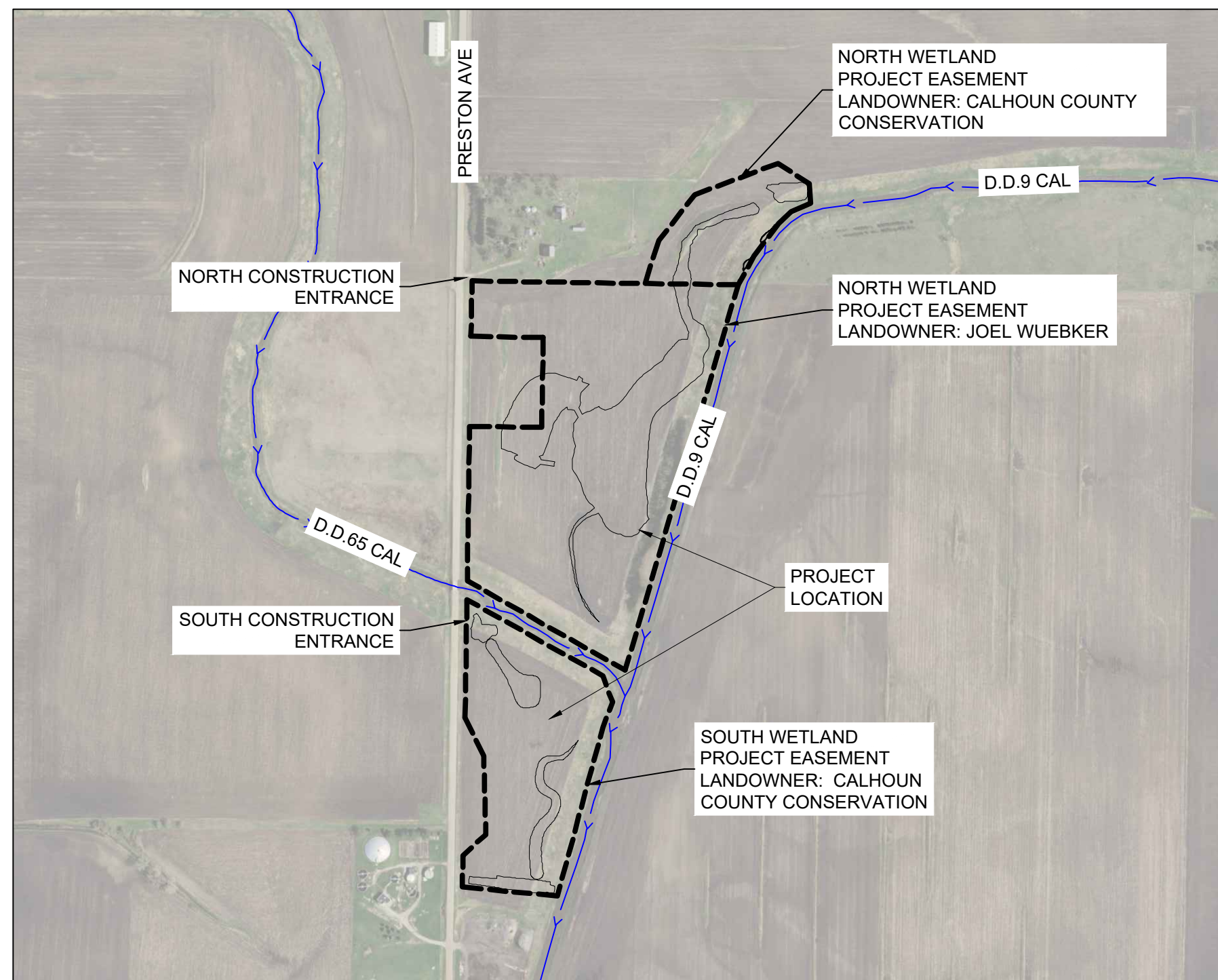
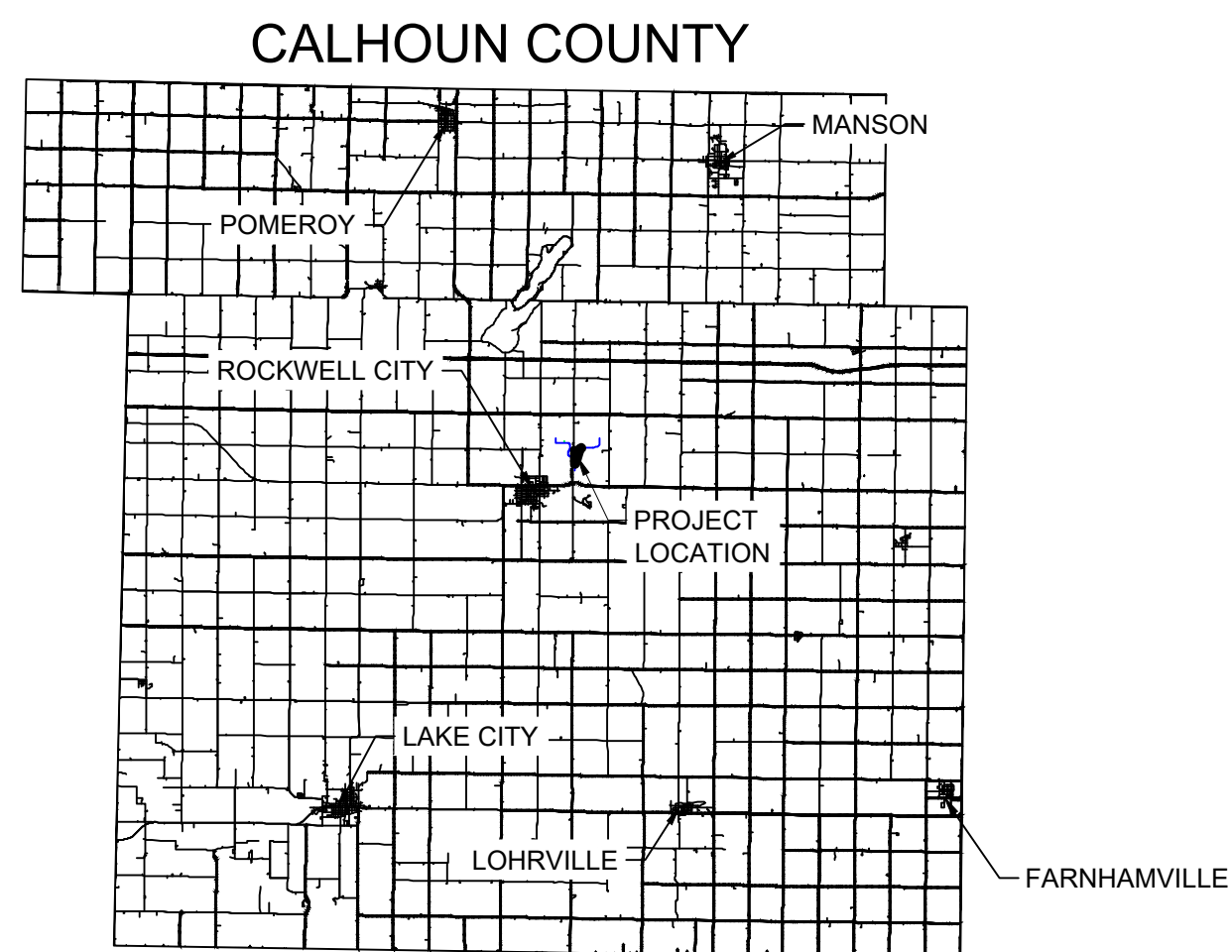
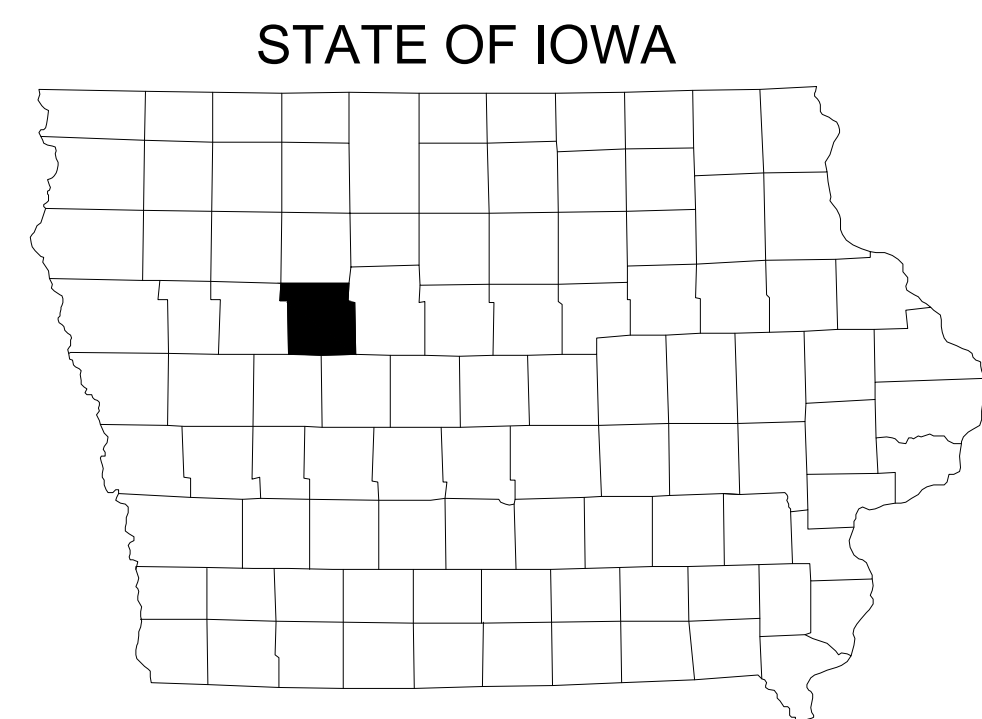


CAL883229B PUMPED WETLANDS

IDALS

ROCKWELL CITY, IOWA



Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	PROJECT QUANTITIES
C002	PROJECT NOTES
CD01	EXISTING CONDITIONS AND REMOVALS
C101	NORTH WETLAND GRADING PLAN
C102	NORTH WETLAND CUT-FILL PLAN
C103	NORTH WETLAND DRAWDOWN PLAN AND PROFILE
C104	NORTH WETLAND PUMP STATION 1 PLAN AND PROFILE
C105	NORTH WETLAND PUMP STATION 2 PLAN AND PROFILE
C106	NORTH SEEDING PLAN
C201	SOUTH WETLAND GRADING PLAN
C202	SOUTH WETLAND CUT-FILL PLAN
C203	SOUTH EMBANKMENT PLAN AND PROFILE
C204	SOUTH WETLAND DRAWDOWN PLAN AND PROFILE
C205	SOUTH WETLAND PUMP STATION PLAN AND PROFILE
C206	SOUTH SEEDING PLAN
C301	CONSTRUCTION DETAILS
C302	CONSTRUCTION DETAILS
C303	CONSTRUCTION DETAILS
C304	CONSTRUCTION DETAILS
C305	NORTH WETLAND DUPLEX PUMP DETAILS
C306	SOUTH WETLAND SIMPLEX PUMP DETAILS
E101	NORTH WETLAND PUMP STATION
E102	SOUTH WETLAND PUMP STATION

CONTACT INFORMATION:

ENGINEER
 SHIVE-HATTERY, INC
 ATTN: DAN JENSEN
 4125 WESTOWN PARKWAY, SUITE 100
 WEST DES MOINES, IOWA 50266
 PH: (515) 223-8104
 FX: (515) 223-0622

LANDOWNERS
 JOEL WUEBKER
 2588 QUINTON AVE
 ROCKWELL CITY, IA 50579
 PH: (712) 297-0609

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
 SARA SMITH
 502 E 9TH ST
 DES MOINES, IA, 50319
 OFFICE PH: (515) 242-6130
 SARA.SMITH@IOWAAGRICULTURE.GOV

CALHOHN COUNTY CONSERVATION
 CURTIS VANDERHEIDEN
 1228 HIGH ST
 ROCKWELL CITY, IA, 50579
 OFFICE PH: (712) 297-7131
 CONSERVATION@CALHOHNCOUNTY.IOWA.GOV

DRAINAGE DISTRICT
 BRIAN BLOME
 ROCKWELL CITY, IA, 50579
 BBLOMME@BVCOUNTYIOWA.COM

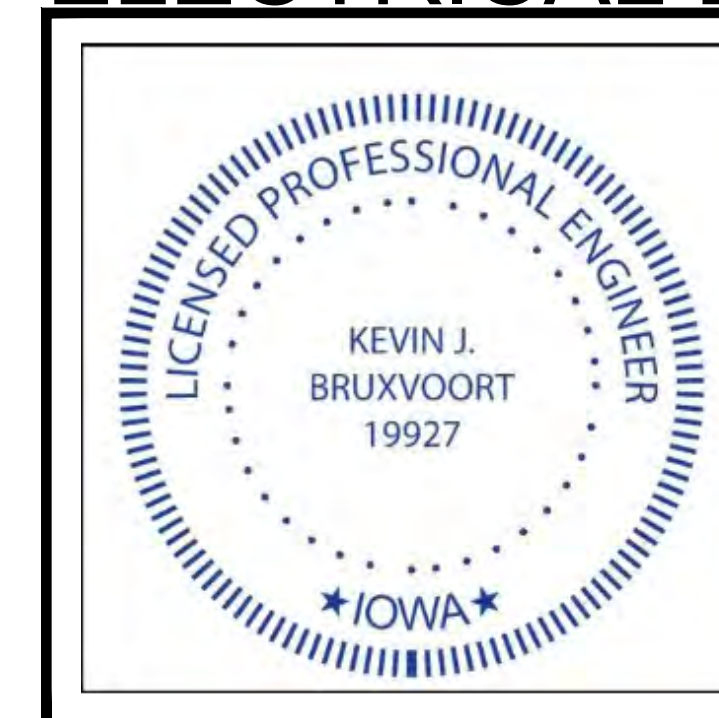
SITE ADDRESS:
 2579 PRESTON AVE
 ROCKWELL CITY, IA, 50579

PROJECT DRAWING COORDINATE SYSTEM:
 HORIZONTAL: NAD83 IOWA STATE PLANE
 NORTH ZONE (1401)
 VERTICAL: NAVD88
 UNITS: U.S. SURVEY FEET

THE ENGINEERING JOB CLASS IS IV

NRCS NEM PART 505 CERTIFICATION
 THE SIGNING PROFESSIONALS HEREBY CERTIFY THAT, TO THE BEST OF THEIR PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF, THESE PLANS MEET APPLICABLE NRCS STANDARDS.

ELECTRICAL ENGINEER

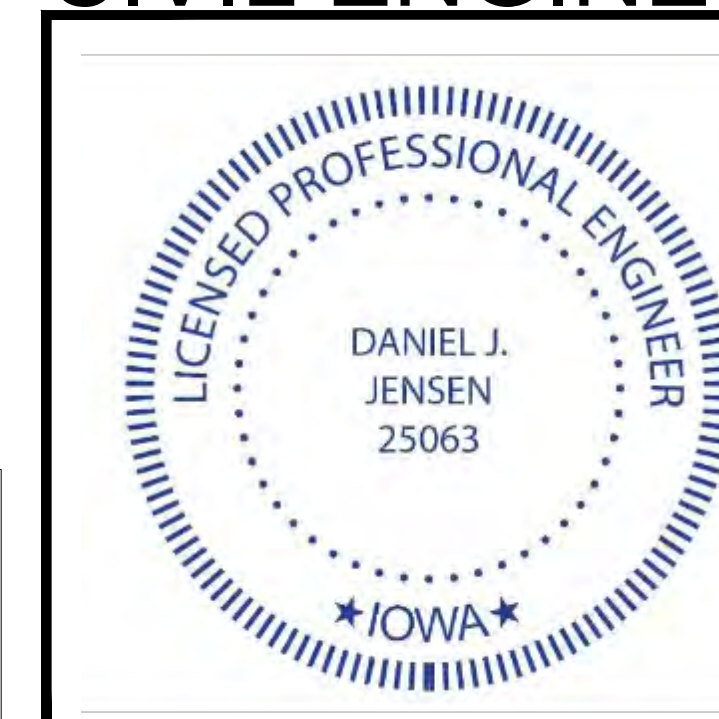


I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Signature: *Kevin Bruxvoort* Date: 04-28-2026

Printed or typed name: KEVIN J. BRUXVOORT
 License Number: 19927
 My License Renewal Date is: DECEMBER 31, 2027
 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
 ALL 'E' SHEETS

CIVIL ENGINEER



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Signature: *Dan Jensen* Date: 04-28-2026

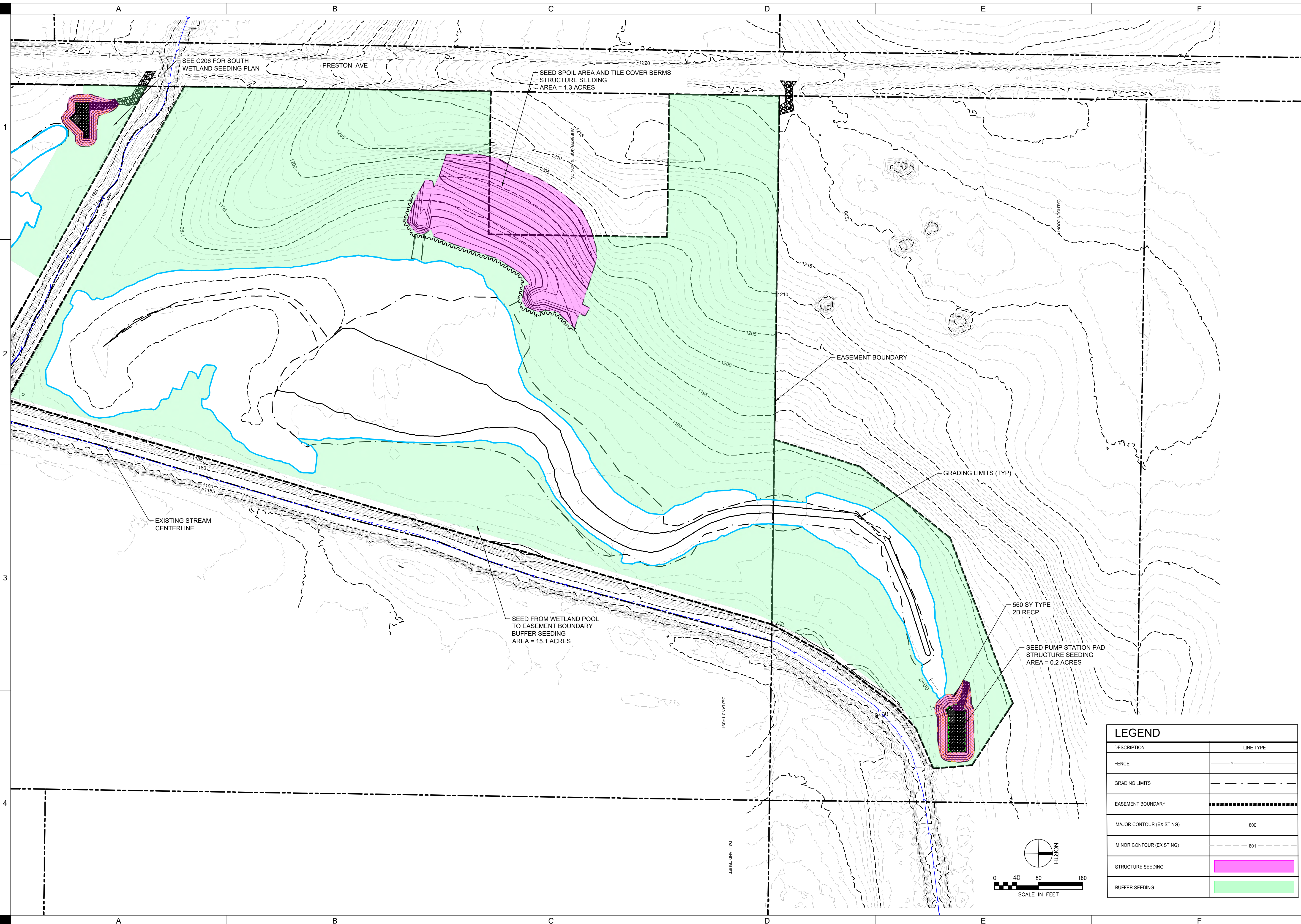
Printed or typed name: DANIEL JENSEN
 License Number: 25063
 My License Renewal Date is: DECEMBER 31, 2027
 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
 ALL 'C' SHEETS



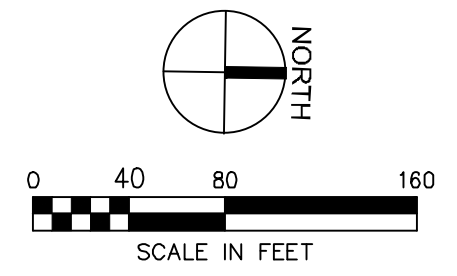
SHIVE-HATTERY ARCHITECTURE+ENGINEERING
 4125 WESTOWN PKWY, SUITE 100 WEST DES MOINES, IOWA 50266 515.223.8104 | SHIVE-HATTERY.COM
 CAL883229B PUMPED WETLANDS
 IDALS ROCKWELL CITY, IOWA
 04/28/2026
 BID DOCUMENTS
 PROJECT NO: 2142206150
 CLIENT NO: -
 C000

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LEGEND	
DESCRIPTION	LINE TYPE
FENCE	—○—○—○—
GRADING LIMITS	--- --
EASEMENT BOUNDARY	- - - - -
MAJOR CONTOUR (EXISTING)	--- 800 ---
MINOR CONTOUR (EXISTING)	--- 801 ---
STRUCTURE SEEDING	
BUFFER SEEDING	



