



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

LUDS LANE AND FEMRITE DRIVE CSM

CITY PROJECT NO. 14950
CONTRACT NO. 9481

INDEX OF SHEETS

SHEET NO.	STANDARD NOTES
D1	STANDARD NOTES
D2-D5	TYPICAL SECTIONS
O1	OVERVIEW PLAN
ST1-ST2	NOTES & SPECIFICATIONS
ST3	WET BASIN DETAILS & SPECIFICATIONS
ST4	GRASSED SWALE DETAILS & SPECIFICATIONS
ST5-ST6	GRADING & EROSION CONTROL PLAN
P1-P8	STREET PLAN & PROFILES
U1-U7	SEWER PLAN & PROFILES
U8	SANITARY SEWER SCHEDULE
U9	STORM SEWER SCHEDULE
WI-W6	WATER PLAN & PROFILE
W7	WATER IMPACT PLAN
W8	WATER ESTIMATE OF MATERIALS
PM1-PM3	PAVEMENT MARKING PLAN
X1-X19	CROSS SECTIONS
MN1	MAINTENANCE PLAN (CITY USE ONLY)

PROJECT
LOCATION



PUBLIC IMPROVEMENT PROJECT
APPROVED

MAY 21, 2024

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

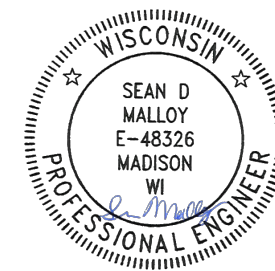
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Oct 23, 2024

City Engineer

Date

PAVEMENT MARKING
DESIGNED BY:



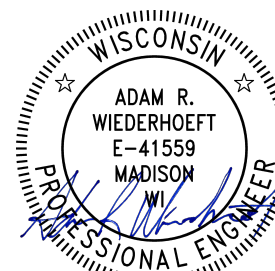
Oct 23, 2024

STREET
DESIGNED BY:



Oct 23, 2024

WATER
DESIGNED BY:



Oct 24, 2024

SANITARY SEWER
DESIGNED BY:



Oct 23, 2024

STORM WATER MANAGEMENT
DETAILS DESIGNED BY:



Oct 24, 2024

STORM SEWER
DESIGNED BY:



Oct 23, 2024

PLOT SCALE: 1:1_XREF

PLOT NAME: ---

REV. DATE: 10/23/2024 7:24 AM

ORIGINATOR: CITY_OF_MADISON

ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY CITY FORESTRY BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRE APPROVAL AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLANS ARE APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS AND CITY FORESTRY WILL REQUIRE A MINIMUM OF A 72-HOUR REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHO'S DISTRICT IS AFFECTED BY THE STREET TREE REMOVAL(S) PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED.

AS DEFINED BY SECTION 107.13 OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION: NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE TRUNK OF THE STREET TREE OR WHEN CUTTING ROOTS OVER 3 INCHES IN DIAMETER. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY (266-4816) PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: www.cityofmadison.com/engineering/developers-contractors/standard-specifications

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.

CONTACT THE PROJECT ENGINEER AND DESIGNER, IKE OKAFOR, AT IOKAFOR@CITYOFMADISON.COM FOR CAD FILES AND ALIGNMENT DATA PRIOR TO STAKING.

ALL PAVEMENT IN THE LUDS LANE, LUDS COURT AND COUNTY HIGHWAY A-B RIGHTS-OF-WAY SHALL BE TYPE C PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADE OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL TYPICALLY BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.04. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

CURB STATION AND OFFSETS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK UNLESS OTHERWISE INDICATED ON THE PLANS.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS RIGHT-OF-WAY PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.




CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO S.D.D 3.05.


ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.

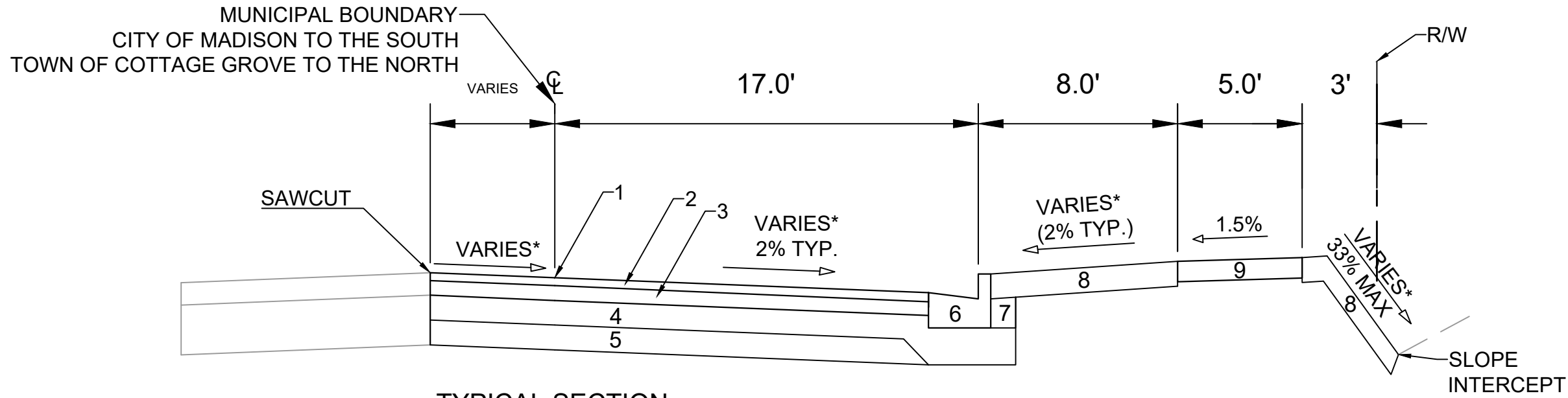
ALL PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY ARE BASED ON SURVEY DATA PROVIDED BY THE DEVELOPER OR ITS CONSULTANT. IN THE CASE THAT THE PROPOSED IMPROVEMENTS CAN NOT BE INSTALLED PER THESE PLANS OR THE CITY OF MADISON STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE COST OF EXTRA WORK DUE TO INACCURACIES OF THE SURVEY.

ALL UTILITY VERIFICATIONS AND ACCURACY OF THE DRAWINGS ARE THE RESPONSIBILITY OF THE DEVELOPER. ANY CONFLICTS THAT ARISE FROM MISSING OR ERRONEOUS INFORMATION WILL BE AT THE EXPENSE OF THE DEVELOPER. NO PRECAST STRUCTURES WILL BE APPROVED FOR STORM OR SANITARY SEWER UNTIL ALL POTENTIAL UTILITY CONFLICTS ARE RESOLVED.

IN LOCATIONS WHERE PAVEMENT RESTORATION IS NOT IDENTIFIED ADJACENT TO CURB AND GUTTER REPLACEMENT, IT IS ASSUMED THAT CURB AND GUTTER WILL BE REPLACED WITHOUT DAMAGING ADJACENT PAVEMENT. IF DAMAGED, THE MILL AND OVERLAY LIMITS SHALL BE EXTENDED BY THE CITY CONSTRUCTION ENGINEER AS NECESSARY TO MEET THE STANDARD PATCHING CRITERIA.

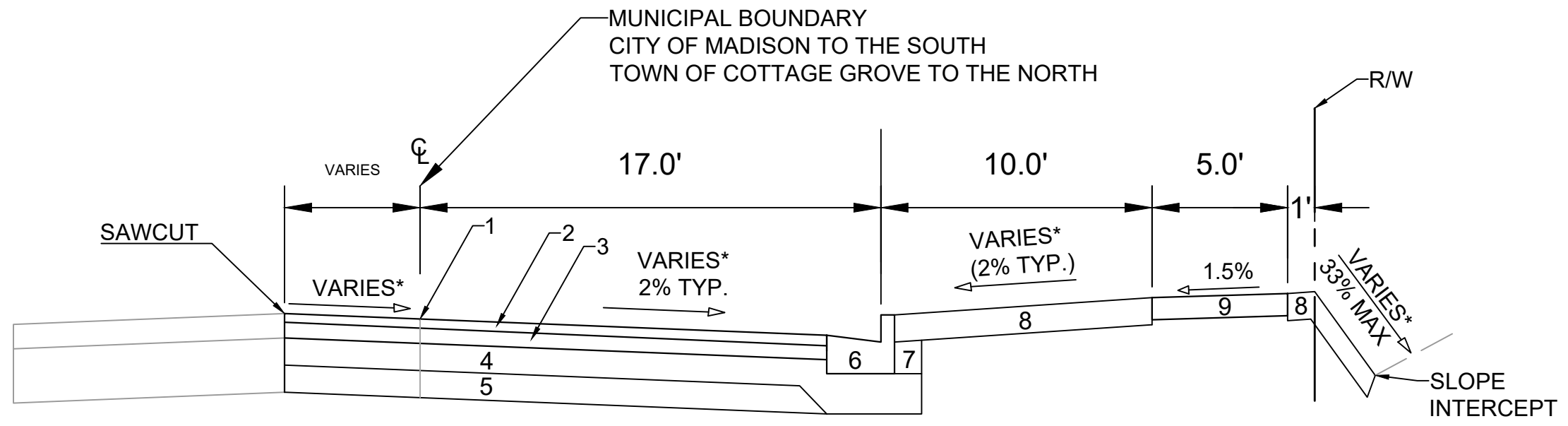
<i>CONVENTIONAL SIGNS</i>	
<i>FIELD VERIFY ALL UTILITY LOCATIONS</i>	
<i>GAS</i>	— G —
<i>STORM SEWER</i>	— ST —
<i>SANITARY SEWER</i>	— SAN —
<i>WATER</i>	— W —
<i>BURIED ELECTRIC</i>	— E —
<i>OVERHEAD ELECTRIC</i>	— OH —
<i>POWER POLE</i>	
<i>ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD</i>	
<i>COMBUSTIBLE FLUIDS</i>	

14950	MADISON, WI	9481	14950	D-1
STANDARD NOTES		CONTRACT NO:		
LUDS LANE AND FEMRITE DRIVE CSM		M:\DESIGN\Projects\14950\CAD\Streets\14950EN-Details.dwg		
				
14950				
D-1				



TYPICAL SECTION
 LUDS LANE
 STA15+65 TO STA 20+50
 (NOT TO SCALE)

- 1 POINT REFERRED TO ON PROFILE
- 2 2.0" H.M.A. PAVEMENT- TYPE 4 MT 58-28 S
- 3 3.5" H.M.A. PAVEMENT- TYPE 3 MT 58-28 S
- 4 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- 5 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- 6 CONCRETE CURB AND GUTTER TYPE 'A'.
- 7 FILL
- 8 6" TOPSOIL, SEED AND MATTING
- 9 5" CONCRETE SIDEWALK



TYPICAL SECTION
 LUDS LANE
 STA13+05 TO STA15+65
 STA20+50 TO STA22+69
 (NOT TO SCALE)

- 1 POINT REFERRED TO ON PROFILE
- 2 2.0" H.M.A. PAVEMENT- TYPE 4 MT 58-28 S
- 3 3.5" H.M.A. PAVEMENT- TYPE 3 MT 58-28 S
- 4 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- 5 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- 6 CONCRETE CURB AND GUTTER TYPE 'A'.
- 7 FILL
- 8 6" TOPSOIL, SEED AND MATTING
- 9 5" CONCRETE SIDEWALK

SPECIAL NOTES:

*SEE P & X SHEETS FOR CROSS SLOPES

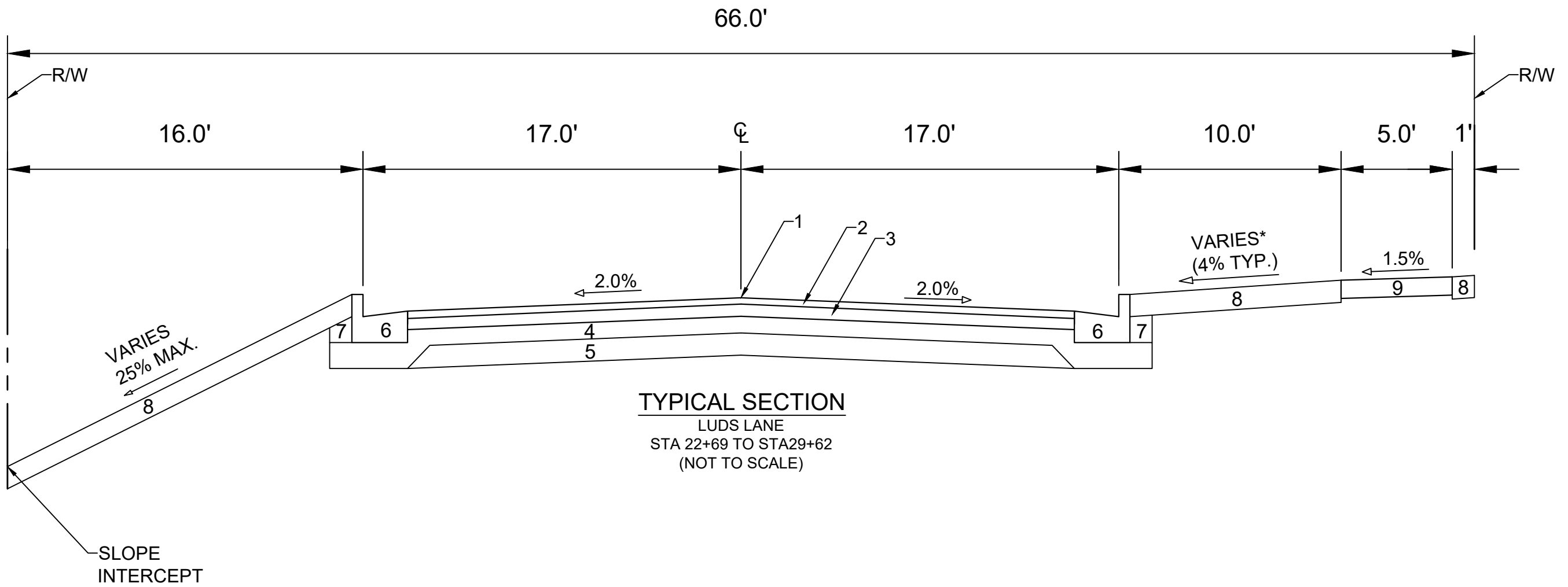
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14950
 MADISON, WI
 CONTRACT NO: 9481

TYPICAL SECTIONS
 LUDS LANE AND FEMRITE DRIVE CSM
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14950
 D-2



TYPICAL SECTION
 LUDS LANE
 STA 22+69 TO STA29+62
 (NOT TO SCALE)

SPECIAL NOTES:

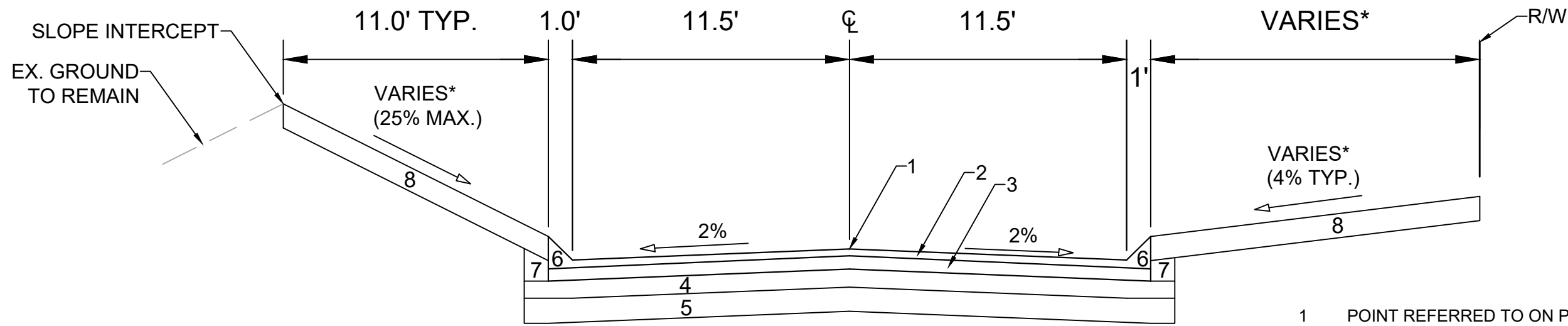
*SEE P & X SHEETS FOR CROSS SLOPES

- 1 POINT REFERRED TO ON PROFILE
- 2 2.0" H.M.A. PAVEMENT- TYPE 4 MT 58-28 S
- 3 3.5" H.M.A. PAVEMENT- TYPE 3 MT 58-28 S
- 4 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- 5 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- 6 CONCRETE CURB AND GUTTER TYPE 'A'.
- 7 FILL
- 8 6" TOPSOIL, SEED AND MATTING
- 9 5" CONCRETE SIDEWALK

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14950		10/22/2024	14950
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14950
 MADISON, WI
 CONTRACT NO: 9481
 TYPICAL SECTIONS
 LUDS LANE AND FEMRITE DRIVE CSM
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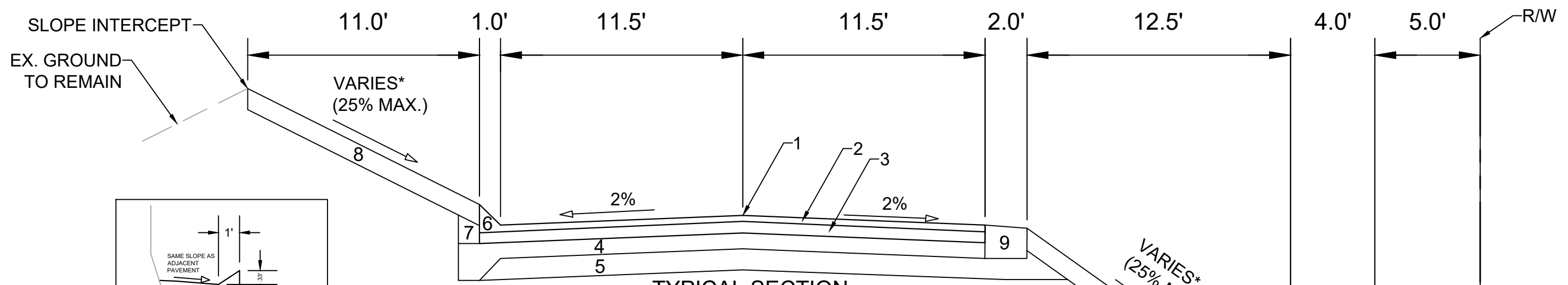




TYPICAL SECTION
LUDS COURT
STA 52+00 TO LUDS LANE

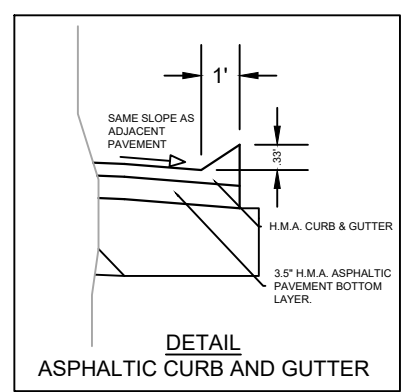
- 1 POINT REFERRED TO ON PROFILE
- 2 2.0" H.M.A. PAVEMENT- TYPE 4 MT 58-28 S
- 3 3.5" H.M.A. PAVEMENT- TYPE 3 MT 58-28 S
- 4 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- 5 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- 6 ASPHALTIC CURB & GUTTER, SEE DETAIL
- 7 FILL
- 8 6" TOPSOIL, SEED AND MATTING
- 9 5" CONCRETE SIDEWALK

SPECIAL NOTES:
*SEE P & X SHEETS FOR CROSS SLOPES



TYPICAL SECTION
LUDS COURT
STA 51+44 TO STA 52+00

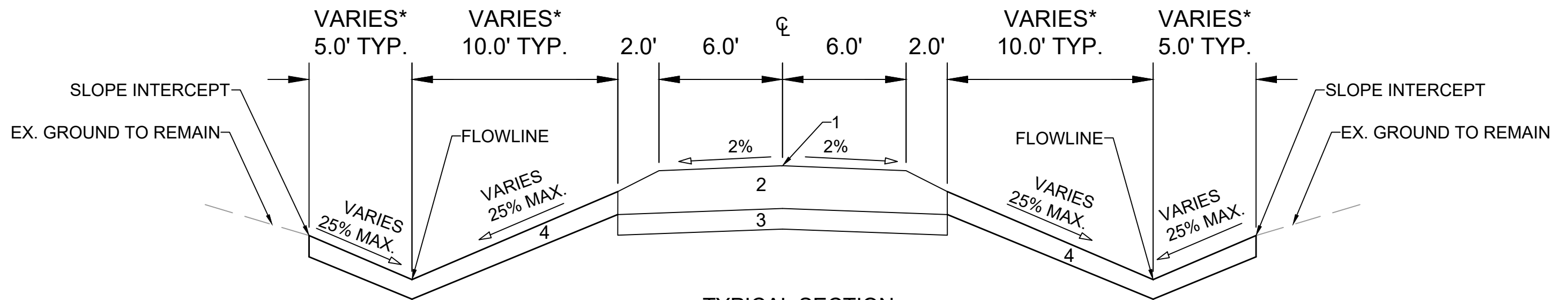
- 1 POINT REFERRED TO ON PROFILE
- 2 2.0" H.M.A. PAVEMENT- TYPE 4 MT 58-28 S
- 3 3.5" H.M.A. PAVEMENT- TYPE 3 MT 58-28 S
- 4 6" CRUSHED AGGREGATE BASE COURSE GRADATION 2
- 5 6" CRUSHED AGGREGATE BASE COURSE GRADATION 1
- 6 ASPHALTIC CURB & GUTTER, SEE DETAIL
- 7 FILL
- 8 6" TOPSOIL, SEED AND MATTING
- 9 5.5" CRUSHED AGGREGATE BASE COURSE GRADATION 3
- 10 6" TOPSOIL, SEED, AND EROSION MAT CLASS II, URBAN TYPE B



SPECIAL NOTES:
*SEE P & X SHEETS FOR CROSS SLOPES

PR. DEVELOPMENT
GROUND

14950	MADISON, WI	9481	14950	D-4
CONTRACT NO:				
TYPICAL SECTIONS				
LUDS LANE AND FEMRITE DRIVE CSM				
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D-4				



TYPICAL SECTION
 SANITARY MAINTENANCE PATH N-S AND W-E
 (NOT TO SCALE)

SPECIAL NOTES:

*SEE P & X SHEETS FOR CROSS SLOPES

- 1 POINT REFERRED TO ON PROFILE.
- 2 10" CRUSHED AGGREGATE BASE COURSE GRADATION 2.
- 3 FILL
- 4 6" TOPSOIL, NATIVE SEED MIX AND MATTING.

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14950
 MADISON, WI
 CONTRACT NO: 9481

TYPICAL SECTIONS
 LUDS LANE AND FEMRITE DRIVE CSM
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14950
 D-5

LEGEND

SURFACE PAVING BY DEVELOPER
UNDER CONTRACT NO. 9481

TOWN OF COTTAGE GROVE

LUDS LANE

7501 LUDS LANE

7625 LUDS LANE

LUDS COURT

PROPOSED DEVELOPMENT
DANE COUNTY PSC FACILITY



OVERVIEW PLAN

LUDS LANE AND FEMRITE DRIVE CSM

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O-1

14950

MADISON, WI

9481

CONTRACT NO:

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LEGEND

- = DRAINAGE FLOW PATH
- = PAVEMENT SAWCUT
- = 2.25" MILL & OVERLAY (TYPE 4 MT 58-28 S). LIMITS SHOWN ARE APPROXIMATE AND CAN BE MODIFIED BY THE CITY CONSTRUCTION ENGINEER.
- = 10" CONCRETE SIDEWALK AND DRIVE APRON

TOWN OF COTTAGE GROVE

MUNICIPAL LIMITS;
NORTH IS TOWN OF COTTAGE GROVE
SOUTH IS CITY OF MADISON



CTY HWY AB

LUDS LANE

MATCH LINE 17+50.00

STA 12+91.67, 5.00' LT
889.90 SAWCUT PI/MATCH

STA 13+05.79, 1.15
889.47 EP/PI

STA 12+91.67, 15.75' RT
889.72 EP/MATCH EX.

STA 12+92.95, 32.00' RT
890.23 BW/BEGIN SIDEWALK

5" CONCRETE SIDEWALK

EX. ALLIANT ENERGY -
UNDGRD ELEC

EX. ALLIANT ENERGY -
GAS

SLOPE INTERCEPT

EX. MUFN - FIBER

THE DEVELOPER SHALL COORDINATE THE RELOCATION OR
ADJUSTMENT OF UTILITY STRUCTURE WITH UTILITY OWNER.

**7501 LUDS LANE
DANE COUNTY MEDICAL EXAMINER**

STA 15+50.00, 32.00' RT
888.62 BW/ END 2% TERRACE

STA 15+61.97, 32.00' RT
888.39 BW/ PI

STA 15+71.97, 30.00' RT
888.18 BW/ PI

STA 15+84.48, 30.00' RT
887.78 BW/ BEGIN 10" SIDEWALK

STA 15+97.33, 30.00' RT
887.59 BW/ BEGIN DRIVEWAY

**7625 LUDS LANE
DANE COUNTY EAST DISTRICT CAMPUS
HIGHWAY FACILITY**

STA 16+57.38, 30.00' RT
886.62 BW/ END DRIVEWAY

STA 16+48.12, 42.00' RT
885.92 SAWCUT/ MATCH EX DRIVEWAY

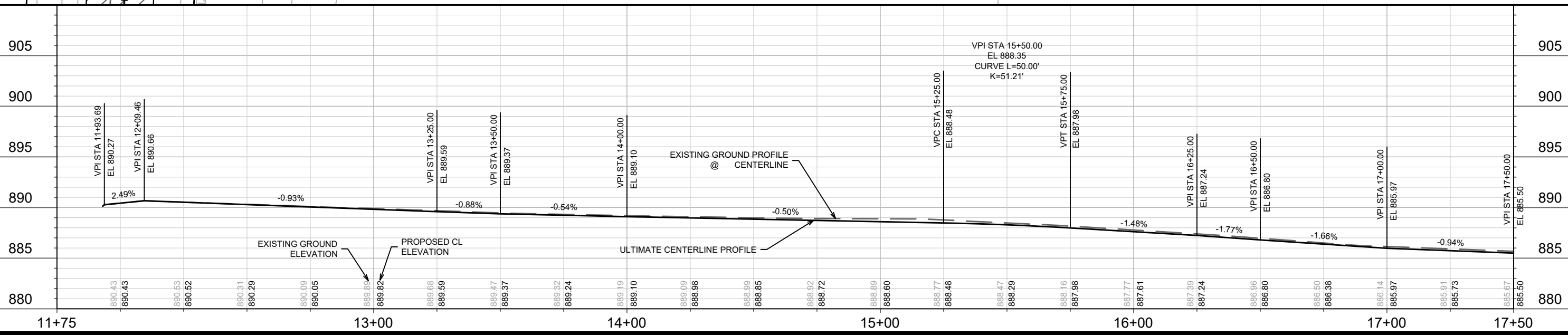
10" CONCRETE SIDEWALK & DRIVEWAY APRON

3" ASPHALT DRIVEWAY, 4 LT 58-28 S
INSTALL PER SECTION 402.3 OF THE CITY OF MADISON
STANDARD SPECIFICATIONS FOR PUBLIC WORKS
CONSTRUCTION, LATEST EDITION

STA 16+09.33, 42.03' RT
886.46 SAWCUT/ MATCH EX. DRIVEWAY

STA 17+00.00, 30.00' RT
886.28 BW/ BEG. 2% TERR.

STA 16+97.91, 42.00' RT
881.87 FL/DITCH PI*



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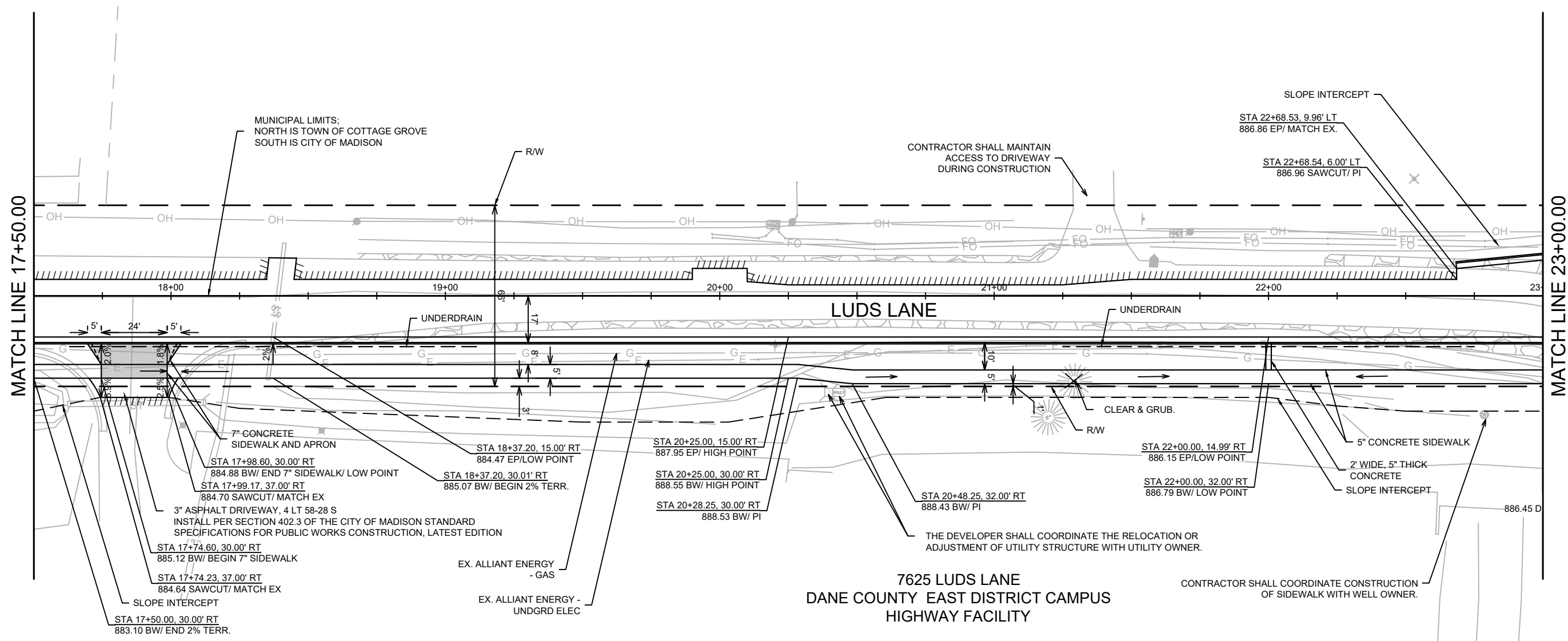
14950
MADISON, WI
9481
CONTRACT NO:

STREET PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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MATCH LINE 17+50.00

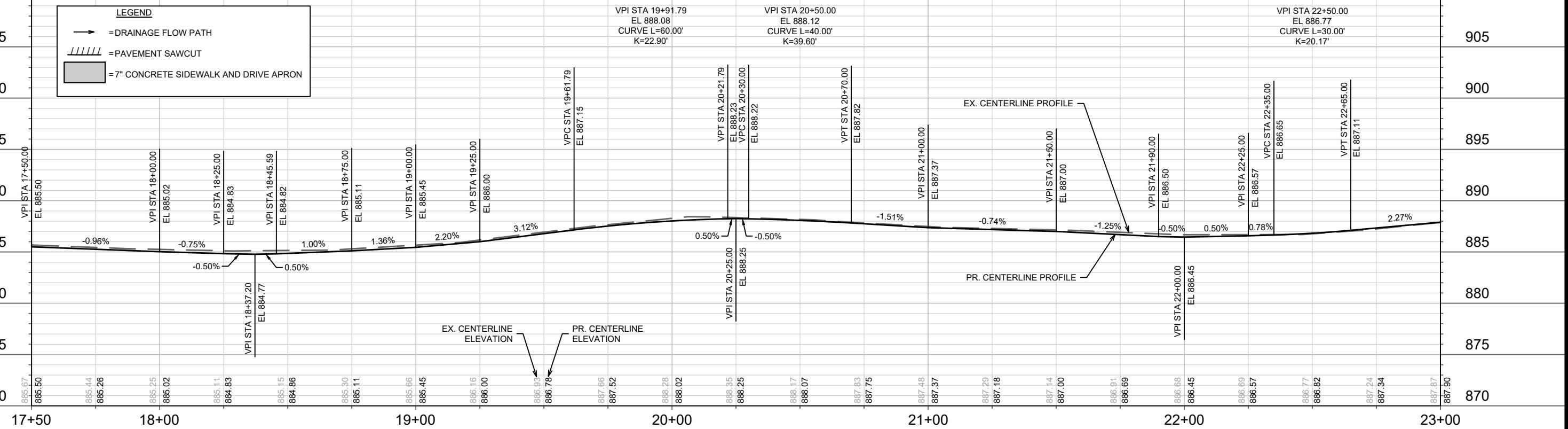
MATCH LINE 23+00.00



7625 LUDS LANE
DANE COUNTY EAST DISTRICT CAMPUS
HIGHWAY FACILITY

LEGEND

- = DRAINAGE FLOW PATH
- //// = PAVEMENT SAWCUT
- = 7" CONCRETE SIDEWALK AND DRIVE APRON

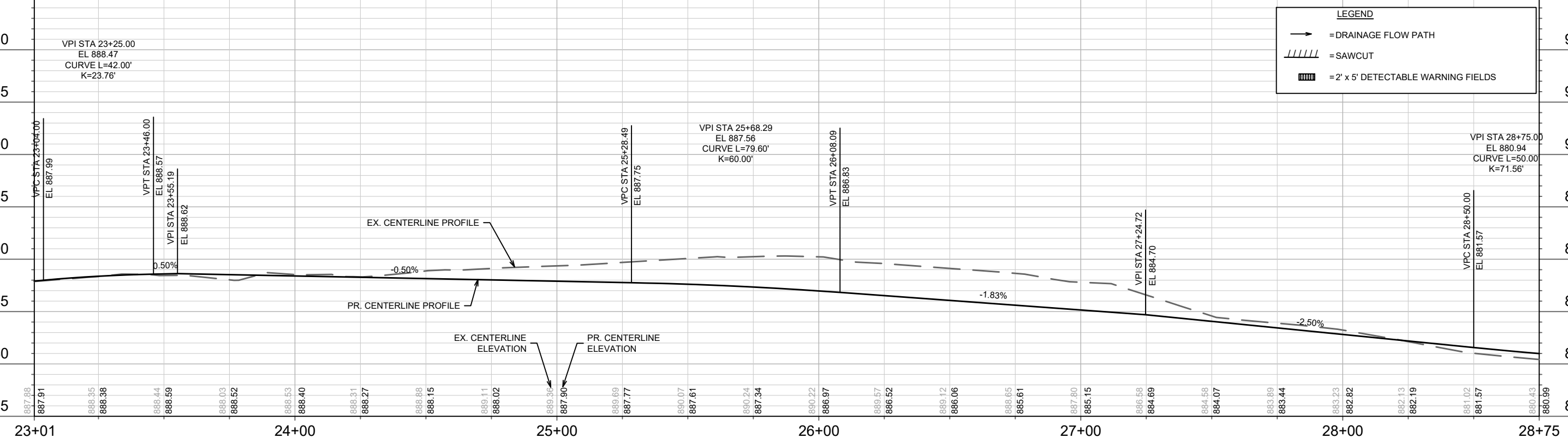
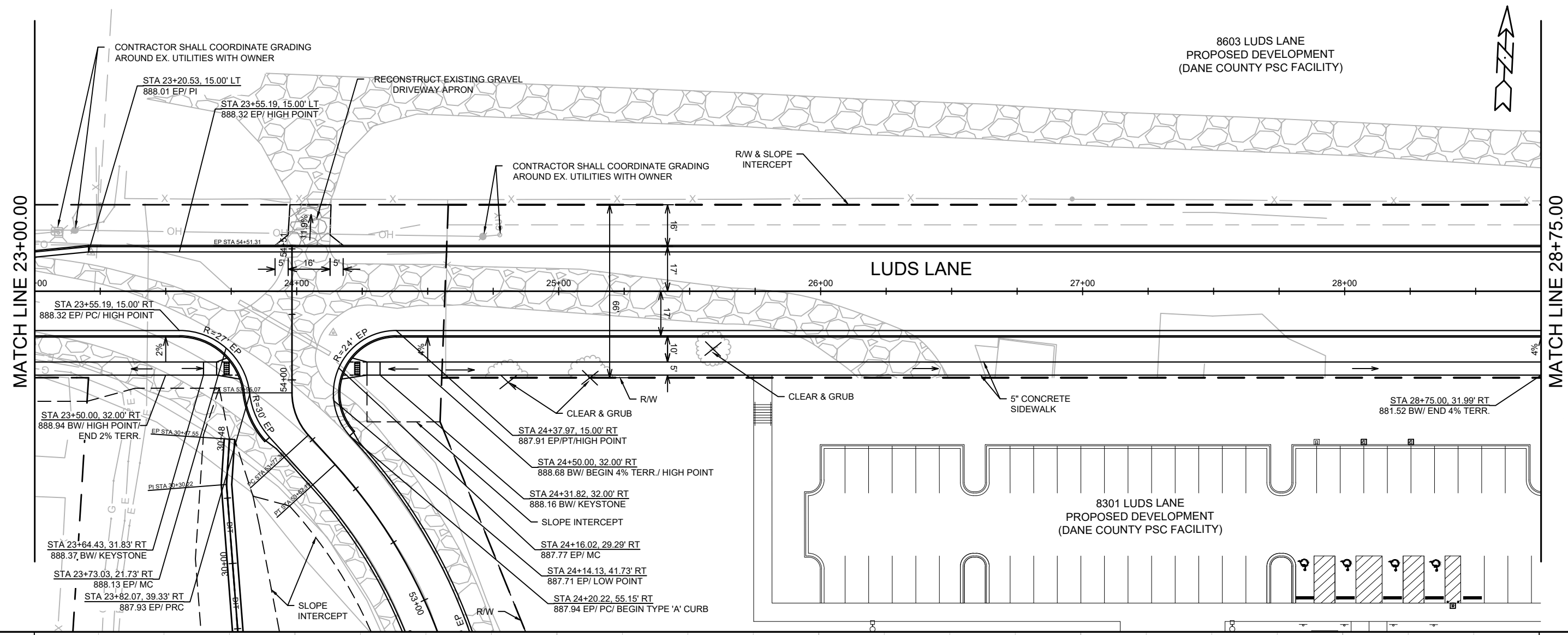


