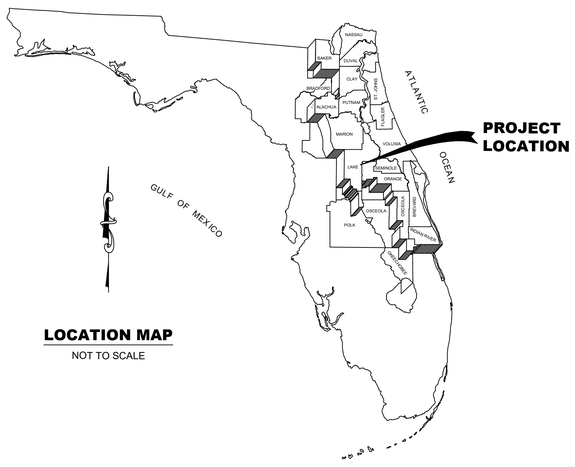
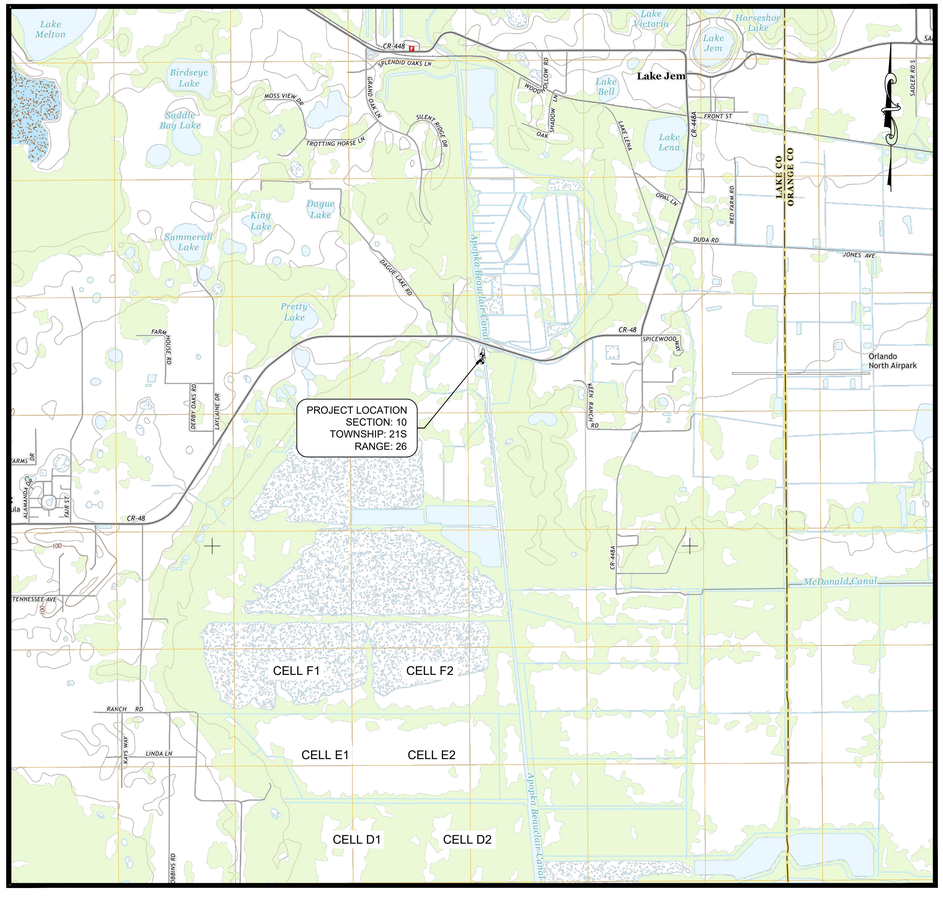
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
UPPER OCKLAWAHA RIVER BASIN
APOPKA LOCK AND DAM MANATEE SCREENS
LAKE COUNTY, FLORIDA

NGVD 1929

ALL ELEVATIONS DEPICTED HEREIN REFERENCE NGVD 1929 UNLESS OTHERWISE NOTED. THE CONVERSION FACTOR TO NAVD 1988 IS -1.08.



LOCATION MAP
NOT TO SCALE



QUAD REFERENCE
USGS 7.5' QUADRANGLE MAP
ASTATULA, FLORIDA 2015

VICINITY MAP

GRAPHIC SCALE
0 2000 4000
SCALE: 1" = 2000'

INDEX OF PLANS

ENGINEER'S NOTES:

1. These drawings are prepared for the sole and exclusive use of the St. Johns River Water Management District and shall not be relied upon by any other entity or individual.
2. Reproductions of these drawings are "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED ENGINEER."

NO.	REVISION	BY	DATE	APPROVED	DATE
1	ISSUED FOR BID	N.J.G.	09/05/23	W.R.C.	09/05/23

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CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

DRAWING FILENAME: CVR CD.dwg
SHEET: C1

U:\Projects\DODAPOPKA\APOPKA LOCK AND DAM MANATEE SCREENS\05 Production Drawings\CIVIL\CVR CD.dwg

GRAPHIC SCALE
0 10 20
SCALE: 1" = 10'

PROPERTY LINE

ORIGINAL LOCK TENDER BLDG.

ACCESS ROAD

R/W

MANATEE SCREEN

LOCK TENDER BLDG.

TURBIDITY BARRIER

EL. 61.0'

U.S. BULKHEADS

FLOW

GATE "A"

GATE "B"

LOCK 67'-0"

15'

7'-0"

20' RIPRAP

D.S. BULKHEADS

TURBIDITY BARRIER

EL. 56.0'

FLOW

FENDER SYSTEM

10' RIPRAP

FLOW

FLOW

FENDER SYSTEM

EL. 58.0'

34'

FIXED WEIR

20'

20'

RADIAL GATES

20'

34'

EL. 62.0'

EL. 62.0'

℄ CANAL

FLOW

LIMITS OF RIPRAP

MANATEE SCREEN (TYP.)

FLOW

℄ CANAL

FLOW

PROPERTY LINE

PROPERTY LINE

R/W

C2
1
SITE PLAN

LEGEND:

- LIMITS OF RIPRAP
- RIPRAP
- SECTION SHEET NUMBER / SECTION LABEL

NOTES:

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2. ALL ELEVATIONS ARE BASE ON NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
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FOR BID PURPOSES ONLY
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U:\Projects\CAD\APOPKA\APOPKA LOCK AND DAM MANATEE SCREENS\05 Production Drawings\CIVIL\APL&DAM SPN.dwg

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UPPER OCKLAWAHA RIVER BASIN
APOPKA LOCK AND DAM MANATEE SCREENS
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

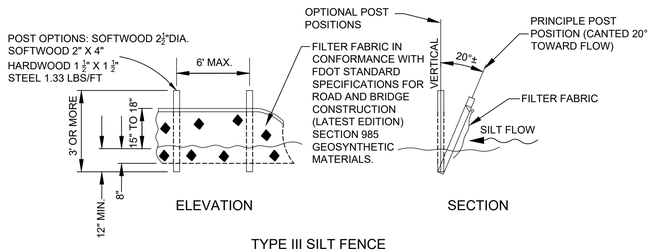
DRAWN: N.J.G.	DATE: SEPTEMBER 5, 2023	REVIEWER: W.R.C.
SCALE: 1" = 20'	DESIGNER: W.R.C.	SECTION CHIEF: W.R.C.

