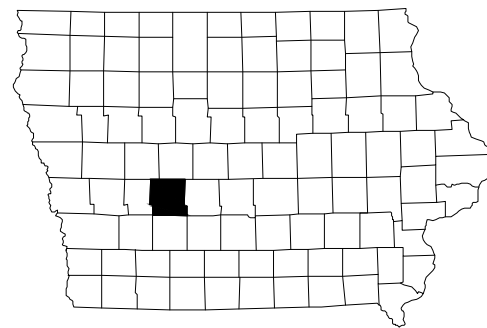
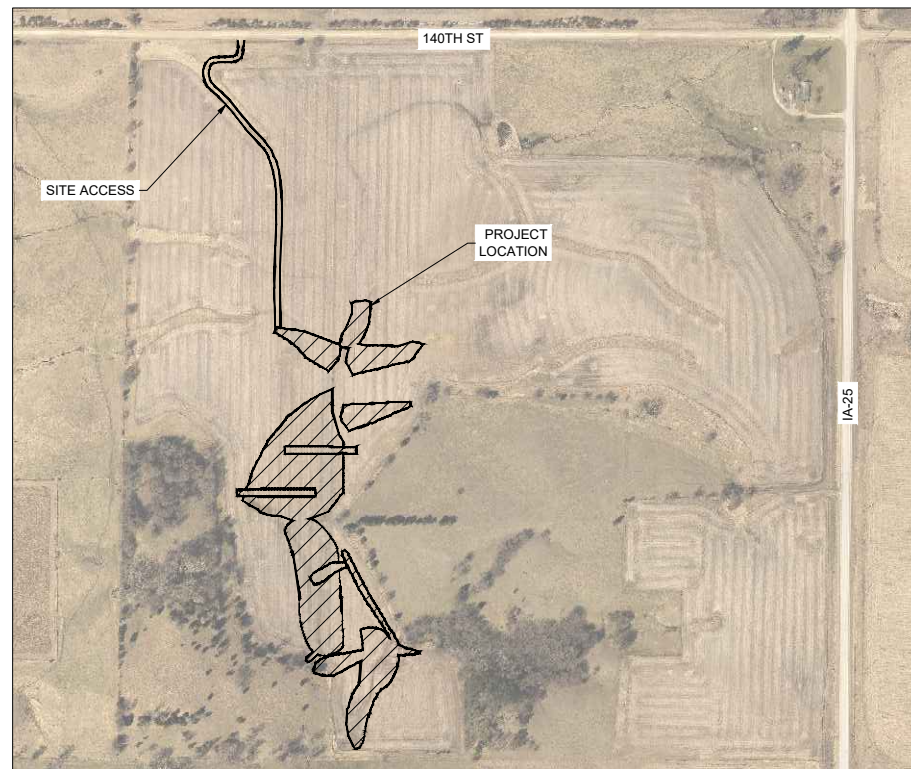
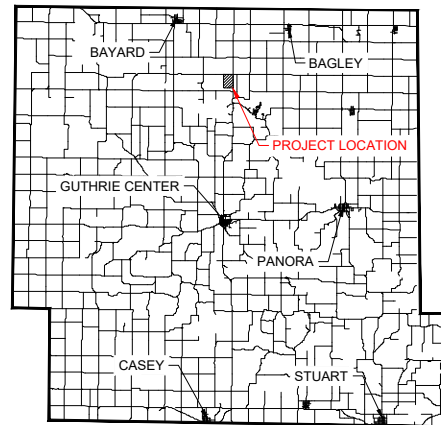


# GUT813130A BREAKPOINT WETLAND IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP GUTHRIE COUNTY, IA

STATE OF IOWA



GUTHRIE COUNTY



Sheet Number	Sheet Title
C000	COVER SHEET
C001	PROJECT QUANTITIES & NOTES
C002	WETLAND DESIGN DATA SHEET
C101	EXISTING SITE CONDITIONS
C201	OVERALL GRADING PLAN
C202	WETLAND GRADING PLAN
C203	WETLAND GRADING PLAN
C204	WETLAND GRADING PLAN
C205	OVERALL CUT FILL PLAN
C301	EMBANKMENT PLAN & PROFILE
C302	PRINCIPAL SPILLWAY PLAN AND PROFILE
C303	DRAWDOWN STRUCTURE PLAN AND PROFILE
C304	WETLAND CROSS SECTION
C305	WEST AND SOUTH EAST FIELD TILE PLAN AND PROFILE
C306	EAST FIELD TILE PLAN AND PROFILE
C401	SHEET PILE CROSS SECTION & DETAIL
C501	CONSTRUCTION DETAILS
C502	CONSTRUCTION DETAILS
C503	CONSTRUCTION DETAILS
C601	SEEDING PLAN

SITE ADDRESS:  
2202-2298 140TH ST, BAYARD, IA 50029  
GUTHRIE COUNTY

PROJECT DRAWING COORDINATE SYSTEM:  
HORIZONTAL: NAD83 IOWA STATE PLANE SOUTH ZONE (1402)  
VERTICAL: NAVD88  
UNITS: U.S. SURVEY FEET

## CIVIL ENGINEER



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT 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. TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGMENT, AND BELIEVE, THESE PLANS MEET APPLICABLE NRCS STANDARDS.

Signature: *Dan Jensen* Date: May 4, 2023

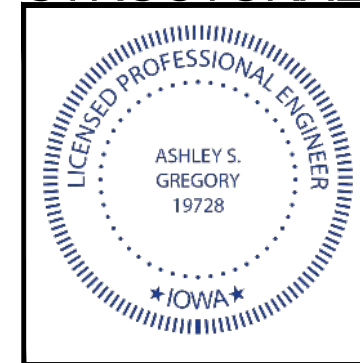
Printed or typed name: DANIEL JENSEN

License Number: 25063

My License Renewal Date is: DECEMBER 31, 2023

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:  
ALL, EXCLUDING SHEET C401

## STRUCTURAL 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: *Ashley Gregory* Date: May 4, 2023

Printed or typed name: ASHLEY GREGORY

License Number: 19728

My License Renewal Date is: DECEMBER 31, 2023

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:  
C401

### 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

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP  
MIKE BOURLAND, PE  
502 E. 9TH STREET  
DES MOINES, IA, 50319  
PH: (515) 242-6130

OWNER:  
DAVID GRETEMAN  
PH: (712) 830-6009

NORTHERN NATURAL GAS  
(NN8) NORTHERN NATURAL GAS COMPANY  
KEITH GOOD  
PH: (515) 202-5067  
KEITH.GOOD@NNGCO.COM

### THE ENGINEERING JOB CLASS IS IV

### NORTHERN NATURAL GAS PERMIT #97514 NOTE:

CONTRACTOR IS SOLELY RESPONSIBLE FOR READING, UNDERSTANDING, AND COMPLIANCE WITH NNG PERMIT #97514 THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL NOTIFY NNG OF THE CONSTRUCTION SCHEDULE 72 HOURS PRIOR TO MOBILIZATION OF ANY EQUIPMENT TO THE SITE. NNG REPRESENTATIVE IS REQUIRED TO BE ON SITE FOR ALL WORK WITHIN THE GAS EASEMENT.

### 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.





**WETLAND DESIGN DATA SHEET:**

CONSULTANT	SHIVE-HATTERY	----
PROJECT ID	GUT813130A	----
LANDOWNER(S)	GRETEMAN, DAVID M	----
PRELIMINARY OR FINAL DESIGN	FINAL DESIGN	----
DRAINAGE AREA	291.5	ACRES
WETLAND POOL AREA	6.1	ACRES
DEEP WATER AREA (>3 FT DEEP)	0.1	ACRES
NORMAL POOL ELEVATION	1145.0	FEET
AVERAGE POOL DEPTH	1.2	FEET
MAXIMUM POOL DEPTH	5.0	FEET
POOL STORAGE	7.4	ACRE-FEET
BERM ELEVATION	1149.0	FEET
BERM STORAGE	53.8	ACRE-FEET

LENGTH OF BERM	230	FEET
AUXILIARY SPILLWAY ELEVATION	1147.0	FEET
AUXILIARY SPILLWAY WIDTH	50	FEET
WEIR WIDTH	65 crest (89 total)	FEET
DROP HEIGHT	5.5	FEET
STILLING BASIN LENGTH	25	FEET
TIME OF CONCENTRATION	0.73	HOURS
WEIGHTED RUNOFF CURVE NUMBER	81	----
25-YEAR STORM DESIGN FLOW	582	CFS
100-YEAR STORM DESIGN FLOW	929	CFS
100-YEAR FLOOD SURF. ELEVATION	1147.55	FEET
ESTIMATED SEDIMENT STORAGE	210	YEARS
TOTAL EASEMENT AREA	24.09	ACRES

