

# FINAL ACCEPTANCE REPORT

## Faribault County Ditch 514 Branch S

18-21756  
February 15, 2021

REPORT FOR:  
Faribault County Drainage Authority  
415 S Grove St, Suite 8  
Blue Earth, MN 56013  
507-526-2300  
[Merissa.lore@co.faribault.mn.us](mailto:Merissa.lore@co.faribault.mn.us)

FROM:  
Mark Origer PE  
Civil Engineer  
ISG  
115 East Hickory Street, Suite 300  
Mankato, MN 56001  
507.387.6651  
[mark.origer@isginc.com](mailto:mark.origer@isginc.com)

ISG

February 15, 2021

Merissa Lore  
Faribault County Drainage Authority  
415 S Grove St, Suite 8

Re: Faribault County Ditch 514 Branch S Improvement

Drainage Authority,

The improvement to Faribault County Ditch No. 514 Branch S (Branch S) has been fully completed along with the wetland restoration impoundment. The project included abandoning and impounding portions of the Branch S and Branch S Improvement tile and restoring a 100-acre wetland on the Benz and Meyers Trust properties. Also included was a reroute and daylight of the upstream Branch S tile into the wetland basin. This reroute was petitioned for improvement to increase the 24-inch tile to a 30-inch tile meeting the industry standard 0.50-inch per day drainage coefficient.

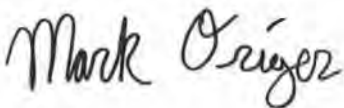
A major alignment change from the original design plans for CD 514 Branch S occurred during the wetland construction in the summer of 2020. The private tile serving the upstream Meyer's Trust properties was found to be much deeper than anticipated. This caused a longer reroute for the private main and also changed the alignment for the Branch S tile. The wetland basin was excavated farther south than planned which shorten the length of pipe required for the Branch S tile reroute. Overall, the wetland is slightly larger/deeper and the Branch S tile is shorter. This was discussed at the FER hearing in July of 2020.

The contractor selected by bid solicitation was Leland Drainage and Excavating from Bricelyn who has completed 100% of the improvement project. The cost estimate for construction including contingency, from the Final Engineering Report was \$50,361. The final contract price paid to the contractor was \$37,379. Loren Benz was also paid \$320 for seeding the area on top of the Branch S tile that was disturbed during construction.

The As-built Drawings, total completed quantities, and contractor invoices have been included. Also included are several photos from construction.

Please feel free to contact us with any questions.

Sincerely,

A handwritten signature in black ink that reads "Mark Origer". The signature is written in a cursive, flowing style.

Mark Origer, P.E.

Enclosure  
Attachment

Faribault County Ditch 514 Branch S

# APPENDIX A: As-Built Plans



# FARIBAULT COUNTY CD 514 BRANCH S

PILOT GROVE TWP, MINNESOTA

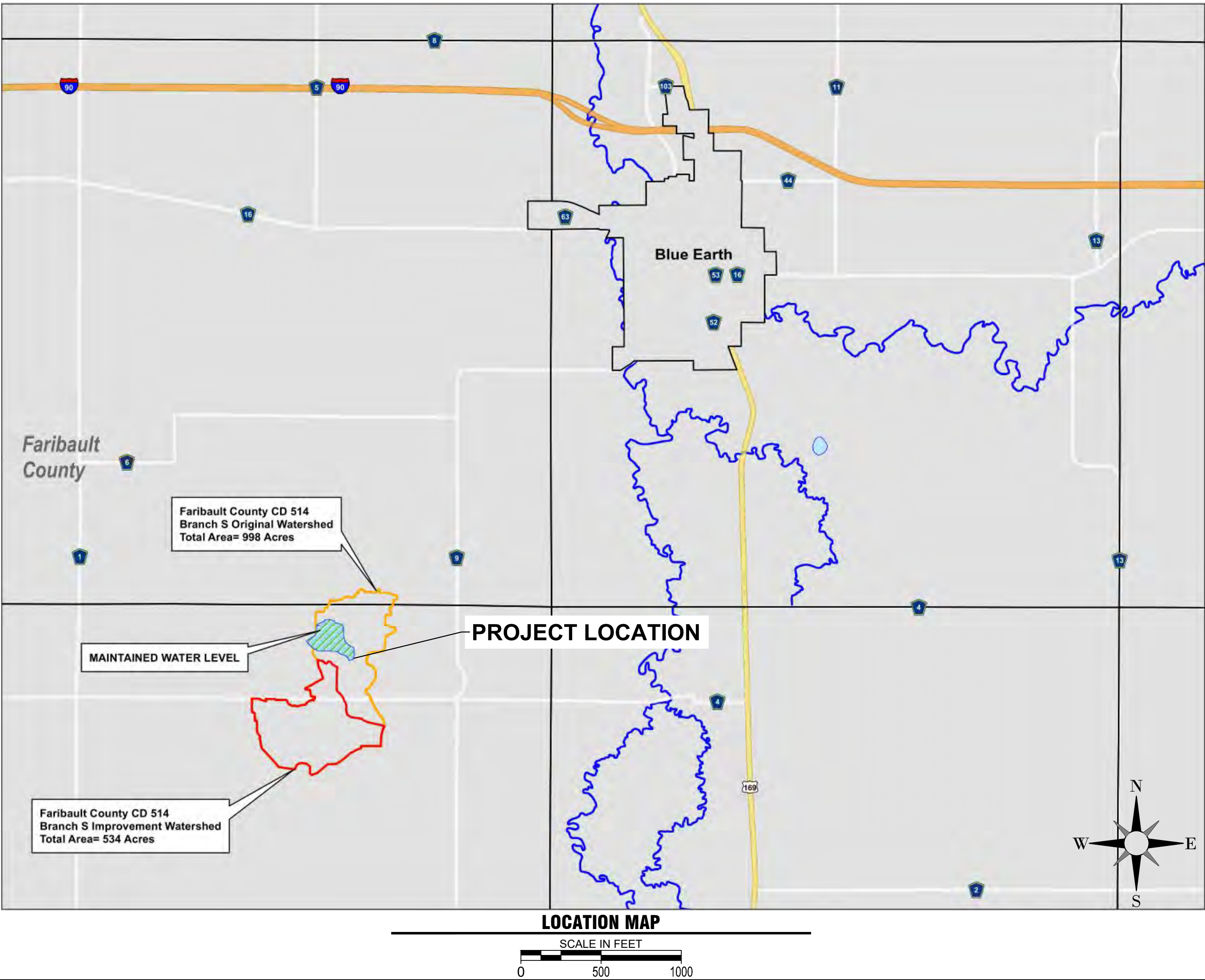
## AS-BUILT PLANS FOR: BRANCH S IMPROVEMENT

ISG PROJECT # 18-21756



### LEGEND

EXISTING	
	CITY LIMITS
	SECTION LINE
	QUARTER SECTION LINE
	RIGHT OF WAY LINE
	PROPERTY / LOTLINE
	EASEMENT LINE
	ACCESS CONTROL
	WATER EDGE
	WETLAND BOUNDARY
	WETLAND / MARSH
	FENCE LINE
	CULVERT
	STORM SEWER
	SANITARY SEWER
	SANITARY SEWER FORCEMAIN
	WATER
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	UNDERGROUND TV
	OVERHEAD UTILITY
	UNDERGROUND UTILITY
	UNDERGROUND FIBER OPTIC
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	DECIDUOUS TREE
	CONIFEROUS TREE
	TREE LINE
	MANHOLE/STRUCTURE
	CATCH BASIN
	HYDRANT
	VALVE
	CURB STOP
	POWER POLE
	UTILITY PEDESTAL / CABINET
PROPOSED	
	LOT LINE
	RIGHT OF WAY
	EASEMENT
	CULVERT
	STORM SEWER
	STORM SEWER (PIPE WIDTH)
	SANITARY SEWER
	SANITARY SEWER (PIPE WIDTH)
	WATER
	GAS
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TV
	CONTOUR
	MANHOLE
	CATCH BASIN
	HYDRANT
	VALVE



### SHEET INDEX

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### PROJECT GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT/ENGINEER.
2. CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
4. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
5. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
7. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
8. THE LOCATION AND TYPE OF ALL INPLACE UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS AND ELEVATIONS OF ALL INPLACE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
9. THE CONTRACTOR IS TO CONTACT "GOPHER STATE ONE CALL" FOR UTILITY LOCATIONS, MINIMUM 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (1-800-252-1166).

## PROJECT INDEX:

### OWNER:

**LORN BENZ**  
302 OAK KNOLL COURT  
BLUE EARTH, MN 56013

PH: 507-227-8469

### PROJECT

#### ADDRESS / LOCATION:

PILOT GROVE TOWNSHIP  
SECTIONS 2 & 3

PILOT GROVE TWP  
FARIBAULT COUNTY, MINNESOTA

### MANAGING OFFICE:

**MANKATO OFFICE**  
115 EAST HICKORY STREET  
SUITE 300  
MANKATO, MN 56001  
PHONE: 507.387.6651  
FAX: 507.387.3583

PROJECT MANAGER: MARK ORIGER  
EMAIL: MARK.ORIGER@IS-GRP.COM

### SPECIFICATIONS REFERENCE

ALL CONSTRUCTION SHALL COMPLY WITH THE COUNTY OF FARIBAULT REQUIREMENTS AND MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2018 EDITION, AND THE STANDARD SPECIFICATIONS FOR SANITARY SEWER, STORM DRAIN AND WATERMAIN AS PROPOSED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA 2013, UNLESS DIRECTED OTHERWISE.

### PROJECT DATUM

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 1996 ADJUSTMENT (NAD83/1996)) ON THE FARIBAULT COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET. ELEVATIONS HAVE BEEN REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). RTK GPS METHODS WERE USED TO ESTABLISH HORIZONTAL AND VERTICAL COORDINATES FOR THIS PROJECT.

### TOPOGRAPHIC SURVEY

THIS PROJECT'S TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED IN AUGUST OF 2018 BY ISG.

### B.M. ELEVATION=1090.25

MnDOT POINT ELEVATION. ELMORE 6 MN043.

### PROJECT

## FARIBAULT COUNTY

## CD 514 BRANCH S

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
CAD FILE NAME	21756 TITLE
DRAWN BY	JAG
DESIGNED BY	MAQ/JAG
REVIEWED BY	MAQ
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

### TITLE

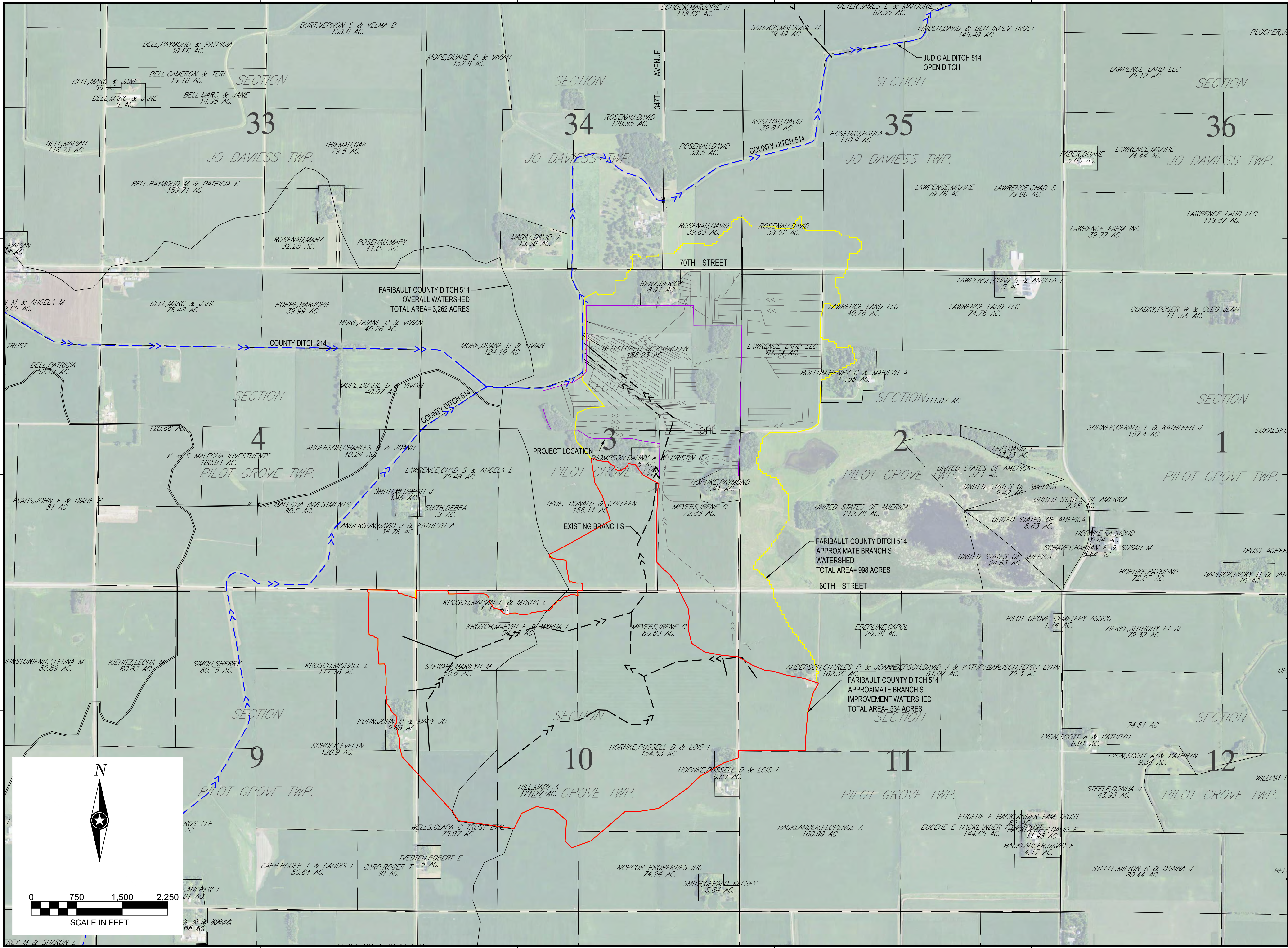
## TITLE

### SHEET

1

OF 13





I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 MINNESOTA.

MARK A. ORIGER

*Mark Origer*

DATE 05/28/2020 LIC. NO. 54863

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 MINNESOTA.

**AS-BUILT 02/12/21**

DATE LIC. NO.