SITE PLAN

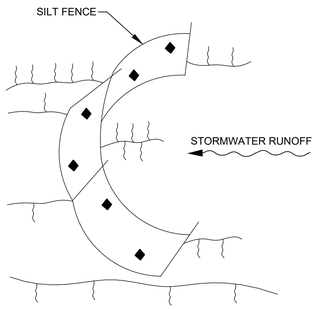
CERTIFICATION:

WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

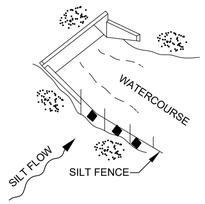
FILE NAME: APL&DAM SPN.dwg
PROJECT NO.:
SHEET: C2

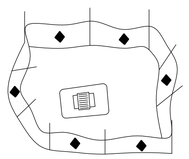


TYPE III SILT FENCE



SILT FENCE PROTECTION IN
DITCHES WITH INTERMITTENT FLOW





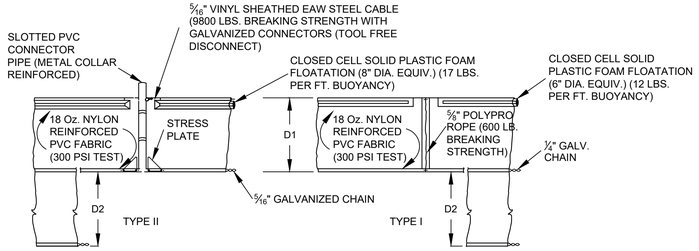
SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS

SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH SECTION V OF THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (JULY 2013).
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (LF).

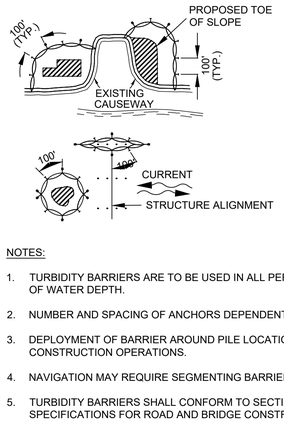
TEMPORARY SILT FENCE DETAIL
NOT TO SCALE



D1= 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D2= 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

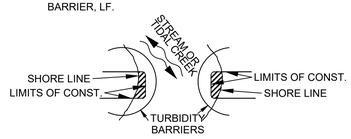
NOTICE: COMPONENTS OF TYPE I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGN. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
NOT TO SCALE



GENERAL NOTES:

1. FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
2. STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.

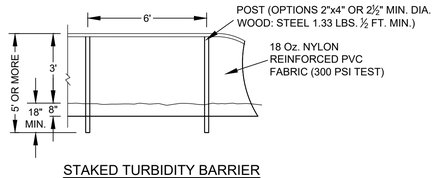


NOTES:

1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. TURBIDITY BARRIERS SHALL CONFORM TO SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

LEGEND
- PILE LOCATIONS
- DREDGE OR FILL AREA
- MOORING BUOY W/ANCHOR
- ANCHOR
- BARRIER MOVEMENT DUE TO CURRENT ACTION

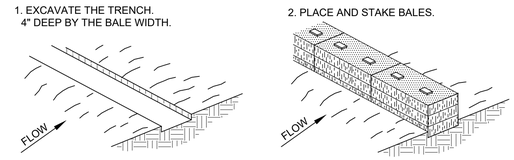
TURBIDITY BARRIER APPLICATIONS
NOT TO SCALE

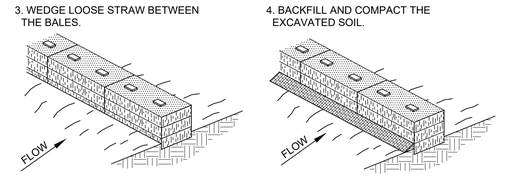


STAKED TURBIDITY BARRIER
NOT TO SCALE

NOTES:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTIONS UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE DISTRICT.





NOTES:

1. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
2. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE BARRIER
NOT TO SCALE

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL WORK AT COMPLETION OF CONSTRUCTION.
2. ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
3. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
4. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
5. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND GRASSED.
7. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS, PERMITS, AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT CRITERIA.
8. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION).
9. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, WATERED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. GRASSING SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 570 AND 981 THRU 983 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITIONS). NOTE THAT OTHER GRASSING ALTERNATIVES MAY BE USED WITH PRIOR DISTRICT APPROVAL.

PERMIT CONDITIONS FOR MANATEE PROTECTION:

1. **MANATEES ARE EXPECTED TO BE PRESENT AT THIS SITE DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL STANDARD MANATEE CONDITIONS IN THE PERMIT.**
2. **SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.**
3. **CONTRACTOR SHALL PROVIDE MANATEE PROTECTION SCREENS WITH A MAXIMUM 8-INCH OPENING FOR ANY AND ALL DEWATERING OUTLET PIPES.**

FOR BID PURPOSES ONLY
NOT FOR CONSTRUCTION

NO.	REVISION	BY	DATE	APPROVED	DATE
1	ISSUED FOR BID	N.J.G.	09/05/23	W.R.C.	09/05/23

UPPER OCKLAWAHA RIVER BASIN
APOPKA LOCK AND DAM MANATEE SCREENS
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G.	DATE: SEPTEMBER 5, 2023	REVIEWER: W.R.C.
SCALE: AS NOTED	DESIGNER: W.R.C.	SECTION CHIEF: W.R.C.

EROSION AND SEDIMENT CONTROL

CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

FILE NAME: EROSION AND SEDIMENT.dwg
PROJECT NO.:
SHEET: C3

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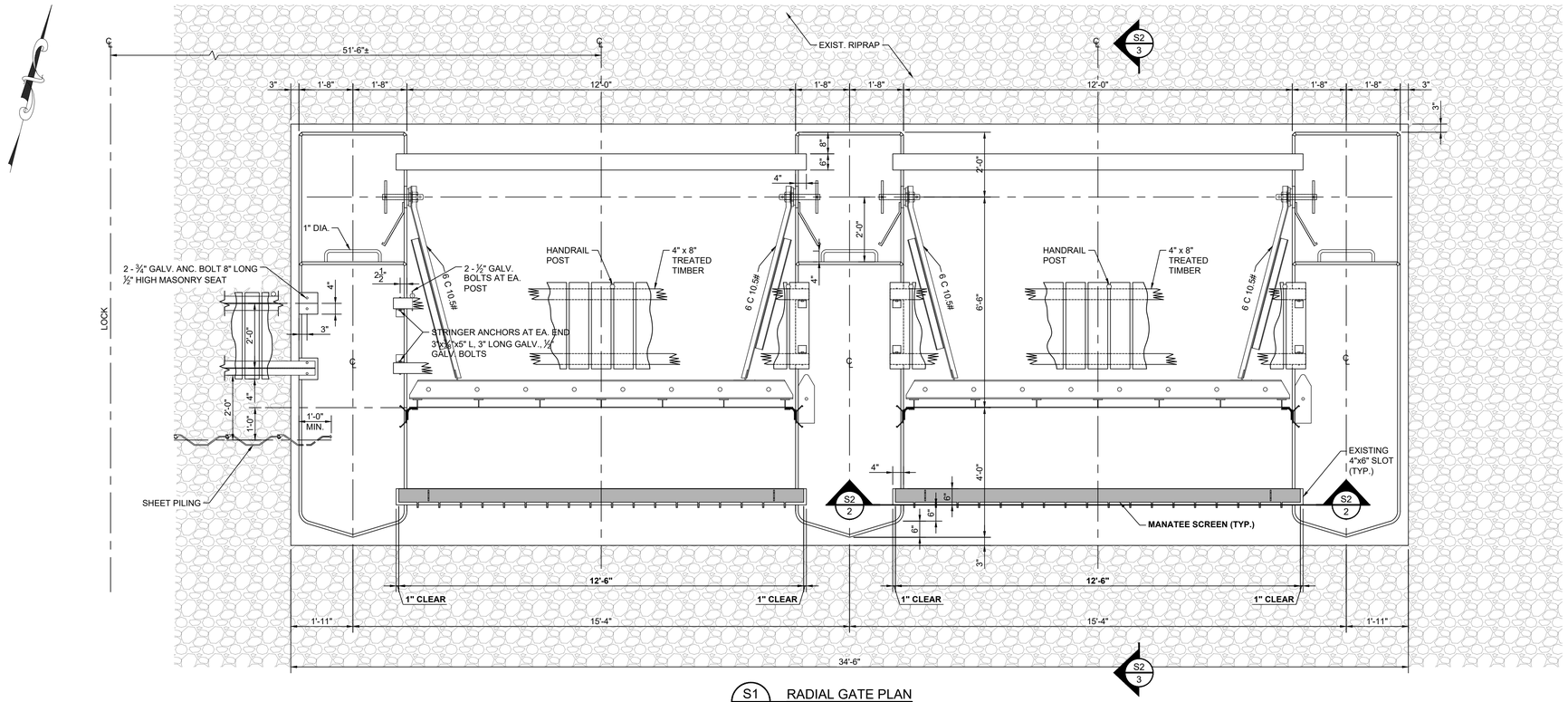

