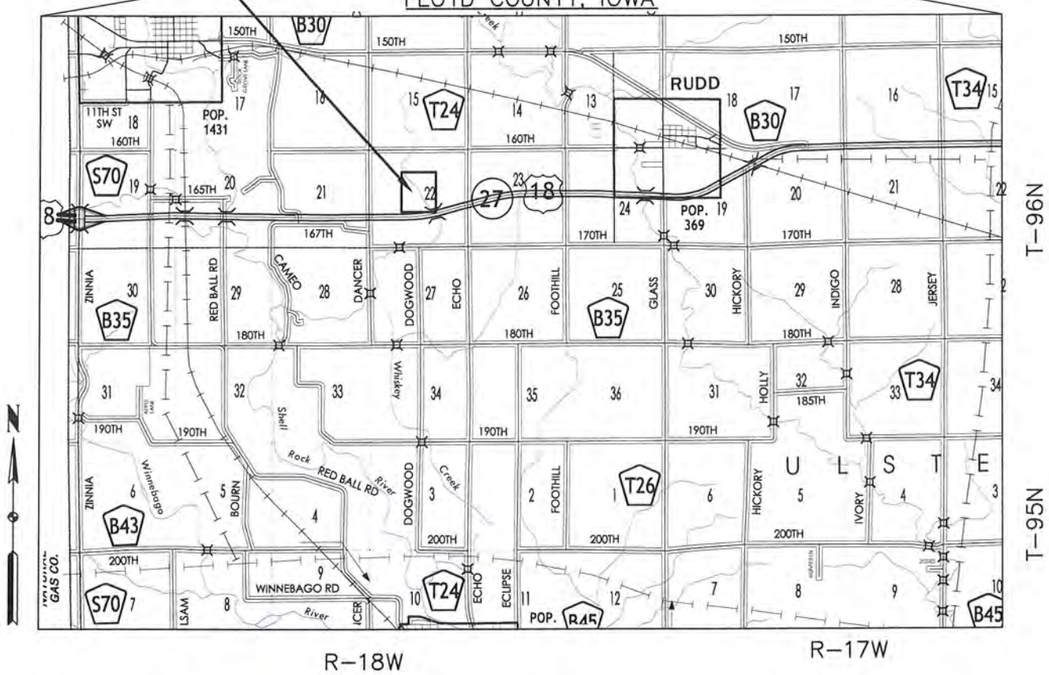
CREP WETLAND PROJECT
FL0961822D
FLOYD COUNTY, IOWA

IOWA

PROJECT LOCATION

FLOYD COUNTY, IOWA



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PROJECT PARTNERS

IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP

USDA

GENERAL NOTES

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER OF THESE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND SURVEYS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

IOWA ONE CALL
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www.iowaonecall.com
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REVISIONS

NO.	DATE	DESCRIPTION
1	9/16/14	ISSUED FOR PERMIT REVIEW
2	1/21/15	ISSUED FOR BID LETTING

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
Nathan W. Anderson
License Number 18920
My license renewal date is December 31, 2015
Pages or sheets covered by this seal: All

LICENSED PROFESSIONAL ENGINEER NATHAN W. ANDERSON 18920 IOWA

TITLE SHEET
CREP WETLAND FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET A-1

GENERAL PROJECT INFORMATION		
Drainage Area	1084	Acres
Wetland Pool Area	14	Acres
Deep Water Area (>3 ft deep)	2.5	Acres
Normal Pool Elevation	1080	Feet
Average Pool Depth	2.1	Feet
Maximum Pool Depth	11	Feet
Pool Storage	28	Acre-Feet
Berm Elevation	1085	Feet
Berm Storage	181	Acre-Feet
Length of Berm	1020	Feet
Auxiliary Spillway Elevation	1083	Feet
Auxiliary Spillway Width	40	Feet
Weir Width	60	Feet
Drop Height	10	Feet
Time of Concentration	1.97	Hours
Weighted Runoff Curve Number	80	-----
25-year Storm Design Flow*	1185	CFS
50-year Storm Design Flow**	1458	CFS
100-year Storm Design Flow	1776	CFS
100-year Flood Surf. Elevation	1083.5	Feet

* PRINCIPAL SPILLWAY DESIGN STORM (24–HOUR)
** AUXILIARY SPILLWAY DESIGN STORM (24–HOUR)

ESTIMATED QUANTITIES OF WORK AND LIST OF SPECIFICATIONS

ITEM	DESCRIPTION	SPECIFICATION	UNIT QUANTITY	UNIT
1	SITE STRIPPING	IA-1	1	LS
2	TREE REMOVAL	IA-1	1	LS
3	STRUCTURE AND CHANNEL SEEDING	IA-6	2.5	AC
4	BUFFER SEEDING	IA-6	16.3	AC
5	MOBILIZATION	IA-8	1	LS
6	DRAIN TILE INVESTIGATION & REMOVAL	IA-9	4600	LF
7	SHEET PILING	IA-13	2828	SF
8	EXCAVATION (P)	IA-21	17300	CY
9	EARTHFILL (P)	IA-23	13200	CY
10	TOPSOILING (P)	IA-26	5800	CY
11	CORRUGATED POLYETHYLENE TUBING - 10 INCH	IA-46	546	LF
12	CORRUGATED POLYETHYLENE TUBING - 12 INCH	IA-46	1519	LF
13	CORRUGATED POLYETHYLENE TUBING - 18 INCH	IA-46	1151	LF
14	CORRUGATED METAL PIPE - 18"	CS-41	224	LF
15	DRAWDOWN STRUCTURE	IA-51	1	LS
16	RISER INLET STRUCTURE	IA-51	1	LS
17	STOP LOG STORAGE STRUCTURE	IA-51	1	LS
18	CMP TILE OUTLET PIPE - 10 INCH	IA-51	40	LF
19	CMP TILE OUTLET PIPE - 12 INCH	IA-51	20	LF
20	CMP TILE OUTLET PIPE - 18 INCH	IA-51	20	LF
21	ROCK RIPRAP	IA-61	800	TON
22	CONCRETE GROUT FOR RIPRIAP	IA-62	185	CY

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LEGEND AND QUANTITIES
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
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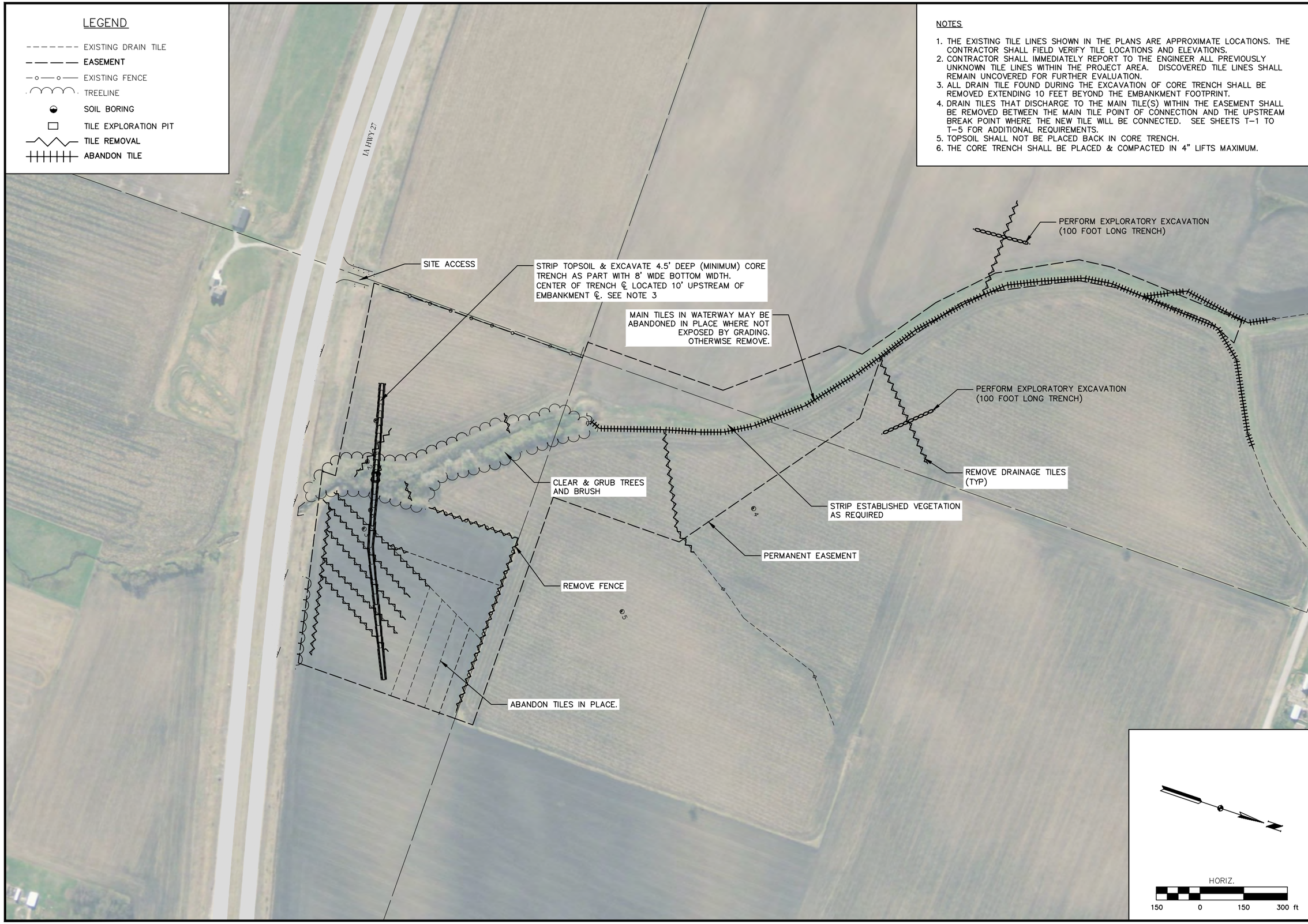
SHEET A–2

LEGEND

- EXISTING DRAIN TILE
- EASEMENT
- EXISTING FENCE
- TREELINE
- SOIL BORING
- TILE EXPLORATION PIT
- TILE REMOVAL
- ABANDON TILE

NOTES

1. THE EXISTING TILE LINES SHOWN IN THE PLANS ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL FIELD VERIFY TILE LOCATIONS AND ELEVATIONS.
2. CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ALL PREVIOUSLY UNKNOWN TILE LINES WITHIN THE PROJECT AREA. DISCOVERED TILE LINES SHALL REMAIN UNCOVERED FOR FURTHER EVALUATION.
3. ALL DRAIN TILE FOUND DURING THE EXCAVATION OF CORE TRENCH SHALL BE REMOVED EXTENDING 10 FEET BEYOND THE EMBANKMENT FOOTPRINT.
4. DRAIN TILES THAT DISCHARGE TO THE MAIN TILE(S) WITHIN THE EASEMENT SHALL BE REMOVED BETWEEN THE MAIN TILE POINT OF CONNECTION AND THE UPSTREAM BREAK POINT WHERE THE NEW TILE WILL BE CONNECTED. SEE SHEETS T-1 TO T-5 FOR ADDITIONAL REQUIREMENTS.
5. TOPSOIL SHALL NOT BE PLACED BACK IN CORE TRENCH.
6. THE CORE TRENCH SHALL BE PLACED & COMPACTED IN 4" LIFTS MAXIMUM.