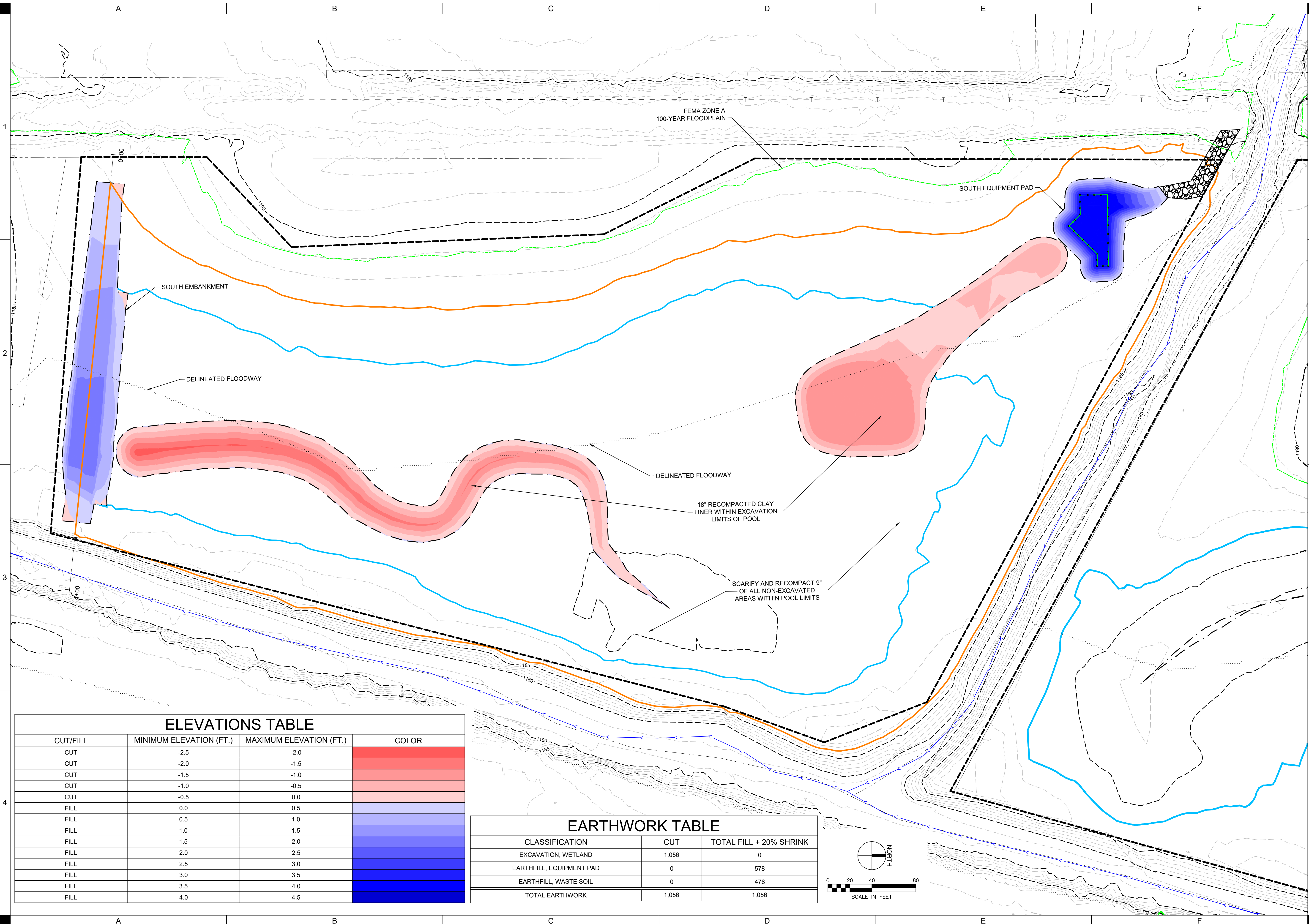
**CAL883229B PUMPED
 WETLANDS**

IDALS
 ROCKWELL CITY, IOWA

DRAWN: GHK
 APPROVED: DJJ
 ISSUED FOR: BID DOCUMENTS
 DATE: 04/28/2025
 PROJECT NO: 2142206150
 FIELD BOOK: --
 CLIENT NO: --

**NORTH SEEDING
 PLAN**

C106

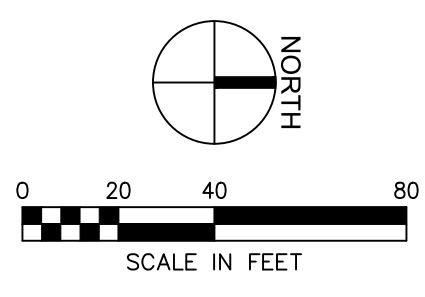


ELEVATIONS TABLE

CUT/FILL	MINIMUM ELEVATION (FT.)	MAXIMUM ELEVATION (FT.)	COLOR
CUT	-2.5	-2.0	Red
CUT	-2.0	-1.5	Light Red
CUT	-1.5	-1.0	Light Orange
CUT	-1.0	-0.5	Light Yellow
CUT	-0.5	0.0	Yellow
FILL	0.0	0.5	Light Green
FILL	0.5	1.0	Light Blue
FILL	1.0	1.5	Light Cyan
FILL	1.5	2.0	Light Blue
FILL	2.0	2.5	Blue
FILL	2.5	3.0	Dark Blue
FILL	3.0	3.5	Very Dark Blue
FILL	3.5	4.0	Dark Blue
FILL	4.0	4.5	Very Dark Blue

EARTHWORK TABLE

CLASSIFICATION	CUT	TOTAL FILL + 20% SHRINK
EXCAVATION, WETLAND	1,056	0
EARTHFILL, EQUIPMENT PAD	0	578
EARTHFILL, WASTE SOIL	0	478
TOTAL EARTHWORK	1,056	1,056



SHIVEHATTERY
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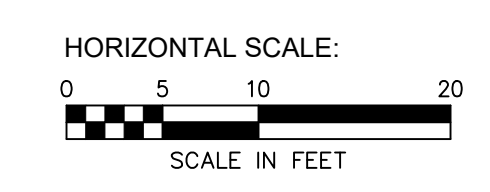
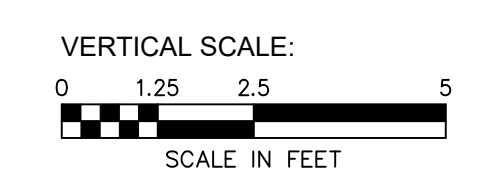
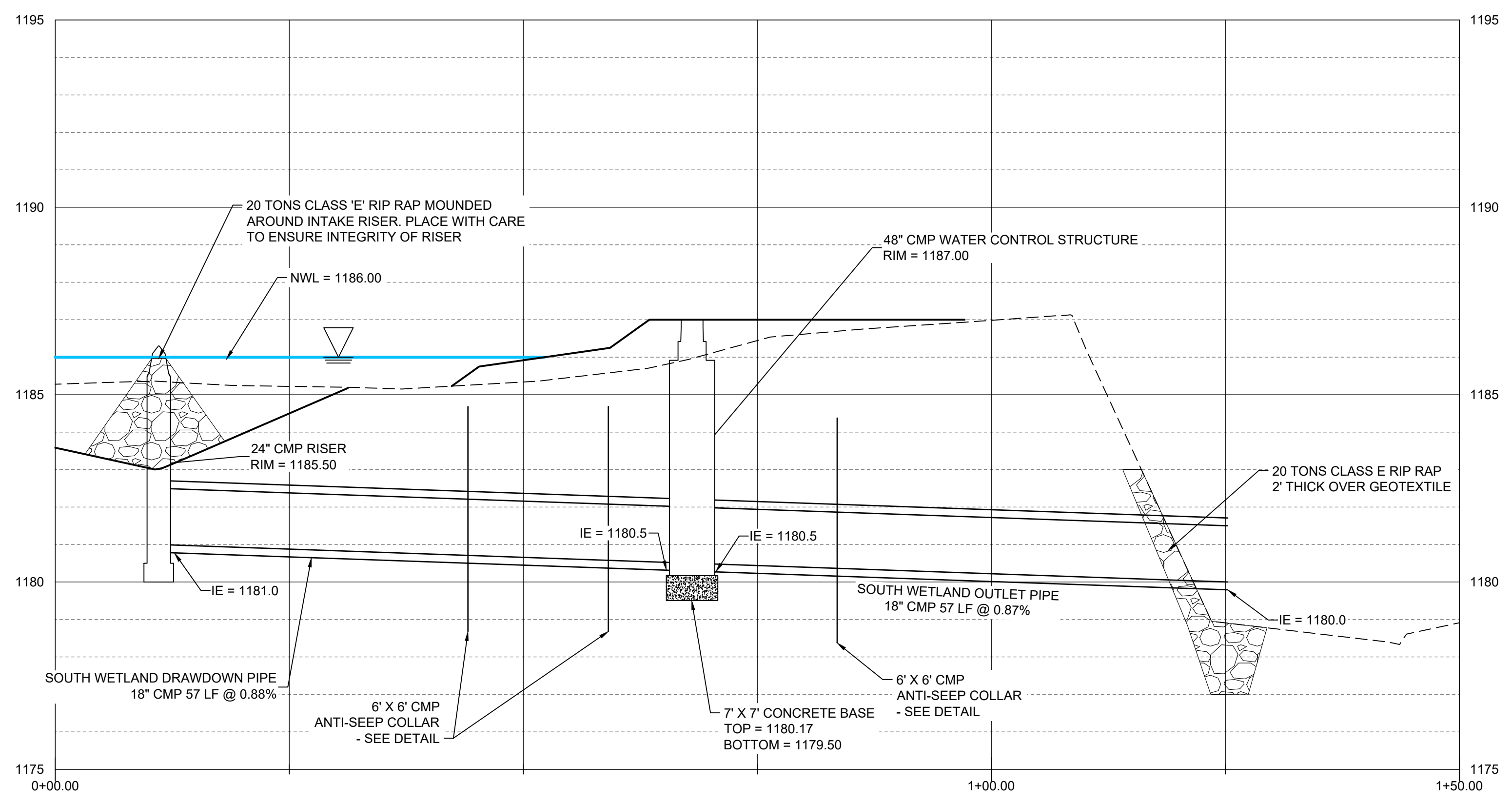
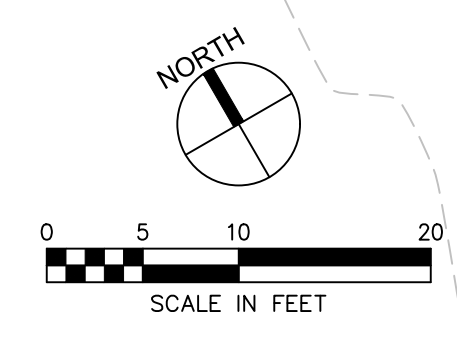
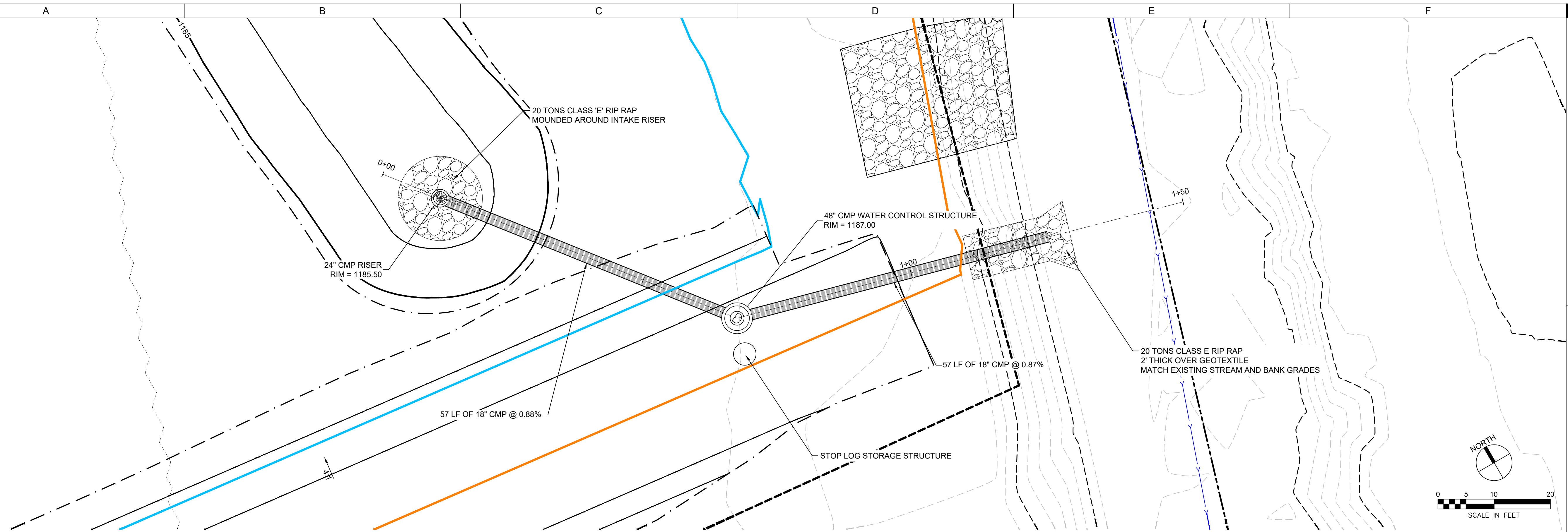
CAL883229B PUMPED WETLANDS

IDALS
ROCKWELL CITY, IOWA

SOUTH WETLAND CUT-FILL PLAN

DRAWN BY	GHK
APPROVED BY	DJ
ISSUED FOR	BID DOCUMENTS
ISSUE DATE	04/28/2026
PROJECT NUMBER	2142206150
FIELD BOOK	-

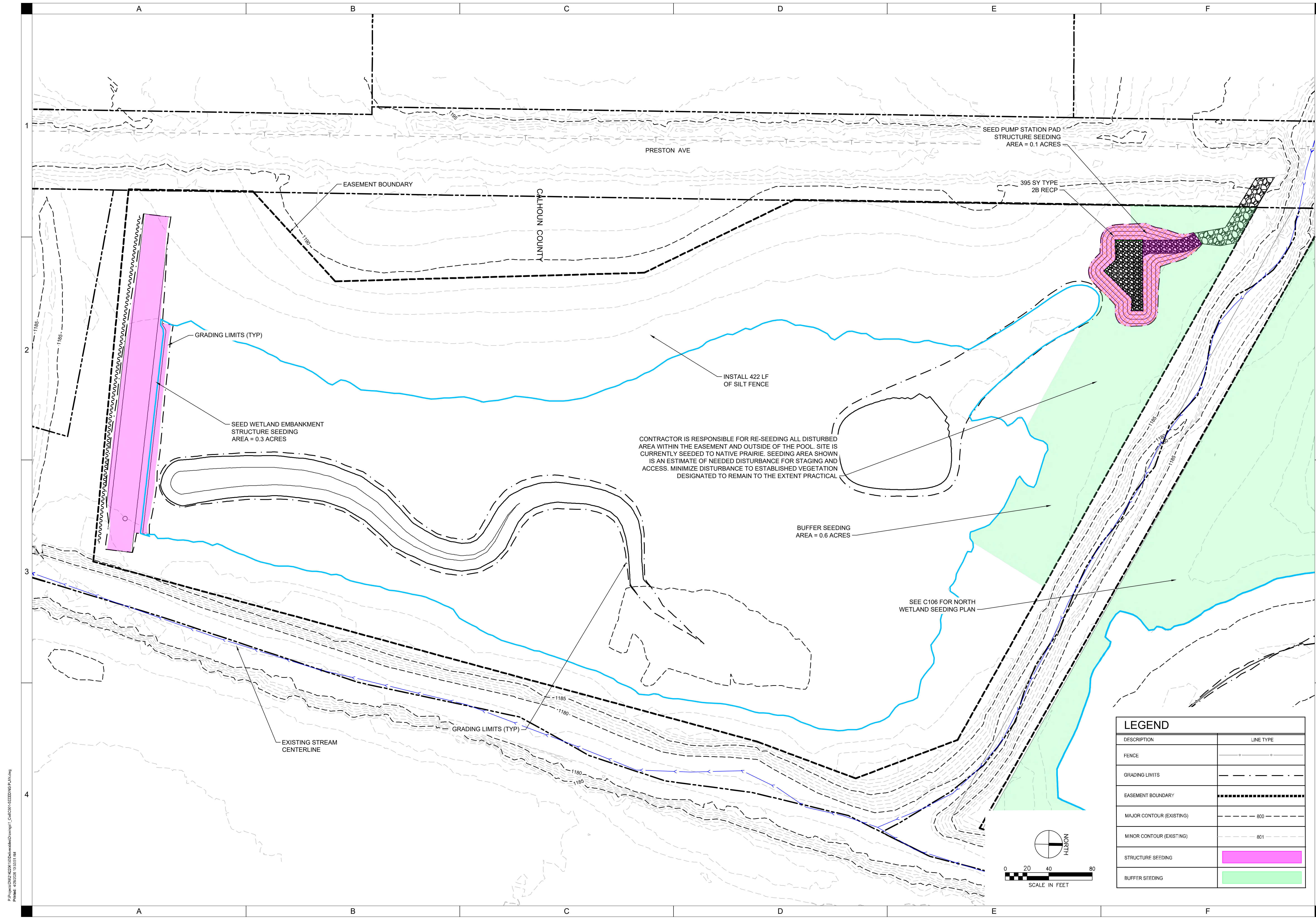
C202



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DRAWN:	GJK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
DATE:	04/28/2026
PROJECT NO:	2142206150
FIELD BOOK:	--
CLIENT NO.:	--



PRESTON AVE

CALHOUN COUNTY

SEED PUMP STATION PAD
STRUCTURE SEEDING
AREA = 0.1 ACRES

395 SY TYPE
2B RECP

GRADING LIMITS (TYP)

SEED WETLAND EMBANKMENT
STRUCTURE SEEDING
AREA = 0.3 ACRES

INSTALL 422 LF
OF SILT FENCE

CONTRACTOR IS RESPONSIBLE FOR RE-SEEDING ALL DISTURBED
AREA WITHIN THE EASEMENT AND OUTSIDE OF THE POOL. SITE IS
CURRENTLY SEEDED TO NATIVE PRAIRIE. SEEDING AREA SHOWN
IS AN ESTIMATE OF NEEDED DISTURBANCE FOR STAGING AND
ACCESS. MINIMIZE DISTURBANCE TO ESTABLISHED VEGETATION
DESIGNATED TO REMAIN TO THE EXTENT PRACTICAL

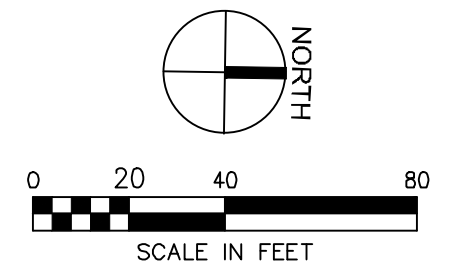
BUFFER SEEDING
AREA = 0.6 ACRES

SEE C106 FOR NORTH
WETLAND SEEDING PLAN

EXISTING STREAM
CENTERLINE

GRADING LIMITS (TYP)

LEGEND	
DESCRIPTION	LINE TYPE
FENCE	—○—○—○—
GRADING LIMITS	— — — — —
EASEMENT BOUNDARY	— — — — —
MAJOR CONTOUR (EXISTING)	— — — — — 800
MINOR CONTOUR (EXISTING)	— — — — — 801
STRUCTURE SEEDING	[Pink shaded area]
BUFFER SEEDING	[Light green shaded area]



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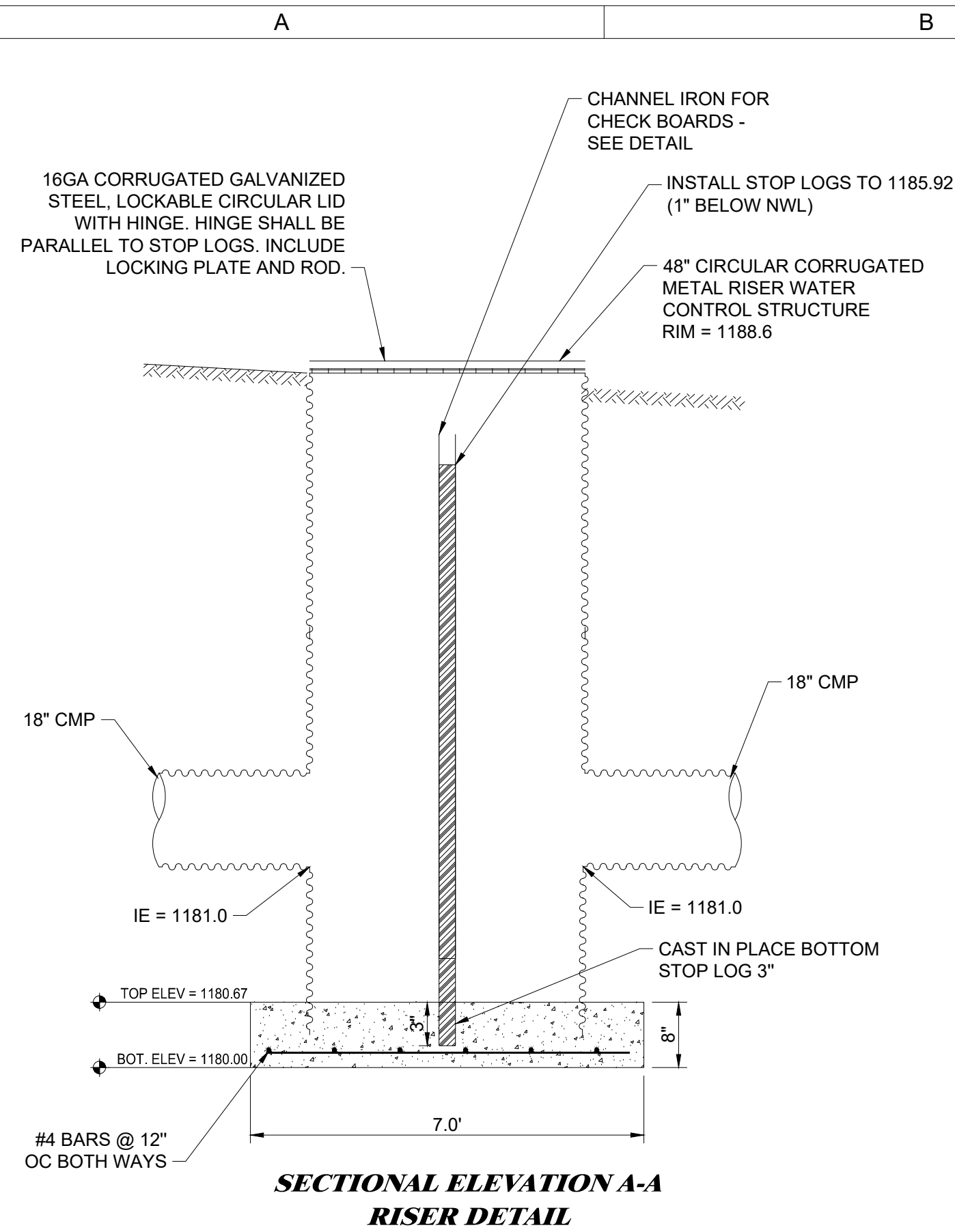
**CAL883229B PUMPED
 WETLANDS**

