Drainage report contains forebay notch calcs, is there supposed to be a notch here?
Please clarify.

Forebays are recommended for all concentrated SCM inflow locations per MHFD Detail T-6. For smaller tributary areas a concrete pad with a vegetated berm and pipe are acceptable.

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



ENGINEER'S STATEMENT
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

NICHOLAS Q. JOKERST, P.E. DATE
COLORADO P.E. 59273
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

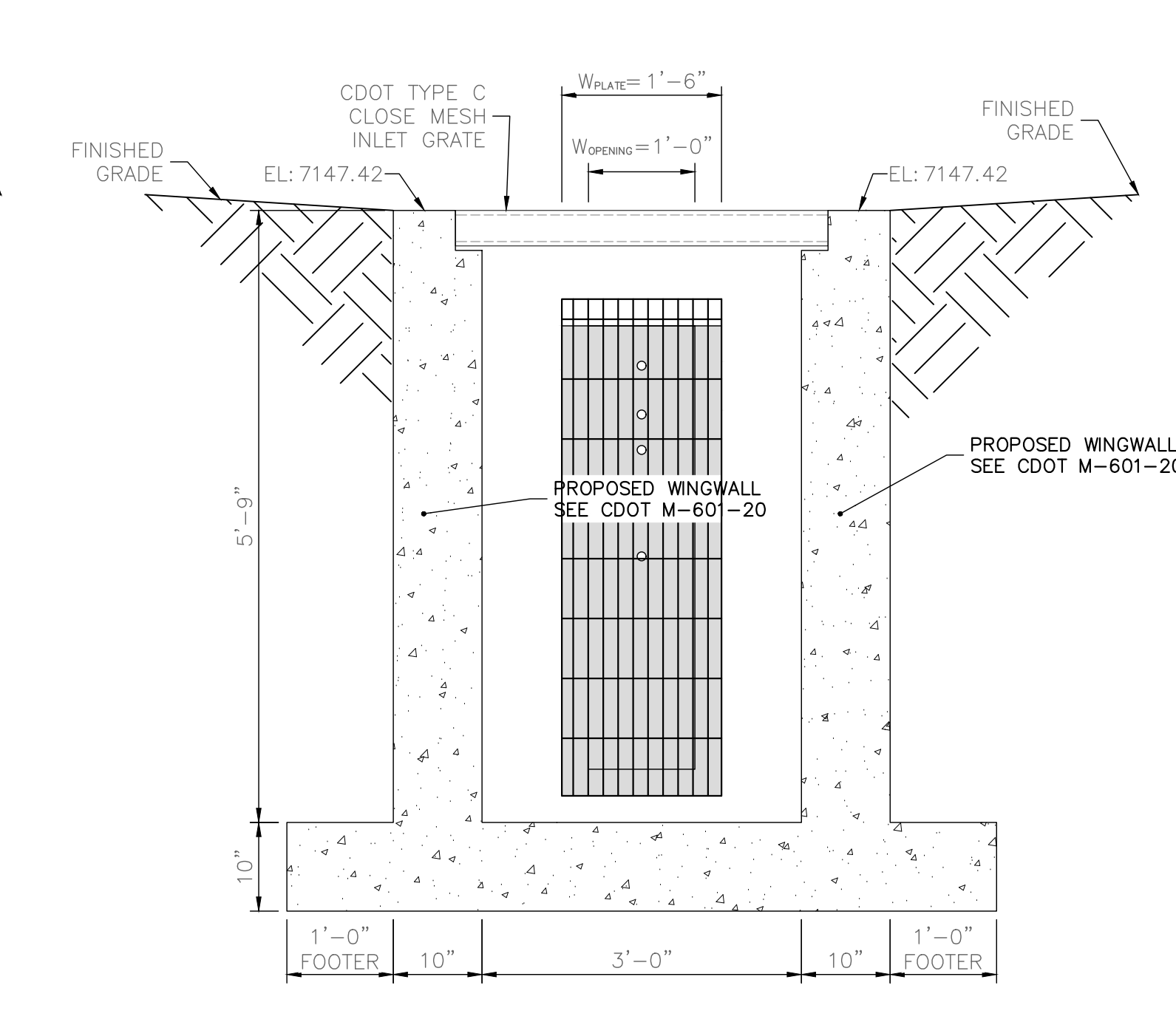
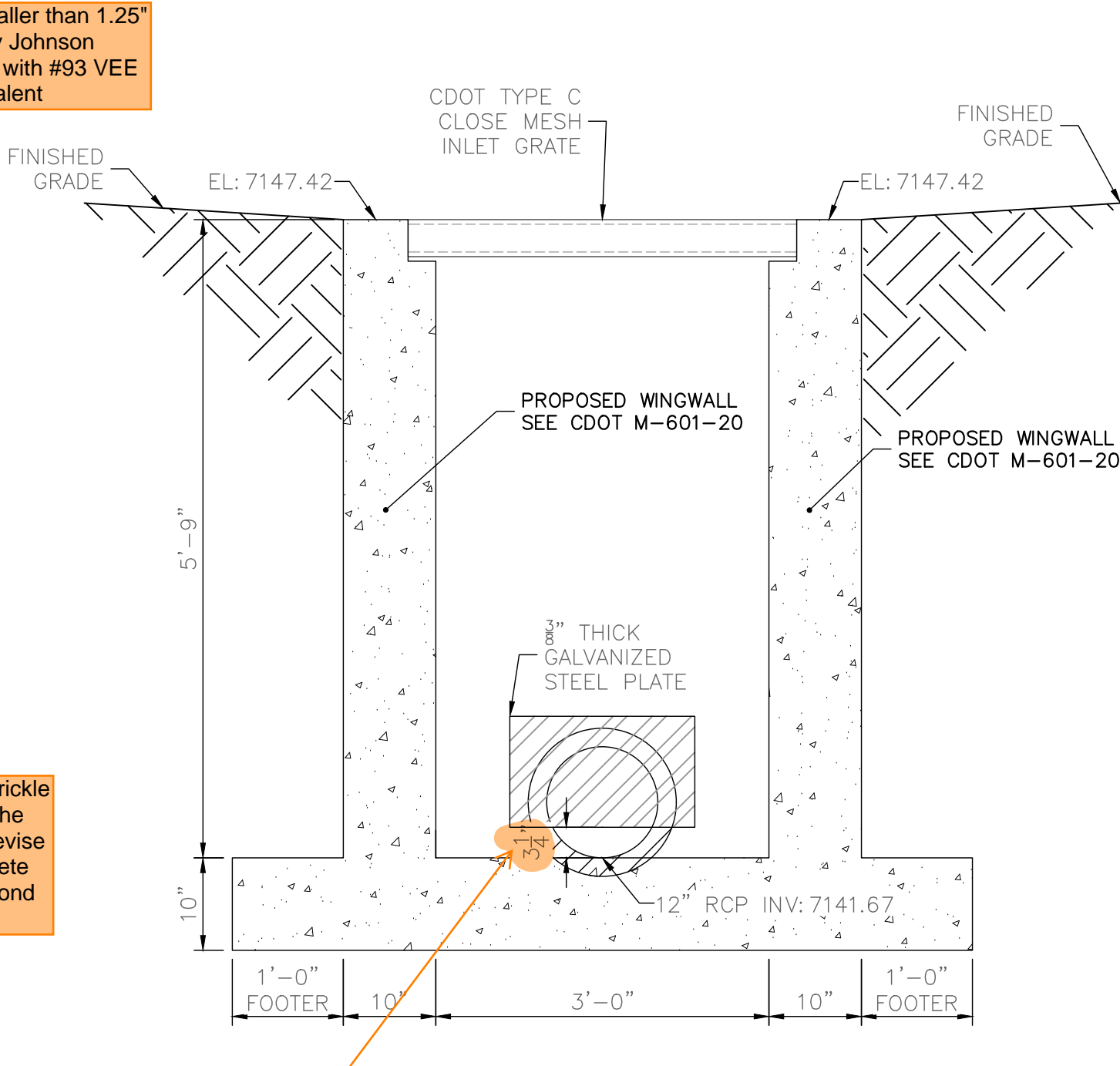
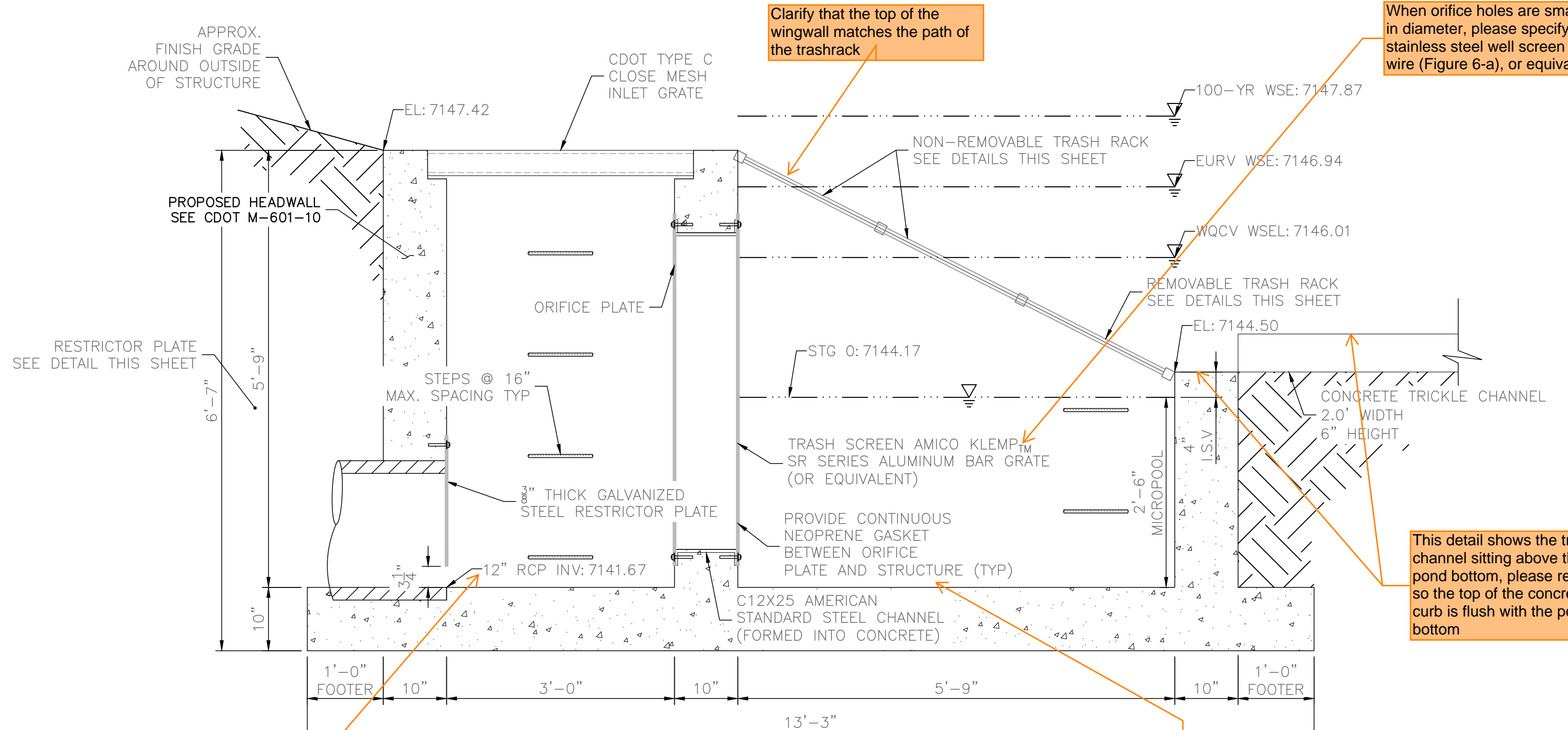
REV	DESCRIPTION	DATE