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PROJECT

**FARIBAULT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
CAD FILE NAME	21756 BRANCH S WATERSHED
DRAWN BY	JAG
DESIGNED BY	MAQ/JAG
REVIEWED BY	MAQ
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

**BRANCH S WATERSHED**

SHEET



1. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A DRAINAGE OUTLET FOR THE ENTIRE CD 514 BRANCH S SYSTEM.
2. ALL DEWATERING FOR THE PROJECT IS INCIDENTAL.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO WITHIN A 100-FOOT WIDE SWATH ALONG PROPOSED CD 514 BRANCH S TILE ALIGNMENTS AND TO WITHIN THE EASEMENT BOUNDARY.
4. ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. TOPSOIL SHALL BE REPLACED BACK ON TOP OF COMPACTED BACKFILL AND TOP TWO (2) FEET SHALL BE LEFT UNCOMPACTED AS MUCH AS POSSIBLE. EXCAVATED SPOILS SHALL BE SPREAD EVENLY IN CONSTRUCTION AREA AS TO NOT IMPEDE DRAINAGE. ALL EFFORTS SHALL BE MADE TO KEEP TOPSOIL ON TOP & SEPARATED AND MUST BE CHISEL PLOWED FOLLOWING CONSTRUCTION.
5. UNLESS OTHERWISE NOTED, ALL HDPE BENDS AND FITTINGS SHALL BE INCIDENTAL TO THE TILE PAY ITEMS, AND MUST BE BANDED, WRAPPED IN FABRIC AND SURROUNDED WITH CRUSHED ROCK.
6. UNLESS SPECIFICALLY NOTED, HDPE AND RCP WILL BE THE ONLY ACCEPTABLE MATERIALS FOR ALL PROPOSED BURIED TILE. REFER TO SPECIFICATIONS FOR PROPER INSTALLATION REQUIREMENTS.
7. VERIFY EXISTING TILE LOCATIONS AND ELEVATIONS PRIOR CONSTRUCTION.
8. DROP INTAKES WILL BE PAID FOR BY EACH AND NO ADDITIONAL COMPENSATION WILL BE MADE FOR IN-FIELD ELEVATIONS THAT VARY FROM THE PLANS. CUT INTAKES TO 8" ABOVE GRADE. MINOR SHAPING AROUND DROP INTAKES AND CULVERT INLETS SHALL BE INCIDENTAL TO THESE RESPECTIVE PAY ITEMS. INTAKE CAPS MAY BE SUBSTITUTED FOR TRASH GRATES IN AREAS THAT WILL NOT TAKE SURFACE FLOW, AS DETERMINED BY THE ENGINEER.
9. DROP INTAKES THAT ARE NOT INTENDED TO TAKE SURFACE FLOW MAY BE CAPPED, AS DETERMINED BY THE ENGINEER. INTAKES MAY BE CUT DOWN AND BURIED AFTER FINAL TELEVISION; PER LANDOWNER REQUEST.
10. DROP INTAKES THAT ARE DESIGNED TO BE ON PROPERTY LINES SHALL BE ADJUSTED IN FIELD TO MATCH ACTUAL LOCATION OF PROPERTY LINE, AS DETERMINED BY THE ENGINEER.
11. AT CROSSINGS OF EXISTING TILE, ONLY THE UPSTREAM SIDE NEED BE CONNECTED, UNLESS OTHERWISE NOTED. EACH CROSSING WILL BE PAID FOR AS ONE CONNECTION. ALL BENDS, TEES, AND OTHER FITTINGS NECESSARY FOR CONNECTION SHALL BE INCIDENTAL TO CONNECTION BID ITEM.
12. EXISTING BRANCH CONNECTIONS SHALL BE CONSTRUCTED ONE SIZE BIGGER THAN EXISTING, UNLESS OTHERWISE SPECIFIED, WITH DUAL WALL HDPE AND APPROPRIATE FITTINGS. (SINGLE WALL PE TILE WILL NOT BE ALLOWED)
13. ALL PRIVATE TILE CONNECTIONS SHALL BE DONE WITH INSERTA-TEE CONNECTIONS OR APPROVED EQUAL, WHEN APPLICABLE. CONNECTING TILE SHALL MATCH EXISTING TYPE SIZE AND SLOPE. (PE TILE WILL BE ALLOWED FOR CONCRETE AND CLAY CONNECTIONS)
14. IN AREAS WHERE CROSS CONNECT IS CALLED OUT, EACH CONNECTIONS INCLUDES 30 LF OF SPECIFIED TILE, CONNECTION TO THE PROPOSED MAINLINE, CONNECTION TO THE EXISTING MAINLINE AND/OR BRANCH.

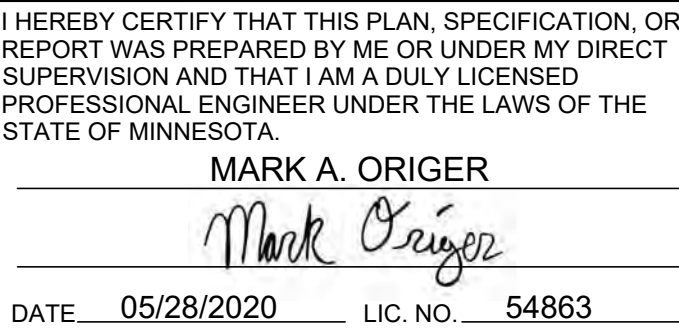
1. DURING CONSTRUCTION, CONTRACTOR SHALL MAINTAIN A DRAINAGE OUTLET FOR THE ENTIRE CD 514 SYSTEM.
2. AREAS WHERE A 16.5-FOOT GRASS STRIP DOES NOT EXIST OR HAS BEEN DISTURBED DURING CONSTRUCTION SHALL BE PLANTED AFTER ALL WORK HAS BEEN COMPLETED IN THAT AREA, & SHALL COMPLY TO SPECIFICATIONS OUTLINED IN THE SPEC BOOK. THESE AREAS WILL BE DETERMINED BY THE ENGINEER.
3. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY TO WITHIN A 33-FOOT WIDE BUFFER AREA ALONG PROPOSED DITCH ALIGNMENTS. DISTURBANCE THROUGH ROAD CROSSINGS, ROAD DITCHES, AND GRASS BUFFERS SHALL BE LIMITED TO THE WIDTH OF A TRENCH NECESSARY FOR SAFE CONSTRUCTION PRACTICES.
4. ALL EFFORTS SHALL BE MADE DURING CONSTRUCTION TO SEPARATE SOIL TYPES. TOP SOIL SHALL BE REPLACED BACK ON TOP OF COMPACTED BACKFILL AND TOP TWO (2) FEET SHALL BE LEFT UNCOMPACTED AS MUCH AS POSSIBLE. EXCAVATED SPOILS SHALL BE SPREAD EVENLY IN CONSTRUCTION AREA AS TO NOT IMPEDE DRAINAGE. ALL EFFORTS SHALL BE MADE TO KEEP TOPSOIL ON TOP.
5. EXISTING TILES AT OUTLETS (SURFACE AND SUBSURFACE) SHALL BE FULLY REMOVED THROUGH THE DITCH BANK TO A DISTANCE OF 30 FEET FROM THE TOE OF THE SPOIL BERM OR TO THE PROPOSED VINYL SHEET PILE EXTENTS, WHICHEVER IS GREATER. AREAS WHERE DITCH BANK AND EXISTING SPOIL PILES EXISTS SHALL BE FILLED AND RE-COMPACTED TO MATCH ADJACENT SPOILS. ALL DISTURBED AREAS SHALL BE SEEDED WITH MNDOT 32-241 WITH EROSION CONTROL BLANKET.

MATERIALS (ROCK RIPRAP & GEOTEXTILE)  
ROCK RIPRAP SHALL BE QUARRY STONE (ANGULAR CRUSHED BEDROCK), IN ACCORDANCE WITH MN/DOT SPECIFICATION 3601. ROCK RIPRAP SHALL BE PLACED WITHIN THE FENCED AREA TO A MINIMUM DEPTH OF 9 INCHES ON TYPE IV GEOTEXTILE FABRIC. SEE GRADATION TABLE FOR PROPER SIZE AND PERCENT ALLOWED FOR THE ROCK RIPRAP.

NOTE:  
FOR MN/DOT SPECIFICATIONS REFER TO MN/DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018 EDITION.

Item No.	Item	Unit	Quantity
101	MOBILIZATION	LS	1
102	TILE BLOCK	EA	4
103	REMOVE TILE THROUGH BERM	EA	6
104	4-INCH AGRICULTURAL TILE	LF	540
105	6-INCH AGRICULTURAL TILE	LF	650
106	8-INCH AGRICULTURAL TILE	LF	357
107	10-INCH AGRICULTURAL TILE	LF	750
108	15-INCH AGRICULTURAL TILE	LF	1,565
109	24-INCH AGRICULTURAL TILE	LF	70
110	VINYL SHEET PILING	LF	948
111	WEIR (STEEL SHEET PILING WITH CAP)	LF	42
112	6" TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	LF	1
113	8" TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	3
114	10" TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1
115	15" TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	2
116	24" TILE OUTLET (RIPRAP & GEOTEXTILE FABRIC)	EA	1
117	24" CMP APRON	EA	1
118	CLASS III RIPRAP WITH GEOTEXTILE FABRIC	CY	114
119	COMMON BORROW	CY	26,700
120	RODENT GUARD	EA	6
121	15" ASI	EA	1
122	SEEDING (MN STATE SEED MIX 32-241)	AC	0.4
123	SEEDING (MN STATE SEED MIX 34-181)	AC	19.0
124	SEEDING (MN STATE SEED MIX 34-271)	AC	27.4
125	SEEDING (MN STATE SEED MIX 35-541)	AC	40.5
126	SEEDING (PILOT DEEP MARSH)	AC	16.6
127	TILE INVESTIGATION	HR	22

-CLAY BORROW SHALL BE SUITABLE MATERIAL FOR CONSTRUCTION OF THE OUTLET STRUCTURE AND GRADING.  
-TOPSOIL INCLUDES ALL EARTHWORK FOR GRADING AND TOPSOIL DRESSING.



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 MINNESOTA.

DATE \_\_\_\_\_ LIC. NO. \_\_\_\_\_

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PROJECT

PILOT GROVE TWP MINNESOTA

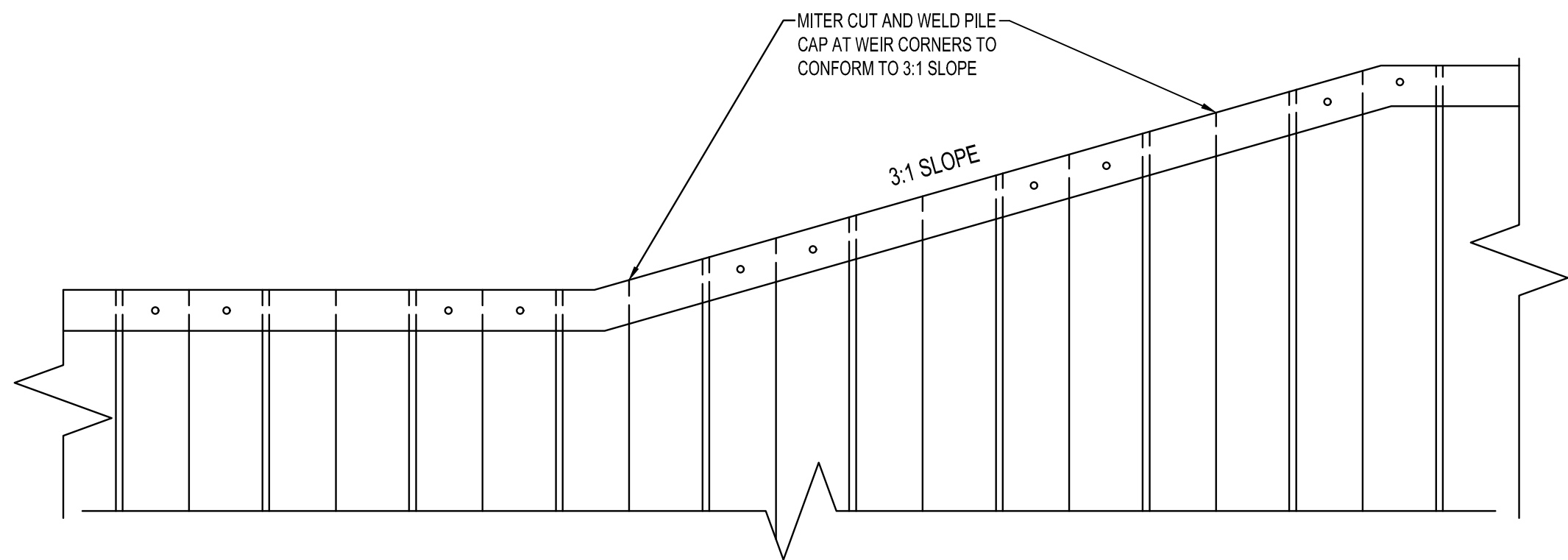
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PROJECT NO.	18-21756
CAD FILE NAME	21756 DETAILS
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