IDALS
 ROCKWELL CITY, IOWA

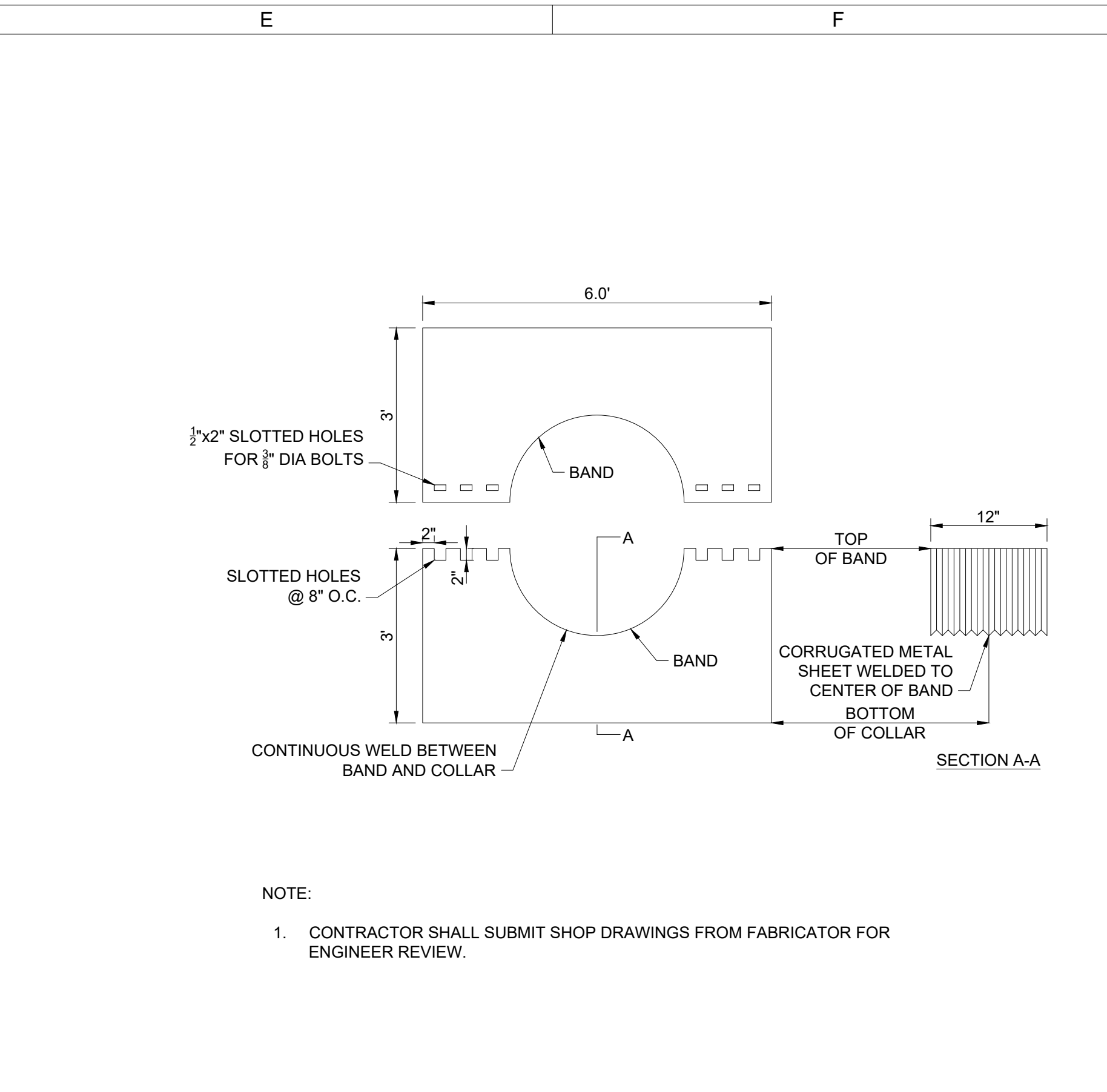
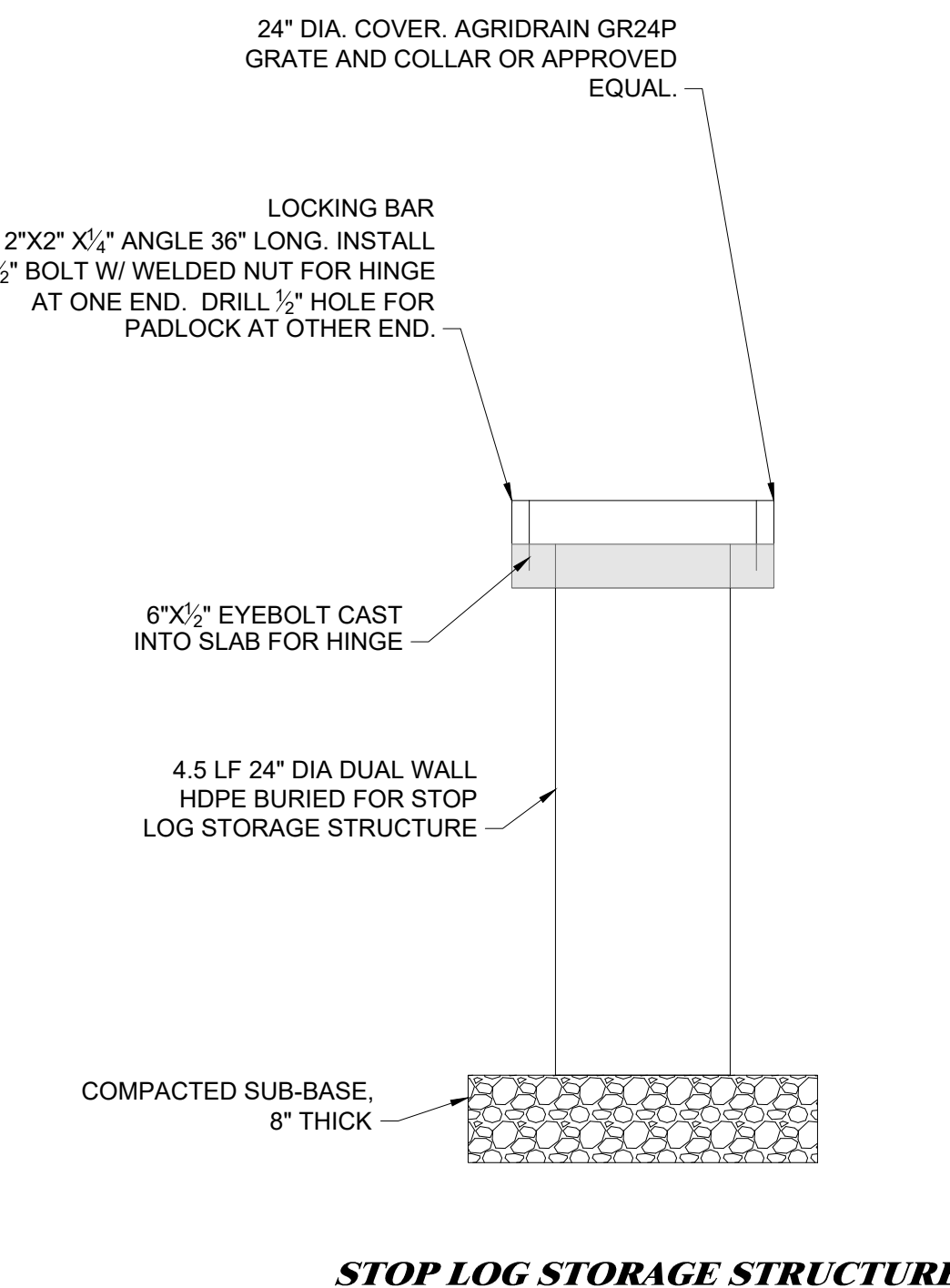
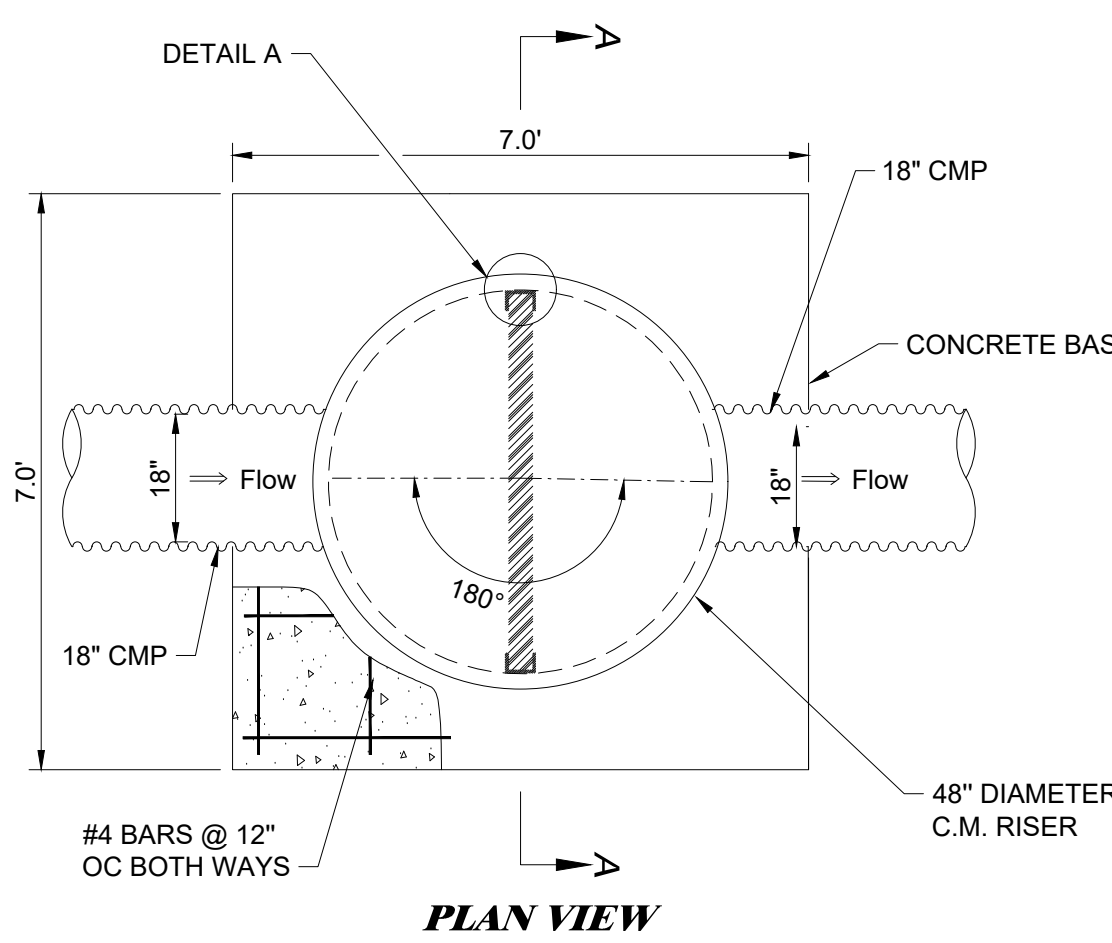
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APPROVED: DJJ
ISSUED FOR: BID DOCUMENTS
DATE: 04/28/2026
PROJECT NO: 2142206150
FIELD BOOK: --
CLIENT NO: --

**SOUTH SEEDING
 PLAN**

C206

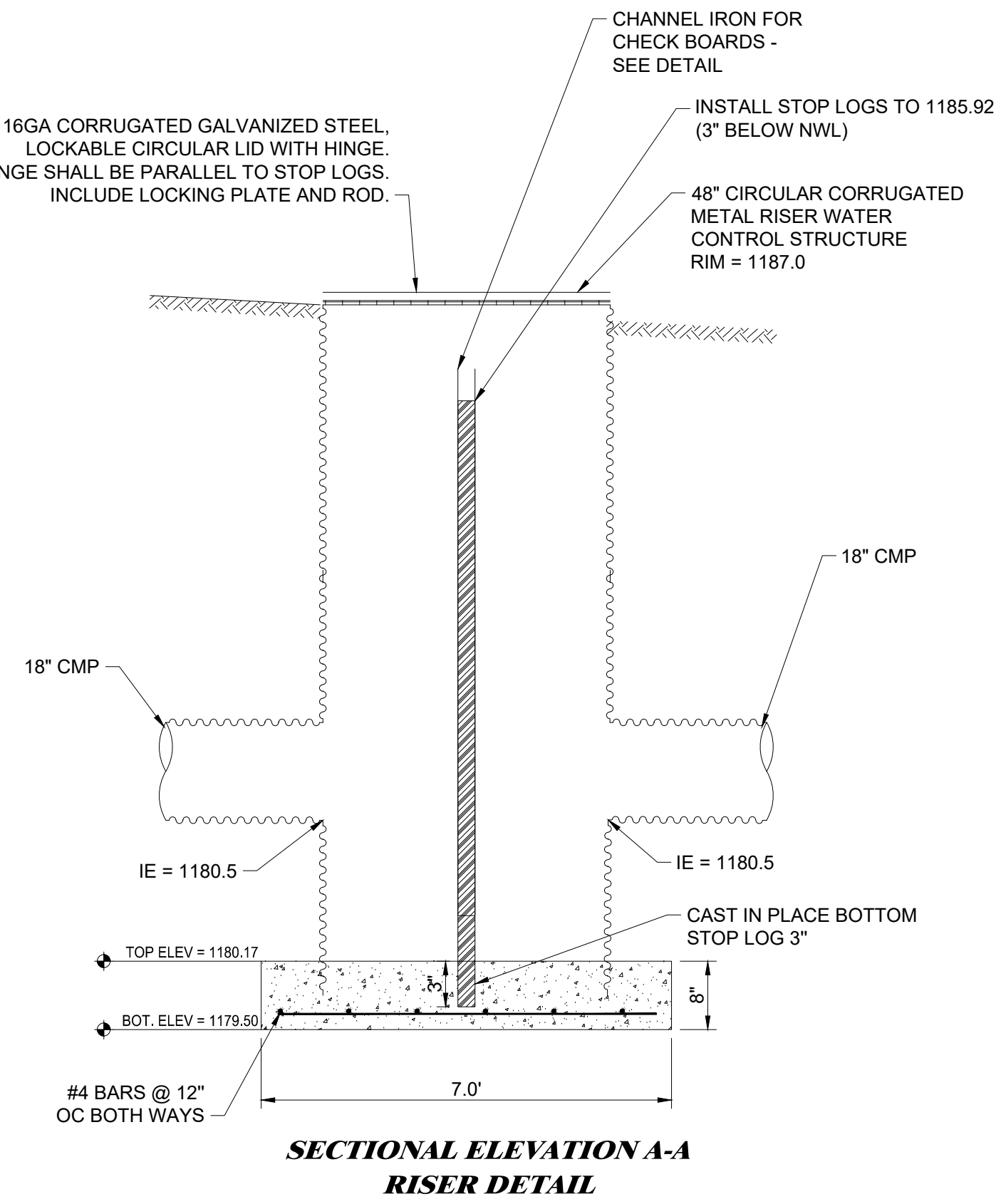


- NOTES:
- 1) PROVIDE STRUCTURE SHOP DRAWINGS FOR ENGINEERS REVIEW AND APPROVAL BEFORE FABRICATION OF WATER CONTROL STRUCTURE.
 - 2) WATER CONTROL STRUCTURE TO BE PRE FABRICATED CORRUGATED METAL RISER STRUCTURE WITH WATERTIGHT SEALS AT SECTION JOINTS AND PIPE PENETRATIONS.
 - 3) STOP LOG CHANNEL IS TO BE ANCHORED TO THE WALLS AND FLOOR PRIOR TO PLACING CONCRETE INVERT.
 - 4) POUR CONCRETE INVERT AFTER STOP LOG CHANNEL IS INSTALLED. CAST BOTTOM STOP LOG INTO PLACE WITH THREE 1/2" DIA "J BOLTS".
 - 5) PROVIDE MATCHING PADLOCKS FOR ALL LOCKING STRUCTURES. PROVIDE OWNER WITH FOUR KEYS.

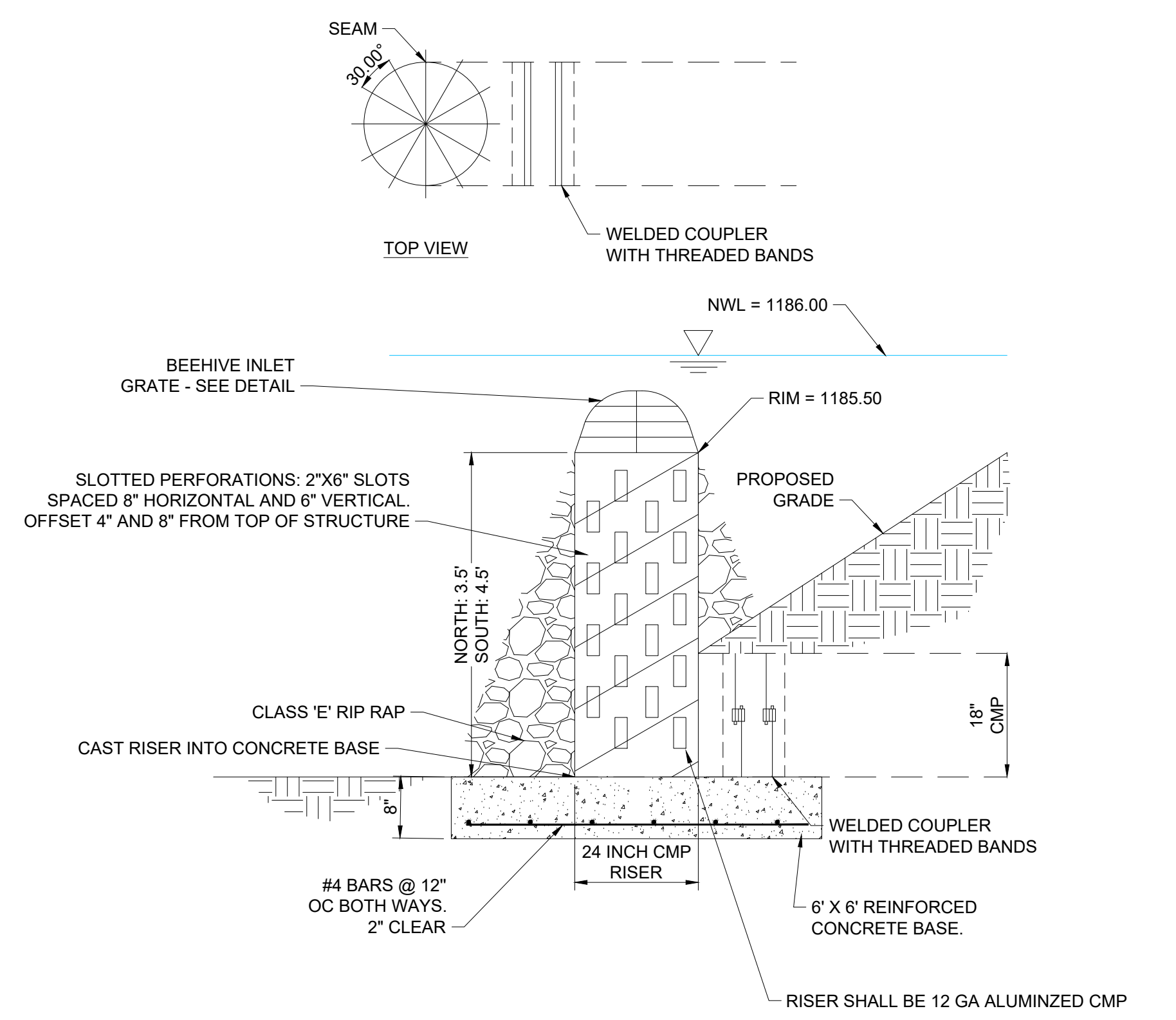
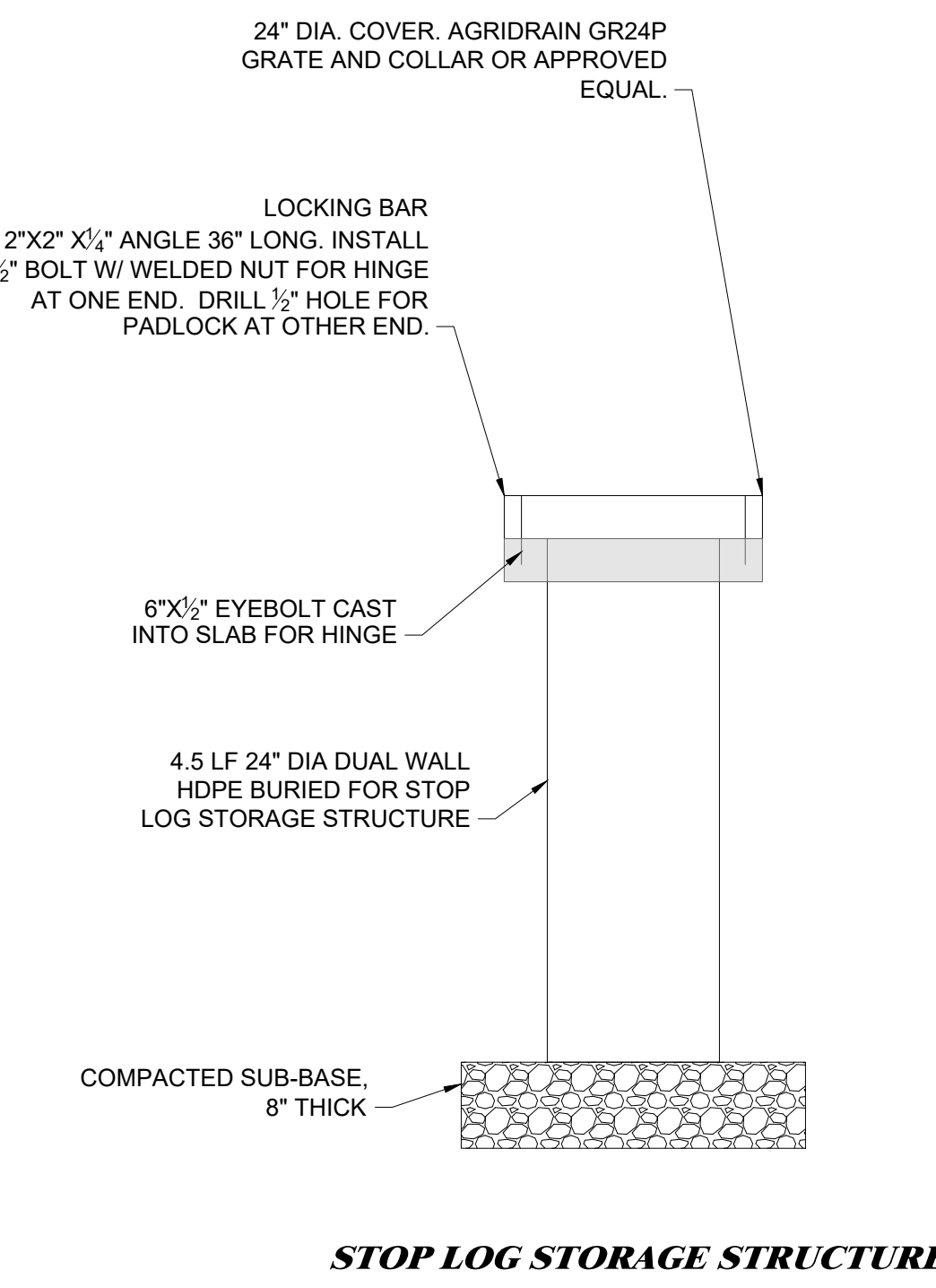
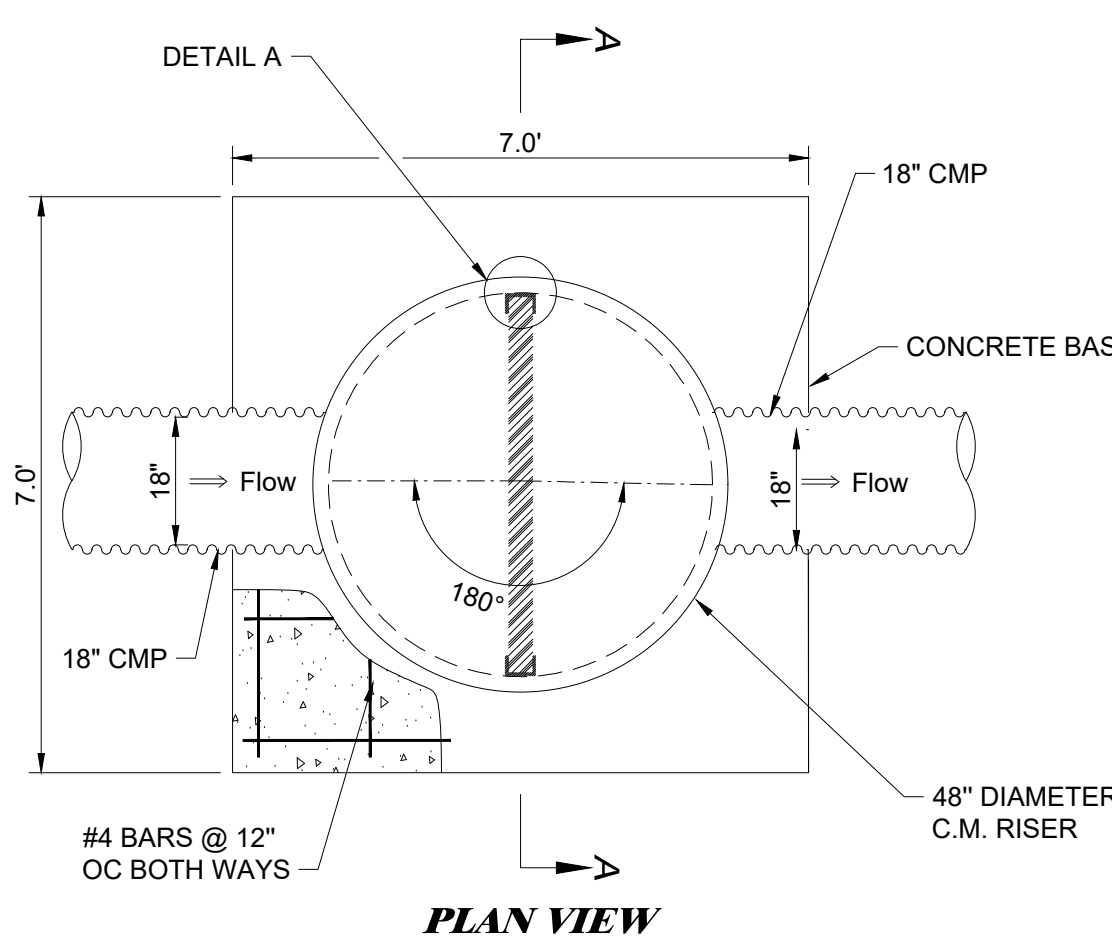