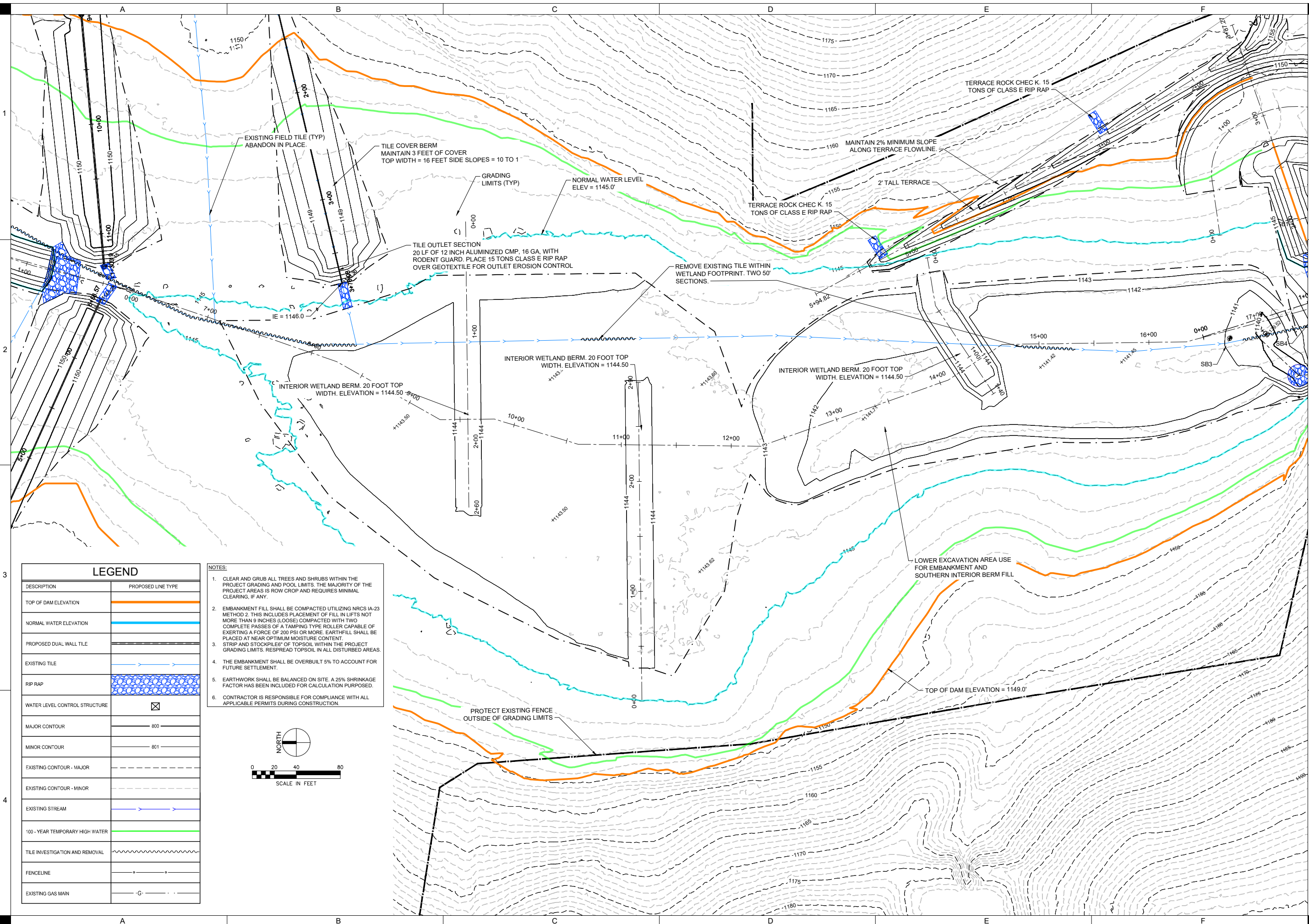
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DRAWN: DJJ  
 APPROVED: DJJ  
 ISSUED FOR: CONSTRUCTION  
 DATE: 2023.05.04  
 PROJECT NO: 4213850  
 FIELD BOOK: --  
 CLIENT NO: GUT813130A







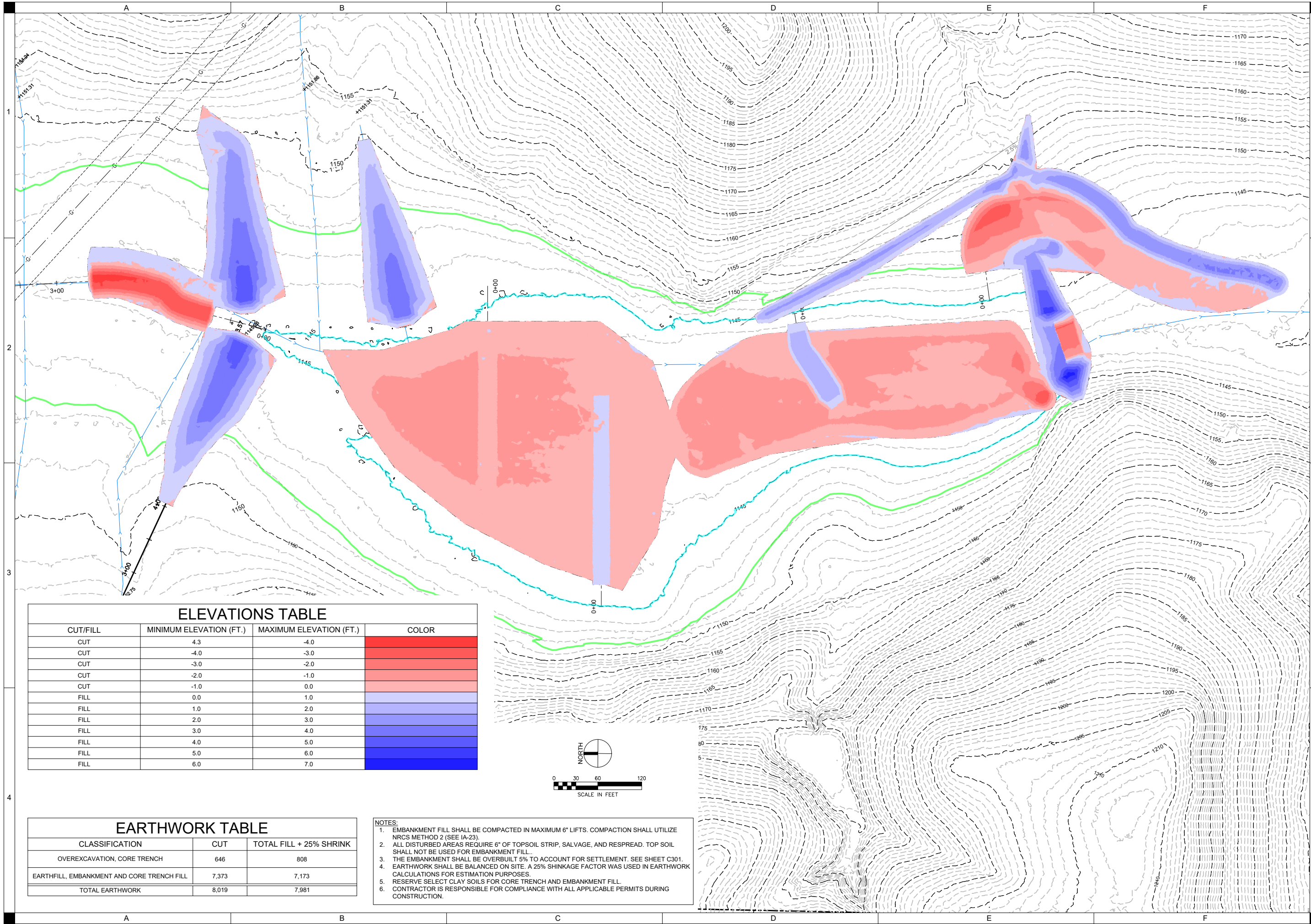


LEGEND	
DESCRIPTION	PROPOSED LINE TYPE
TOP OF DAM ELEVATION	
NORMAL WATER ELEVATION	
PROPOSED DUAL WALL TILE	
EXISTING TILE	
RIP RAP	
WATER LEVEL CONTROL STRUCTURE	
MAJOR CONTOUR	
MINOR CONTOUR	
EXISTING CONTOUR - MAJOR	
EXISTING CONTOUR - MINOR	
EXISTING STREAM	
100-YEAR TEMPORARY HIGH WATER	
TILE INVESTIGATION AND REMOVAL	
FENCELINE	
EXISTING GAS MAIN	

- NOTES:**
- CLEAR AND GRUB ALL TREES AND SHRUBS WITHIN THE PROJECT GRADING AND POOL LIMITS. THE MAJORITY OF THE PROJECT AREAS IS ROW CROP AND REQUIRES MINIMAL CLEARING, IF ANY.
  - EMBANKMENT FILL SHALL BE COMPACTED UTILIZING NRCS IA-23 METHOD 2. THIS INCLUDES PLACEMENT OF FILL IN LIFTS NOT MORE THAN 9 INCHES (LOOSE) COMPACTED WITH TWO COMPLETE PASSES OF A TAMPING TYPE ROLLER CAPABLE OF EXERTING A FORCE OF 200 PSI OR MORE. EARTHFILL SHALL BE PLACED AT NEAR OPTIMUM MOISTURE CONTENT.
  - STRIP AND STOCKPILE TOPSOIL WITHIN THE PROJECT GRADING LIMITS. RESPREAD TOPSOIL IN ALL DISTURBED AREAS.
  - THE EMBANKMENT SHALL BE OVERBUILT 5% TO ACCOUNT FOR FUTURE SETTLEMENT.
  - EARTHWORK SHALL BE BALANCED ON SITE. A 25% SHRINKAGE FACTOR HAS BEEN INCLUDED FOR CALCULATION PURPOSES.
  - CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PERMITS DURING CONSTRUCTION.

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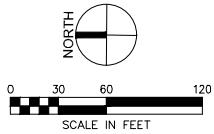
**ELEVATIONS TABLE**

CUT/FILL	MINIMUM ELEVATION (FT.)	MAXIMUM ELEVATION (FT.)	COLOR
CUT	4.3	-4.0	Red
CUT	-4.0	-3.0	Red
CUT	-3.0	-2.0	Red
CUT	-2.0	-1.0	Red
CUT	-1.0	0.0	Red
FILL	0.0	1.0	Light Blue
FILL	1.0	2.0	Light Blue
FILL	2.0	3.0	Light Blue
FILL	3.0	4.0	Light Blue
FILL	4.0	5.0	Light Blue
FILL	5.0	6.0	Light Blue
FILL	6.0	7.0	Light Blue

**EARTHWORK TABLE**

CLASSIFICATION	CUT	TOTAL FILL + 25% SHRINK
OVEREXCAVATION, CORE TRENCH	646	808
EARTHFILL, EMBANKMENT AND CORE TRENCH FILL	7,373	7,173
<b>TOTAL EARTHWORK</b>	<b>8,019</b>	<b>7,981</b>

- NOTES:**
- EMBANKMENT FILL SHALL BE COMPACTED IN MAXIMUM 6" LIFTS. COMPACTION SHALL UTILIZE NRCS METHOD 2 (SEE IA-23).
  - ALL DISTURBED AREAS REQUIRE 6" OF TOPSOIL STRIP, SALVAGE, AND RESPREAD. TOP SOIL SHALL NOT BE USED FOR EMBANKMENT FILL.
  - THE EMBANKMENT SHALL BE OVERBUILT 5% TO ACCOUNT FOR SETTLEMENT. SEE SHEET C301.
  - EARTHWORK SHALL BE BALANCED ON SITE. A 25% SHINKAGE FACTOR WAS USED IN EARTHWORK CALCULATIONS FOR ESTIMATION PURPOSES.
  - RESERVE SELECT CLAY SOILS FOR CORE TRENCH AND EMBANKMENT FILL.
  - CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PERMITS DURING CONSTRUCTION.