S1
1
RADIAL GATE PLAN

0' 1' 2'
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. ALL PROPOSED WORK IS SHOWN AND NOTED IN BOLD.
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3. THE EXISTING CONDITIONS PRESENTED IN THESE DRAWINGS ARE BELIEVED TO BE ACCURATE ACCORDING TO THE INFORMATION AVAILABLE TO THE DISTRICT. HOWEVER, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DISTRICT.

MANATEE SCREEN NOTES:

1. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE AWS D1.1.
3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE NEW AND CONFORM TO THE REQUIREMENTS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARD A36 UNLESS NOTED OTHERWISE.
4. ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A276, TYPE 304, UNLESS NOTED OTHERWISE. THE SIZE AND LOCATION OF REPLACEMENT BOLTS SHALL MATCH EXISTING.
5. ALL WELDING SHALL UTILIZE E70XX LOW-HYDROGEN ELECTRODES UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF THE SCREENS AND SUBMIT SHOP DRAWINGS TO THE DISTRICT FOR REVIEW AND APPROVAL.
7. THE SCREEN ASSEMBLIES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS.
8. ALL UNDERWATER CONCRETE ANCHORS SHALL UTILIZE THE HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM, OR EQUAL. THREADED ANCHOR RODS, SHALL BE ¾" DIA. X 8-1/2" LONG HAS-R 316 STAINLESS STEEL WITH A MINIMUM EMBEDMENT DEPTH OF 6-3/4". NUTS AND WASHERS SHALL ALSO BE SS-316.
9. FIELD CORRECTING OF FABRICATED STEEL SHALL NOT BE PERMITTED ON STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

STEEL BULKHEAD NOTES:

1. THE CONTRACTOR SHALL INSTALL UPSTREAM AND DOWNSTREAM STEEL BULKHEADS PRIOR TO INSTALLING LOCK BARRIERS. THE BULKHEADS ARE CURRENTLY STORED ONSITE ADJACENT TO THE LOCK. THE UPSTREAM BULKHEAD IS 16'-2" WIDE x 10'-0" TALL. THE DOWNSTREAM BULKHEAD IS 15'-6" WIDE x 12'-0" TALL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING THE JOINTS FOR DEWATERING THE LOCK. THE USE OF DIVERS WILL BE REQUIRED FOR SEALING THE JOINTS AND CLEANING OUT THE LOCK BOTTOM SLOTS OF ANY SEDIMENT AND DEBRIS.
3. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE THE BULKHEADS AND REPLACE THEM TO THEIR STORAGE LOCATION ADJACENT TO THE LOCK.

FOR BID PURPOSES ONLY
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APOPKA LOCK AND DAM MANATEE SCREENS
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ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G.	DATE: SEPTEMBER 5, 2023	REVIEWER: W.R.C.
SCALE: 1/2" = 1'-0"	DESIGNER: W.R.C.	SECTION CHIEF: W.R.C.

DAM PLAN AND NOTES

CERTIFICATION:

WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

FILE NAME: AL&D MTE SCRN.dwg
PROJECT NO.:
SHEET: S1

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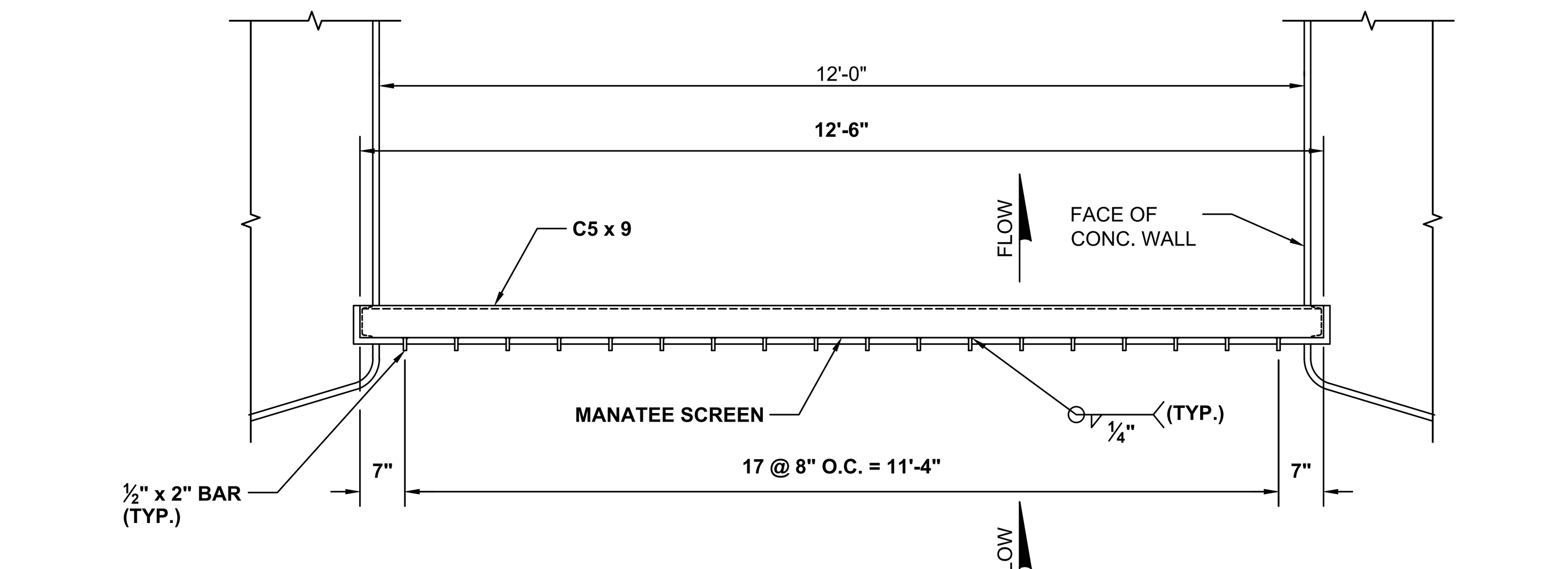
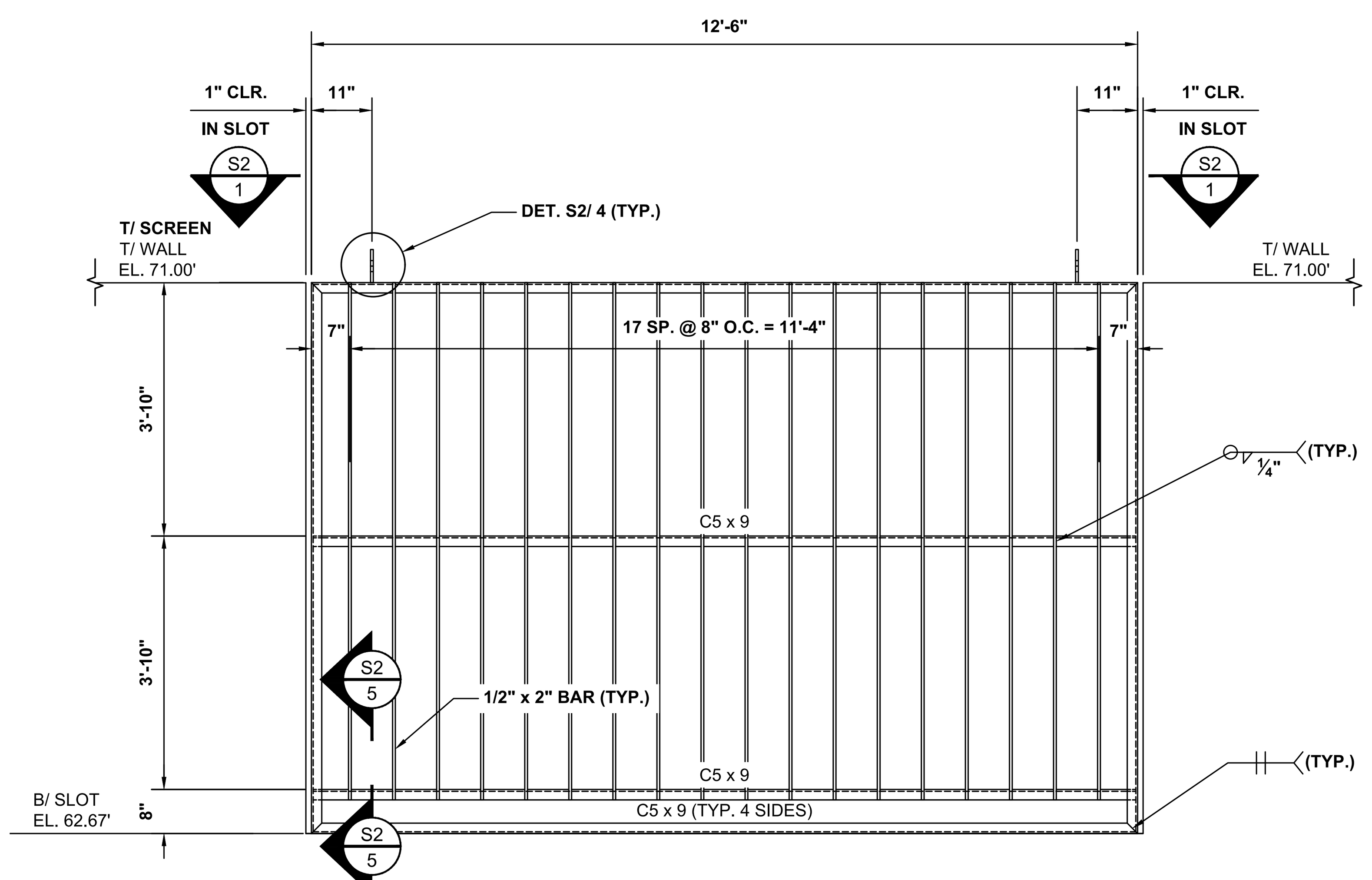