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EXISTING CONDITIONS & REMOVALS
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
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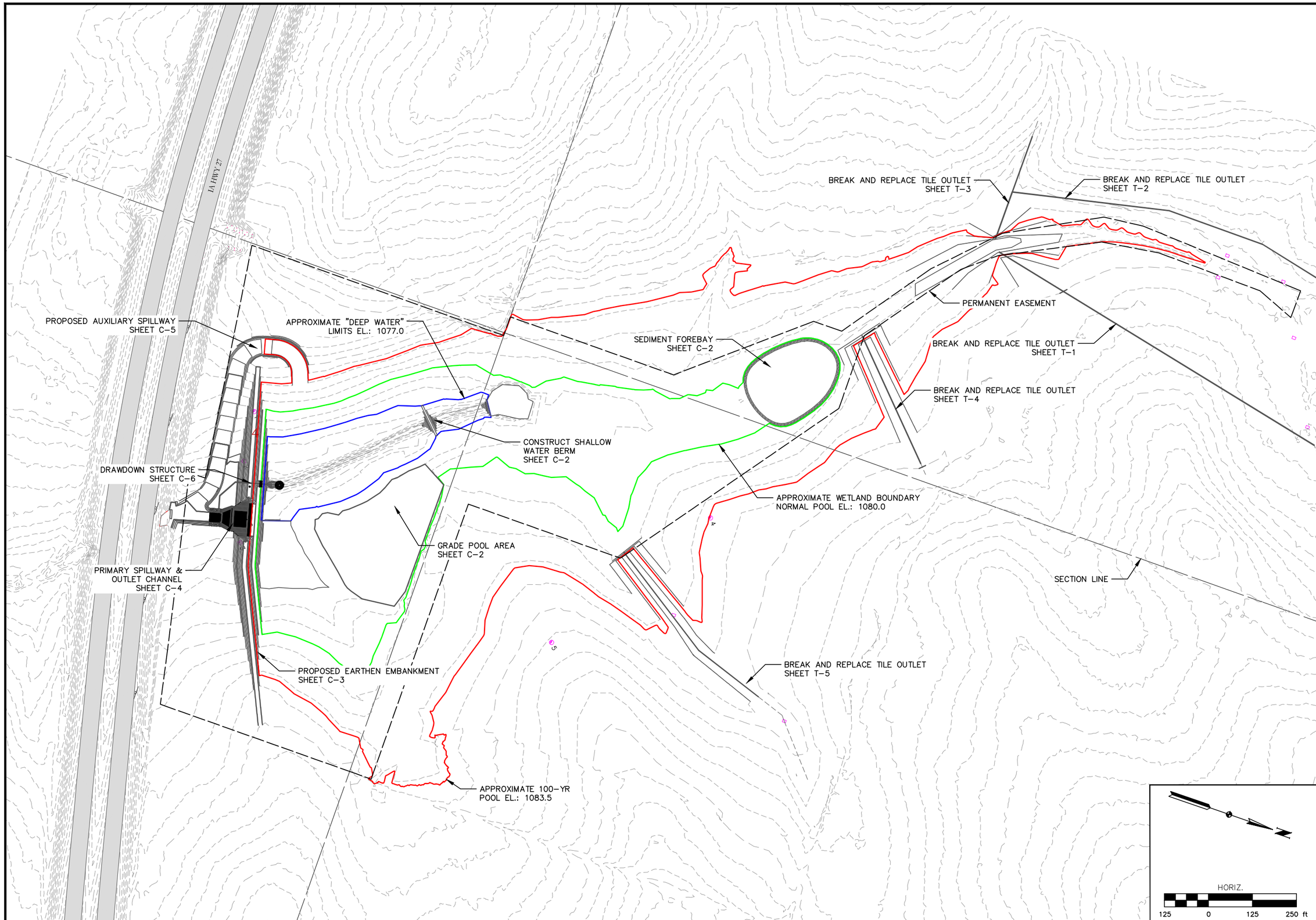
SHEET R-1



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PROJECT OVERVIEW SHEET
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
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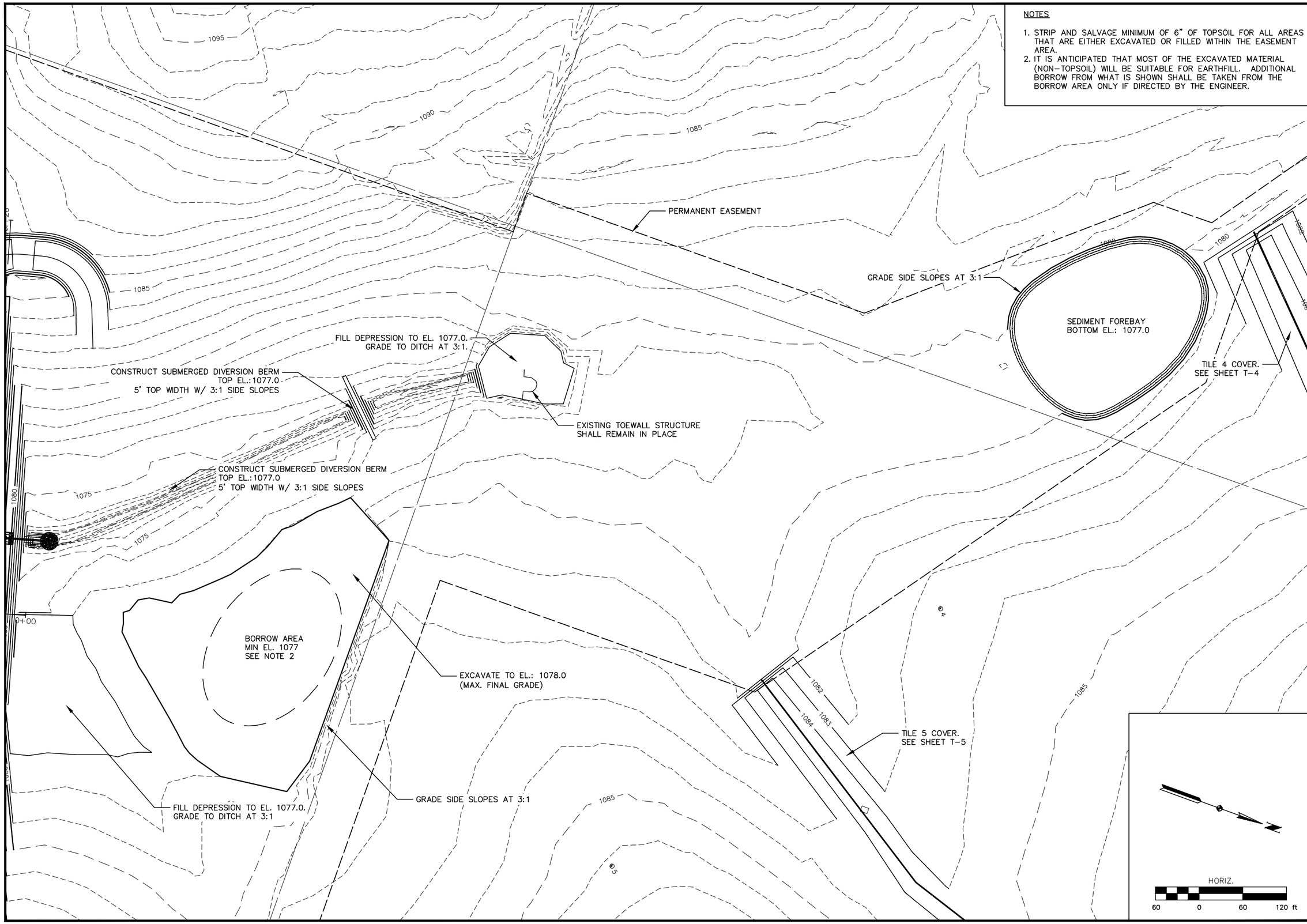
CHECKED BY: TAH
SHEET C-1

NOTES

1. STRIP AND SALVAGE MINIMUM OF 6" OF TOPSOIL FOR ALL AREAS THAT ARE EITHER EXCAVATED OR FILLED WITHIN THE EASEMENT AREA.
2. IT IS ANTICIPATED THAT MOST OF THE EXCAVATED MATERIAL (NON-TOPSOIL) WILL BE SUITABLE FOR EARTHFILL. ADDITIONAL BORROW FROM WHAT IS SHOWN SHALL BE TAKEN FROM THE BORROW AREA ONLY IF DIRECTED BY THE ENGINEER.



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POOL AREA GRADING PLAN
CREP WETLAND – FL0961822D
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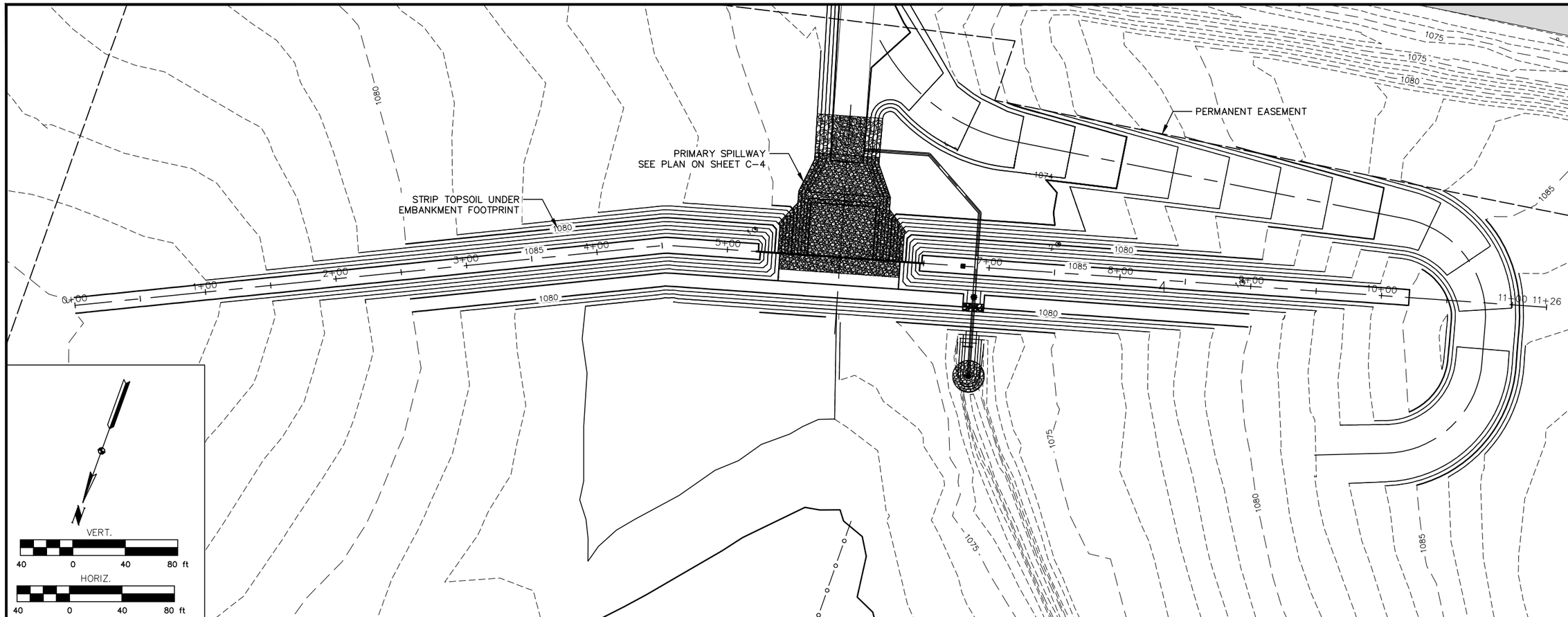
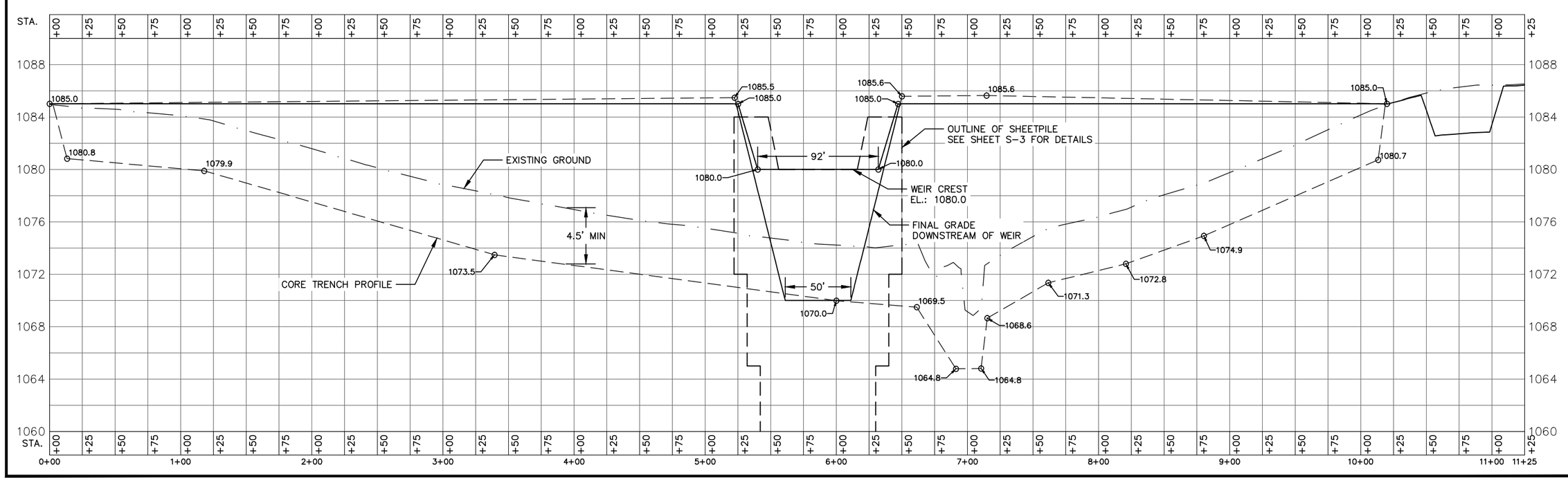
SHEET C-2