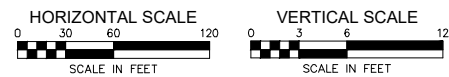
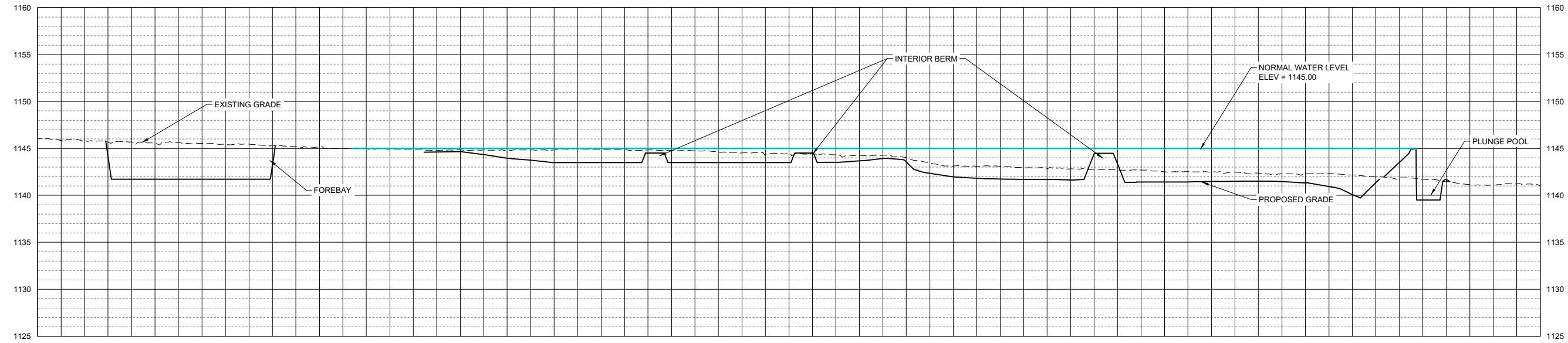
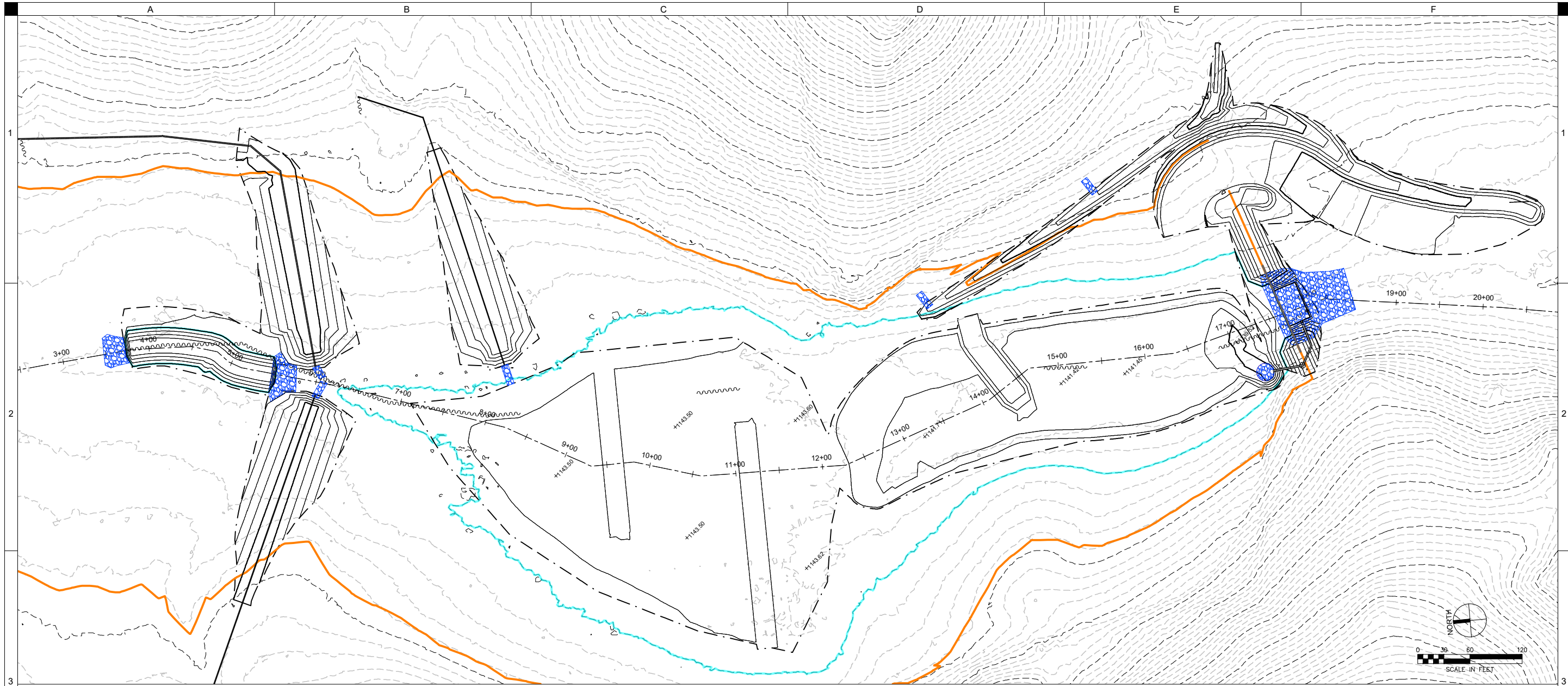
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APPROVED: DJJ
ISSUED FOR: CONSTRUCTION
DATE: 2023.05.04
PROJECT NO: 4213850
FIELD BOOK: --
CLIENT NO: GUT813130A









1 WETLAND CROSS SECTION

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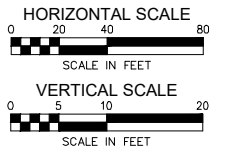
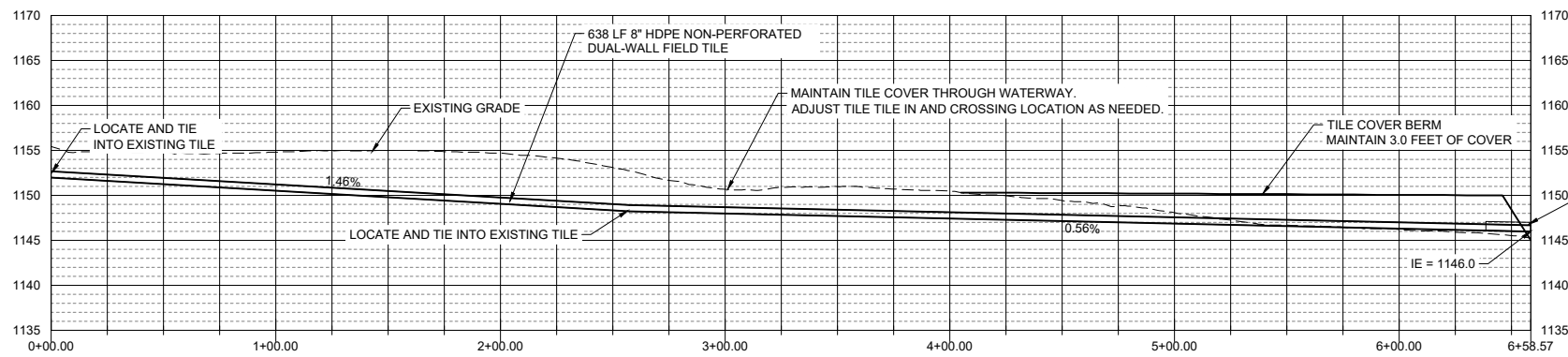
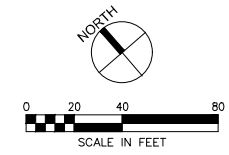
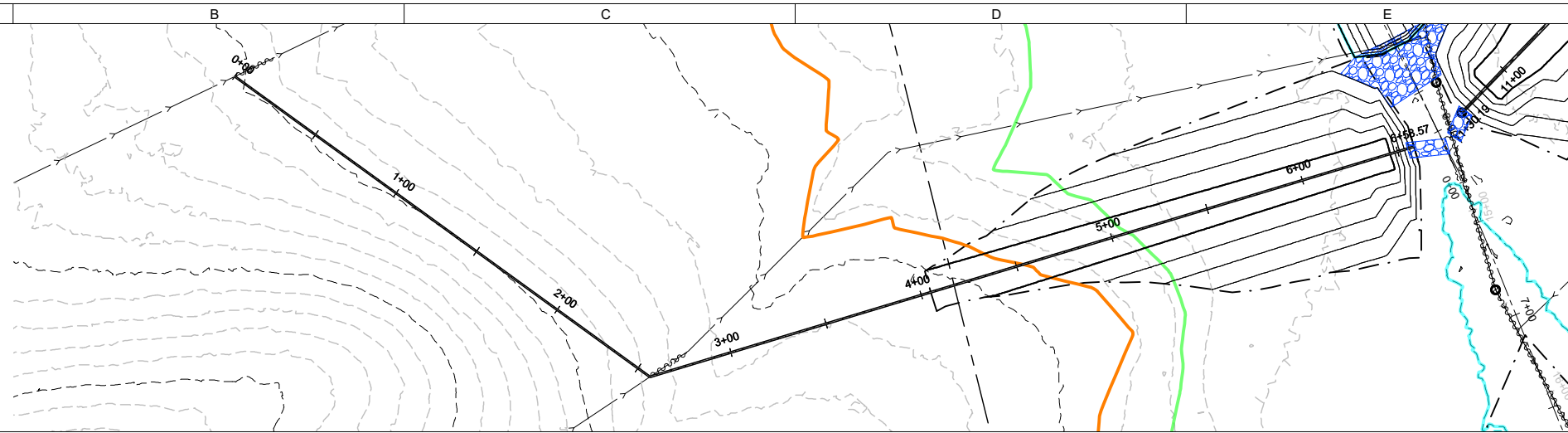
**GUT813130A BREAKPOINT  
 WETLAND**