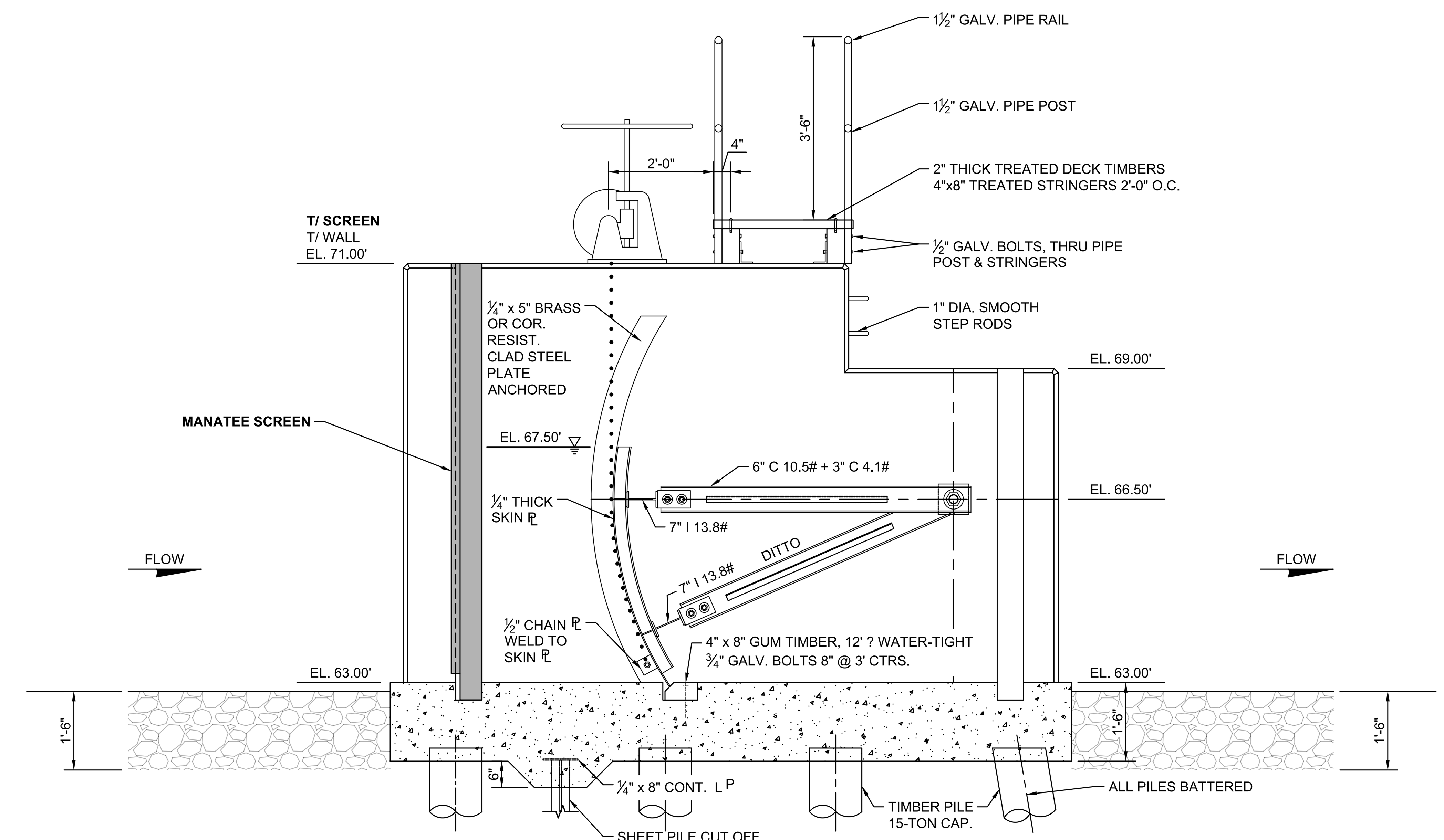
S2 1 MANATEE PROTECTION SCREEN (2 REQ'D) PLAN

SCALE: 1/2" = 1'-0"