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BY	P-2
REVISION	
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14950
MADISON, WI
CONTRACT NO.: 9481

STREET PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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LEGEND	
	= DRAINAGE FLOW PATH
	= SAWCUT
	= 2' x 5' DETECTABLE WARNING FIELDS

8603 LUDS LANE
PROPOSED DEVELOPMENT
(DANE COUNTY PSC FACILITY)

8301 LUDS LANE
PROPOSED DEVELOPMENT
(DANE COUNTY PSC FACILITY)

DATE	BY
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MARK	
Designed By: ID	14950
Date: 10/23/2024 11:27 AM	
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P-3	

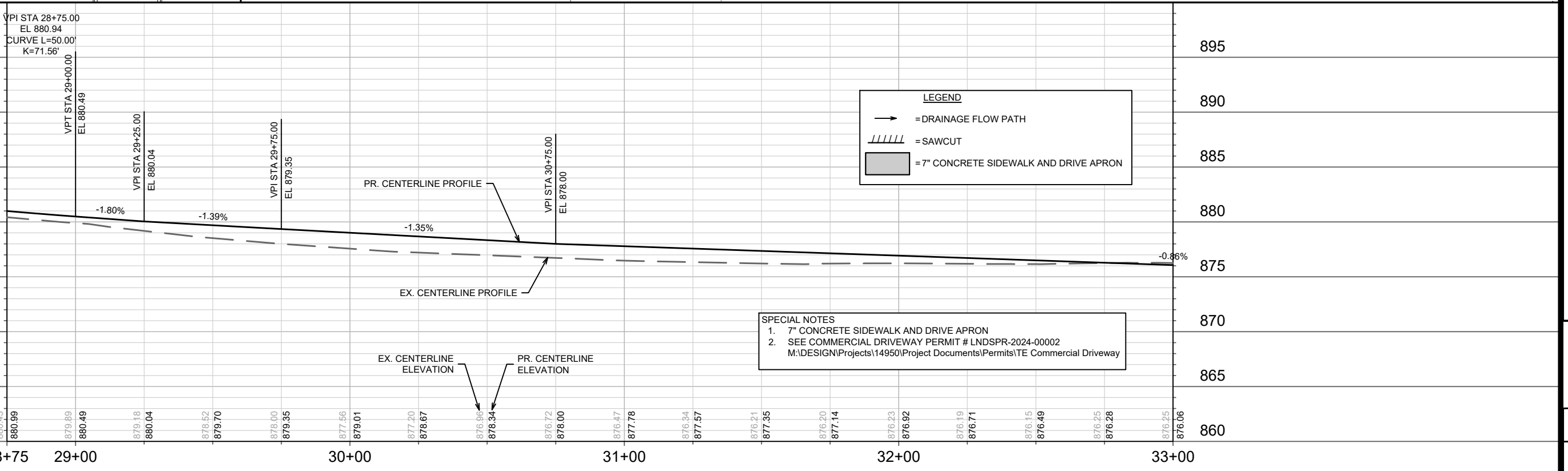
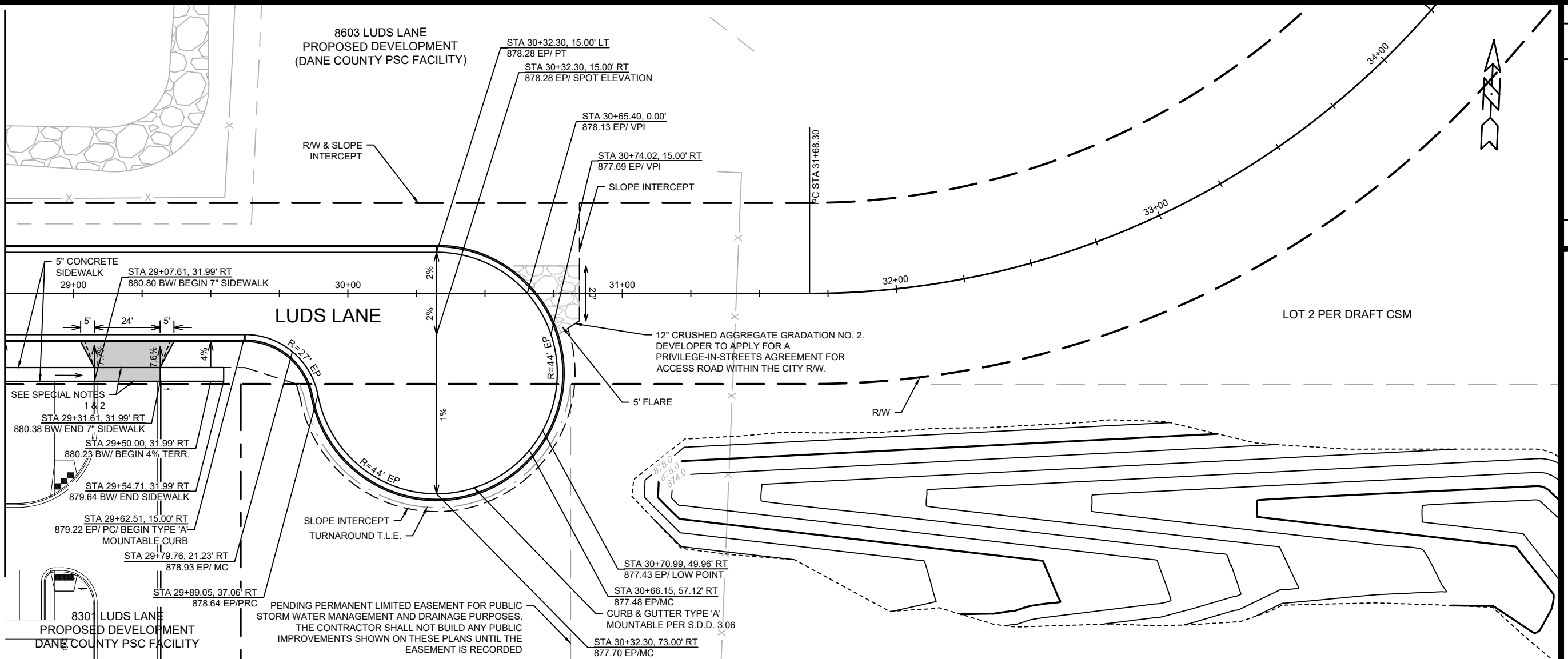
14950
MADISON, WI
CONTRACT NO: 9481

STREET PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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14950
P-3

MATCH LINE 28+75.00



SPECIAL NOTES
 1. 7" CONCRETE SIDEWALK AND DRIVE APRON
 2. SEE COMMERCIAL DRIVEWAY PERMIT # LNDSPR-2024-00002
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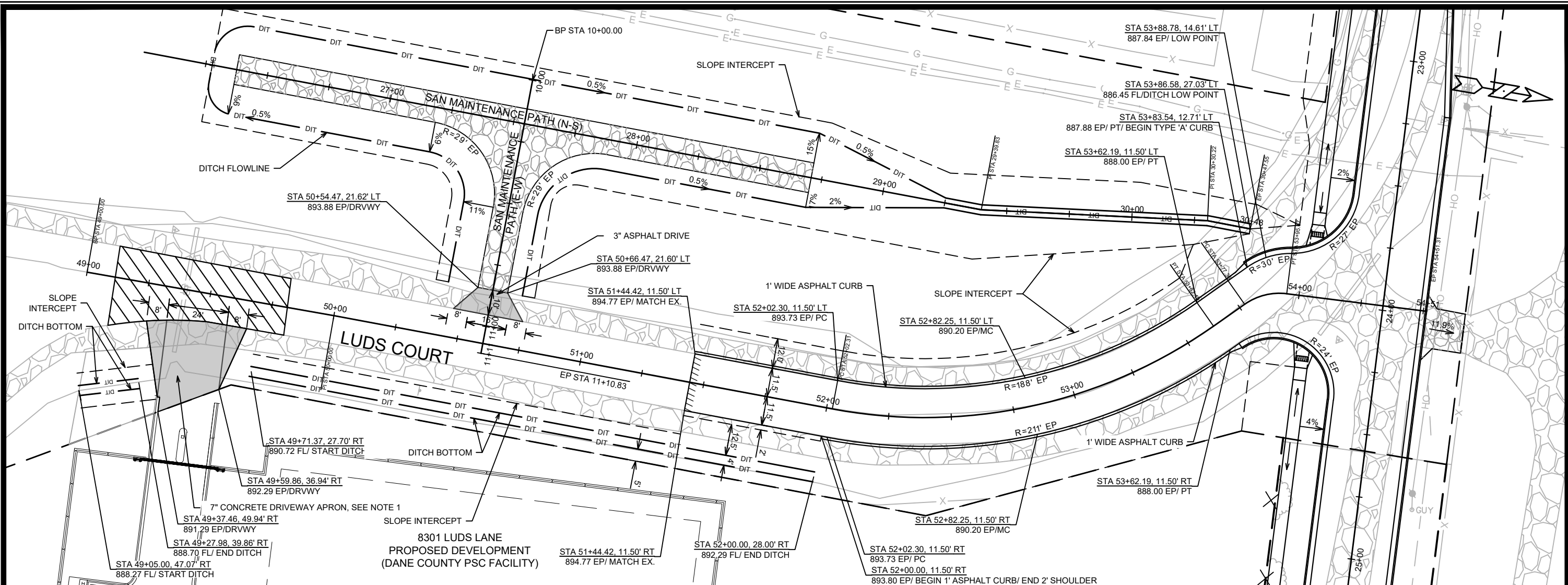
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14950
 MADISON, WI
 CONTRACT NO: 9481

STREET PLAN & PROFILE - LUDS LANE
 LUDS LANE AND FEMRITE DRIVE CSM
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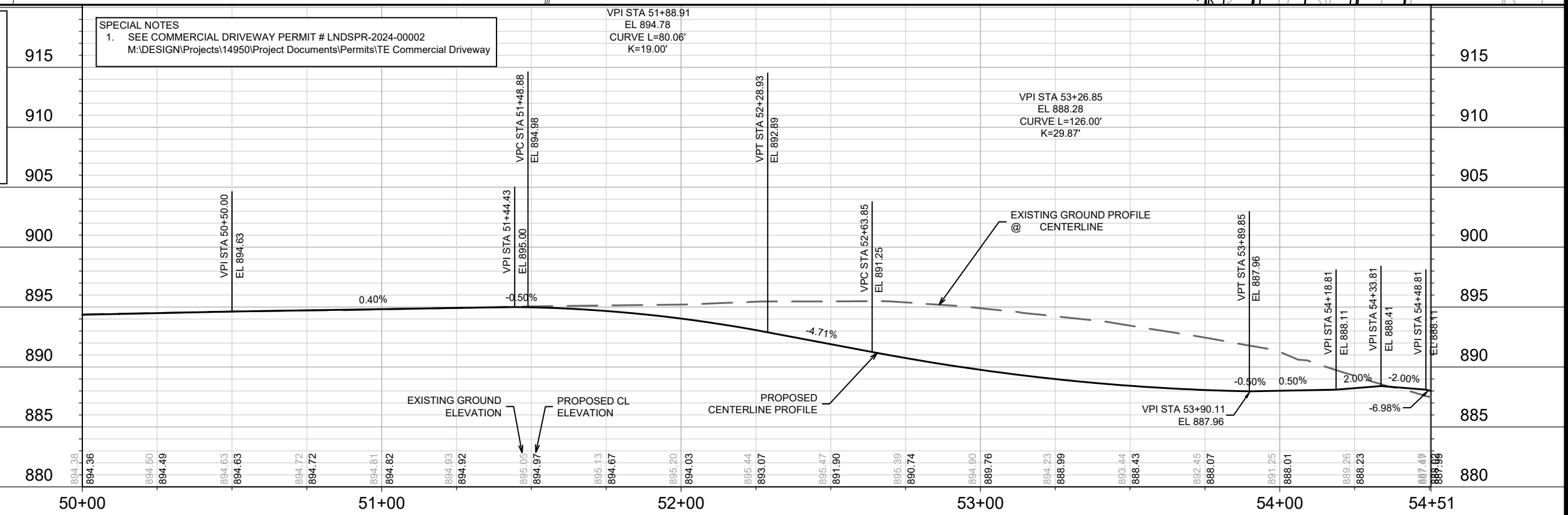


14950
 P-4



LEGEND

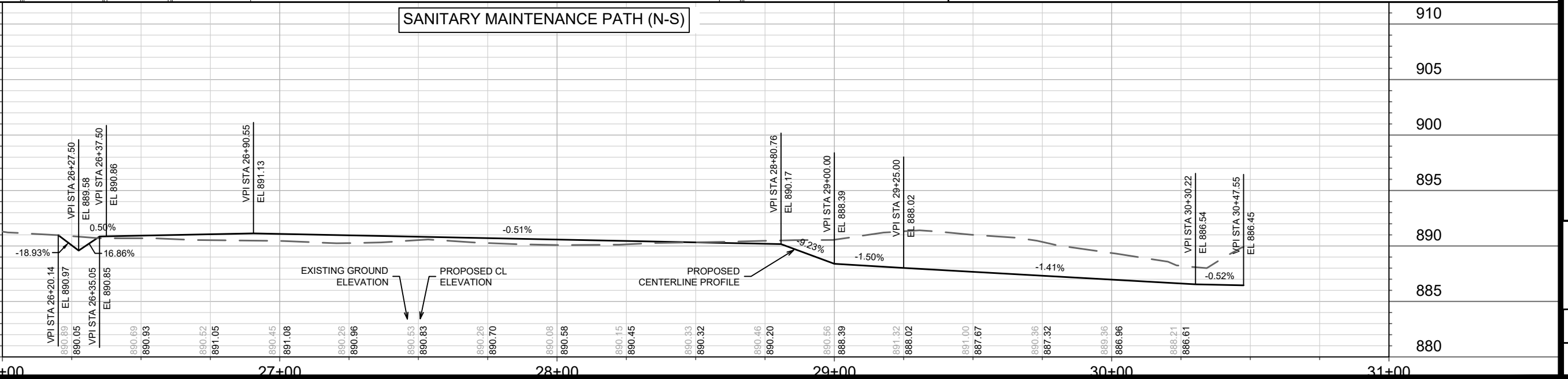
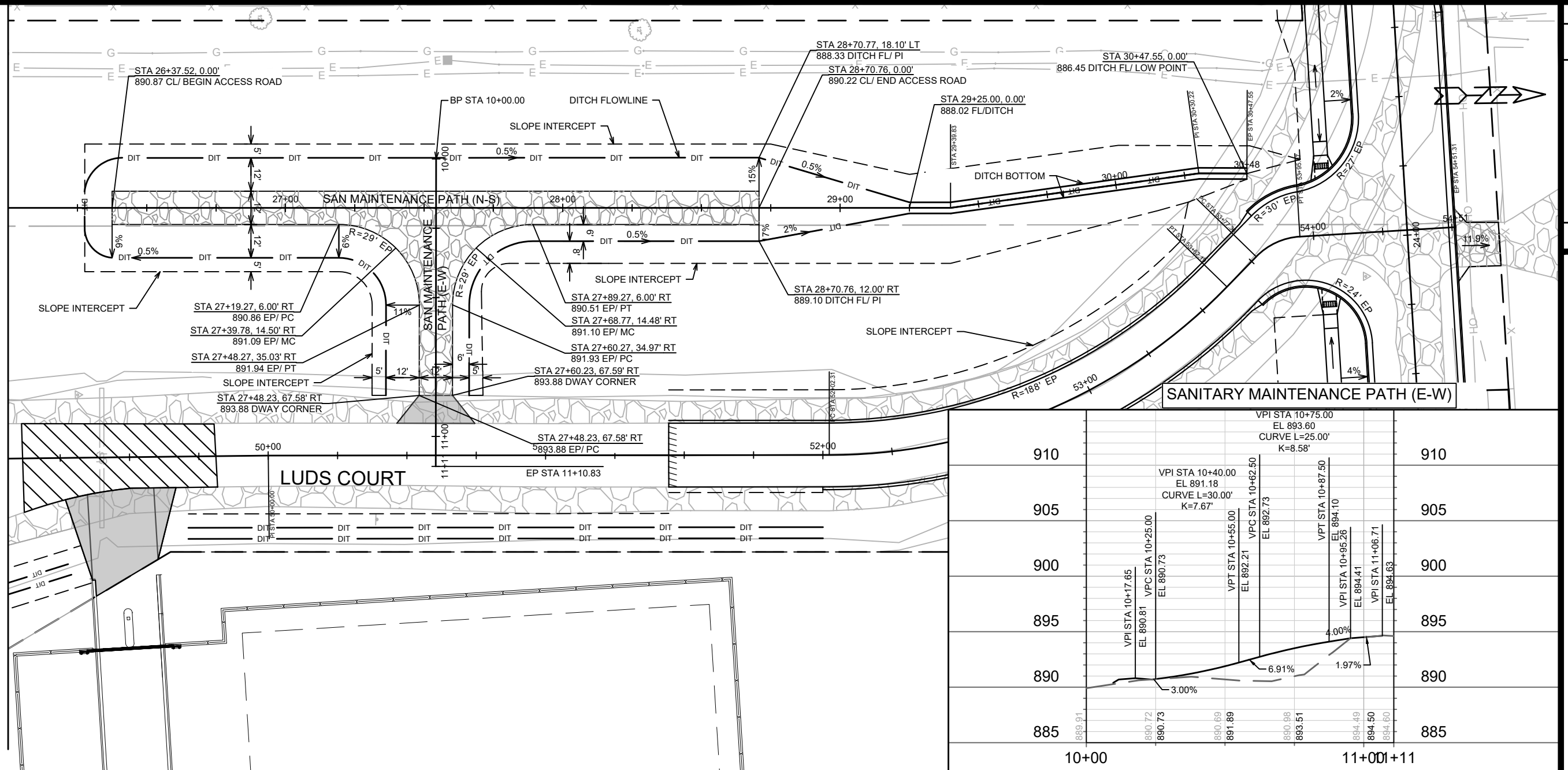
- = GRAVEL ACCESS ROAD.
- = DRAINAGE FLOW PATH.
- = 2" MILL & OVERLAY (TYPE 4 MT 58-28 S). LIMITS SHOWN ARE APPROXIMATE AND CAN BE MODIFIED BY THE CITY CONSTRUCTION ENGINEER.
- = PAVEMENT SAWCUT



14950 MADISON, WI	CONTRACT NO: 9481
STREET PLAN & PROFILE - LUDS COURT LUDS LANE AND FEMRITE DRIVE CSM	14950 P-5

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 P-5

MATCH LINE 26+00.00




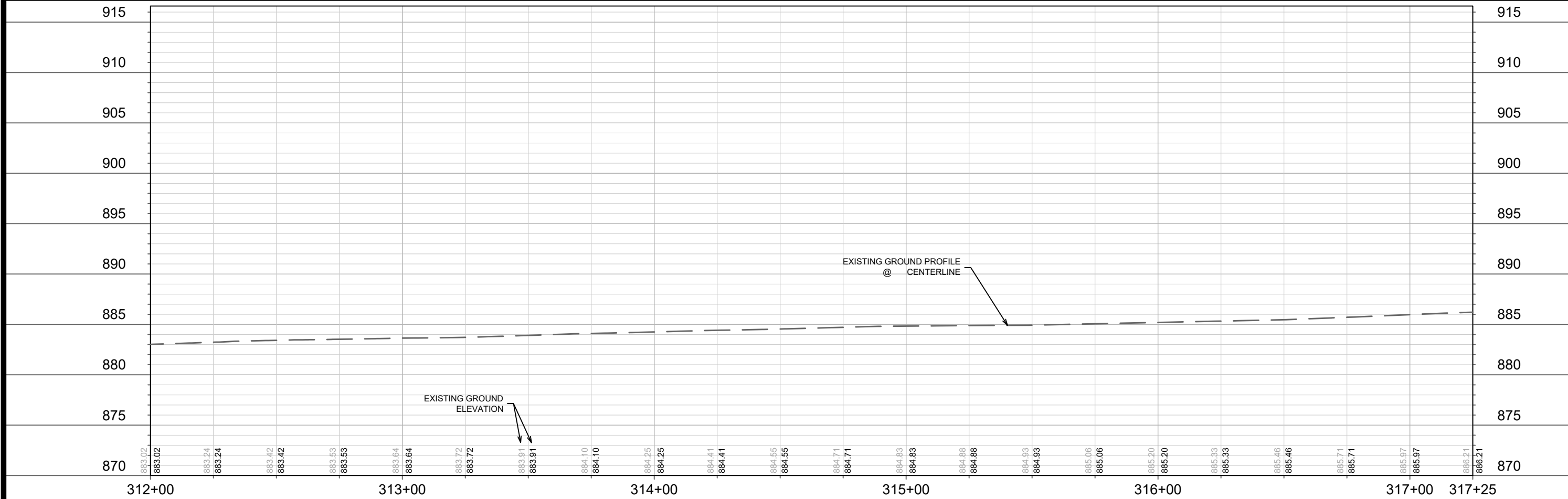
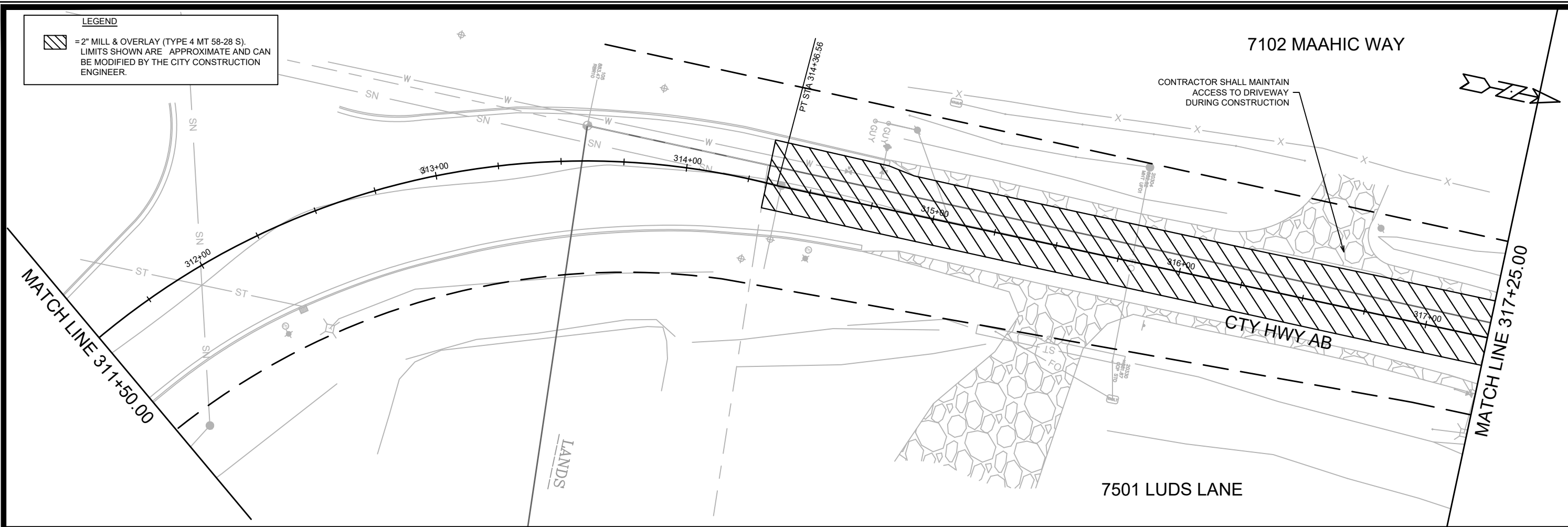
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REVISION	
MARK	
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14950	

14950
MADISON, WI
9481
CONTRACT NO:

STREET PLAN & PROFILE - SANITARY MAINTENANCE PATH
LUDS LANE AND FEMRITE DRIVE CSM
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14950
P-6

LEGEND
 = 2" MILL & OVERLAY (TYPE 4 MT 58-28 S).
 LIMITS SHOWN ARE APPROXIMATE AND CAN BE MODIFIED BY THE CITY CONSTRUCTION ENGINEER.



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 P-7

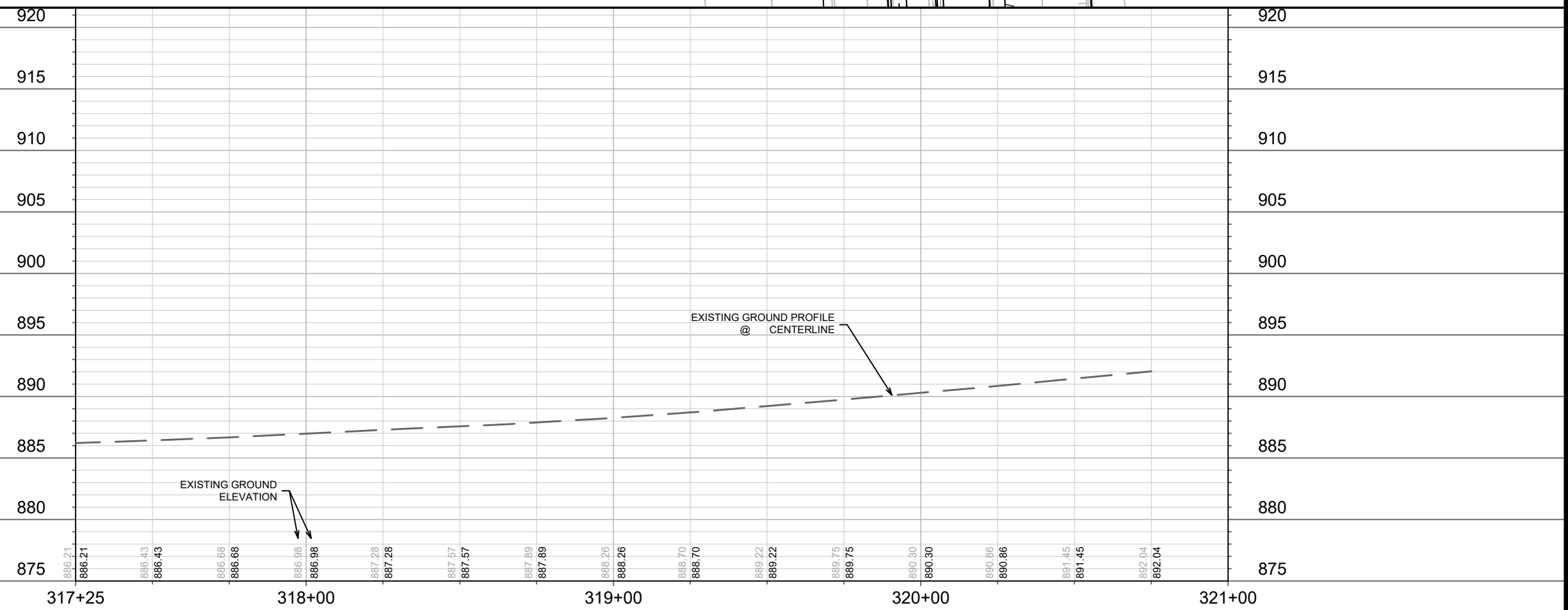
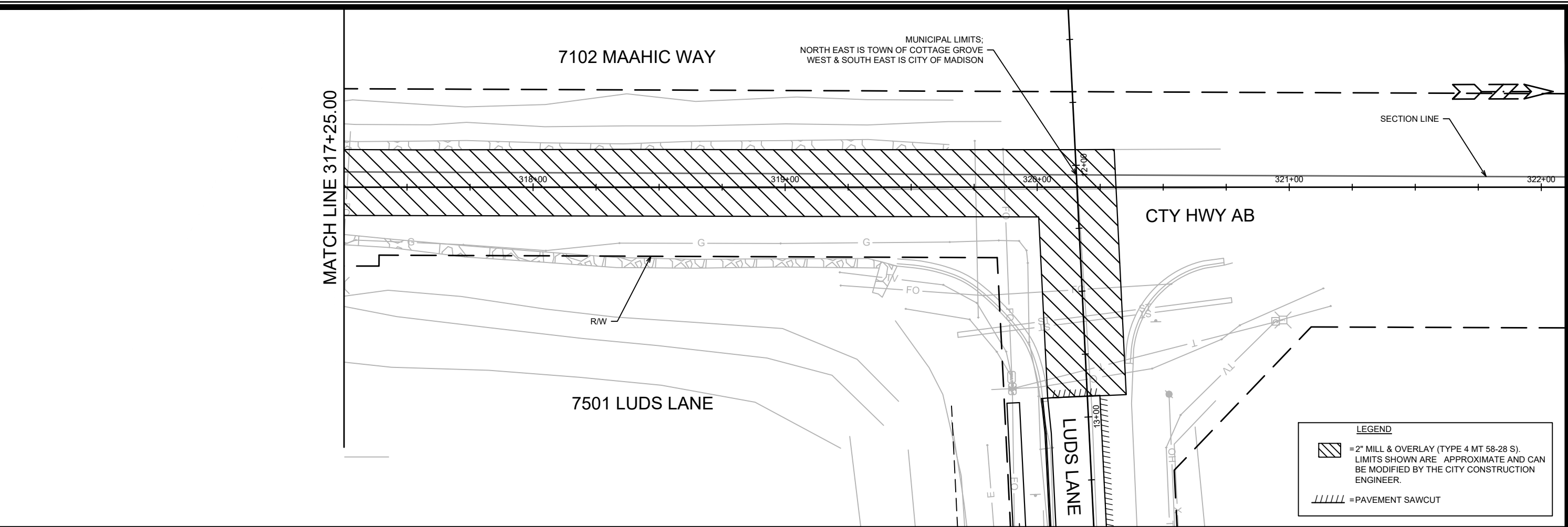
14950
 MADISON, WI
 CONTRACT NO: 9481

STREET PLAN & PROFILE - COUNTY HIGHWAY AB
 LUDS LANE AND FEMRITE DRIVE CSM

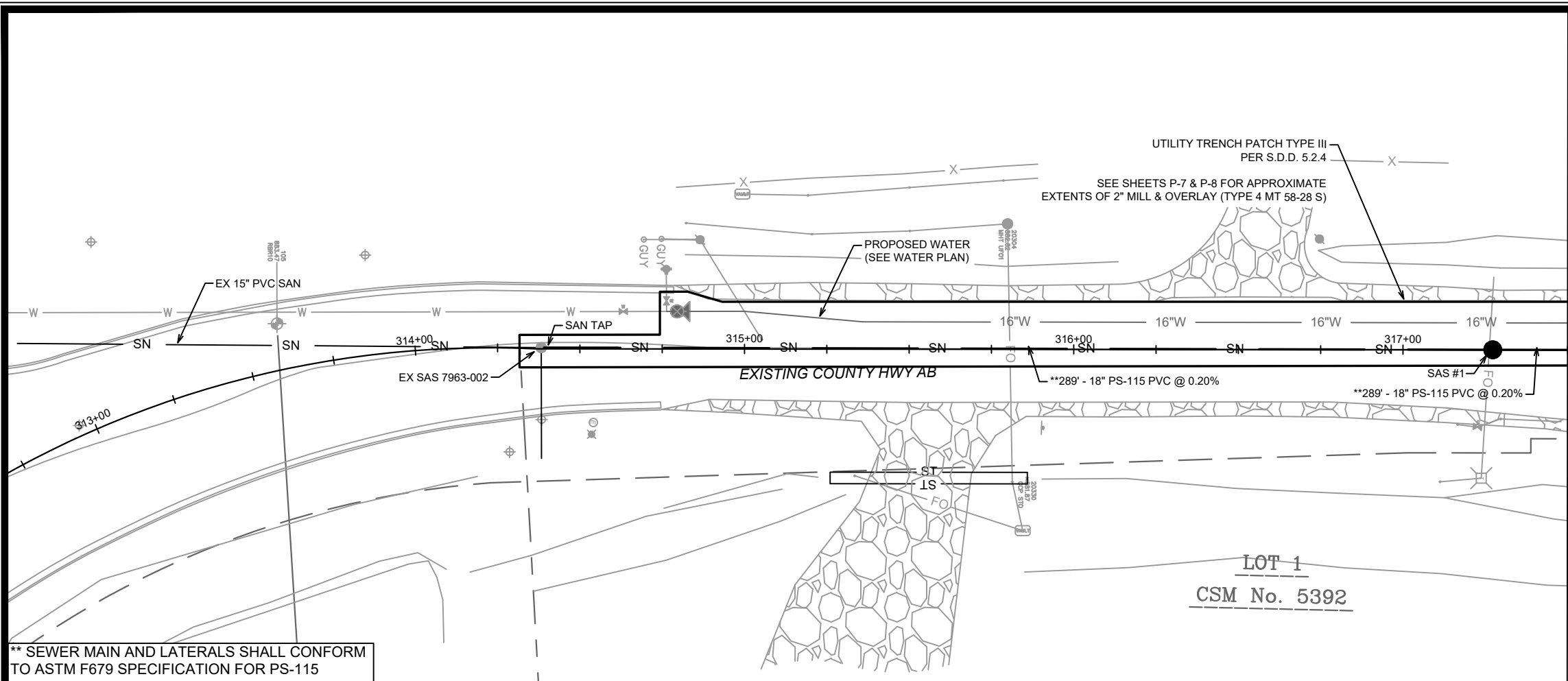
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14950
 P-7



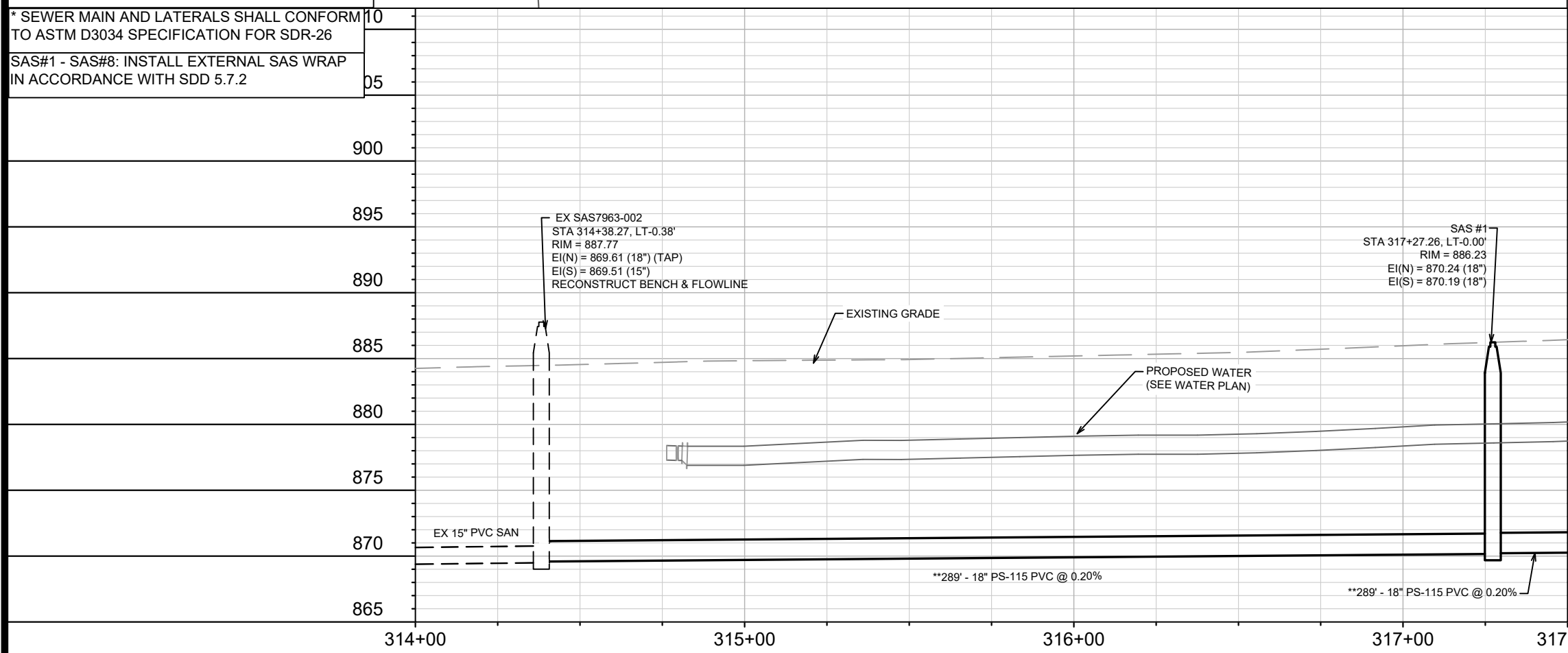
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<p>14950</p> <p>P-8</p>			



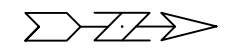
** SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM F679 SPECIFICATION FOR PS-115

* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2



MATCH LINE 317+50.00



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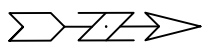
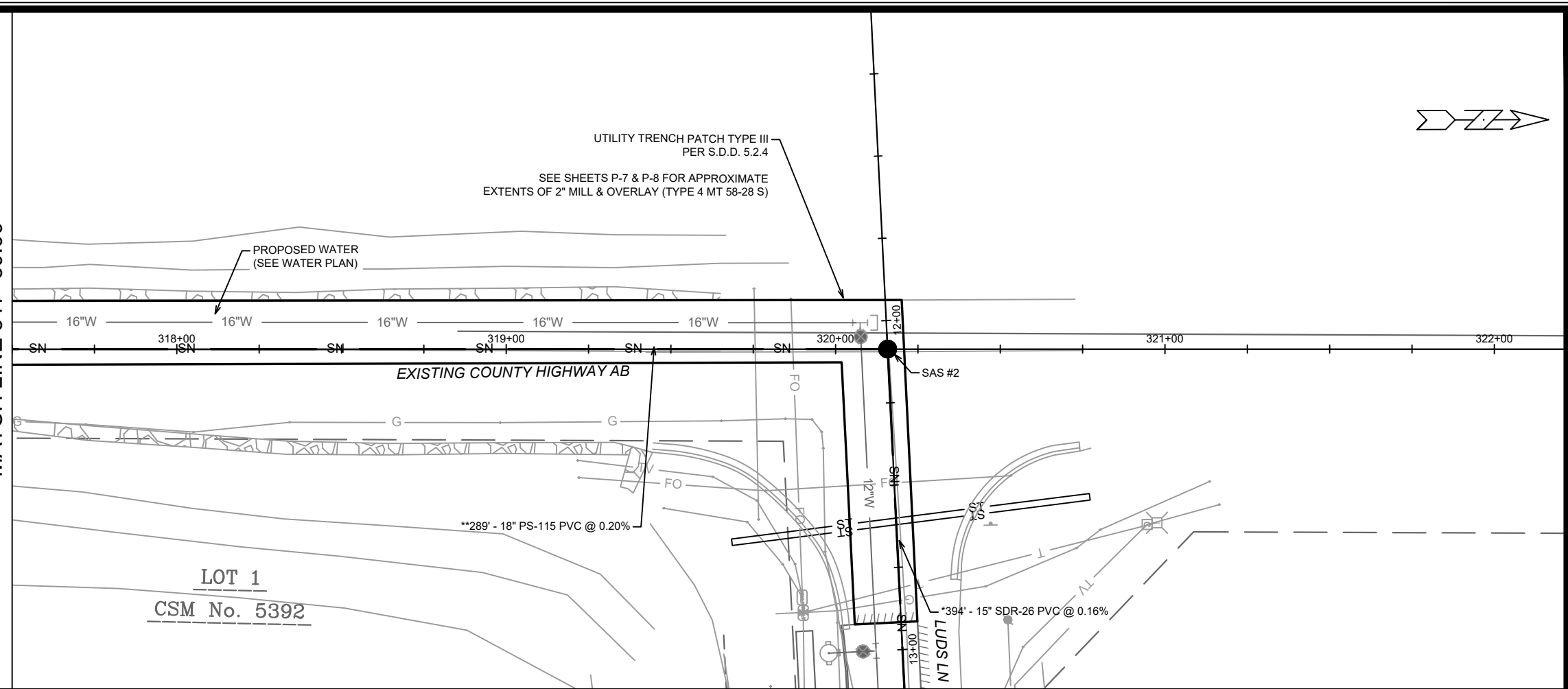
14950
MADISON, WI
9481
CONTRACT NO:

SEWER PLAN & PROFILE - EXISTING COUNTY HWY AB
LUDS LN & FEMRITE DR CSM



14950
U-1

MATCH LINE 317+50.00



** SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM F679 SPECIFICATION FOR PS-115

* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

NOTE: THE CENTERLINE OF LUDS LN BETWEEN APPROXIMATELY STA 12+50 - 22+75 IS THE BOUNDARY BETWEEN THE TOWN OF COTTAGE GROVE AND THE CITY OF MADISON.