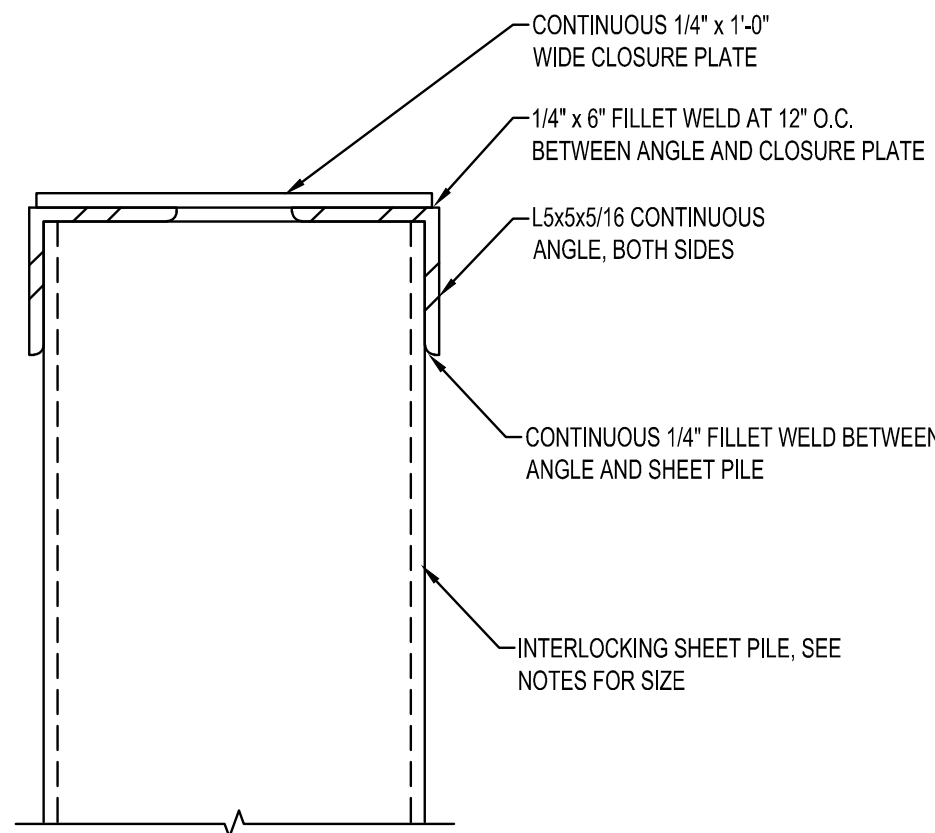
**TITLE**

SHEET





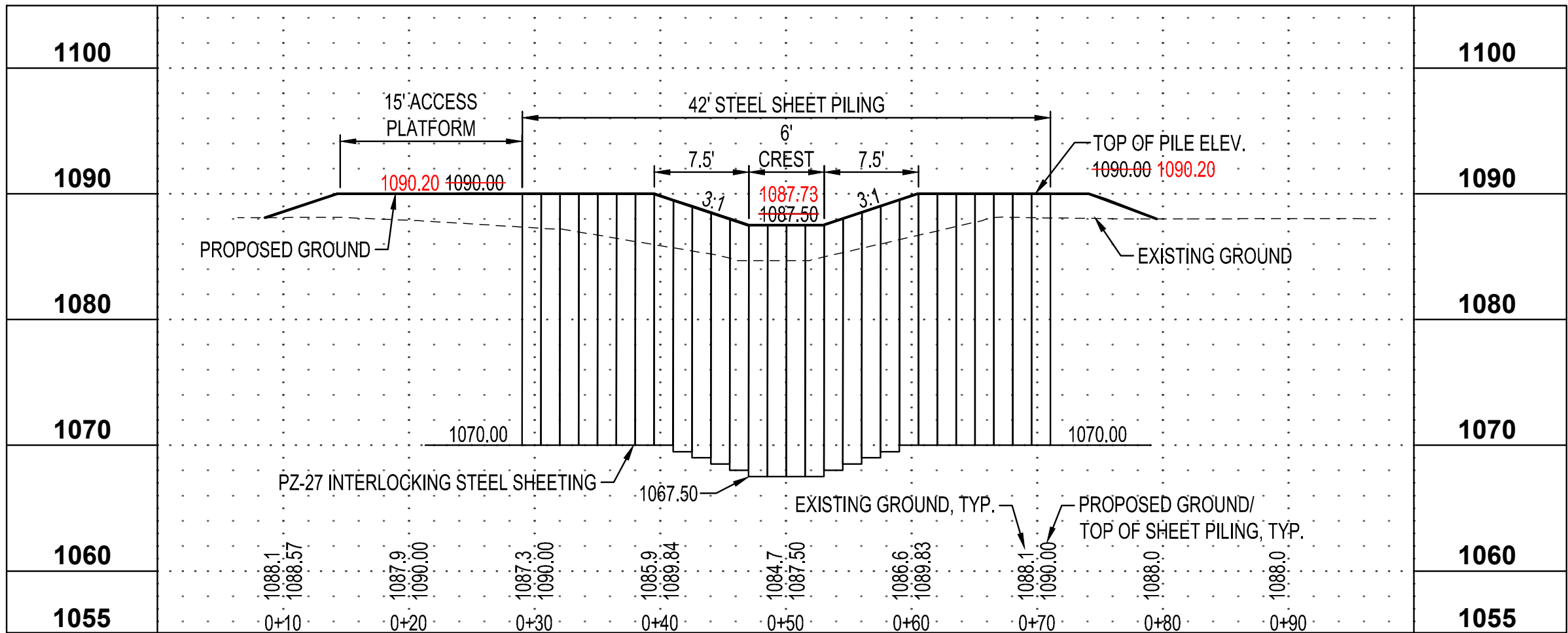
TYPICAL FRONT VIEW  
PILE CAP PLACEMENT



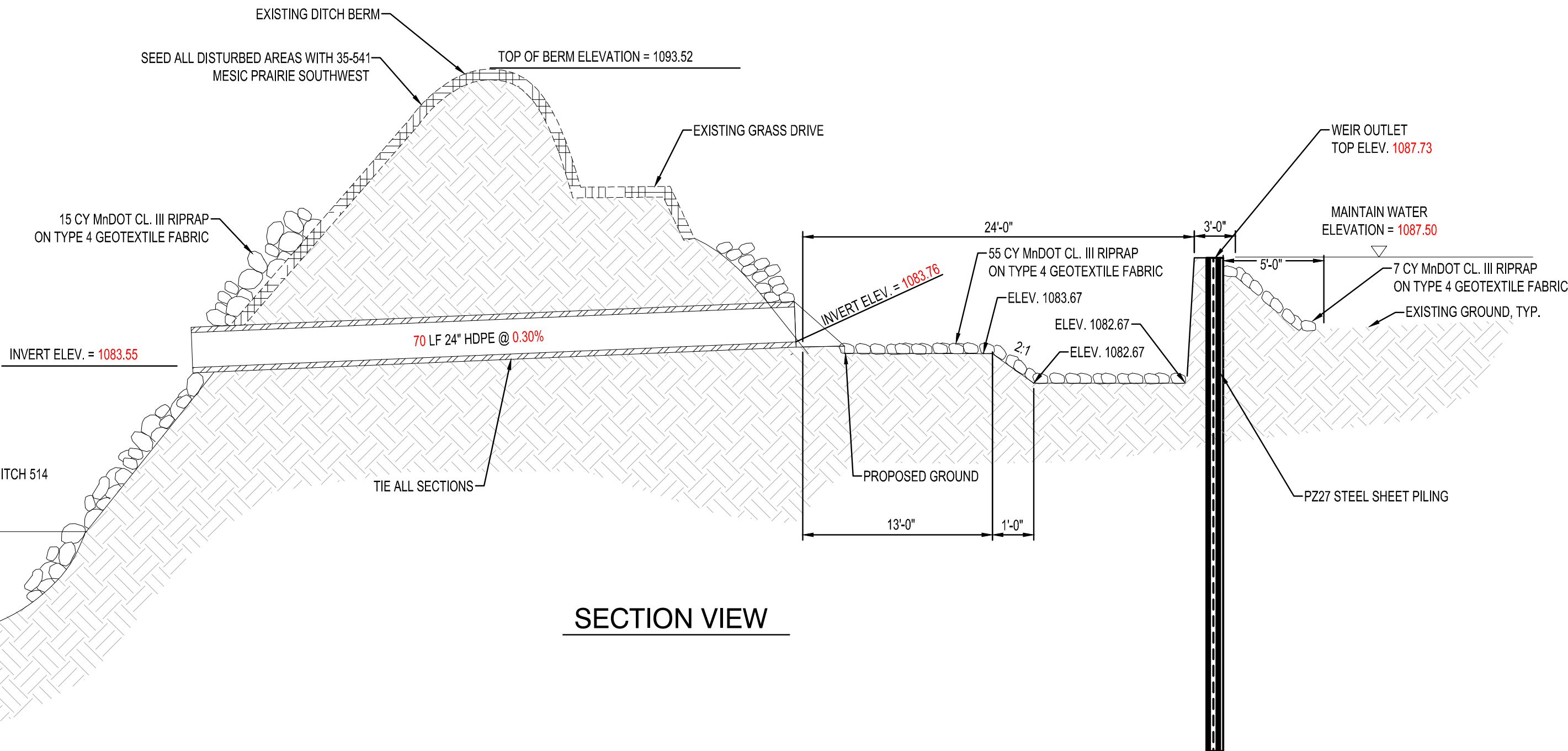
TYPICAL  
PILE CAP DETAIL

STEEL SHEET PILE NOTES:

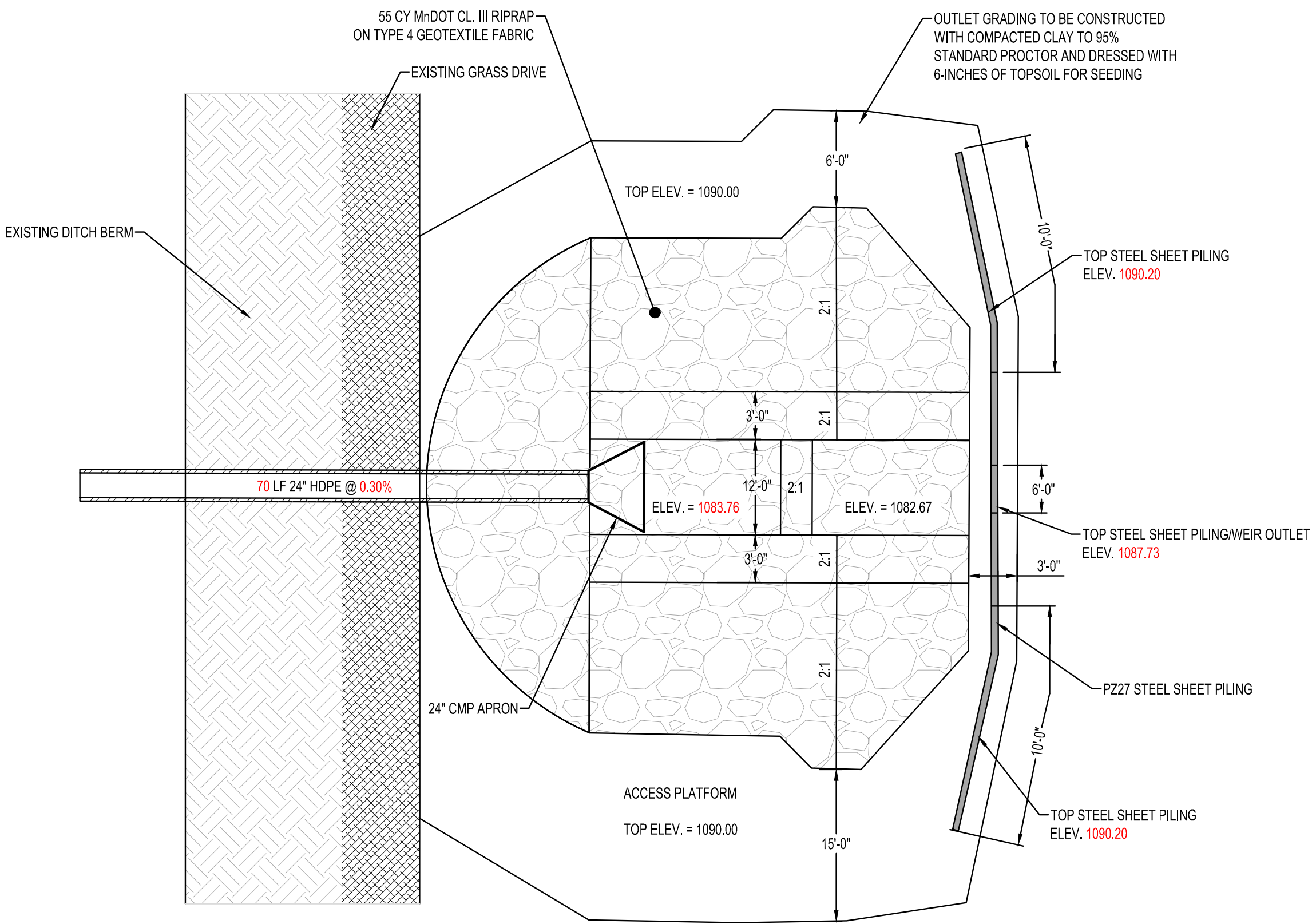
1. SHEET PILES FOR WETLAND OUTLET STRUCTURE SHALL CONSISTS OF PZ HEAVY DUTY SHEET PILES.
2. STEEL SHEETING SHALL INCLUDE PZ-27 INTERLOCKING STEEL WITH A WIDTH OF 18-INCHES, HEIGHT OF 12 INCHES, AND THICKNESS OF 0.375 INCHES WITH MOMENT OF INERTIA OF 184.20 IN<sup>4</sup>/FT AND ELASTIC SECTION MODULUS OF 30.2 IN<sup>3</sup>/FT.  
**NOTE: PZC-18 WAS USED IN LIEU OF PZ-27 DUE TO PRODUCT AVAILABILITY. PROPERTIES OF THE PZC-18 MEET OR EXCEED THOSE REQUIRED UNDER THE PZ-27 SPECIFICATIONS.**
3. SHEET PILING LENGTH = 20 FT MINIMUM WITH 16 FT MINIMUM EMBED INTO SOIL (RELATIVE TO LOWEST ADJACENT FINAL GRADE).
4. SHEET PILES SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SELECTED SHEET PILE FOR APPROVAL PRIOR TO CONSTRUCTION.
6. FILL FOR SHEET PILE WEIR AND STILLING BASIN AREA SHALL BE COMPRISED OF COMPACTED CLAY BORROW AS INDICATED ON THE PLANS. CLAY SHALL BE COMPACTED TO 6-INCHES BELOW DESIGNED GRADE TO ALLOW FOR 6-INCHES OF TOPSOIL DRESSING AND SEEDING. CLAY BORROW AREA INCLUDES STRIPPING A MINIMUM OF 12-INCHES TO TOPS OIL TO ACCESS CLAY BORROW AREA TO EXCAVATE A MAXIMUM OF 2-FEET OF CLAY MATERIAL. CLAY BORROW AREA SHALL BE REGRADED WITH STRIPPED TOPSOIL MATERIAL FOR VEGETATION ESTABLISHMENT AND GRADED TO DRAIN DOWNSLOPE.
7. ALL SHEETING MUST MEET ASTM A328 (GR. 40) OR A572 (GR. 50).
8. ANY HOLES (LIFTING HOOK HOLES, ETC.) LEFT IN SHEET PILE AFTER INSTALLATION SHALL BE CLOSED OFF TO NOT ALLOW WATER TO FLOW THROUGH.
9. AFTER SHEETING INSTALLATION ALL SHEETING IS TO BE CUT TO CONFORM WITH SPECIFIED SLOPE IN PREPARATION FOR CONSTRUCTION OF THE SHEET PILE CAP.
10. CONTRACTOR IS RESPONSIBLE TO CONFIRM AND PROVIDE INSTALLATION EQUIPMENT THAT IS COMPATIBLE WITH THE SHEETING TO BE USED. SOME INSTALLATION METHODS MAY WORK BETTER WITH HEAVIER SHEET PILE.
11. SHEETING CHOICES NOT LISTED ABOVE MAY BE ALLOWED WITH PRIOR APPROVAL AT ENGINEER'S DISCRETION.



PROFILE ALONG OUTLET  
NTS



SECTION VIEW



PLAN VIEW



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 MINNESOTA.

MARK A. ORIGER

*Mark Origer*

DATE: 05/28/2020 LIC. NO. 54863

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**AS-BUILT 02/12/21**

DATE: LIC. NO.