JOB NO: 25023 LOCATION: EPC
ASSENT CHURCH
LOW TAILWATER BASIN DETAILS

DESIGN: NQJ
REVIEW: REB
DATE: 04/17/2026
H-SCALE: 1" = X'
V-SCALE: 1" = X'
SHEET
8 OF 13

PREPARED FOR:
ASCENT CHURCH
1750 DEER CREEK ROAD
MONUMENT, CO 80132
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(720) 724-3435
JSCHOTT@THEASCENTCHURCH.COM

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POND OUTLET STRUCTURE PROFILE
SCALE: 3/4"=1'

Per DCMv1 Section 4.3 (UD Figure 6-a) and DCMv2 Section 11.3.1 (1st paragraph), outlet pipe should be 18" minimum.

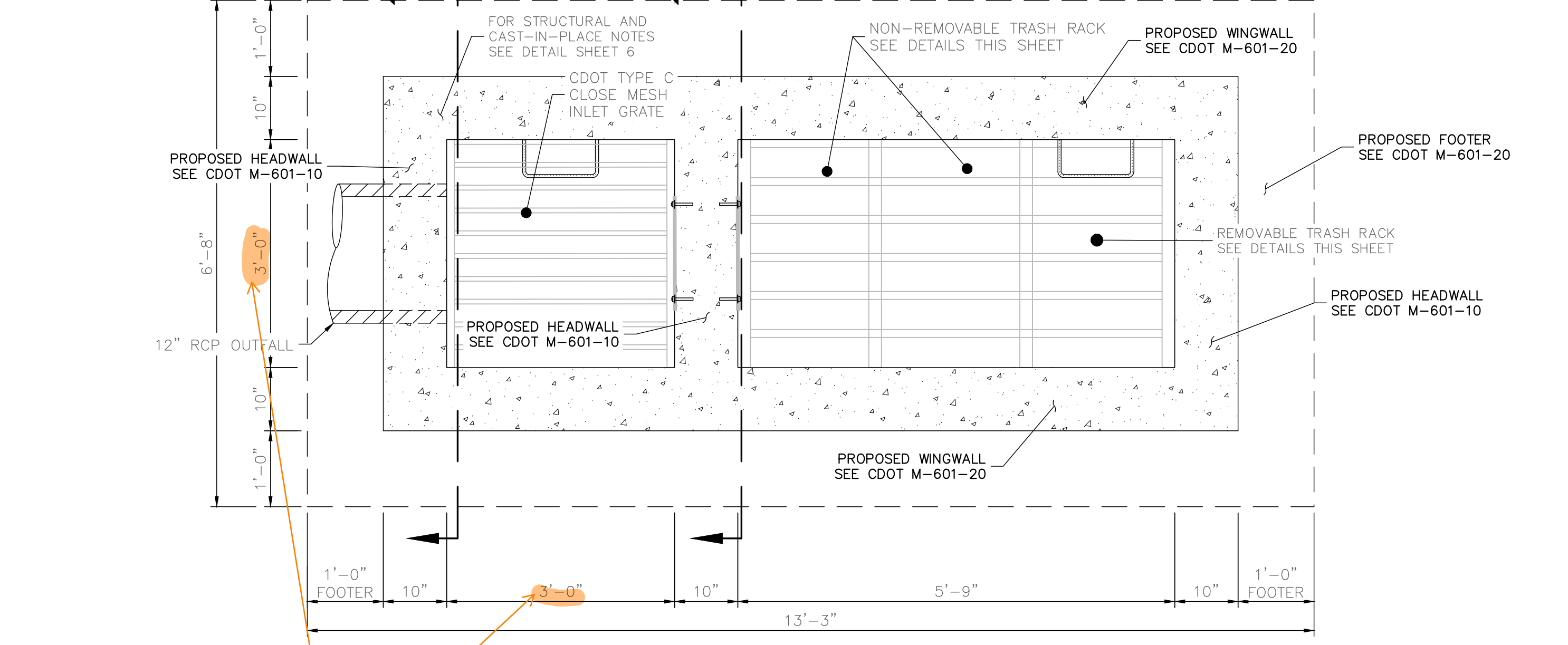
Clarify that the top of the wingwall matches the path of the trashrack

When orifice holes are smaller than 1.25" in diameter, please specify Johnson stainless steel well screen with #93 VEE wire (Figure 6-a), or equivalent

This detail shows the trickle channel sitting above the pond bottom, please revise so the top of the concrete curb is flush with the pond bottom

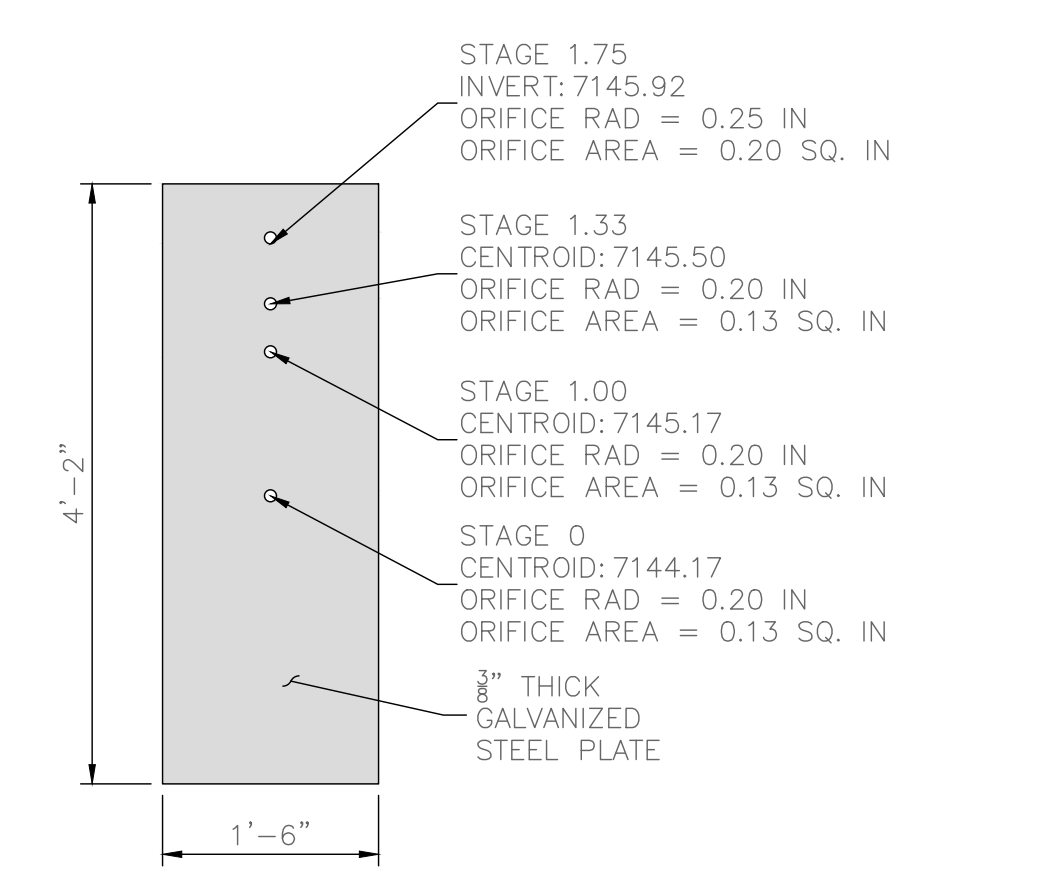
Provide more detailed gasket info like thickness, width, brand/model, etc.
Based on input gathered from industry experts, below is the recommended gasket spec:
The gasket shall be made of 1/4-inch thick, 60 durometer EPDM rubber in a continuous sheet the size of the orifice plate. The sheet shall be placed between the orifice plate and the concrete wall, with the width of the overlap between the plate and the concrete. Openings shall be cut into the sheet corresponding to the plate bolt holes and the concrete wall opening, cuts made either by the contractor in the field or by the manufacturer. Or equivalent gasket approved by EPC. Note that caulk is not an approved equivalent and will not be accepted by EPC.

Dimension does not match "height above pipe invert" in design spreadsheet



POND OUTLET STRUCTURE PLAN
SCALE: 3/4"=1'

Does not match design spreadsheet



ORIFICE PLATE DETAIL
SCALE: 3/4"=1'

- CAST-IN-PLACE STRUCTURAL NOTES:**
1. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.
 2. ALL CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
 3. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
 4. DO NOT BACKFILL UNTIL CONCRETE HAS REACHED DESIGN STRENGTH, F_c.
 5. ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
 6. CONTRACTOR SHALL SUBMIT STEEL REINFORCING SHOP DRAWINGS FOR ALL CAST-IN-PLACE STRUCTURES FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION. REINFORCING SHOWN IS FOR INFORMATION ONLY.
 7. HEADWALLS FOR PIPES SHALL BE CONSTRUCTED PER CDOT M-601-10.
 8. WINGWALLS SHALL BE CONSTRUCTED PER CDOT M-601-20.
 9. SEE GENERAL STRUCTURE NOTES ON SHEET 4.