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EMBANKMENT PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
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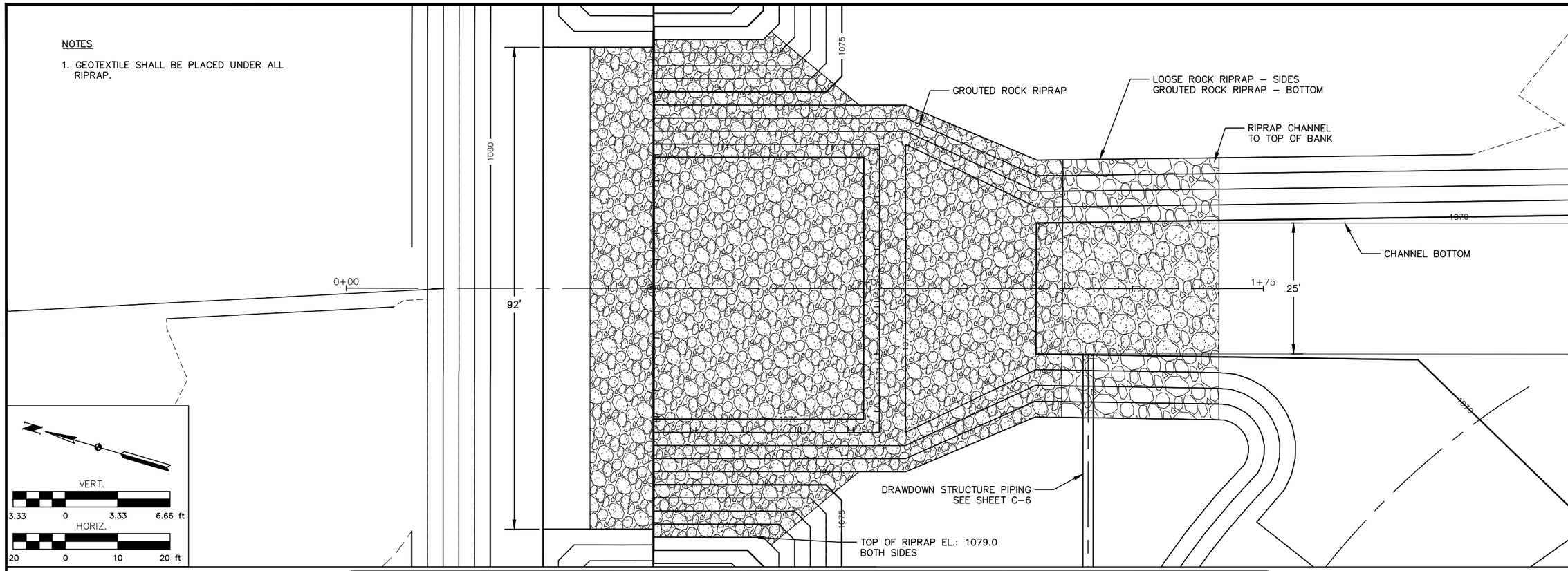
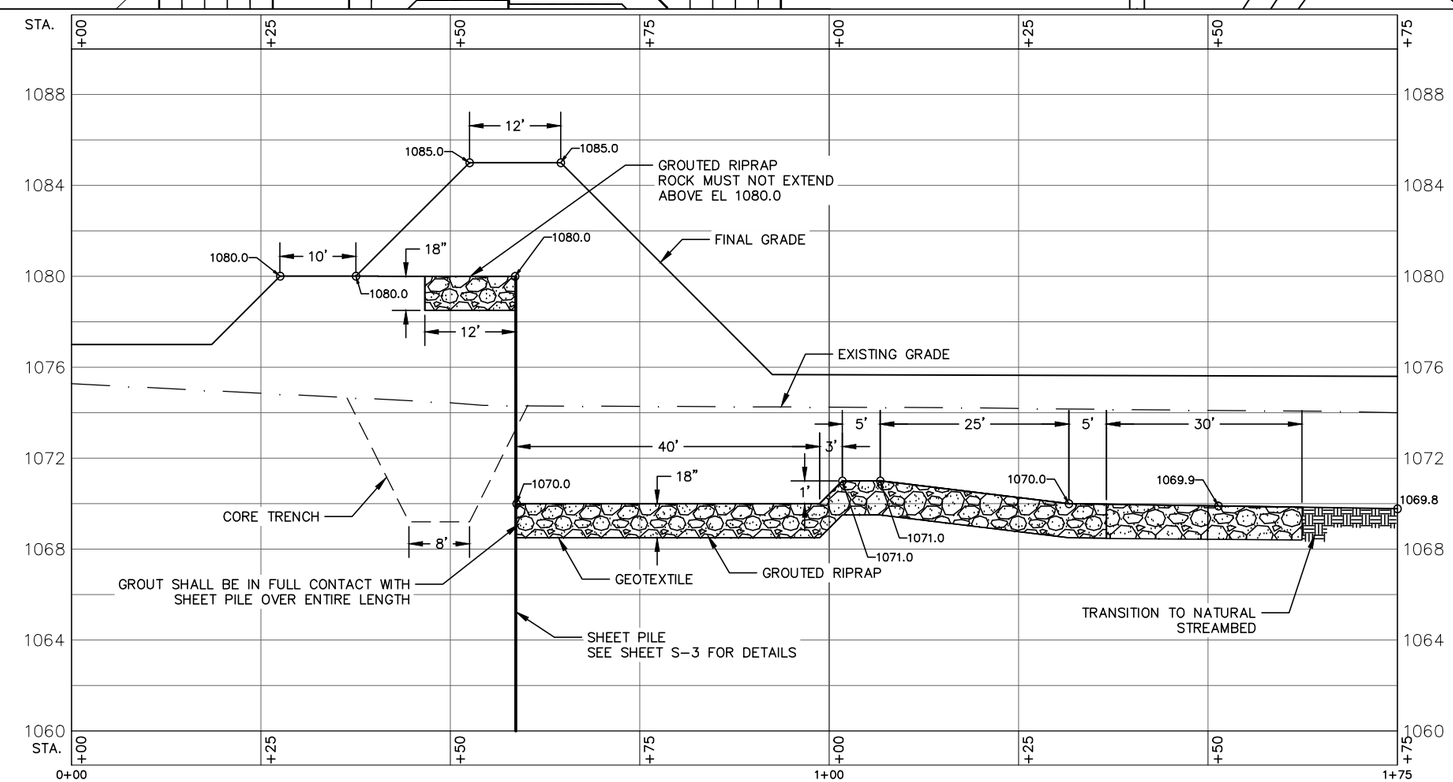
CHECKED BY: TAH
SHEET C-3

NOTES

1. GEOTEXTILE SHALL BE PLACED UNDER ALL RIPRAP.





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PRIMARY SPILLWAY PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
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DRAWN BY: NWA
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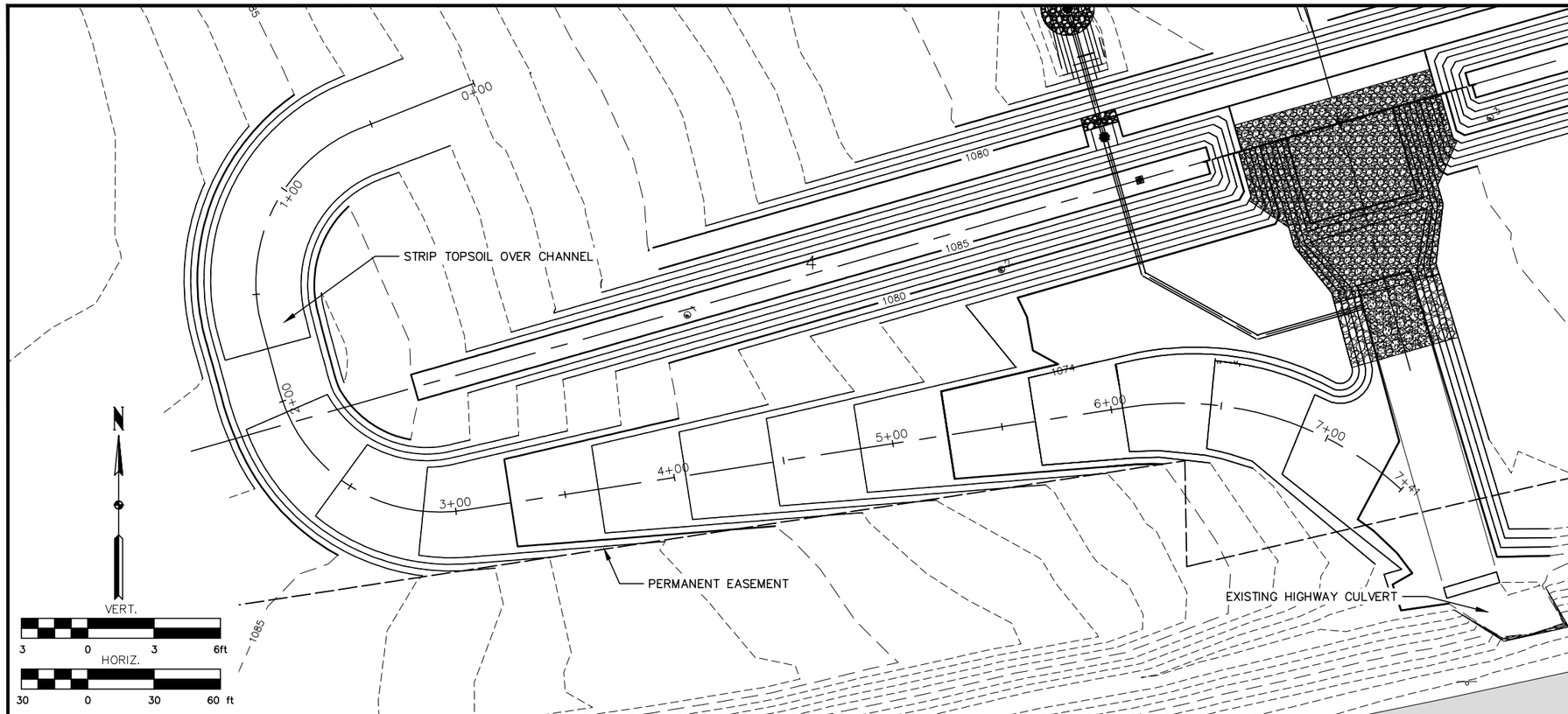
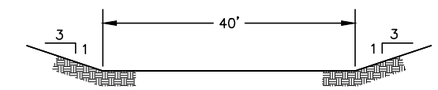
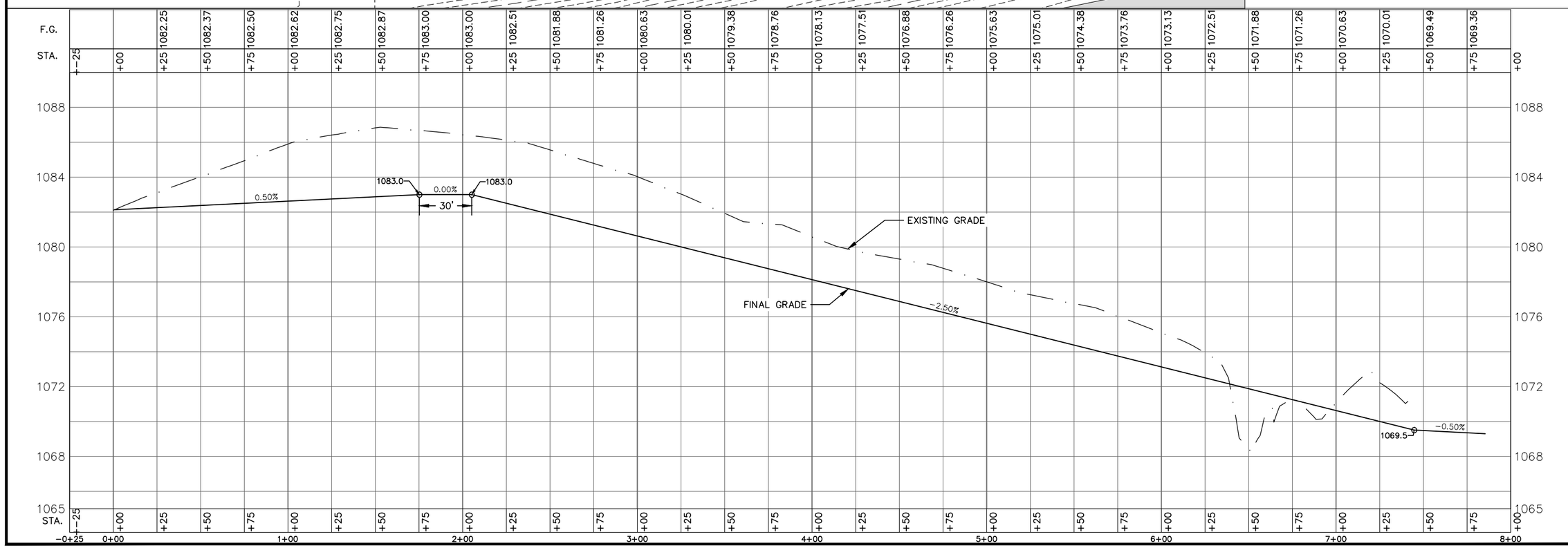
SHEET C–4