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2

910

905

900

895

890

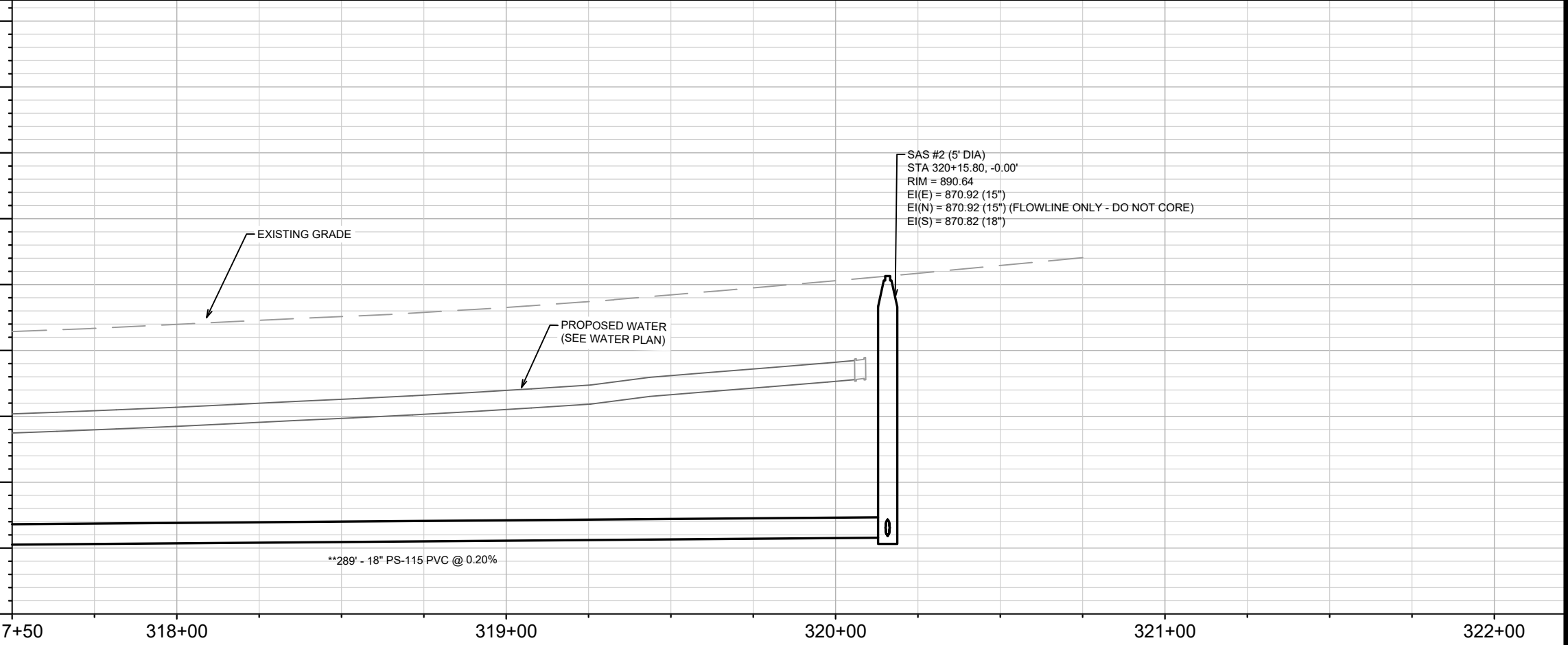
885

880

875

870

865



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14950

MADISON, WI

9481

CONTRACT NO:

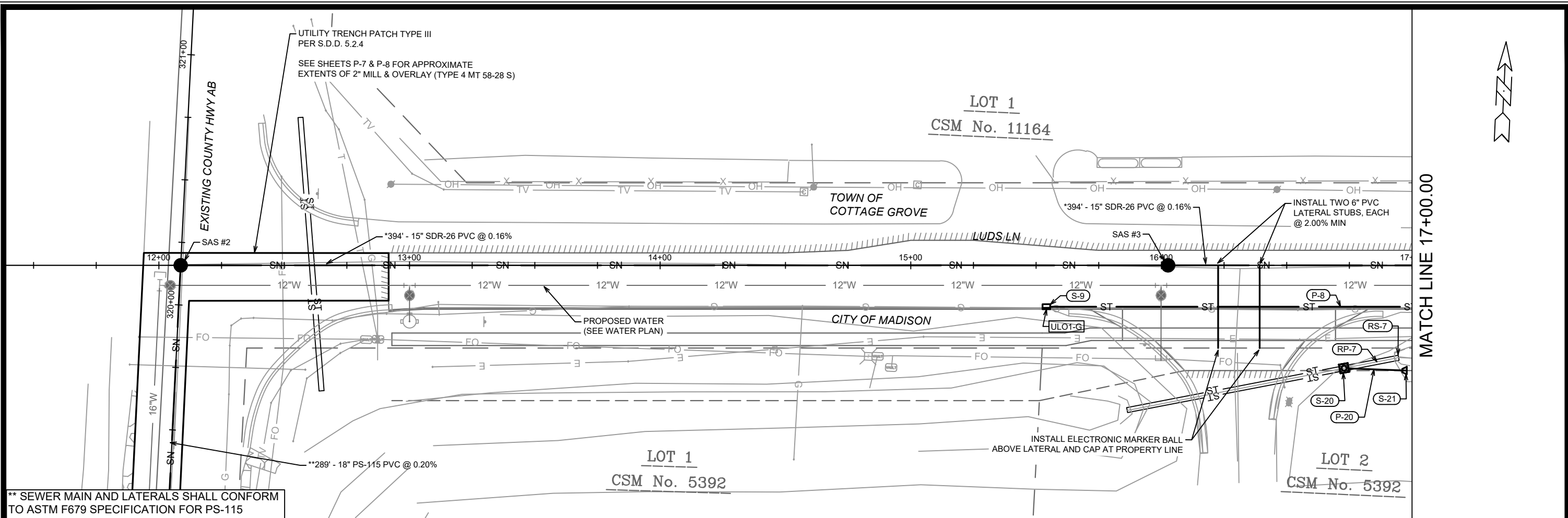
SEWER PLAN & PROFILE - EXISTING COUNTY HWY AB

LUDS LN & FEMRITE DR CSM

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U-2

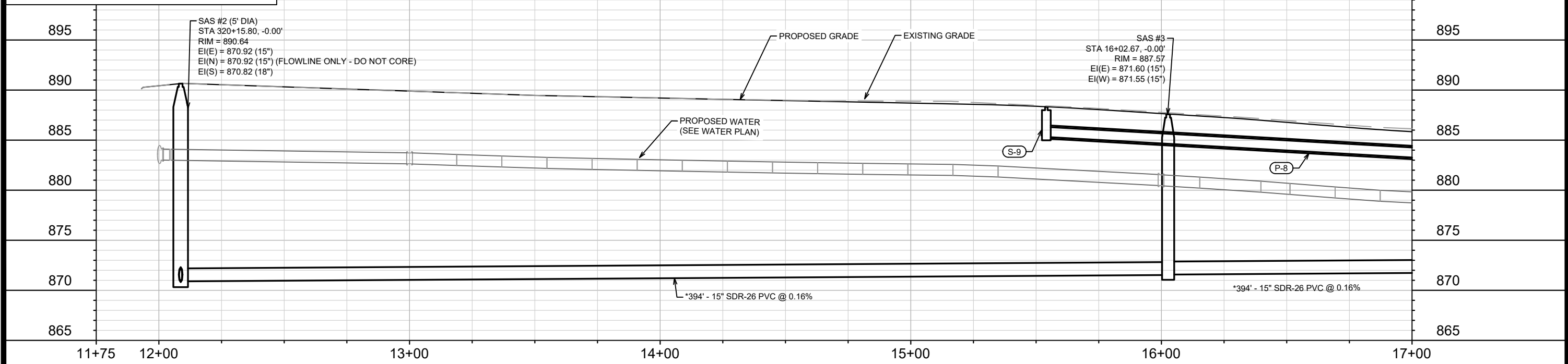


** SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM F679 SPECIFICATION FOR PS-115

* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

NOTE: THE CENTERLINE OF LUDS LN BETWEEN APPROXIMATELY STA 12+50 - 22+75 IS THE BOUNDARY BETWEEN THE TOWN OF COTTAGE GROVE AND THE CITY OF MADISON.

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2




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14950	U-3

14950	MADISON, WI	9481
CONTRACT NO:		

SEWER PLAN & PROFILE - LUDS LN
LUDS LN & FEMRITE DR CSM

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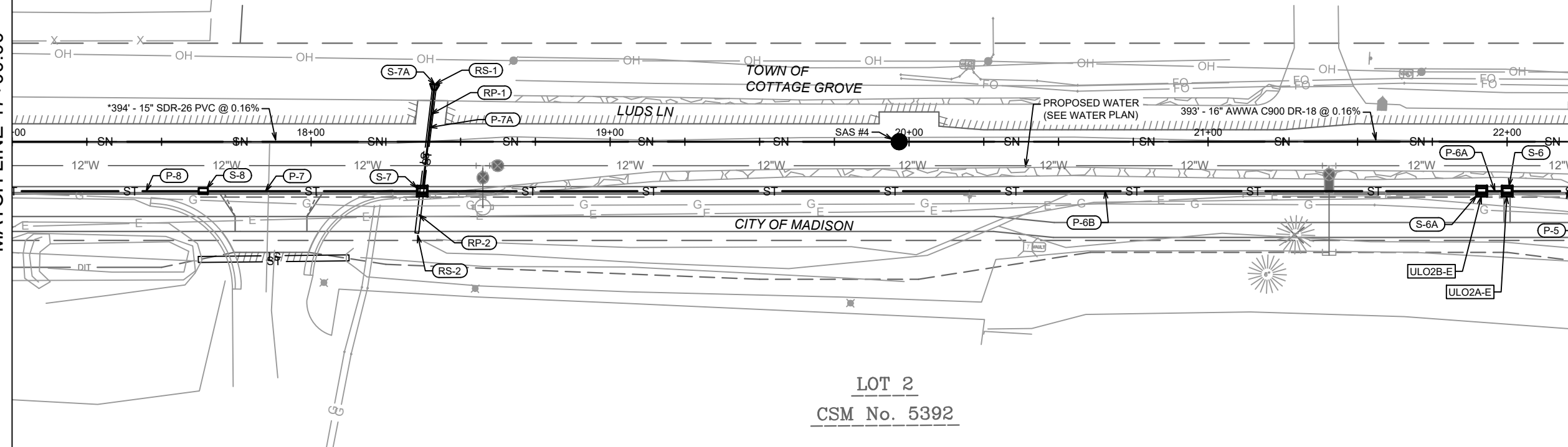
14950
U-3

MATCH LINE 17+00.00

MATCH LINE 22+25.00

LOT 2
CSM No. 11164

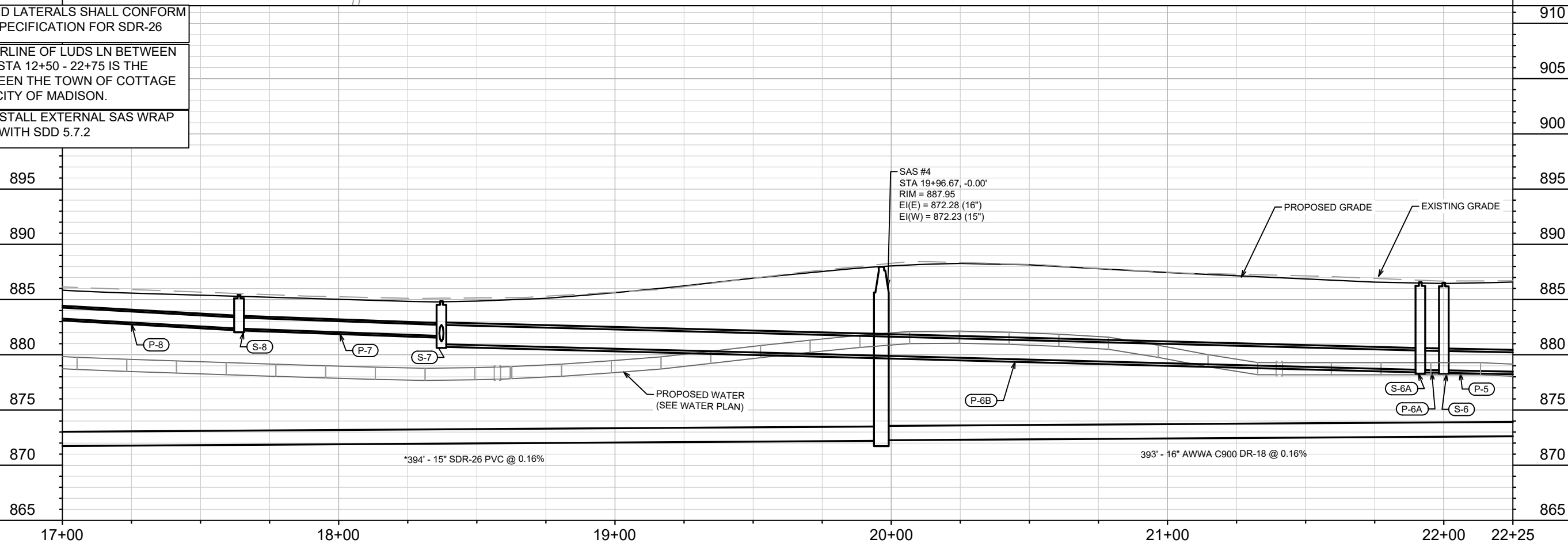
LOT 2
CSM No. 5392



* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

NOTE: THE CENTERLINE OF LUDS LN BETWEEN APPROXIMATELY STA 12+50 - 22+75 IS THE BOUNDARY BETWEEN THE TOWN OF COTTAGE GROVE AND THE CITY OF MADISON.

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2



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14950	10/21/2024	10:47 AM	U-4

14950
MADISON, WI
CONTRACT NO: 9481

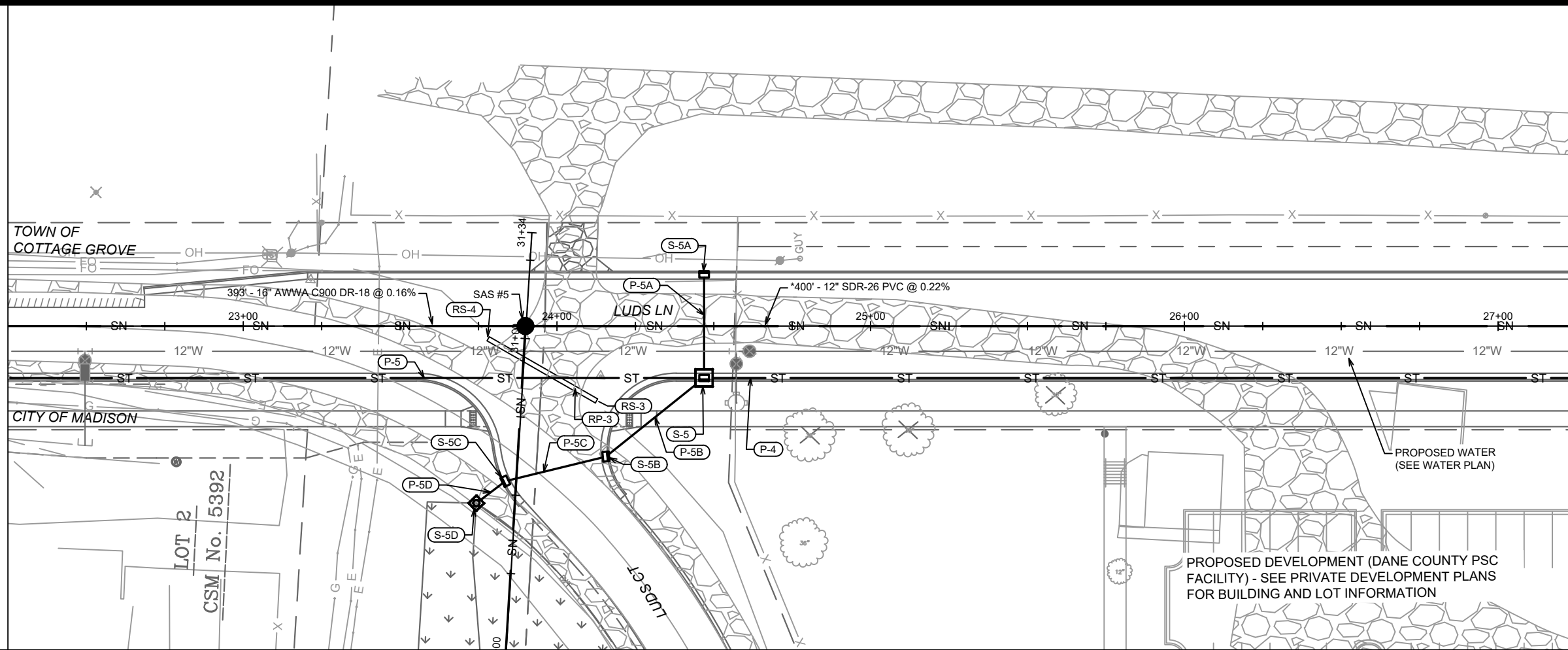
SEWER PLAN & PROFILE - LUDS LN
LUDS LN & FEMRITE DR CSM
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14950
U-4

MATCH LINE 22+25.00

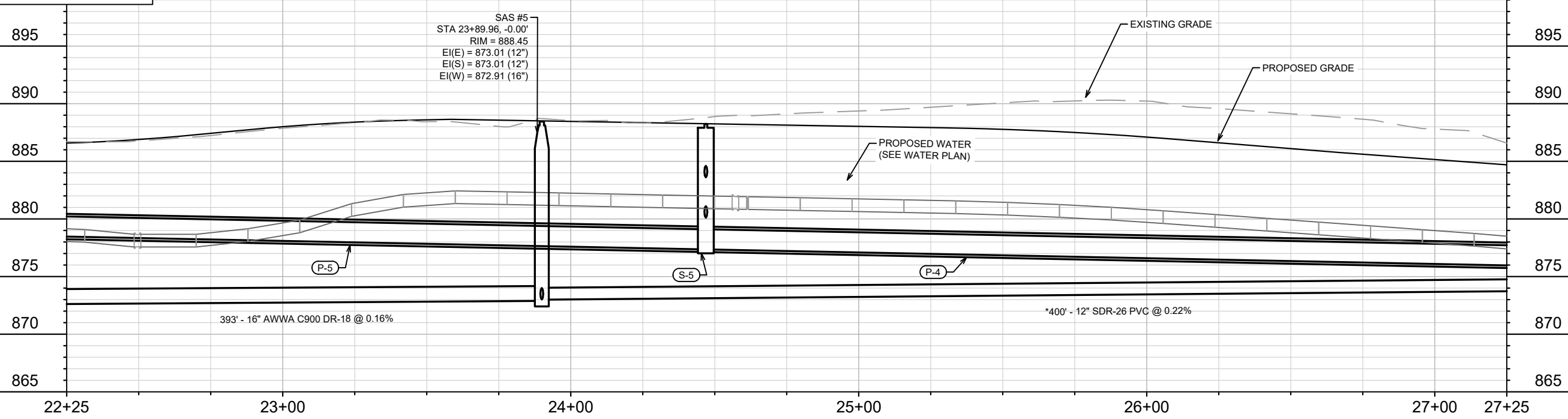
MATCH LINE 27+25.00



* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

NOTE: THE CENTERLINE OF LUDS LN BETWEEN APPROXIMATELY STA 12+50 - 22+75 IS THE BOUNDARY BETWEEN THE TOWN OF COTTAGE GROVE AND THE CITY OF MADISON.

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2



SAS #5
 STA 23+89.96, -0.00'
 RIM = 888.45
 EI(E) = 873.01 (12")
 EI(S) = 873.01 (12")
 EI(W) = 872.91 (16")

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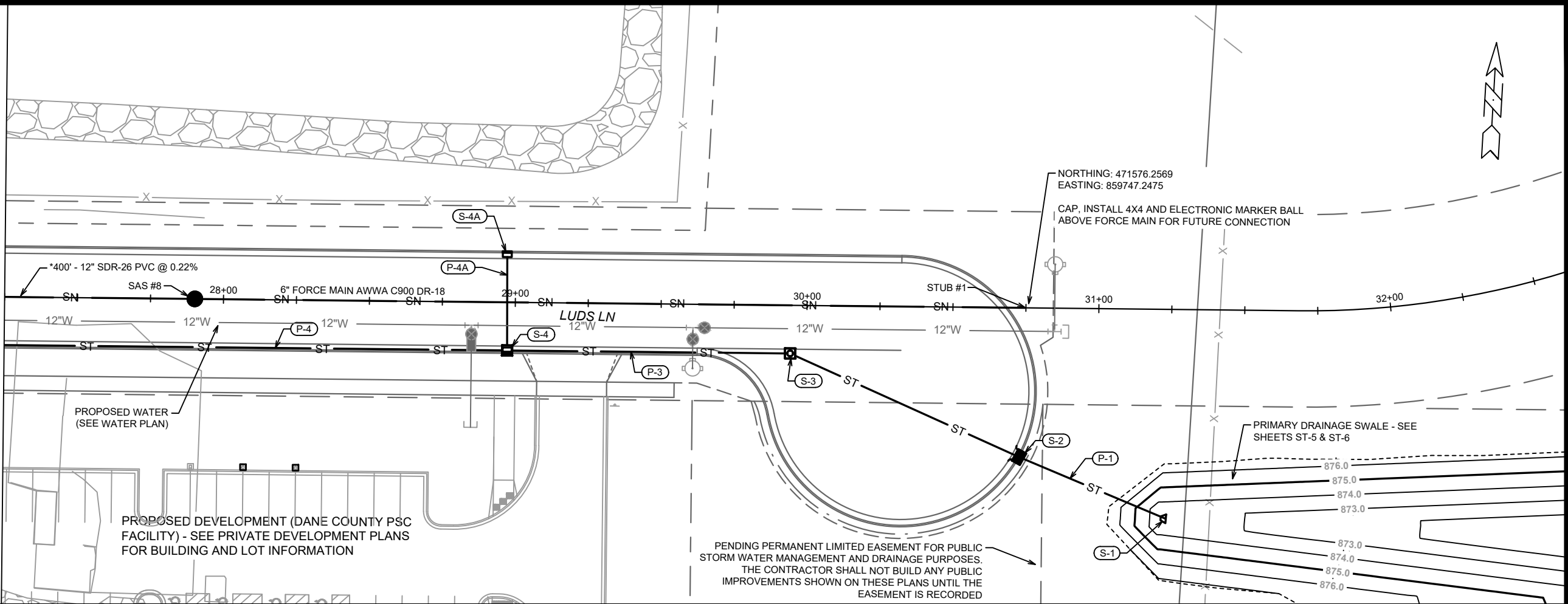
14950
 MADISON, WI
 CONTRACT NO: 9481

SEWER PLAN & PROFILE - LUDS LN
 LUDS LN & FEMRITE DR CSM
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14950
 U-5

MATCH LINE 27+25.00



* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2



27+25 28+00 29+00 30+00 31+00 32+00 32+25

NORTHING: 471576.2569
EASTING: 859747.2475
CAP, INSTALL 4X4 AND ELECTRONIC MARKER BALL ABOVE FORCE MAIN FOR FUTURE CONNECTION

PRIMARY DRAINAGE SWALE - SEE SHEETS ST-5 & ST-6

PENDING PERMANENT LIMITED EASEMENT FOR PUBLIC STORM WATER MANAGEMENT AND DRAINAGE PURPOSES. THE CONTRACTOR SHALL NOT BUILD ANY PUBLIC IMPROVEMENTS SHOWN ON THESE PLANS UNTIL THE EASEMENT IS RECORDED

STUB #1
STA 30+75, LT-0.00' EI =869.00
CAP, INSTALL 4X4 AND ELECTRONIC MARKER BALL ABOVE FORCE MAIN FOR FUTURE CONNECTION

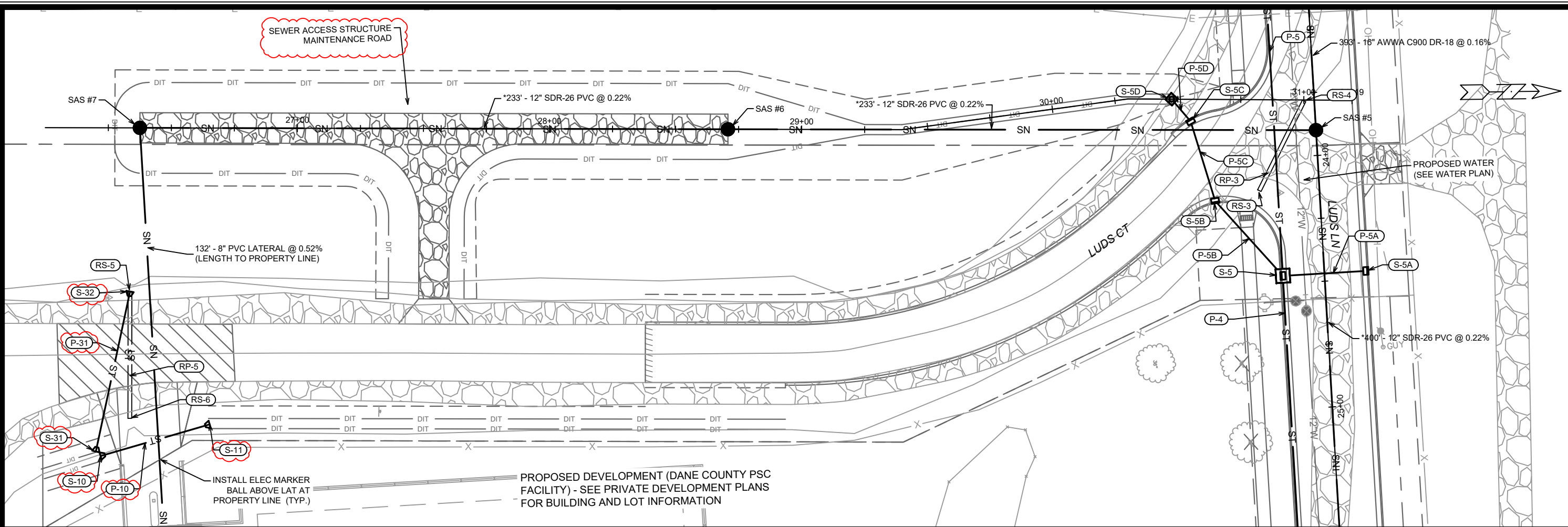
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14950
MADISON, WI
CONTRACT NO: 9481

SEWER PLAN & PROFILE - LUDS LN
LUDS LN & FEMRITE DR CSM
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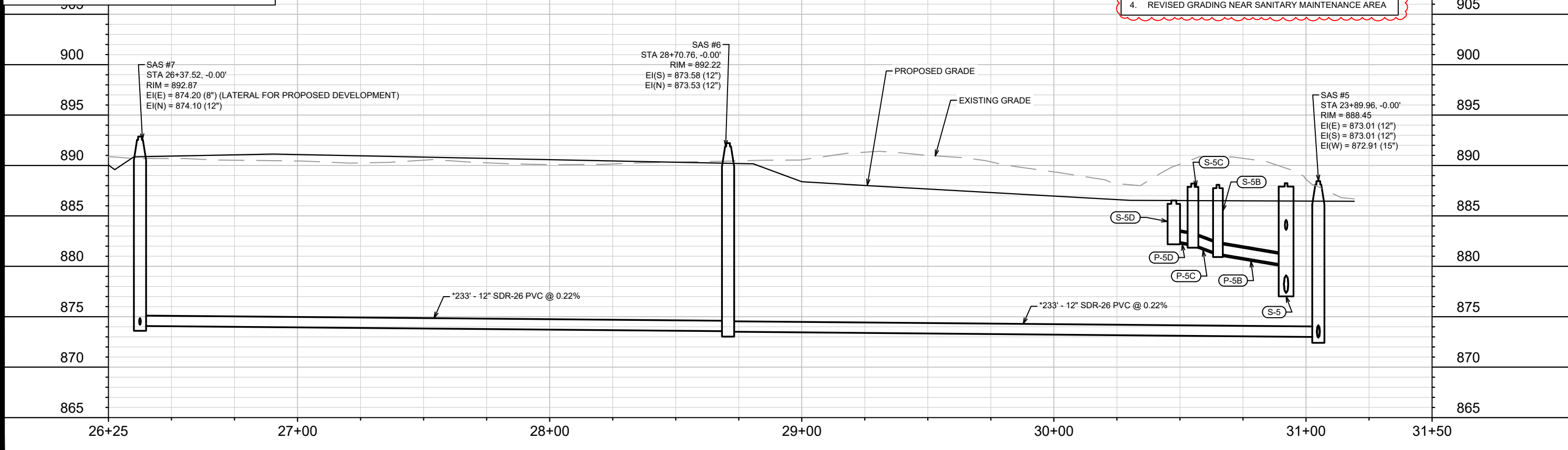
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U-6



* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

SAS#1 - SAS#8: INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2

REVISION #1: 12/2/2024:
 1. S-31 & S-32 ADDITION
 2. P-10 CHANGED TO HERCPC
 3. SANITARY MAINTENANCE PATH ALIGNMENT MODIFIED
 4. REVISED GRADING NEAR SANITARY MAINTENANCE AREA



14950	14950	12/2/24	EAC	BY
S-31 & S-32 ADDITION	REVISION	DATE		
MARK	DESIGNED BY: IO	DATE: 12/2/2024 2:21 PM	Scale: 1" = 40'	U-7
14950	14950	9481	CONTRACT NO:	
SEWER PLAN & PROFILE - SANITARY MAINTENANCE PATH		MADISON, WI		
LUDDS LN & FEMRITE DR CSM		CONTRACT NO: 9481		
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CITY OF MADISON WISCONSIN		U-7		

SANITARY SEWER SCHEDULE

LUDS LN AND FEMRITE DR CSM

PROJECT NO. 14950

SHEET NO.

U-8

SANITARY SEWER SCHEDULE

CITY OF MADISON

U-8

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
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EXISTING COUNTY HIGHWAY AB

SAS #1	317+27.26	CL	886.23	870.19	16.04	[2]
SAS #2	320+15.80	CL	890.64	870.82	19.82	[2]; [3]; 5' DIA.

LUDS LN

SAS #3	16+02.67	CL	887.57	871.55	16.02	[2]
SAS #4	19+96.67	CL	887.95	872.23	15.72	[2]
SAS #5	23+89.96	CL	888.45	872.91	15.54	[2]

SAS #8	27+90.18	CL	883.06	873.89	9.17	[2]
STUB #1	30+75.00	CL	-	869.00	-	[4]

SANITARY MAINTENANCE PATH

SAS #6	28+70.76	CL	892.22	873.53	18.69	[2]; [5]
SAS #7	26+37.52	CL	892.87	874.10	18.77	[2]; [5]; [6]

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PVC TYPE	NOTES
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EXISTING COUNTY HIGHWAY AB

EX SAS 7963-002	SAS #1	869.61	870.19	289	0.20	18"	PS-115; [1]
SAS #1	SAS #2	870.24	870.82	289	0.20	18"	PS-115

LUDS LN

SAS #2	SAS #3	870.92	871.55	394	0.16	15"	SDR-26
SAS #3	SAS #4	871.60	872.23	394	0.16	15"	SDR-26
SAS #4	SAS #5	872.28	872.91	393	0.16	16"	AWWA C-900 DR-18; [7]
SAS #5	SAS #8	873.01	873.89	400	0.22	12"	SDR-26
SAS #8	STUB #1	873.99	869.00	285	-1.75	6"	AWWA C-900 DR-18 (FORCEMAIN)

SANITARY MAINTENANCE PATH

SAS #5	SAS #6	873.01	873.53	233	0.22	12"	SDR-26
SAS #6	SAS #7	873.58	874.10	233	0.22	12"	SDR-26

SPECIFIC NOTES

- [1] 18" TAP EX SAS7963-002 - EI(N) = 869.61, RECONSTRUCT BENCH & FLOWLINE OF EX SAS 7963-002
- [2] INSTALL EXTERNAL SAS WRAP IN ACCORDANCE WITH SDD 5.7.2
- [3] 5' DIA. SAS (FUTURE INSIDE DROP CONNECTION TO NORTH)
- [4] CAP FORCE MAIN STUB, INSTALL 4X4 AND ELECTRONIC MARKER BALL ABOVE FORCE MAIN FOR FUTURE CONNECTION, EI =869.00
- [5] TOP OF CASTING SET 2' ABOVE EXISTING GRADE AT STRUCTURE LOCATION
- [6] CONNECT 8" PVC LATERAL FROM PROPOSED DEVELOPMENT, EI(E) = 874.20
- [7] SEWER MAIN LESS THAN 50' FROM PRIVATE POTABLE WATER WELL FOR DANE COUNTY FACILITIES (WELL TO BE ABANDONED IN FUTURE). C900 PIPE TO BE INSTALLED.

STORM SEWER SCHEDULE

● REVISION 1 - 12/2/2024 EAC

LUDS LN AND FEMRITE DR CSM

SHEET NO.