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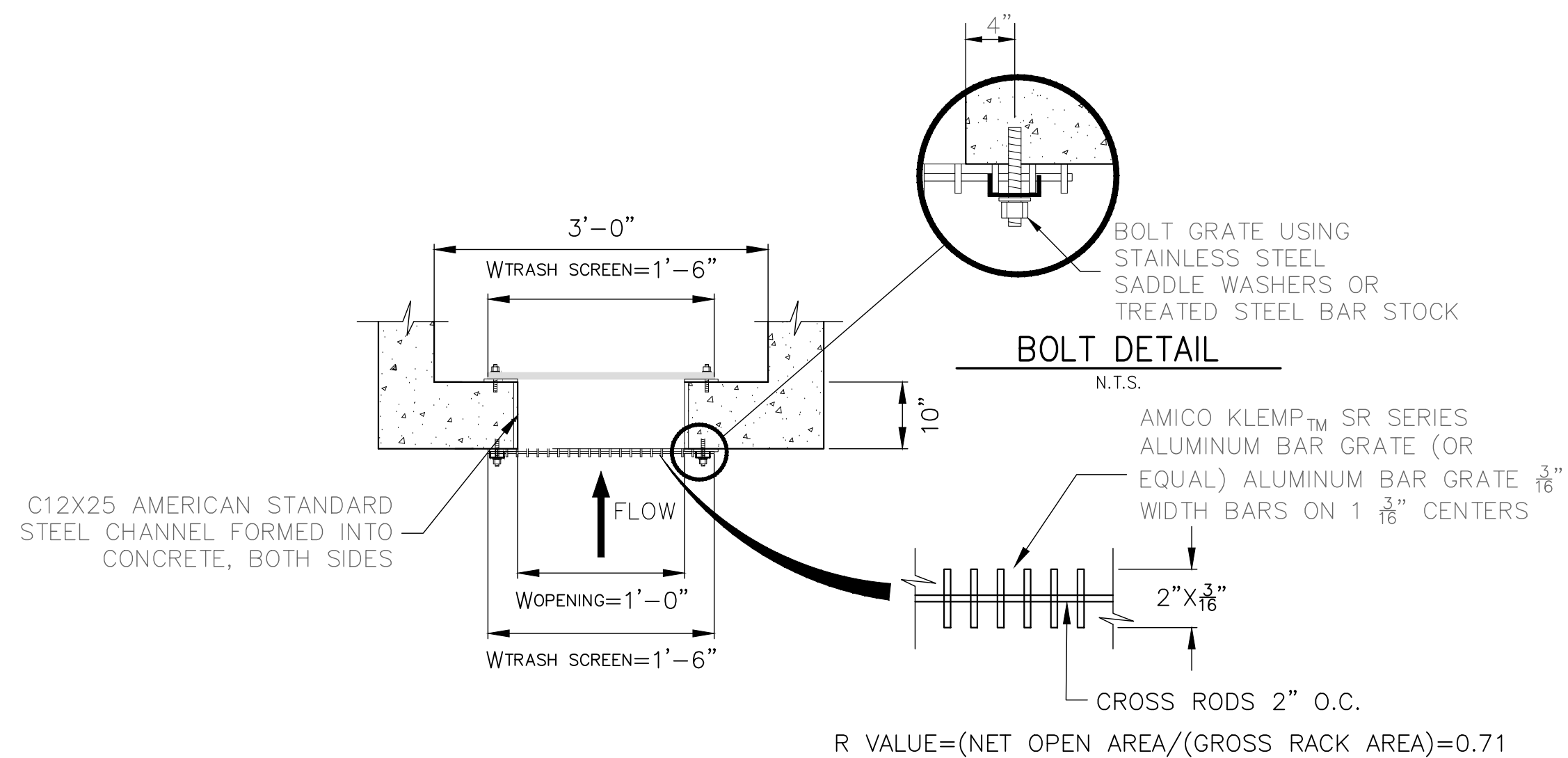
PREPARED FOR:
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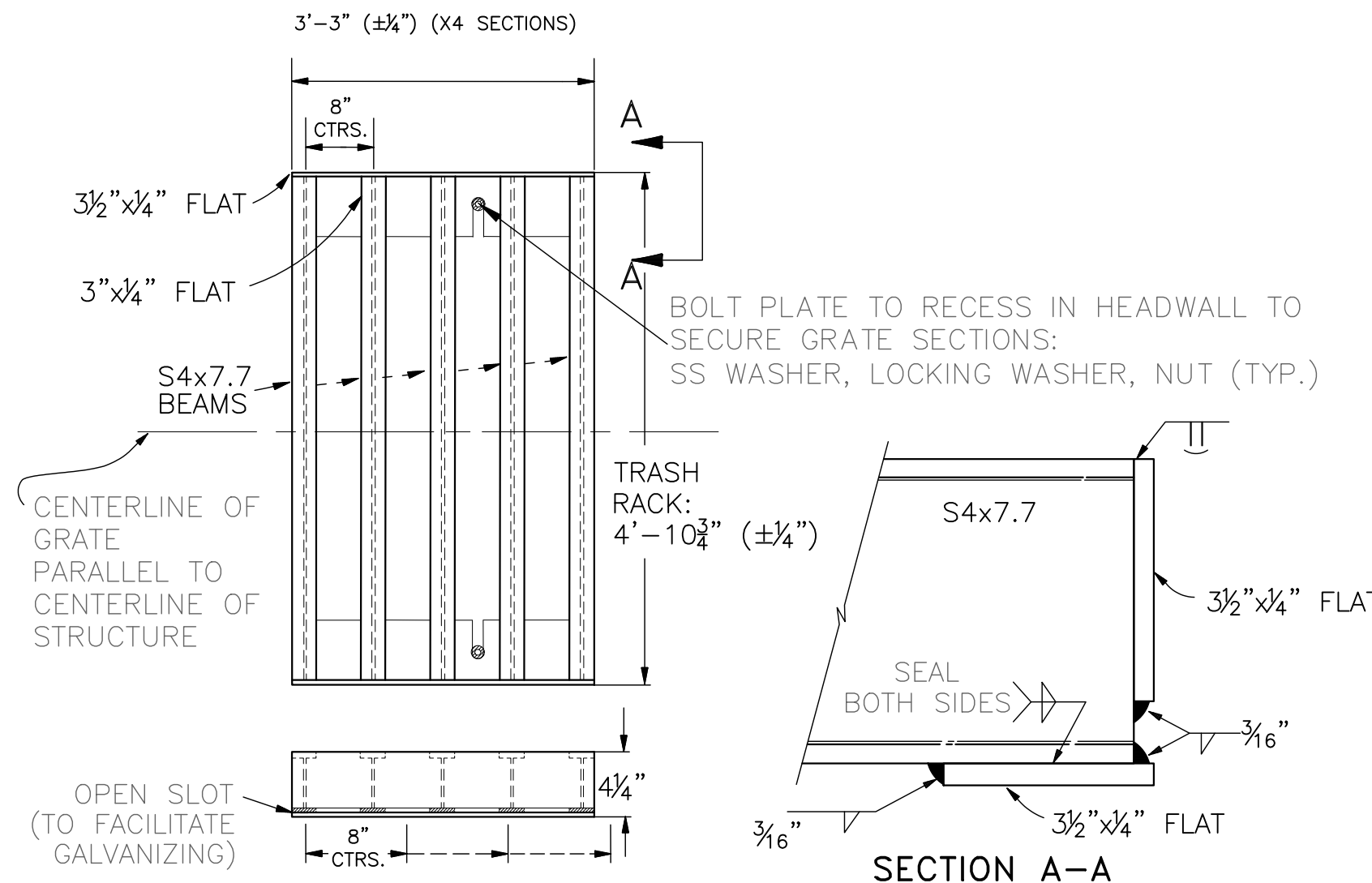
REV	DESCRIPTION	DATE