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP  
 GUTHRIE COUNTY, IA

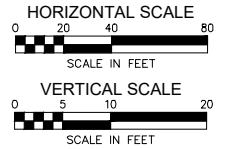
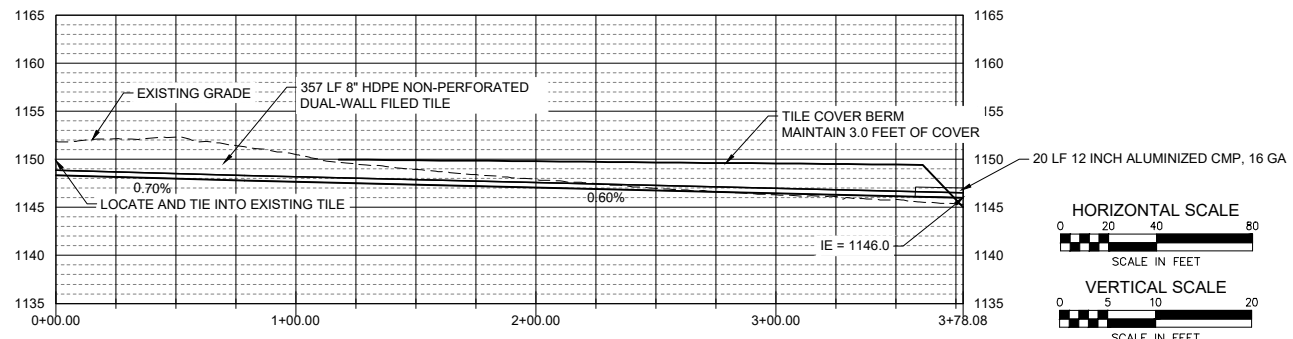
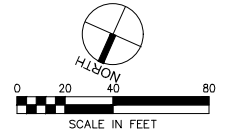
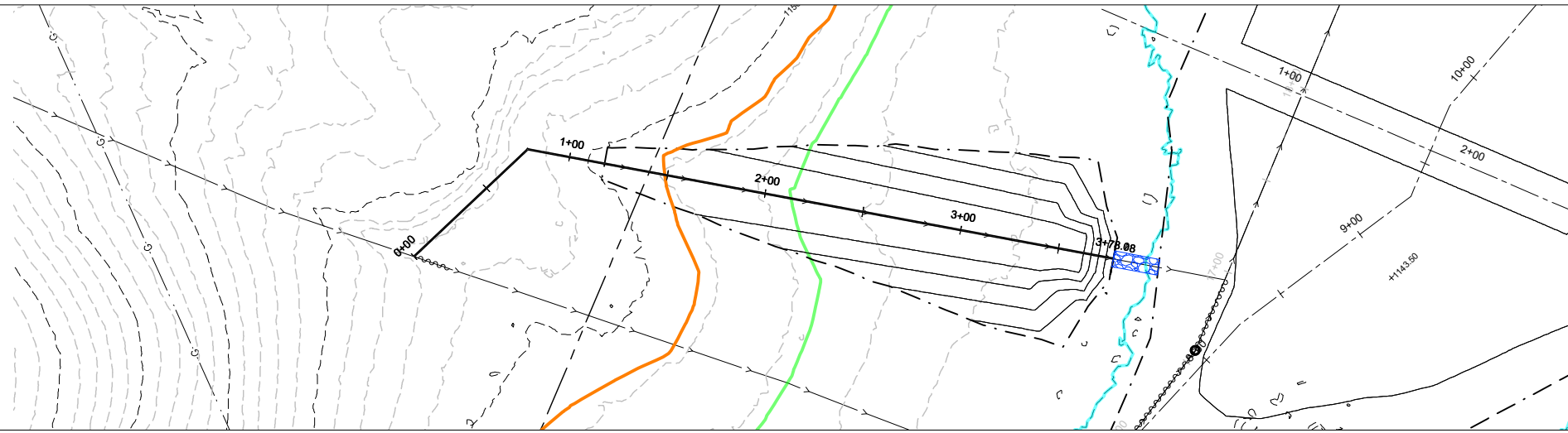
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DATE:	2023.05.04
PROJECT NO.:	4213850
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CLIENT NO.:	GUT813130A

**WETLAND CROSS  
 SECTION**

**C304**



1 WEST FIELD TILE DAYLIGHT



- NOTES:
1. EXPOSE AND PROTECT ANY EXISTING TILES ENCOUNTERED DURING CONSTRUCTION. LEAVE OUTLETS OPEN UNDER PROPOSED WETLAND POOL. NOTIFY ENGINEER IMMEDIATELY UPON DISCOVERY OF UNKNOWN TILE.
  2. EXISTING TILE LOCATIONS AND ELEVATIONS ARE APPROXIMATE. DAYLIGHT TILE TO POOL AT 1' ABOVE NORMAL WATER LEVEL. COORDINATE WITH ENGINEER.
  3. MAINTAIN 3.0 FEET OF COVER OVER ALL FIELD TILE.

2 SOUTH EAST FIELD TILE REPAIR

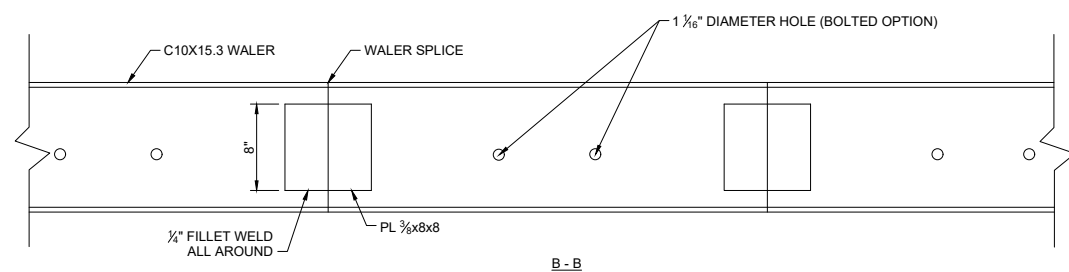
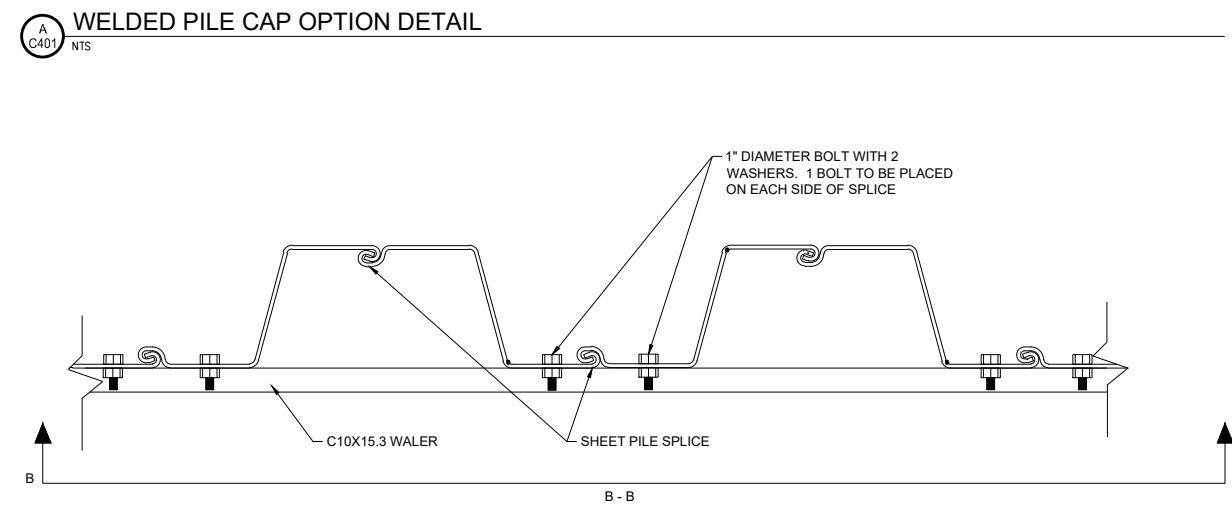
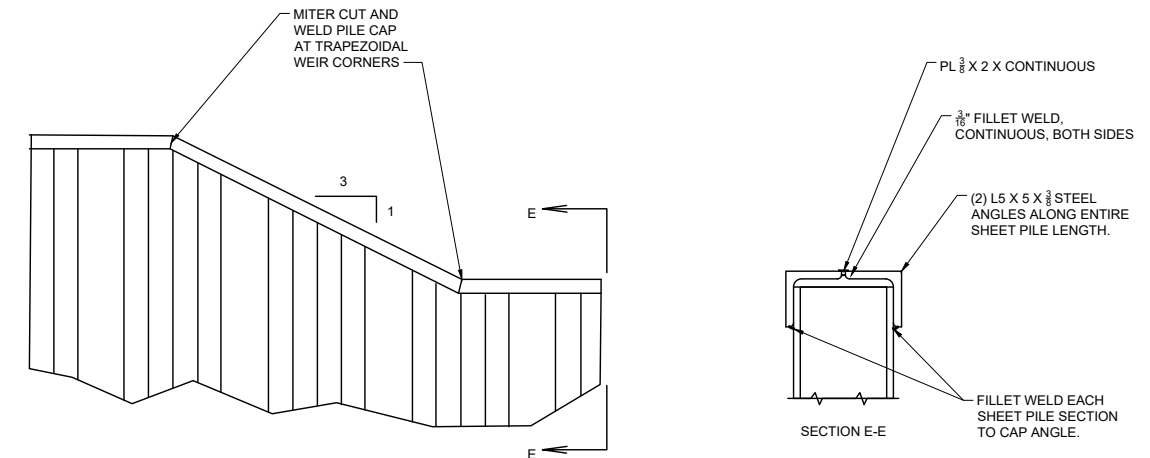
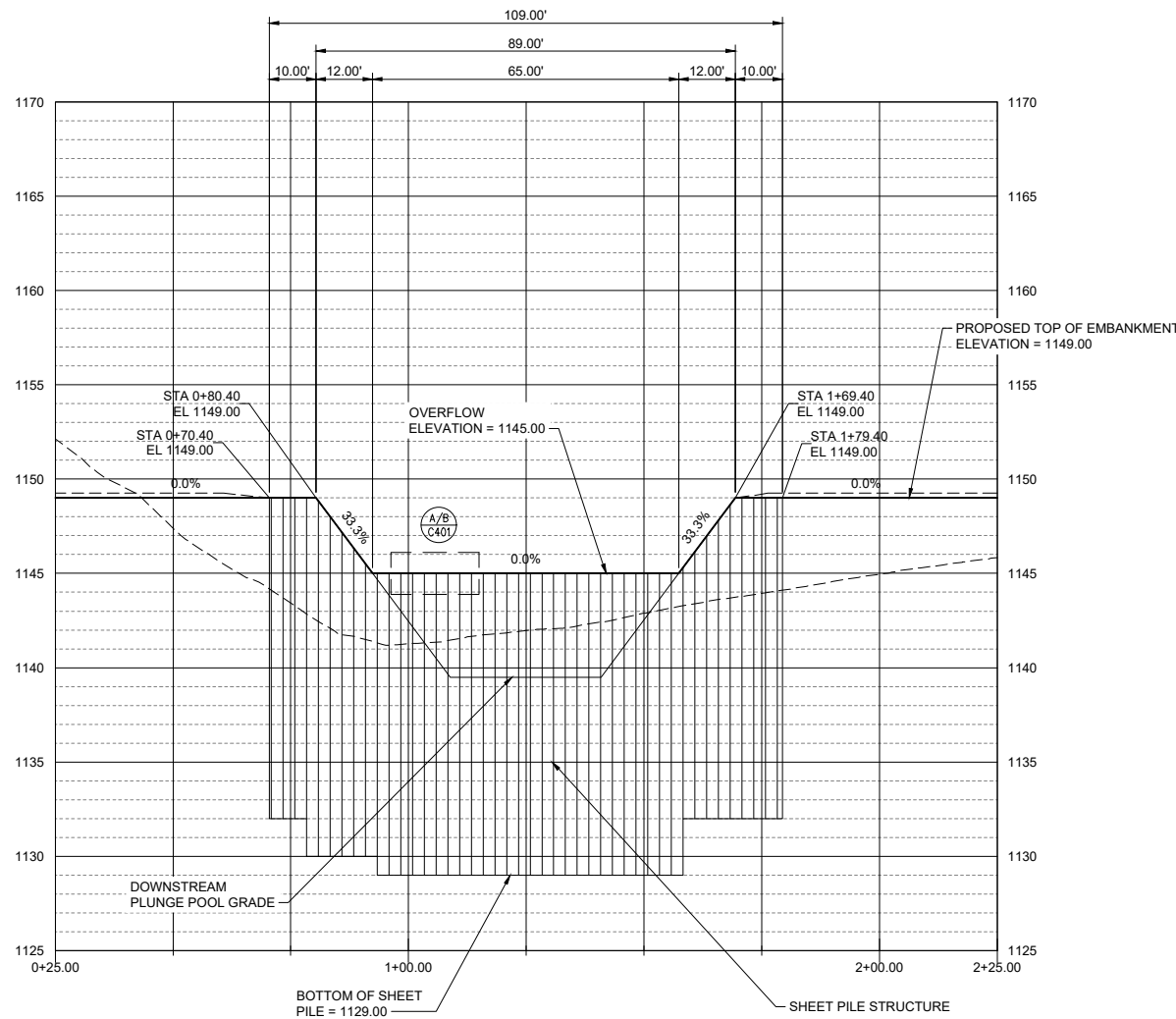
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CLIENT NO.:	GUT813130A