PROJECT NO. 14950

U-9

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
LUDS LN							
S-1	31+23.69	RT-71.81	21" AE W/ GATE	-	873.50	-	[1]
S-2	30+73.19	RT-51.17	TERRACE INLET TYPE III	877.44	874.20	3.24	[6]; LP; FP
S-3	29+94.36	RT-16.50	3'X3' SAS	878.78	874.63	4.15	W/R-1550-0054
S-4	28+97.38	RT-16.51	3'X3' SAS	880.62	875.11	5.51	W/R-3067-7004-V
S-4A	28+97.09	LT-16.50	H-INLET	880.63	877.13	3.50	W/R-3067-7004-V
S-5	24+46.91	RT-16.51	5'X5' SAS	888.24	877.36	10.88	W/R-3067-7004-V
S-5A	24+46.91	LT-16.49	H-INLET	888.24	883.77	4.47	W/R-3067-7004-V
S-6	22+00.00	RT-16.51	3'X3' SAS	886.53	878.59	7.94	LP; W/R-3067-7004-VB
S-6A	21+91.50	RT-16.51	3'X3' SAS	886.57	878.63	7.94	W/R-3067-7004-VB
S-7	18+37.20	RT-16.51	3'X3' SAS	884.85	880.95	3.90	[5]; LP; FP; W/R-3067-7004-VB
S-7A	18+41.34	LT-19.19	18" AE W/ GATE	-	881.43	-	[2]; [5]
S-8	17+63.93	RT-16.50	H-INLET	885.44	882.37	3.07	W/R-3067-7004-V
S-9	15+54.09	RT-16.50	H-INLET	888.32	885.32	3.00	W/R-3067-7004-V
S-20	16+72.87	RT-41.08	3'X3' SAS	884.49	880.46	4.03	[7]; FP; W/R-1550-0054
S-21	16+97.91	RT-42.00	24" AE W/ GATE	-	881.87	-	[8]
SANITARY MAINTENANCE PATH							
● S-5B	30+65.05	RT-40.25	H-INLET	888.08	881.25	6.83	LP; W/R-3067-7004-VB
● S-5C	30+55.15	RT-8.76	H-INLET	888.21	882.18	6.03	LP; W/R-3067-7004-VB
● S-5D	30+47.55	CL	3'X3' SAS	886.52	882.52	4.00	[3]; LP; R-2560-E
● S-10	26+22.23	RT-130.30	14"X23" AE W/ GATE	-	888.69	-	[4];
● S-11	26+65.48	RT-117.63	14"X23" AE W/ GATE	-	890.72	-	[4]; LP
● S-31	26+20.35	RT-128.42	18" AE W/ GATE	-	888.69	-	[9]
● S-32	26+33.76	RT-64.98	18" AE W/ GATE	-	889.34	-	[10]

STORM STRUCTURE REMOVALS & ABANDONMENTS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
LUDS LN						
RS-1	UNMARKED END #1	18+41.34	LT-19.19	15" CMP END	-	
RS-2	UNMARKED END #7	18+35.35	RT-30.57	15" CMP END	-	
RS-3	UNMARKED END #2	24+12.62	RT-23.84	18" CPP END	-	
RS-4	UNMARKED END #3	23+78.08	RT-4.02	18" CPP END	-	
RS-7	UNMARKED END #6	16+94.66	RT-36.83	24" CPP END	-	
SANITARY MAINTENANCE PATH						
RS-5	UNMARKED END #4	26+33.76	RT-64.98	18" CPP END	-	
RS-6	UNMARKED END #5	26+33.82	RT-115.29	18" CPP END	-	

SPECIFIC NOTES:

- [1] ENDWALL DISCHARGE INVERT TO MATCH PRIMARY DRAINAGE SWALE - SEE PRIVATE DEVELOPMENT PLANS FOR DRAINAGE SWALE DESIGN
- [2] TIE-IN TO EXISTING DRAINAGE DITCH, EI = 881.43 PER DEVELOPER - SEE DEVELOPMENT STORM WATER MANAGEMENT PLAN
- [3] TOP OF FRAME TO MATCH DRAINAGE DITCH LOW POINT, BEEHIVE GRATE SHOULD SIT ABOVE LOW POINT
- [4] ENDWALL INVERTS TO MATCH DRAINAGE SWALE, S-11 TO MATCH DRAINAGE DITCH LOW POINT
- [5] PORTION OF P-7A, S-7A, AND RP-1 LOCATED IN TOWN OF COTTAGE GROVE RIGHT-OF-WAY - COORDINATE FOR REMOVAL
- [6] TOP OF CASTING ELEVATION SET 0.2 FEET BELOW TOP OF CURB AT STRUCTURE LOCATION, CONSTRUCT IN ACCORDANCE WITH SDD 5.7.12B
- [7] TIE-IN TO EXISTING DRIVEWAY CULVERT PIPE, APPROXIMATE EI = 880.46 AT TIE-IN
- [8] TIE-IN TO RELOCATED DRAINAGE DITCH, EI = 881.87
- [9] ENDWALL INVERT TO MATCH DRAINAGE SWALE LOW POINT TO GREATEST EXTENT POSSIBLE
- [10] MATCH ELEVATION OF EXISTING 18" CPP END (RS-5)

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
LUDS LN										
P-1	S-1	S-2	873.50	874.20	53	51	1.37%	21"	RCP	
P-2	S-2	S-3	874.20	874.63	88	85	0.51%	21"	RCP	
P-3	S-3	S-4	874.63	875.11	97	94	0.51%	21"	RCP	
P-4	S-4	S-5	875.11	877.36	450	446	0.50%	21"	RCP	
P-4A	S-4	S-4A	876.96	877.13	33	31	0.55%	12"	RCP	NCM
P-5	S-5	S-6	877.36	878.59	247	243	0.51%	21"	RCP	
P-5A	S-5	S-5A	883.61	883.77	33	29	0.55%	12"	RCP	NCM
P-6A	S-6	S-6A	878.59	878.63	9	6	0.67%	21"	RCP	
P-6B	S-6A	S-7	878.63	880.95	354	351	0.66%	21"	RCP	
P-7	S-7	S-8	881.70	882.37	73	70	0.96%	12"	RCP	
P-7A	S-7	S-7A	881.20	881.43	36	35	0.66%	18"	RCP	
P-8	S-8	S-9	882.37	885.32	210	207	1.43%	12"	RCP	
P-20	S-20	S-21	880.46	881.87	25	24	5.87%	24"	TYPE II	
SANITARY MAINTENANCE PATH										
P-5B	S-5	S-5B	880.11	881.25	40	36	3.17%	12"	RCP	NCM
P-5C	S-5B	S-5C	881.25	882.18	33	31	3.00%	12"	RCP	
P-5D	S-5C	S-5D	882.18	882.52	12	9	3.78%	12"	RCP	
● P-10	S-10	S-11	888.69	890.72	45	45	4.51%	14"X23"	HERCP	
● P-31	S-31	S-32	888.69	889.34	65	65	1.00%	18"	RCP	

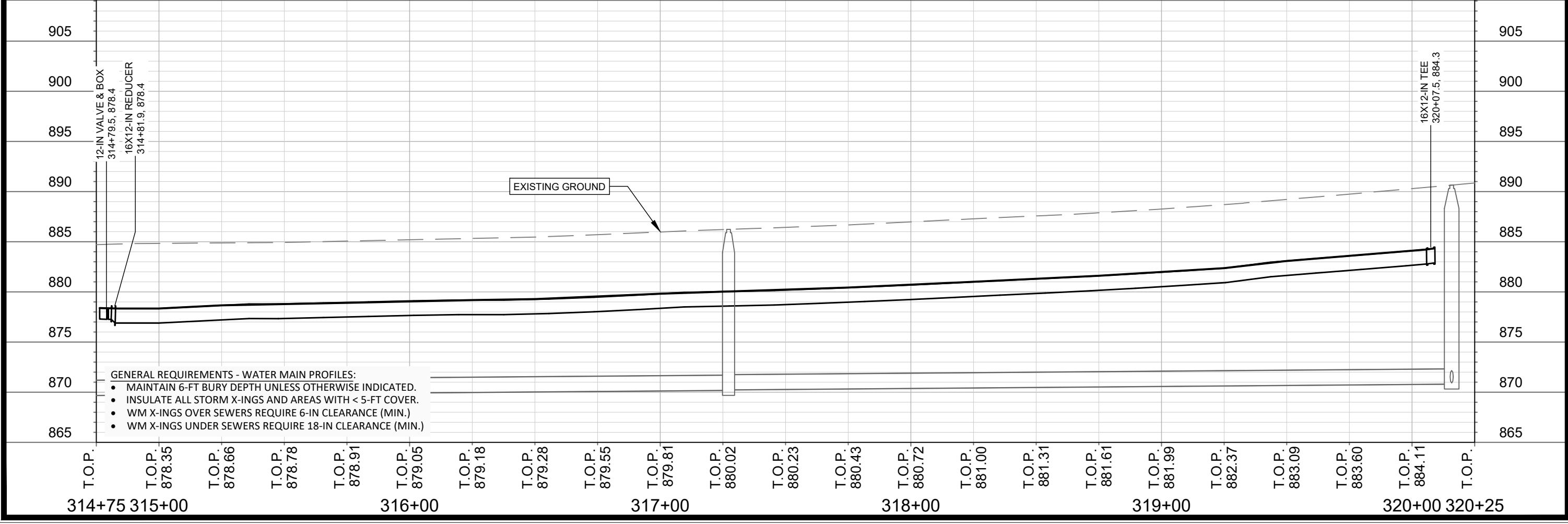
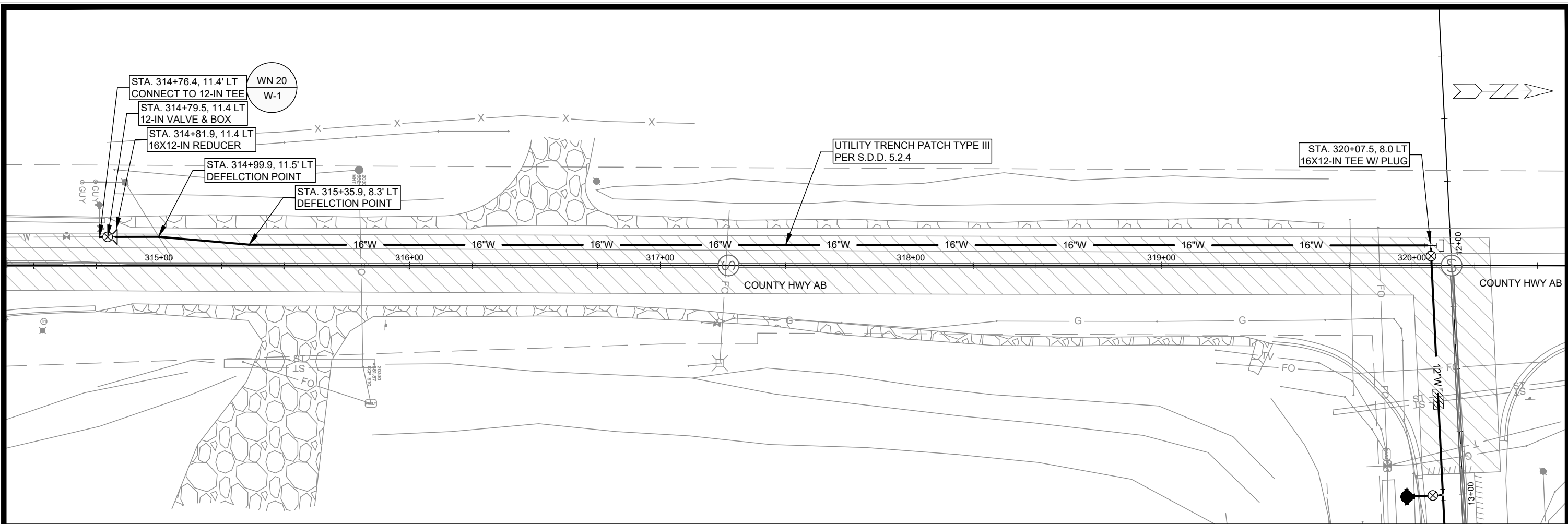
STORM PIPE REMOVALS & ABANDONMENTS

PIPE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	ABN LGTH (FT)	SLURRY (CY)	PIPE SIZE	PIPE TYPE	NOTES
LUDS LN										
RP-1	S-7	S-7A	36	N	-	-	-	15"	CMP	[5]
RP-2	RS-2	S-7	12	Y	-	-	-	15"	CMP	
RP-3	RS-3	RS-4	40	Y	-	-	-	18"	CPP	
RP-7	S-20	RS-7	22	Y	-	-	-	24"	CPP	
SANITARY MAINTENANCE PATH										
RP-5	RS-5	RS-6	50	Y	-	-	-	18"	CPP	

STORM ULO SCHEDULE

ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	NOTES
LUDS LN				
ULO1-G	15+54.09	RT-17.00	GAS	
ULO2A-E	21+99.97	RT-17.78	ELECTRIC	
ULO2B-E	21+91.53	RT-17.83	ELECTRIC	

- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL ECEFALU@CITYOFMADISON.COM ((608) 243-5894).
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

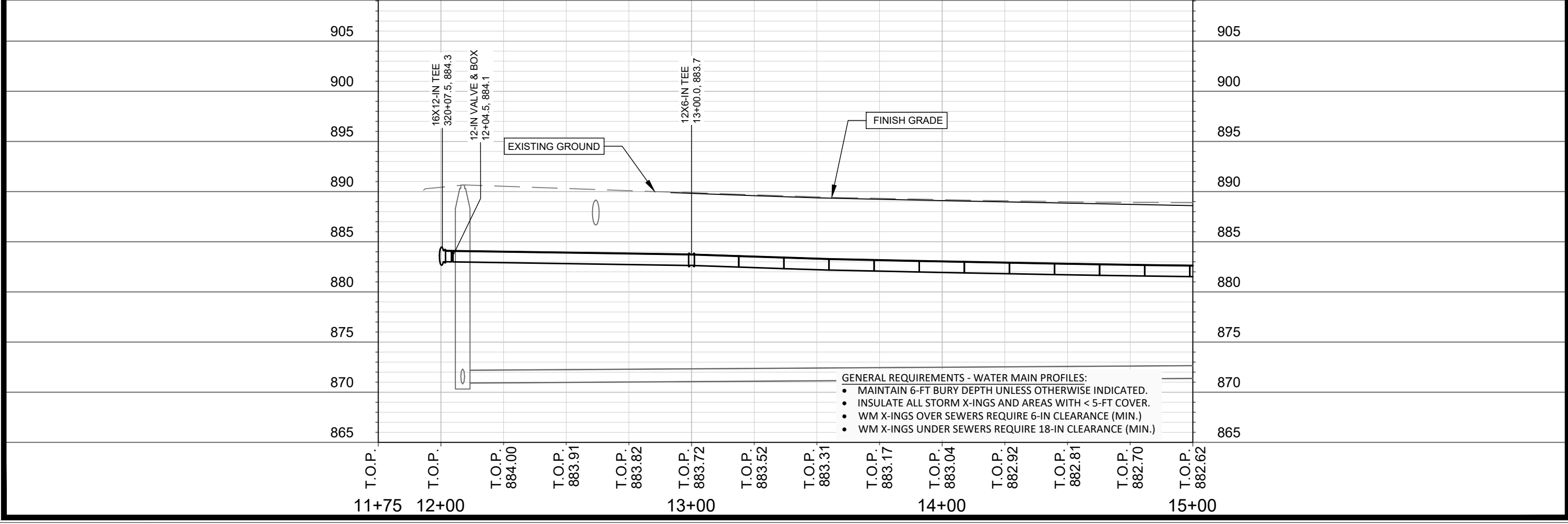
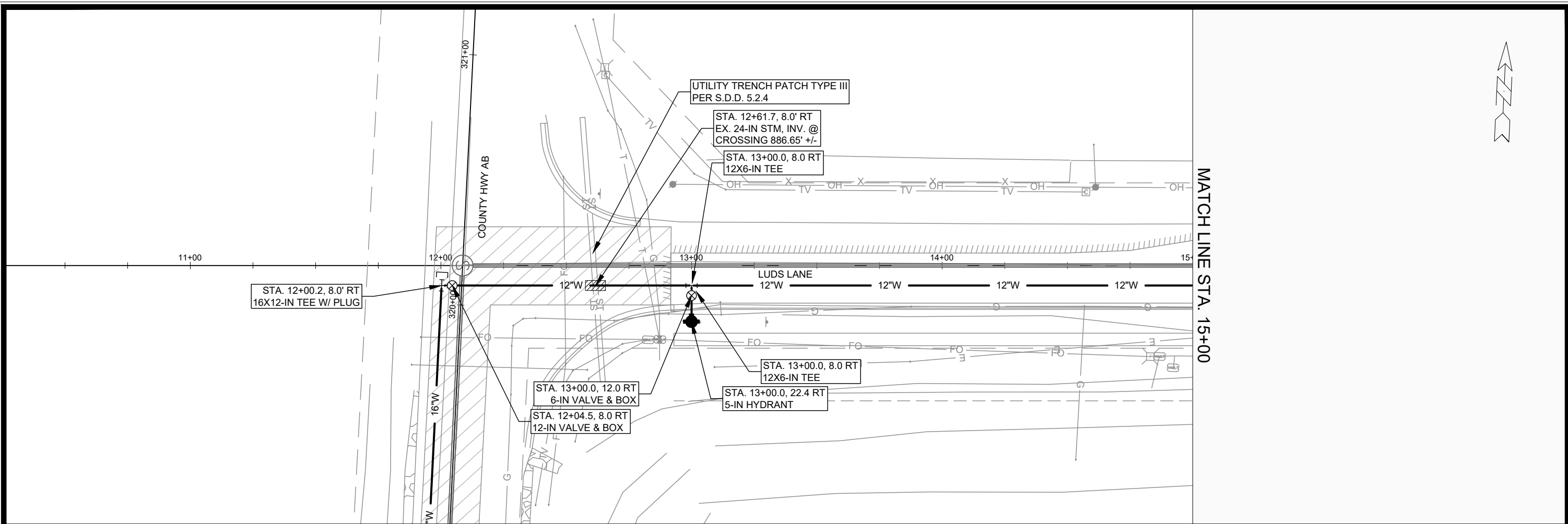
MARK	REVISION	DATE	BY

Designed By: TDP
Date: _____
Scale: 1" = 40'
14950

14950
MADISON, WI
CONTRACT NO: 9481

WATER PLAN & PROFILE - EXISTING COUNTY HWY AB
LUDS LANE AND FEMRITE DRIVE CSM
M:\DESIGN\Projects\14950\CAD\Water\14950WU\Water.dwg

14950
W-1



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

MARK	REVISION	DATE	BY

14950
MADISON, WI
CONTRACT NO: 9481

WATER PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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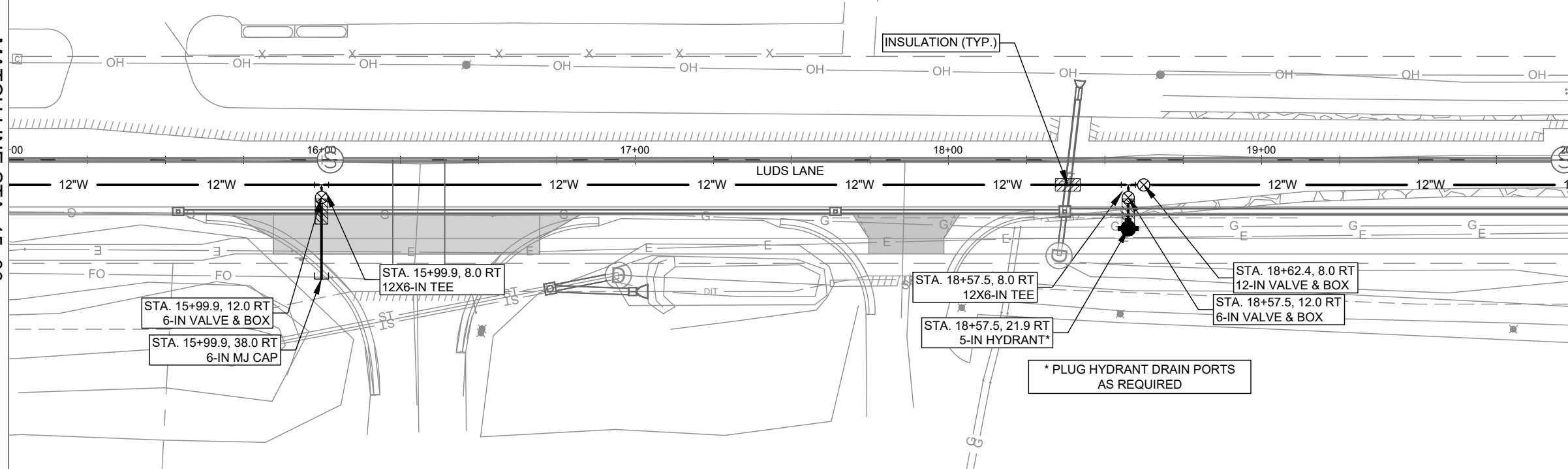


14950
W-2

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Date: 10/14/2024 10:56 AM
Scale: 1" = 40'
W-2

MATCHLINE STA. 15+00

MATCHLINE STA. 20+00



905
900
895
890
885
880
875
870
865

905
900
895
890
885
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875
870
865

T.O.P. 882.62
T.O.P. 882.49
T.O.P. 882.22
T.O.P. 881.88
T.O.P. 881.53
T.O.P. 881.15
T.O.P. 880.70
T.O.P. 880.22
T.O.P. 879.85
T.O.P. 879.58
T.O.P. 879.37
T.O.P. 879.16
T.O.P. 878.98
T.O.P. 878.81
T.O.P. 878.84
T.O.P. 879.08
T.O.P. 879.50
T.O.P. 880.07
T.O.P. 880.76
T.O.P. 881.42
T.O.P. 881.98

15+00 16+00 17+00 18+00 19+00 20+00

EXISTING GROUND

FINISH GRADE

- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)



MARK	REVISION	DATE	BY
14950	10/14/2024	10:56 AM	W-3
Designed By: TDP	Date:		

14950
MADISON, WI
CONTRACT NO.: 9481

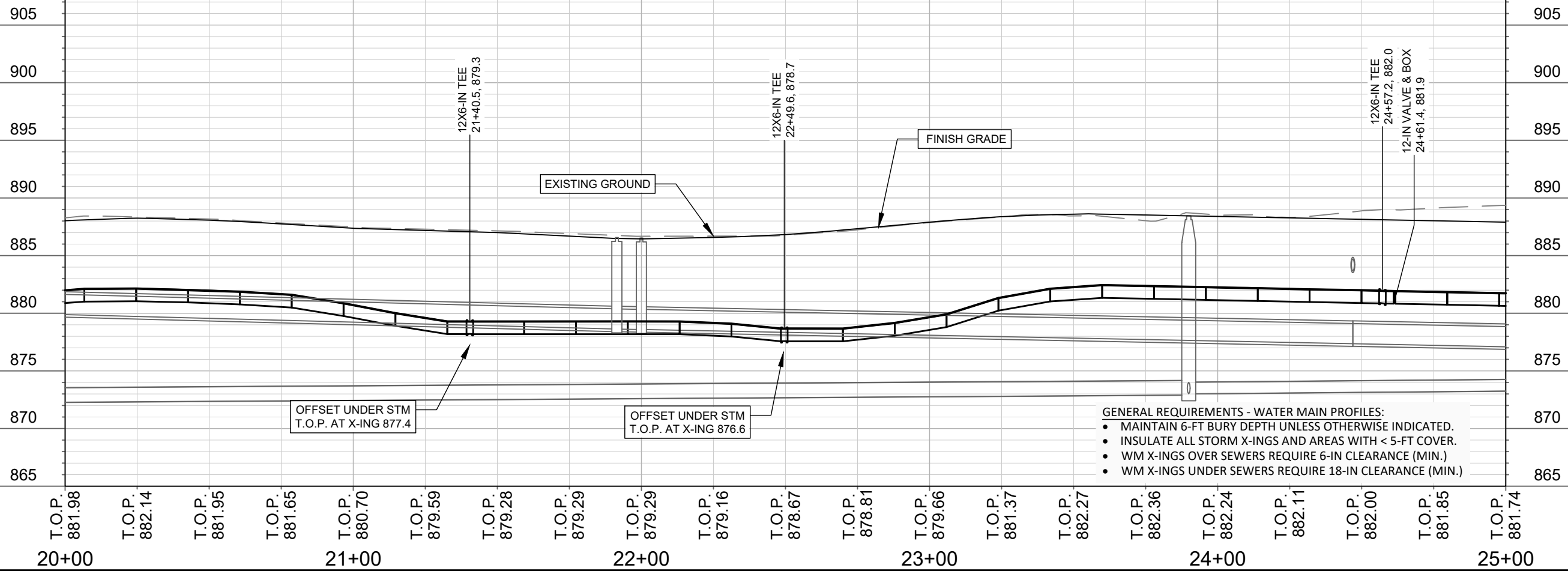
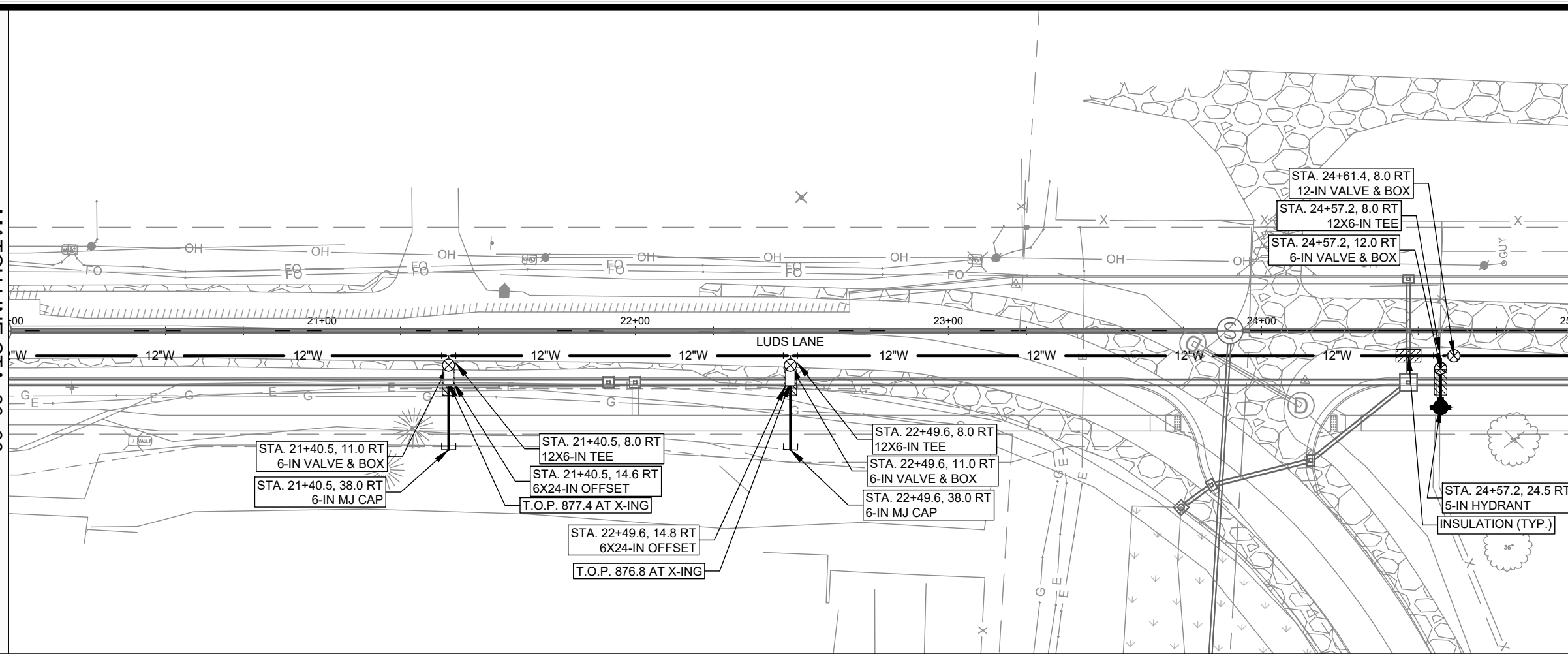
WATER PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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14950
W-3

MATCH LINE STA. 20+00

MATCH LINE STA. 25+00



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

MARK	REVISION	DATE	BY
14950		10/14/2024	TDP
Designed By: TDP			Scale: 1" = 40'
Date: 10/14/2024 10:56 AM			W-4

14950
MADISON, WI
CONTRACT NO: 9481

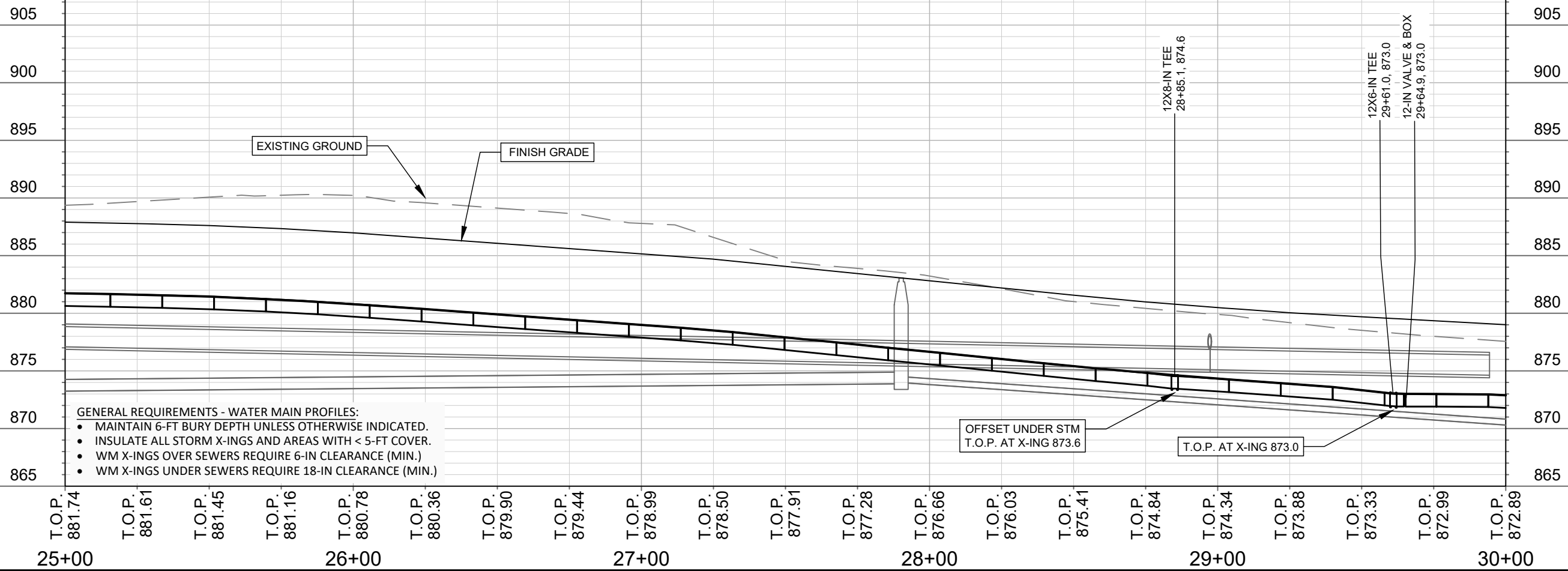
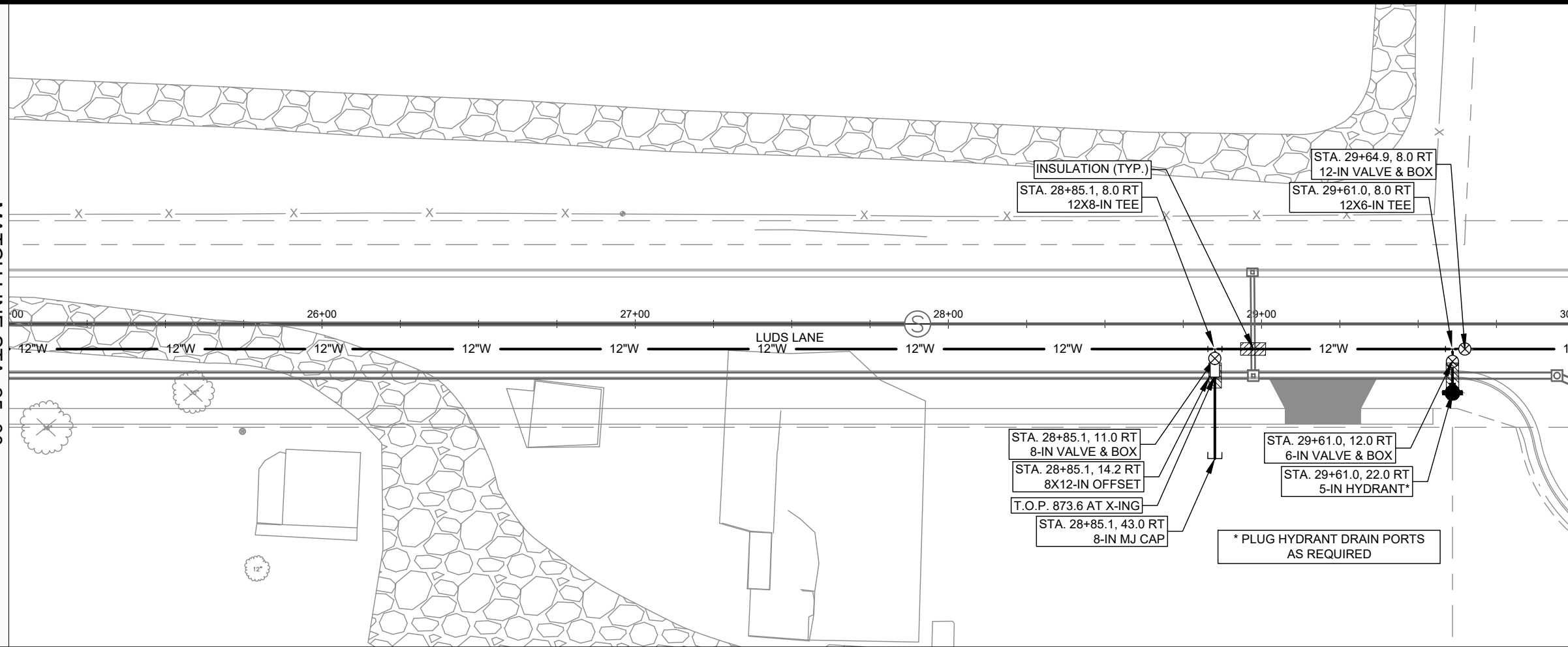
WATER PLAN & PROFILE - LUD'S LANE
LUD'S LANE AND FEMRITE DRIVE CSM
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14950
W-4