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PROJECT

**FARIBAULT  
COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 18-21756

CAD FILE NAME 21756 DETAILS

DRAWN BY JAG

DESIGNED BY MAO/JAG

REVIEWED BY MAO

ORIGINAL ISSUE DATE 10/11/2019

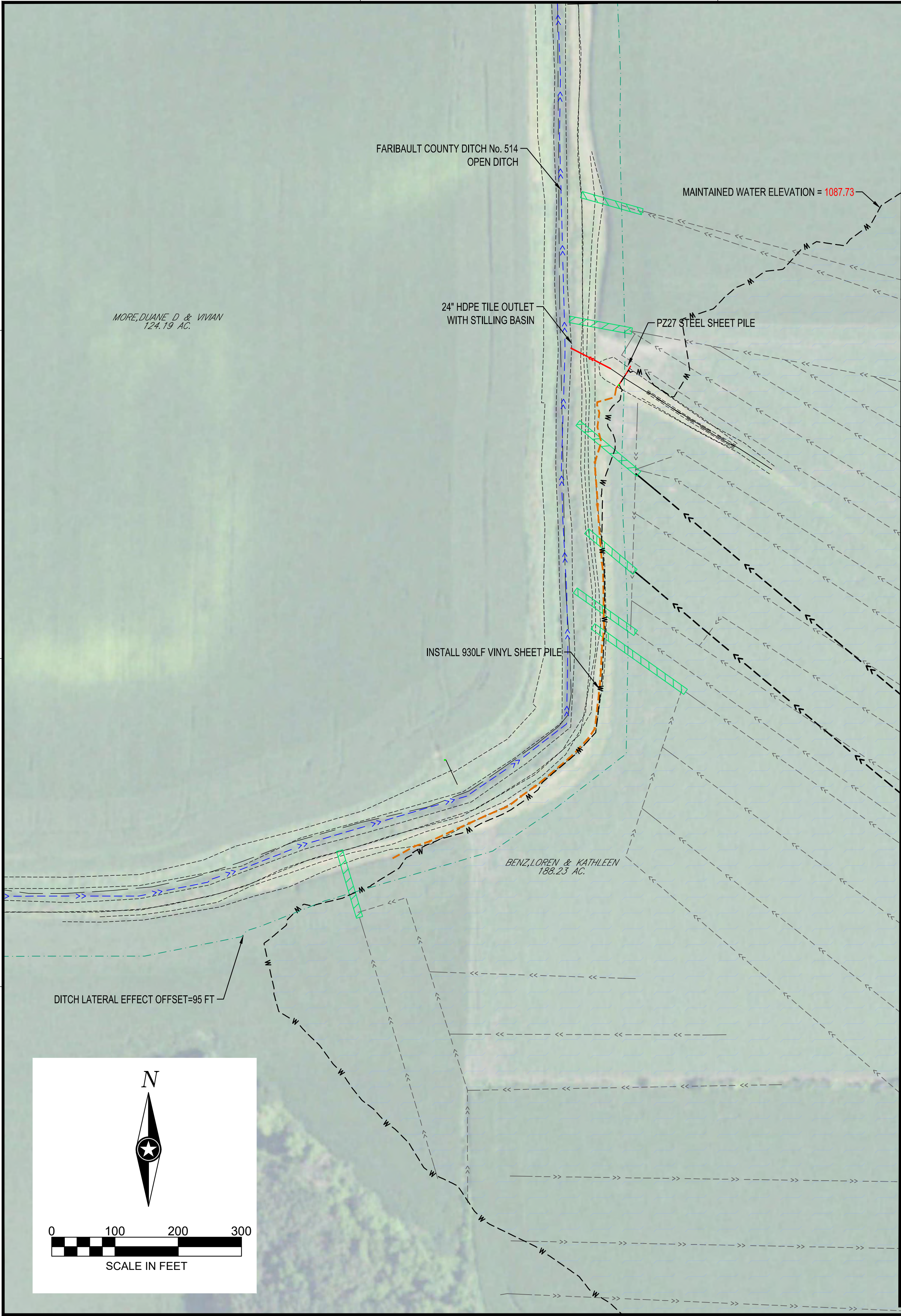
CLIENT PROJECT NO. -

TITLE

**DETAILS**

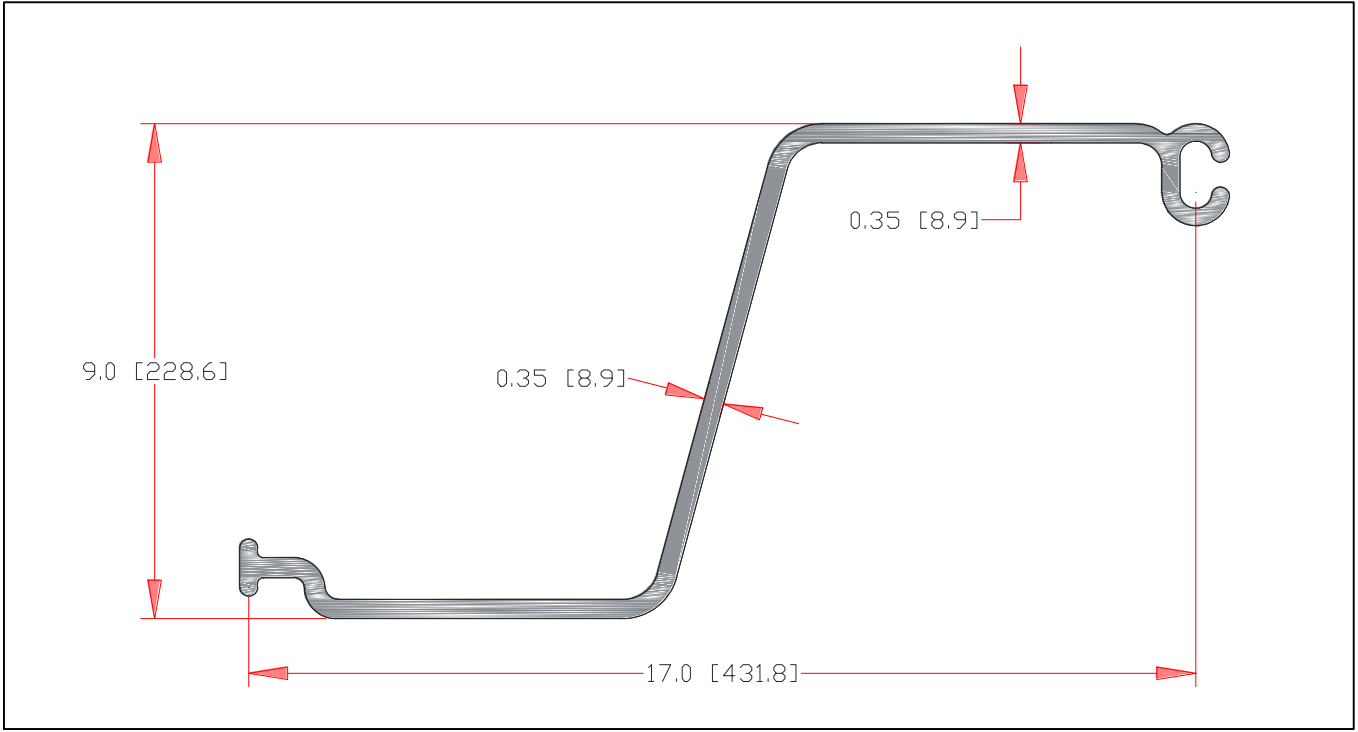
SHEET





**VINYL SHEET PILE NOTES:**  
VINYL SHEET PILE INSTALLATION IS FOR SEEPAGE PREVENTION AND RODENT PROTECTION THROUGH ADJACENT DITCH BERM.  
VINYL SHEET PILE SHALL MEET THE INCLUDE SPECIFICATIONS OR APPROVED EQUAL.  
VINYL SHEETING SHALL BE INTERLOCKING WITH THE LISTED DIMENSIONS.  
LENGTH OF VINYL SHEET PILES SHALL BE MINIMUM OF 9-FEET.  
SHEET PILES SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.  
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF SELECTED SHEET PILE FOR APPROVAL PRIOR TO CONSTRUCTION.  
BURIAL DEPTH OF THE VINYL SHEET PILE SHALL NOT EXCEED 6-INCHES AND SHALL BE AT THE GROUND LEVEL AND NOT EXPOSED.

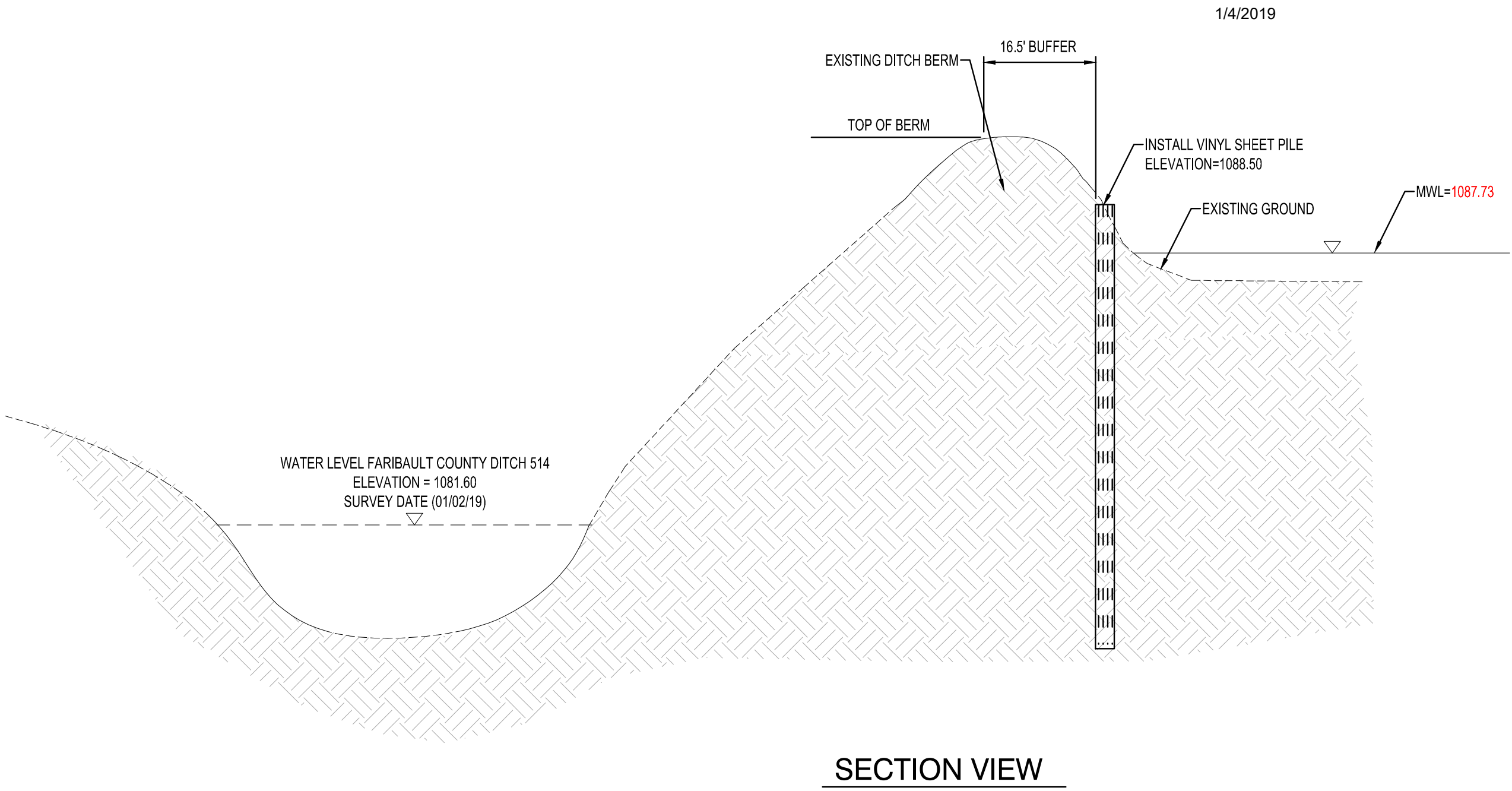
**EVERLAST SYNTHETIC PRODUCTS**  
**ESP 5.5 Vinyl Sheet Pile**  
**Technical Data Sheet**



Strength Rating (M)	Lbs-Ft/Ft	5,535	Modulus of Elasticity (E)	psi	380,000
Allowable Shear (V)	Lbs/Ft	2,737	Co-Extruded		Yes
Thickness (t)	inches	0.35	Section Depth	inches	9
Section Modulus (Z)	in3/ft	20.1	Section Width	inches	17
Moment of Inertia (I)	in4/ft	90.6	UV Stabilized		Yes
Ultimate Tensile Stress	psi	6,300	Standard	sheets/	12 &
Creep Limited stress	psi	4,000	Packaging	bundle	6

Geometric and strength properties are based on the geometric center of the part.  
Physical properties are defined by ASTM standards for Plastic Building Products. The values shown are nominal and may vary. The information found in this document is believed to be true and accurate. No warranties of any kind are made as to the suitability of ESP sheet piling for particular applications or results obtained there from. Consult with a professional engineer and/or contractor as to the suitability of this product for your particular application.

**Everlast Synthetic Products, LLC**  
1000 Wyngate Pkwy, Suite 100  
Woodstock, GA 30189  
800-687-0036  
800-687-0048 fax  
[www.everlastseawalls.com](http://www.everlastseawalls.com)



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MARK A. ORIGER

*Mark Origer*

DATE 05/28/2020 LIC. NO. 54863

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**AS-BUILT 02/12/21**

DATE LIC. NO.