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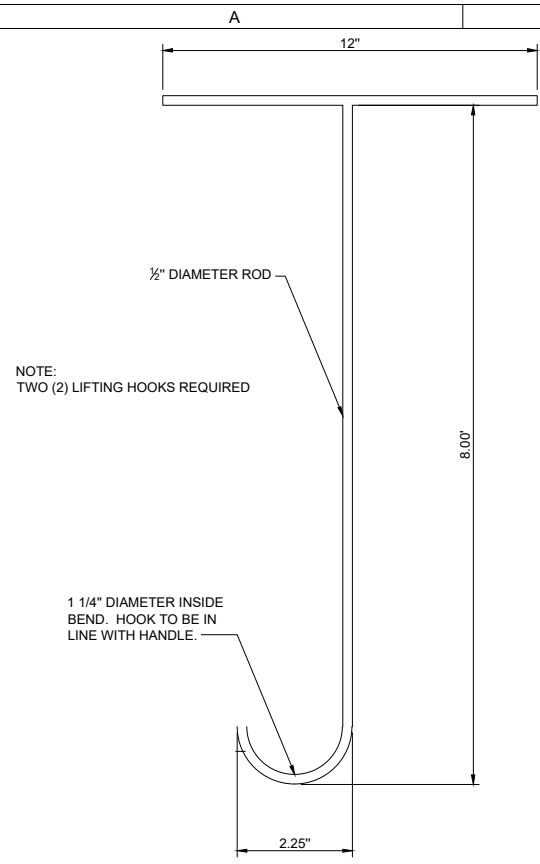


**SHEET PILE GENERAL NOTES:**

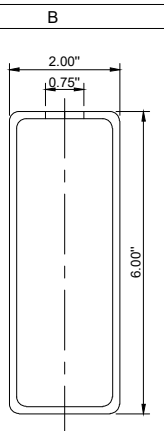
1. DESIGN SHEET PILE AREA IS 1,770 SF AFTER TRIMMING
2. SHEET PILING REQUIREMENTS DESIGN BASIS - SKYLINE STEEL/NUCOR SCZ14 OR ENGINEER APPROVED EQUAL
  - 2.1. MINIMUM SECTION MODULUS OF 14.36 IN<sup>3</sup> PER FOOT OF WALL.
  - 2.2. MINIMUM GRADE OF STEEL IS 50 KSI
  - 2.3. MINIMUM MOMENT OF INERTIA OF 71.82 IN<sup>4</sup> PER FOOT OF WALL.
  - 2.4. MINIMUM THICKNESS OF 0.250"
  - 2.5. ALL SHEET PILING SHALL MEET ASTM A-572 GR50.
  - 2.6. ALL BOLTS SHALL MEET ASTM A307 GRADE A.
  - 2.7. ALL WASHERS SHALL MEET ASTM F436.
  - 2.8. ALL NUTS SHALL MEET ASTM A563.
3. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF PROPOSED SHEET PILE SYSTEM FOR APPROVAL BY ENGINEER.
4. SHEET PILE ATTACHMENT TO WALER:
  - 4.1. SHEET PILE WALER/PILE CAP MAY BE BOLTED OR WELDED. SEE DETAILS FOR OPTIONS.
  - 4.2. BOLTED WALER OPTION
    - 4.2.1. ALL BOLTS WILL BE 1" DIAMETER WITH 2 WASHERS. BOLT SHALL BE EXTENDED AT A MINIMUM OF 3/8" BEYOND THE NUT.
    - 4.2.2. ALL HOLES SHALL BE FIELD DRILLED TO 1 1/8" DIAMETER. TORCH, PLASMA CUTTING, OR OTHER METHODS RESULTING IN AN IMPERFECT HOLE WILL NOT BE PERMITTED.
    - 4.2.3. THE WALER SHALL BE PLACED ON THE DOWNSTREAM SIDE OF THE WEIR.
  - 4.3. WELDED PILE CAP OPTION
    - 4.3.1. AT THE CONTRACTOR'S OPTION, A WELDED PILE CAP MAY BE INSTALLED IN LIEU OF THE BOLTED WALER. SEE PILE CAP OPTION DETAIL.
    - 4.3.2. WELDING SHALL BE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE, AWS D1.1, LATEST EDITION, AND SHALL BE PERFORMED BY CERTIFIED WELDERS ONLY USING E70XX ELECTRODES.
5. ANY HOLES LEFT IN SHEET PILE SHALL BE CLOSED OFF.
6. AFTER SHEETING AND WALER INSTALLATION, ALL SHEETING IS TO BE CUT TO CONFORM WITH THE 3:1 SIDE SLOPE OF THE WEIR, MEET DESIGN ELEVATIONS, AND TO REMOVE ANY DAMAGE CAUSED BY DRIVING.
7. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATION OF AISC. FABRICATOR SHALL SUBMIT SHOP DRAWINGS AND FABRICATE AFTER ENGINEER'S REVIEW AND APPROVAL.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LIVE LOADS.
9. PROVIDE ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACED DURING CONSTRUCTION.
10. A TEMPORARY BERM TO HOLD / GUIDE SHEETPILE DURING CONSTRUCTION IS RECOMMENDED.
11. NOTIFY ENGINEER IMMEDIATELY IF BEDROCK IS ENCOUNTERED PRIOR TO INSTALLATION OF SHEET PILE TO DESIGN DEPTHS.



\*NOTE: SHEET PILE BEYOND NOT SHOWN.

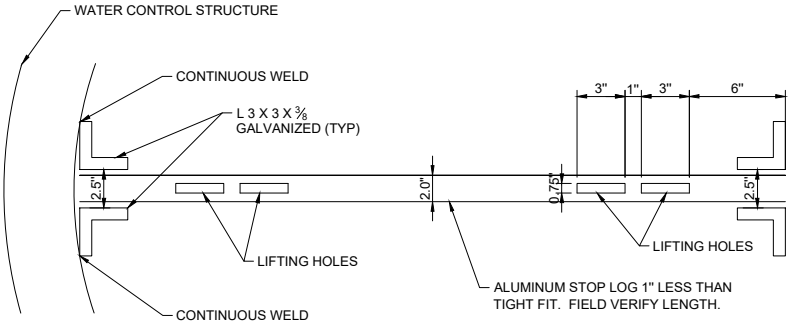


**LIFTING HOOK DETAIL**  
NTS



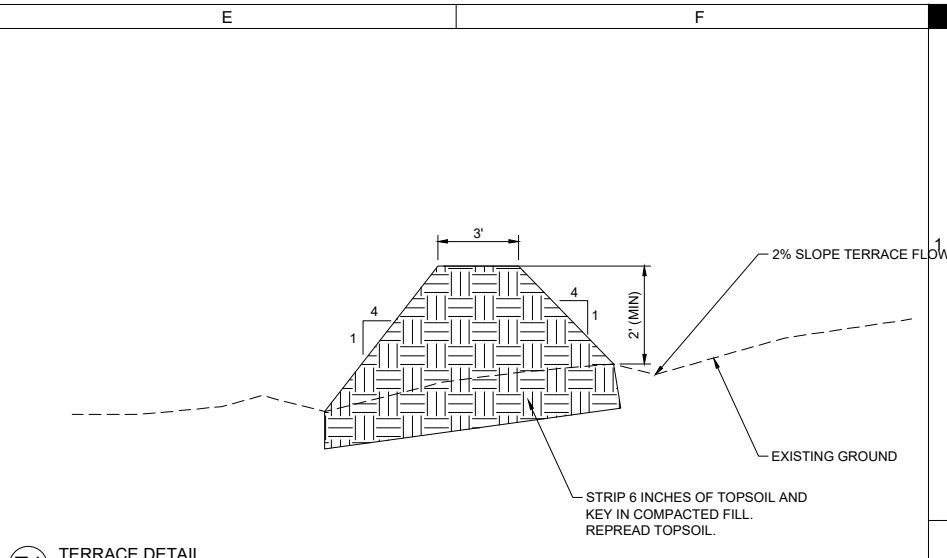
**STOP LOG CROSS SECTION**  
NTS

NOTE:  
ALL ALUMINUM STOP-LOGS SHALL BE PROVIDED BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR CUTTING STOP-LOGS AS SHOWN. THE 0.75" DIMENSION IS CRITICAL AND NEEDS TO BE CENTERED IN THE STOP-LOG TO AVOID LEAKAGE. THE FINISHED SURFACE SHALL BE SMOOTH TO PROVIDE A FLAT SURFACE FOR THE STOP-LOG ABOVE IT. THE CONTRACTOR SHALL DELIVER 12 STOP-LOGS TO THE SITE. THE COST OF THE STOP-LOG WORK IS INCIDENTAL TO THE OUTLET CONTROL STRUCTURE.