MATCH LINE STA. 25+00

MATCH LINE STA. 30+00




MARK	REVISION	DATE	BY

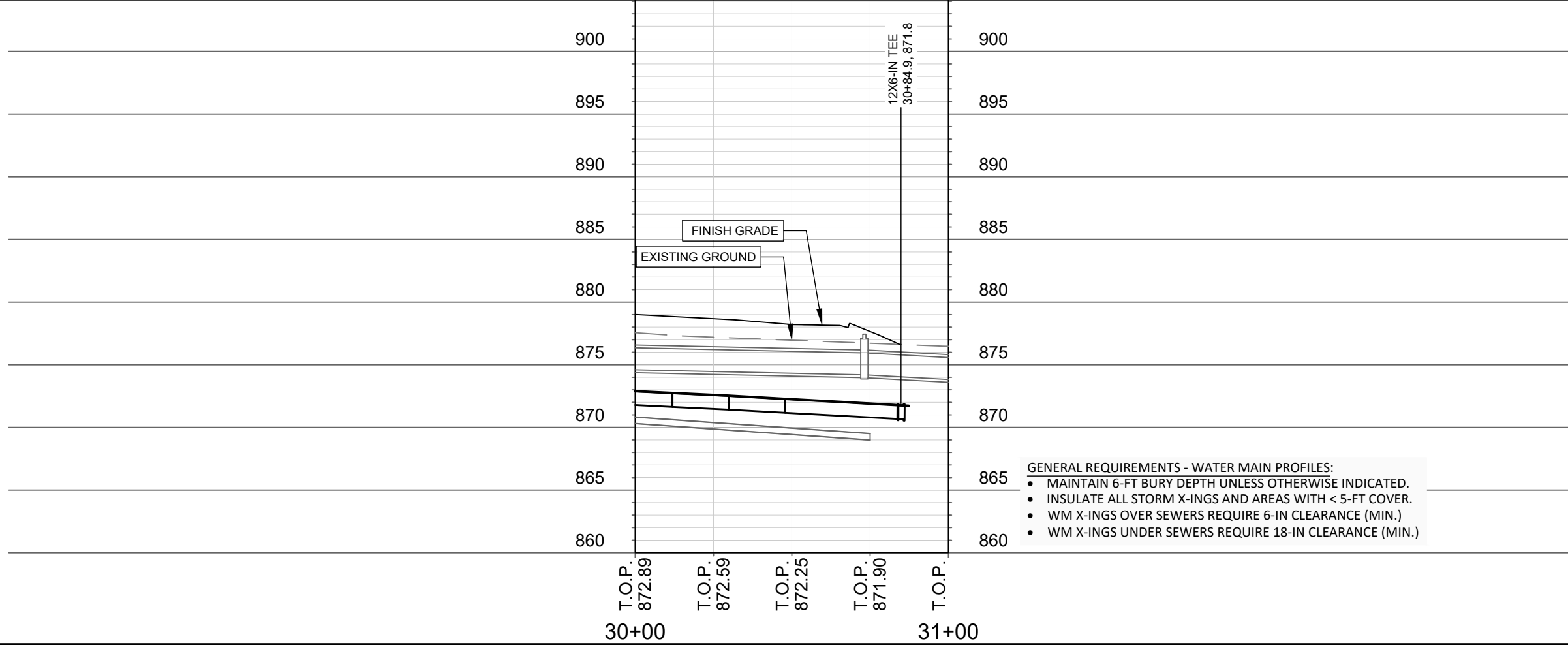
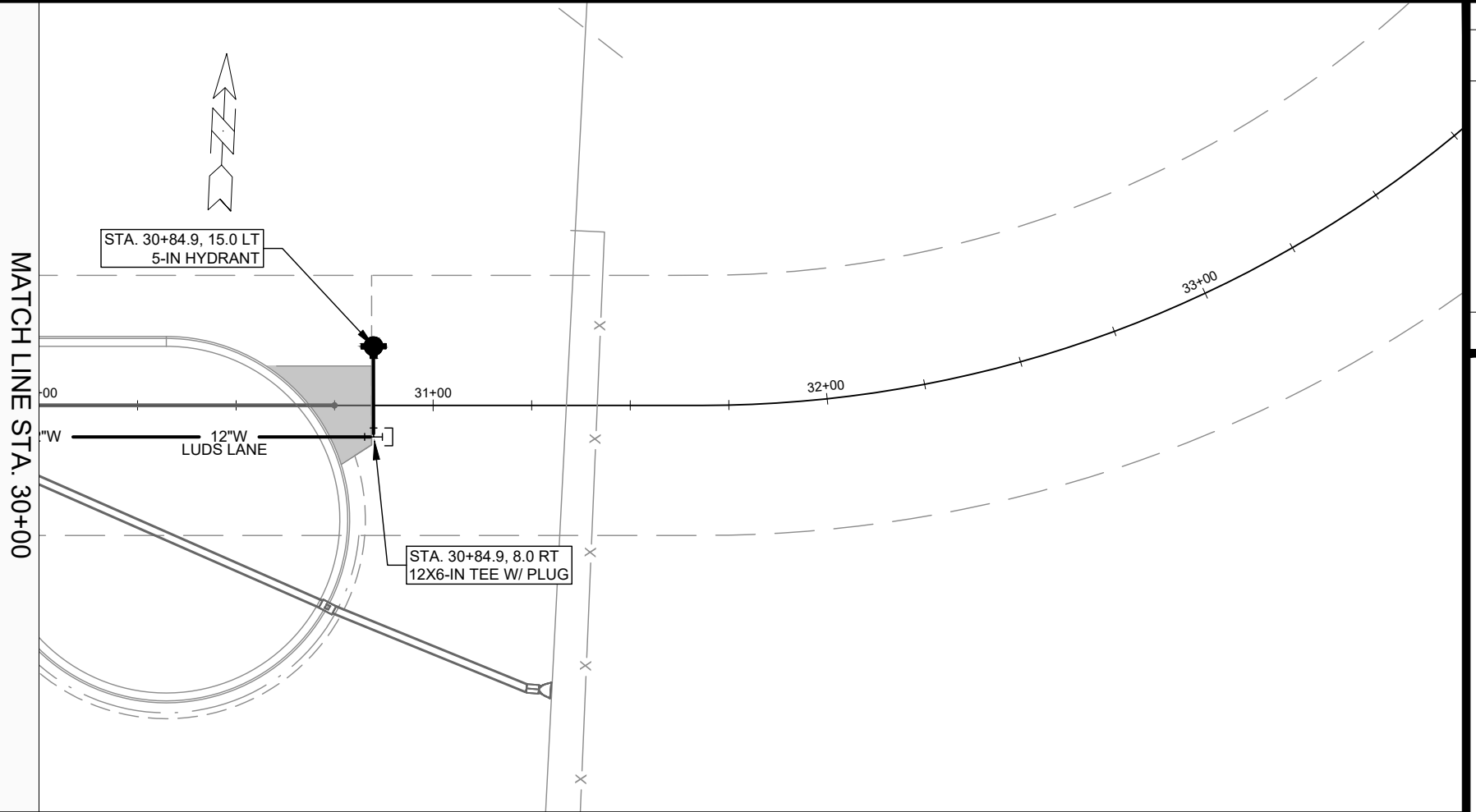
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Date: 10/14/2024 10:56 AM
Scale: 1" = 40'
14950
W-5

14950
MADISON, WI
CONTRACT NO: 9481

WATER PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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14950
W-5



- GENERAL REQUIREMENTS - WATER MAIN PROFILES:**
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
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 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

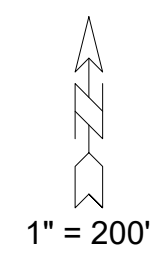
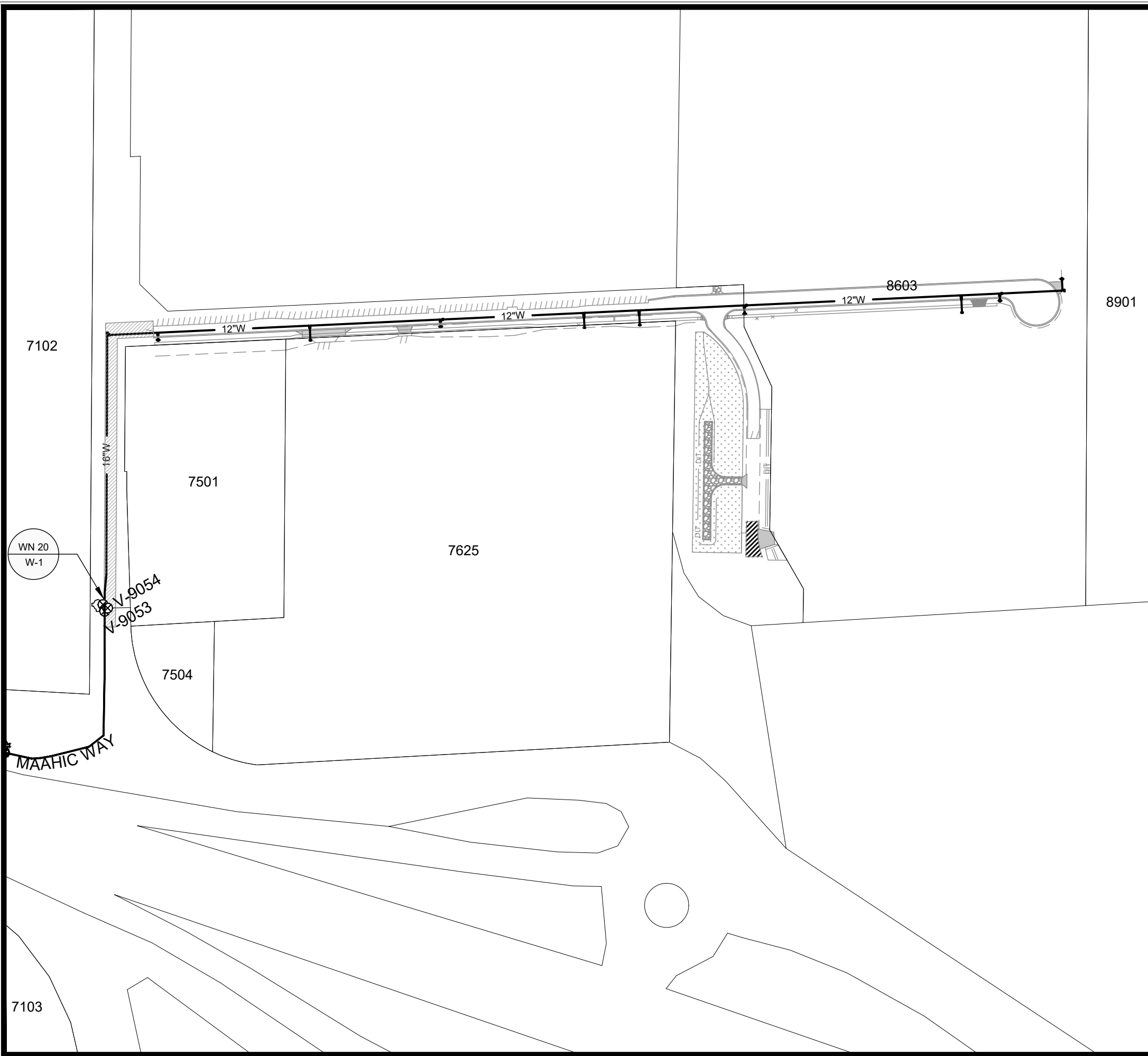
MARK	REVISION	DATE	BY
14950	10/14/2024	10:56 AM	TDP
14950			W-6

14950
MADISON, WI
CONTRACT NO: 9481

WATER PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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14950
W-6




WN20 W-1: CONNECT TO EX. 12-IN TEE
 ISOLATION VALVE: V-9053
 NOTIFICATIONS: NONE REQUIRED

DISCLAIMER NOTE:
 THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

MARK	REVISION	DATE	BY
14950	TDP	10/14/2024	10:56 AM
Scale: 1" = 200'			W-7

14950
 MADISON, WI
 CONTRACT NO: 9481

WATER IMPACT PLAN
 LUDS LANE AND FEMRITE DRIVE CSM
 M:\DESIGN\Projects\14950\CAD\Water\14950WU Impact Plan.dwg



14950
 W-7

CONSTRUCTION NOTES:

- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------|--|------|---|------|--|------|---|------|-------------------------------------|------|---------------------------------------|------|---|------|------------------------|------|---|-------|-------------------------------------|-------|---|--------|---|
| <ol style="list-style-type: none"> CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM CROSSINGS AND OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE. | <table border="0"> <tr><td>WN-1</td><td>REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.</td></tr> <tr><td>WN-2</td><td>EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.</td></tr> <tr><td>WN-3</td><td>EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.</td></tr> <tr><td>WN-4</td><td>DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.</td></tr> <tr><td>WN-5</td><td>RELOCATE THE EXISTING FIRE HYDRANT.</td></tr> <tr><td>WN-6</td><td>ABANDON WATER VALVE ACCESS STRUCTURE.</td></tr> <tr><td>WN-7</td><td>FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.</td></tr> <tr><td>WN-8</td><td>ABANDON THE VALVE BOX.</td></tr> <tr><td>WN-9</td><td>FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.</td></tr> <tr><td>WN-10</td><td>REMOVE AND SALVAGE EXISTING HYDRANT</td></tr> <tr><td>WN-11</td><td>REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE</td></tr> <tr><td>WN-20+</td><td>SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.</td></tr> </table> | WN-1 | REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE. | WN-2 | EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN. | WN-3 | EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF. | WN-4 | DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN. | WN-5 | RELOCATE THE EXISTING FIRE HYDRANT. | WN-6 | ABANDON WATER VALVE ACCESS STRUCTURE. | WN-7 | FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE. | WN-8 | ABANDON THE VALVE BOX. | WN-9 | FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL. | WN-10 | REMOVE AND SALVAGE EXISTING HYDRANT | WN-11 | REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE | WN-20+ | SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION. |
| WN-1 | REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-2 | EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-3 | EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-4 | DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-5 | RELOCATE THE EXISTING FIRE HYDRANT. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-6 | ABANDON WATER VALVE ACCESS STRUCTURE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-7 | FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-8 | ABANDON THE VALVE BOX. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-9 | FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-10 | REMOVE AND SALVAGE EXISTING HYDRANT | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-11 | REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-20+ | SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION. | | | | | | | | | | | | | | | | | | | | | | | | |

ULO	UTILITY	STATION	OFFSET	SHEET
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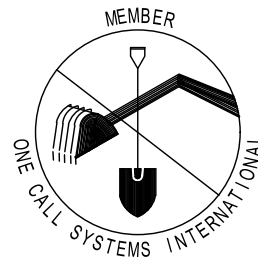
*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:			
PAY ITEM ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	180	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	40	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	1900	LNFT
70006	FURNISH AND INSTALL 16-INCH PIPE & FITTINGS	540	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	7	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	1	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	5	EACH
70040	FURNISH AND INSTALL AND SALVAGE HYDRANT	5	EACH
70101	FURNISH AND INSTALL STYROFOAM	9	EACH
71001	6-IN MJ CAP	3	EACH
71002	8-IN MJ CAP	1	EACH
71016	12-IN MJ PLUG	1	EACH
71018	16-IN MJ PLUG	1	EACH
71174	16X12-IN REDUCER	1	EACH
71217	12X6-IN TEE	8	EACH
71218	12X8-IN TEE	1	EACH
71231	16X12-IN TEE	1	EACH
71339	6X24-IN OFFSET	2	EACH
71340	8X12-IN OFFSET	1	EACH
*ESTIMATE OF MATERIALS SALVAGED:			
	12-IN MJ PLUG	1	EACH

* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

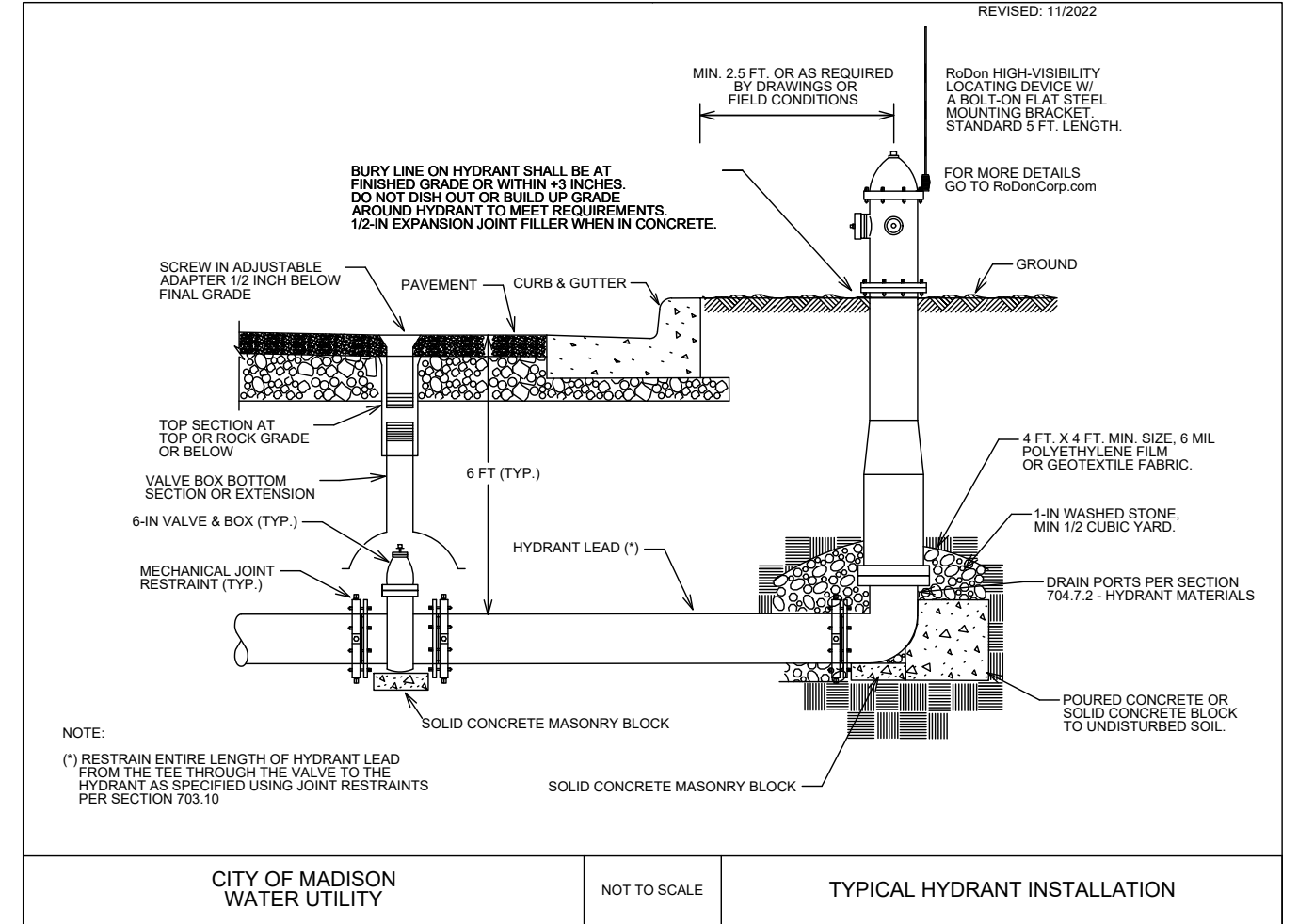
CALL DIGGERS HOTLINE TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS DETAIL DRAWING NO. **7.04**



CITY OF MADISON WATER UTILITY

NOT TO SCALE

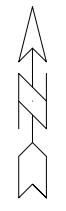
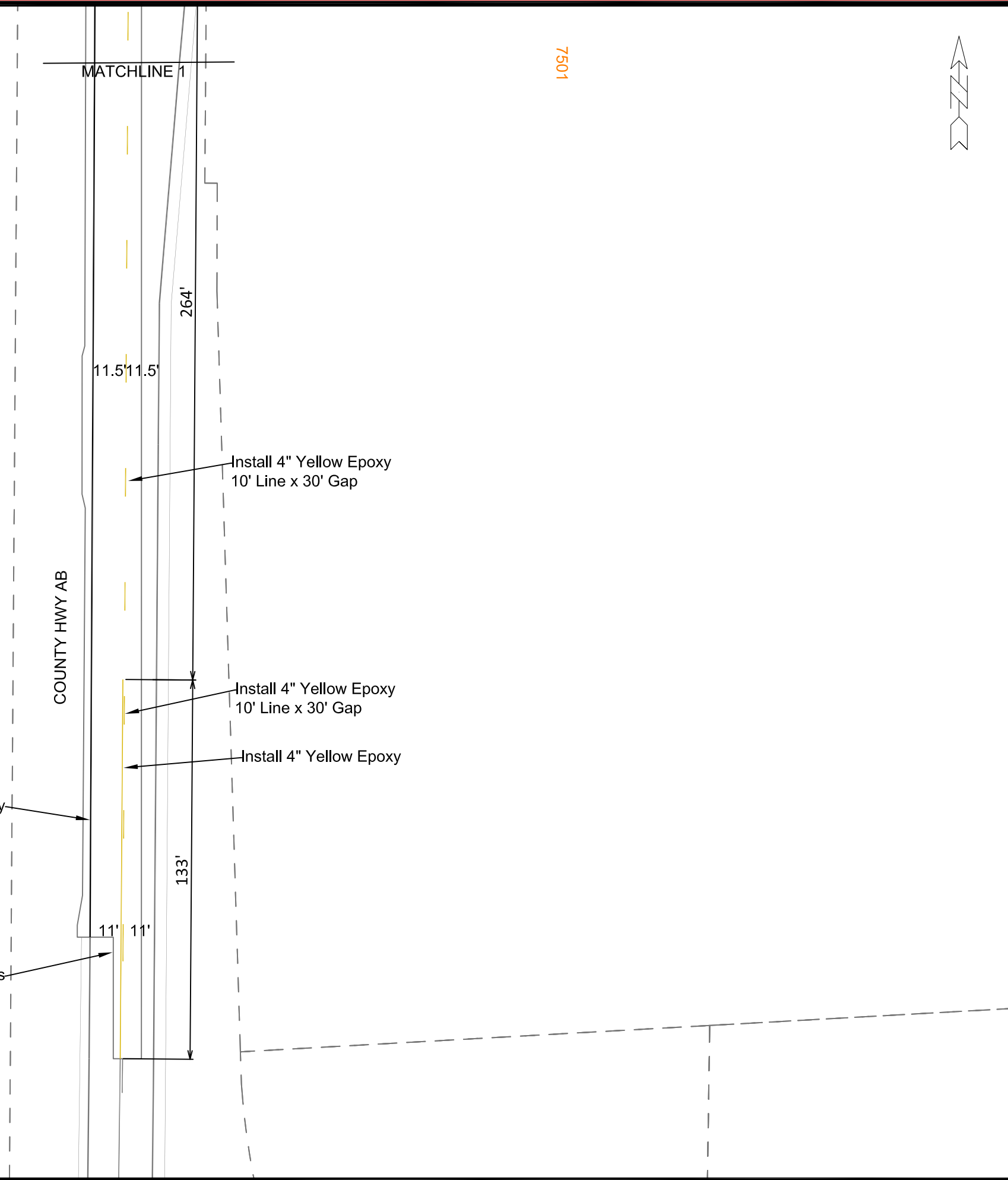
TYPICAL HYDRANT INSTALLATION

14950
 MADISON, WI
 9481
 CONTRACT NO.:
 WATER ESTIMATE OF MATERIALS
 LUDS LANE AND FEMRITE DRIVE CSM
 M:\DESIGN\Projects\14950\CAD\Water\14950WU Materials.dwg



14950
W-8

MARK	REVISION	DATE	BY
14950	10/14/2024	10:57 AM	W-8



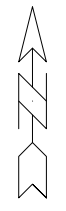
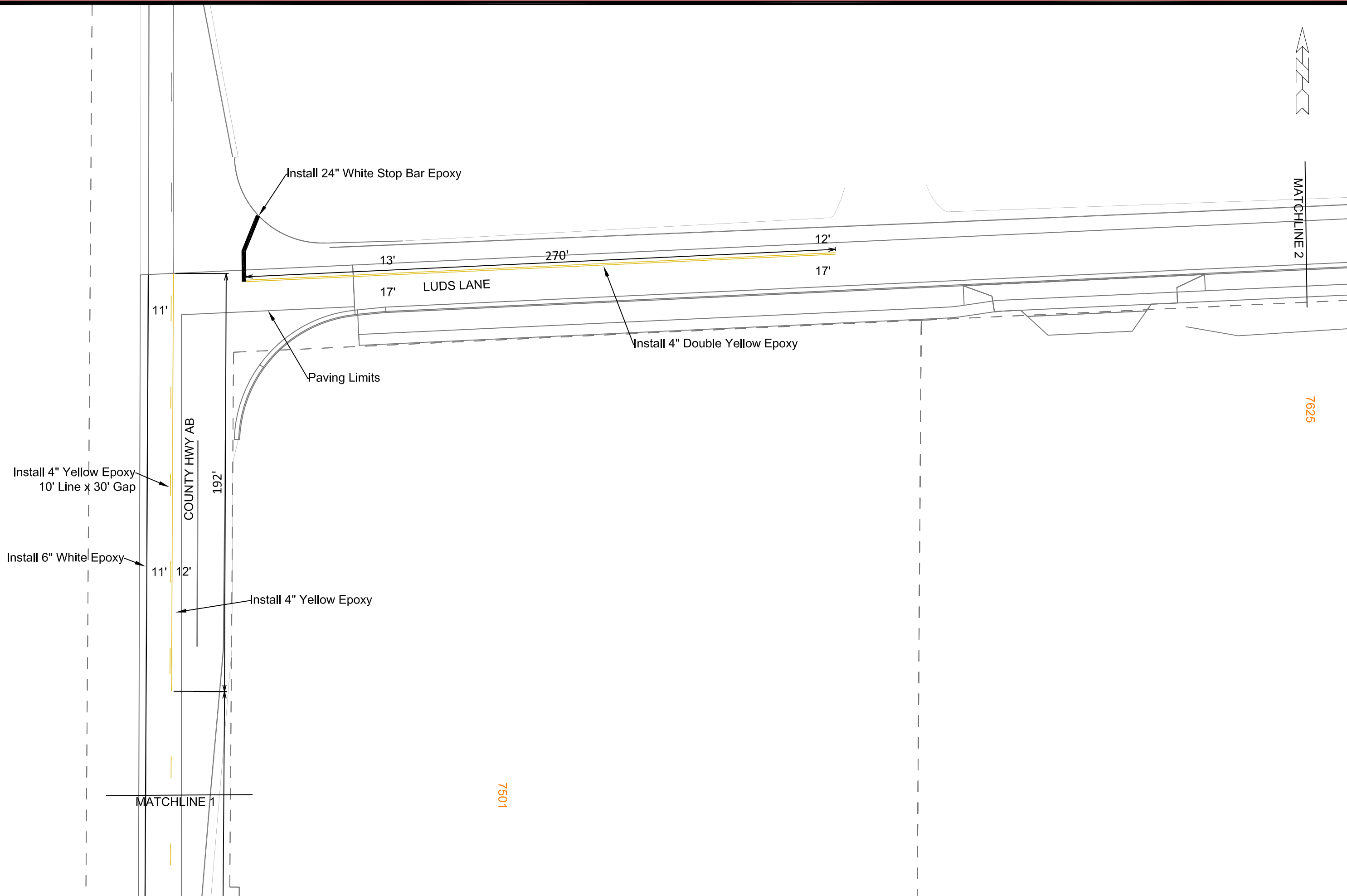
MARK	REVISION	DATE	BY
14950	Designed By: CLP	Date: 09/18/2024	

14950
MADISON, WI
CONTRACT NO: 9481

PAVEMENT MARKING PLAN
LUDS LANE AND FEMRITE DRIVE CSM
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14950
PM-1



MATCHLINE 2

7625

MATCHLINE 1

7501

MARK	REVISION	DATE	BY

14950
MADISON, WI

CONTRACT NO:
9481

PAVEMENT MARKING PLAN
LUDS LANE AND FEMRITE DRIVE CSM
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14950
PM-2

Designed By: CLP
Date: 09/18/2024
Scale: 1:40
PM-2

MATCHLINE 2

7625

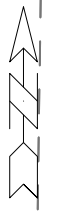
LUDS LANE

Paving Limits

Install 6" White Epoxy

62'

43.3'



PAVEMENT MARKING PLAN

LUDS LANE AND FEMRITE DRIVE CSM

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14950

MADISON, WI

9481

CONTRACT NO:



14950

PM-3

MARK	REVISION	DATE	BY
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Scale: 1:40

Designed By: CLP

Date: 09/18/2024

14950

PM-3

GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND JURISDICTIONAL SPECIFICATIONS AND REQUIREMENTS.
3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
5. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
6. CONTRACTOR SHALL RESTORE ALL BUILDINGS, PAVEMENT, PIPES, SLOPES, AND STRUCTURES DAMAGED BY THE CONTRACTOR TO PRE-EXISTING OR BETTER CONDITIONS.
7. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE JURISDICTIONAL AUTHORITY AND IS SUBJECT TO CHANGE AT ANY TIME.
8. ANY REFERENCES TO THE TERMS OR ENTITY ABBREVIATIONS IN THE FOLLOWING NOTES AND SPECIFICATIONS SHALL BE UNDERSTOOD AS FOLLOWS:
 - 8.1. "JURISDICTION " - THE LOCAL GOVERNMENTAL AGENCY (I.E. CITY, VILLAGE, TOWN, COUNTY, STATE OR UTILITY SERVICE PROVIDER) HAVING AUTHORITY.
 - 8.2. "STATE HIGHWAY SPECIFICATIONS" - STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENTS
 - 8.3. "STANDARD SPECIFICATIONS" - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, CURRENT EDITION & SUPPLEMENTS
 - 8.4. WISCONSIN DEPARTMENT OF TRANSPORTATION - "WISDOT"
 - 8.5. WISCONSIN DEPARTMENT OF NATURAL RESOURCES - "WDNR"
 - 8.6. DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES - "DSPS" OR "SPS"
9. THE PUBLIC IMPROVEMENT PLANS REFERENCED IN THESE PLANS SHALL BE CONSTRUED TO MEAN THE PLANS ISSUED BY THE CITY OF MADISON; **PROJECT #14950** AND ALL ITS REFERENCED AND ASSOCIATED DOCUMENTS.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE JURISDICTIONAL AUTHORITIES OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS AND JURISDICTIONAL REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.
3. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO WDNR TECHNICAL STANDARDS AND JURISDICTIONAL REQUIREMENTS. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE JURISDICTIONAL AUTHORITIES PRIOR TO DEVIATION OF THE APPROVED PLAN.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
5. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.
6. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. ANY DAMAGED EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED IMMEDIATELY UPON INSPECTION.
7. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. ADDITIONAL LOCATIONS OTHER THAN AS SHOWN ON THE PLANS MUST BE PRE-APPROVED BY THE JURISDICTION. CONSTRUCTION ENTRANCES SHALL BE 50' LONG AND NO LESS THAN 12" THICK BY USE OF 3" CLEAR STONE. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACKING OF MUD OR DRY SEDIMENT ONTO ADJACENT PUBLIC STREETS AFTER EACH WORKING DAY OR MORE FREQUENTLY AS REQUIRED.
8. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE JURISDICTIONAL AUTHORITIES.
9. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
10. INSTALL EROSION CONTROLS ON THE DOWNSTREAM SIDE OF STOCKPILES. IF STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A "TACKIFIER."
11. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.
12. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):
 - A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - B. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH THE WDNR DEWATERING TECHNICAL STANDARD NO. 1061 PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM, OR DRAINAGE DITCH.
13. ALL SLOPES 4:1 OR GREATER SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING PER STATE HIGHWAY SPECIFICATIONS OR APPLICATION OF A WISDOT APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED WITHIN 7 DAYS OF REACHING FINAL GRADE AND/OR AS SOON AS CONDITIONS ALLOW. DRAINAGE SWALES SHALL BE STABILIZED WITH CLASS I, TYPE B EROSION MATTING PER STATE HIGHWAY SPECIFICATIONS. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
14. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO CONTROL DUST ARISING FROM CONSTRUCTION OPERATIONS. REFER TO WDNR TECHNICAL STANDARD 1068.
15. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL LAND DISTURBING CONSTRUCTION ACTIVITY AT THE SITE HAS BEEN COMPLETED AND THAT A UNIFORM PERENNIAL VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A CONTIGUOUS DENSITY OF AT LEAST 70% FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES OR THAT EMPLOY EQUIVALENT PERMANENT STABILIZATION MEASURES.
16. CONTRACTOR/OWNER SHALL FILE A NOTICE OF TERMINATION UPON COMPLETION OF THE PROJECT IN ACCORDANCE WITH WDNR REQUIREMENTS AND/OR REQUEST FOR PERMIT CLOSURE IN ACCORDANCE WITH JURISDICTION PERMIT AND SPECIFICATION REQUIREMENTS.
17. STABILIZATION PRACTICES - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED UNLESS:
 - 17.1. THE INITIATION STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS CEASED OR IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - 17.2. CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITY CEASED, [I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS.] IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED.
 - 17.3. STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME OF WHEN CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES:
 - PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED CONSTRUCTION SPECIFICATION
 - TEMPORARY SEEDING; MAY CONSIST OF SPRING OATS(100LBS/ACRE) IN SPRING/SUMMER OR WHEAT OR CEREAL RYE (150LB/ACRE) IN FALL.
 - HYDRO-MULCHING WITH A TACKIFIER
 - WOVEN AND NON-WOVEN GEOTEXTILES
 - EROSION MATTING
 - SODDING
 - OTHER MEASURES AS APPROVED BY THE ENGINEER



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PROJECT:
**PUBLIC SAFETY
COMMUNICATIONS
PUBLIC IMPROVEMENTS**

PROJECT LOCATION:
**8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558**

PLAN MODIFICATIONS:

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Designed By: MSS
Reviewed By: ACG
Approved By: MSS

SHEET TITLE:

**NOTES &
SPECIFICATIONS**

SHEET NUMBER:

ST-1

JSD PROJECT NO: 22-11600

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SEEDING AND RESTORATION NOTES

- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES. WHILE JSD PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
- ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
- CONTRACTOR SHALL PROVIDE NOTICE TO THE JURISDICTIONAL AUTHORITIES IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.

- ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES PER CITY OF MADISON SPECIFICATIONS.
- CONTRACTOR SHALL WATER ALL NEWLY SODDED/SEEDED AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
- CONTRACTOR TO DEEP TILL ALL COMPACTED PERVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
- ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
- ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF MADISON STANDARD SPECIFICATIONS.

UTILITY NOTES

- ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
 - EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND JURISDICTIONAL AUTHORITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
 - COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC UTILITIES AND STATE DSPS/SPS AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE JURISDICTIONAL AUTHORITIES.

- SPECIFICATIONS SHALL COMPLY WITH THE JURISDICTIONAL AUTHORITY'S SPECIAL PROVISIONS.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
- CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
- CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
- THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE JURISDICTIONAL AUTHORITY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE INSTALLED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.

CONSTRUCTION SITE DEWATERING NOTES

- ALL CONSTRUCTION SITE DEWATERING PRACTICES SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 FOR PUMPING DISCHARGE RATES OF LESS THAN 70 GPM. CONTRACTOR SHALL BE RESPONSIBLE FOR APPLICABLE JURISDICTIONAL DEWATERING PERMITS. FOR DISCHARGE RATES EXCEEDING 70 GPM, CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING OF DEWATERING SYSTEM AS A HIGH CAPACITY DEWATERING WELL WITH WDNR AND LOCAL JURISDICTIONS.

- CONTRACTOR SHALL DISCHARGE TREATED EFFLUENT FROM DEWATERING SYSTEM TO LOCATIONS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061. CONTRACTOR SHALL OBTAIN APPROVAL FROM LOCAL JURISDICTION OR ADJACENT PRIVATE PROPERTY OWNERS FOR ALL DISCHARGES TO JURISDICTION'S PUBLIC INFRASTRUCTURE OR PRIVATE PROPERTY.
- IN THE EVENT OF DIRTY/UNCLEAR DISCHARGE, CONTRACTOR SHALL HALT PUMPING OPERATIONS AND EVALUATE THE DEWATERING TREATMENT/FILTERING SYSTEM.

STORMWATER FACILITIES CONSTRUCTION NOTES

- ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF STORMWATER MANAGEMENT FACILITIES. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES SHALL BE OBSERVED AND DOCUMENTED BY THE ENGINEER, OR AN OWNER'S REPRESENTATIVE.
- STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AFTER SUBSTANTIAL COMPLETION OF FINAL SITE GRADING AND SOILS HAVE BEEN STABILIZED.
- AREAS USED FOR TEMPORARY SEDIMENT BASINS SHALL BE REMOVED IN THEIR ENTIRETY AFTER CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES.

- THE STORMWATER MANAGEMENT FEATURES CONTAINED WITHIN THIS PLAN SET HAVE BEEN DESIGNED IN ACCORDANCE WITH APPLICABLE STANDARDS SET FORTH IN WISCONSIN DNR NR151 AND LOCAL ORDINANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER CONSTRUCTION PRACTICES HAVE BEEN UTILIZED AND THAT STORMWATER MANAGEMENT FEATURES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH APPROVED DESIGN PLANS. JSD PROFESSIONAL SERVICES, INC. (JSD) SHALL NOT BE LIABLE FOR ANY CONSTRUCTION PRACTICES OR INSTALLATION WHICH DEVIATES FROM THE APPROVED PLAN SET. ONCE THE OWNER HAS PROVIDED FINAL APPROVAL TO THE WORK PERFORMED BY THE CONTRACTOR AND ENSURED COMPLIANCE WITH THE PLAN, IT IS THE OWNER'S RESPONSIBILITY TO MAINTAIN STORMWATER MANAGEMENT FEATURES IN ACCORDANCE WITH THE RECORDED MAINTENANCE AGREEMENT. PROPER OPERATION IS DEPENDENT ON A MULTITUDE OF VARIABLES INCLUDING WEATHER. THESE COMPONENTS REQUIRE ONGOING MAINTENANCE FOR WHICH THE OWNER IS RESPONSIBLE. JSD TAKES NO RESPONSIBILITY FOR PROPER OPERATION OF THE WATER QUALITY COMPONENTS.