ASCENT CHURCH
OUTLET DETAILS

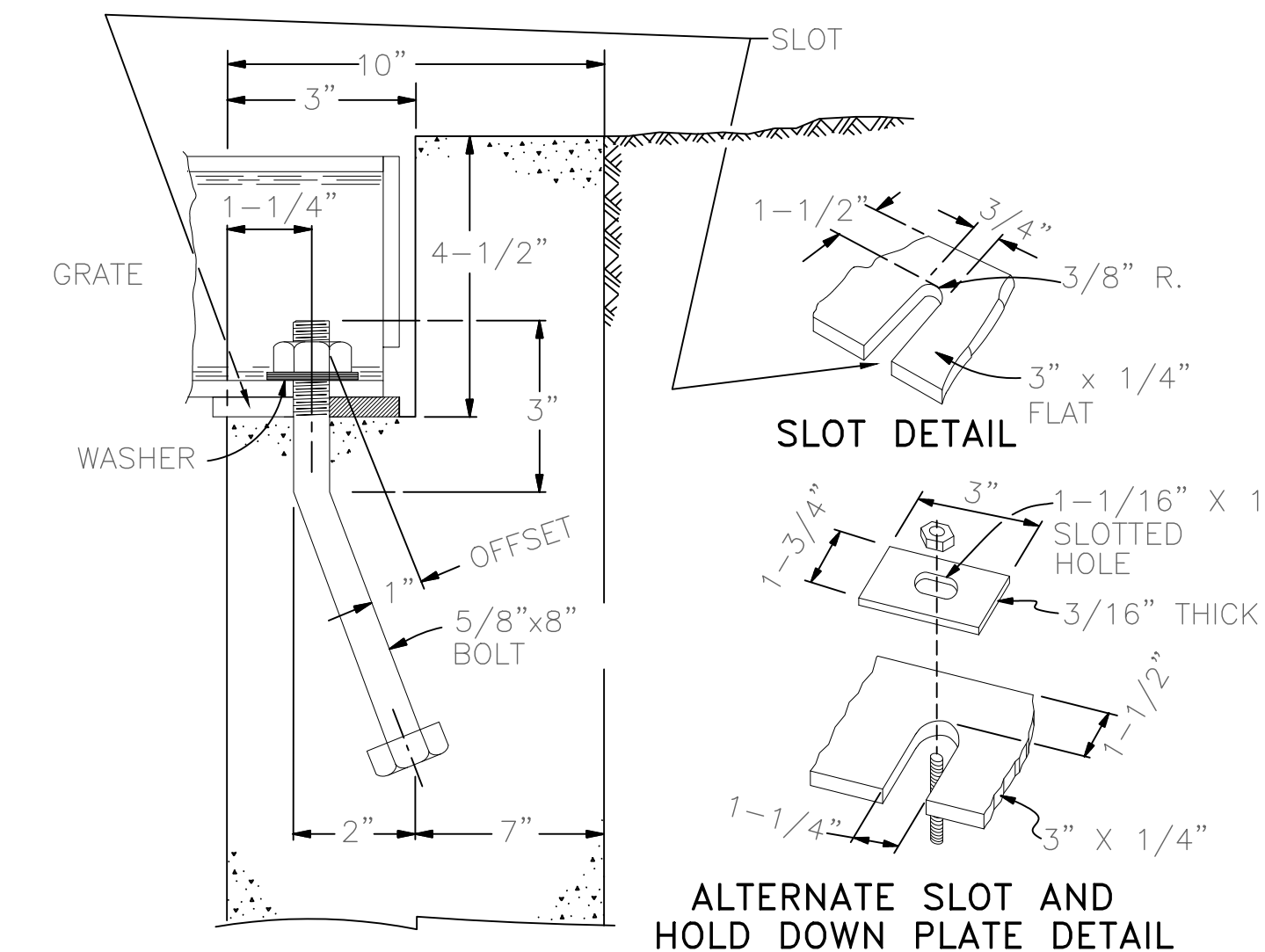
DESIGN: NJQ
REVIEW: REB
DATE: 04/17/2026
H-SCALE: 3/4" = 1'
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SHEET
9 OF 13