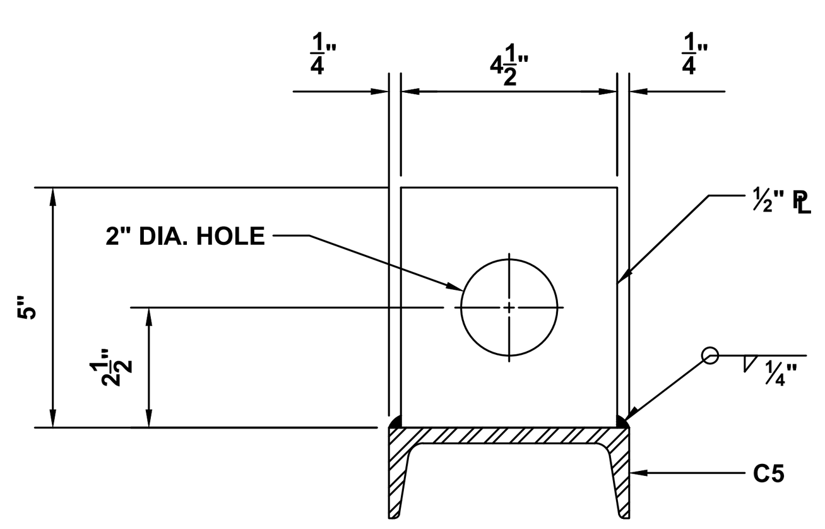
S2 2 MANATEE PROTECTION SCREEN (2 REQ'D) ELEVATION

SCALE: 1/2" = 1'-0"



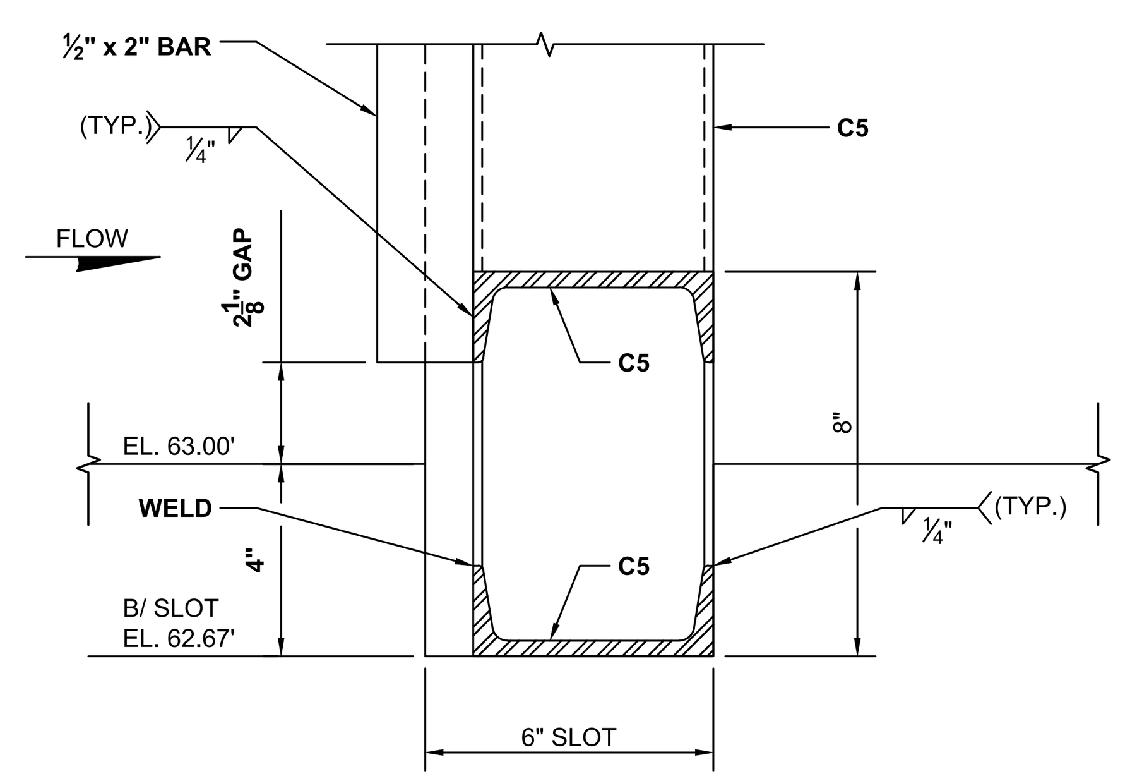
S2 3 MANATEE PROTECTION SCREEN SECTION

SCALE: 1/2" = 1'-0"



S2 4 LIFT PLATE DETAIL

SCALE: 3" = 1'-0"



S2 5 BOTTOM OF SCREEN

SCALE: 3" = 1'-0"

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WATER MANAGEMENT DISTRICT
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DRAWN: N.J.G. | DATE: SEPTEMBER 5, 2023 | REVIEWER: W.R.C.
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DAM SECTION AND MANATEE SCREENS

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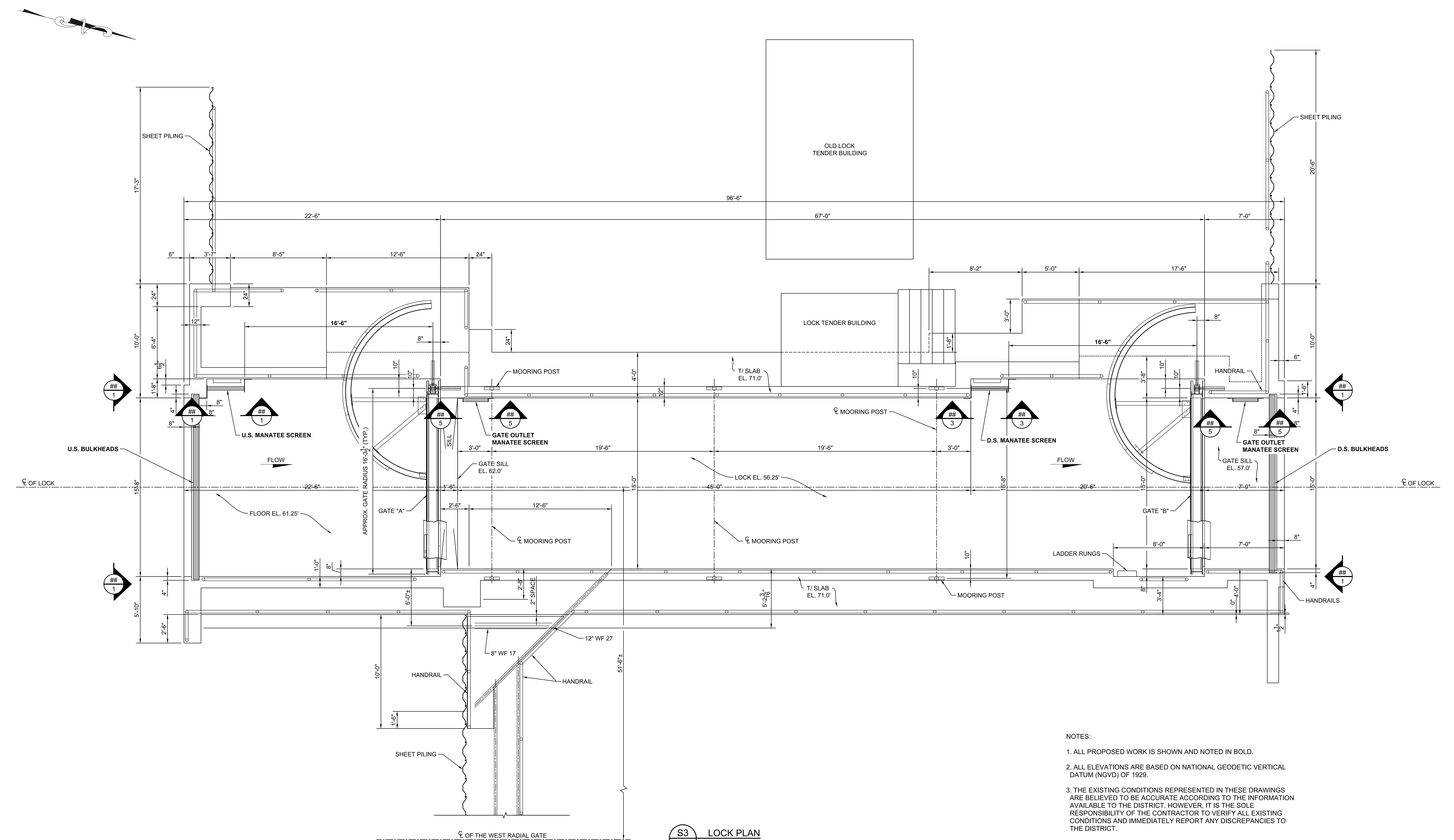
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