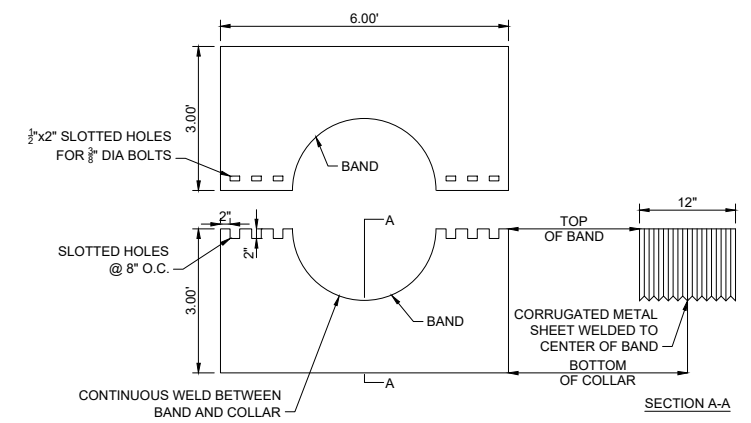


**STOP LOG AND CHANNEL DETAIL**  
NTS

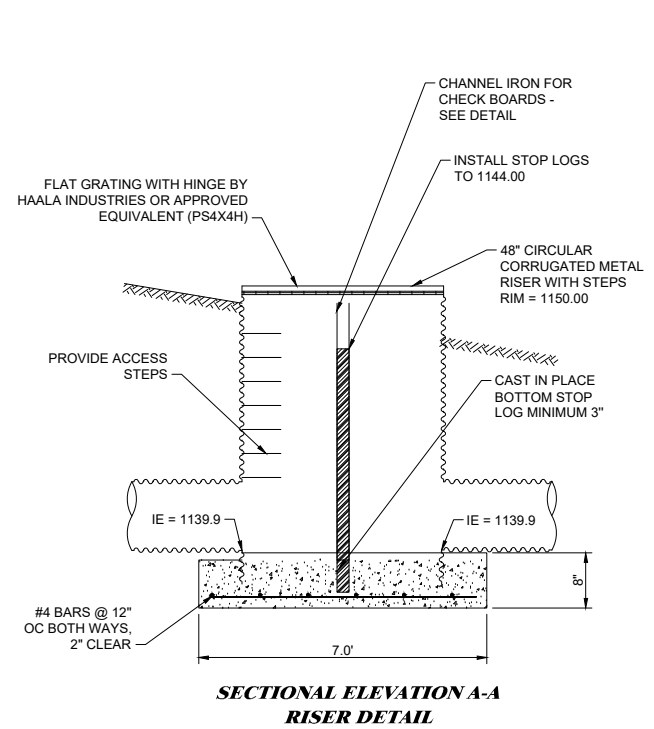
NOTE:  
CONTRACTOR TO DRILL 3/8" HOLES IN TOP OF STOP LOG CHANNELS AND PROVIDE TWO (2) PADLOCKS TO LOCK THROUGH CHANNELS TO PREVENT LOGS FROM BEING LIFTED OUT WHEN LOCK IS IN PLACE.



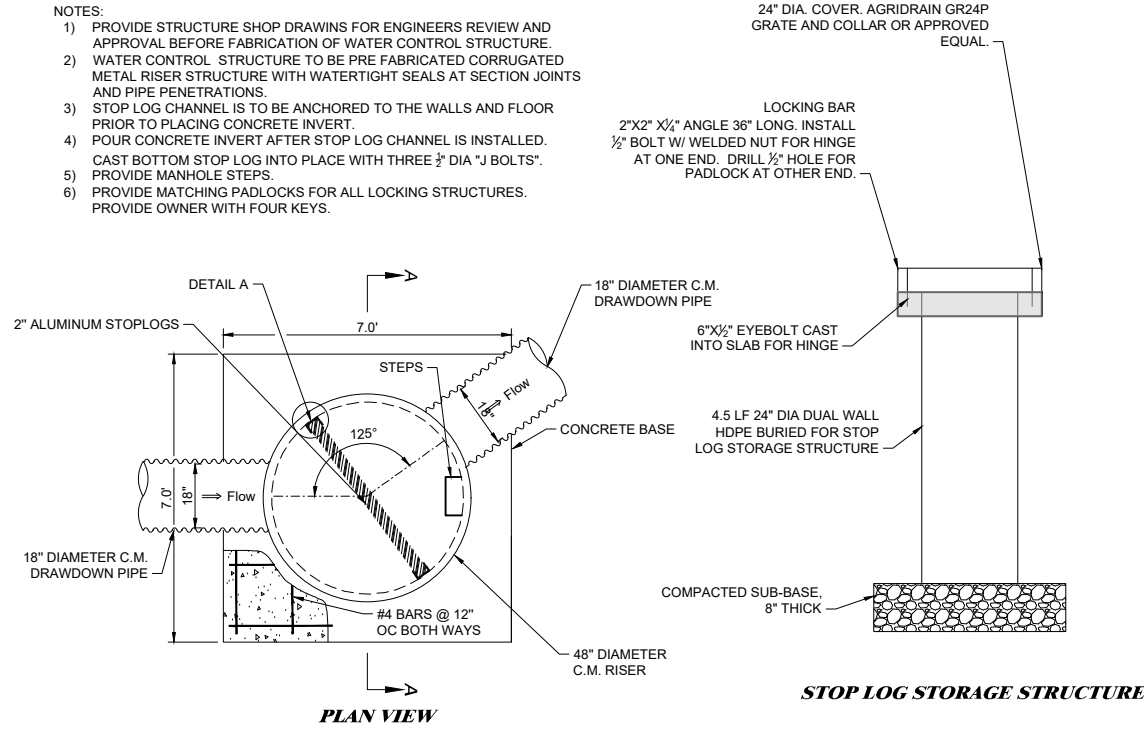
**E1 TERRACE DETAIL**  
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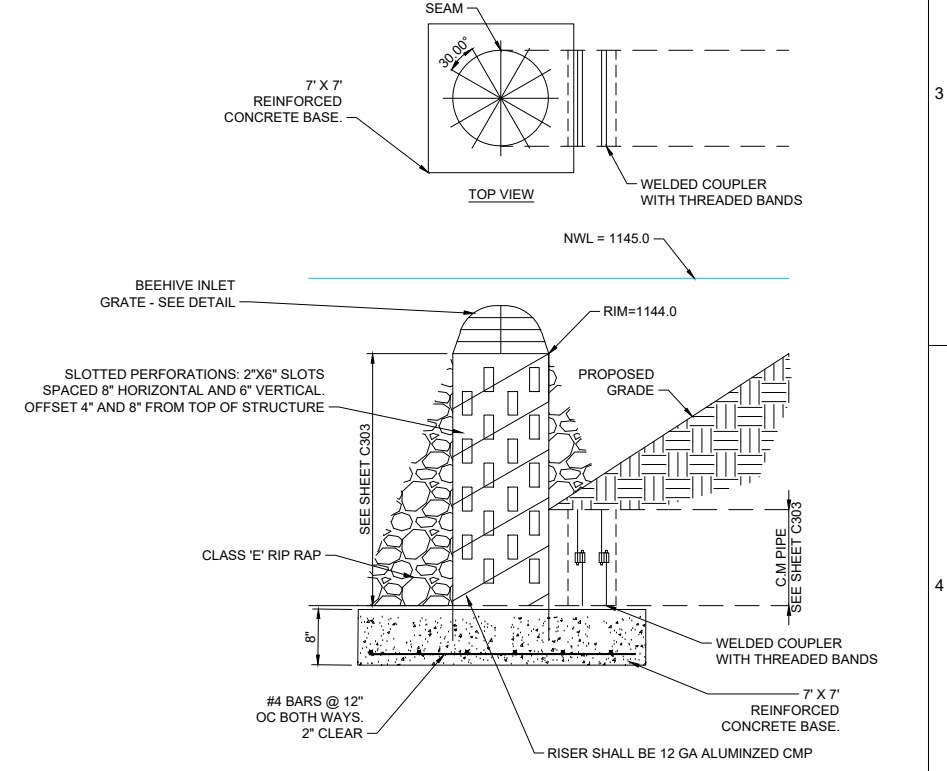
**E2 CMP ANTI-SEEPAGE COLLAR**  
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**SECTIONAL ELEVATION A-A RISER DETAIL**