A2 NORTH WETLAND WATER CONTROL STRUCTURE AND APPURTENANCES
NOT TO SCALE

E2 CMP ANTI-SEEPAGE COLLAR
NOT TO SCALE



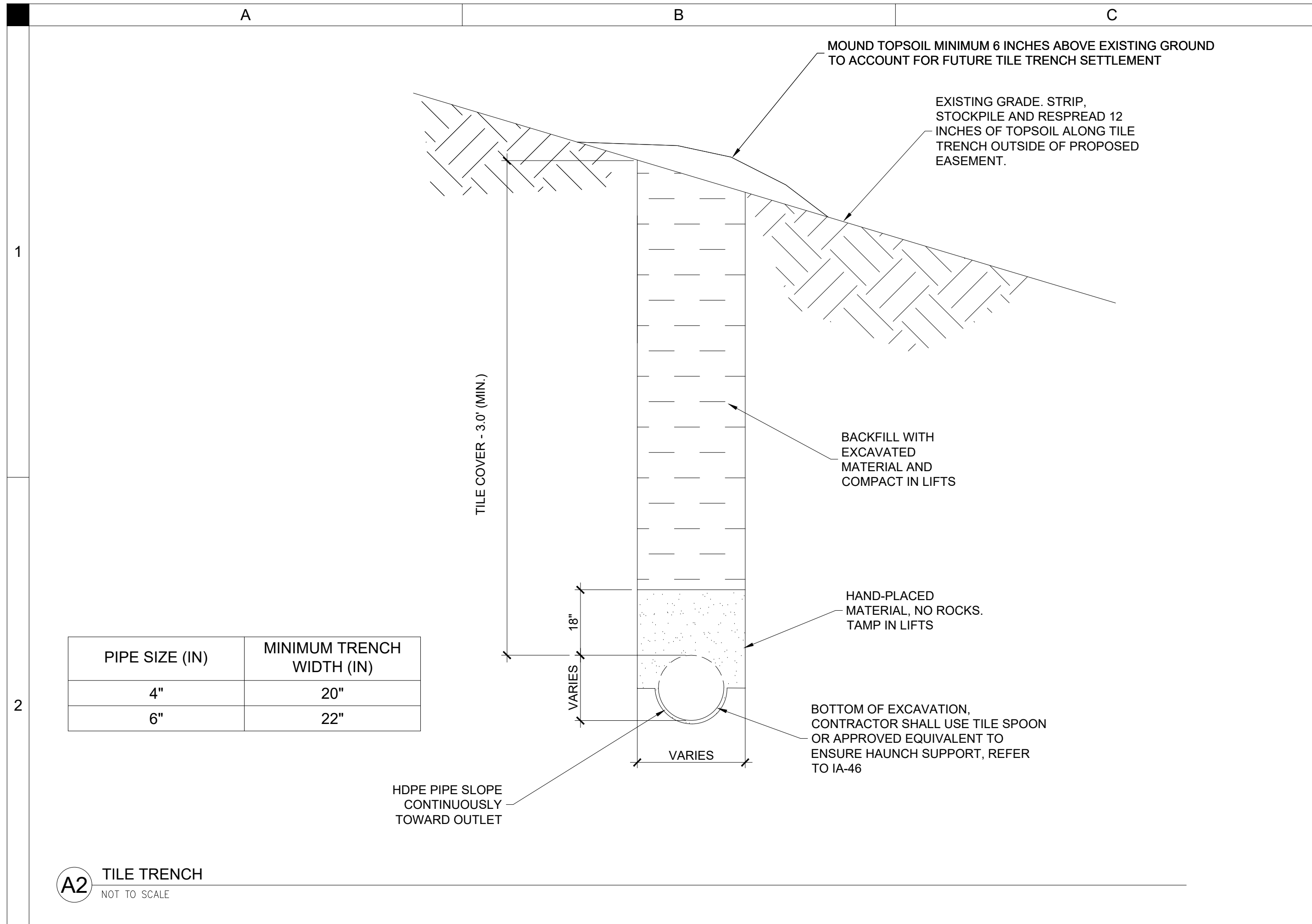
- NOTES:
- 1) PROVIDE STRUCTURE SHOP DRAWINGS FOR ENGINEERS REVIEW AND APPROVAL BEFORE FABRICATION OF WATER CONTROL STRUCTURE.
 - 2) WATER CONTROL STRUCTURE TO BE PRE FABRICATED CORRUGATED METAL RISER STRUCTURE WITH WATERTIGHT SEALS AT SECTION JOINTS AND PIPE PENETRATIONS.
 - 3) STOP LOG CHANNEL IS TO BE ANCHORED TO THE WALLS AND FLOOR PRIOR TO PLACING CONCRETE INVERT.
 - 4) POUR CONCRETE INVERT AFTER STOP LOG CHANNEL IS INSTALLED. CAST BOTTOM STOP LOG INTO PLACE WITH THREE 1/2" DIA "J BOLTS".
 - 5) PROVIDE MATCHING PADLOCKS FOR ALL LOCKING STRUCTURES. PROVIDE OWNER WITH FOUR KEYS.



A2 SOUTH WETLAND WATER CONTROL STRUCTURE AND APPURTENANCES
NOT TO SCALE

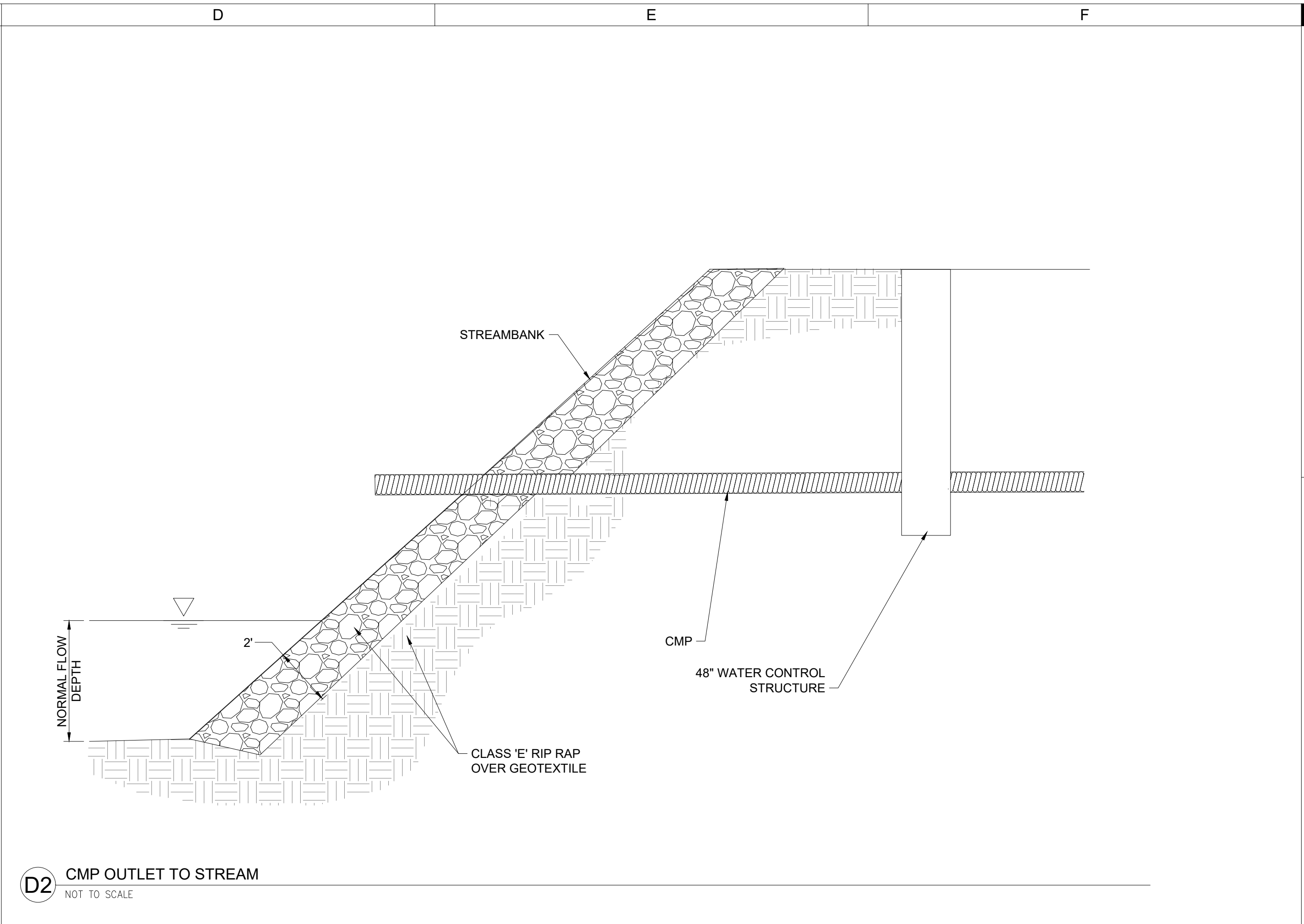
E4 CORRUGATED METAL RISER
NOT TO SCALE

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APPROVED:	DJ
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PROJECT NO:	2142206150
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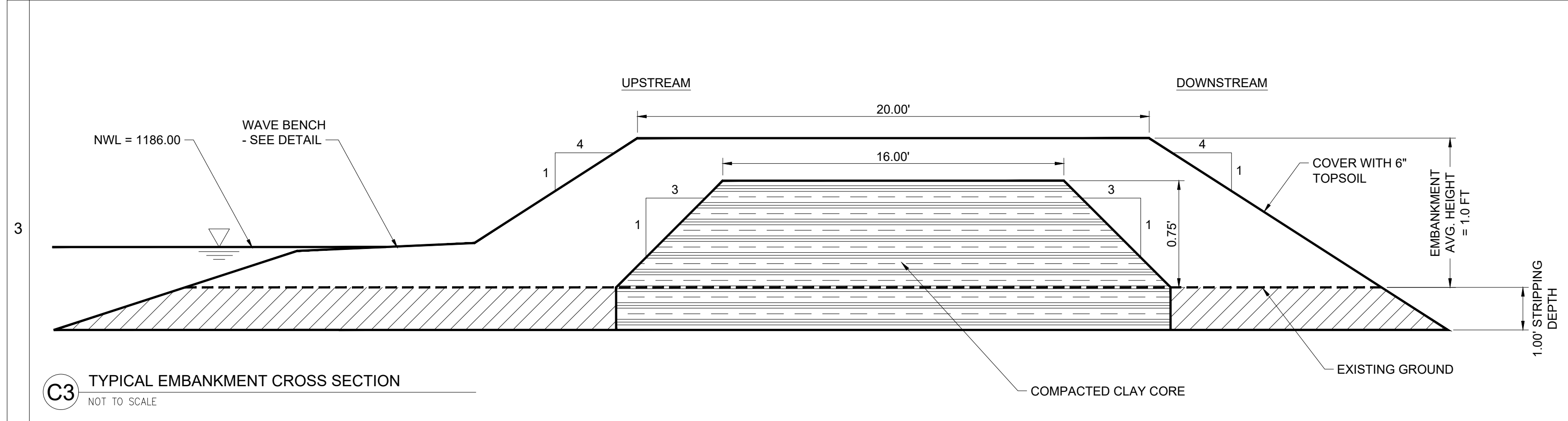


PIPE SIZE (IN)	MINIMUM TRENCH WIDTH (IN)
4"	20"
6"	22"

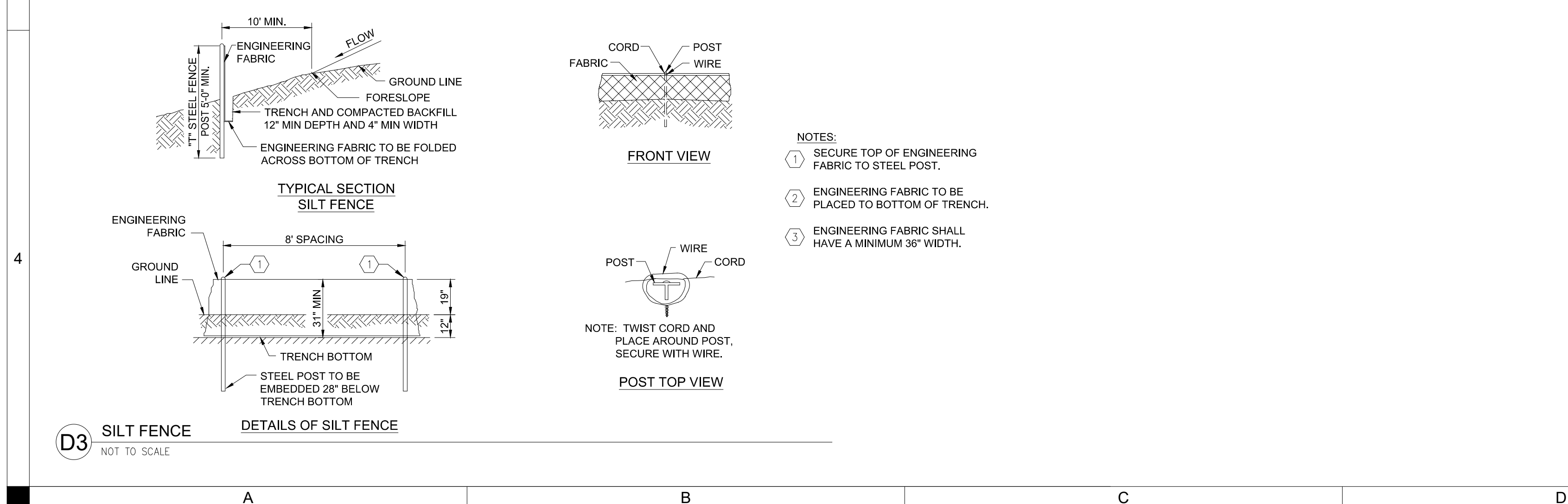
A2 TILE TRENCH
NOT TO SCALE



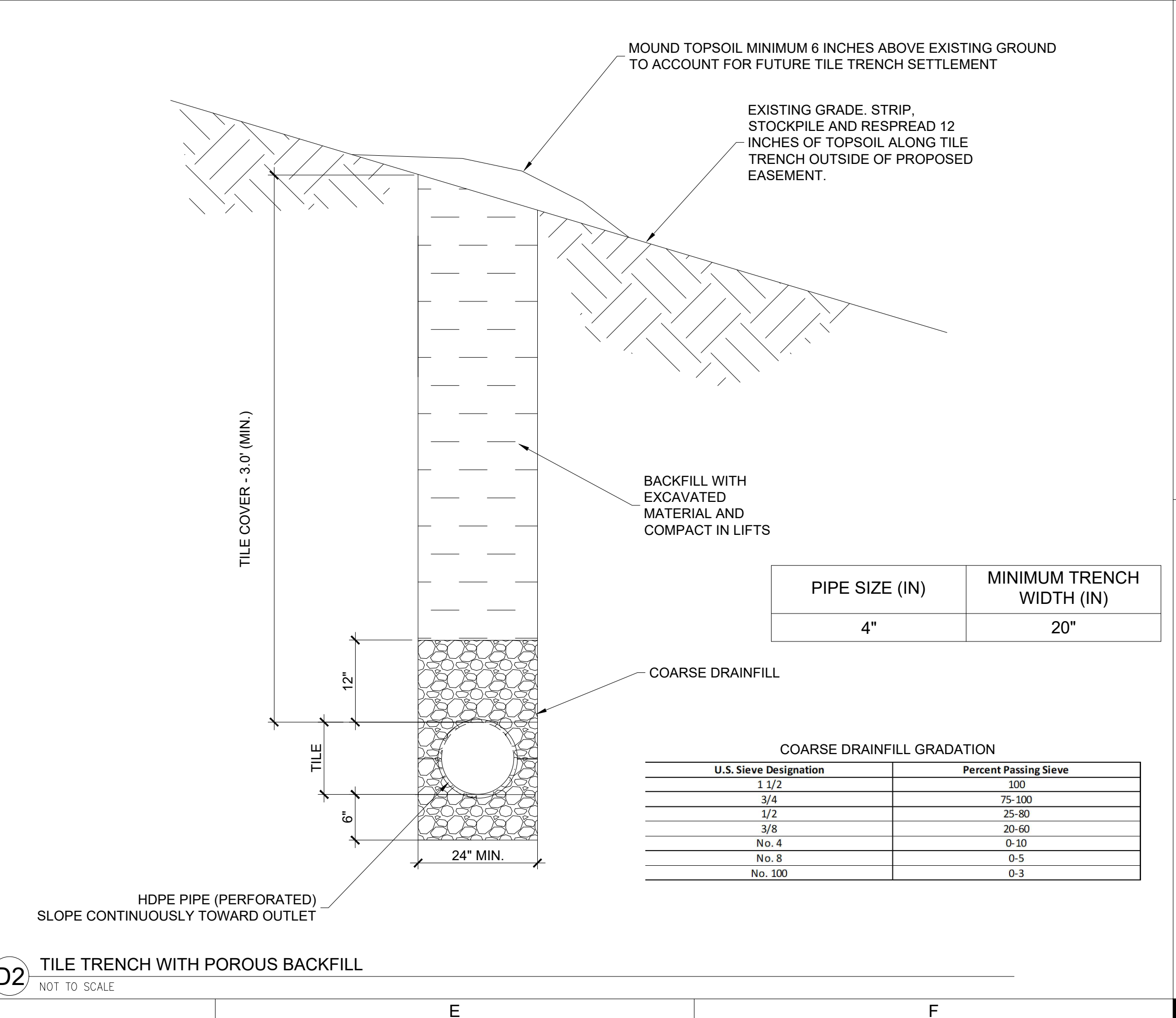
D2 CMP OUTLET TO STREAM
NOT TO SCALE



C3 TYPICAL EMBANKMENT CROSS SECTION
NOT TO SCALE



D3 SILT FENCE
NOT TO SCALE



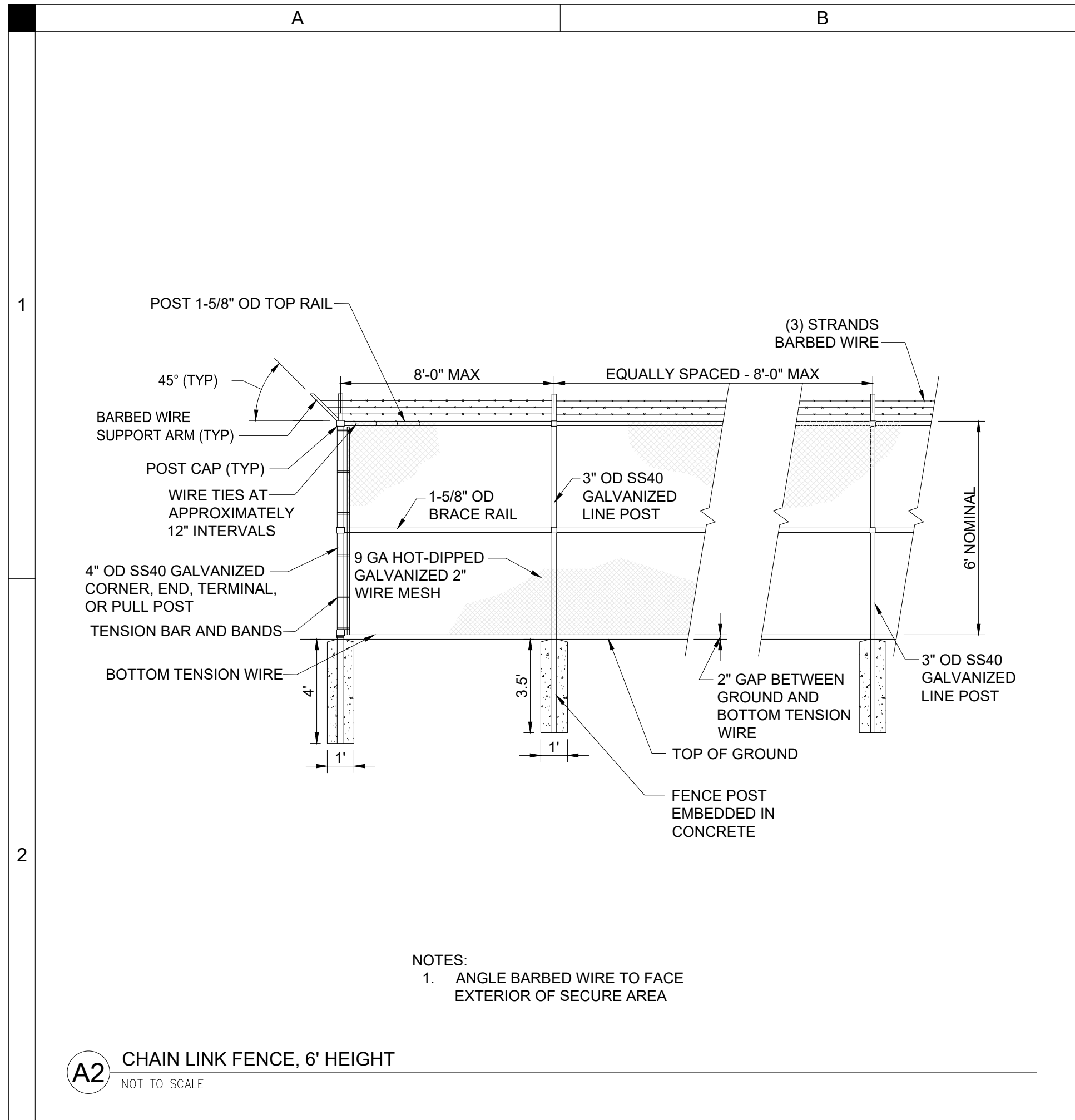
PIPE SIZE (IN)	MINIMUM TRENCH WIDTH (IN)
4"	20"

COARSE DRAINFILL GRADATION	
U.S. Sieve Designation	Percent Passing Sieve
1 1/2	100
3/4	75-100
1/2	25-80
3/8	20-60
No. 4	0-10
No. 8	0-5
No. 100	0-3