LEGEND

	PROPERTY LINE		EXISTING 1 FOOT CONTOUR		EROSION MATTING, CLASS I TYPE B		INLET PROTECTION
	RIGHT-OF-WAY		EXISTING 5 FOOT CONTOUR		EROSION MATTING, URBAN TYPE A		
	EASEMENT LINE		STORM SEWER		SPOT ELEVATION, FINISH GRADE		
	PROPOSED 1 FOOT CONTOUR		SILT FENCE		SILT SOCK DITCH CHECK		
	PROPOSED 5 FOOT CONTOUR		RIP-RAP				



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PROJECT:
**PUBLIC SAFETY
COMMUNICATIONS
PUBLIC IMPROVEMENTS**

PROJECT LOCATION:
**8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558**

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Reviewed By: ACG
Approved By: MSS

SHEET TITLE:

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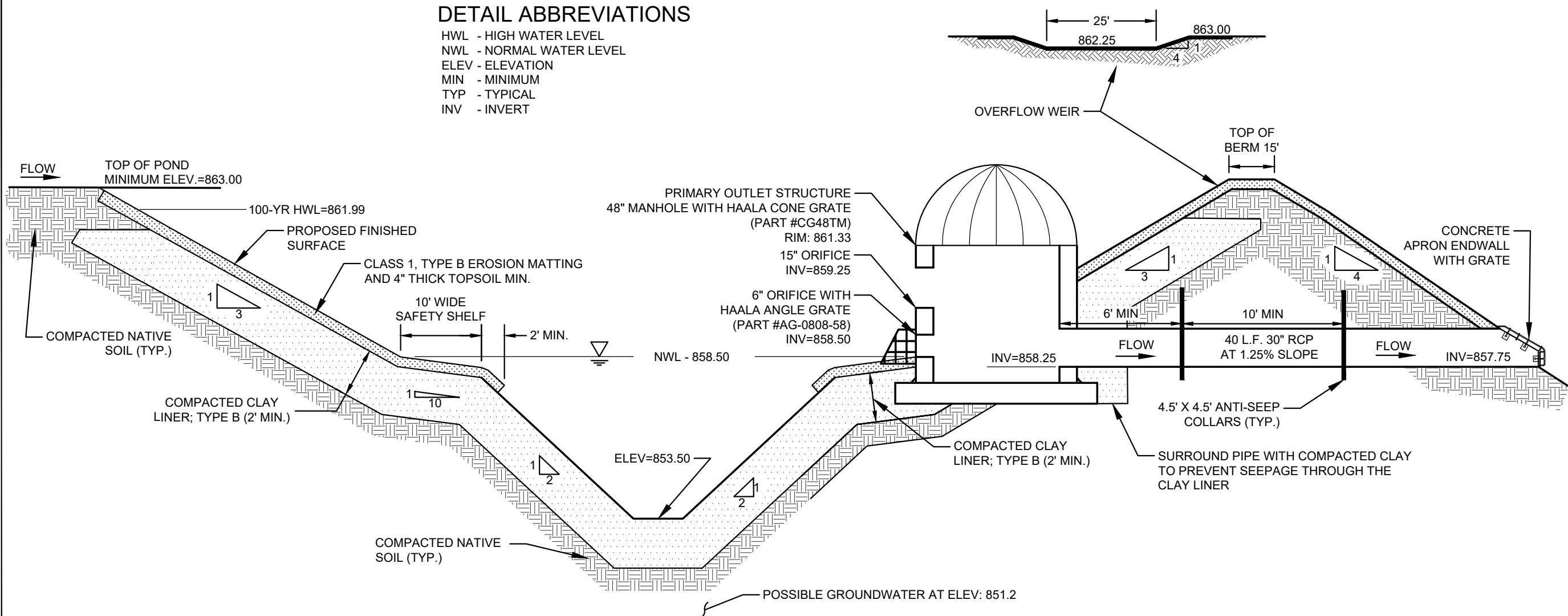
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JSD PROJECT NO: 22-11600



DETAIL ABBREVIATIONS

- HWL - HIGH WATER LEVEL
- NWL - NORMAL WATER LEVEL
- ELEV - ELEVATION
- MIN - MINIMUM
- TYP - TYPICAL
- INV - INVERT



WET BASIN NOTES & SPECIFICATIONS

1. ALL CONSTRUCTION SHALL MEET THE SPECIFICATIONS OF "WDNR WET DETENTION BASIN, TECHNICAL STANDARD 1001". IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THIS STANDARD AND CONSTRUCT THE BASIN IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED THEREIN.
2. ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE STORM WATER MANAGEMENT PLAN FOR THE PROJECT SITE AS APPROVED BY THE REGULATORY ENGINEER OF RECORD.
3. RCP PIPING & INSTALLATION WITHIN THE BASIN SHALL BE IN ACCORDANCE WITH (ASTM C-76/C443) WITH RUBBER GASKETS.
4. REFER TO SEEDING SPECIFICATIONS ON SHEET ST-4 FOR SEED MIX AND SEEDING RATES FOR BASIN SIDES SLOPES.
5. CLAY LINER SHALL BE A MINIMUM OF 2-FEET THICK. CLAY SHALL BE COMPACTED AT ±2.0% OPTIMAL MOISTURE CONTENT TO 90% MODIFIED PROCTOR. MEDIUM STIFF TO STIFF CLAYS PRESENT IN-PLACE AT THE POND SIDE SLOPES OR BOTTOM OR OTHER ONSITE MEDIUM STIFF TO STIFF CLAYS MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER OF RECORD. CLAY LINER TO MEET CRITERIA FOR TYPE B CLAY LINER PER DNR TECHNICAL STANDARD 1001.
 - 5.1. GEOTECHNICAL ENGINEER TO PROVIDE FINAL SOIL REPORT OF CLAY LINER TO ENGINEER FOR AS-BUILT CERTIFICATION.

6. FOR CONSTRUCTED EMBANKMENTS WHERE THE PERMANENT POOL IS PONDED 3-FEET OR MORE AGAINST THE EMBANKMENT, THERE SHALL BE A CORE TRENCH OR KEYWAY ALONG THE CENTERLINE OF THE EMBANKMENT UP TO THE PERMANENT POOL ELEVATION. THE CORE TRENCH OR KEYWAY SHALL BE A MINIMUM OF 2-FEET DEEP AND 8-FEET WIDE WITH A SIDE SLOPE OF 1:1 OR FLATTER.
7. CONTRACTOR SHALL POSITION ANTI-SEEP COLLAR SUCH THAT THE COLLARS ARE COMPLETELY CONTAINED WITHIN EMBANKMENT.
8. IMMEDIATELY INSTALL FILTER FABRIC OVER ALL OUTLETS TO PREVENT SEDIMENT DEPOSITION IN THE PIPING (REMOVE FOLLOWING CONTRIBUTING AREA STABILIZATION).
9. THE CONTRACTOR IS REQUIRED TO PROVIDE QUALIFIED STAFF FOR INSPECTION AND OBSERVATION OF THE CONSTRUCTION ACTIVITIES RELATING TO ALL JOB SITE REGULATORY COMPLIANCE INCLUDING THE PROTECTION AND CONSTRUCTION OF ALL STORMWATER MANAGEMENT FEATURES. ANY OBSERVATION OF PLAN OR SITE DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
10. UPON CONSTRUCTION COMPLETION AND STABILIZATION, AN AS-BUILT SURVEY IS TO BE CONDUCTED FOR BASIN AND CERTIFIED BY THE ISSUING ENGINEER. AS-BUILT PLANS ARE TO BE SUBMITTED TO MUNICIPALITY FOR FINAL APPROVAL.
 - 10.1. CONTRACTOR TO PROVIDE CONSTRUCTION PHOTOS THROUGHOUT CONSTRUCTION
 - 10.2. RECOMEND THE BASIN SIZE AND ELEVATIONS VERIFIED PRIOR TO THE CLAY LINER BEING INSTALLED AND AFTER THE LINER IS INSTALLED TO VERIFY PRIOR TO FINAL STABILIZATION

WET BASIN DETAIL

N.T.S.



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PROJECT:

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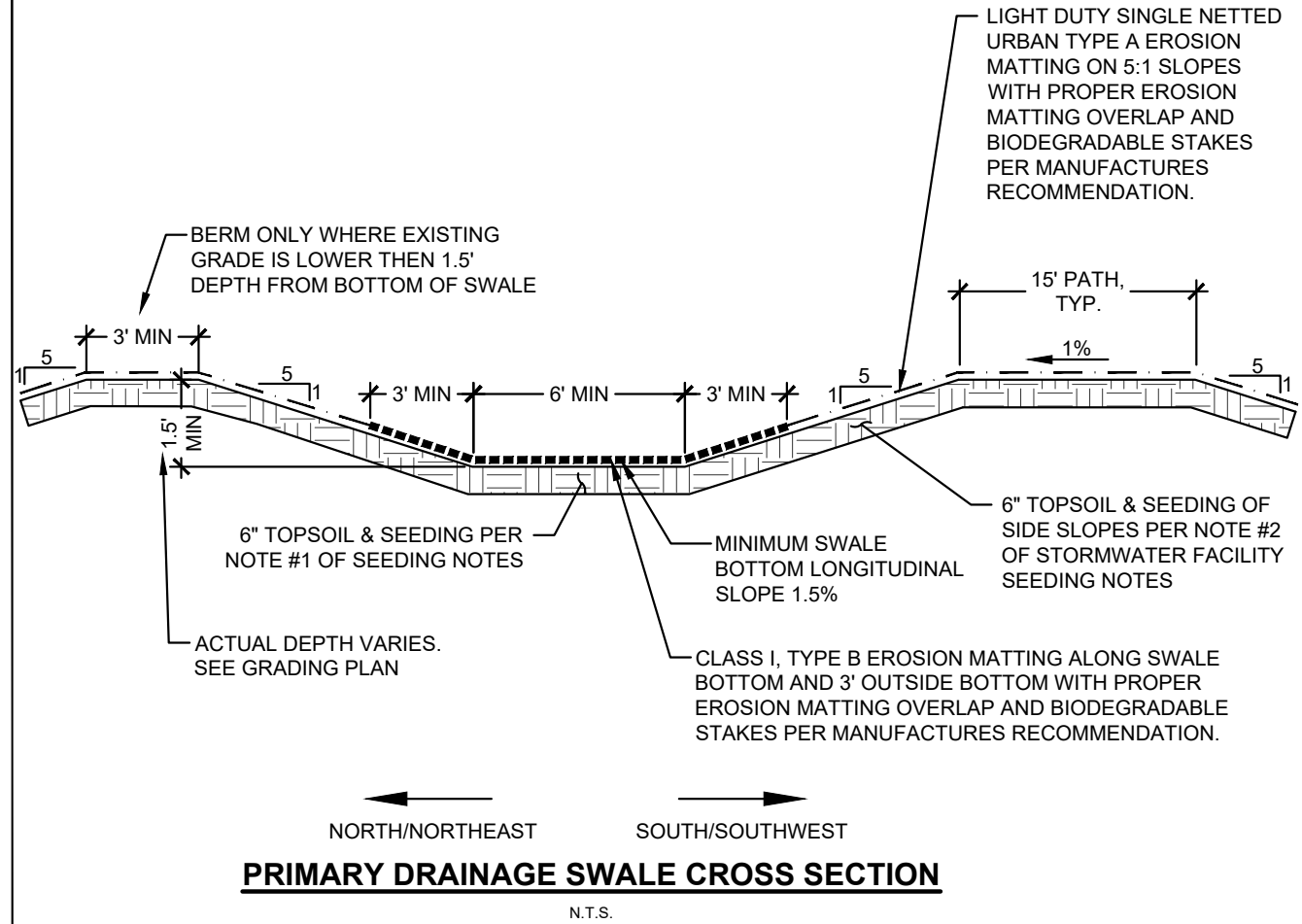
WET BASIN DETAILS & SPECIFICATIONS

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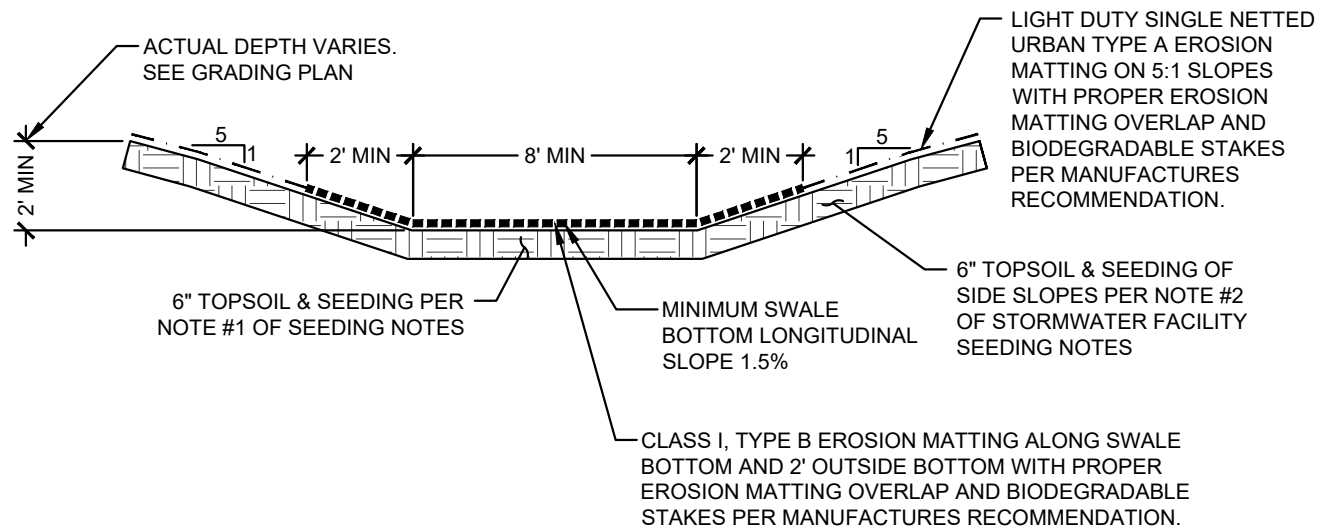
JSD PROJECT NO: 22-11600

File: \\JSD\proj\proj\2024\2211600\DWG\Civil\Sheets\2211600_Con Docs PUB.dwg Layout: ST-4_SWALE DETAILS User: matt.saunders Plotted: Sep 18, 2024 - 4:15pm Xrefs:



PRIMARY DRAINAGE SWALE CROSS SECTION

N.T.S.



BYPASS DRAINAGE SWALE CROSS SECTION

N.T.S.

SEEDING NOTES

1. SWALE BOTTOM SEED MIX: THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - 1.1. "DETENTION BASIN SEED MIX" AS MANUFACTURED BY PRAIRIE NURSERY, WESTFIELD, WI. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - 1.2. "DETENTION BASIN SEED MIX" AS MANUFACTURED BY PRAIRIE MOON NURSERY, WINONA, MN. SEED SHALL BE PLACED AT A RATE OF 9.44 LBS PER ACRE.
 - 1.3. "RAINWATER RENEWAL MIX" AS MANUFACTURED BY AGRECOL LLC, EVANSVILLE, WI. SEED SHALL BE PLACED AT A RATE OF 8 LBS PER ACRE.
 - 1.4. "DETENTION BASIN & RAINGARDEN MIX" AS MANUFACTURED BY SHOOTING STAR NATIVE SEED, SPRING GROVE, MN. SEED SHALL BE PLACED AT A RATE OF 8 LBS PER ACRE.
2. WET BASIN SEED MIX: INTERIOR BASIN SLOPES FROM ELEVATION 856.5 TO 863.0 TO BE BROADCAST SEEDED WITH "WET PRAIRIE MIX", AS PROVIDED BY AGRECOL.
 - 2.1. AGRECOL - NATIVE SEED & PLANT NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964, TEL. 608-296-3679 (OR APPROVED EQUIVALENT).
 - 2.2. INSTALL SEED WITH SUPPLEMENTAL MATERIALS AND AMENDMENTS AS RECOMMENDED BY SEED SUPPLIER AND AT RATES AND OPTIMUM TIMES OF THE YEAR AS RECOMMENDED BY THE SEED SUPPLIER TO ENSURE SUCCESSFUL GERMINATION AND SEED/ROOT ZONE GROWTH DEVELOPMENT. REFER TO PRODUCT SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.
3. ALL OTHER DISTURBED AREAS SEED MIX:
 - 3.1. 85% OF THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - 3.1.1. "TALL PRAIRIE FOR MEDIUM TO CLAY SOILS" AS MANUFACTURED BY PRAIRIE NURSERY, WESTFIELD, WI. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - 3.1.2. "POLLINATOR-PALOOZA SEED MIX" AS MANUFACTURED BY PRAIRIE MOON NURSERY, WINONA, MN. SEED SHALL BE PLACED AT A RATE OF 6.59 LBS PER ACRE.
 - 3.1.3. "TALLGRASS PRAIRIE FOR MEDIUM SOILS" AS MANUFACTURED BY AGRECOL LLC, EVANSVILLE, WI. SEED SHALL BE PLACED AT A RATE OF 13.25 LBS PER ACRE.
 - 3.1.4. "BASIC PRAIRIE MIX" AS MANUFACTURED BY SHOOTING STAR NATIVE SEED, SPRING GROVE, MN. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - 3.2. 15% OF THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - 3.2.1. "GRAND DIVERSITY PRAIRIE SEED MIX" AS MANUFACTURED BY PRAIRIE MOON NURSERY, WINONA, MN. SEED SHALL BE PLACED AT A RATE OF 13.85 LBS PER ACRE.
 - 3.2.2. "DIVERSE PRAIRIE FOR MEDIUM SOILS" AS MANUFACTURED BY PRAIRIE NURSERY, WESTFIELD, WI. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - 3.2.3. "BIRD & BUTTERFLY MIX" AS MANUFACTURED BY AGRECOL LLC, EVANSVILLE, WI. SEED SHALL BE PLACED AT A RATE OF 13 LBS PER ACRE.
4. SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO CITY ENGINEERING FOR REVIEW AND APPROVAL. CONTRACTOR IS NOTIFIED THAT IF AN ALTERNATIVE IS ALLOWED, THE RATE OF SEED MAY BE ALTERED AS A CONDITION OF APPROVAL, AND SEED SHALL BE NATIVE ECOTYPES. NO IMPROVED VARIETIES ARE ALLOWED. SEED SOURCE SHALL BE NATIVE ECOTYPES FROM SOUTHEASTERN MINNESOTA, EASTERN IOWA, SOUTHERN WISCONSIN OR NORTHERN ILLINOIS.
5. VEGETATION ESTABLISHMENT IN WET BASIN AND ALL OTHER DISTURBED AREAS TO BE COMPLETED BY A CONTRACTOR WITH EXPERTISE IN NATIVE VEGETATION ESTABLISHMENT.



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MADISON REGIONAL OFFICE
507 WEST VERONA AVENUE, SUITE 500
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:



WOLD ARCHITECTS
AND ENGINEERS
332 HILMWOOD STREET, SUITE 10200
SAINT PAUL, MN 55101
woldinc.com | 651.227.7773

PROJECT:
**PUBLIC SAFETY
COMMUNICATIONS
PUBLIC IMPROVEMENTS**

PROJECT LOCATION:
**8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558**

PLAN MODIFICATIONS:

#	Date:	Description:
1	02.09.2024	CITY SUBMITTAL
2	03.21.2024	CITY RE-SUBMITTAL
3	06.20.2024	CITY RE-SUBMITTAL
4	09.19.2024	ISSUED FOR CONSTRUCTION
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12		
13		
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Designed By: MSS
Reviewed By: ACG
Approved By: MSS

SHEET TITLE:
**GRASSED SWALE
DETAILS &
SPECIFICATIONS**

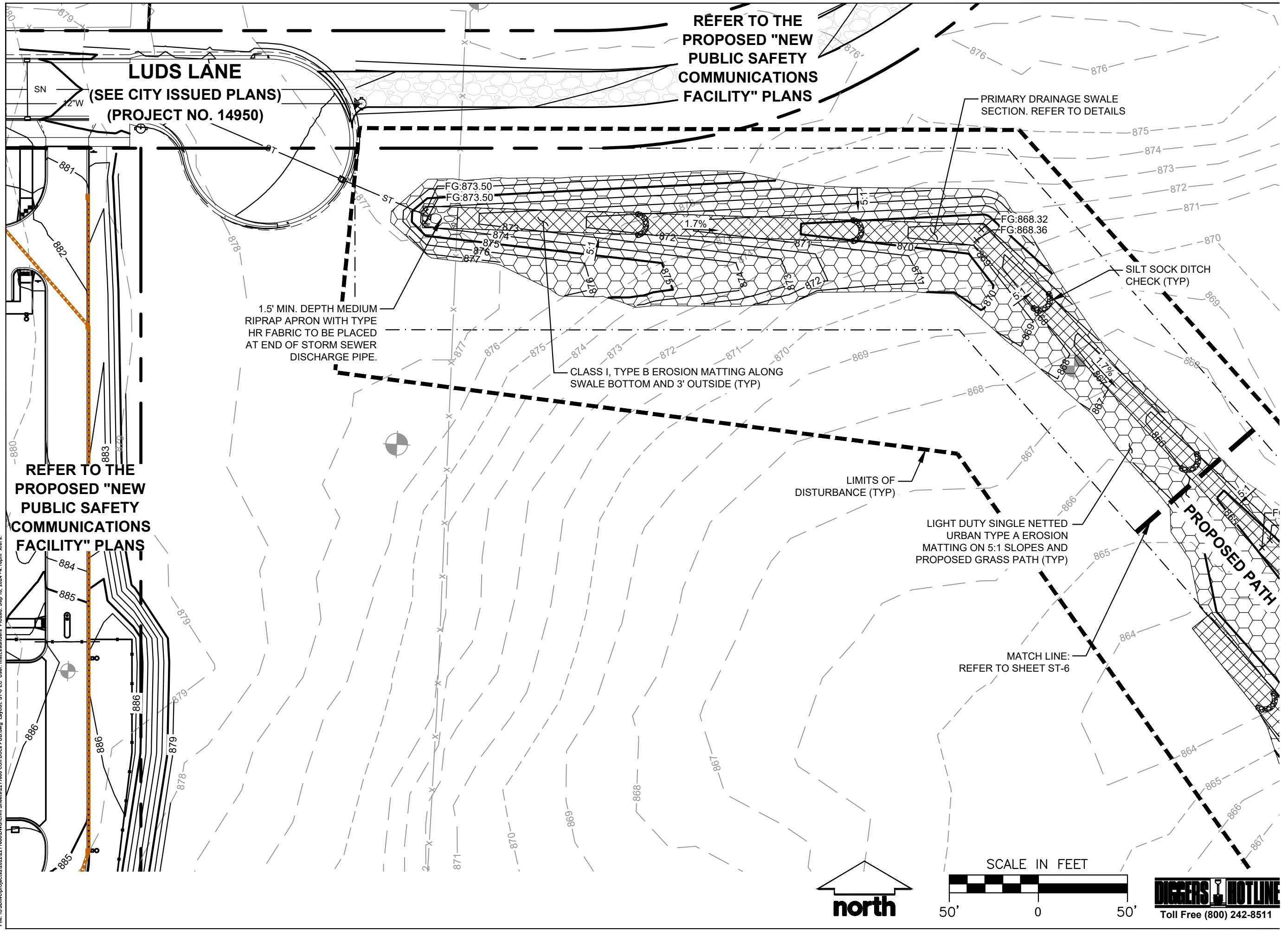
SHEET NUMBER:
ST-4

JSD PROJECT NO: 22-11600



Toll Free (800) 242-8511

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RÉFER TO THE
PROPOSED "NEW
PUBLIC SAFETY
COMMUNICATIONS
FACILITY" PLANS

LUDS LANE
(SEE CITY ISSUED PLANS)
(PROJECT NO. 14950)

PRIMARY DRAINAGE SWALE
SECTION. REFER TO DETAILS

1.5' MIN. DEPTH MEDIUM
RIPRAP APRON WITH TYPE
HR FABRIC TO BE PLACED
AT END OF STORM SEWER
DISCHARGE PIPE.

CLASS I, TYPE B EROSION MATTING ALONG
SWALE BOTTOM AND 3' OUTSIDE (TYP)

SILT SOCK DITCH
CHECK (TYP)

LIMITS OF
DISTURBANCE (TYP)

LIGHT DUTY SINGLE NETTED
URBAN TYPE A EROSION
MATTING ON 5:1 SLOPES AND
PROPOSED GRASS PATH (TYP)

PROPOSED PATH

MATCH LINE:
REFER TO SHEET ST-6

RÉFER TO THE
PROPOSED "NEW
PUBLIC SAFETY
COMMUNICATIONS
FACILITY" PLANS

SCALE IN FEET



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507 WEST VERONA AVENUE, SUITE 500
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:



WOLD ARCHITECTS
AND ENGINEERS
332 HILTONWOOD AVENUE, SUITE 10200
STAIN PAUL, MN 55101
wolda.com | 651.227.2773

PROJECT:
**PUBLIC SAFETY
COMMUNICATIONS
PUBLIC IMPROVEMENTS**

PROJECT LOCATION:
8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558

PLAN MODIFICATIONS:

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Designed By: MSS
Reviewed By: ACG
Approved By: MSS

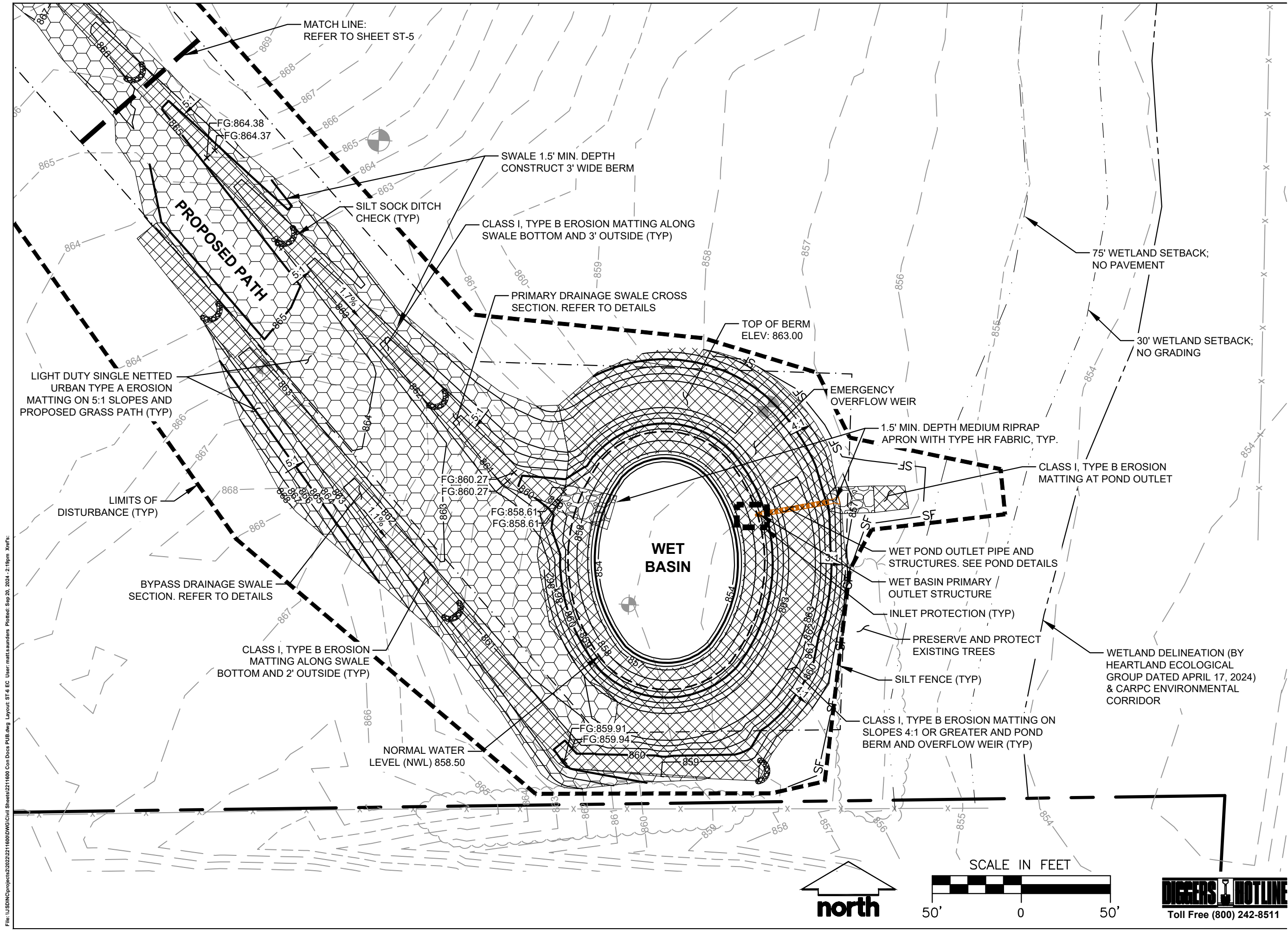
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**GRADING & EROSION
CONTROL PLAN - NORTH**

SHEET NUMBER:
ST-5

JSD PROJECT NO: 22-11600

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507 WEST VERONA AVENUE, SUITE 500
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:



WOLD ARCHITECTS AND ENGINEERS
332 HILTONWOOD AVENUE, SUITE 10200
SAINTE PIERRE, MN 55101
woldinc.com | 651.227.2773

PROJECT:
PUBLIC SAFETY COMMUNICATIONS PUBLIC IMPROVEMENTS

PROJECT LOCATION:
**8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558**

PLAN MODIFICATIONS:

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3	06.20.2024	CITY RE-SUBMITTAL
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Designed By: MSS
Reviewed By: ACG
Approved By: MSS

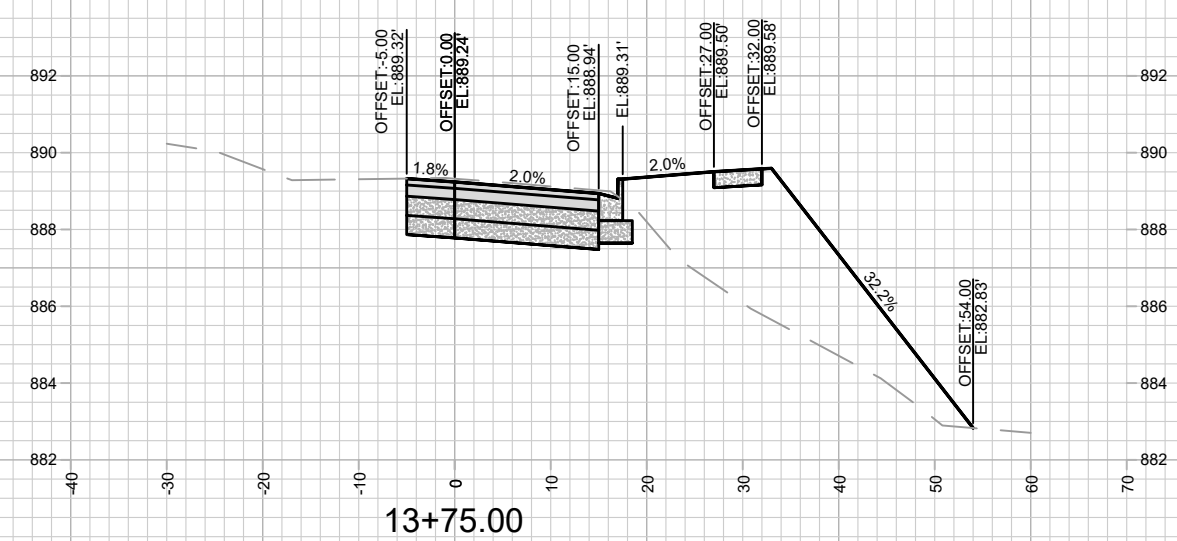
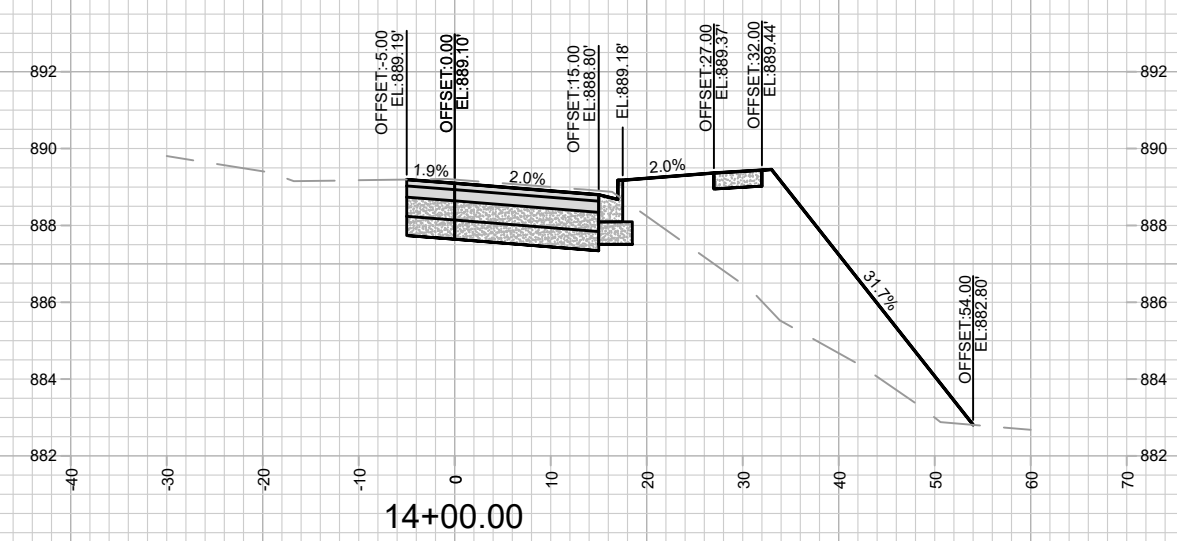
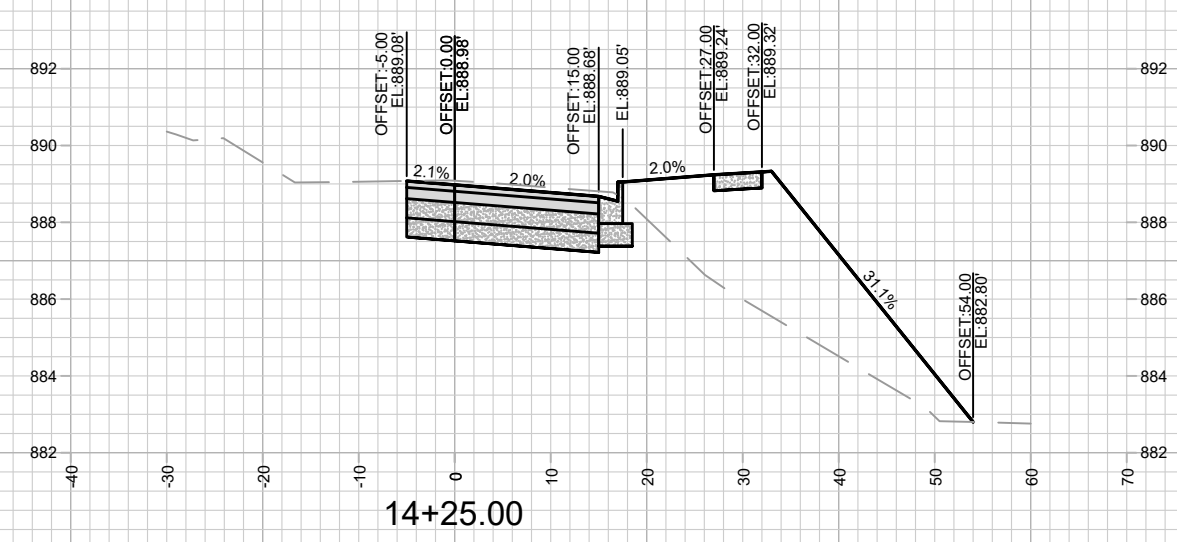
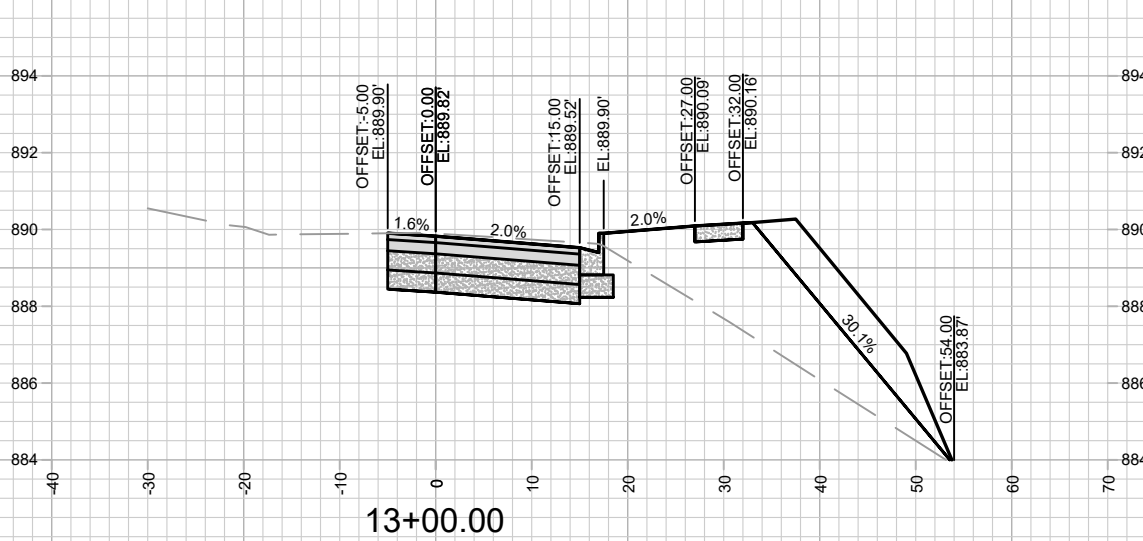
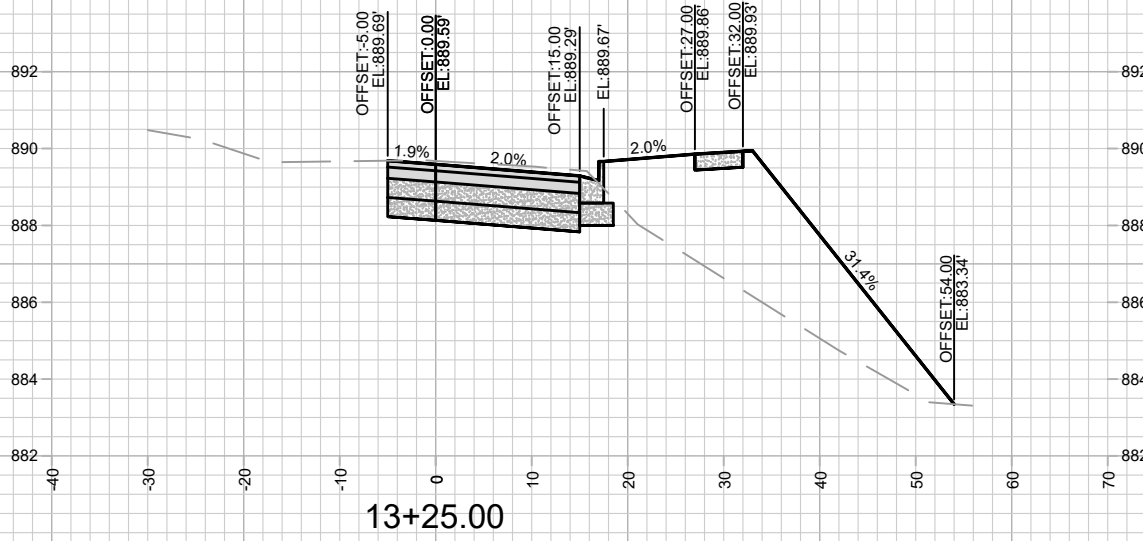
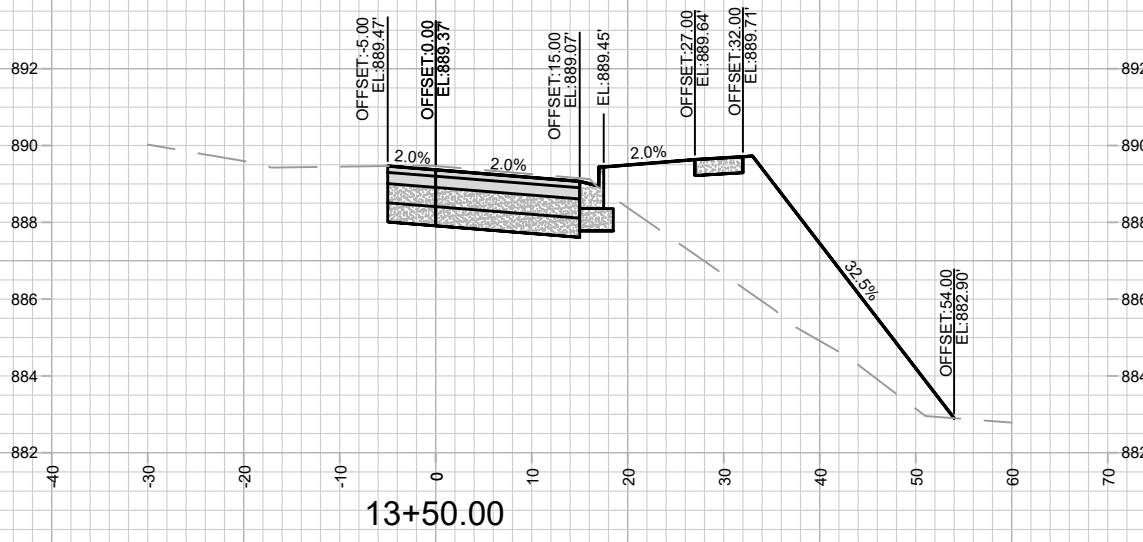
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GRADING & EROSION CONTROL PLAN - SOUTH