**STOP LOG STORAGE STRUCTURE**

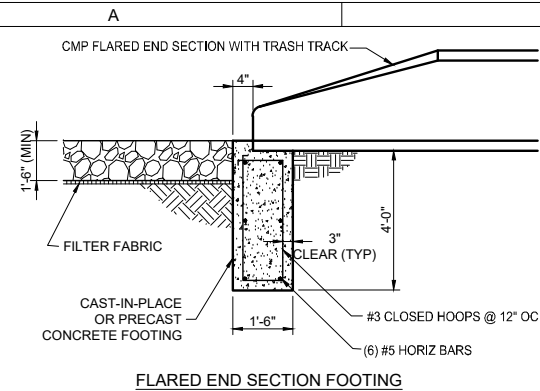


**E4 CORRUGATED METAL RISER**  
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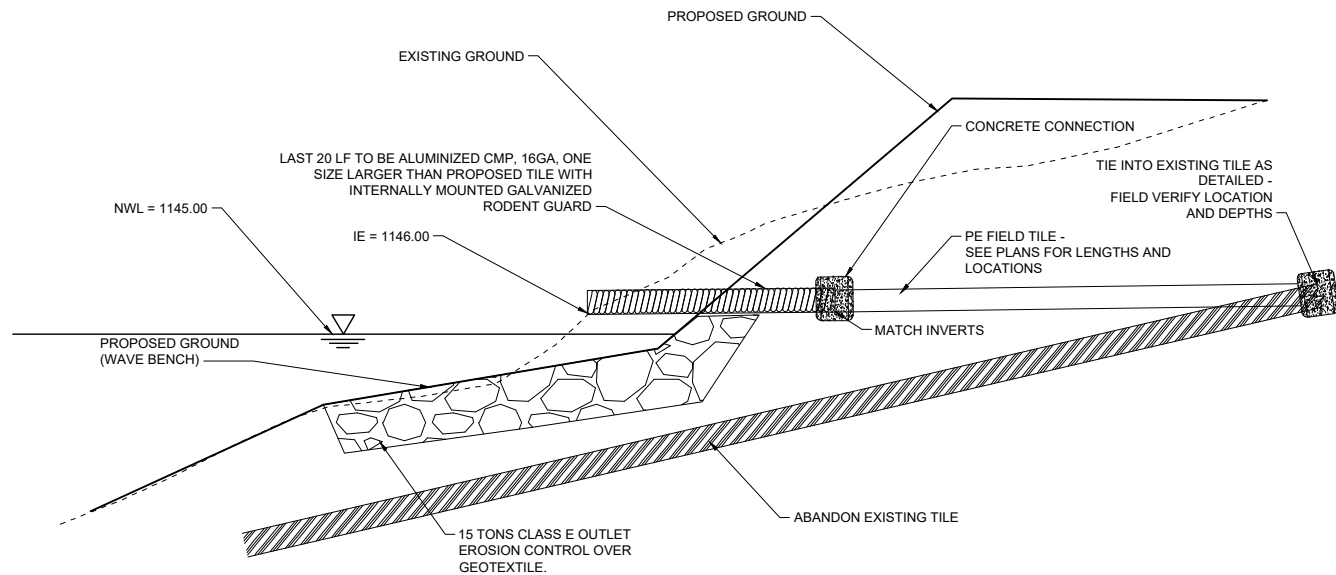
- NOTES:
- 1) PROVIDE STRUCTURE SHOP DRAWINGS FOR ENGINEERS REVIEW AND APPROVAL BEFORE FABRICATION OF WATER CONTROL STRUCTURE. WATER CONTROL STRUCTURE TO BE PRE FABRICATED CORRUGATED METAL RISER STRUCTURE WITH WATERTIGHT SEALS AT SECTION JOINTS AND PIPE PENETRATIONS.
  - 2) STOP LOG CHANNEL IS TO BE ANCHORED TO THE WALLS AND FLOOR PRIOR TO PLACING CONCRETE INVERT.
  - 3) POUR CONCRETE INVERT AFTER STOP LOG CHANNEL IS INSTALLED. CAST BOTTOM STOP LOG INTO PLACE WITH THREE 1/2" DIA "J BOLTS".
  - 4) PROVIDE MANHOLE STEPS.
  - 5) PROVIDE MATCHING PADLOCKS FOR ALL LOCKING STRUCTURES. PROVIDE OWNER WITH FOUR KEYS.

**A4 WATER CONTROL STRUCTURE**  
NOT TO SCALE

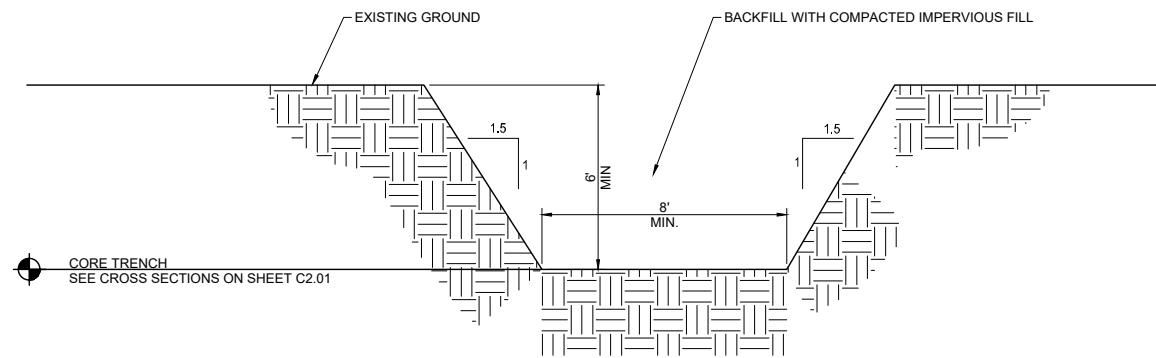
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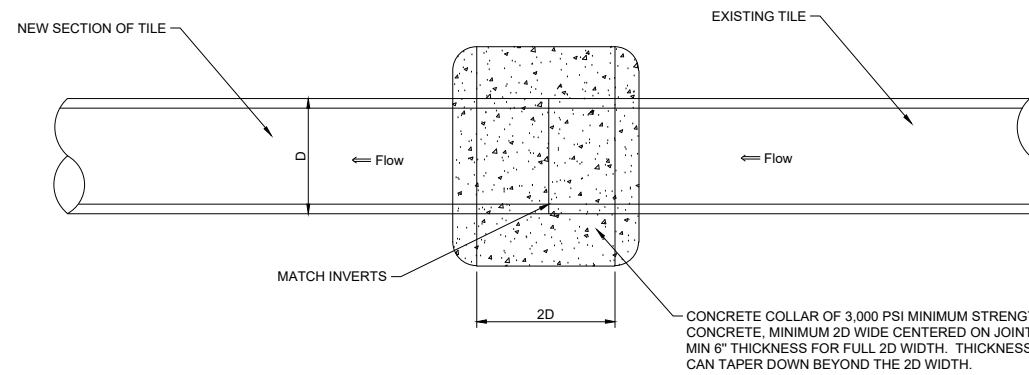
**A1** FLARED END SECTION FOOTING W/ RIP-RAP  
NOT TO SCALE



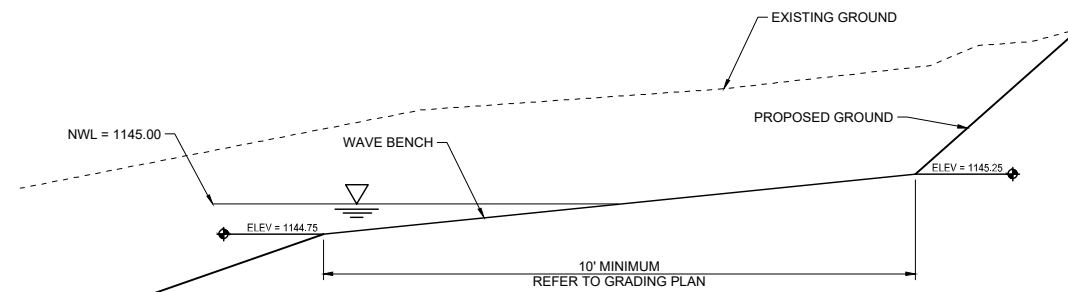
**A3** TYPICAL TILE DAYLIGHT  
NOT TO SCALE



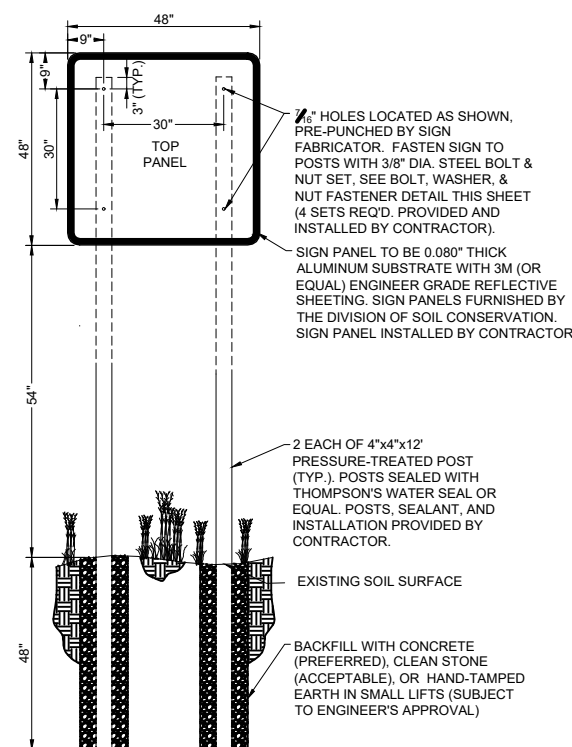
**A4** TYPICAL CORE TRENCH SECTION  
NOT TO SCALE



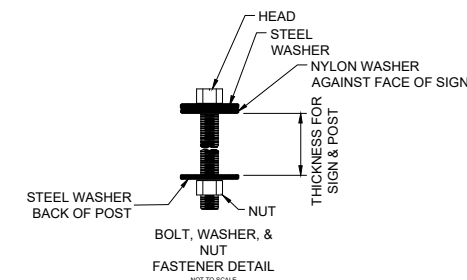
**D1** FIELD TILE REPAIR CONNECTION  
NOT TO SCALE