D2 TILE TRENCH WITH POROUS BACKFILL
NOT TO SCALE

DRAWN: GHK	APPROVED: DJJ
ISSUED FOR: BID DOCUMENTS	DATE: 04/28/2026
PROJECT NO: 2142206150	FIELD BOOK: -
CLIENT NO: -	

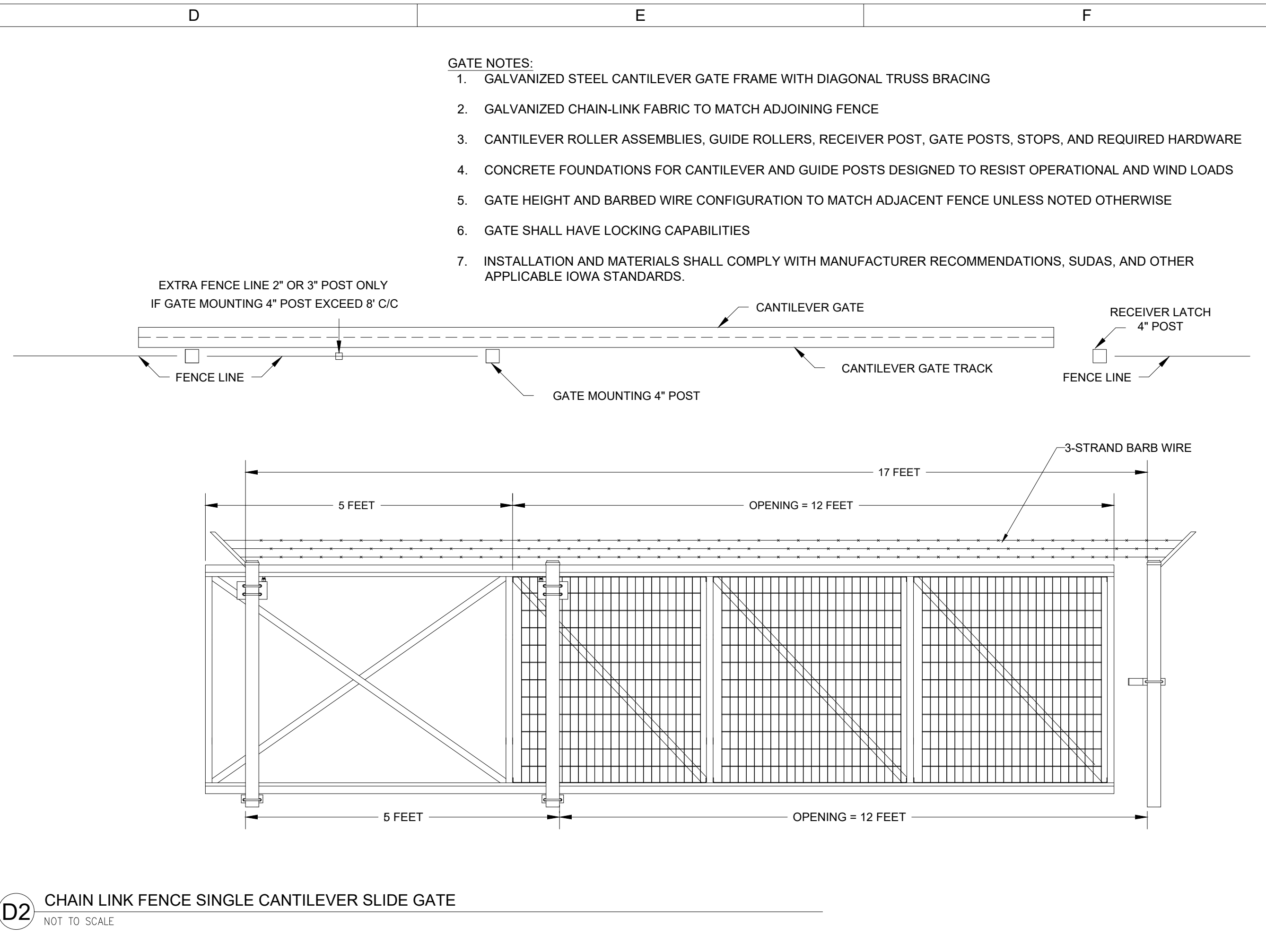
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NOTES:
 1. ANGLE BARBED WIRE TO FACE EXTERIOR OF SECURE AREA

A2 CHAIN LINK FENCE, 6' HEIGHT
 NOT TO SCALE

- FENCE NOTES:**
1. GALVANIZED STEEL CHAIN-LINK FABRIC (MINIMUM 9-GA TYPICAL), TOP RAIL, LINE POSTS, TERMINAL POSTS, FITTINGS, BRACES, TIES, AND APPURTENANCES
 2. THREE-STRAND BARBED WIRE MOUNTED ON OUTWARD-FACING EXTENSION ARMS
 3. POSTS SET PLUMB IN CAST-IN-PLACE CONCRETE FOOTINGS TO REQUIRED DEPTH PER MANUFACTURER AND LOCAL FROST REQUIREMENTS
 4. ALL STEEL COMPONENTS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION
 5. INSTALLATION AND MATERIALS SHALL COMPLY WITH MANUFACTURER RECOMMENDATIONS, SUDAS, AND OTHER APPLICABLE IOWA STANDARDS.



- GATE NOTES:**
1. GALVANIZED STEEL CANTILEVER GATE FRAME WITH DIAGONAL TRUSS BRACING
 2. GALVANIZED CHAIN-LINK FABRIC TO MATCH ADJOINING FENCE
 3. CANTILEVER ROLLER ASSEMBLIES, GUIDE ROLLERS, RECEIVER POST, GATE POSTS, STOPS, AND REQUIRED HARDWARE
 4. CONCRETE FOUNDATIONS FOR CANTILEVER AND GUIDE POSTS DESIGNED TO RESIST OPERATIONAL AND WIND LOADS
 5. GATE HEIGHT AND BARBED WIRE CONFIGURATION TO MATCH ADJACENT FENCE UNLESS NOTED OTHERWISE
 6. GATE SHALL HAVE LOCKING CAPABILITIES
 7. INSTALLATION AND MATERIALS SHALL COMPLY WITH MANUFACTURER RECOMMENDATIONS, SUDAS, AND OTHER APPLICABLE IOWA STANDARDS.

D2 CHAIN LINK FENCE SINGLE CANTILEVER SLIDE GATE
 NOT TO SCALE

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 4125 WESTOWN PKWY, SUITE 100
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CAL883229B PUMPED WETLANDS
 IDALS
 ROCKWELL CITY, IOWA

DRAWN:	GHK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
DATE:	04/28/2026
PROJECT NO:	2142206150
FIELD BOOK:	—
CLIENT NO.:	—

CONSTRUCTION DETAILS
C304

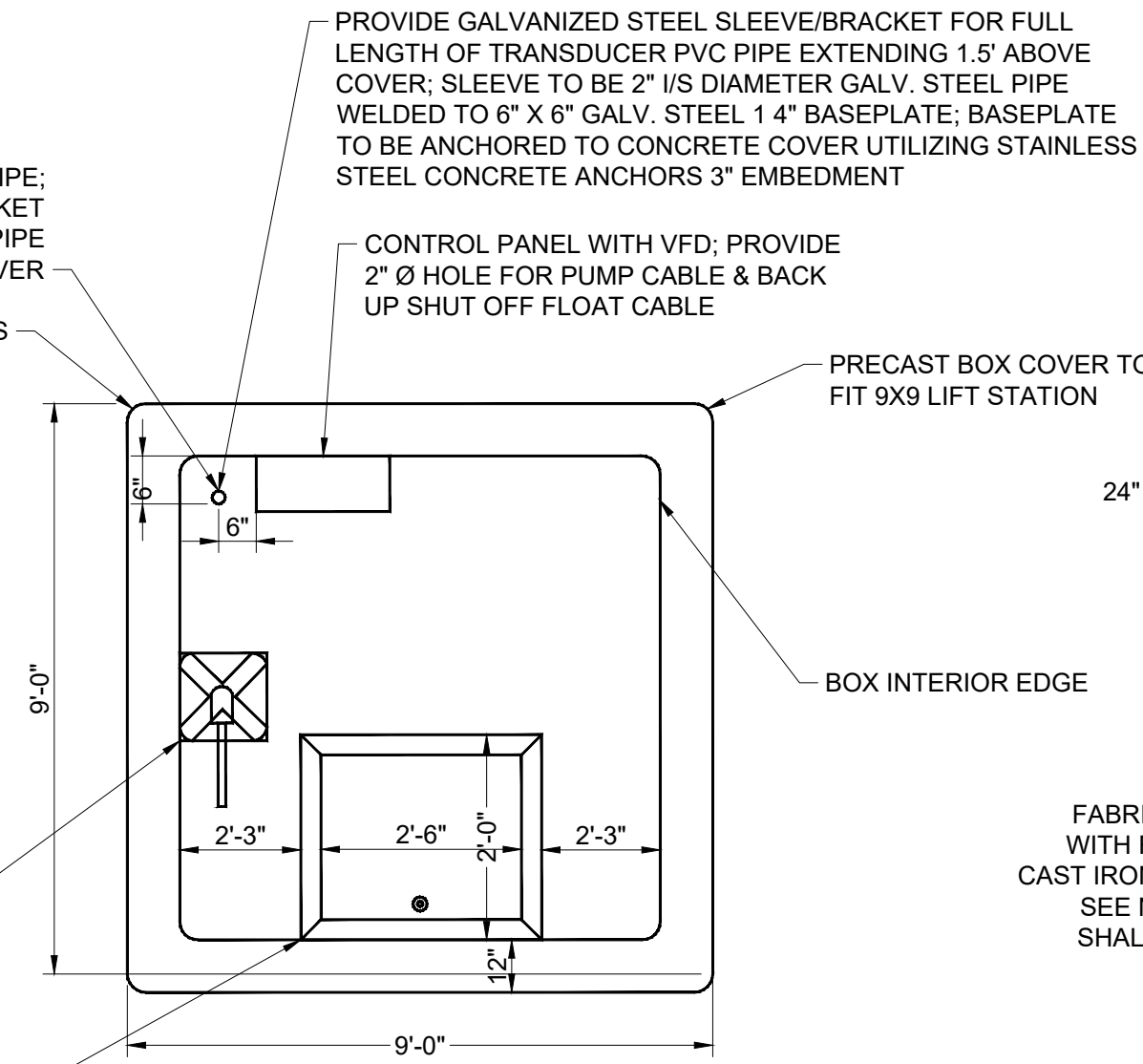
NOTE:
CONTRACTOR SHALL SEAL ALL HOLES THROUGH TOP OF LIFT STATION COVER

PROVIDE 2" Ø HOLE FOR TRANSDUCER PIPE; PROVIDE GALVANIZED STEEL SLEEVE/BACKET FOR FULL LENGTH OF TRANSDUCER PVC PIPE EXTENDING ABOVE COVER

PROVIDE 1" CHAMBER AT EDGES

CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC CONE GUARD.

HALLIDAY PRODUCTS ALUMINUM ACCESS DOOR SR12430 24" X 30" OPENING WITH SERIES X SAFETY GRATE (OR APPROVED EQUAL)



PLAN DETAIL - LIFT STATION COVER

SUBMERSIBLE AXIAL-FLOW PUMP WITH DESIGN PUMPING RATE OF 0.5 TO 1.6 CFS

BACK UP SHUT OFF FLOAT POLE; EXACT LOCATION TO BE DETERMINED BY PUMP MANUFACTURER

8" Ø PVC INSIDE LIFT STATION AND 2' OUTSIDE OF LIFT STATION

8" PVC OUTLET TO WETLAND

24" SDR 26 PVC FROM CREEK

FRESNO XX" Ø 7600 FLAT-BACK FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL STEM, CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC GUARD.

PROVIDE ACCESS STEPS PER SUDAS 6010

TRANSDUCER

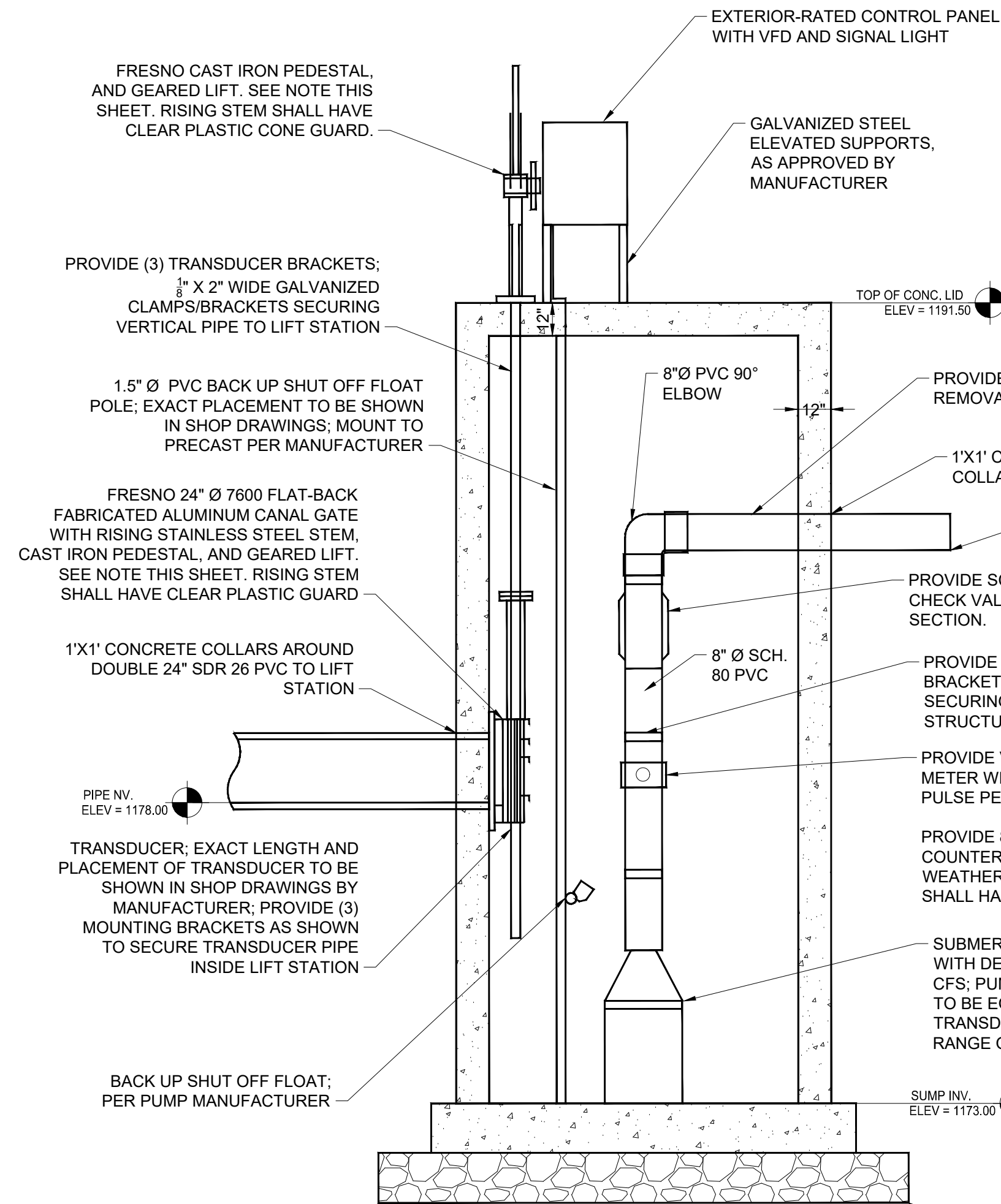
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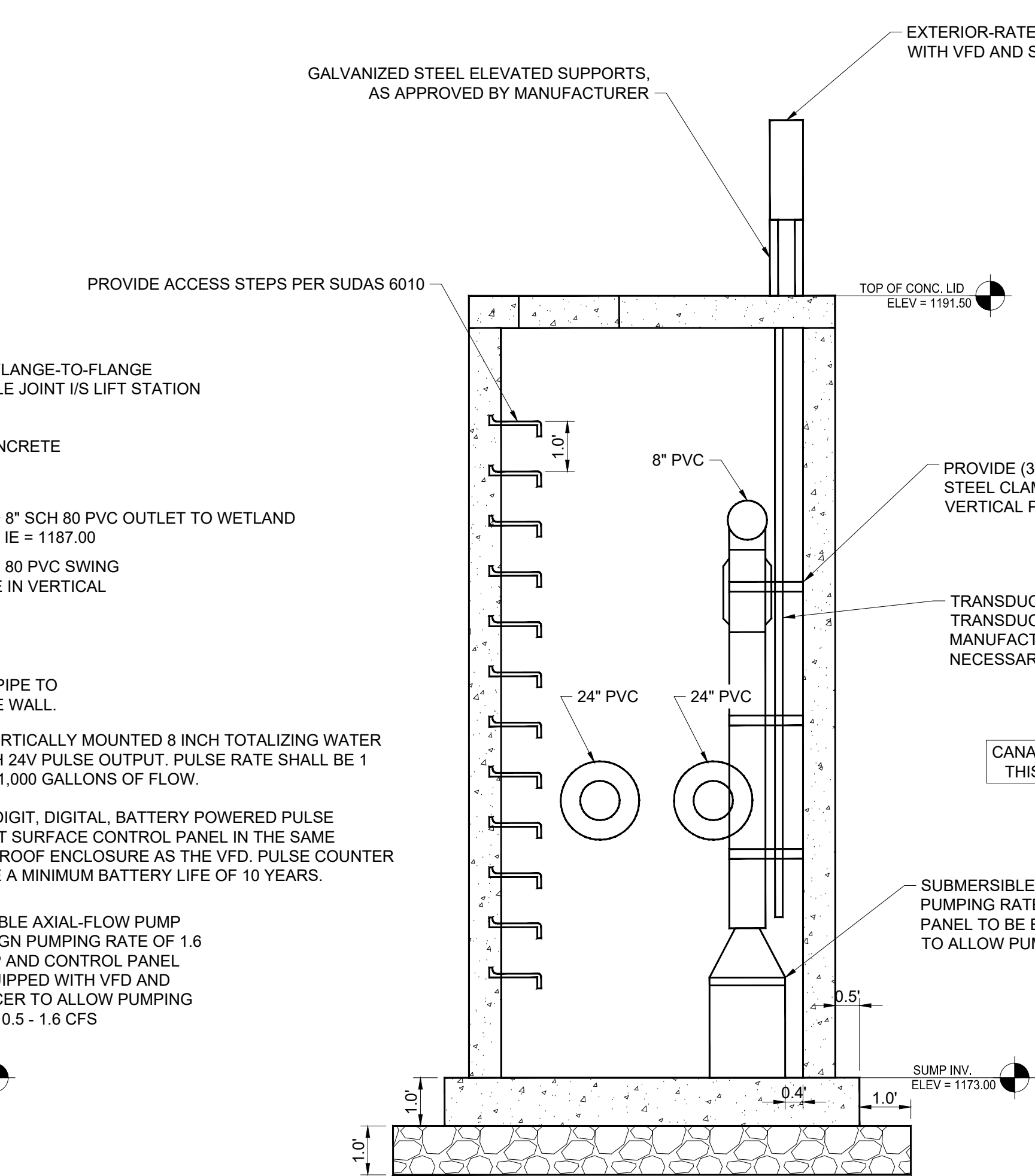
PLAN DETAIL - LIFT STATION

NOTES:

1. THE CALCULATED TOTAL DYNAMIC HEAD OF PUMP SYSTEM IS 14.5 FEET.
2. PUMPING SYSTEM SHALL HAVE A DESIGN PUMPING RATE OF 1.6 CFS (APPROXIMATELY 750 GPM) AT THE DESIGN TOTAL DYNAMIC HEAD. THE PUMP AND CONTROL PANEL SHALL BE PROVIDED WITH A VARIABLE SPEED DRIVE (VFD) THAT ALLOWS THE PUMP TO AUTOMATICALLY PUMP AT A RANGE OF 0.5 - 1.6 CFS, BASED ON AVAILABLE WATER FLOW FROM THE CREEK INTAKES.
3. PUMP SYSTEM SHALL BE PROVIDED WITH TIMER OR OTHER SAFETY FEATURE TO CONTROL AMOUNT OF PUMP ON/OFF CYCLES PER HOUR, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE A TOTALIZING WATER METER ON THE PUMP DISCHARGE.
5. A COMPLETE BACK UP SHUT OFF FLOAT ASSEMBLY SHALL BE PROVIDED.
6. A CHECK VALVE SHALL BE PROVIDED INSIDE THE LIFT STATION IN THE VERTICAL SECTION OF PIPE, AS WELL AS A FLANGE-TO-FLANGE (REMOVABLE) JOINT. A WEEP HOLE SHALL BE PROVIDED INSIDE THE CHECK VALVE TO PREVENT WATER STANDING/FREEZING INSIDE PIPE.
7. PUMPING SYSTEM AND VFD SHALL BE EQUIPPED WITH LED EXTERIOR 5 COLOR LIGHT SIGNAL KIT.
8. SHOP DRAWINGS SHALL BE PROVIDED BY PUMP MANUFACTURER DISPLAYING ALL PERTINENT DETAILS TO PROVIDE A COMPLETE PUMPING SYSTEM. PUMP SYSTEM CONCEPTUAL DETAILS WERE BASED ON CARRY PUMPS - CARRY CP08 SERIES PUMP (5.0 HP, SINGLE-PHASE, 8.5" IMPELLER), WITH EXTERIOR-GRADE CONTROL PANEL AND VFD WITH SIGNAL LIGHT. CONTRACTOR MAY UTILIZE OTHER PUMPING SYSTEM THAT MEETS THE PUMP SYSTEM DESIGN INTENT, AS APPROVED BY THE ENGINEER.
9. A FACTORY PUMP TEST SHALL BE REQUIRED. THE PUMP SHALL BE TESTED AND PAPERWORK TURNED INTO THE ENGINEER PRIOR TO SHIPPING TO SITE.
10. CONTRACTOR SHALL PROVIDE A REPRESENTATIVE FROM THE PUMP MANUFACTURER (PRIOR TO PROJECT COMPLETION) TO ASSIST IN PUMP STARTUP TO ENSURE PUMPING SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND DESIGN INTENT.
11. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PRECAST CONCRETE LIFT STATION SEALED BY A LICENSED ENGINEER. KNOCKOUTS FOR 24"Ø PIPE SHALL BE SLIGHTLY OVERSIZED TO PROVIDE TOLERANCE FOR DIFFERENCES IN FIELD CONDITIONS.
12. CONTRACTOR SHALL VERIFY HOLES FOR THE TRANSDUCER, FLOAT, POWER AND ANY OTHER NECESSARY EQUIPMENT WITH THE PUMP MANUFACTURER PRIOR TO PRECAST CASTING. ANY HOLES NOT PROVIDED IN PRECAST WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
13. FRESNO FLAT-BACK 7600 FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL OR APPROVED EQUAL SHALL BE 24"Ø. CONTRACTOR/SUPPLIER MAY HAVE TO FABRICATE AN EXTENSION TO GATE FRAME TO MOVE ANCHOR BOLT HOLES AWAY FROM CIRCULAR KNOCK-OUT IN LIFT STATION. IT WILL BE UP TO THE CONTRACTOR TO VERIFY THAT THE CANAL GATE WILL BOLT TO THE INSIDE OF THE LIFT STATION WALLS LEAVING ADEQUATE COVERAGE BETWEEN ANCHOR BOLTS AND CIRCULAR KNOCKOUT. ANY ADDITIONAL WORK WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CORE-DRILL HOLE IN THE COVER SLAB FOR RISING STEM TO PROTRUDE THROUGH. HOLE SHALL BE AS SMALL AS POSSIBLE TO HAVE LESS FLEX IN VERTICAL SHAFT. SUPPORTS SHALL BE USED *AS DETERMINED BY SUPPLIER/CONTRACTOR) ALONG INSIDE FACE OF LIFT STATION TO SECURE VERTICAL RISING STEM. THE PEDESTAL SHALL BE MOUNTED TO ALLOW HAND TO ROTATE FREE FROM OBSTRUCTION. CLEAR PLASTIC CONE GUARD SHALL BE INCLUDED IN GEAR LIFT. COST OF GATE, FRAME, STAINLESS STEEL RISING STEM, OPERATOR, PEDESTAL AND COMPLETE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR THE LIFT STATION BID ITEMS.