TYPICAL AUX. SPILLWAY SECTION
NOT TO SCALE



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AUXILIARY SPILLWAY PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

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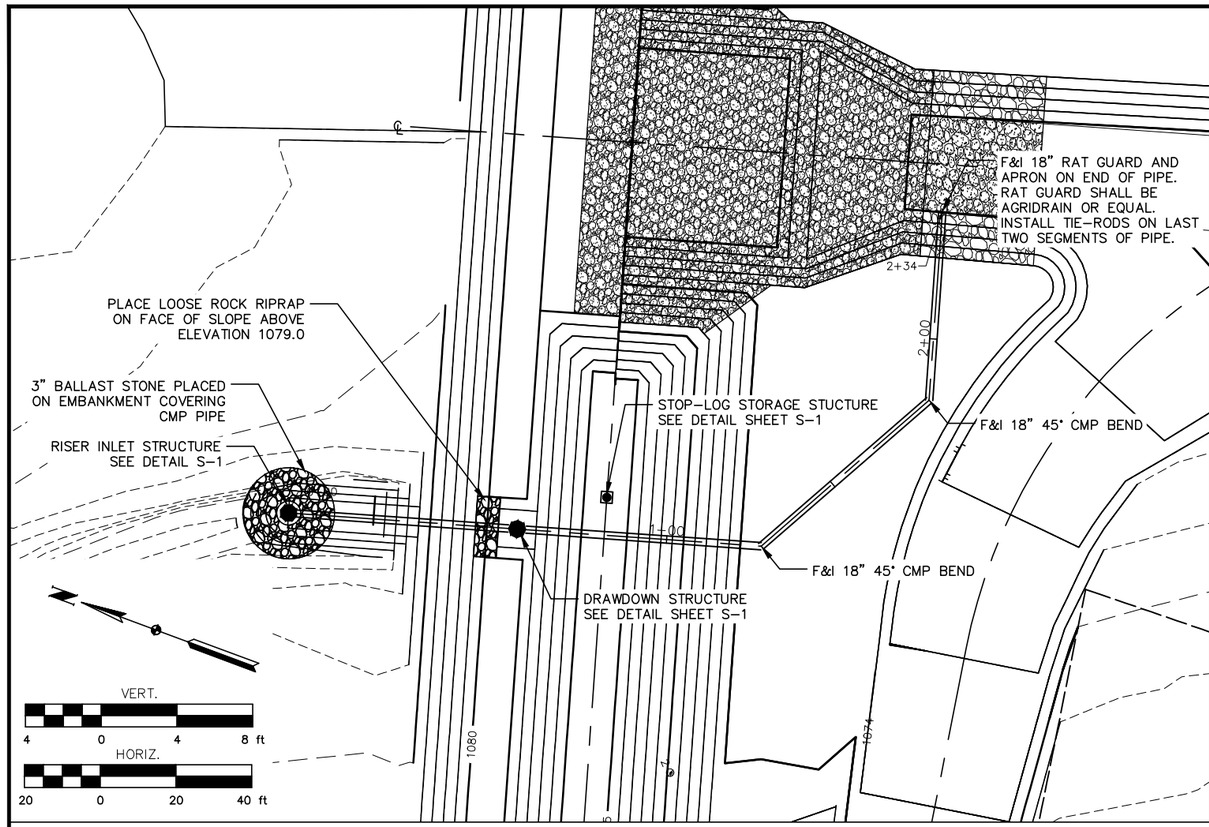
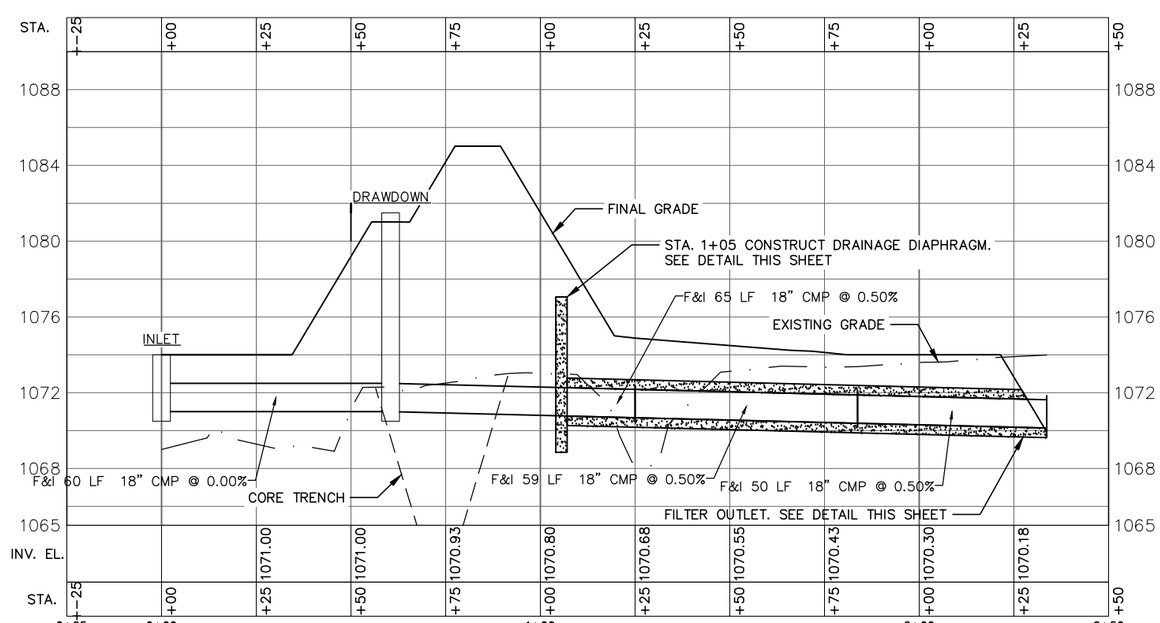
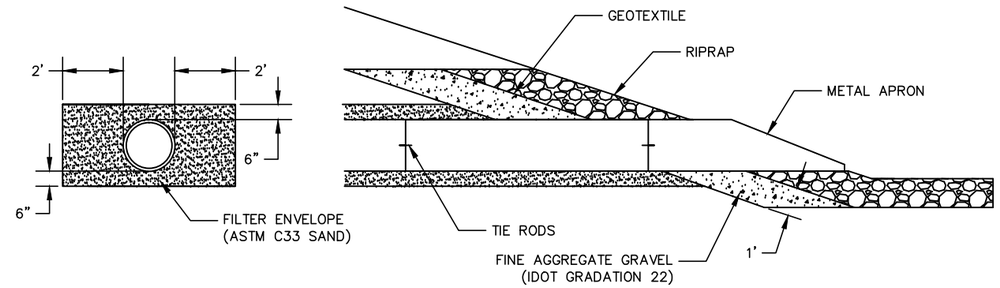
DRAWN BY: NWA
CHECKED BY: TAH
SHEET C-5







NOTES

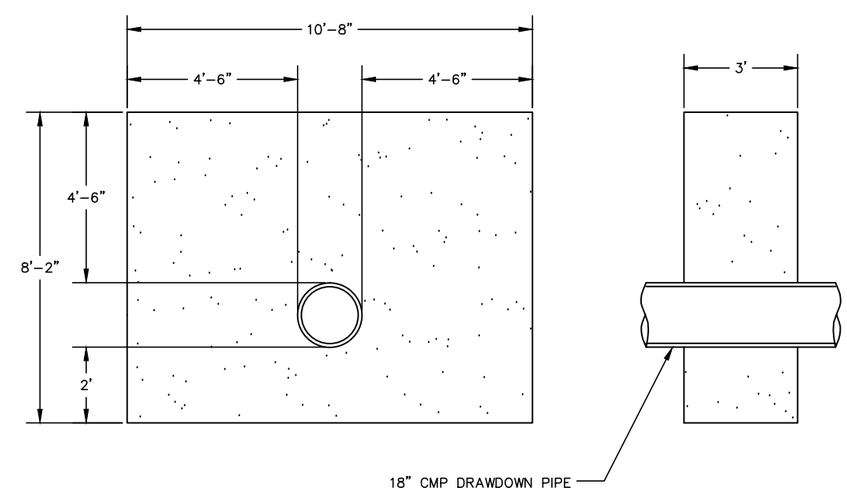
1. THE FILTER ENVELOP SHALL FULLY SURROUND THE OUTLET PIPE FROM THE FILTER DIAPHRAGM TO OUTLET.
2. EXTEND GRAVEL LAYER 1' BEYOND FILTER FACE IN ALL DIRECTIONS.

FILTER OUTLET DETAIL

NOT TO SCALE

NOTES

1. DRAINAGE DIAPHRAGM AND FILTER OUTLET MATERIAL SHALL BE ASTM C33 SAND.
2. FILTER MATERIAL SHALL BE PLACED IN 8" LIFTS MAXIMUM.



FILTER DIAPHRAGM DETAIL

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DRAW-DOWN STRUCTURE PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
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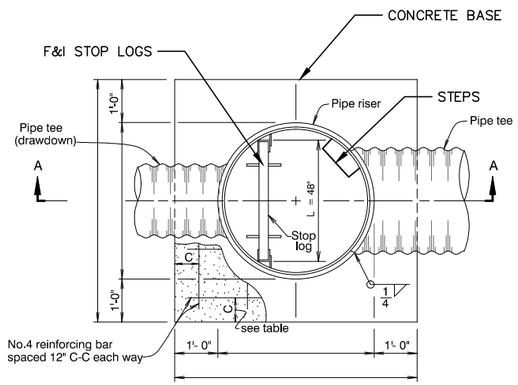
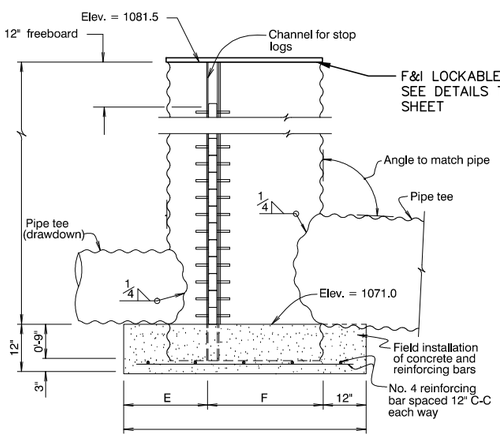
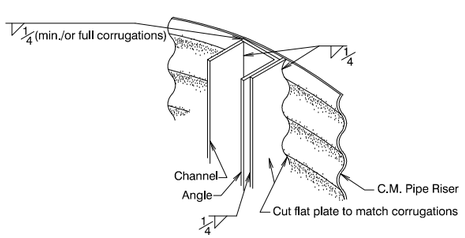
SHEET C-6



PLAN



SECTIONAL ELEVATION A-A
STOP LOG FLOW CONTROL- FULL RISER



CHANNEL INSTALLATION

NOTES

1. F&I 19, 6" DEEP STOP–LOGS, EXTENDING FROM INVERT EL. 1071.0 TO EL. 1080.5. STOP–LOGS SHALL BE FONTAINE SERIES 95–ALUMINUM, PLASTIFAB, OR EQUAL.
2. STOP–LOG SET LEVEL SHALL BE AS DIRECTED BY THE OWNER.
3. CONTRACTOR SHALL FURNISH 2 10–LONG LIFTING RODS. SEE SPECIFICATIONS.