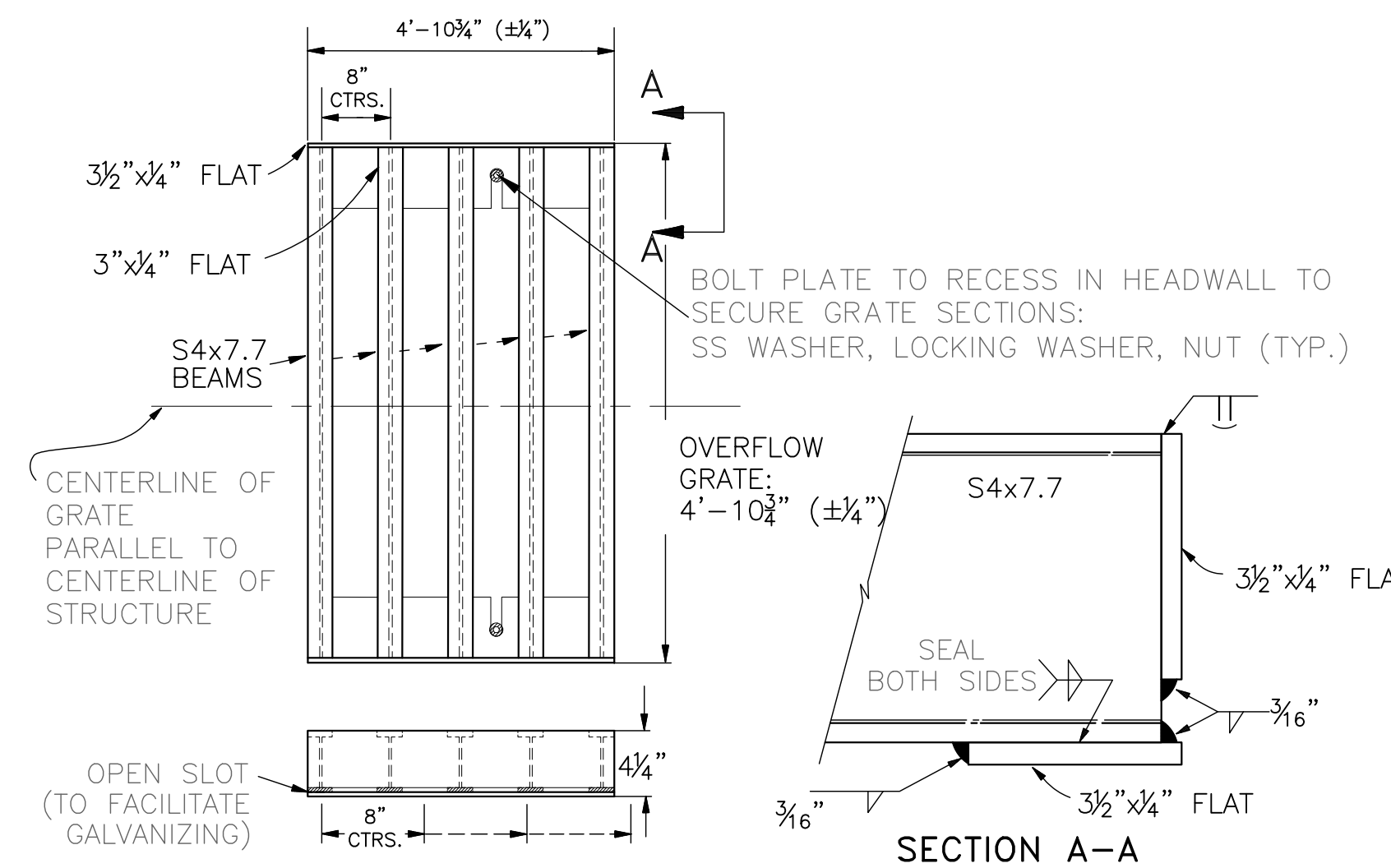
TRASH SCREEN AND PLATE DETAIL (PLAN)
N.T.S.



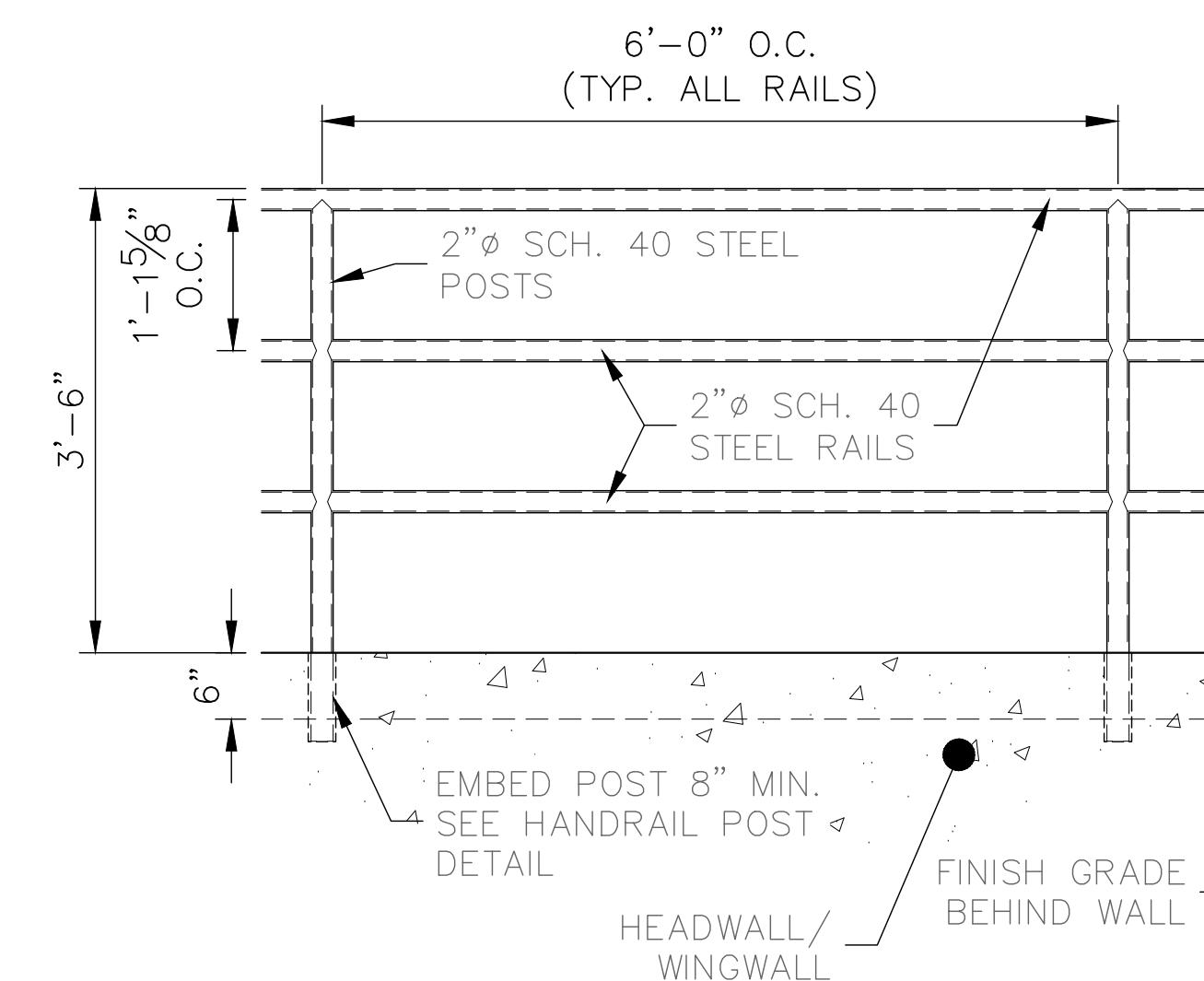
TRASH RACK DETAILS
N.T.S.