SECTION A-A DETAIL



SECTION B-B DETAIL

12" DEPTH OF COMPACTED AGGREGATE BEDDING BENEATH LIFT STATION; CONTRACTOR SHALL CREATE STABLE BASE PRIOR TO SETTING LIFT STATION



DRAWN:	GHK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
DATE:	1/10/2025
PROJECT NO:	2142206150
FIELD BOOK:	
CLIENT NO.:	

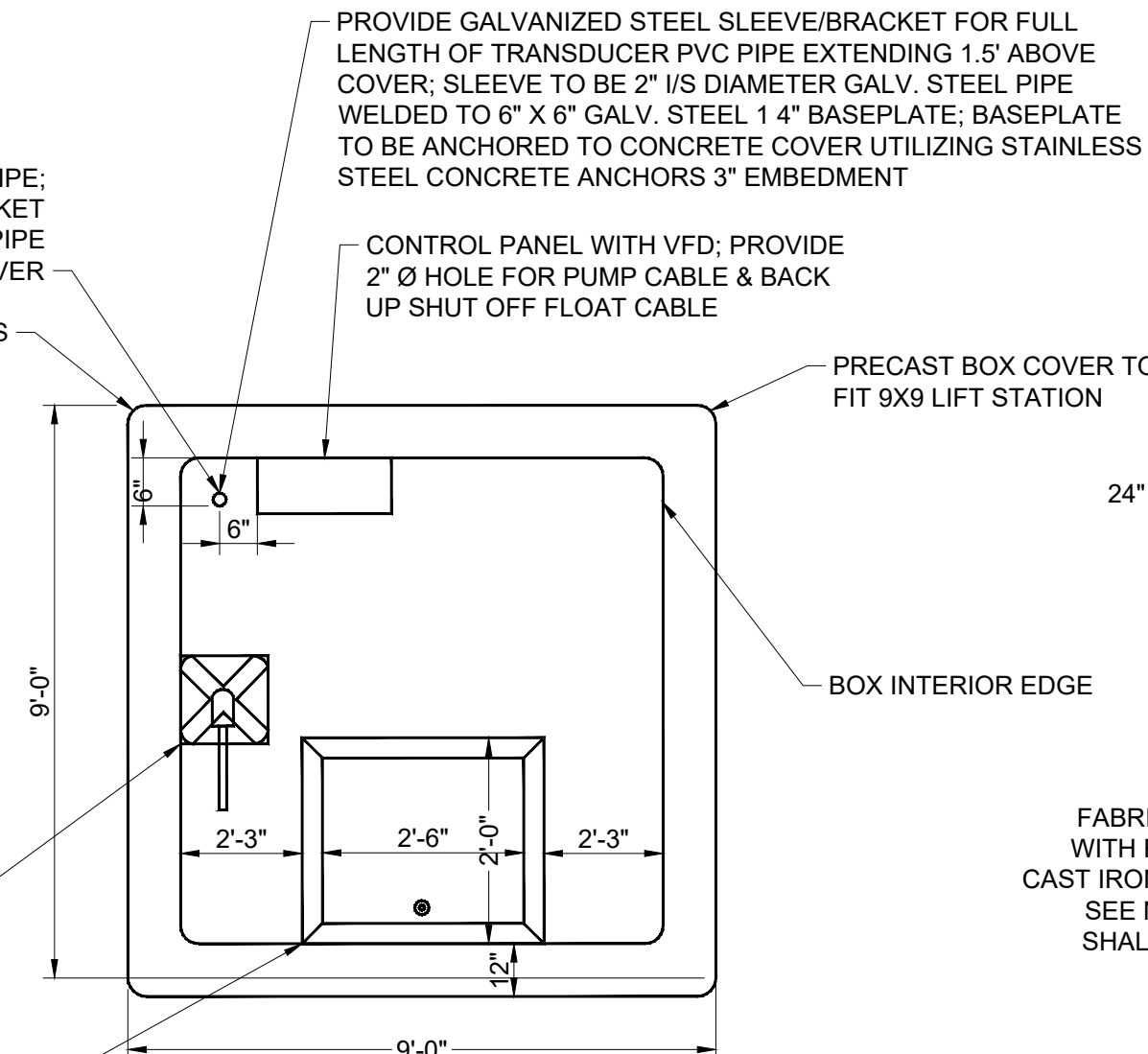
NOTE:
CONTRACTOR SHALL SEAL ALL HOLES THROUGH TOP OF LIFT STATION COVER

PROVIDE 2" Ø HOLE FOR TRANSDUCER PIPE; PROVIDE GALVANIZED STEEL SLEEVE/BACKET FOR FULL LENGTH OF TRANSDUCER PVC PIPE EXTENDING ABOVE COVER

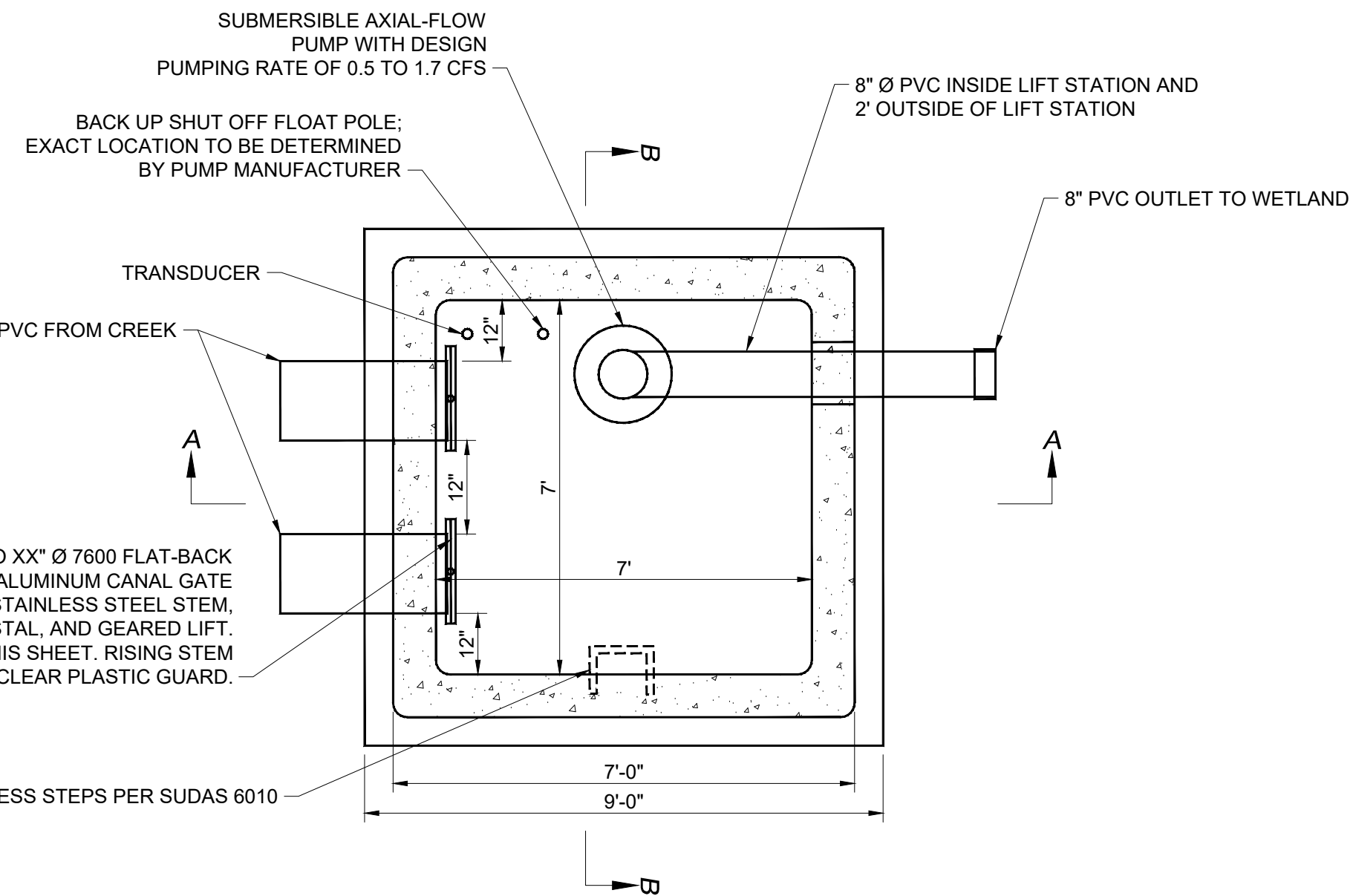
PROVIDE 1" CHAMBER AT EDGES

CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC CONE GUARD.

HALLIDAY PRODUCTS ALUMINUM ACCESS DOOR SR12430 24" X 30" OPENING WITH SERIES X SAFETY GRATE (OR APPROVED EQUAL)



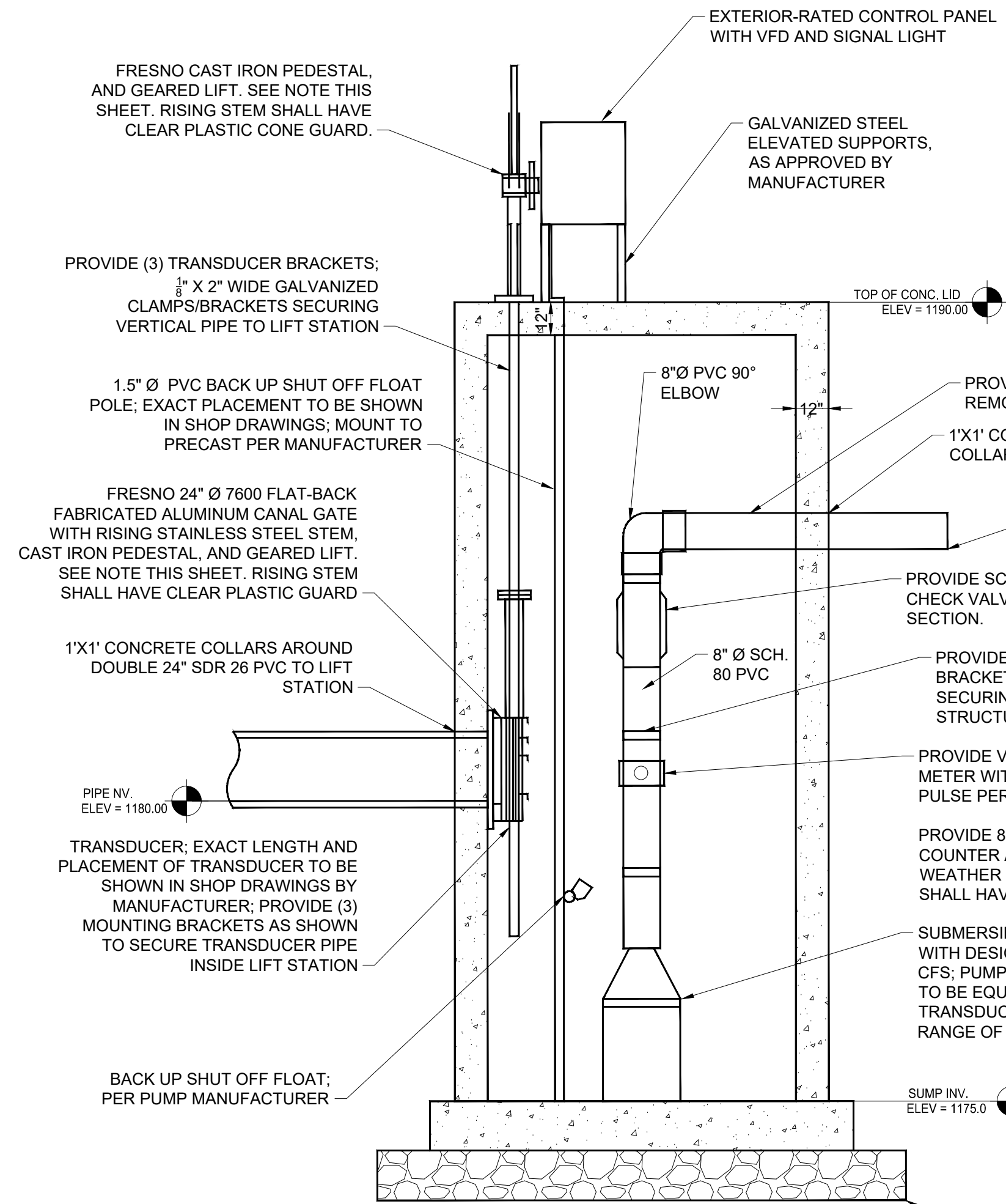
PLAN DETAIL - LIFT STATION COVER



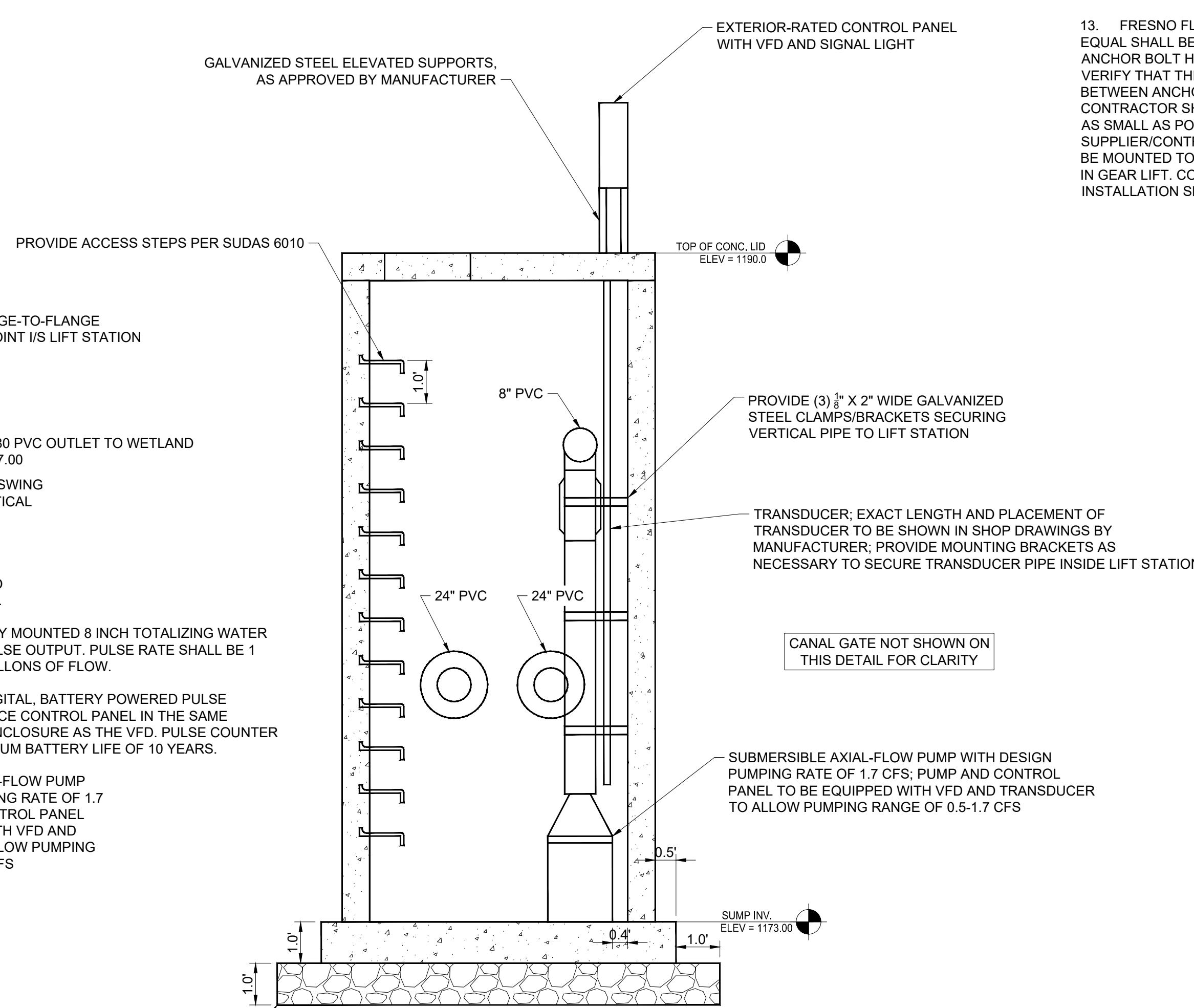
PLAN DETAIL - LIFT STATION

NOTES:

1. THE CALCULATED TOTAL DYNAMIC HEAD OF PUMP SYSTEM IS 12.8 FEET.
2. PUMPING SYSTEM SHALL HAVE A DESIGN PUMPING RATE OF 1.7 CFS (APPROXIMATELY 725 GPM) AT THE DESIGN TOTAL DYNAMIC HEAD. THE PUMP AND CONTROL PANEL SHALL BE PROVIDED WITH A VARIABLE SPEED DRIVE (VFD) THAT ALLOWS THE PUMP TO AUTOMATICALLY PUMP AT A RANGE OF 0.5 - 1.7 CFS, BASED ON AVAILABLE WATER FLOW FROM THE CREEK INTAKES.
3. PUMP SYSTEM SHALL BE PROVIDED WITH TIMER OR OTHER SAFETY FEATURE TO CONTROL AMOUNT OF PUMP ON/OFF CYCLES PER HOUR, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE A TOTALIZING WATER METER ON THE PUMP DISCHARGE.
5. A COMPLETE BACK UP SHUT OFF FLOAT ASSEMBLY SHALL BE PROVIDED.
6. A CHECK VALVE SHALL BE PROVIDED INSIDE THE LIFT STATION IN THE VERTICAL SECTION OF PIPE, AS WELL AS A FLANGE-TO-FLANGE (REMOVABLE) JOINT. A WEEP HOLE SHALL BE PROVIDED INSIDE THE CHECK VALVE TO PREVENT WATER STANDING/FREEZING INSIDE PIPE.
7. PUMPING SYSTEM AND VFD SHALL BE EQUIPPED WITH LED EXTERIOR 5 COLOR LIGHT SIGNAL KIT.
8. SHOP DRAWINGS SHALL BE PROVIDED BY PUMP MANUFACTURER DISPLAYING ALL PERTINENT DETAILS TO PROVIDE A COMPLETE PUMPING SYSTEM. PUMP SYSTEM CONCEPTUAL DETAILS WERE BASED ON CARRY PUMPS - CARRY CP08 SERIES PUMP (5.0 HP, SINGLE-PHASE, 8.5" IMPELLER), WITH EXTERIOR-GRADE CONTROL PANEL AND VFD WITH SIGNAL LIGHT. CONTRACTOR MAY UTILIZE OTHER PUMPING SYSTEM THAT MEETS THE PUMP SYSTEM DESIGN INTENT, AS APPROVED BY THE ENGINEER.
9. A FACTORY PUMP TEST SHALL BE REQUIRED. THE PUMP SHALL BE TESTED AND PAPERWORK TURNED INTO THE ENGINEER PRIOR TO SHIPPING TO SITE.
10. CONTRACTOR SHALL PROVIDE A REPRESENTATIVE FROM THE PUMP MANUFACTURER (PRIOR TO PROJECT COMPLETION) TO ASSIST IN PUMP STARTUP TO ENSURE PUMPING SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND DESIGN INTENT.
11. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF PRECAST CONCRETE LIFT STATION SEALED BY A LICENSED ENGINEER. KNOCKOUTS FOR 24"Ø PIPE SHALL BE SLIGHTLY OVERSIZED TO PROVIDE TOLERANCE FOR DIFFERENCES IN FIELD CONDITIONS.
12. CONTRACTOR SHALL VERIFY HOLES FOR THE TRANSDUCER, FLOAT, POWER AND ANY OTHER NECESSARY EQUIPMENT WITH THE PUMP MANUFACTURER PRIOR TO PRECAST CASTING. ANY HOLES NOT PROVIDED IN PRECAST WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
13. FRESNO FLAT-BACK 7600 FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL OR APPROVED EQUAL SHALL BE 24"Ø. CONTRACTOR/SUPPLIER MAY HAVE TO FABRICATE AN EXTENSION TO GATE FRAME TO MOVE ANCHOR BOLT HOLES AWAY FROM CIRCULAR KNOCK-OUT IN LIFT STATION. IT WILL BE UP TO THE CONTRACTOR TO VERIFY THAT THE CANAL GATE WILL BOLT TO THE INSIDE OF THE LIFT STATION WALLS LEAVING ADEQUATE COVERAGE BETWEEN ANCHOR BOLTS AND CIRCULAR KNOCKOUT. ANY ADDITIONAL WORK WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CORE-DRILL HOLE IN THE COVER SLAB FOR RISING STEM TO PROTRUDE THROUGH. HOLE SHALL BE AS SMALL AS POSSIBLE TO HAVE LESS FLEX IN VERTICAL SHAFT. SUPPORTS SHALL BE USED *AS DETERMINED BY SUPPLIER/CONTRACTOR) ALONG INSIDE FACE OF LIFT STATION TO SECURE VERTICAL RISING STEM. THE PEDESTAL SHALL BE MOUNTED TO ALLOW HAND TO ROTATE FREE FROM OBSTRUCTION. CLEAR PLASTIC CONE GUARD SHALL BE INCLUDED IN GEAR LIFT. COST OF GATE, FRAME, STAINLESS STEEL RISING STEM, OPERATOR, PEDESTAL AND COMPLETE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR THE LIFT STATION BID ITEMS.