FILE NAME: AL&D MTE SCRN.dwg
PROJECT NO.:
SHEET: S2



S3
1
LOCK PLAN
SCALE: 1/4" = 1'-0"

NOTES:

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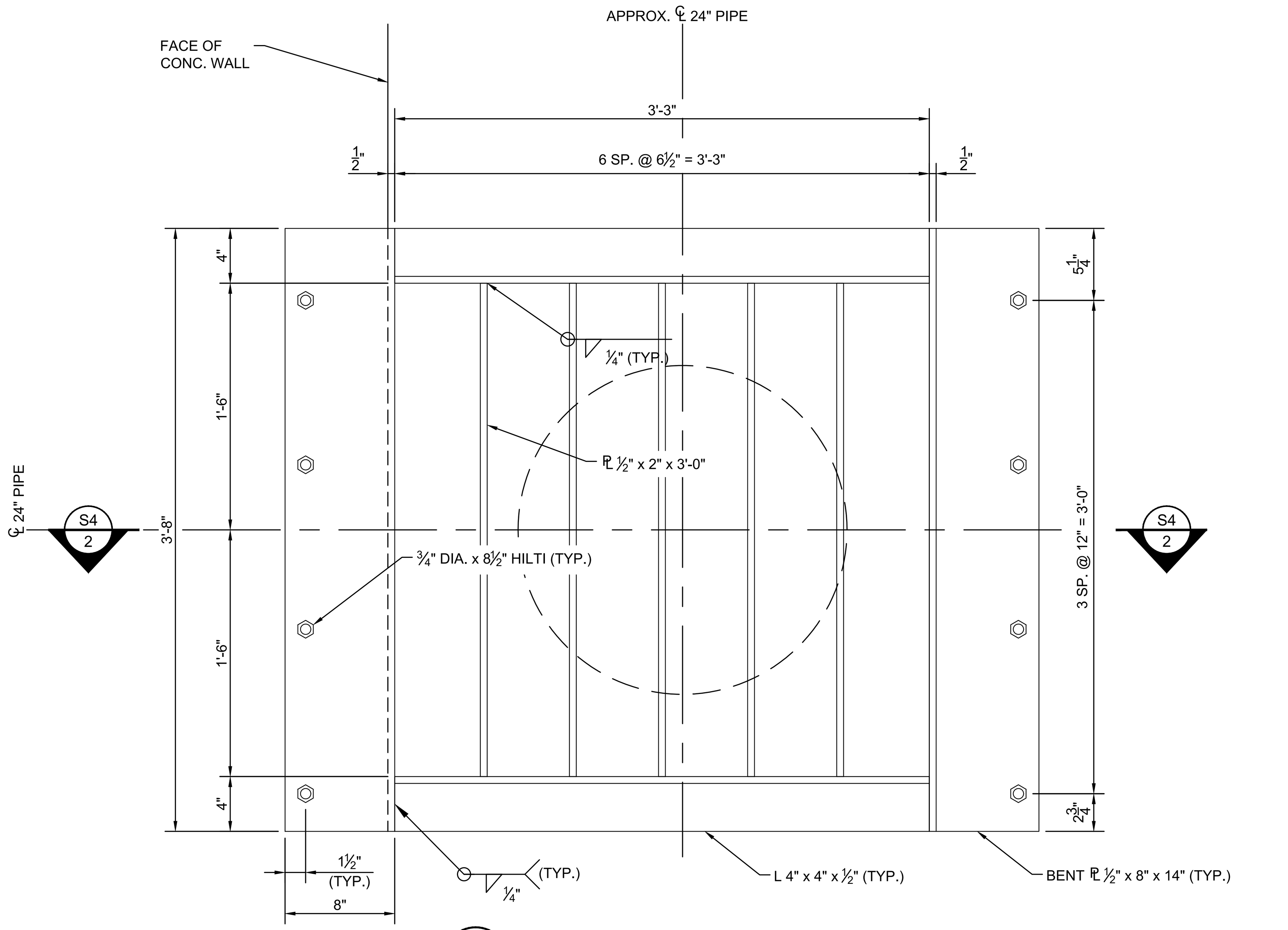
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. | DATE: SEPTEMBER 5, 2023 | REVIEWER: W.R.C.
SCALE: 1/4" = 1'-0" | DESIGNER: W.R.C. | SECTION CHIEF: W.R.C.

LOCK STRUCTURE PLAN

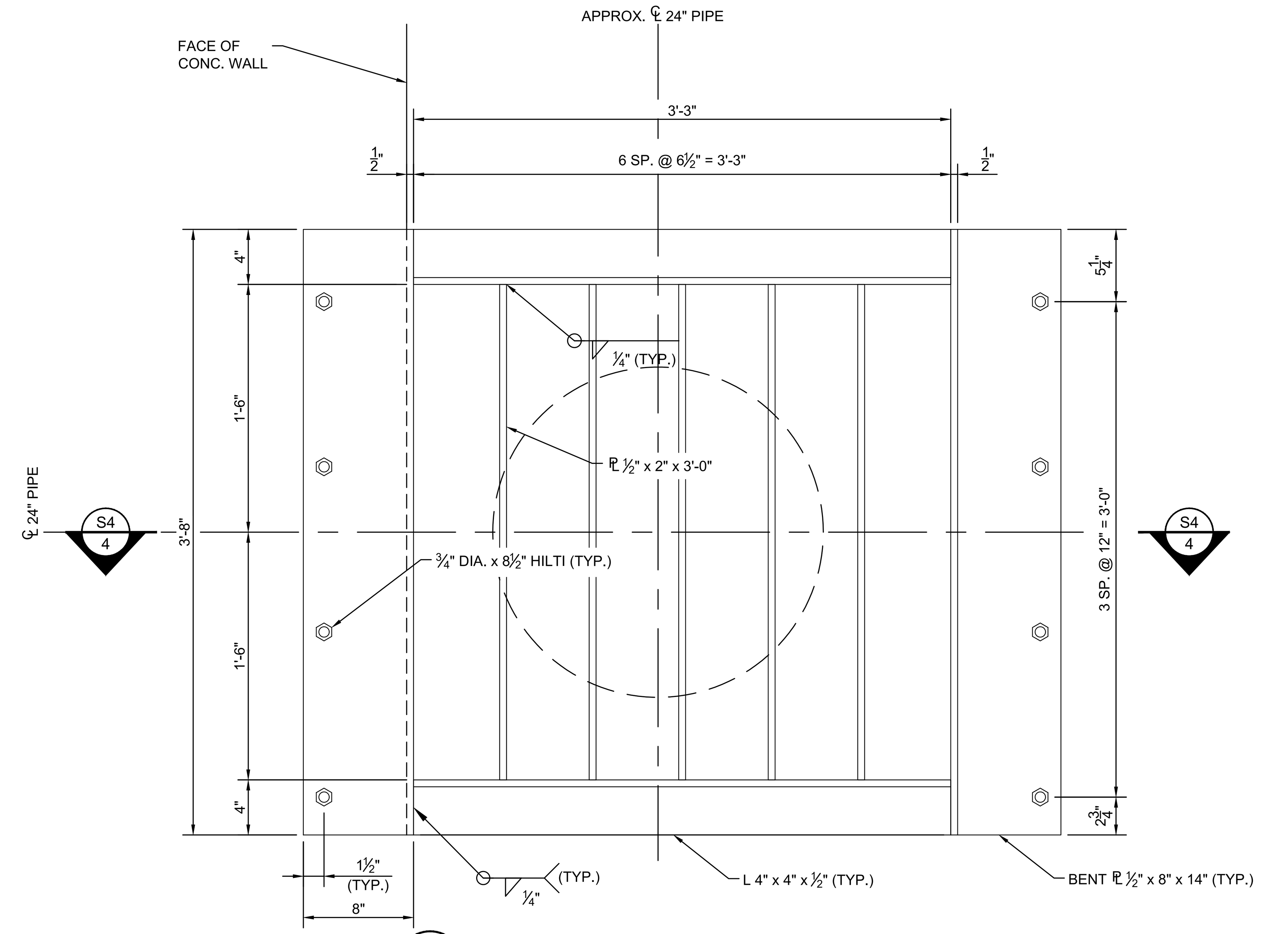
CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: SEPTEMBER 5, 2023