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PROJECT

**FARIBAULT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

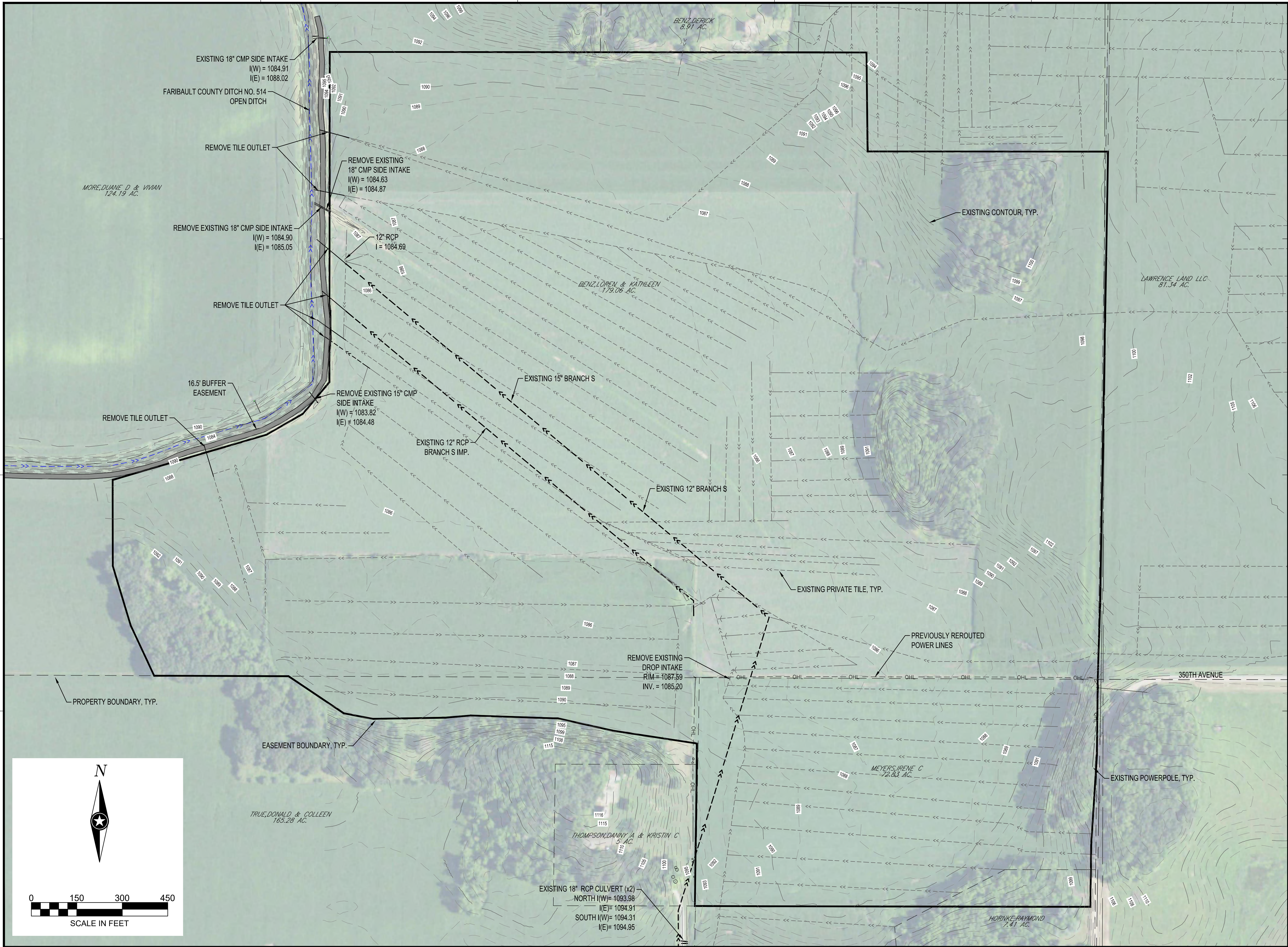
PROJECT NO.	18-21756
CAD FILE NAME	21756 VINYL PILING
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

**VINYL SHEET PILING PLAN & DETAILS**

SHEET





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PROJECT

**FARIBAULT  
COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

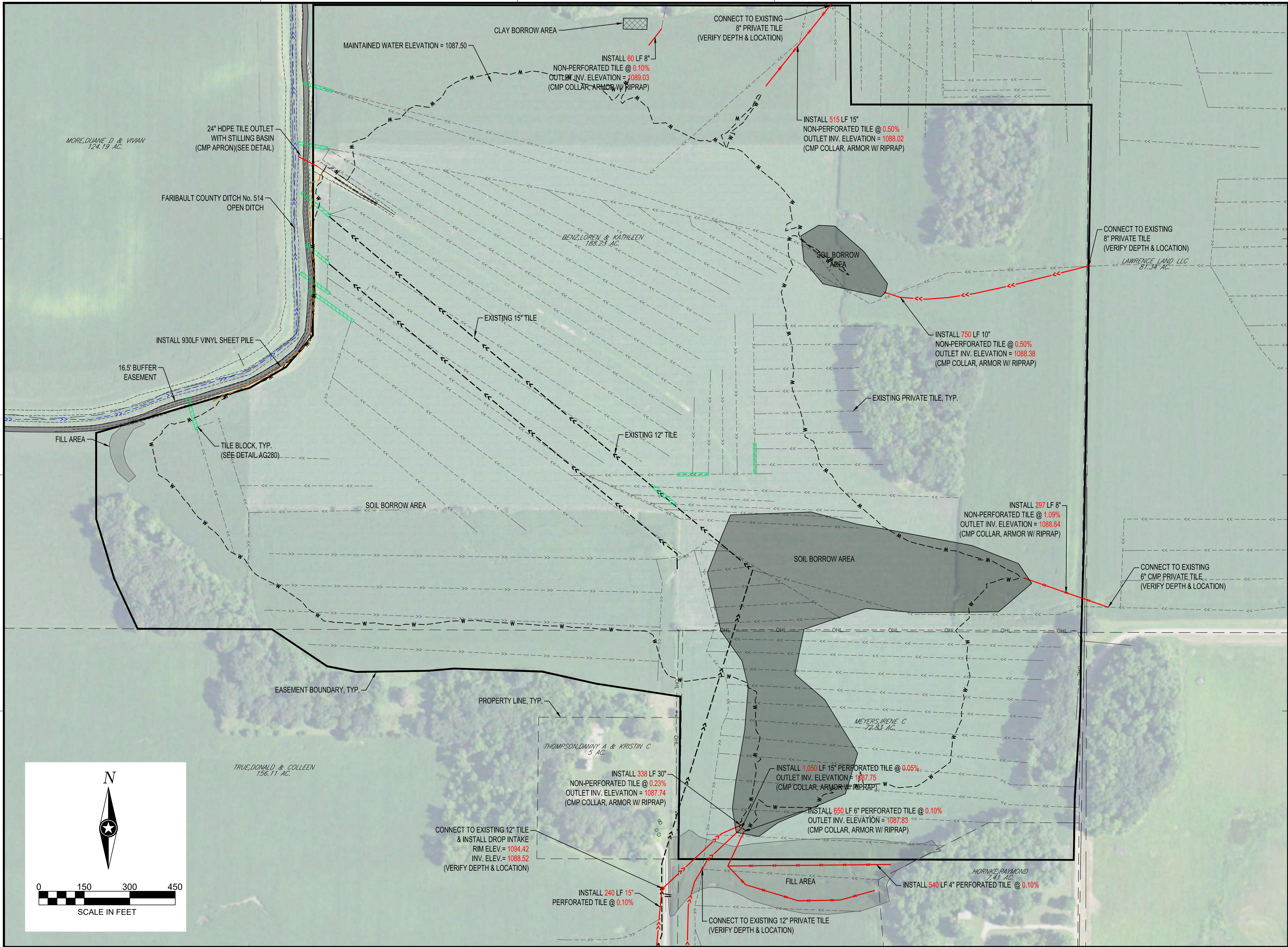
PROJECT NO.	18-21756
CAD FILE NAME	21756 EXISTING
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

**EXISTING SITE &  
REMOVAL PLAN**

SHEET





I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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 MINNESOTA.

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PROJECT

**FARIBAULT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
CAD FILE NAME	21756 PROPOSED
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

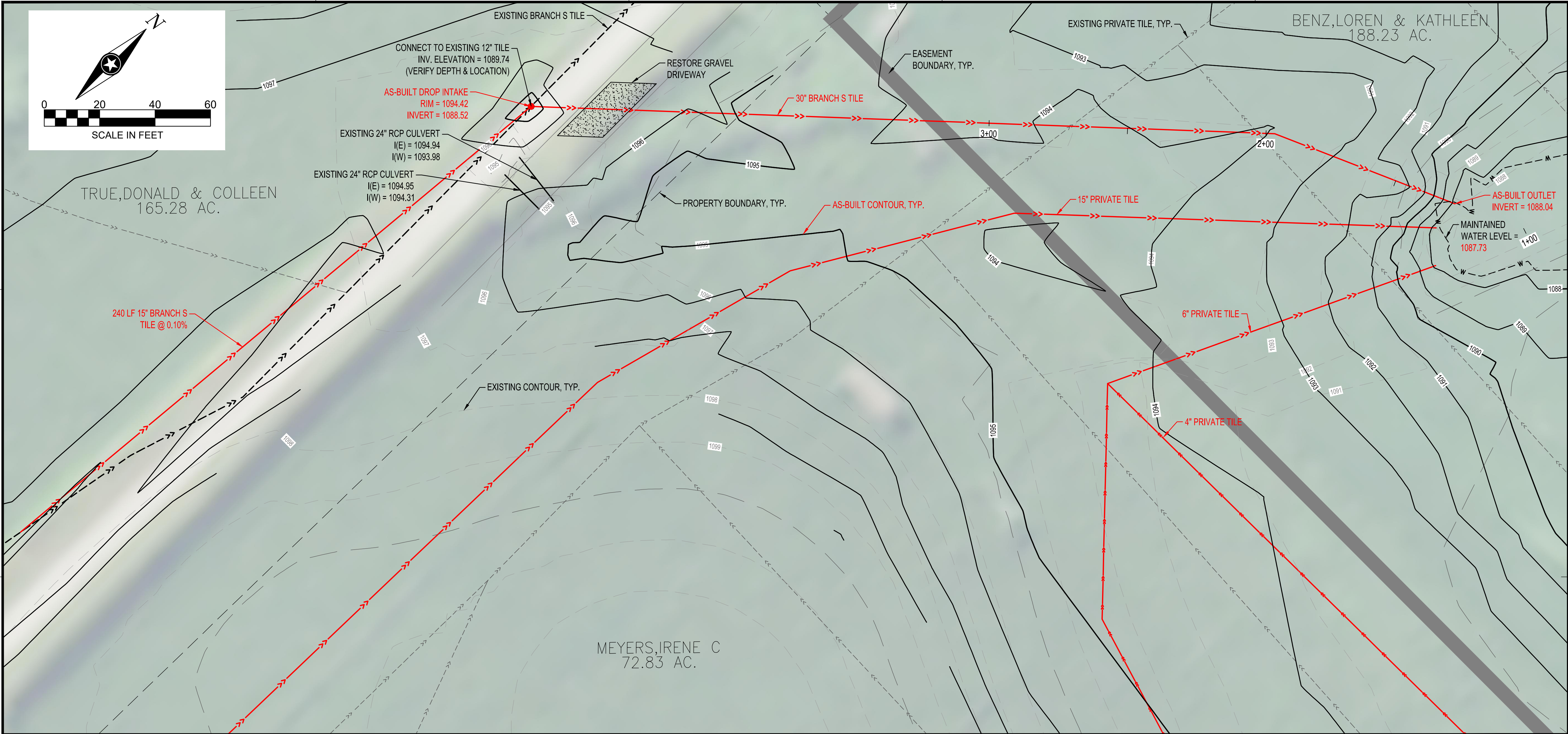
**OVERALL  
PROPOSED SITE  
PLAN**

SHEET

**7**

OF 13





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PROJECT

**FARIBAULT  
COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
CAD FILE NAME	21756 PROFILE BERM
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

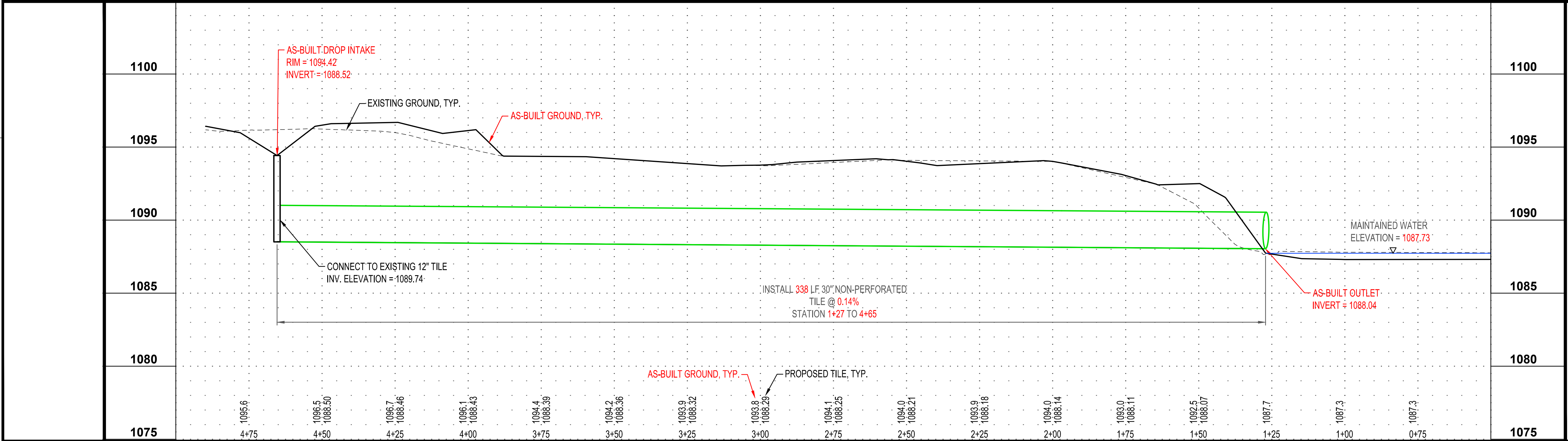
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**BRANCH S REROUTE  
PLAN & PROFILE**