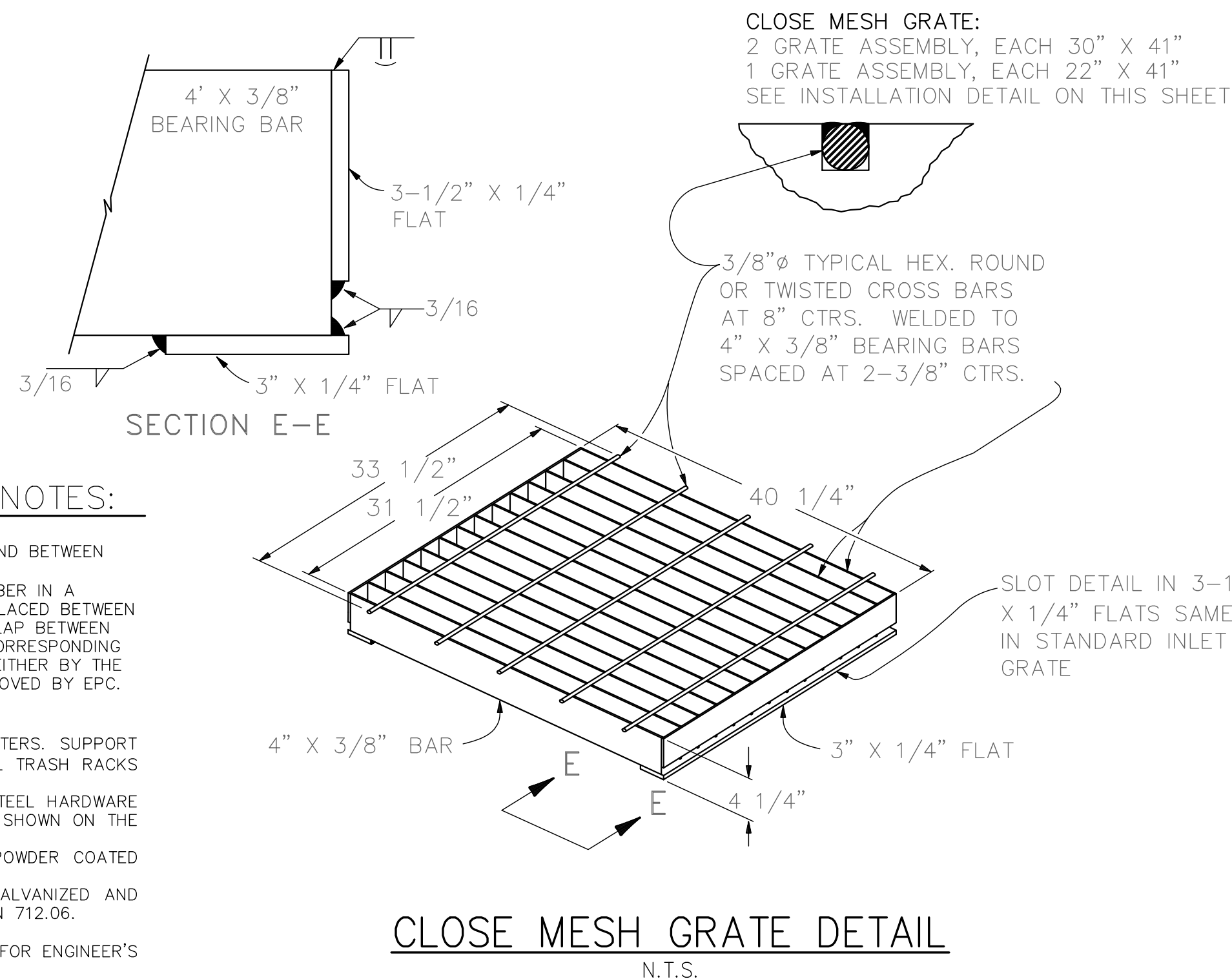
OVERFLOW GRATE/TRASH RACK INSTALLATION DETAIL
N.T.S.



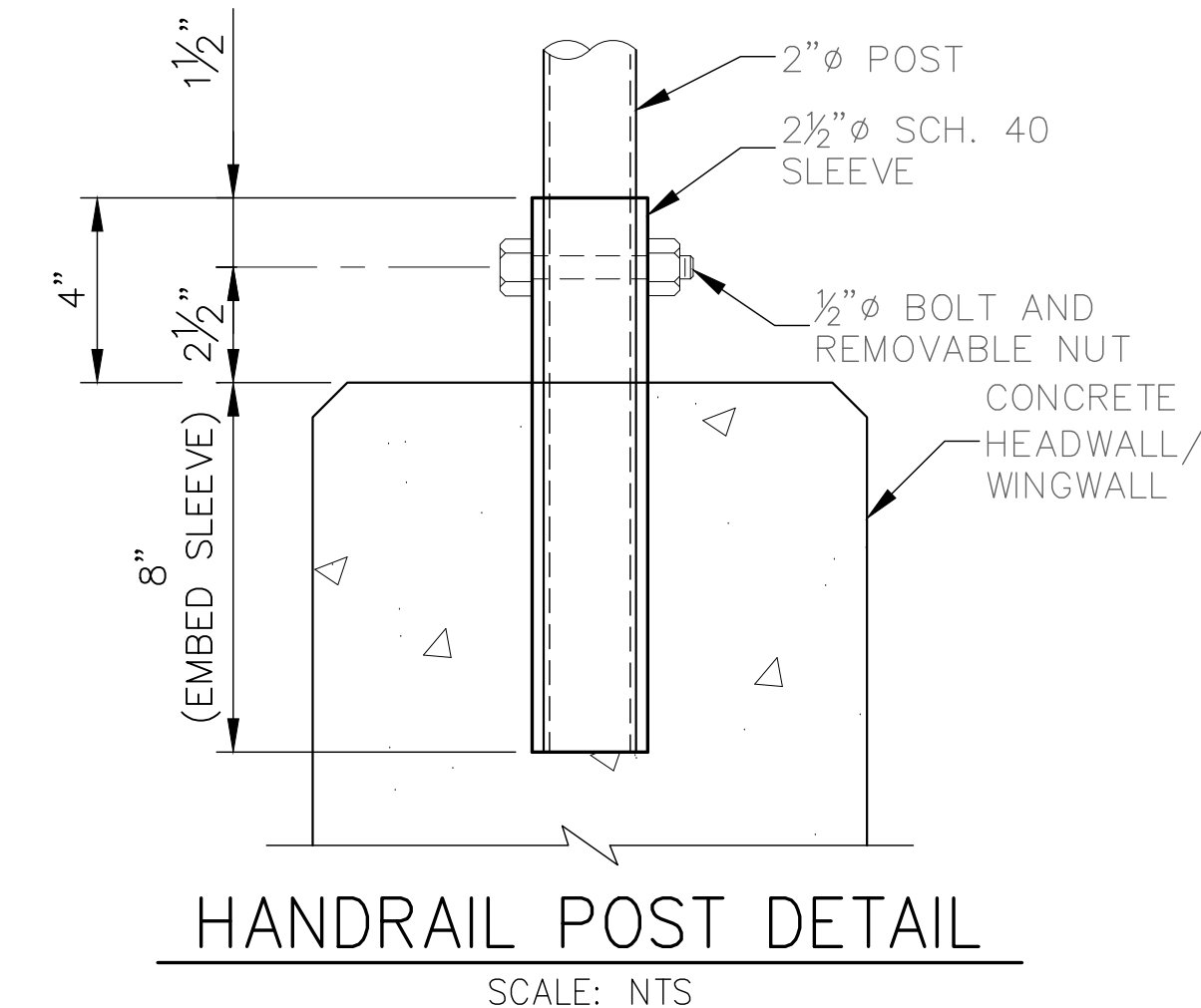
OVERFLOW GRATE DETAILS
N.T.S.