FILE NAME: AL&D MTE SCRN.dwg
PROJECT NO.:
SHEET: S3



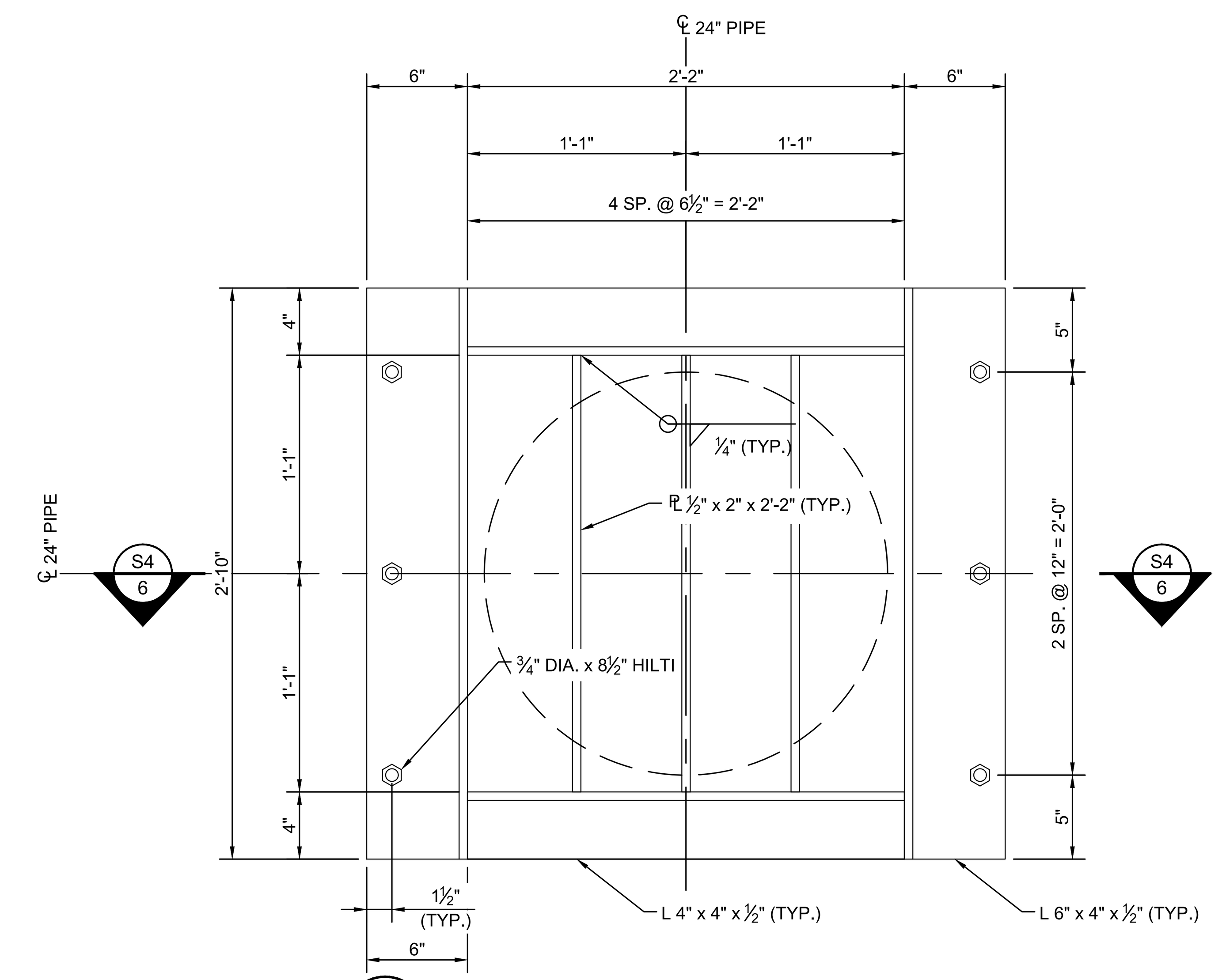
S4 1 UPSTREAM GATE SCREEN ELEVATION(1 REQ'D)

SCALE: 1 1/2" = 1'-0"



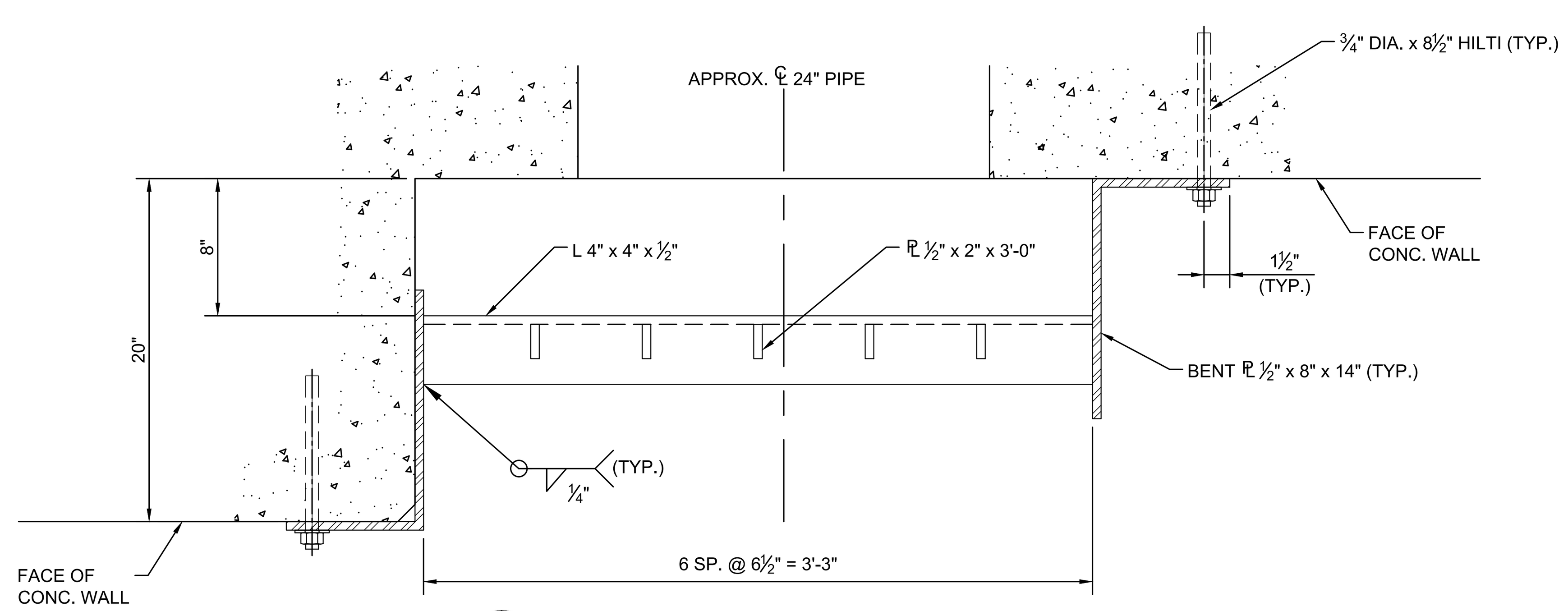
S4 3 DOWNSTREAM GATE SCREEN ELEVATION (1 REQ'D)