REQUIREMENT TABLE

X IN BOX INDICATES THE REQUIREMENTS THAT APPLY TO STRUCTURE ▨ INDICATES - NOT APPLICABLE

CONCRETE: CLASS [ ] 3000 [ ] 3000M [X] 4000

CORRUGATED METAL PIPE RISER: 54 " DIA., 14 GA., 11.25 FT.
PIPE TEE: 18 " DIA., 14 GA., 4 FT. NOMINAL LENGTH, WELDED TO RISER
PIPE TEE (DRAWDOWN): 18 " DIA., 14 GA., 4 FT. NOMINAL LENGTH, WELDED TO RISER

	RISER	PIPE TEE	DRAWDOWN
PIPE CLASSIFICATION			
ANNULAR CORRUGATION	X	X	X
HELICAL CORRUGATION			
[ ] TYPE I, FULL CIRCULAR CROSS-SECTION FABRICATED			
[ ] TYPE II, THIS IS TYPE I PIPE WHICH HAS BEEN REFORMED INTO A PIPE ARCH HAVING APPROXIMATELY A FLAT BOTTOM	▨		▨
CORRUGATION REQUIREMENTS - NOMINAL SIZE (INCH)			
[X] 2 2/3 x 1/2	X	X	X
[ ] 3 x 1			
COATINGS AND FABRICATION			
SEE METAL PIPE REQUIREMENTS AND COUPLING BANDS SHEET			

FABRICATION AND INSTALLATION NOTES:

1. FOR FABRICATION OF RISERS ON HELICAL PIPE A FILLER STRIP MAY BE USED TO INSURE A WATERTIGHT SEAL BETWEEN THE RISER AND TEE.
2. WHEN MORE THAN ONE COATING IS CHECKED IN THE COLUMN BOXES EACH TYPE IS ACCEPTABLE BUT ONLY ONE TYPE OF COATING SHALL BE USED IN EACH INSTALLATION.
3. ALL WELDS AND HEAT AFFECTED AREAS ON GALVANIZED METAL TO BE TREATED IN ACCORDANCE WITH SPECIFICATIONS.
4. NO.4 REINFORCED BAR = 1/2" DIA. = 0.668 LB. PER LIN. FT.
5. ALL SEAMS CUT, DUE TO FABRICATING IN HELICAL PIPE, SHALL BE WELDED FOR A LENGTH OF 1" FROM THE EDGE OF THE CUT AND TREATED ACCORDING TO SPECIFICATIONS.
6. THE "L" DIMENSION OF THE RISER SHALL BE CHECKED PRIOR TO FABRICATION OF THE STRUCTURAL TUBING LENGTH.
7. THE LOCKABLE LID SHALL BE FABRICATED FROM CMP, AND CUT IN A CIRCULAR SHAPE TO FIT THE RISER. HOLES SHALL BE DRILLED THROUGH THE CORRUGATIONS TO PASS THE LOCKING BAR.

TABLE OF QUANTITIES FOR RISER BASES

ITEM	UNIT	QUANTITY
CONCRETE	CU.YDS.	
REINFORCED STEEL (RISER BASE ONLY)	LBS.	
FABRICATED CHANNEL, ____ FT.	LBS.	
2" x 4" x 3/16" STRUCTURAL TUBING STOP LOG NO. _____ LENGTH EACH _____	LIN.FT.	
1/2" ROUND BAR (STOPLOG LIFTING HOOK)	EACH	2

MATERIAL LIST FOR RISER CONCRETE BASE

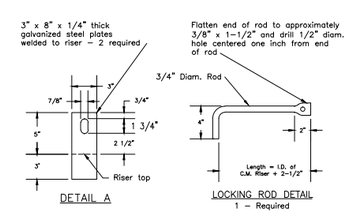
DIA. OF RISER IN INCHES	48	54	60	66	72	78
CONCRETE, CU.YDS.	1.33	1.56	1.81	2.08	2.37	2.68
NO. 4 REINFORCING BAR, LIN.FT.	66	84	91	112	120	144
LENGTH OF EACH BAR, FT.-IN.	5-6	6-0	6-6	7-0	7-6	8-0
TOTAL NUMBER OF BARS	12	14	14	16	16	18
TOTAL WEIGHT - NO. 4 BARS, LBS.	44.1	56.1	60.8	74.8	80.2	96.2

NO. 4 REINFORCING BAR = 1/2 IN. DIA. = 0.668 LBS./LIN.FT.

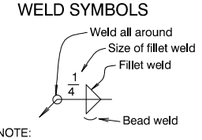
TABLE FOR DIMENSIONS

DIA. OF RISER IN INCHES	48	54	60	66	72	78
C SPACING IN INCHES	6	3	6	3	6	3
FOR L = 4' - 0"						
E SPACING IN FT/IN	3'-0"	2'-3"	2'-0"	1'-10"	1'-9"	1'-8"
F SPACING IN FT/IN	2'-0"	3'-3"	4'-0"	4'-8"	5'-3"	5'-10"
FOR L = 4' - 6"						
E SPACING IN FT/IN	3'-3"	2'-5"	2'-2"	2'-0"	1'-11"	
F SPACING IN FT/IN	2'-3"	3'-7"	4'-4"	5'-0"	5'-7"	
FOR L = 5' - 0"						
E SPACING IN FT/IN	3'-6"	2'-7"	2'-4"	2'-2"		
F SPACING IN FT/IN	2'-6"	3'-11"	4'-8"	5'-4"		

LOCKING LID DETAILS



WELD SYMBOLS



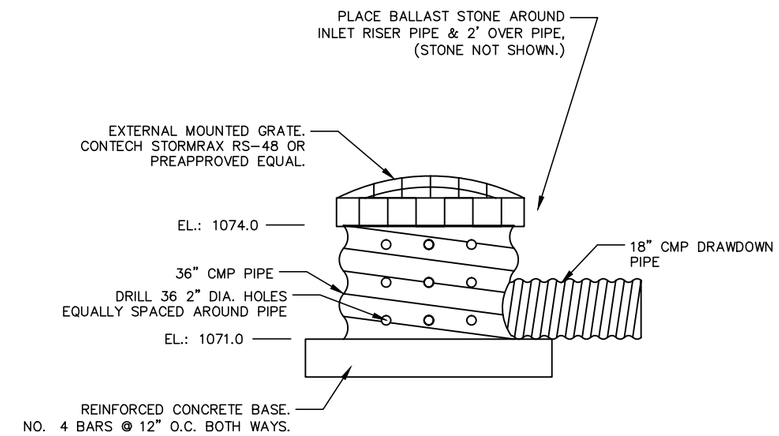
NOTE:
Weld symbol placed above line indicates weld is on opposite side of joint to which arrow points.

Weld symbol below line indicates weld is on side of joint to which arrow points.

* THIS PLAN ADAPTED FROM NRCS STANDARD DETAIL

DRAWDOWN STRUCTURE DETAIL

SCALE: NONE

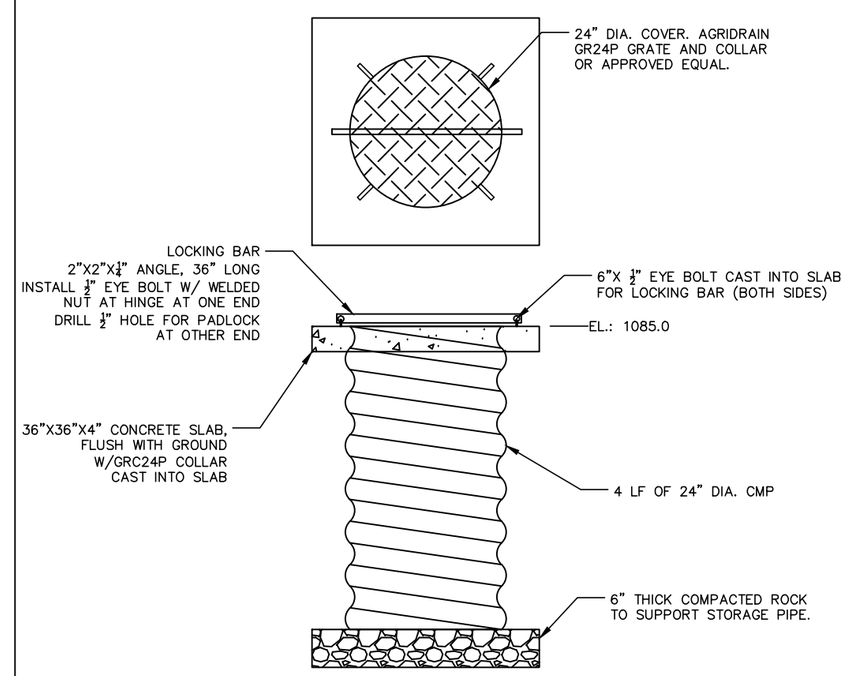


RISER INLET STRUCTURE DETAIL

NOT TO SCALE

NOTES

1. F&I 3 IDENTICALLY KEYED PADLOCKS WITH 4 KEYS.



STOP LOG STORAGE STRUCTURE DETAIL

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DRAWDOWN STRUCTURE DETAILS
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

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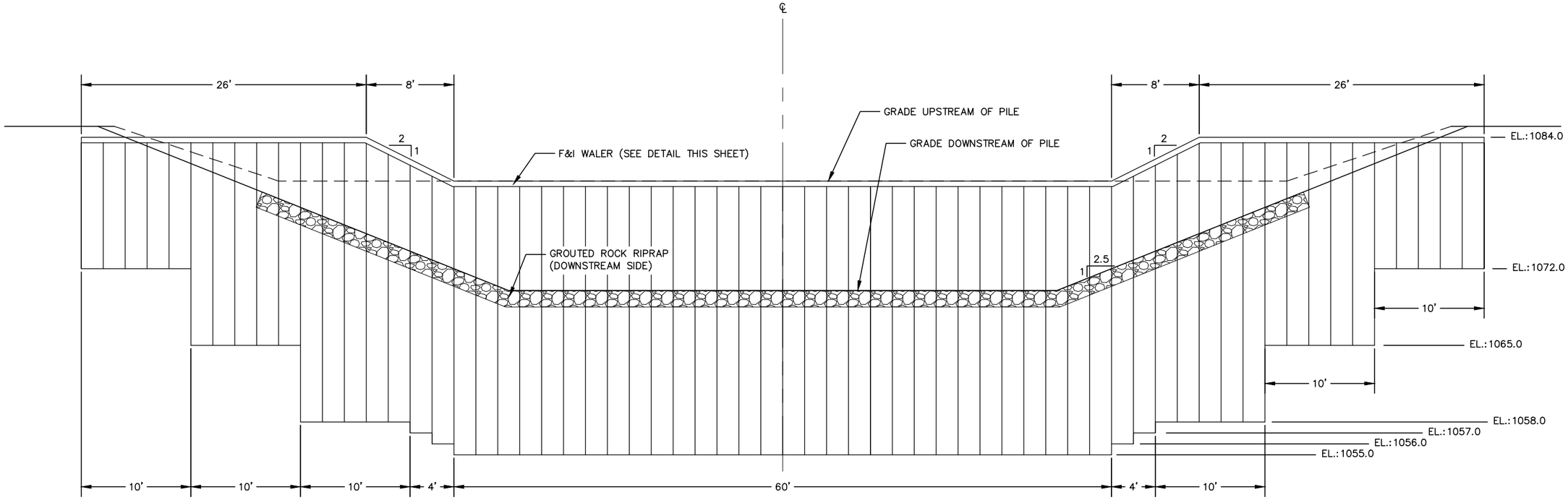
SHEET S–1