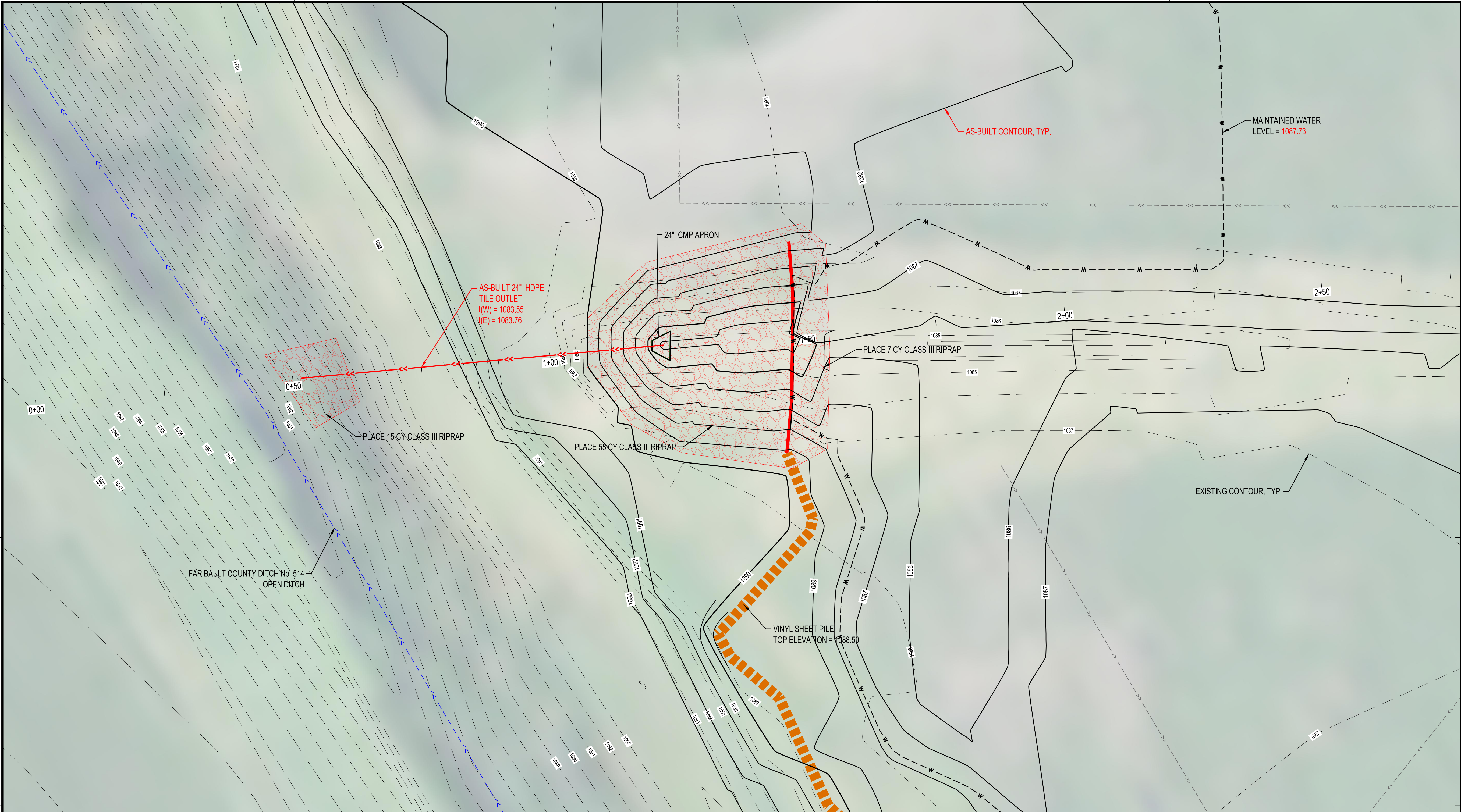
SHEET

**8**

OF 13







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PROJECT

**FARIBAULT  
COUNTY  
CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
FILE NAME	21756 STILLING BASIN
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

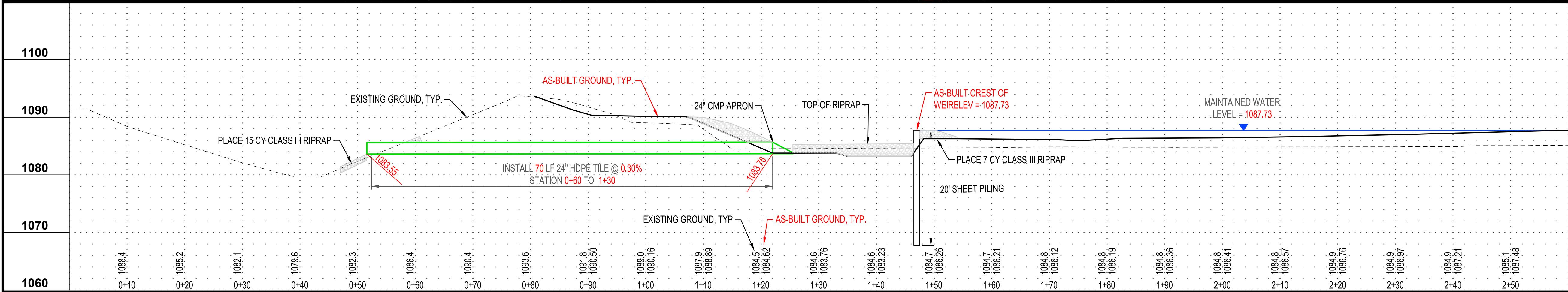
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**STILLING BASIN  
PLAN & PROFILE**

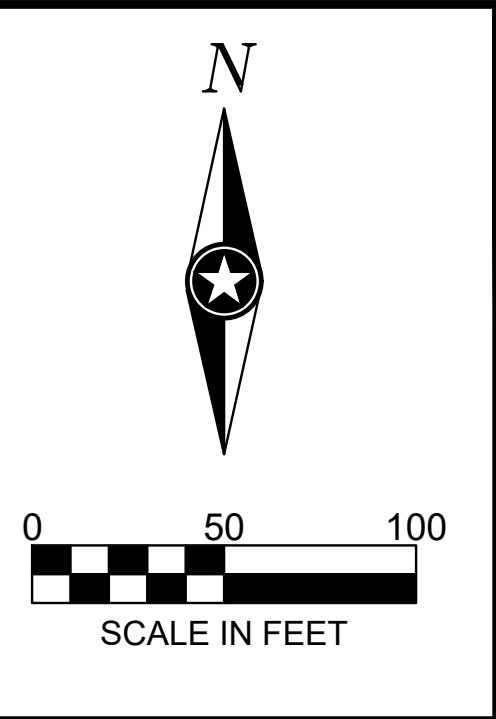
SHEET

**9**

OF 13







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PROJECT

**FARIBAULT  
COUNTY  
CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

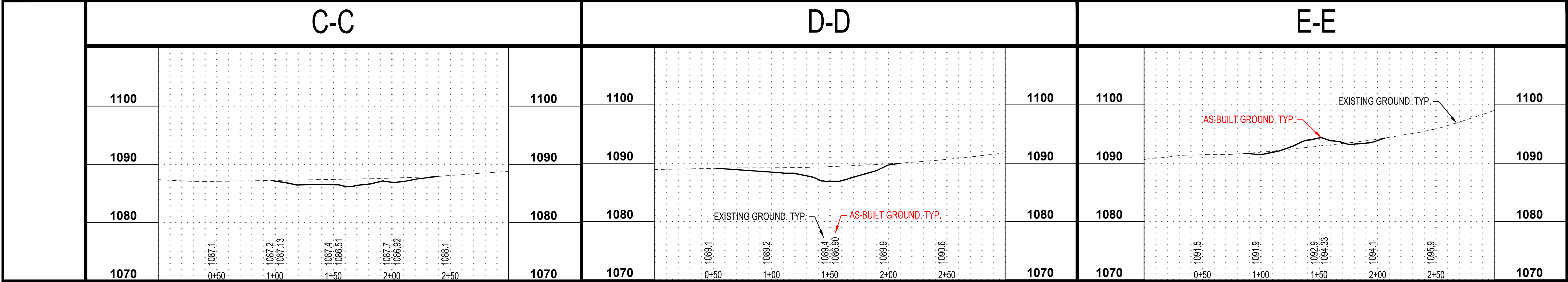
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
FILE NAME	21756 GRADING
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

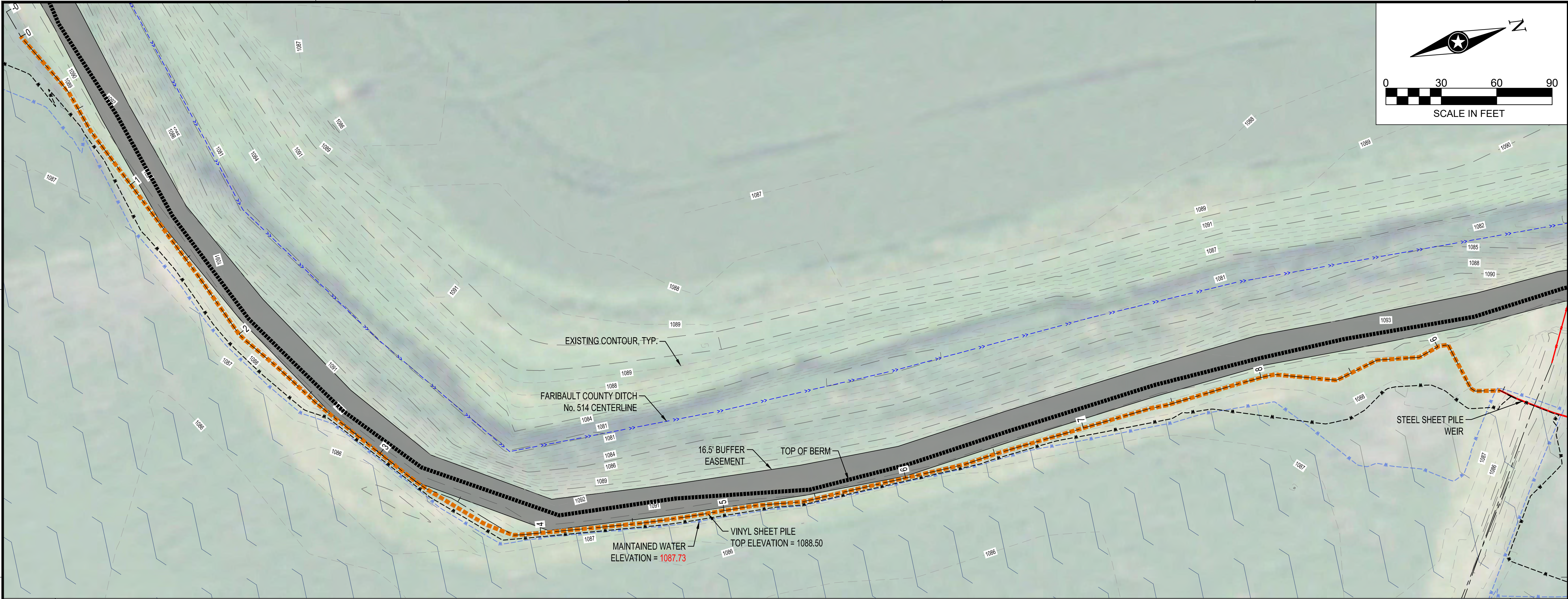
TITLE

**DETAILED GRADING**

SHEET







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MARK A. ORIGER

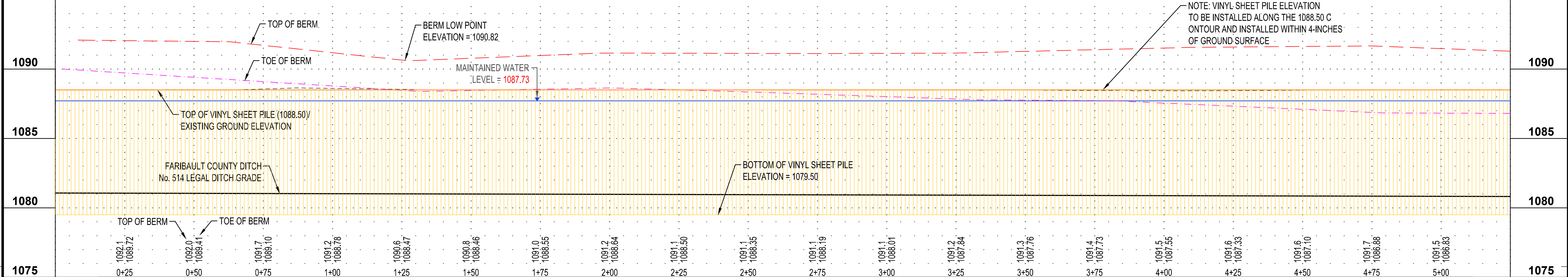
DATE 05/28/2020 LIC. NO. 54863

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PROJECT

**FARIBAULT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

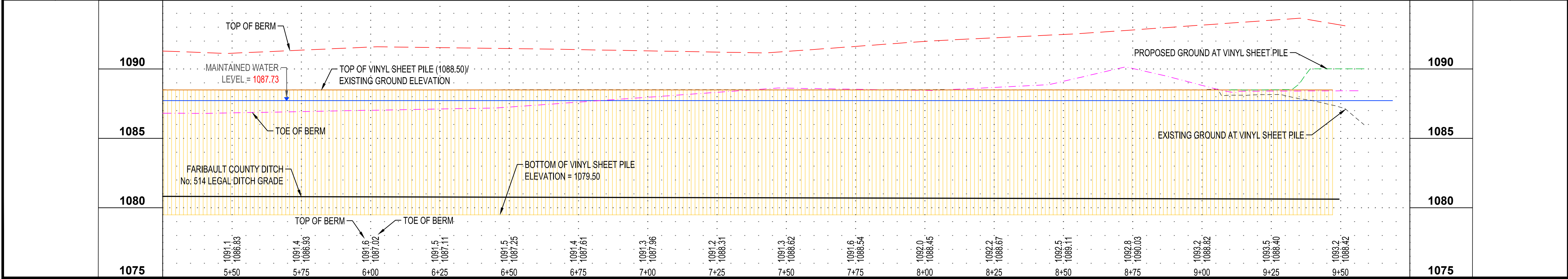
PROJECT NO.	18-21756
CAD FILE NAME	21756 VINYL PROFILES
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