**D3** WAVE PROTECTION BENCH AT NWL  
NOT TO SCALE



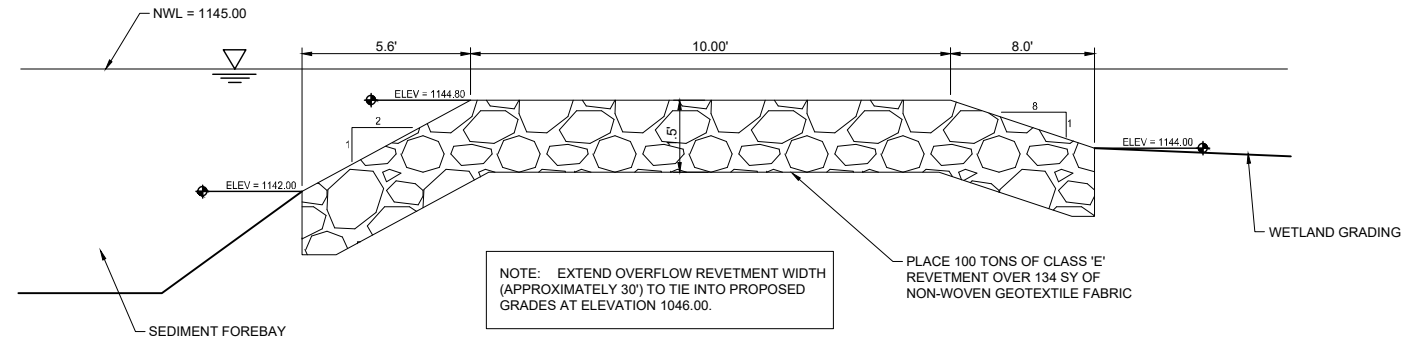
**D4** PROJECT SIGN  
NOT TO SCALE



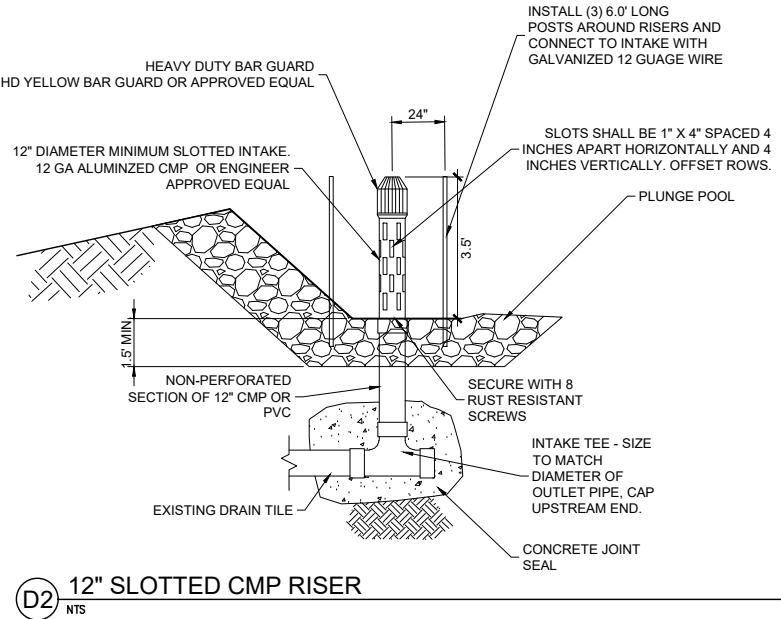
**SIGNAGE NOTES:**

- DIVISION WILL FURNISH SIGN PANEL. CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSTS, HARDWARE, AND INSTALLATION.
- ALL EXPOSED WOOD SHALL BE SEALED WITH THOMPSON'S WATER SEAL OR EQUAL MEETING ASTM D-4446-08.
- ALL STEEL HARDWARE PIECES SHALL BE GALVANIZED OR RUST RESISTANT.
- NYLON AND STEEL WASHERS SHALL BE USED AS SHOWN ON THE BOLT, WASHER, NUT FASTENER DETAIL ABOVE.
- CLEAR UTILITIES WITH IOWA ONE-CALL (800) 292-8989 BEFORE EXCAVATING FOR POSTS.
- SECURE DIVISION AND LANDOWNER APPROVAL FOR SIGN LOCATION BEFORE INSTALLATION.
- COSTS FOR POSTS, HARDWARE, WOOD SEALANT AND SIGN INSTALLATION SHALL BE INCIDENTAL TO MOBILIZATION.
- CONTRACTOR SHALL INSTALL SIGN POSTS USING A PLYWOOD OR OTHER SUITABLE TEMPLATE TO MAINTAIN ACCURATE POST SPACING AND ALIGNMENT DURING BACKFILLING OF THE POST HOLES. TO AVOID BENDING OF THE SIGN PANELS, POSTS SHALL NOT BE INSTALLED OR BACKFILLED WITH SIGN PANELS ATTACHED.
- ONE (1) PROJECT SIGN IS REQUIRED UNLESS NOTED OTHERWISE.

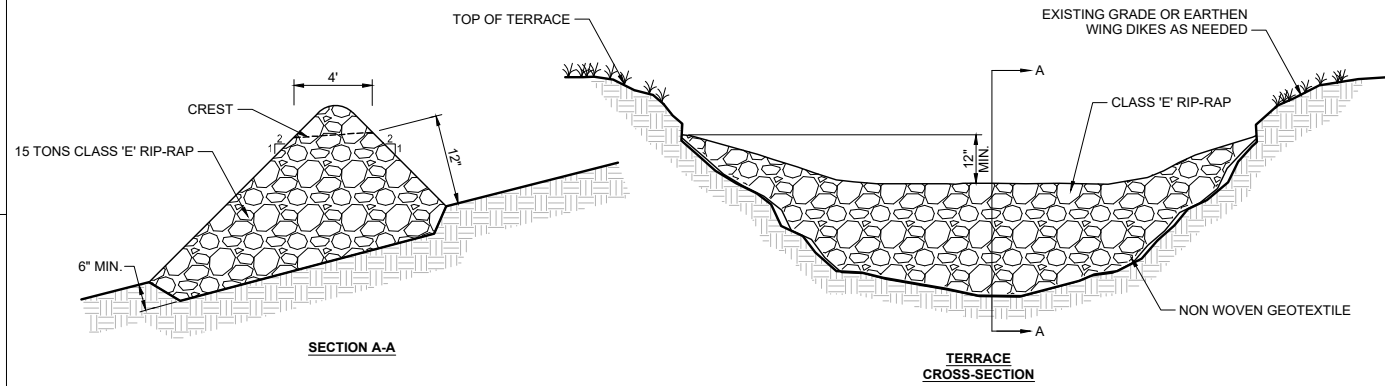
DRAWN:	DJJ
APPROVED:	DJJ
ISSUED FOR:	CONSTRUCTION
DATE:	2023.05.04
PROJECT NO.:	4213850
FIELD BOOK:	
CLIENT NO.:	GUT813130A



**A2** SEDIMENT FOREBAY SPILLWAY  
NOT TO SCALE



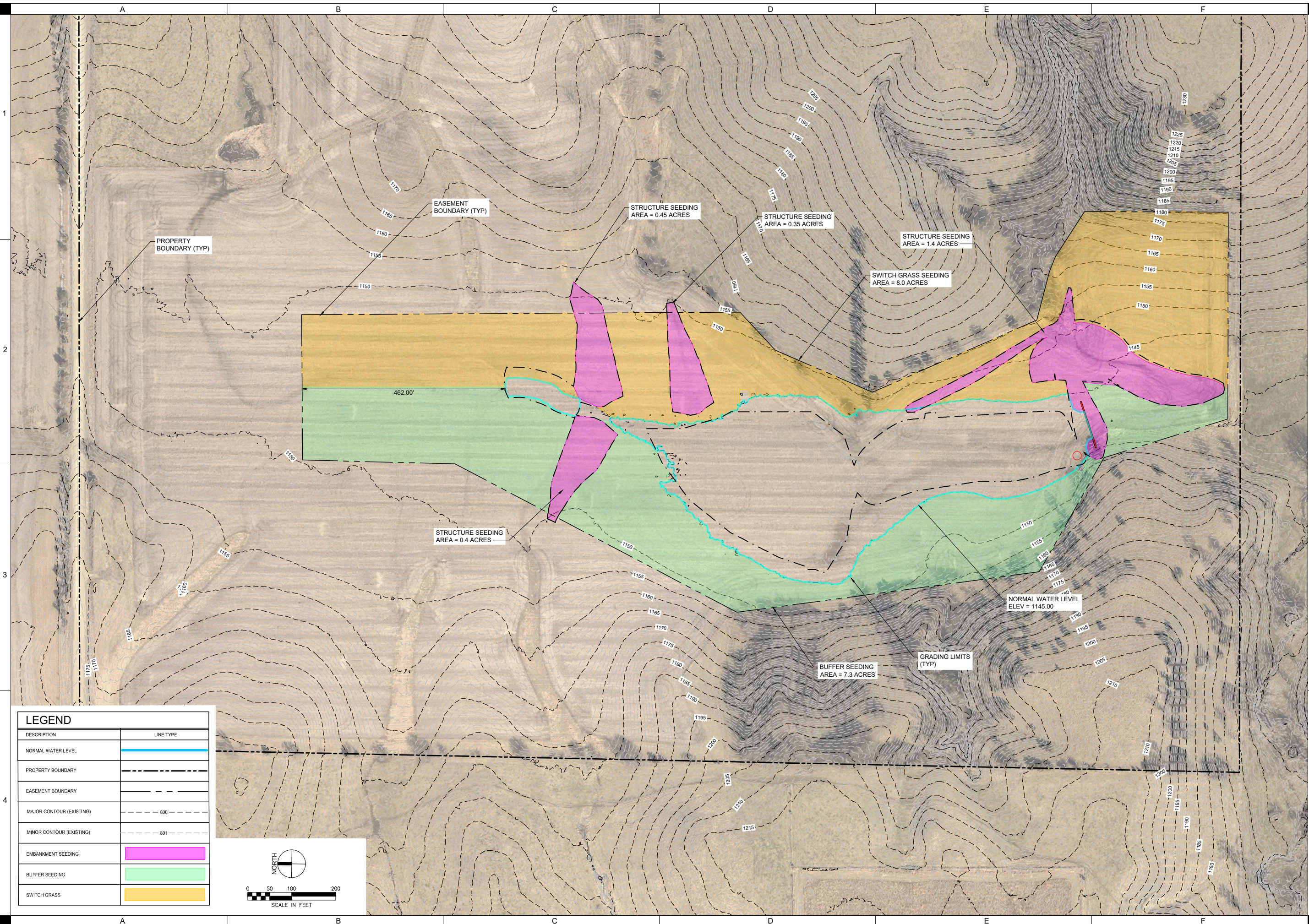
**D2** 12" SLOTTED CMP RISER  
NTS



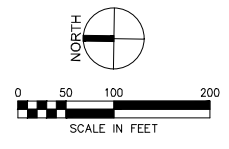
**A4** TERRACE ROCK CHECK  
NOT TO SCALE

DRAWN:	DJJ
APPROVED:	DJJ
ISSUED FOR:	CONSTRUCTION
DATE:	2023.05.04
PROJECT NO.:	4213850
FIELD BOOK:	—
CLIENT NO.:	GUT813130A

DRAWN:	CHK
APPROVED:	DJ
ISSUED FOR:	CONSTRUCTION
DATE:	2023.05.04
PROJECT NO.:	4213850
FIELD BOOK:	--
CLIENT NO.:	GUT813130A



LEGEND	
DESCRIPTION	LINE TYPE
NORMAL WATER LEVEL	
PROPERTY BOUNDARY	
EASEMENT BOUNDARY	
MAJOR CONTOUR (EXISTING)	800
MINOR CONTOUR (EXISTING)	801
EMBANKMENT SEEDING	
BUFFER SEEDING	
SWITCH GRASS	



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