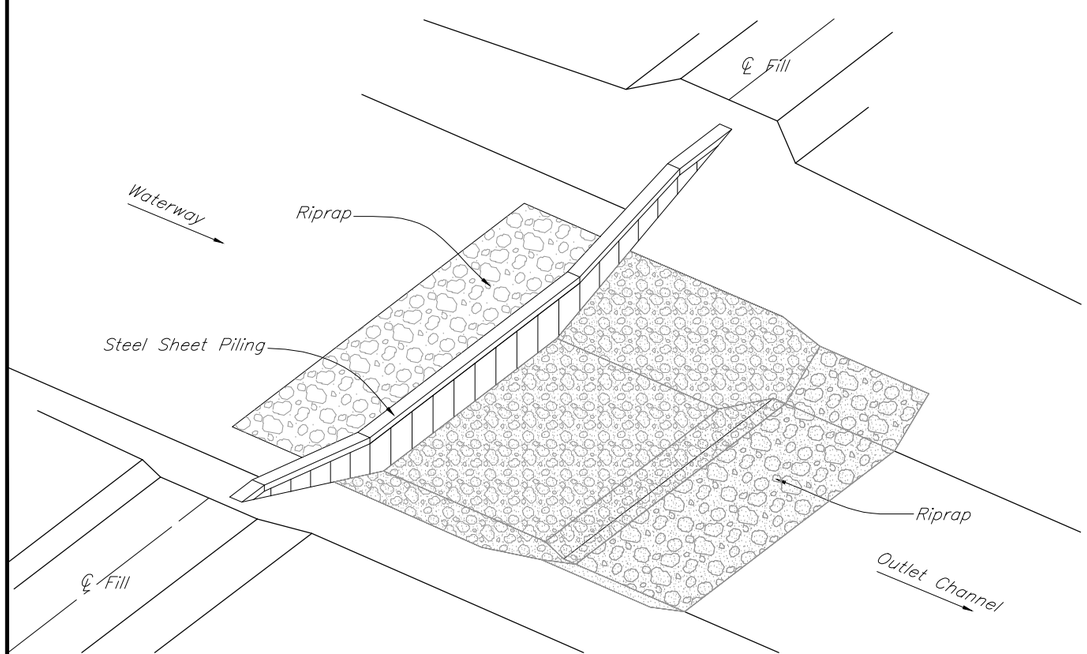


SHEET PILE SECTION

SCALE: 1"=5' (0 – 5)

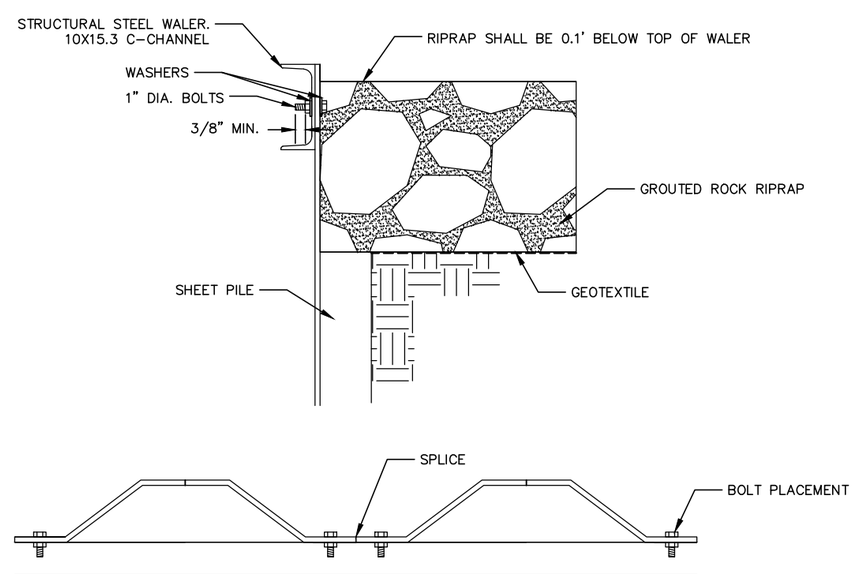
SHEETPILE DESIGN CRITERIA

MINIMUM SECTION MODULUS: 24 IN^3/FT
MINIMUM THICKNESS: 0.35 INCHES
MINIMUM MOMENT OF INERTIA: 140 IN^3/FT
MINIMUM GRADE STEEL: 36 KSI



ISOMETRIC VIEW

NOT TO SCALE



TYPICAL WALER DETAIL

NOT TO SCALE

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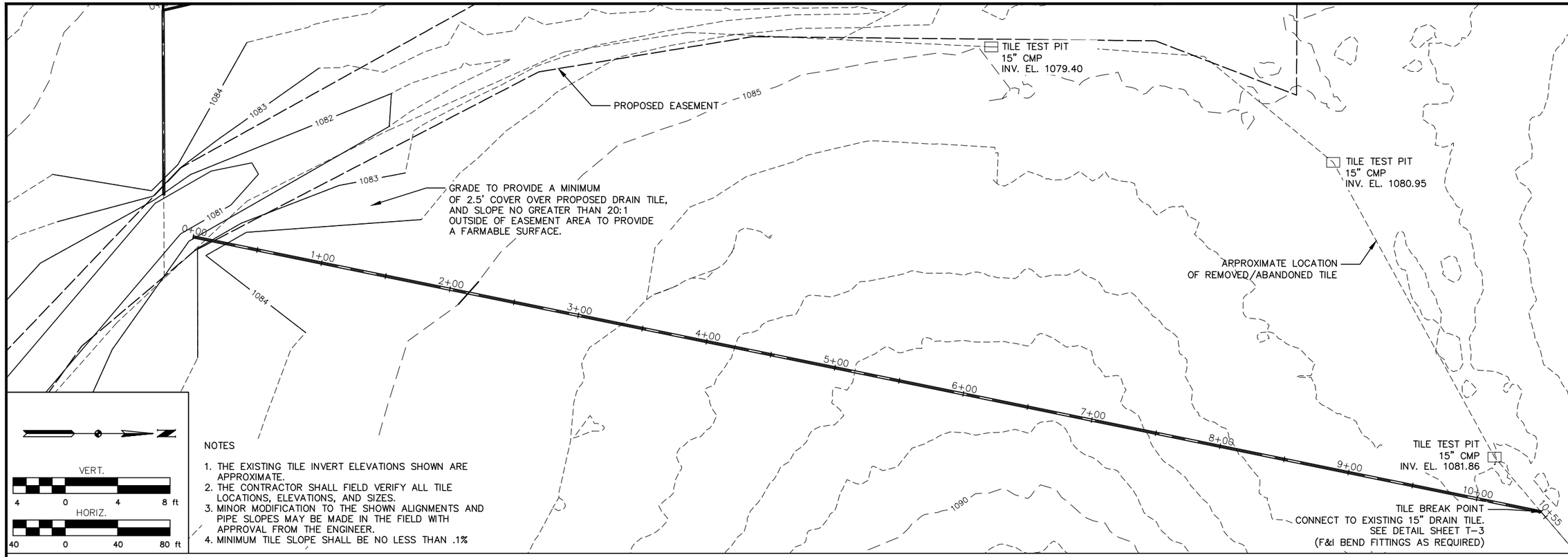
REVISIONS

NO.	DATE	

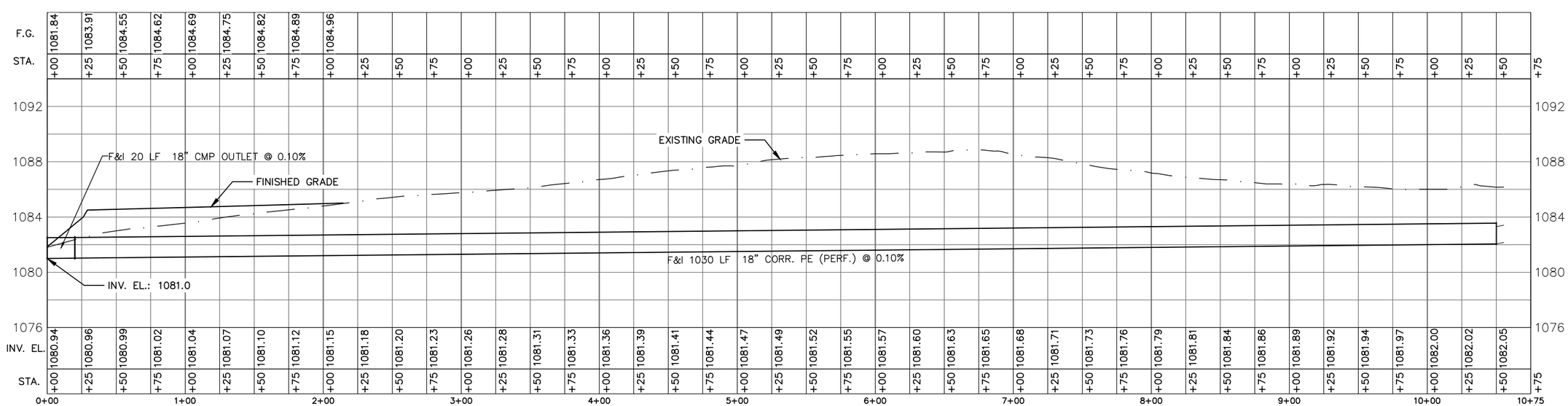
SHEET PILE SECTION & DETAILS
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE:	AS SHOWN
PROJECT NO.	7873
DRAWN BY:	NWA
CHECKED BY:	TAH
SHEET	S–2



NOTES

1. THE EXISTING TILE INVERT ELEVATIONS SHOWN ARE APPROXIMATE.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL TILE LOCATIONS, ELEVATIONS, AND SIZES.
3. MINOR MODIFICATION TO THE SHOWN ALIGNMENTS AND PIPE SLOPES MAY BE MADE IN THE FIELD WITH APPROVAL FROM THE ENGINEER.
4. MINIMUM TILE SLOPE SHALL BE NO LESS THAN .1%



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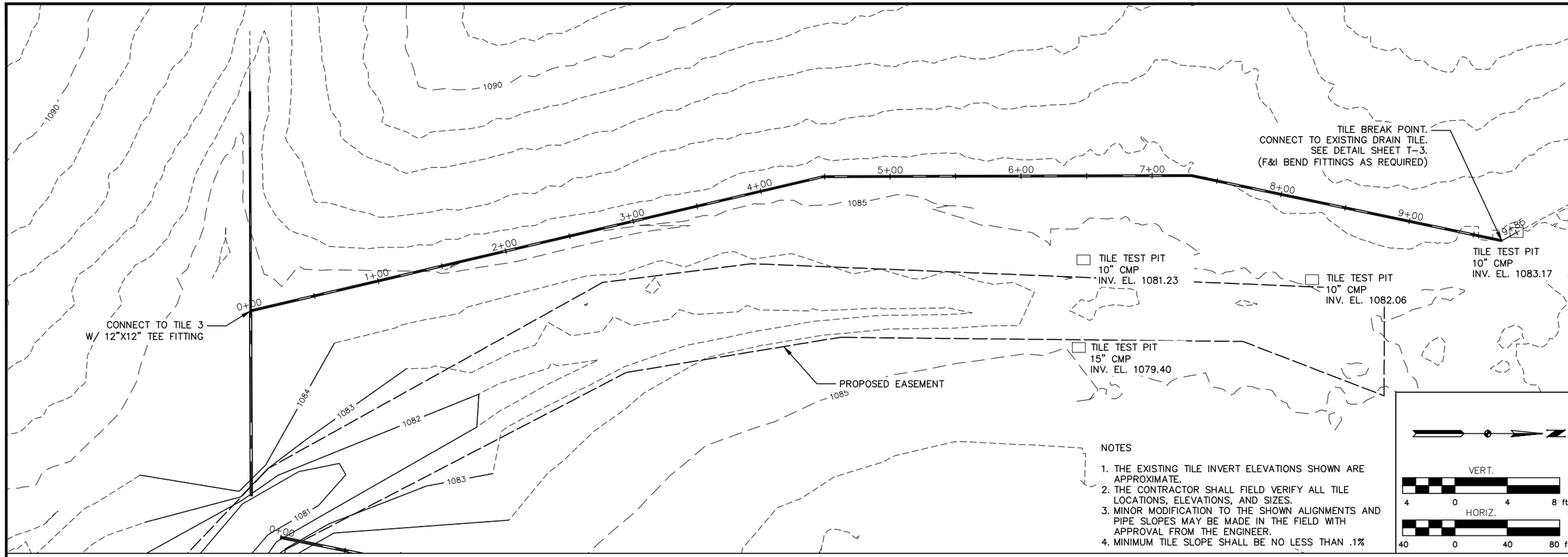
REVISIONS