SECTION A-A DETAIL



SECTION B-B DETAIL

12" DEPTH OF COMPACTED AGGREGATE BEDDING BENEATH LIFT STATION; CONTRACTOR SHALL CREATE STABLE BASE PRIOR TO SETTING LIFT STATION

A1 SOUTH WETLAND PUMP
NOT TO SCALE



DRAWN:	GJK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
DATE:	1/10/2025
PROJECT NO:	2142206150
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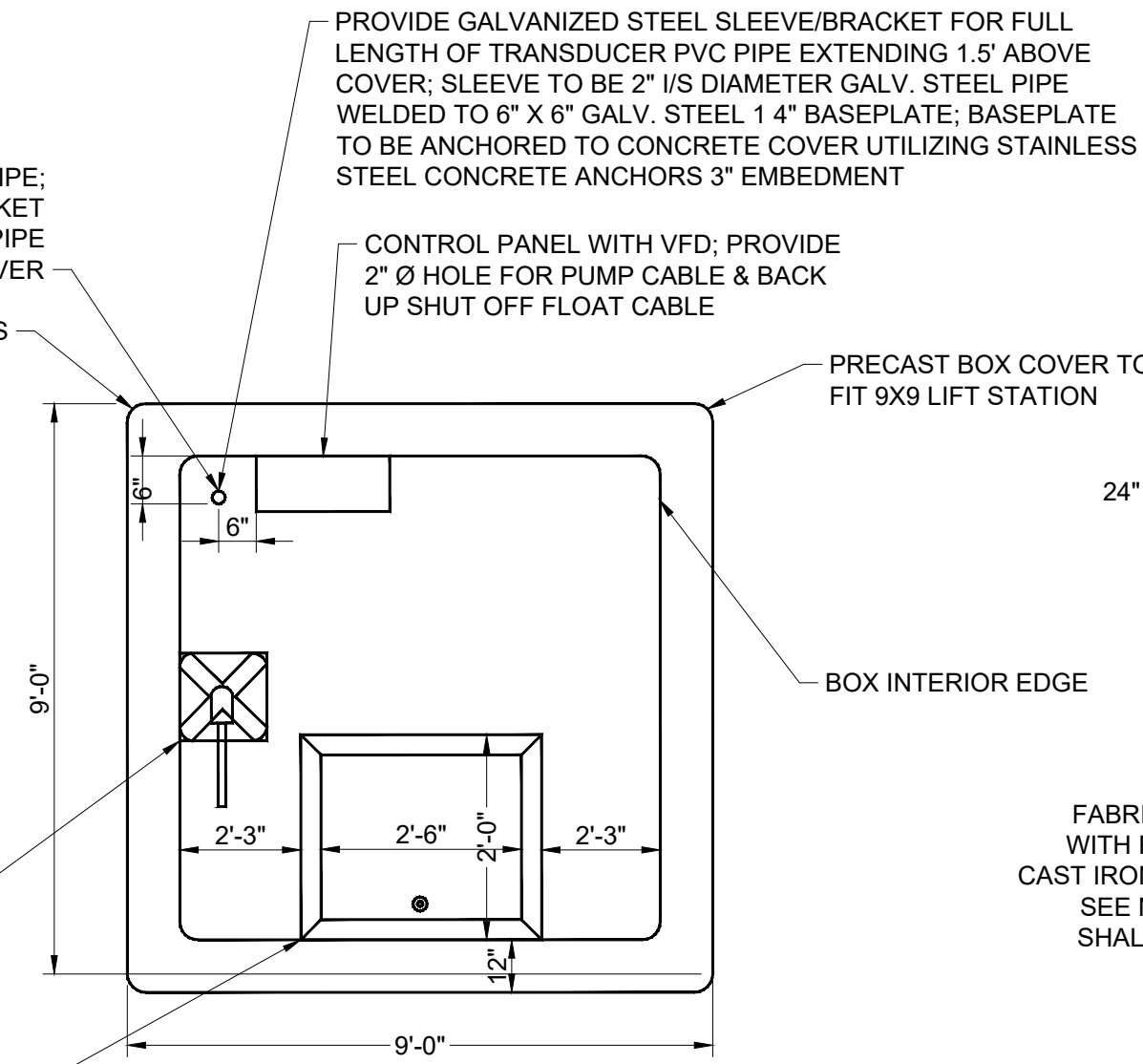
NOTE:
CONTRACTOR SHALL SEAL ALL HOLES THROUGH TOP OF LIFT STATION COVER

PROVIDE 2" Ø HOLE FOR TRANSDUCER PIPE; PROVIDE GALVANIZED STEEL SLEEVE/BACKET FOR FULL LENGTH OF TRANSDUCER PVC PIPE EXTENDING ABOVE COVER

PROVIDE 1" CHAMBER AT EDGES

CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC CONE GUARD.

HALLIDAY PRODUCTS ALUMINUM ACCESS DOOR SR12430 24" X 30" OPENING WITH SERIES X SAFETY GRATE (OR APPROVED EQUAL)



PLAN DETAIL - LIFT STATION COVER

SUBMERSIBLE AXIAL-FLOW PUMP WITH DESIGN PUMPING RATE OF 0.5 TO 1.7 CFS

BACK UP SHUT OFF FLOAT POLE; EXACT LOCATION TO BE DETERMINED BY PUMP MANUFACTURER

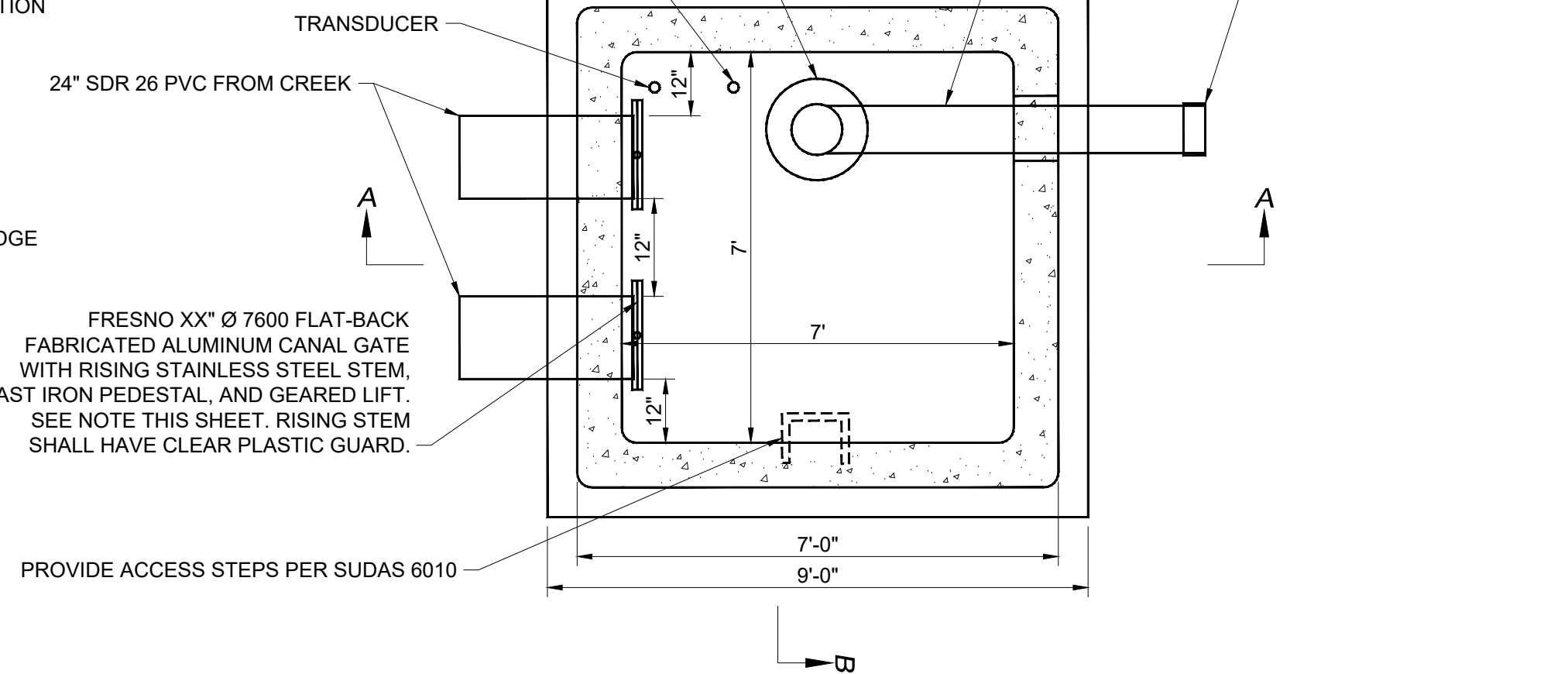
8" Ø PVC INSIDE LIFT STATION AND 2' OUTSIDE OF LIFT STATION

8" PVC OUTLET TO WETLAND

24" SDR 26 PVC FROM CREEK

FRESNO XX" Ø 7600 FLAT-BACK FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL STEM, CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC GUARD.

PROVIDE ACCESS STEPS PER SUDAS 6010



PLAN DETAIL - LIFT STATION

NOTES:

- THE CALCULATED TOTAL DYNAMIC HEAD OF PUMP SYSTEM IS 12.8 FEET.
- PUMPING SYSTEM SHALL HAVE A DESIGN PUMPING RATE OF 1.7 CFS (APPROXIMATELY 725 GPM) AT THE DESIGN TOTAL DYNAMIC HEAD. THE PUMP AND CONTROL PANEL SHALL BE PROVIDED WITH A VARIABLE SPEED DRIVE (VFD) THAT ALLOWS THE PUMP TO AUTOMATICALLY PUMP AT A RANGE OF 0.5 - 1.7 CFS, BASED ON AVAILABLE WATER FLOW FROM THE CREEK INTAKES.
- PUMP SYSTEM SHALL BE PROVIDED WITH TIMER OR OTHER SAFETY FEATURE TO CONTROL AMOUNT OF PUMP ON/OFF CYCLES PER HOUR, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE A TOTALIZING WATER METER ON THE PUMP DISCHARGE.
- A COMPLETE BACK UP SHUT OFF FLOAT ASSEMBLY SHALL BE PROVIDED.
- A CHECK VALVE SHALL BE PROVIDED INSIDE THE LIFT STATION IN THE VERTICAL SECTION OF PIPE, AS WELL AS A FLANGE-TO-FLANGE (REMOVABLE) JOINT. A WEEP HOLE SHALL BE PROVIDED INSIDE THE CHECK VALVE TO PREVENT WATER STANDING/FREEZING INSIDE PIPE.
- PUMPING SYSTEM AND VFD SHALL BE EQUIPPED WITH LED EXTERIOR 5 COLOR LIGHT SIGNAL KIT.
- SHOP DRAWINGS SHALL BE PROVIDED BY PUMP MANUFACTURER DISPLAYING ALL PERTINENT DETAILS TO PROVIDE A COMPLETE PUMPING SYSTEM. PUMP SYSTEM CONCEPTUAL DETAILS WERE BASED ON CARRY PUMPS - CARRY CP08 SERIES PUMP (5.0 HP, SINGLE-PHASE, 8.5" IMPELLER), WITH EXTERIOR-GRADE CONTROL PANEL AND VFD WITH SIGNAL LIGHT. CONTRACTOR MAY UTILIZE OTHER PUMPING SYSTEM THAT MEETS THE PUMP SYSTEM DESIGN INTENT, AS APPROVED BY THE ENGINEER.
- A FACTORY PUMP TEST SHALL BE REQUIRED. THE PUMP SHALL BE TESTED AND PAPERWORK TURNED INTO THE ENGINEER PRIOR TO SHIPPING TO SITE.
- CONTRACTOR SHALL PROVIDE A REPRESENTATIVE FROM THE PUMP MANUFACTURER (PRIOR TO PROJECT COMPLETION) TO ASSIST IN PUMP STARTUP TO ENSURE PUMPING SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND DESIGN INTENT.
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- CONTRACTOR SHALL VERIFY HOLES FOR THE TRANSDUCER, FLOAT, POWER AND ANY OTHER NECESSARY EQUIPMENT WITH THE PUMP MANUFACTURER PRIOR TO PRECAST CASTING. ANY HOLES NOT PROVIDED IN PRECAST WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
- FRESNO FLAT-BACK 7600 FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL OR APPROVED EQUAL SHALL BE 24"Ø. CONTRACTOR/SUPPLIER MAY HAVE TO FABRICATE AN EXTENSION TO GATE FRAME TO MOVE ANCHOR BOLT HOLES AWAY FROM CIRCULAR KNOCK-OUT IN LIFT STATION. IT WILL BE UP TO THE CONTRACTOR TO VERIFY THAT THE CANAL GATE WILL BOLT TO THE INSIDE OF THE LIFT STATION WALLS LEAVING ADEQUATE COVERAGE BETWEEN ANCHOR BOLTS AND CIRCULAR KNOCKOUT. ANY ADDITIONAL WORK WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CORE-DRILL HOLE IN THE COVER SLAB FOR RISING STEM TO PROTRUDE THROUGH. HOLE SHALL BE AS SMALL AS POSSIBLE TO HAVE LESS FLEX IN VERTICAL SHAFT. SUPPORTS SHALL BE USED *AS DETERMINED BY SUPPLIER/CONTRACTOR) ALONG INSIDE FACE OF LIFT STATION TO SECURE VERTICAL RISING STEM. THE PEDESTAL SHALL BE MOUNTED TO ALLOW HAND TO ROTATE FREE FROM OBSTRUCTION. CLEAR PLASTIC CONE GUARD SHALL BE INCLUDED IN GEAR LIFT. COST OF GATE, FRAME, STAINLESS STEEL RISING STEM, OPERATOR, PEDESTAL AND COMPLETE INSTALLATION SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR THE LIFT STATION BID ITEMS.

FRESNO CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC CONE GUARD.

EXTERIOR-RATED CONTROL PANEL WITH VFD AND SIGNAL LIGHT

GALVANIZED STEEL ELEVATED SUPPORTS, AS APPROVED BY MANUFACTURER

PROVIDE (3) TRANSDUCER BRACKETS; 3/8" X 2" WIDE GALVANIZED CLAMPS/BRACKETS SECURING VERTICAL PIPE TO LIFT STATION

1.5" Ø PVC BACK UP SHUT OFF FLOAT POLE; EXACT PLACEMENT TO BE SHOWN IN SHOP DRAWINGS; MOUNT TO PRECAST PER MANUFACTURER

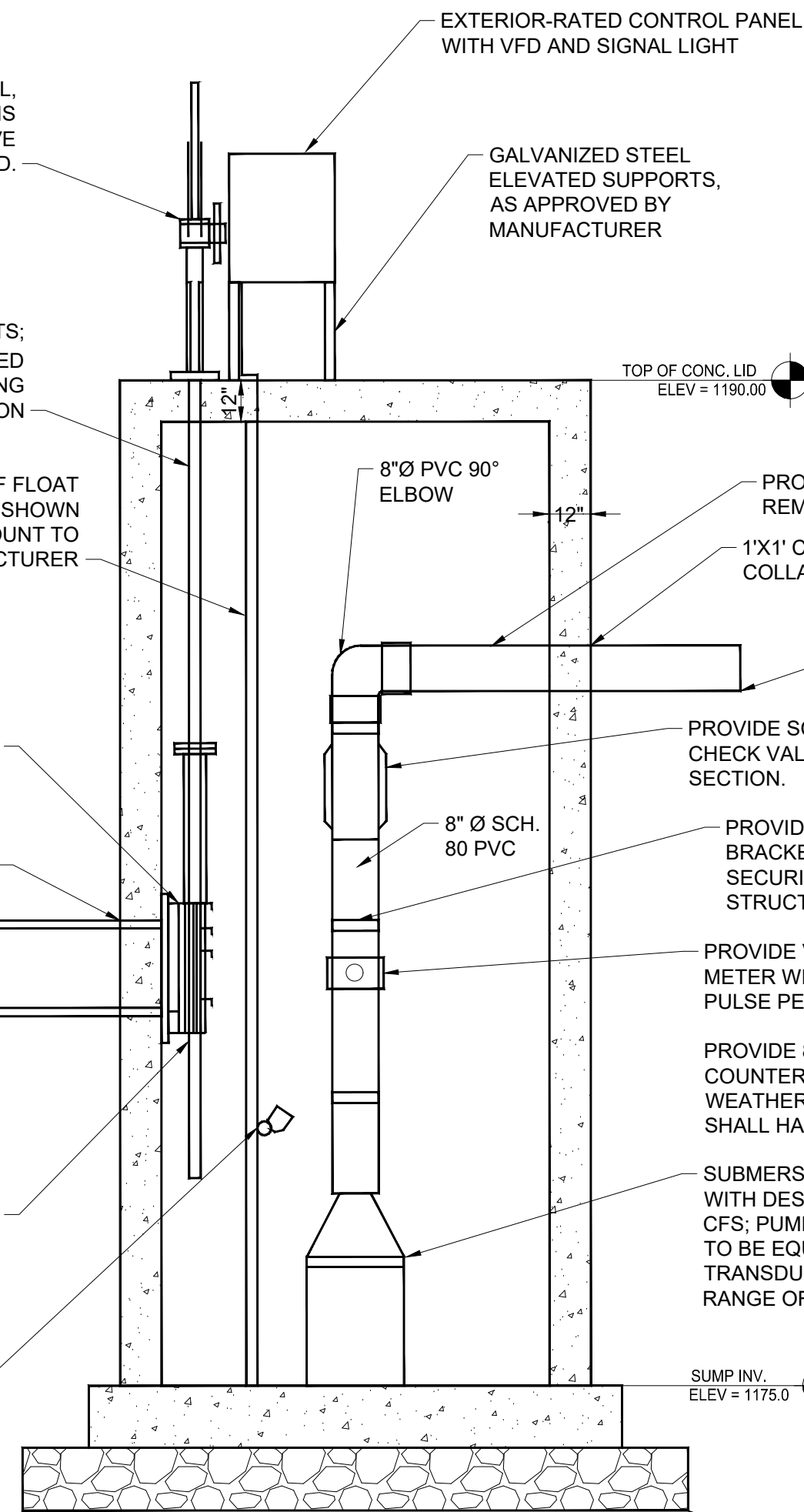
FRESNO 24" Ø 7600 FLAT-BACK FABRICATED ALUMINUM CANAL GATE WITH RISING STAINLESS STEEL STEM, CAST IRON PEDESTAL, AND GEARED LIFT. SEE NOTE THIS SHEET. RISING STEM SHALL HAVE CLEAR PLASTIC GUARD

1'X1' CONCRETE COLLARS AROUND DOUBLE 24" SDR 26 PVC TO LIFT STATION

PIPE INV. ELEV = 1180.00

TRANSDUCER: EXACT LENGTH AND PLACEMENT OF TRANSDUCER TO BE SHOWN IN SHOP DRAWINGS BY MANUFACTURER; PROVIDE (3) MOUNTING BRACKETS AS SHOWN TO SECURE TRANSDUCER PIPE INSIDE LIFT STATION

BACK UP SHUT OFF FLOAT; PER PUMP MANUFACTURER



SECTION A-A DETAIL

PROVIDE ACCESS STEPS PER SUDAS 6010

GALVANIZED STEEL ELEVATED SUPPORTS, AS APPROVED BY MANUFACTURER

EXTERIOR-RATED CONTROL PANEL WITH VFD AND SIGNAL LIGHT

PROVIDE FLANGE-TO-FLANGE REMOVABLE JOINT I/S LIFT STATION

1'X1' CONCRETE COLLAR

8" SCH 80 PVC OUTLET TO WETLAND IE = 1187.00

PROVIDE SCH 80 PVC SWING CHECK VALVE IN VERTICAL SECTION.

PROVIDE 3 BRACKETS SECURING PIPE TO STRUCTURE WALL.

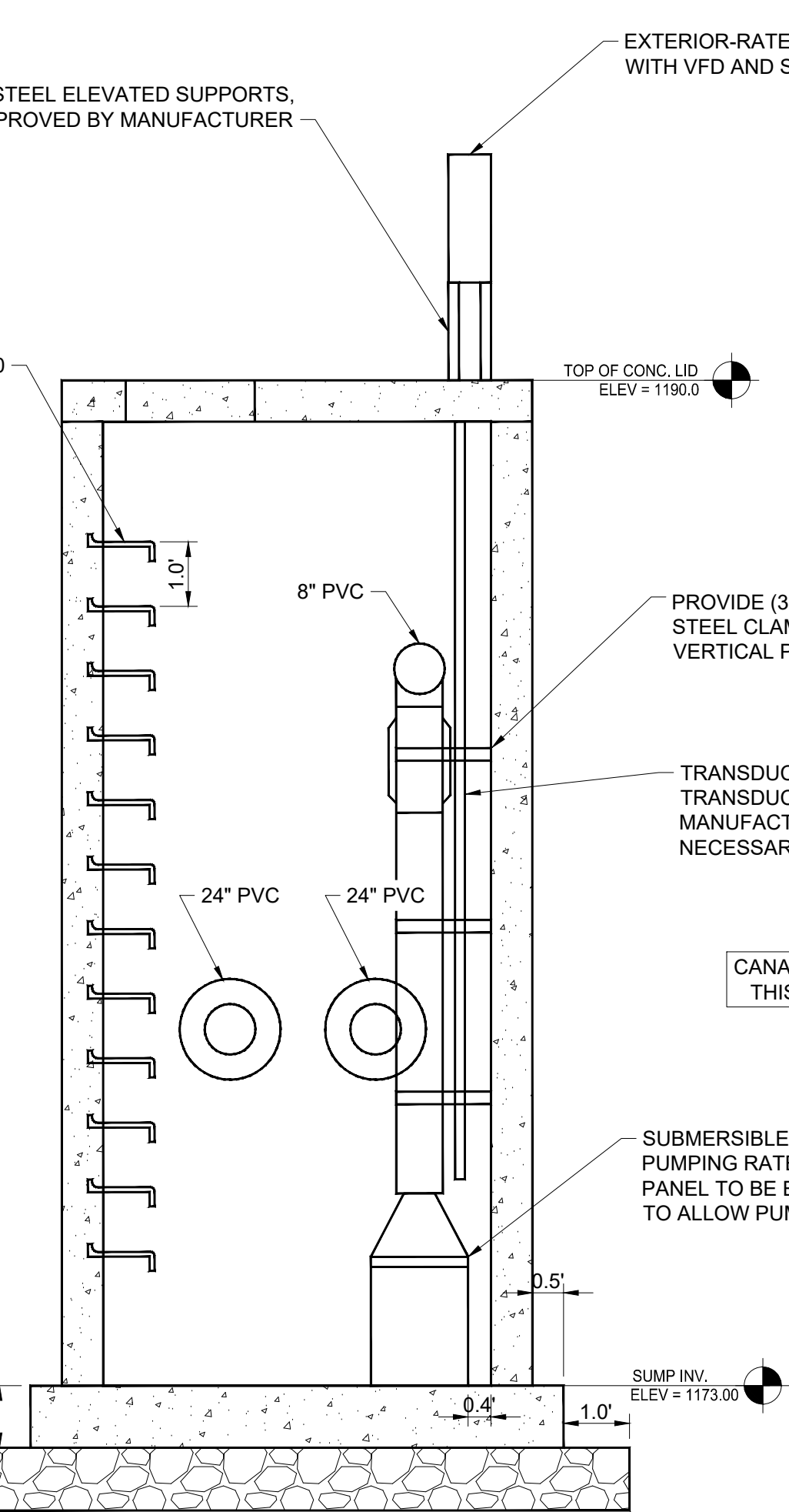
PROVIDE VERTICALLY MOUNTED 8 INCH TOTALIZING WATER METER WITH 24V PULSE OUTPUT. PULSE RATE SHALL BE 1 PULSE PER 1,000 GALLONS OF FLOW.

PROVIDE 8 DIGIT, DIGITAL, BATTERY POWERED PULSE COUNTER AT SURFACE CONTROL PANEL IN THE SAME WEATHER PROOF ENCLOSURE AS THE VFD. PULSE COUNTER SHALL HAVE A MINIMUM BATTERY LIFE OF 10 YEARS.