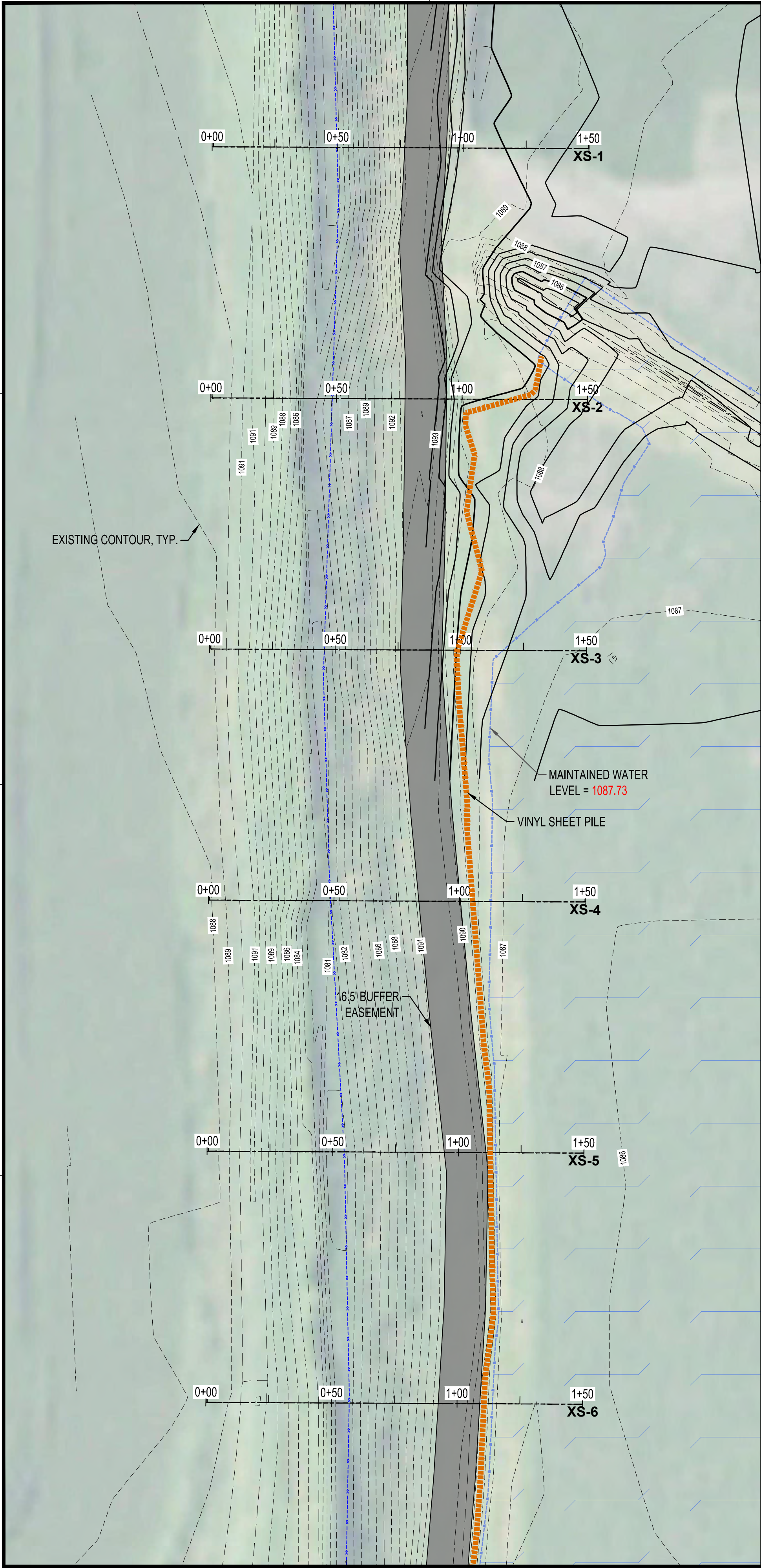
**VINYL SHEET PILE PROFILE**

SHEET

**11** OF 13

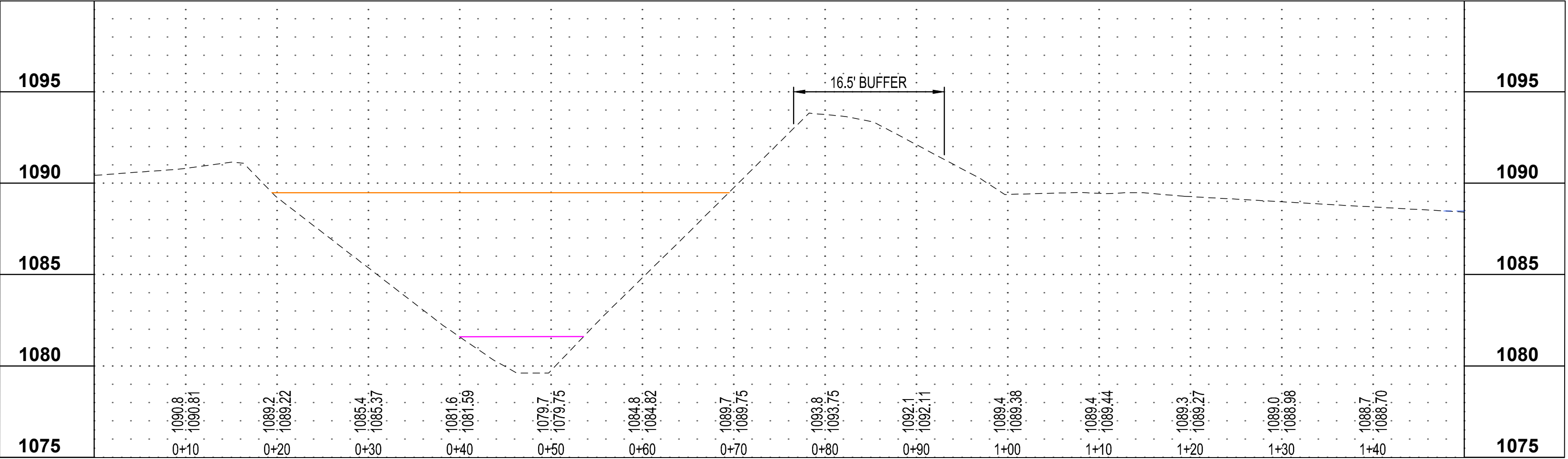




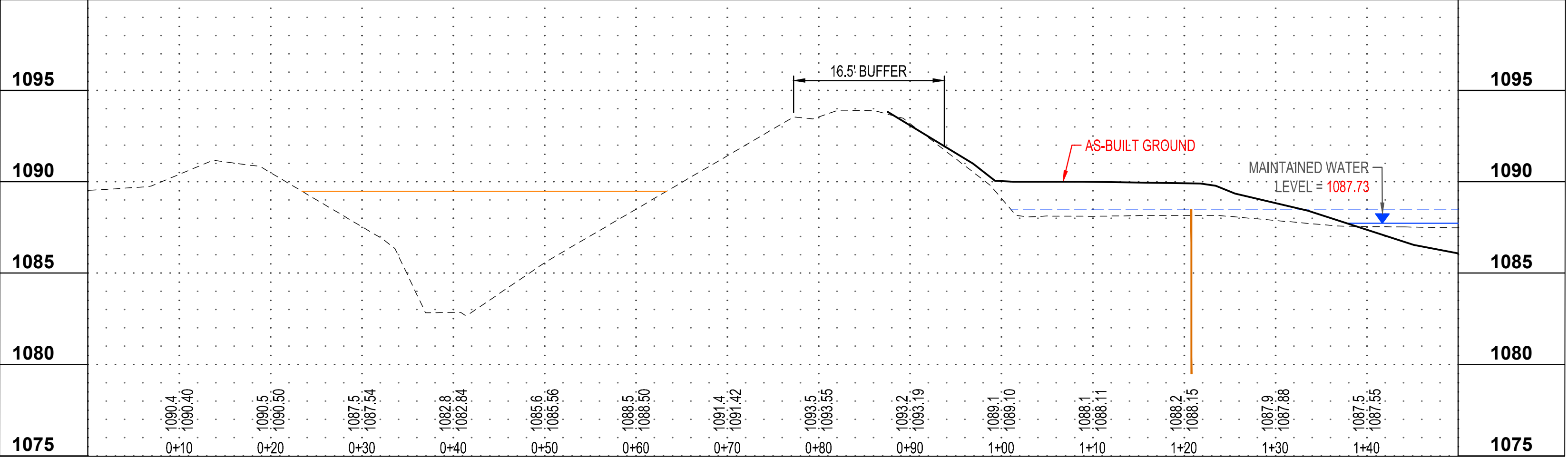


WATER LEVELS	
	PROPOSED MAINTAINED WATER (1087.50)
	HIGHEST RECORDED WETLAND WATER LEVEL JUNE 2019 (1088.48)
	DITCH WATER LEVEL JUNE 2019 (1089.48)
	DITCH WATER LEVEL JANUARY 2019 (1081.60)