NO.	DATE				

TILE NO. 1 PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET T–1



NOTES

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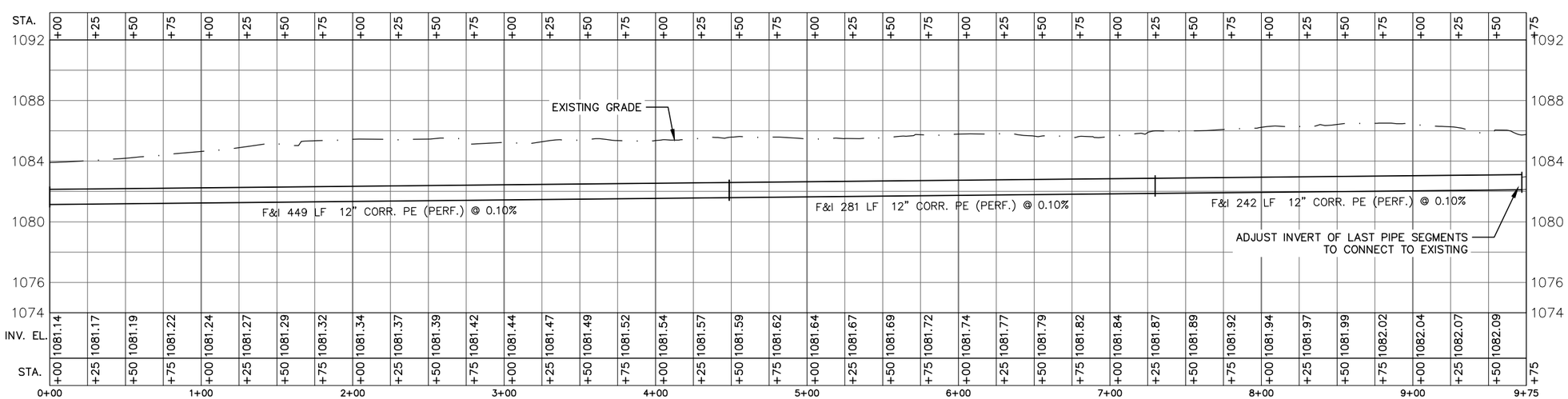

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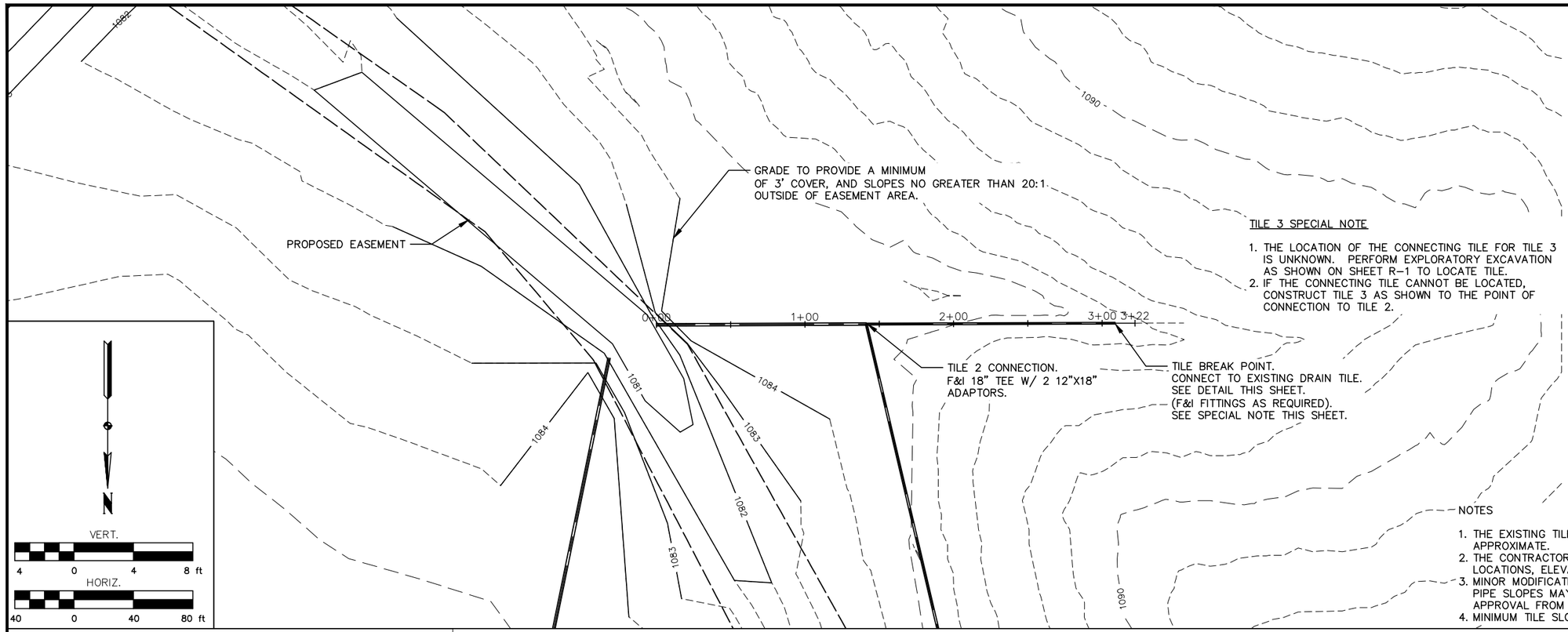
REVISIONS

NO.	DATE				

TILE NO. 2 PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET T–2

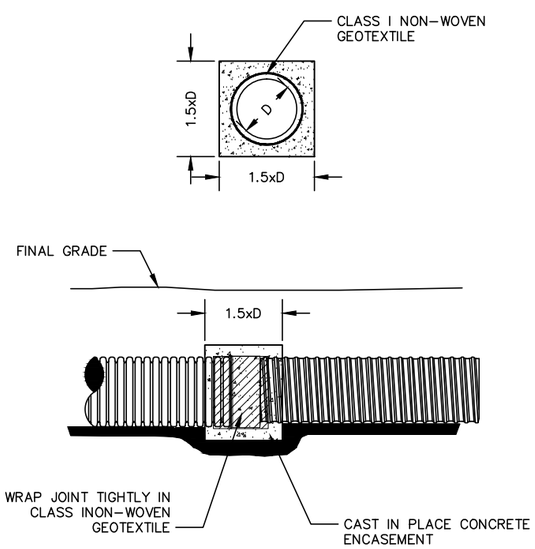


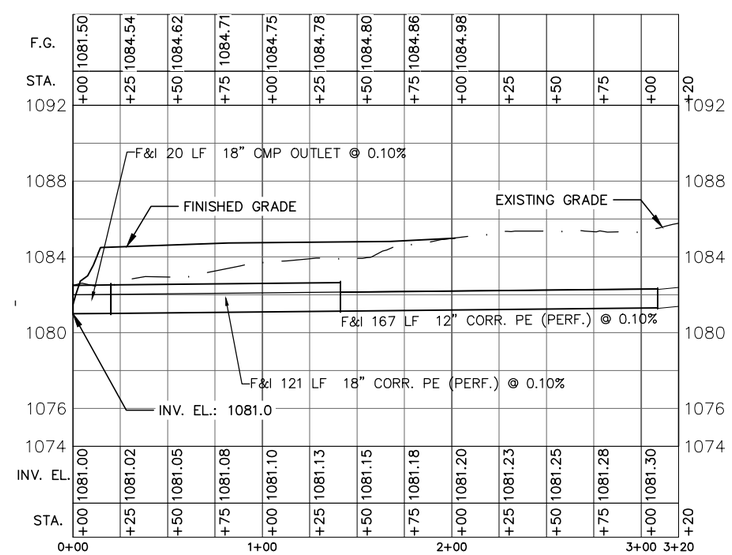
TILE 3 SPECIAL NOTE

1. THE LOCATION OF THE CONNECTING TILE FOR TILE 3 IS UNKNOWN. PERFORM EXPLORATORY EXCAVATION AS SHOWN ON SHEET R-1 TO LOCATE TILE.
2. IF THE CONNECTING TILE CANNOT BE LOCATED, CONSTRUCT TILE 3 AS SHOWN TO THE POINT OF CONNECTION TO TILE 2.

NOTES

1. THE EXISTING TILE INVERT ELEVATIONS SHOWN ARE APPROXIMATE.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL TILE LOCATIONS, ELEVATIONS, AND SIZES.
3. MINOR MODIFICATION TO THE SHOWN ALIGNMENTS AND PIPE SLOPES MAY BE MADE IN THE FIELD WITH APPROVAL FROM THE ENGINEER.
4. MINIMUM TILE SLOPE SHALL BE NO LESS THAN .1%





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FIELD TILE REPAIR JOINT DETAIL

REVISED: 2/01/08
SHEET: 3 OF 6
PLATE NO.

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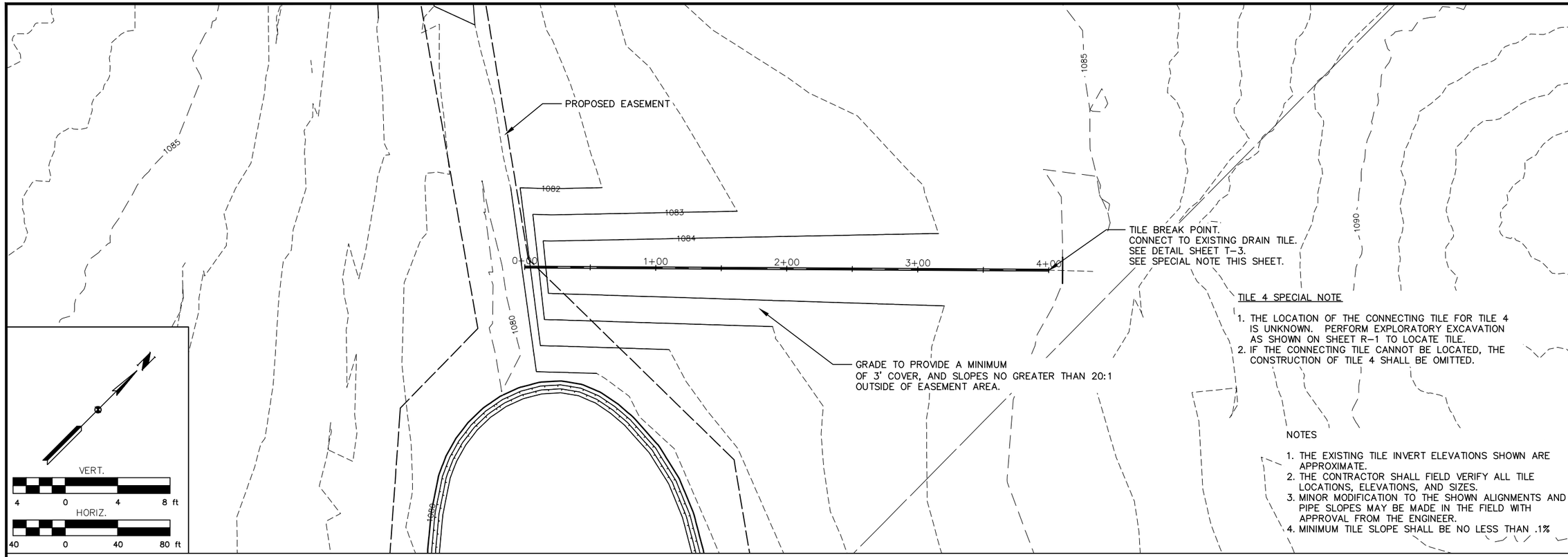
REVISIONS

NO.	DATE

TILE NO. 3 PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET T-3

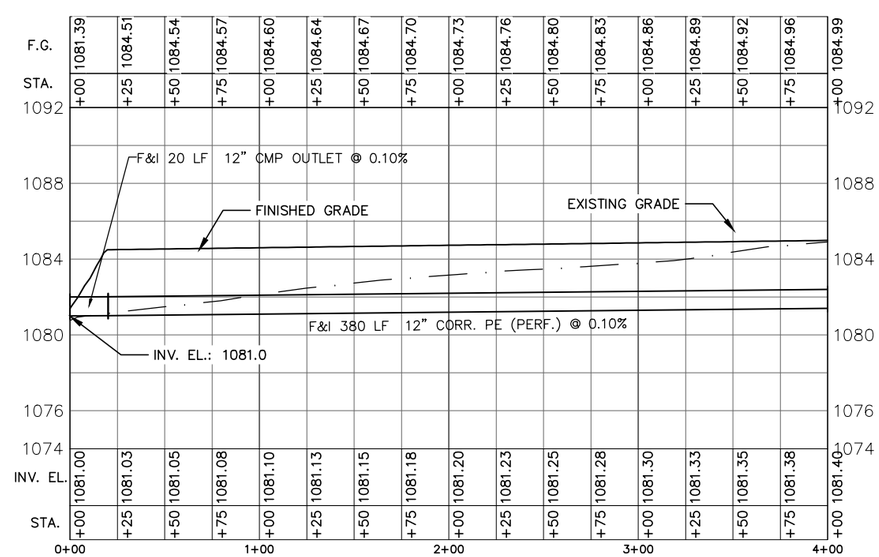


TILE 4 SPECIAL NOTE

1. THE LOCATION OF THE CONNECTING TILE FOR TILE 4 IS UNKNOWN. PERFORM EXPLORATORY EXCAVATION AS SHOWN ON SHEET R-1 TO LOCATE TILE.
2. IF THE CONNECTING TILE CANNOT BE LOCATED, THE CONSTRUCTION OF TILE 4 SHALL BE OMITTED.