SUBMERSIBLE AXIAL-FLOW PUMP WITH DESIGN PUMPING RATE OF 1.7 CFS; PUMP AND CONTROL PANEL TO BE EQUIPPED WITH VFD AND TRANSDUCER TO ALLOW PUMPING RANGE OF 0.5 - 1.7 CFS

SUMP INV. ELEV = 1175.00

12" DEPTH OF COMPACTED AGGREGATE BEDDING BENEATH LIFT STATION; CONTRACTOR SHALL CREATE STABLE BASE PRIOR TO SETTING LIFT STATION



SECTION B-B DETAIL

CANAL GATE NOT SHOWN ON THIS DETAIL FOR CLARITY

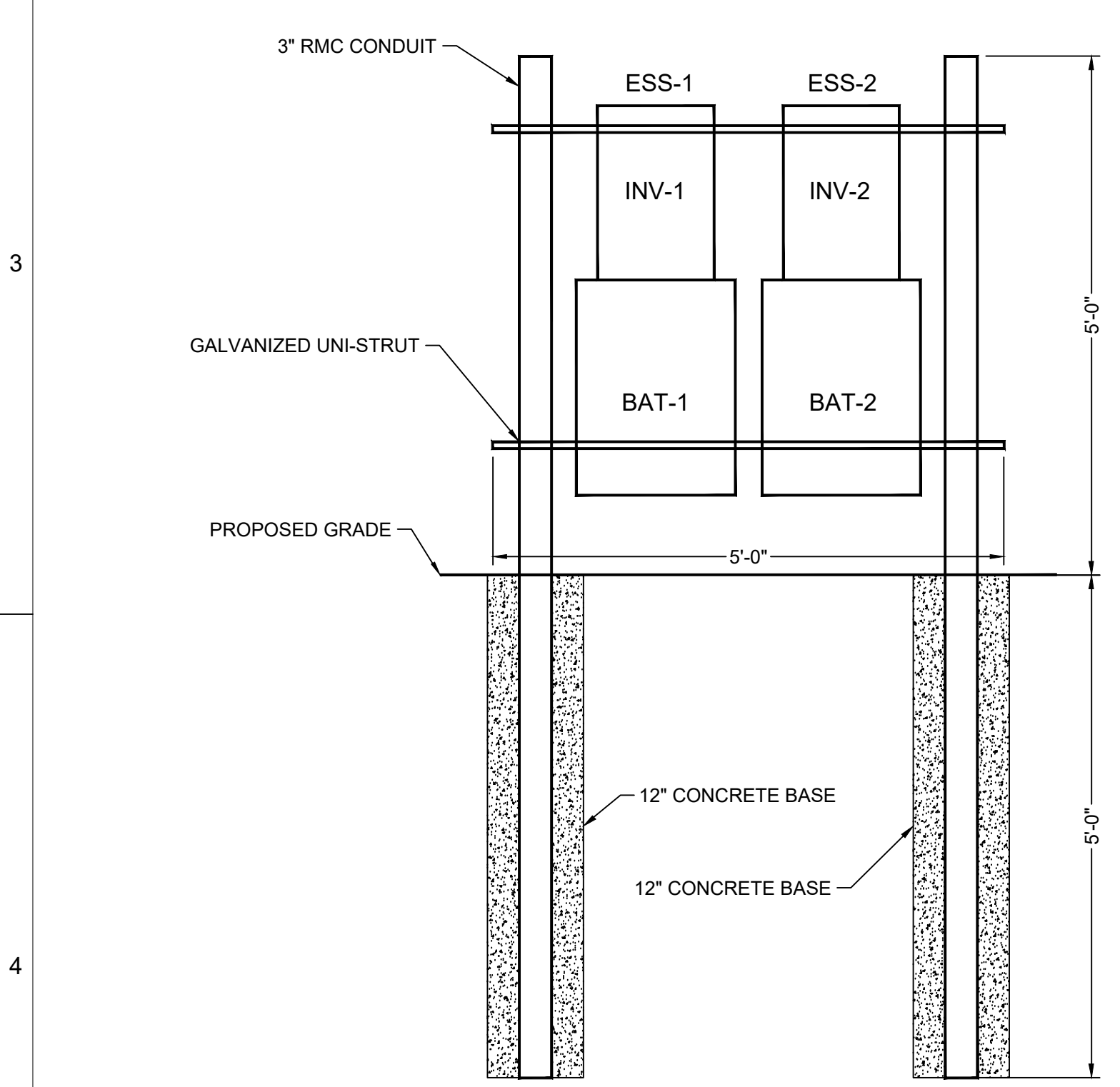
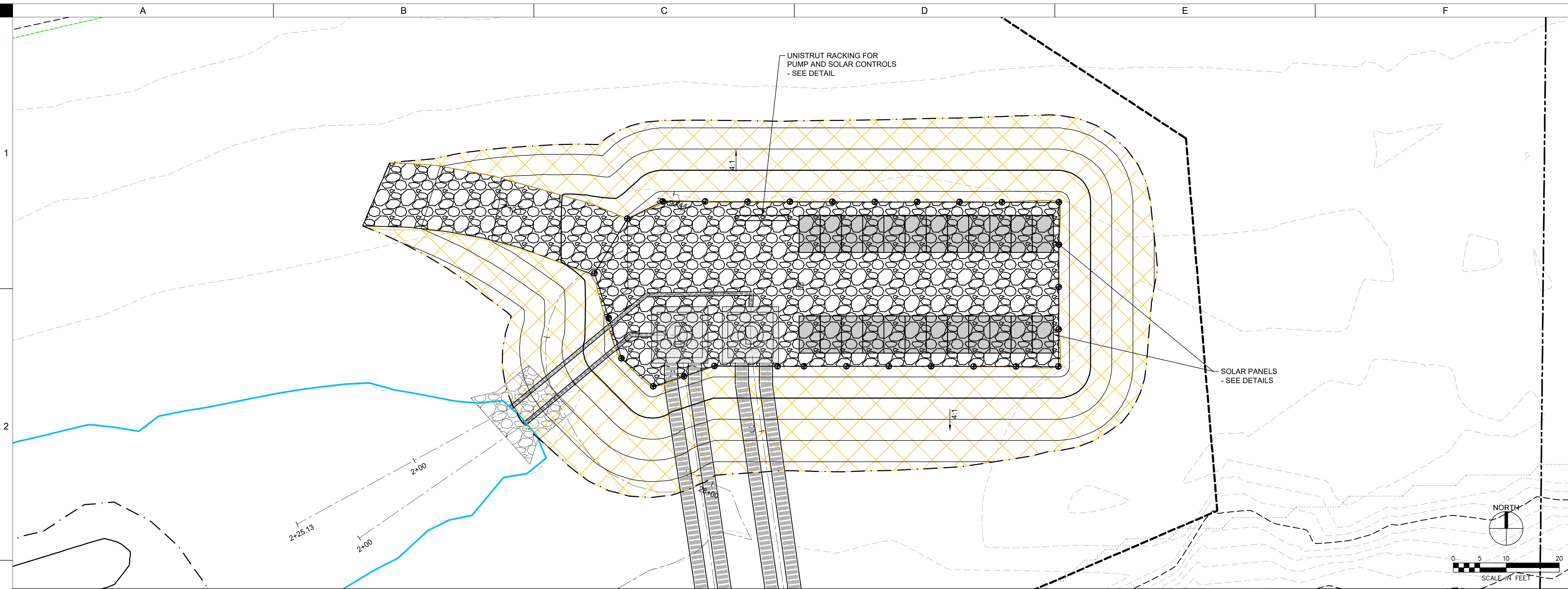
SUBMERSIBLE AXIAL-FLOW PUMP WITH DESIGN PUMPING RATE OF 1.7 CFS; PUMP AND CONTROL PANEL TO BE EQUIPPED WITH VFD AND TRANSDUCER TO ALLOW PUMPING RANGE OF 0.5-1.7 CFS

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A1 SOUTH WETLAND PUMP
NOT TO SCALE



DRAWN:	GJK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
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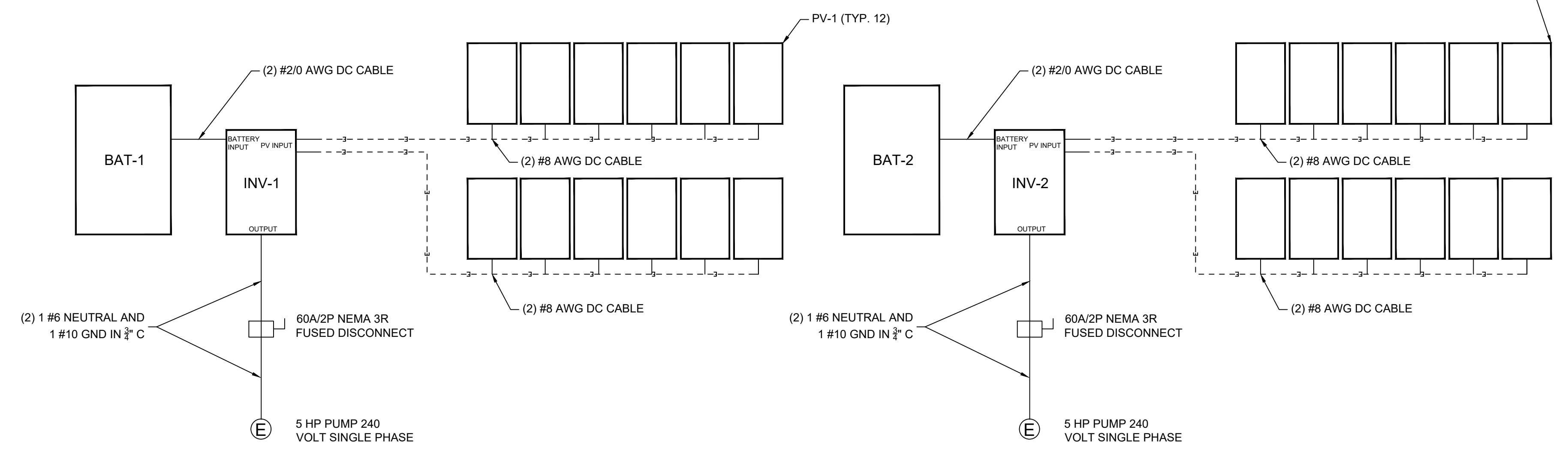
ELEVATION VIEW

GENERAL NOTES:

1. PROVIDE RACKING FOR PV MODULE. RACKING TO BE TAMARACK SOLAR PRODUCTS PGRM POLE TOP MOUNT OR EQUAL. USE 4" SCHEDULE 40 RMC FOR VERTICAL AND 3" SCHEDULE 40 RMC FOR HORIZONTAL. INSTALL VERTICAL IN 12" CONCRETE BASE THAT IS 5' DEEP.
2. PROGRAM SYSTEM TO START RUNNING PUMP IN THE MORNING WHEN BATTERIES ARE ABOVE 40% CAPACITY. RUN PUMPS UNTIL BATTERY CAPACITY IS DEPLETED TO 25%.
3. ELECTRICAL CONTRACTOR TO PROVIDE 24 WIRING BETWEEN PUMP CONTROLLER AND TRANSDUCER, WATER METER AND PULSE COUNTER. COORDINATE EXACT WIRING REQUIREMENTS WITH PUMP MANUFACTURE PRIOR TO ROUGH-IN.

MATERIAL SCHEDULE:

- INV-1/2: + 18,000 WATT OUTDOOR RATED ALL IN ONE INVERTER.
- BAT-1/2: 14.3 KWH WALL MOUNTED ALL WEATHER LITHIUM BATTERY. ESS-1/2: WALL MOUNTED ALL WEATHER ENERGY STORAGE SYSTEM. EACH SYSTEM TO INCLUDE INVERTER AND BATTERY. PROVIDE WITH WIFI DONGLE. EG40PP-16/208A1-18K1-AWALL OR EQUAL
- PV-1/2: 590 WATT PV MODULE. QCELL Q. PEAK DUO RSF XL-G11S SERIES OR EQUAL



RISER DIAGRAM

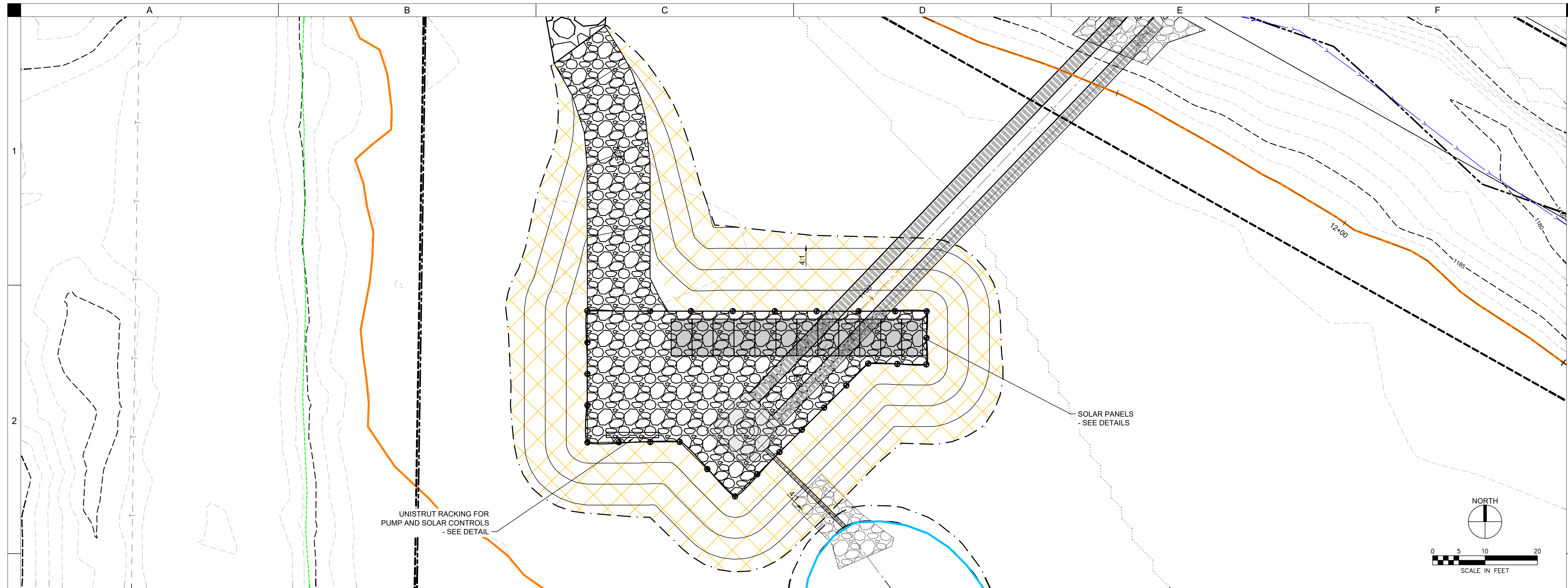
A1 NORTH WETLAND UNISTRUT RACKING AND SOLAR CONTROLS
NOT TO SCALE

SHIVEHATTERY
 ARCHITECTURE + ENGINEERING
 4125 WESTOWN PKWY, SUITE 100
 WEST DES MOINES, IOWA 50266
 515.223.8104 | SHIVEHATTERY.COM

CAL883229B PUMPED WETLANDS
 IDALS
 ROCKWELL CITY, IOWA

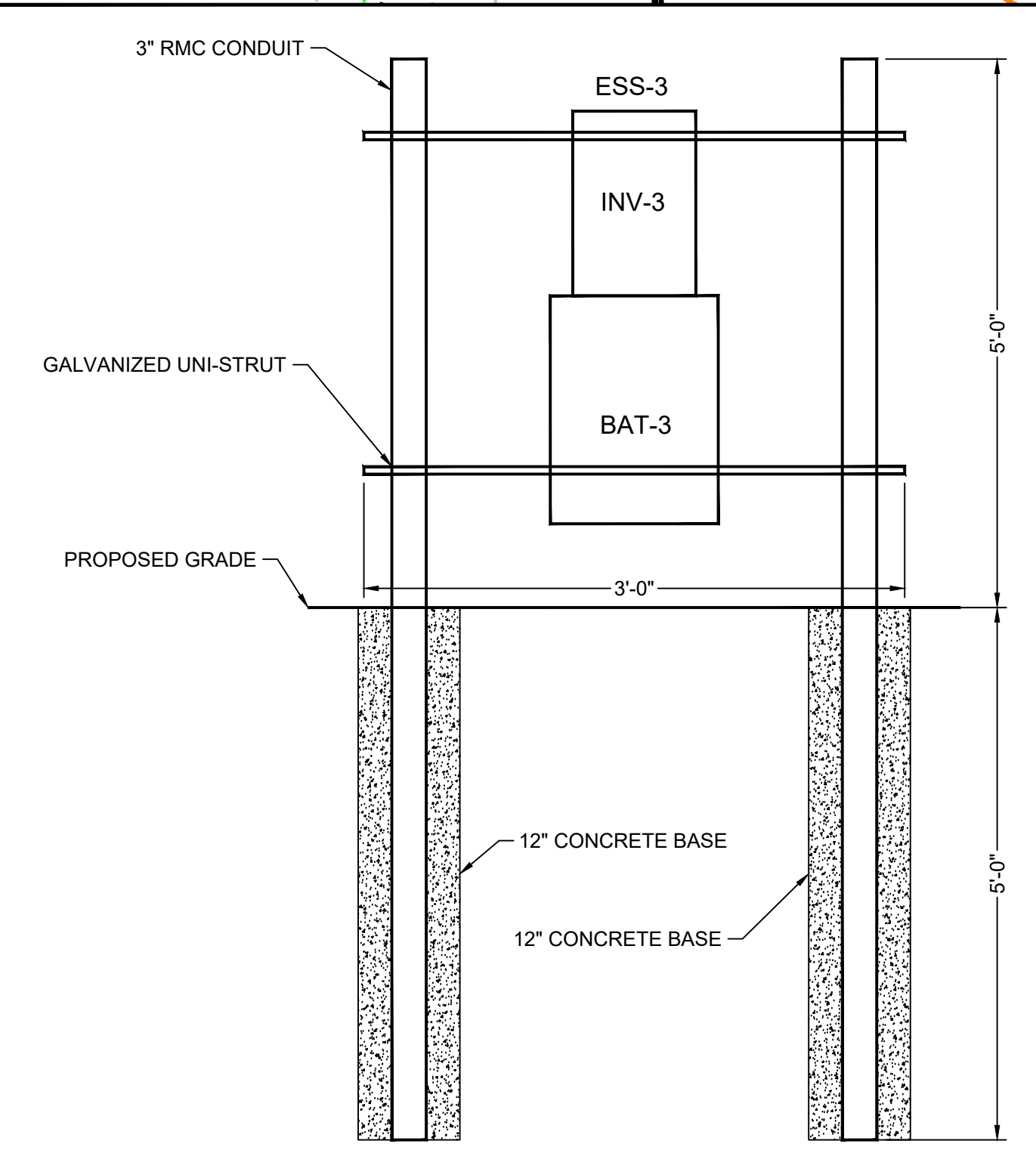
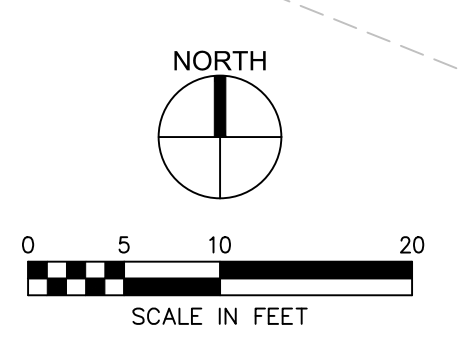
DRAWN:	GJK
APPROVED:	DJ
ISSUED FOR:	BID DOCUMENTS
DATE:	04/28/2026
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CLIENT NO.:	---

NORTH WETLAND PUMP STATION



UNISTRUT RACKING FOR
PUMP AND SOLAR CONTROLS
- SEE DETAIL

SOLAR PANELS
- SEE DETAILS



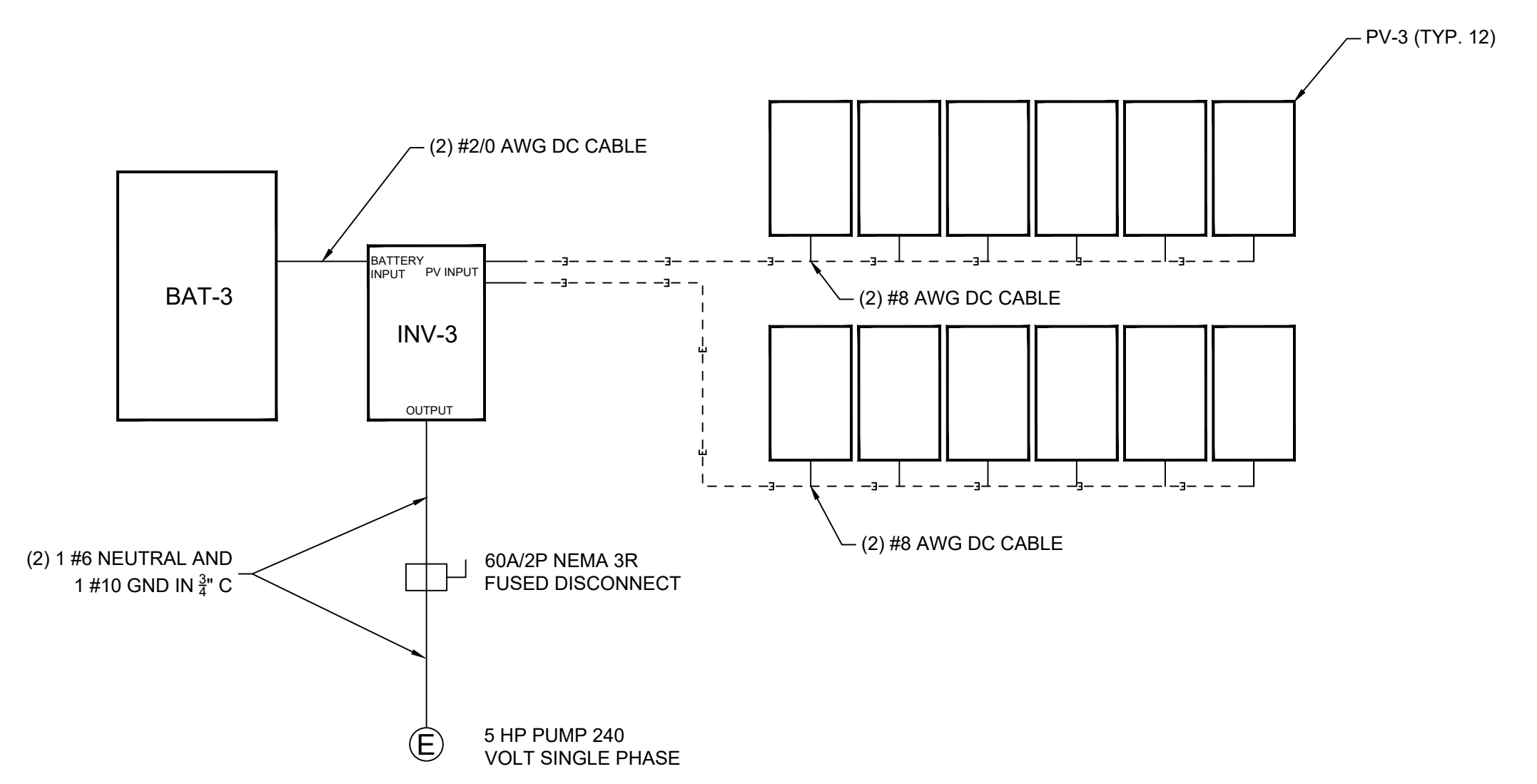
ELEVATION VIEW

GENERAL NOTES:

1. PROVIDE RACKING FOR PV MODULE. RACKING TO BE TAMARACK SOLAR PRODUCTS PGRM POLE TOP MOUNT OR EQUAL. USE 4" SCHEDULE 40 RMC FOR VERTICAL AND 3" SCHEDULE 40 RMC FOR HORIZONTAL. INSTALL VERTICAL IN 12" CONCRETE BASE THAT IS 5' DEEP.
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MATERIAL SCHEDULE:

- INV-3: + 18,000 WATT OUTDOOR RATED ALL IN ONE INVERTER.
- BAT-3: 14.3 KWH WALL MOUNTED ALL WEATHER LITHIUM BATTERY. ESS-1/2: WALL MOUNTED ALL WEATHER ENERGY STORAGE SYSTEM. EACH SYSTEM TO INCLUDE INVERTER AND BATTERY. PROVIDE WITH WIFI DONGLE. EG40PP-16/208A1-18K1-AWALL OR EQUAL
- PV-3: 590 WATT PV MODULE. QCELL Q. PEAK DUO RSF XL-G11S SERIES OR EQUAL



RISER DIAGRAM

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