SCALE: 1 1/2" = 1'-0"



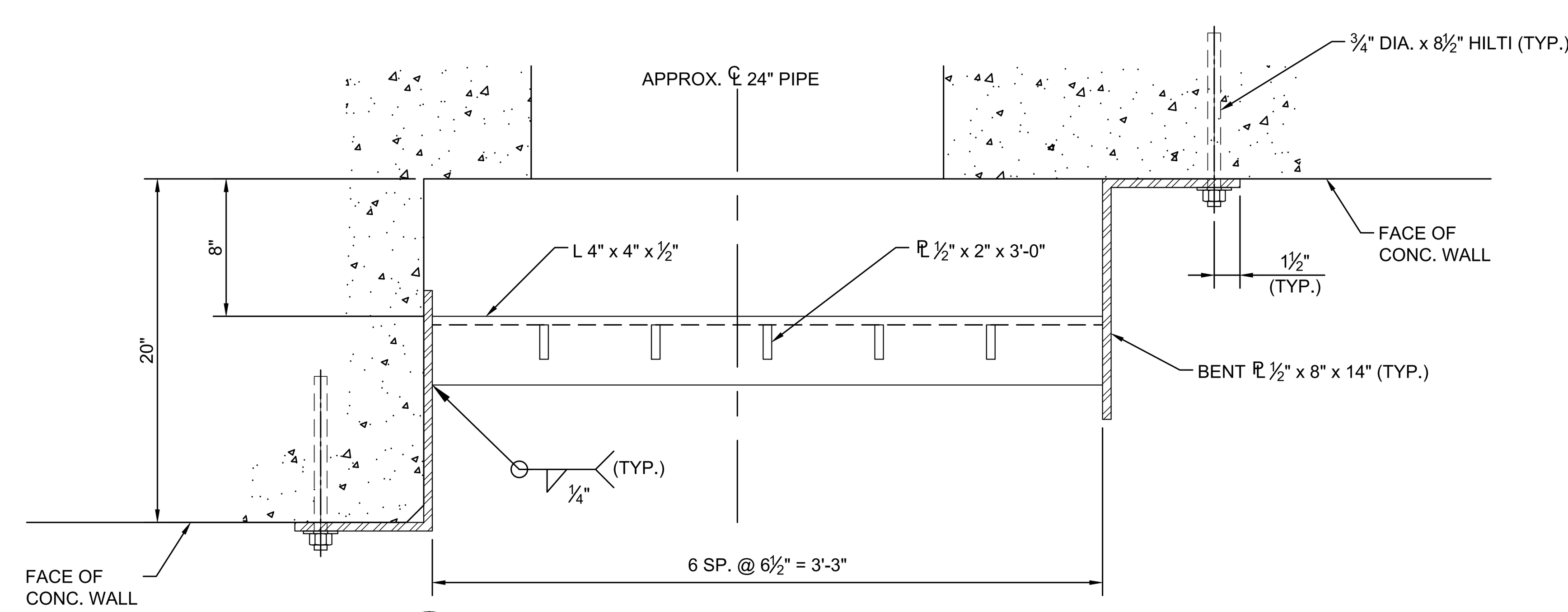
S4 5 GATE OUTLET MANATEE SCREEN ELEVATION (2 REQ'D)

SCALE: 1 1/2" = 1'-0"



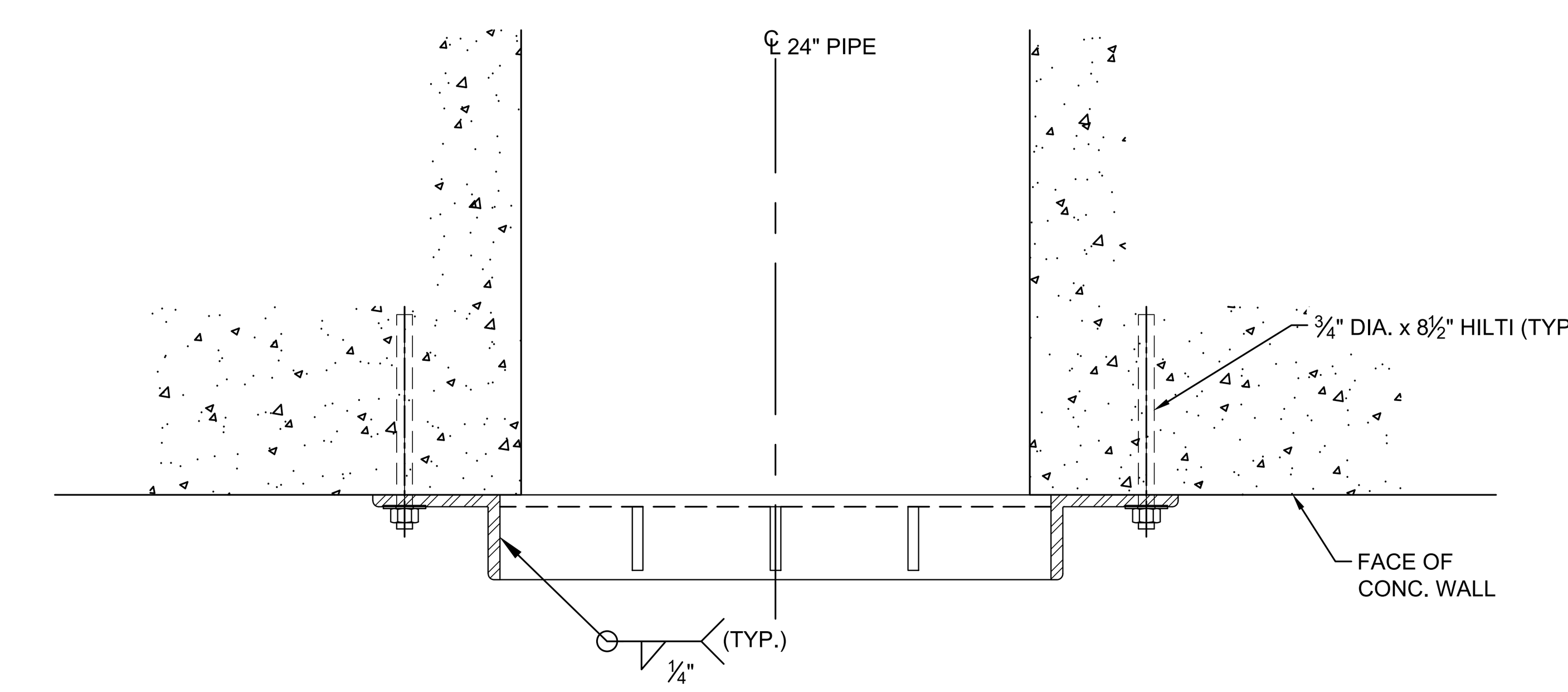
S4 2 UPSTREAM SCREEN SECTION

SCALE: 1 1/2" = 1'-0"



S4 4 DOWNSTREAM SCREEN SECTION

SCALE: 1 1/2" = 1'-0"



S4 6 GATE OUTLET SCREEN SECTION

SCALE: 1 1/2" = 1'-0"

FOR BID PURPOSES ONLY
NOT FOR CONSTRUCTION

NO.	REVISION	BY	DATE	APPROVED	DATE
1	ISSUED FOR BID	N.J.G.	09/05/23	W.R.C.	09/05/23

UPPER OCKLAWAHA RIVER BASIN
APOPKA LOCK AND DAM MANATEE SCREENS
LAKE COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: SEPTEMBER 5, 2023 REVIEWER: W.R.C.
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LOCK STRUCTURE MANATEE SCREENS

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