NOTES

1. THE EXISTING TILE INVERT ELEVATIONS SHOWN ARE APPROXIMATE.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL TILE LOCATIONS, ELEVATIONS, AND SIZES.
3. MINOR MODIFICATION TO THE SHOWN ALIGNMENTS AND PIPE SLOPES MAY BE MADE IN THE FIELD WITH APPROVAL FROM THE ENGINEER.
4. MINIMUM TILE SLOPE SHALL BE NO LESS THAN .1%



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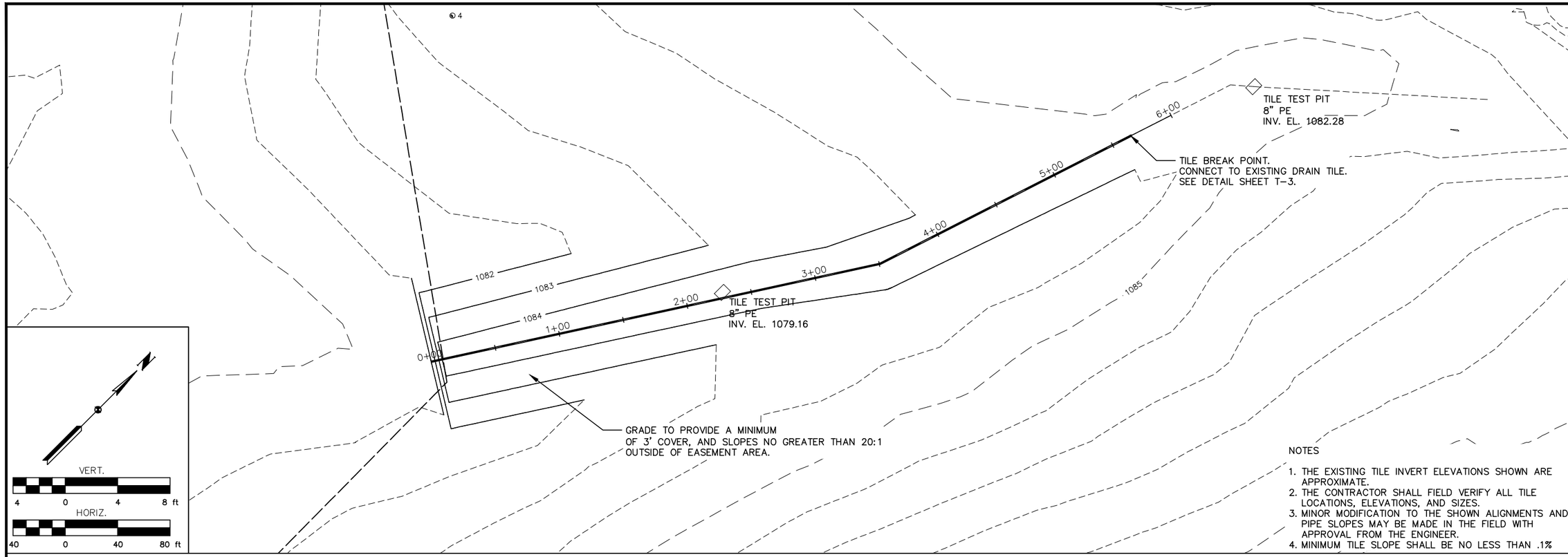
REVISIONS

NO.	DATE				

TILE NO. 4 PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET T-4



NOTES

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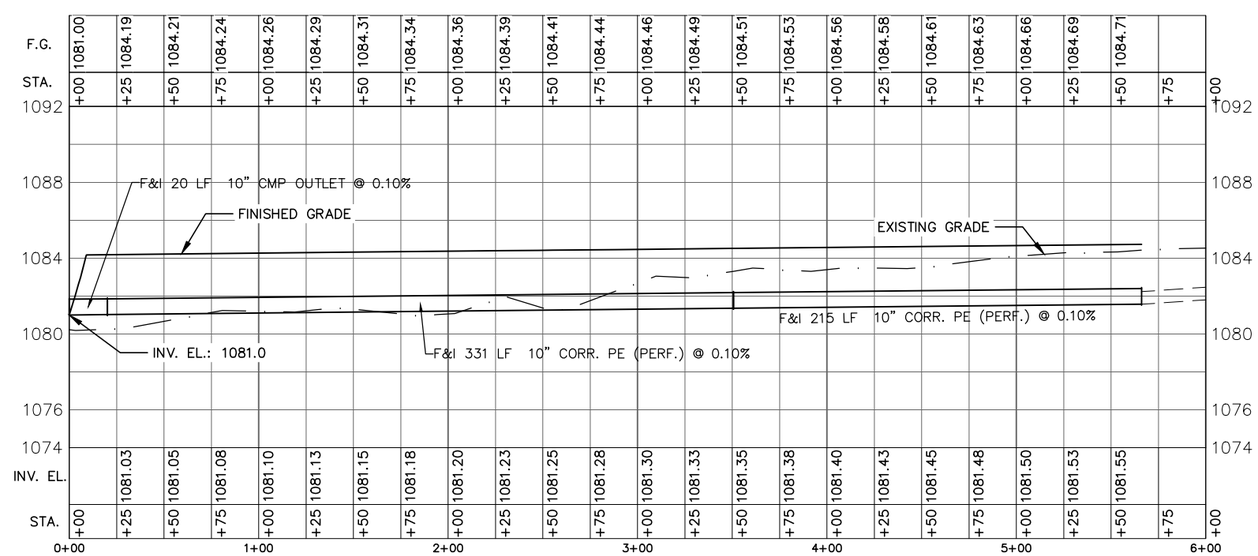
2. THE CONTRACTOR SHALL FIELD VERIFY ALL TILE LOCATIONS, ELEVATIONS, AND SIZES.
3. MINOR MODIFICATION TO THE SHOWN ALIGNMENTS AND PIPE SLOPES MAY BE MADE IN THE FIELD WITH APPROVAL FROM THE ENGINEER.
4. MINIMUM TILE SLOPE SHALL BE NO LESS THAN .1%



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REVISIONS

NO.	DATE

TILE NO. 5 PLAN & PROFILE
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET T-5

F&I ROCK CONSTRUCTION ENTRANCE

PLACE 4 INCHES OF TOPSOIL ON UPSTREAM FACE OF EMBANKMENT, DOWNSTREAM FACE ABOVE NORMAL POOL, AUXILIARY SPILLWAY AND ALL FILL AREAS OUTSIDE OF THE NORMAL POOL

SEED DISTURBED AREAS IN WATERWAY BROME SEED MIX, AS REQUIRED. (SOME AREAS NOT SHOWN)

PLACE 6 INCHES OF TOPSOIL ON ALL EXCAVATED & FILLED (HATCHED) AREAS ABOVE EL.: 1077.0 (INCLUDING TILE COVER FILL OUTSIDE OF EASEMENT)

F&I BIO-ROLL IN AUX SPILLWAY. (4 @ 50 LF EA)

SEED & MULCH EMBANKMENT AND CHANNEL AREAS BROME SEED MIX (3.0 ACRES)

F&I BIO-ROLL IN GROIN OF EMBANKMENT. (13 @ 25 LF EA)

F&I SILT FENCE (100 LF)

F&I SILT FENCE (175 LF)

IA HWY 27

NORMAL POOL (EL.: 1080.0)

100 YR POOL

PERMANENT EASEMENT

F&I EROSION STONE BELOW TILE OUTLETS (5 CY EA) (4 OUTLETS TOTAL – ALL NOT SHOWN ON THIS SHEET)

EXCESS TOPSOIL MAY BE WASTED IN THE ADJACENT FIELDS. TOPSOIL SHALL BE GRADED TO CREATE FARMABLE SURFACE.

LEGEND

- TOPSOIL PLACEMENT AREAS
- BROME SEED MIX (STRUCTURAL & CHANNEL SEEDING)
- BUFFER SEED MIX

NOTE

1. SEED MISCELLANEOUS DISTURBED AREAS INSIDE OF EASEMENT AND ABOVE EL. 1080.0 WITH BUFFER SEED MIX. INCLUDE NON-CHANNEL DISTURBED AREAS DOWNSTREAM OF EMBANKMENT.
2. DISTURBED AREAS OUTSIDE OF EASEMENT IN AGRICULTURAL AREAS SHALL NOT BE SEEDED.

HORIZ.

80 0 80 160 ft

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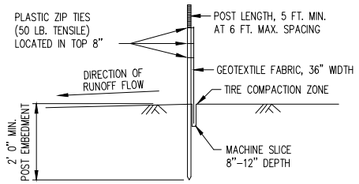
REVISIONS

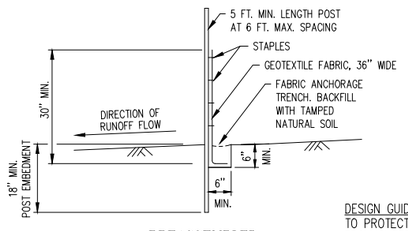
NO.	DATE				

SEEDING AND EROSION/SEDIMENT CONTROL PLAN
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET SP-1

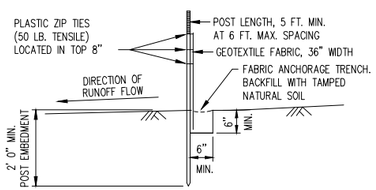


STANDARD MACHINE SLICED



PREASSEMBLED

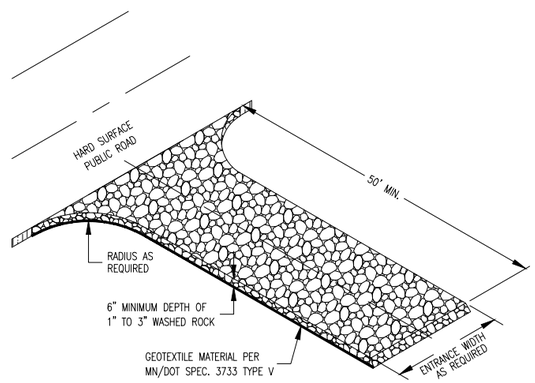
DESIGN GUIDELINES:
TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 1 ACRE



HEAVY DUTY
(HAND INSTALLED)

REFERENCE: MN/DOT SPEC. 3886

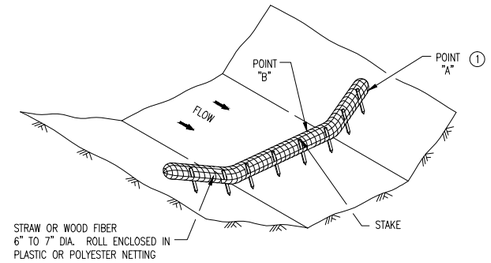
whks	SILT FENCE DETAILS	REVISED: 2/01/08 SHEET: 1 OF 1 PLATE NO. 7–01



MAINTENANCE (INCIDENTAL)

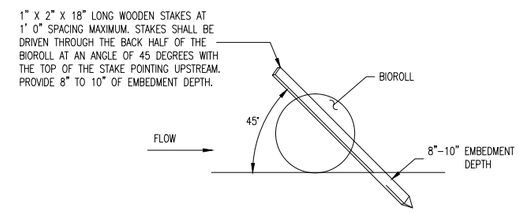
THE ROCK PAD SHALL BE MAINTAINED TO PREVENT THE TRACKING OF MUD ONTO PAVED ROADS, INCLUDING PERIODIC TOP DRESSING WITH ADDITIONAL ROCK OR REMOVAL AND REINSTALLATION OF THE PAD AS NECESSARY.

whks	TEMPORARY ROCK CONSTRUCTION ENTRANCE	REVISED: 2/01/08 SHEET: 1 OF 1 PLATE NO. 7–06



TYPE 2: BIOROLL DITCH CHECK

USE ON ROUGH GRADED AREAS



BIOROLL STAKING DETAIL

NOTES:
SEE SPECS. 2573, 3889.
SEE SHEET 1 FOR DITCH CHECK SPACING.
1 POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

whks	TEMP. SEDIMENT CONTROL BIO–ROLL	REVISED: 2/01/08 SHEET: 1 OF 1 PLATE NO. 7–03

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REVISIONS

NO.	DATE				

EROSION CONTROL DETAILS
CREP WETLAND – FL0961822D
FLOYD COUNTY, IOWA

SCALE: AS SHOWN
PROJECT NO. 7873
DRAWN BY: NWA
CHECKED BY: TAH
SHEET SP–2