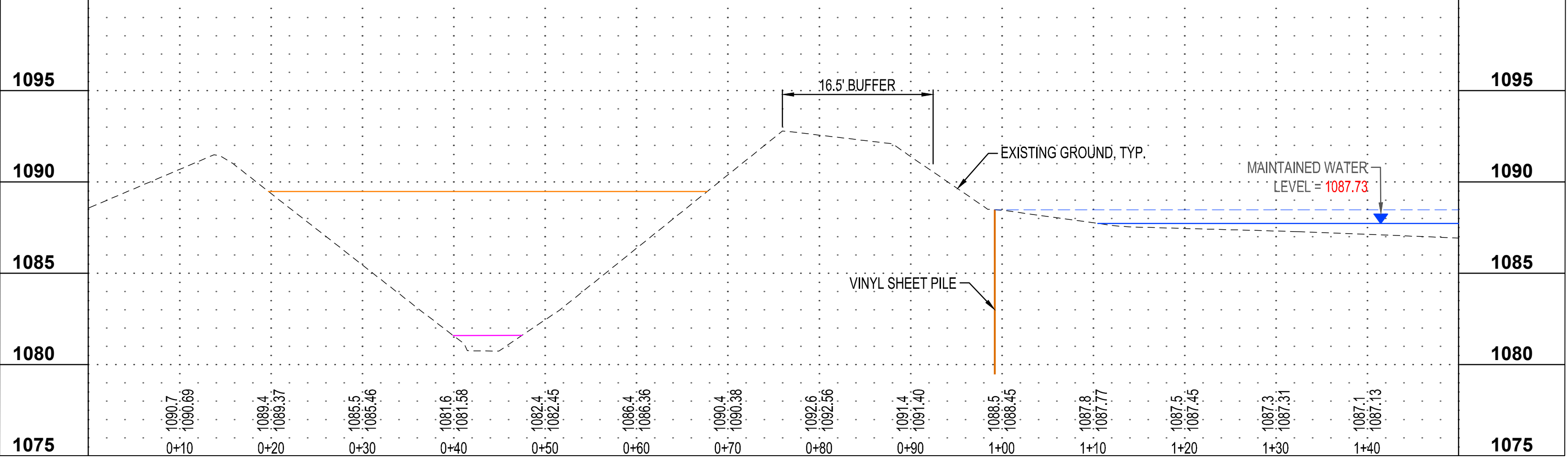
## XS-1



## XS-2



## XS-3



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PROJECT

**FARIBAUT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

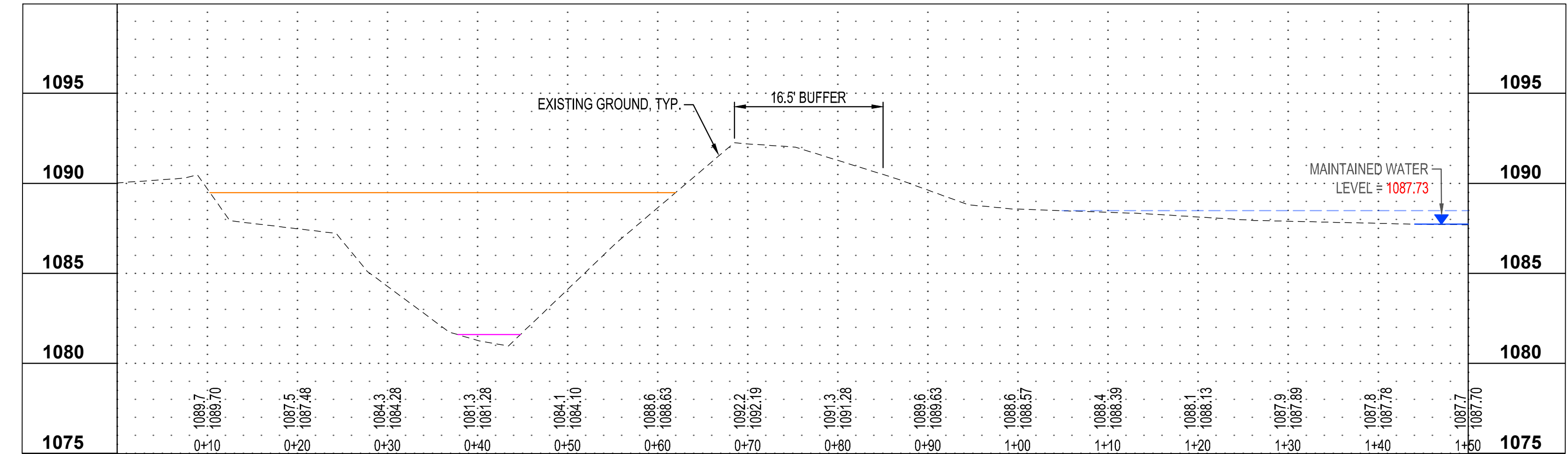
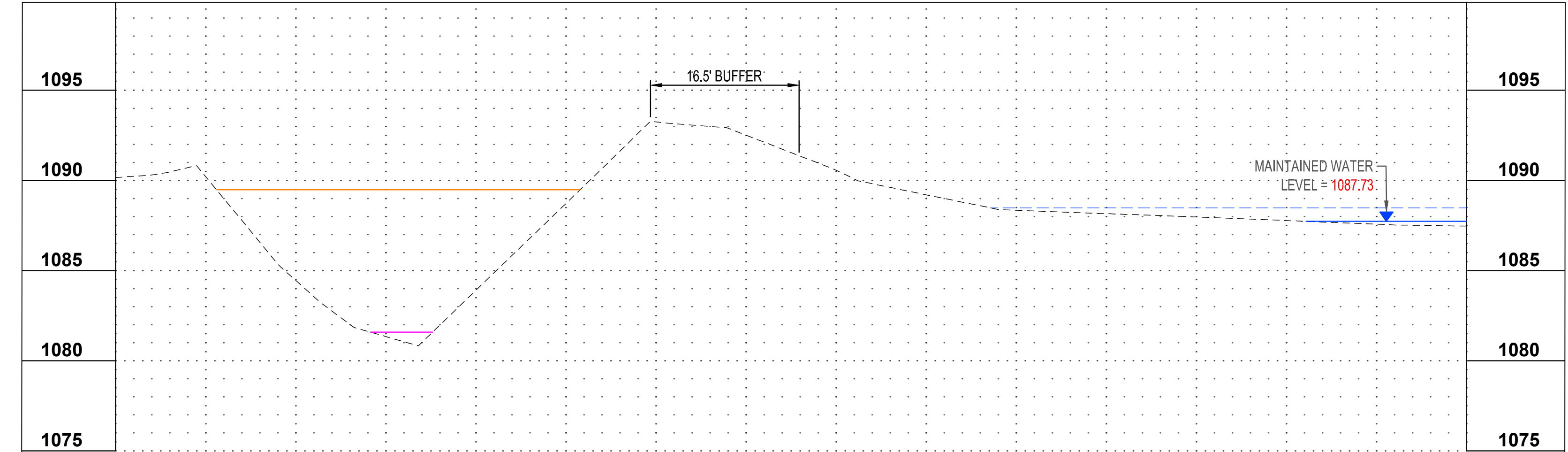
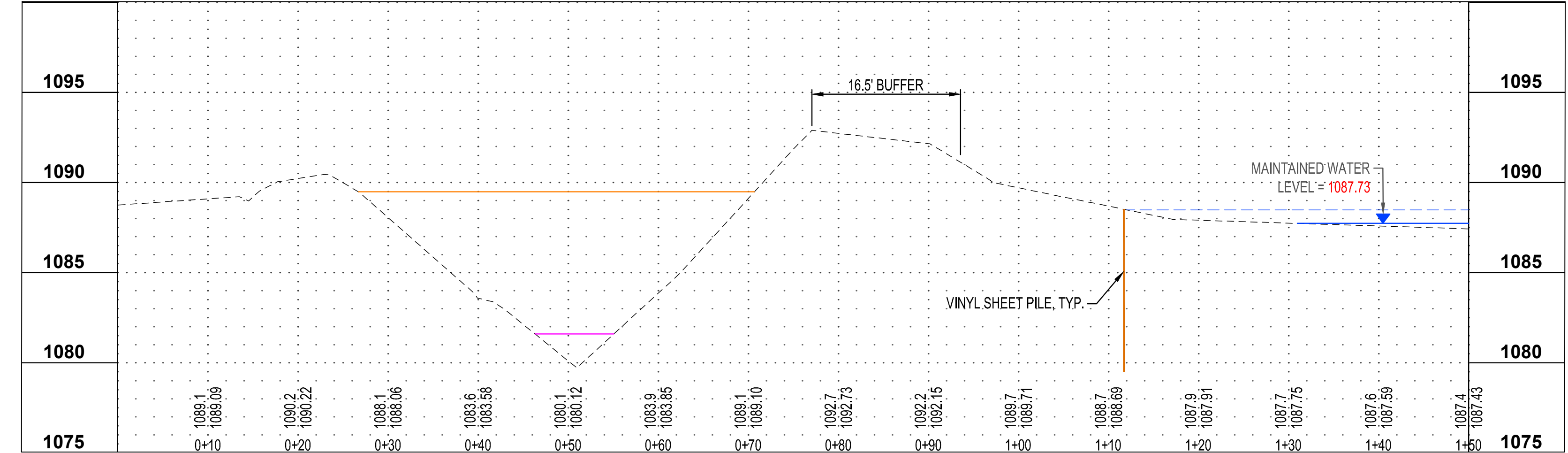
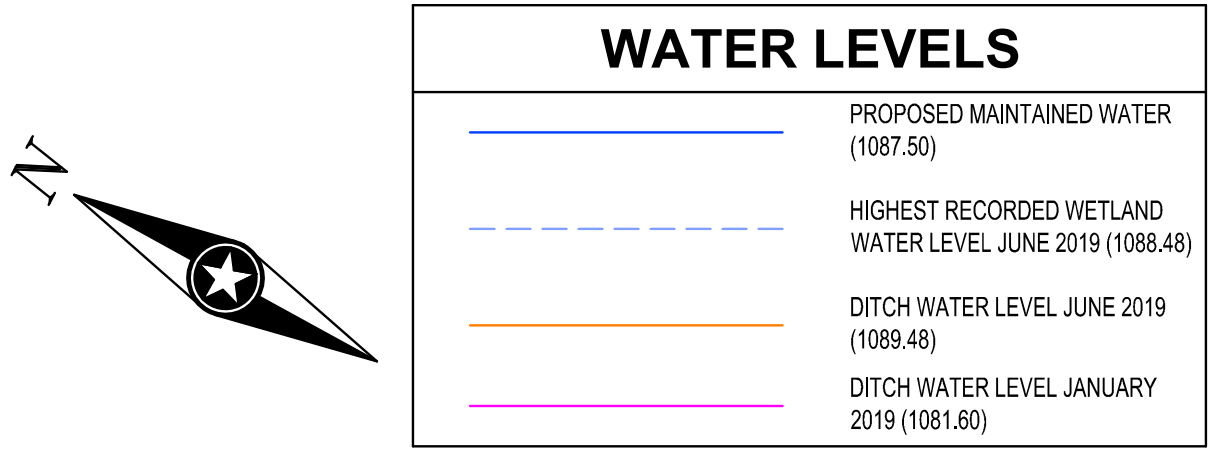
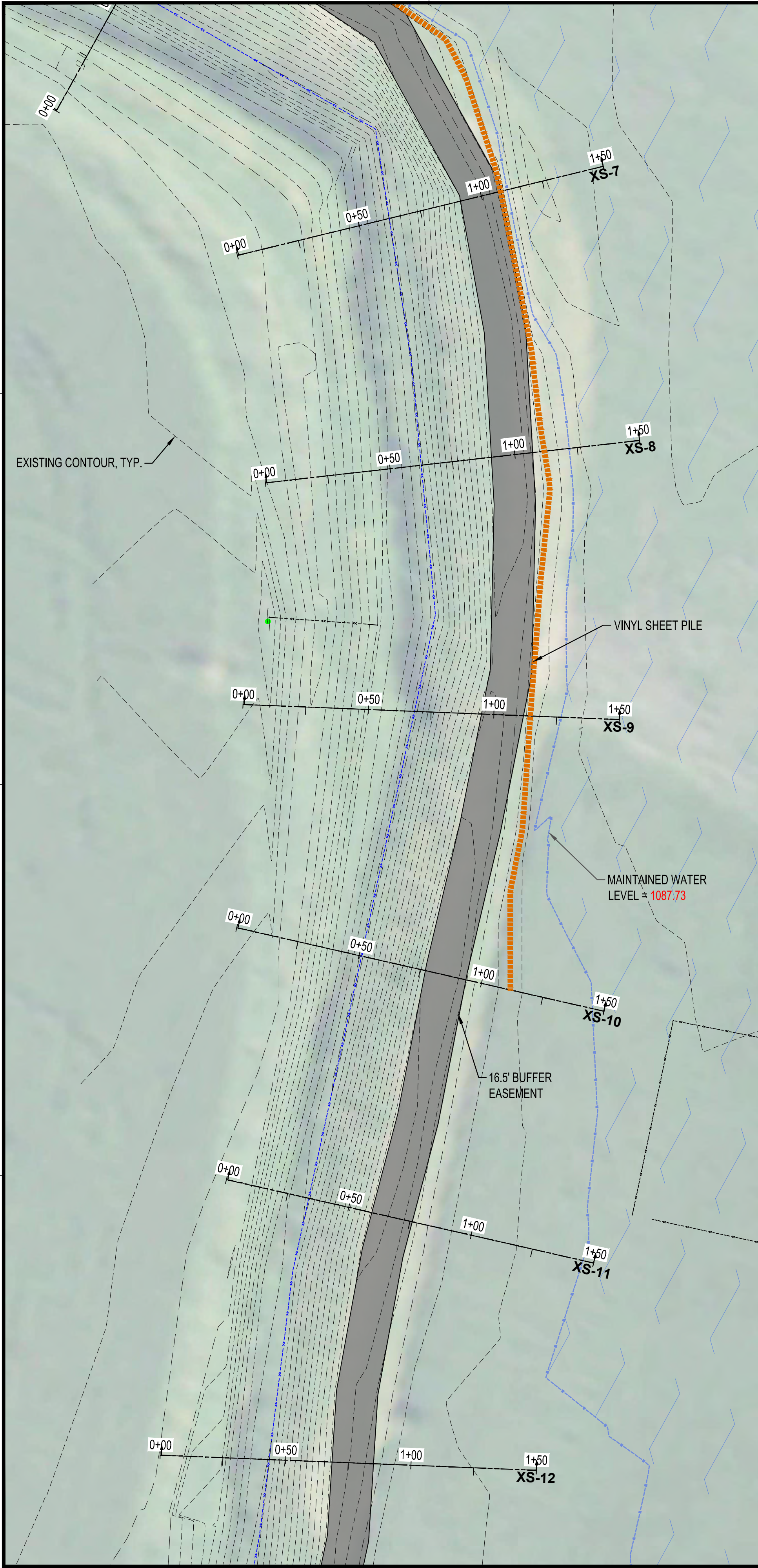
PROJECT NO.	18-21756
CAD FILE NAME	21756 XS PROFILES
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

**DITCH CROSS SECTIONS**

SHEET





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PROJECT

**FARIBAULT COUNTY**

**CD 514 BRANCH S**

PILOT GROVE TWP MINNESOTA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-21756
CAD FILE NAME	21756 XS PROFILES
DRAWN BY	JAG
DESIGNED BY	MAO/JAG
REVIEWED BY	MAO
ORIGINAL ISSUE DATE	10/11/2019
CLIENT PROJECT NO.	-

TITLE

**DITCH CROSS SECTIONS**

SHEET



## APPENDIX B: Construction Pictures





Wetland Excavation-Summer 2020



Wetland Excavation at Branch S Tile outlet





Wetland Excavation at Branch S Tile outlet



Completed Excavation in wetland and Branch S future tile outlet





Wetland outlet sheet pile installation



Final completed Branch S tile outlet into wetland





Wetland Outlet into CD 514



Wetland Outlet into CD 514





Typical vinyl sheet pile installation



Typical vinyl sheet pile after being buried



Typical Leland Ag Tile Installation



Leland outlet on South side of wetland





Weir installation prior to rip rap



Inlet downstream of weir



Outlet to CD 514 downstream of weir



Weir installation



## APPENDIX C: Contractor Invoices





## FARIBAULT COUNTY DRAINAGE SYSTEM PROJECT INVOICE FORM

To be submitted by Contractor/Claimant

<b>Drainage System #:</b> CD514		<b>Repair #:</b> 14-246	<b>Invoice Order #:</b> 5	
<b>Branch #:</b>	Branch S Improvement	<b>Commissioner District #:</b> 2		

**LOCATION**      Pilot Grove      3      SENE  
                          Township(s)      Section(s)      ¼, ¼ Section(s)

**LANDOWNER**    Name: Loren Benz      Phone #: \_\_\_\_\_

**CONTRACTOR/CLAIMANT**

Name: Trevor Leland  
 Address: 3618 520th Ave  
 City, State, Zip: Bricelyn, Minnesota 56014      Phone #: \_\_\_\_\_

**INSPECTION LOG**

Date: 07/24/2017    Co. Rep.: merissalore    Date: \_\_\_\_\_    Co. Rep.: \_\_\_\_\_  
 Date: \_\_\_\_\_    Co. Rep.: \_\_\_\_\_    Date: \_\_\_\_\_    Co. Rep.: \_\_\_\_\_

**DESCRIPTION OF REPAIR**

Ditch Repair:	Beaver/Beaver Dam – #:	<input type="checkbox"/>	
	Clean Out – Length in Feet:	<input type="checkbox"/>	
	Culvert/Crossing:	<input type="checkbox"/>	
	Slough:	<input type="checkbox"/>	
	Other:	<input type="checkbox"/>	
 Tile Repair:	Blowout – Tile Size and Type:	<input type="checkbox"/>	
	Replacement – Length in Feet:	X	240 lf of 15" and 340 lf of 30"
	Surface Intake – Size:	<input type="checkbox"/>	
	Tile Outlet – Size:	<input type="checkbox"/>	
	Other:	X	Daylight tile into restored wetland

**PAYMENT REQUEST (Attach Itemized Bill)**

**Payment will not be made without completed Form, Map & Itemized Bill**

Claimant Signature:		Date: 11/30/2020	Date     Warrant #
Total Cost:	\$37,378.56	6701	
Project Completion %:	100	Vendor #	
County Signature:	DA	41-767-6309	
Board Action Date:	2020-12-01	Account #	





**TREVOR LELAND**  
 PHONE: 507-340-3896 EMAIL: TL.LELAND9750@GMAIL.COM  
 3618 520<sup>TH</sup> AVE • BRICELYN, MN 56014

# Invoice

## Leland Drainage and Excavating

Date: 11/30/2020  
 Invoice # 1  
 Faribault County

TO:

Salesperson	Job	Payment Terms	Due Date
	514 branch s		

Qty	Description	Unit Price	Line Total
1	Mobilization	\$1,000.00	\$1,000.00
11/hrs	Tile investigation	\$90.00	\$990.00
340/ft	30 inch dual wall tile and installation	\$35.00	\$11,900.00
240/ft	15 inch dual wall tile and installation	\$23.00	\$5,520.00
1/ft	36 inch Cmp collar, rip rap and fabric for outlet	\$2,792.00	\$2,792.00
1	Cut and restore gravel road	\$1000.00	\$1,000.00
1	Common excavating	\$3,500.00	\$3,500.00
100.00/s.y.	Erosion control blanket	\$2.00	\$200.00
3	Connections to existing tile	\$600.00	\$1,800.00
1	Install drop 18 inch	\$2,000.00	\$2,000.00
1	Connect to existing 12 inch tile	\$1,000.00	\$1,000.00
197.05/ton	Granular pipe foundation	\$21.93	\$4,321.31
48.75/ton	Class V gravel for driveway	\$27.80	\$1,355.25

Subtotal	\$37,378.56
Sales Tax	
Total	\$37,378.56

**Make all checks payable to Trevor Leland**

*Thank you for your business!*





# **FARIBAULT COUNTY DRAINAGE SYSTEM PROJECT INVOICE FORM**

To be submitted by Contractor/Claimant

<b>Drainage System #:</b> CD514		<b>Repair #:</b> 14-246	<b>Invoice Order #:</b> 6	
<b>Branch #:</b>	Branch S	<b>Commissioner District #:</b> 2		

**LOCATION**

Pilot Grove  
Township(s)

3  
Section(s)

SENE  
¼, ¼ Section(s)

**LANDOWNER**

Name: Loren Benz

Phone #: \_\_\_\_\_

**CONTRACTOR/CLAIMANT**

Name: Loren Benz

Address: 302 Oak Knoll Court

City, State, Zip: Blue Earth, MN 56013

Phone #: \_\_\_\_\_

**INSPECTION LOG**

Date: 07/24/2017 Co. Rep.: merissalore Date: \_\_\_\_\_ Co. Rep.: \_\_\_\_\_

Date: \_\_\_\_\_ Co. Rep.: \_\_\_\_\_ Date: \_\_\_\_\_ Co. Rep.: \_\_\_\_\_

**DESCRIPTION OF REPAIR**

Ditch Repair: Beaver/Beaver Dam – #: \_\_\_\_\_

Clean Out – Length in Feet: \_\_\_\_\_

Culvert/Crossing: \_\_\_\_\_

Slough: \_\_\_\_\_

Other: \_\_\_\_\_

Tile Repair: Blowout – Tile Size and Type: \_\_\_\_\_

Replacement – Length in Feet: \_\_\_\_\_

Surface Intake – Size: \_\_\_\_\_

Tile Outlet – Size: \_\_\_\_\_

Other: \_\_\_\_\_

Re-seed disturbed area due to Branch S Improvement

**PAYMENT REQUEST (Attach Itemized Bill)**

**Payment will not be made without completed Form, Map & Itemized Bill**

Claimant Signature:		Date: 12/31/2020	Date	Warrant #	
Total Cost:	\$320.00	7254			
Project Completion %:	100	Vendor #			
County Signature:	DA	41-767-6309			
Board Action Date:	2021-01-05	Account #			



Make all checks payable to Loren Benz  
302 Oak Knoll Court, Blue Earth, MN 56013