PEDESTRIAN RAILING DETAIL
SCALE: NTS



CLOSE MESH GRATE DETAIL
N.T.S.



HANDRAIL POST DETAIL
SCALE: NTS

GENERAL STRUCTURE NOTES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OR COUNTY STANDARD CONSTRUCTION SPECIFICATIONS. EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT M-206-1, AND M-206-2 EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO A 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OF OTHER.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING ALL BRACING AND SHORING AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXCAVATION PROCEDURES INCLUDING ANY SHORING REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL METHODS AND MEANS OF CONSTRUCTION AS WELL AS ALL JOB SITE SAFETY & HEALTH PRECAUTIONS.

ALL SOILS WORK INCLUDING (BUT NOT LIMITED TO) PIER DRILLING AND CONSTRUCTION, SOILS EXCAVATION, FILL PLACEMENT, AND STRUCTURE BACKFILL SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT, UNLESS MORE STRINGENT REQUIREMENTS ARE PRINTED ON THE "IRRIGATION NOTES".

BACKFILL SHALL NOT BEGIN UNTIL CONCRETE WALLS REACH COMPRESSION STRENGTH AT LEAST 80 PERCENT OF THE REQUIRED 28 DAY STRENGTH, 0.8fc.

REINFORCED CONCRETE:
CLASS D CONCRETE: fc=4,500 psi
REINFORCING STEEL: fy=60,000 psi
ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS D UNLESS NOTED OTHERWISE.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 U.N.O.
REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
ALL REINFORCING, EXCEPT PIER REINFORCING, SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM A775.
ALL REINFORCING SHALL HAVE 2" CONCRETE COVER, U.N.O. ON PLANS, 3" AGAINST GROUND (BOTTOM SLAB)
ALL REINFORCING SHALL BE HOOKED AROUND CORNERS AND LAPPED, SEE DETAILS.
ALL LAP SPICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B (STAGGERED) LAP SPICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACE IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER. INCREASED BY 40% FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW (TOP BARS), AND INCREASED BY 75% IF BOTH CONDITIONS EXIST. THE INCREASES ABOVE FOR #6 THRU #11 BARS MAY BE 25%, 13%, AND 42% RESPECTIVELY.

#4	1'-3"	#5	1'-7"
#6	2'-5"	#7	2'-10"
#8	3'-8"	#9	4'-8"
#10	5'-11"	#11	7'-3"

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS. THE MINIMUM LAP SPICE SHALL BE AS DESCRIBED ABOVE.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CONTRACTOR SHALL SUBMIT REINFORCING STEEL PLACING DRAWINGS (PRIOR TO CONSTRUCTION) TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE DESIGN DRAWINGS. THE DESIGN DRAWINGS SHALL GOVERN OVER PLACING DRAWINGS IN ALL CASES UNLESS MODIFICATIONS ARE APPROVED IN WRITING BY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

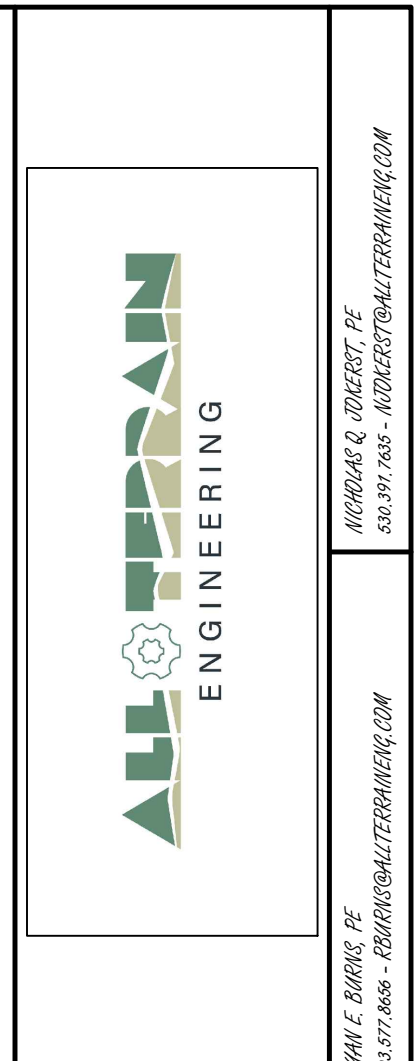
E.F. = EACH FACE
F.E. = FAR FACE
N.F. = NEAR FACE
I.F. = INSIDE FACE
T.W. = TWO WAY
E.S. = EACH SIDE
O.F. = OUTSIDE FACE
T.&B. = TOP AND BOTTOM
T.F. = TOP FACE
B.F. = BOTTOM FACE
T.F. = TWO FACES
Lp = LAP LENGTH

CAST-IN-PLACE STRUCTURAL NOTES:

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- ALL CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- DO NOT BACKFILL UNTIL CONCRETE HAS REACHED DESIGN STRENGTH, F_c.
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- CONTRACTOR SHALL SUBMIT STEEL REINFORCING SHOP DRAWINGS FOR ALL CAST-IN-PLACE STRUCTURES FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION. REINFORCING SHOWN IS FOR INFORMATION ONLY.
- HEADWALLS FOR PIPES SHALL BE CONSTRUCTED PER CDOT M-601-10.
- WINGWALLS SHALL BE CONSTRUCTED PER CDOT M-601-20.

OUTLET STRUCTURE PLATE AND GRADING NOTES:

- ORIFICE PLATE:**
- PROVIDE CONTINUOUS GASKET BETWEEN THE ORIFICE PLATE AND CONCRETE AND BETWEEN THE RESTRICTOR PLATE AND CONCRETE.
 - THE GASKET SHALL BE MADE OF 1/4-INCH THICK, 60 DUROMETER EPDM RUBBER IN A CONTINUOUS SHEET THE SIZE OF THE ORIFICE PLATE. THE SHEET SHALL BE PLACED BETWEEN THE ORIFICE PLATE AND THE CONCRETE WALL, WITH THE WIDTH OF THE OVERLAP BETWEEN THE PLATE AND THE CONCRETE. OPENINGS SHALL BE CUT INTO THE SHEET CORRESPONDING TO THE PLATE BOLT HOLES AND THE CONCRETE WALL OPENING. CUTS MADE EITHER BY THE CONTRACTOR IN THE FIELD OR BY THE MANUFACTURER, OR EQUIVALENT APPROVED BY EPC.
 - BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.
- TRASH RACKS:**
- TRASH RACKS SHALL BE 1/4" SCH.40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2"x2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
 - REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
 - STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 - STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
 - ALL HARDWARE, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.



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DATE	DESCRIPTION

DESIGN: NQJ
REVIEW: REB
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H-SCALE: NTS
V-SCALE: NTS
SHEET