SHEET NUMBER:
ST-6

JSD PROJECT NO: 22-11600

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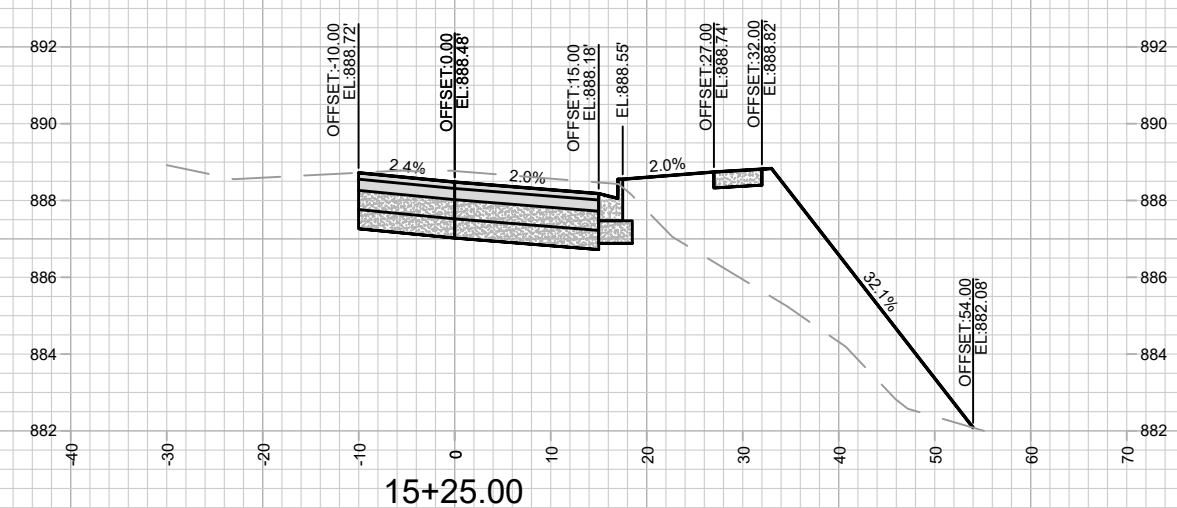
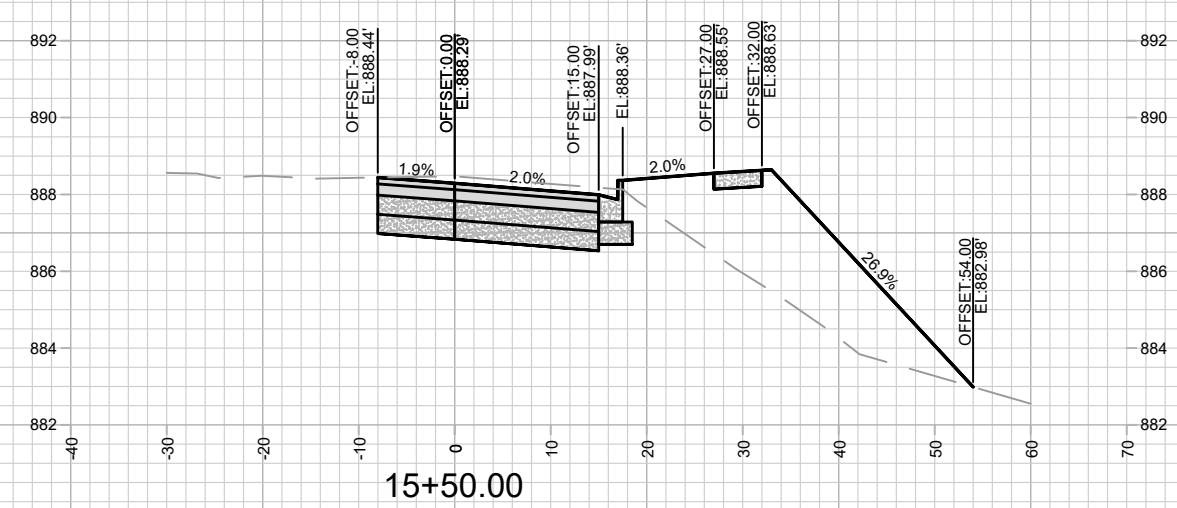
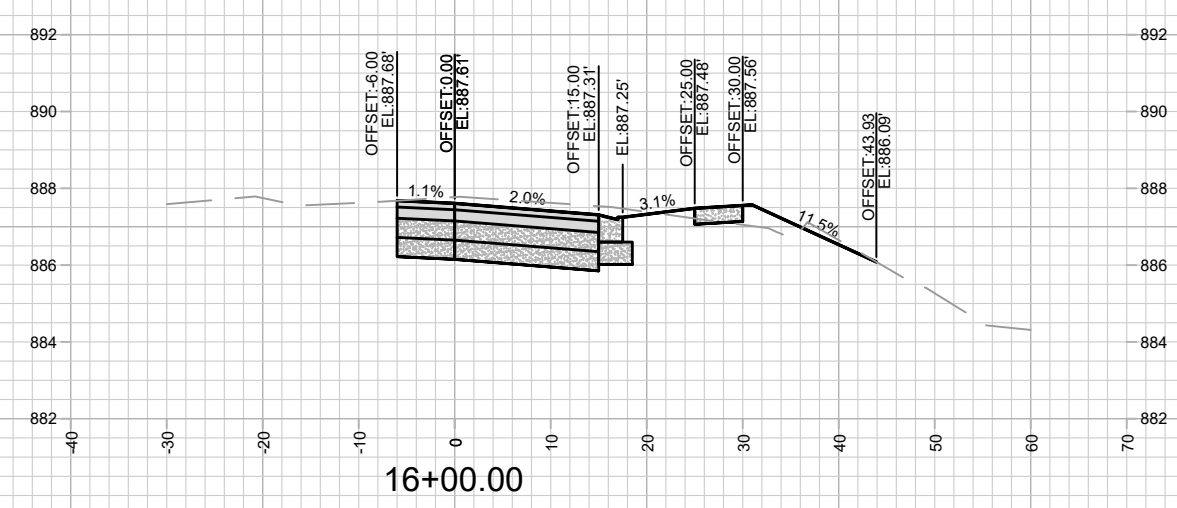
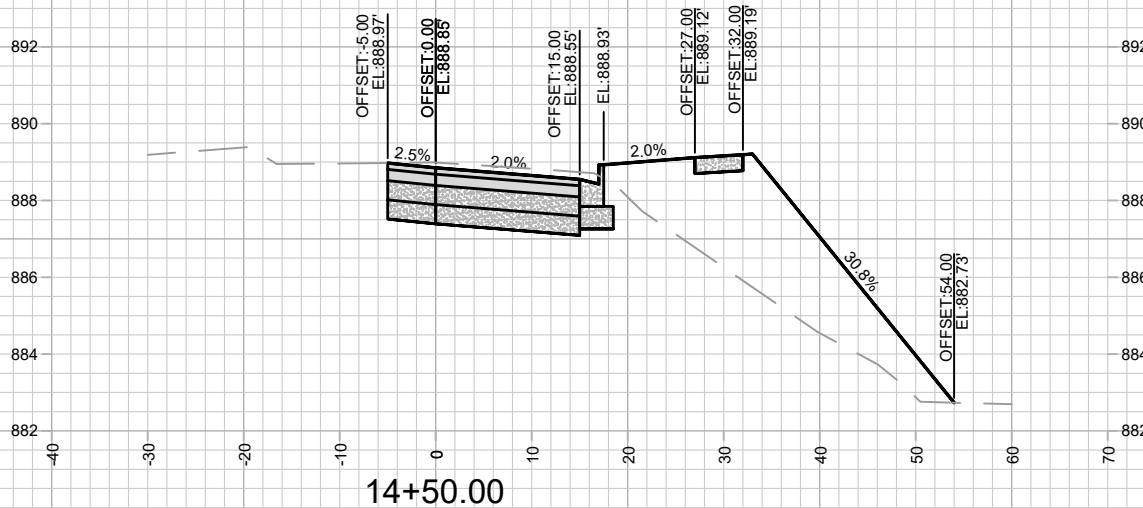
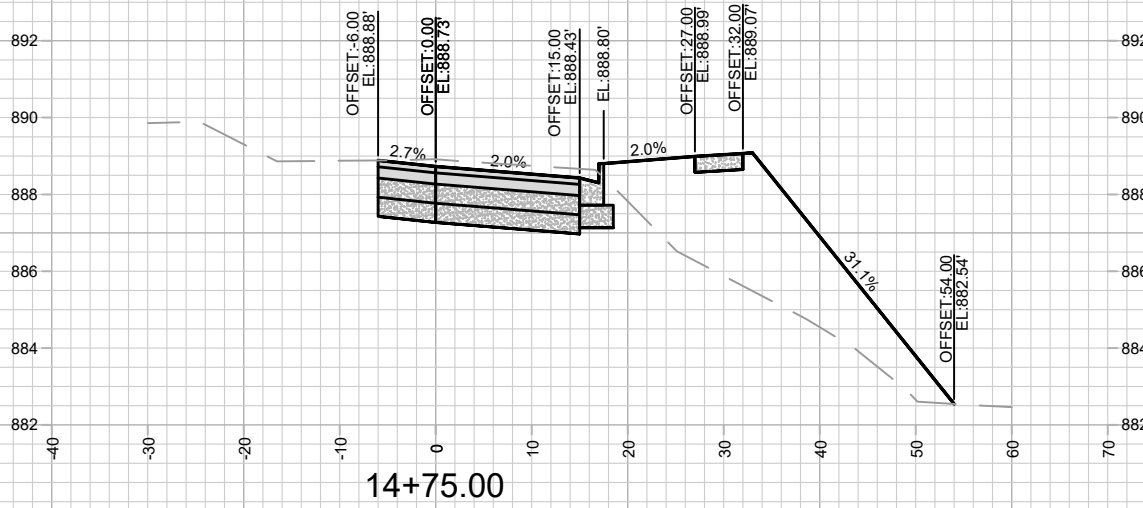
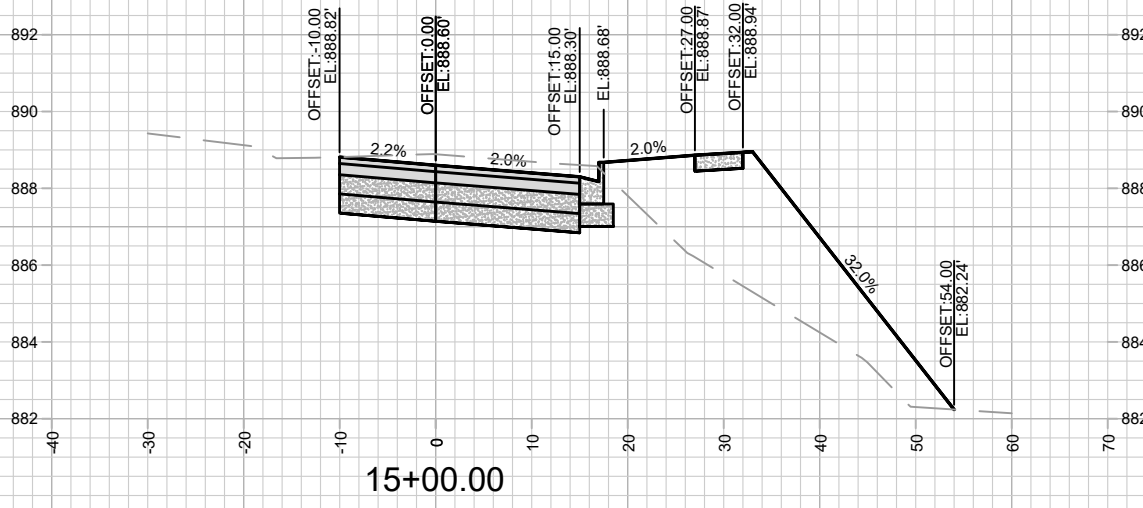


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MADISON, WI
9481
CONTRACT NO:

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LUDS LANE AND FEMRITE DRIVE CSM
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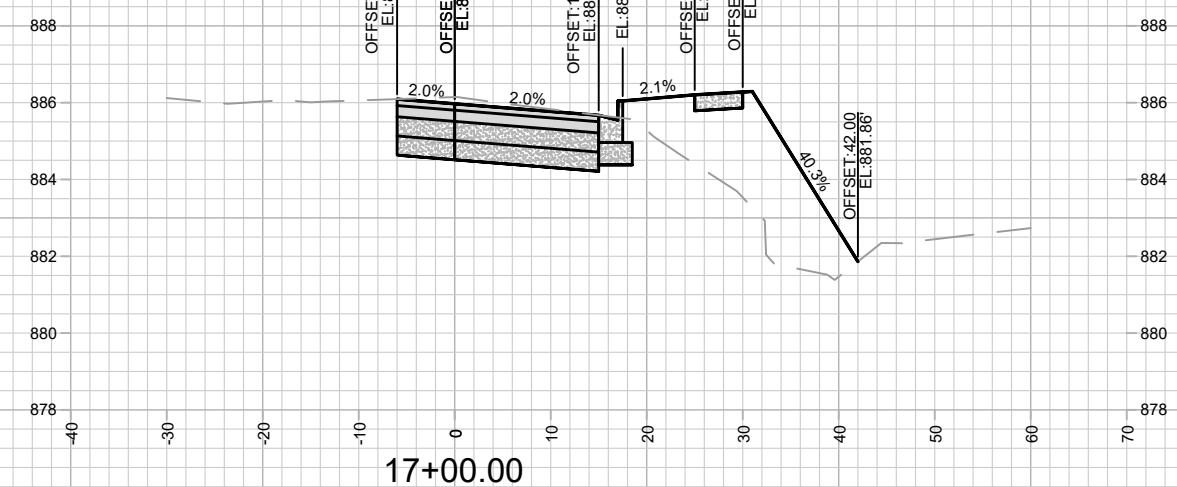
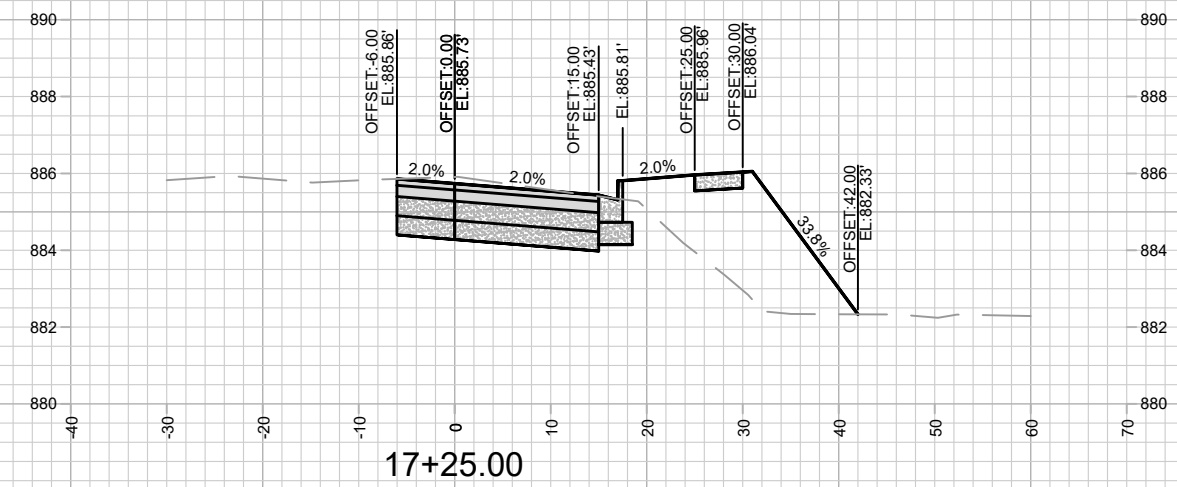
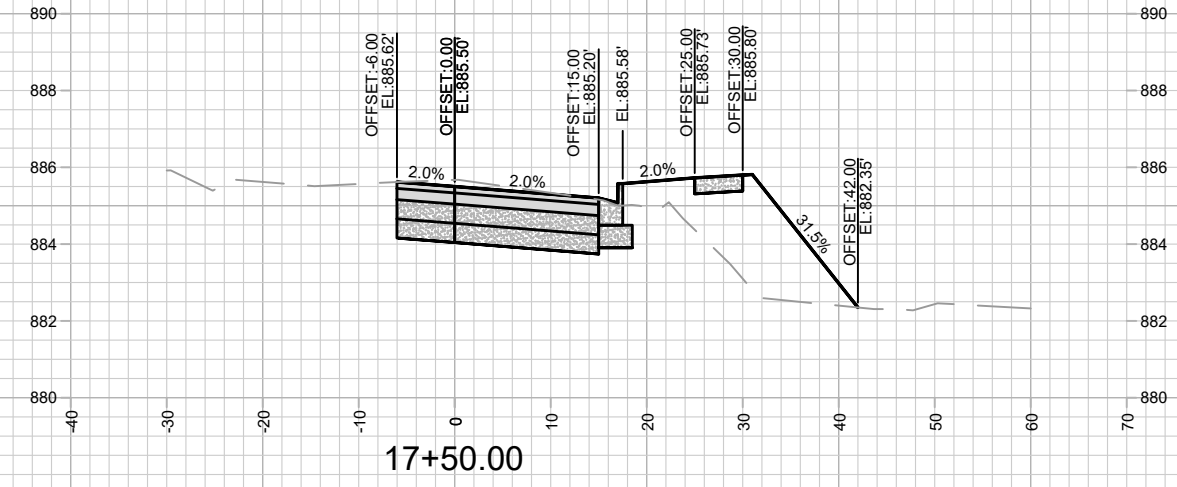
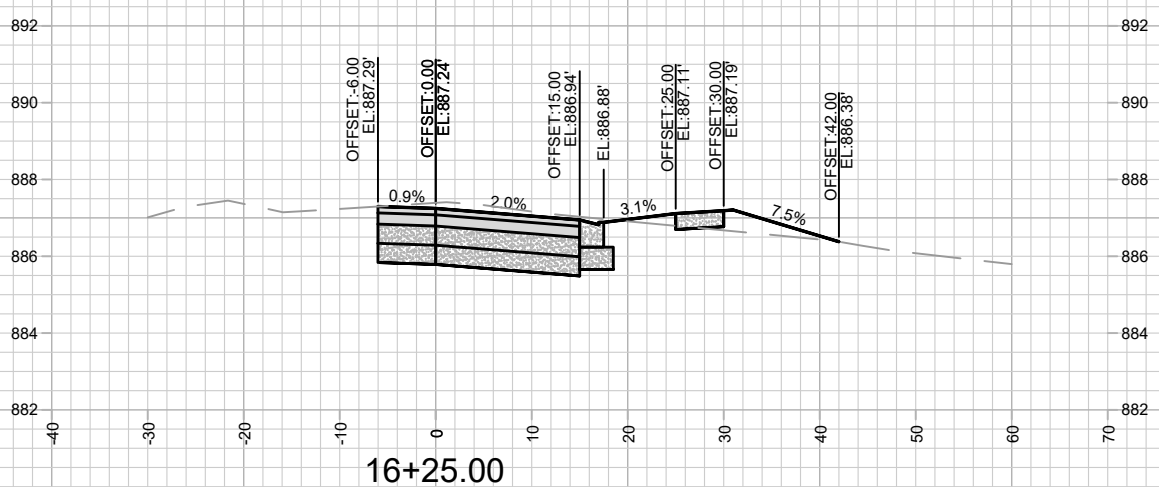
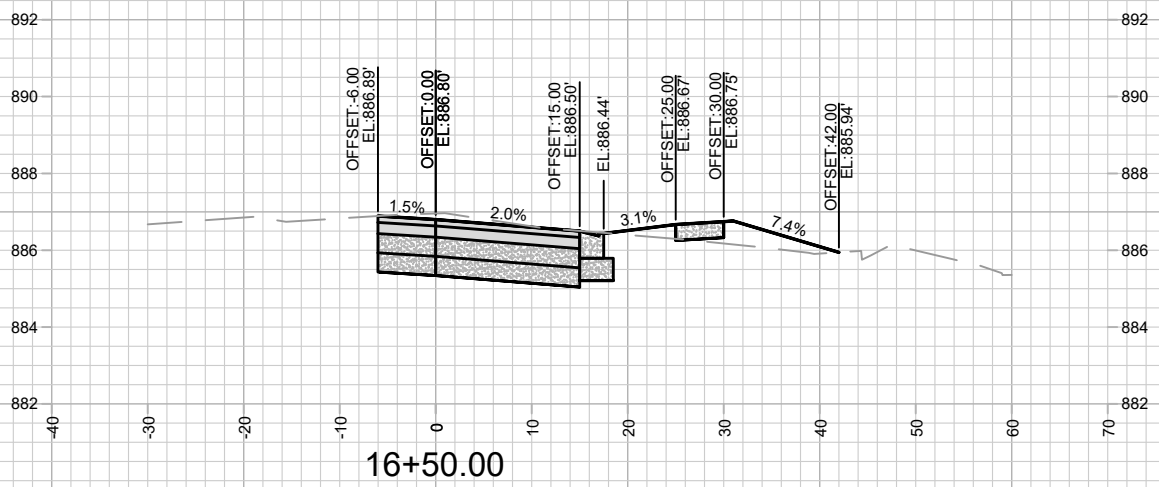
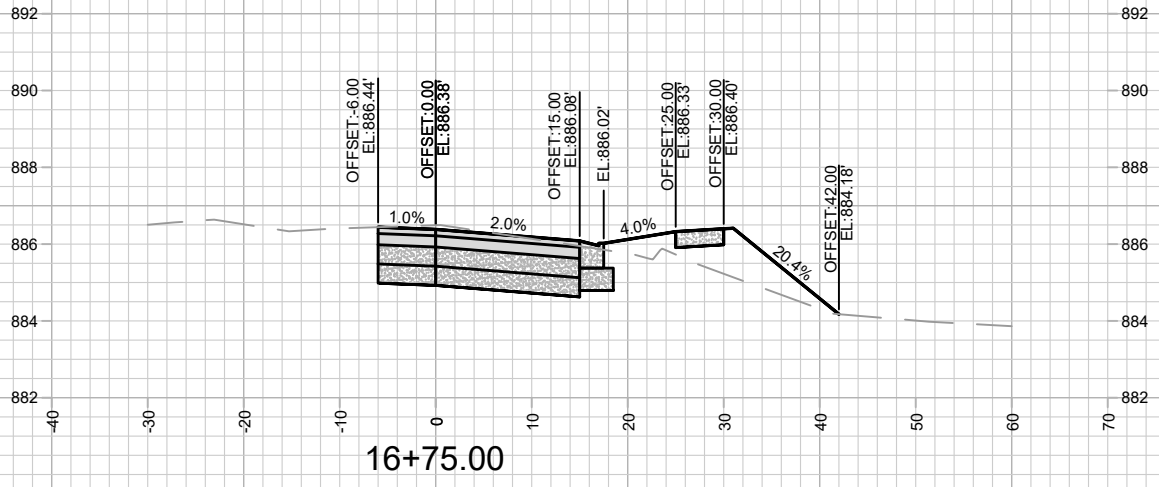
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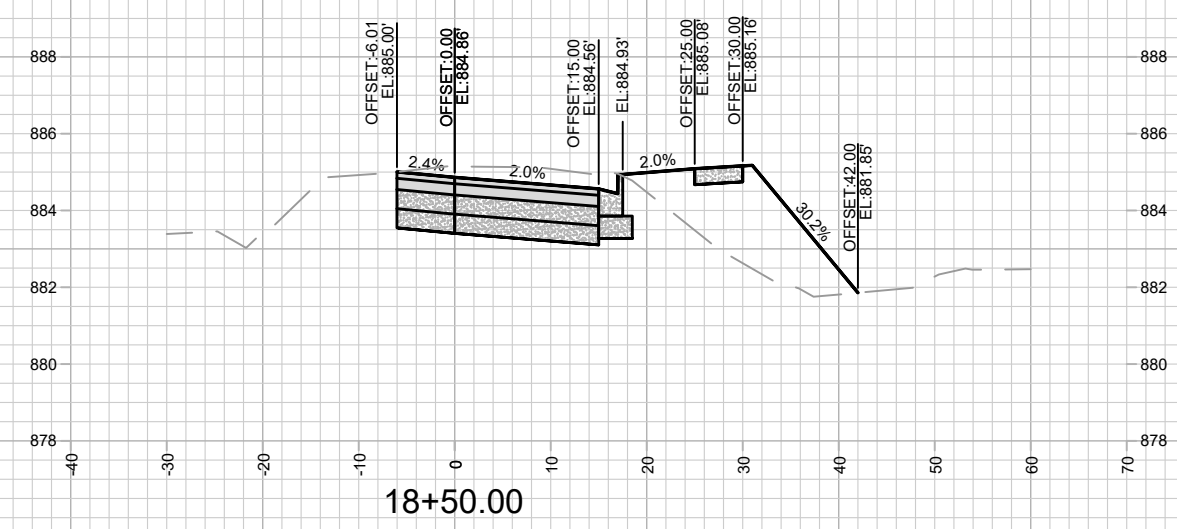
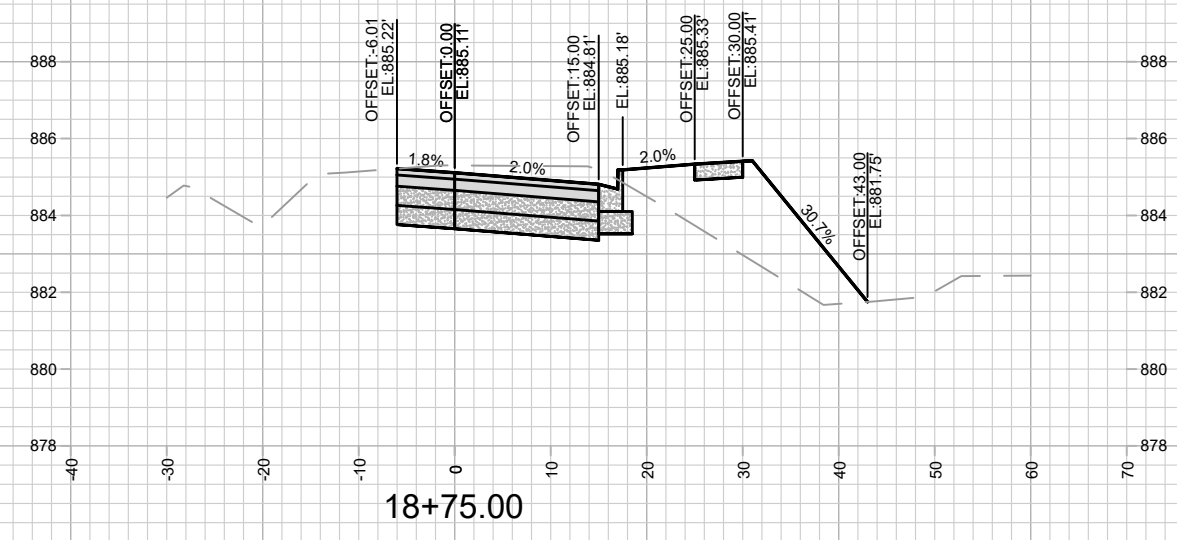
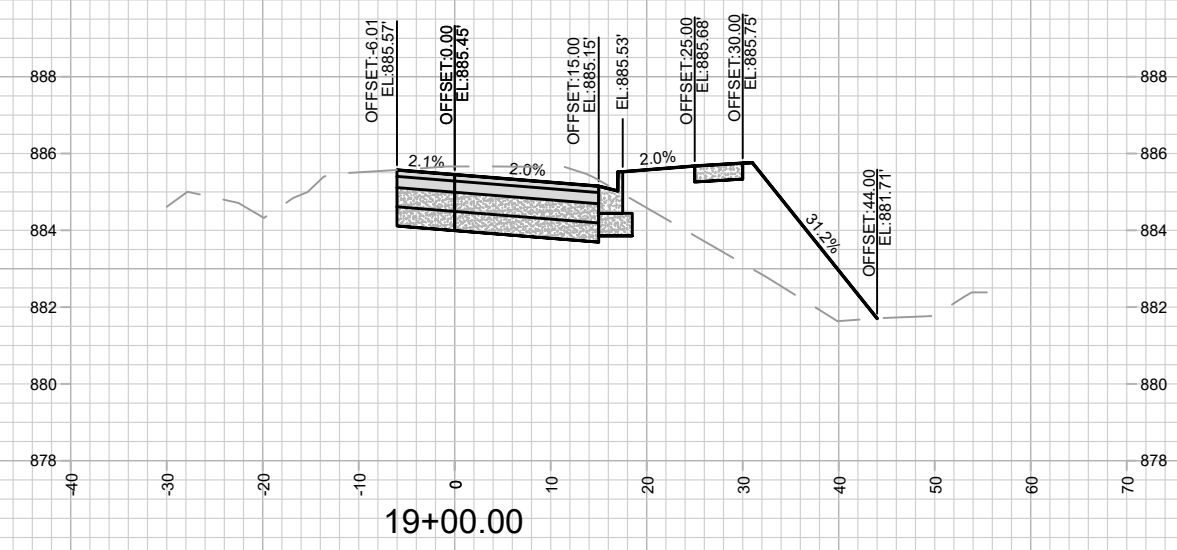
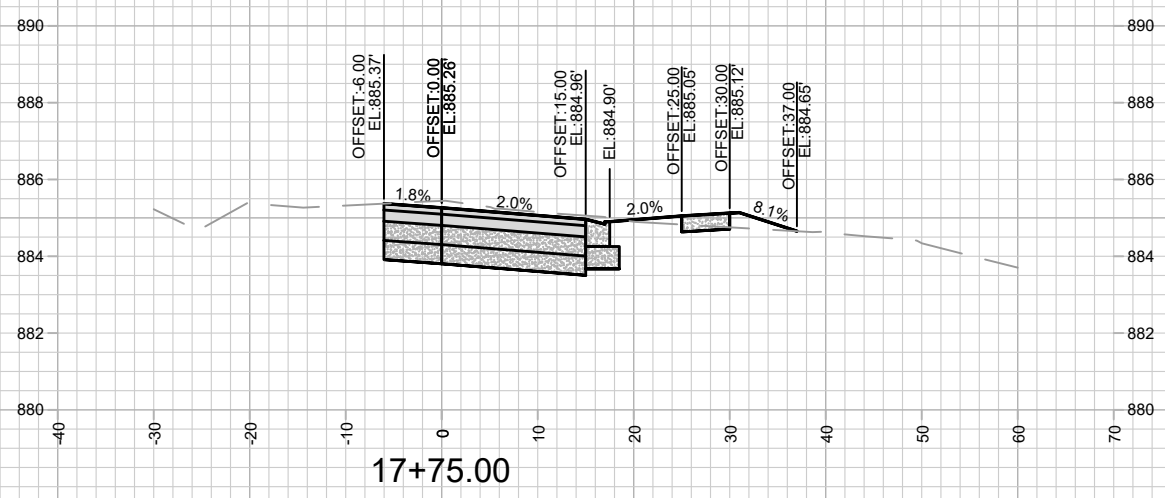
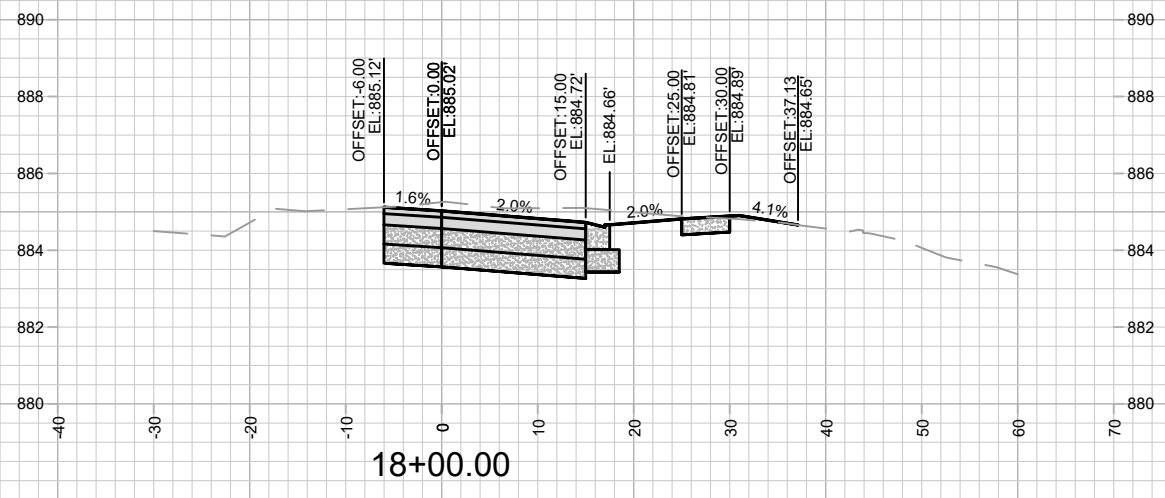
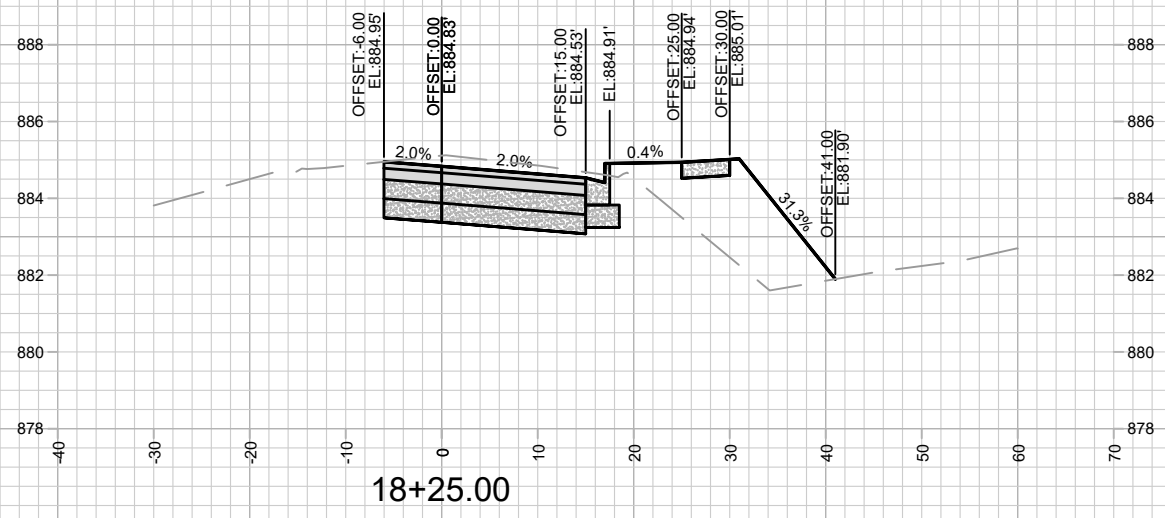
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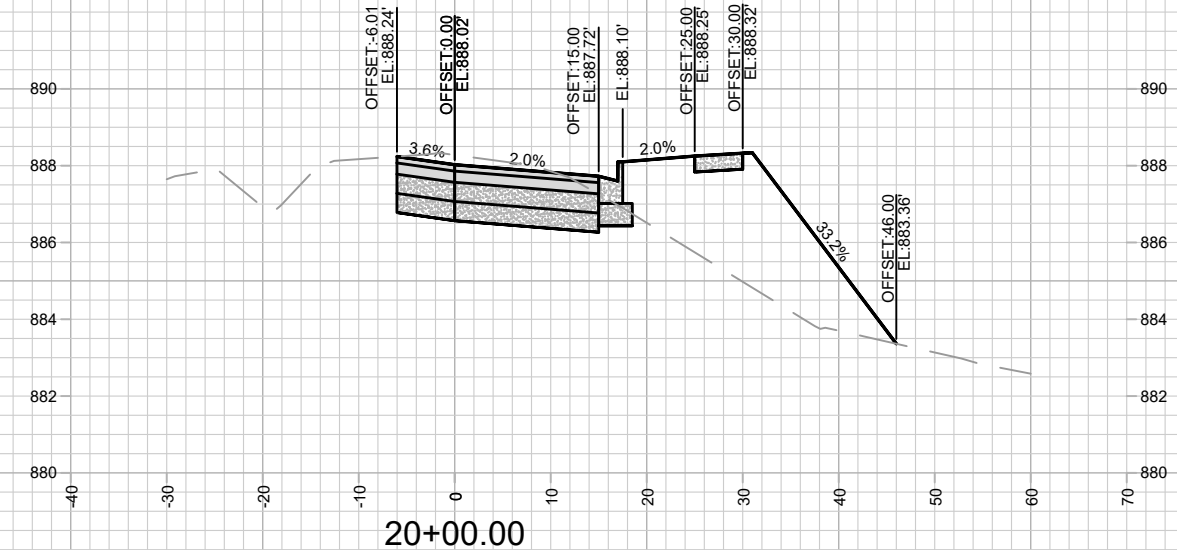
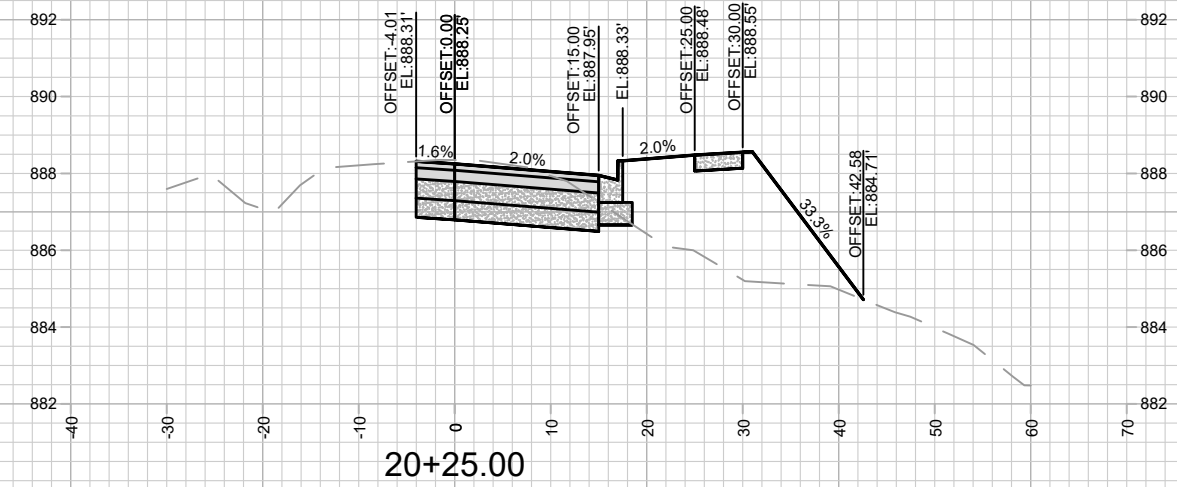
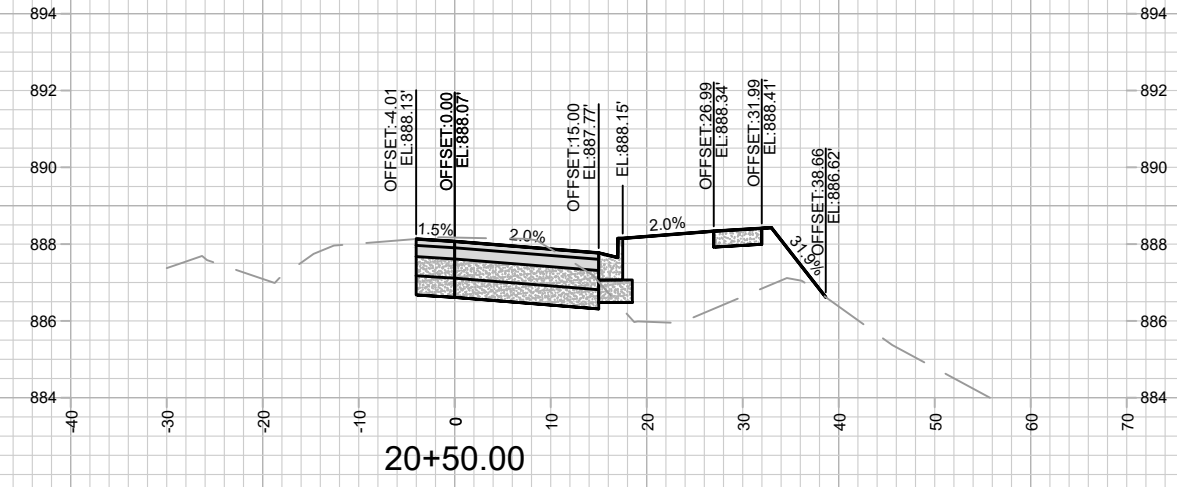
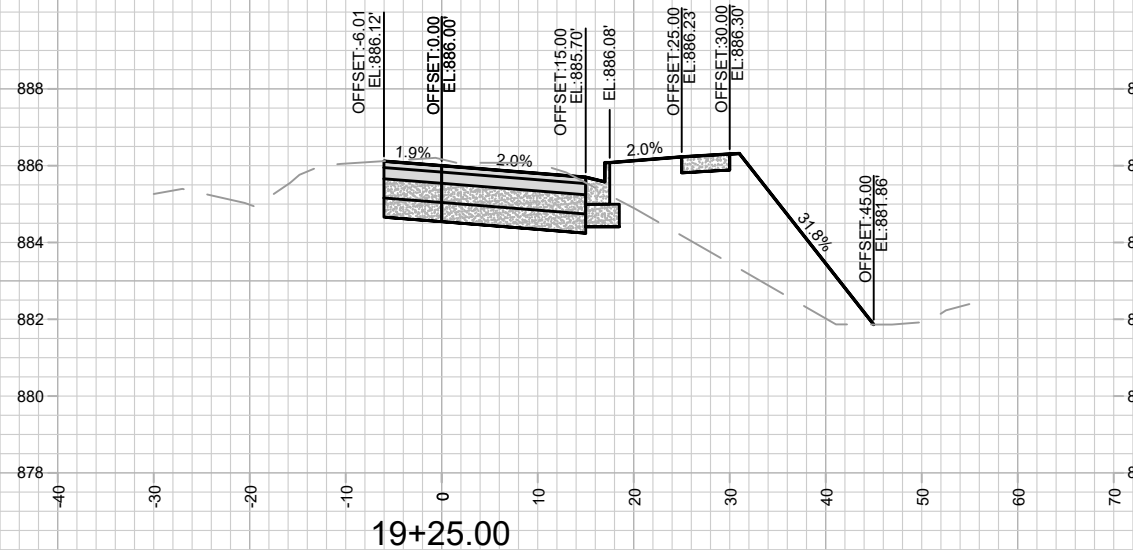
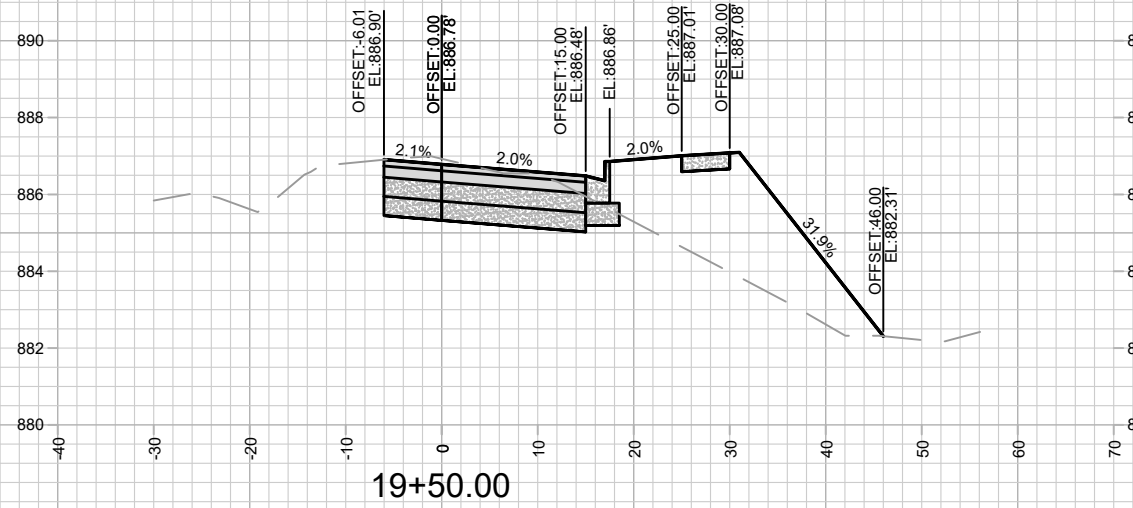
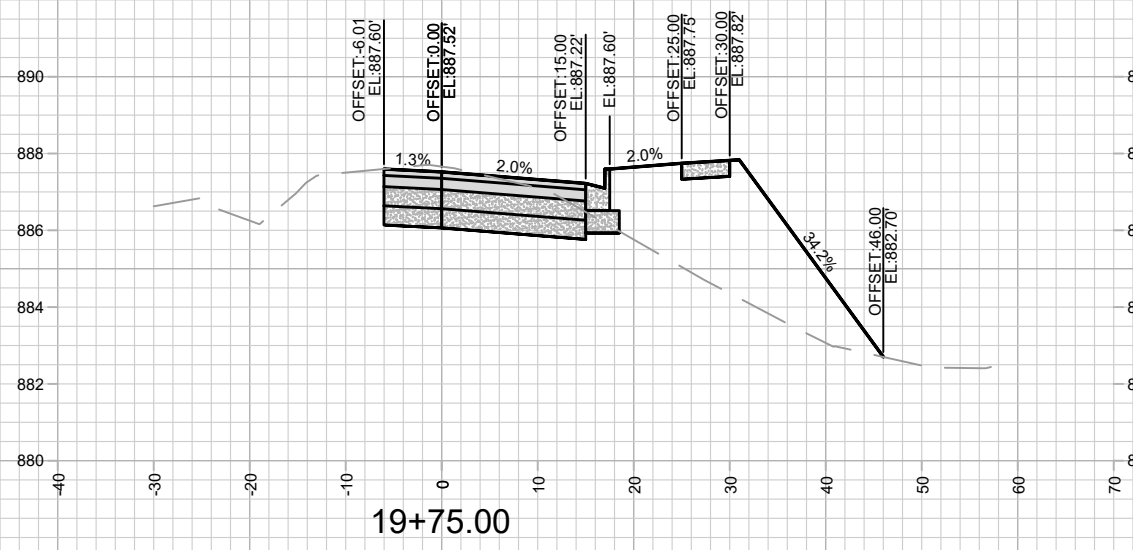
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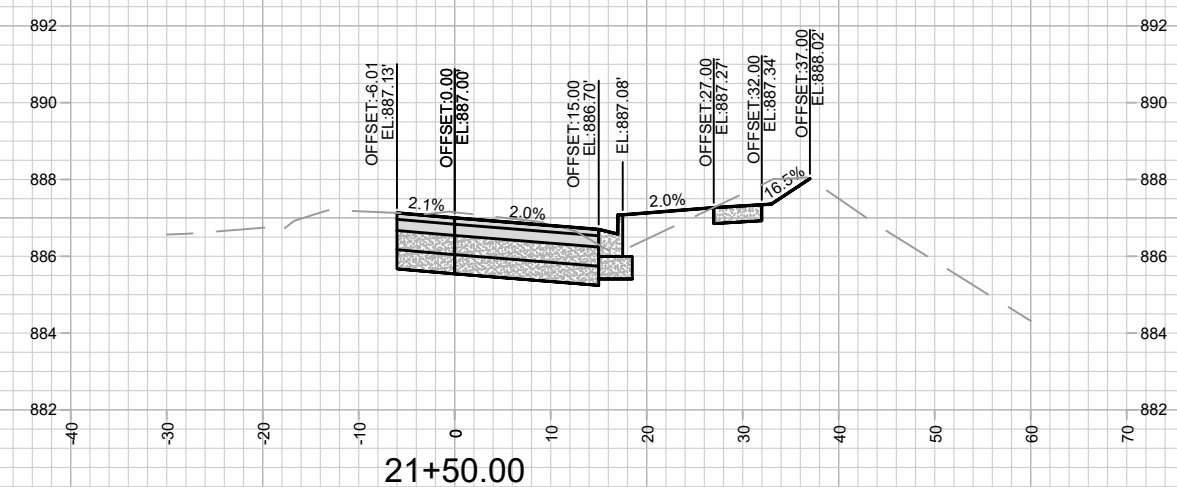
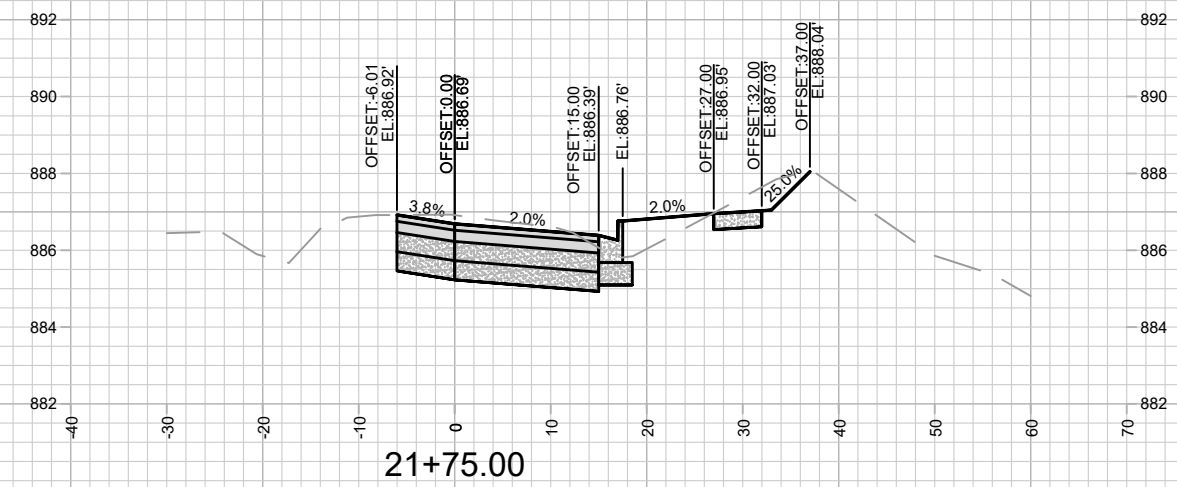
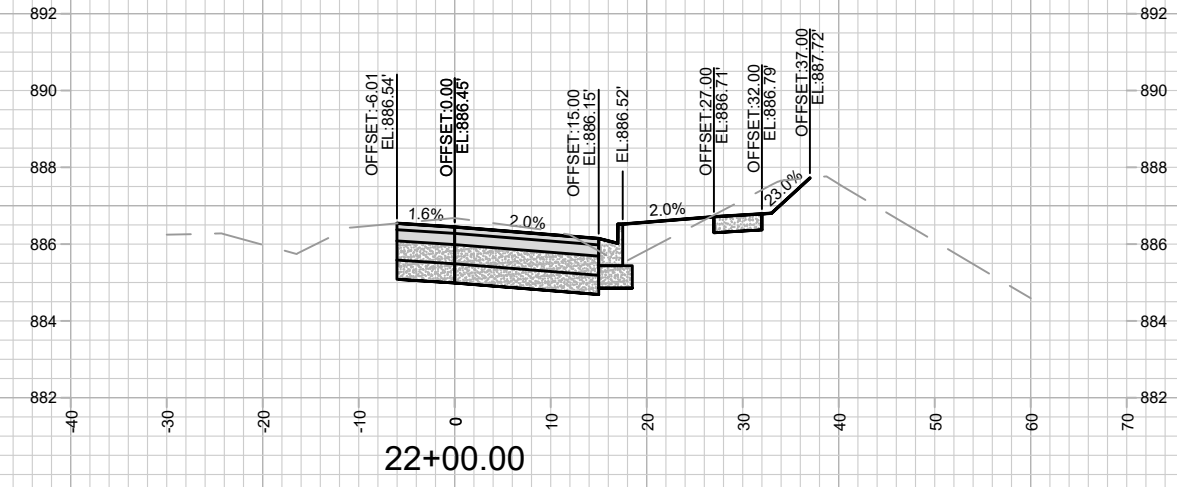
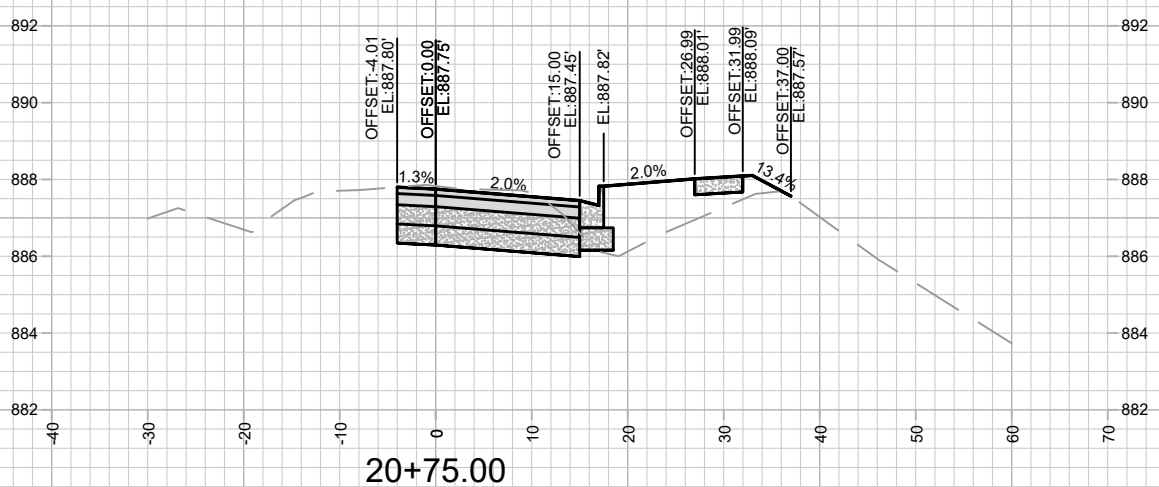
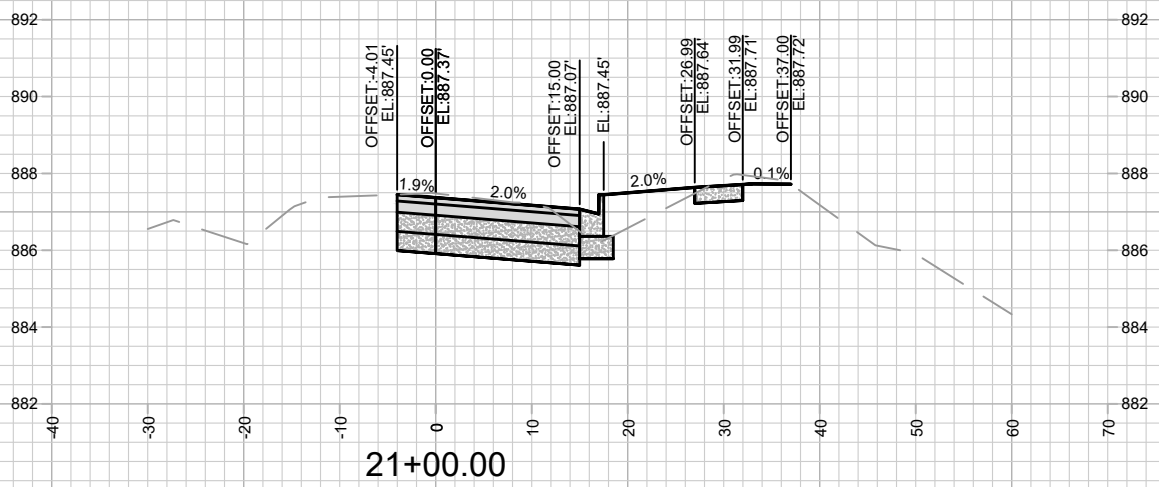
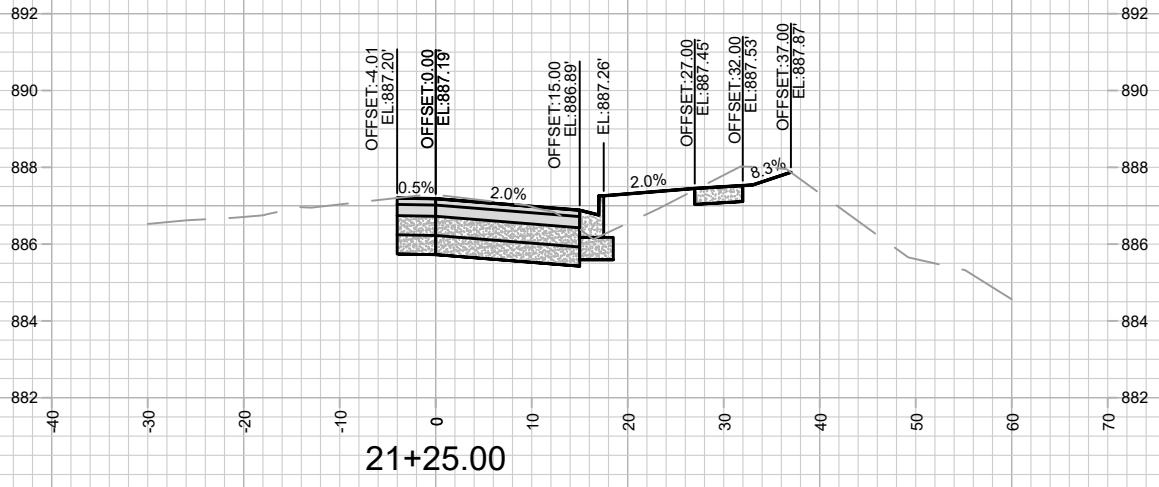
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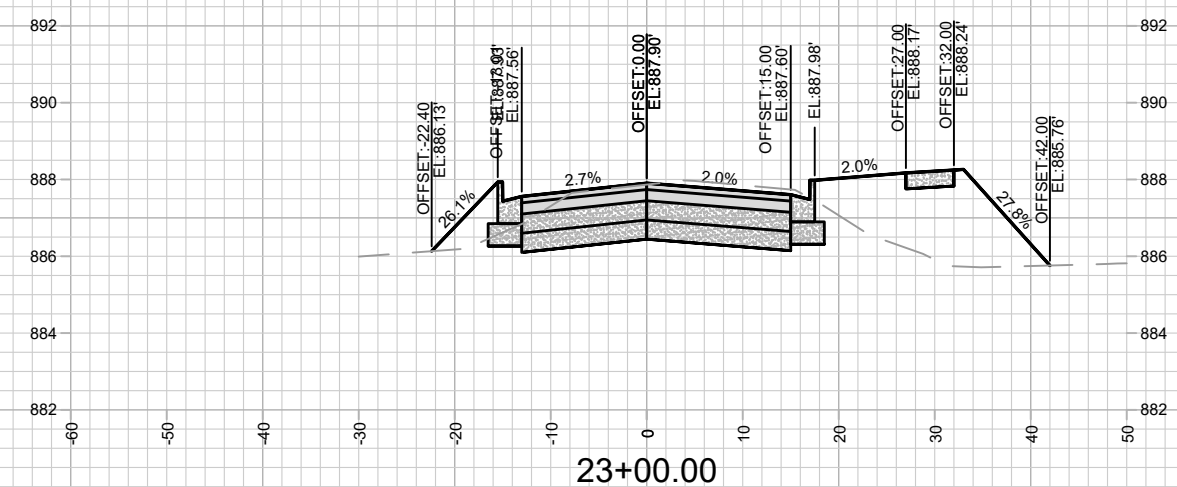
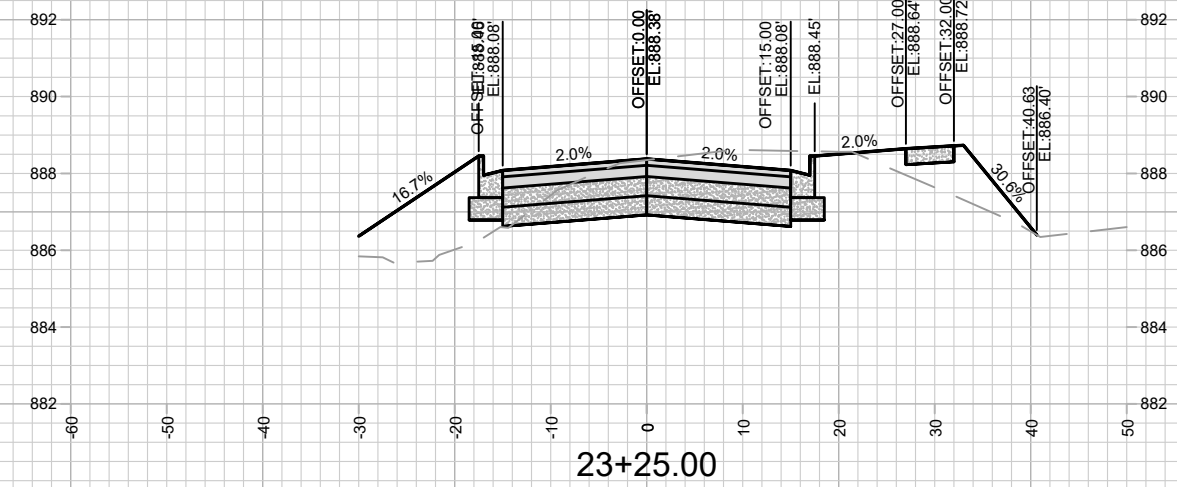
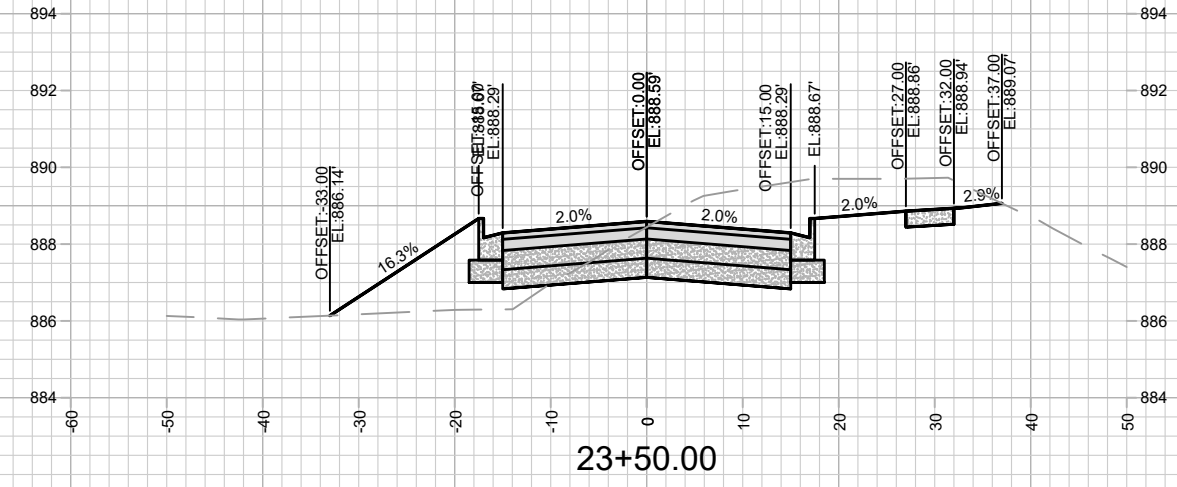
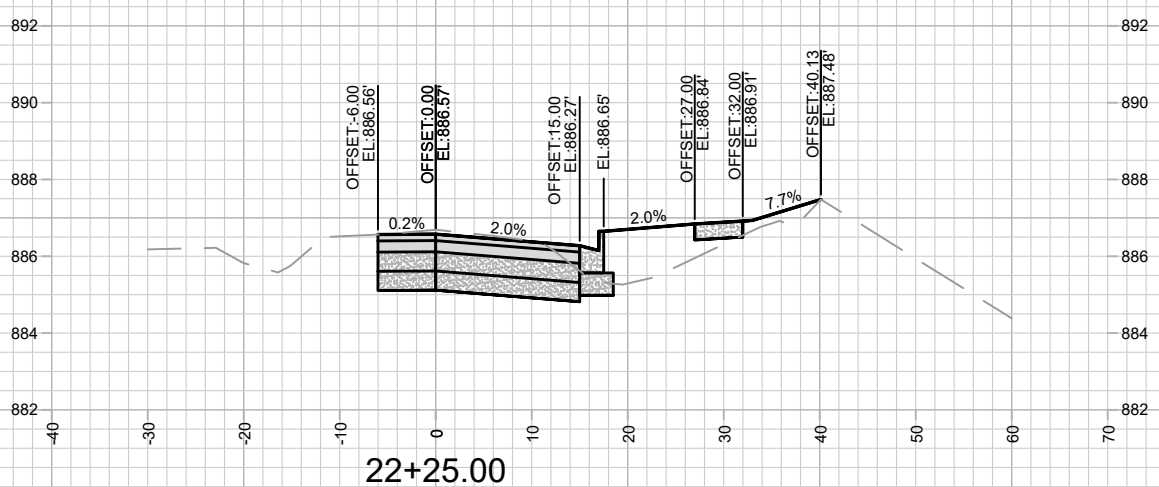
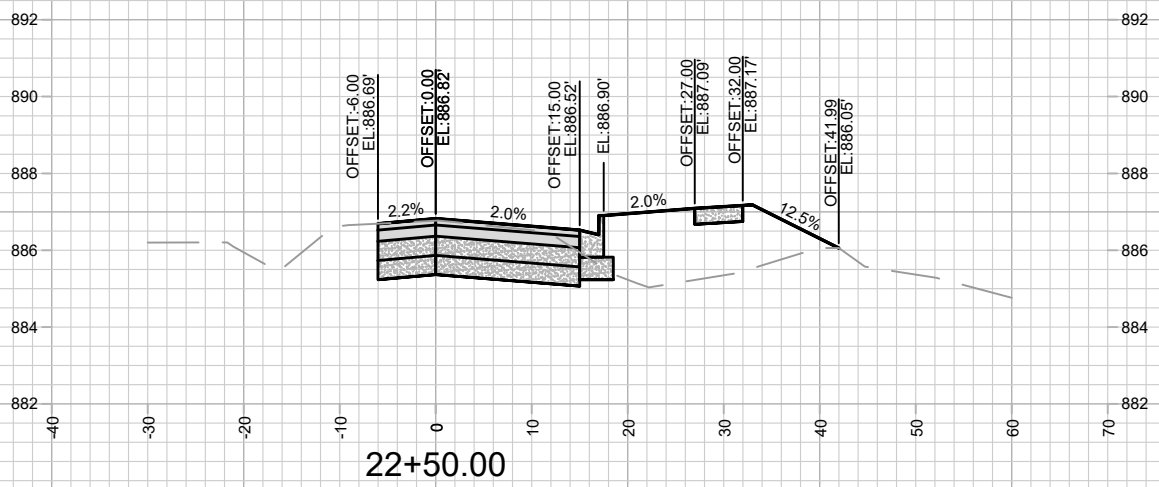
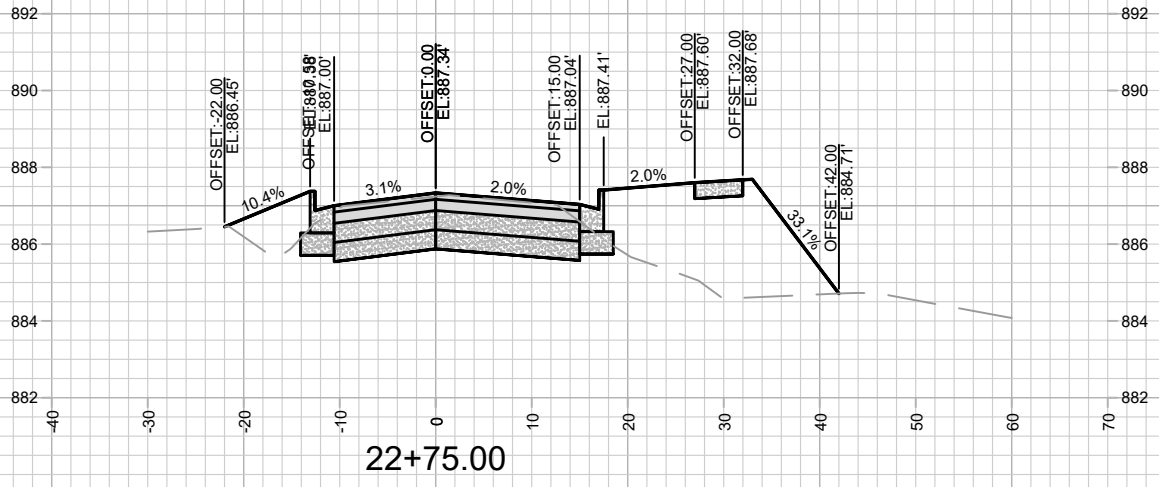
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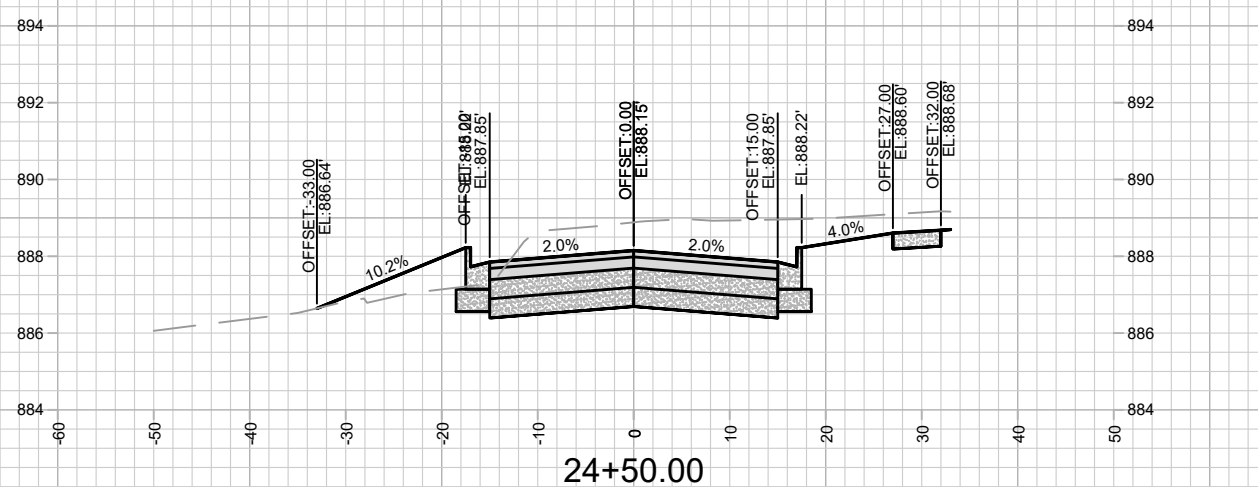
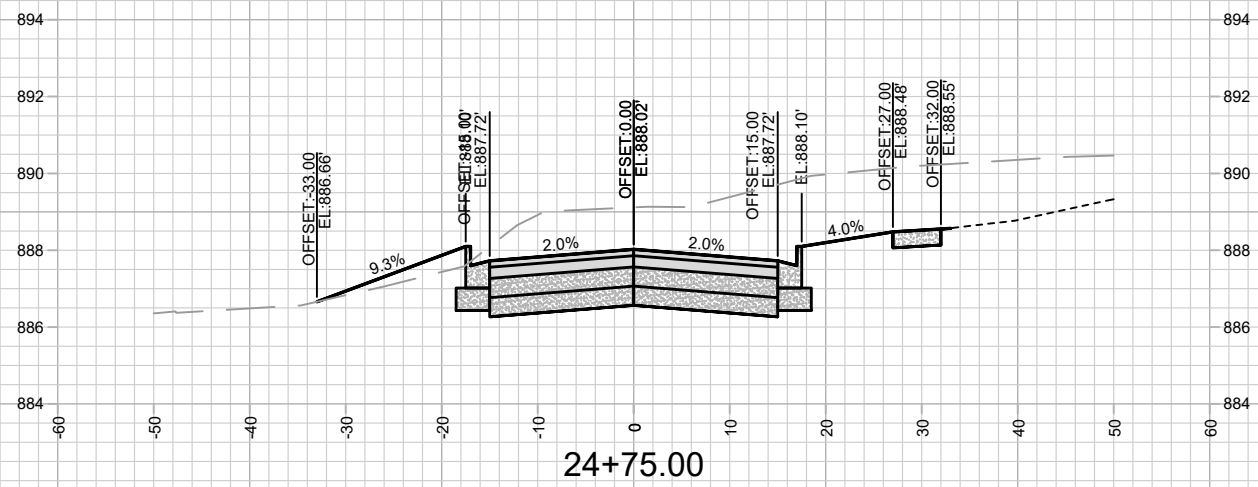
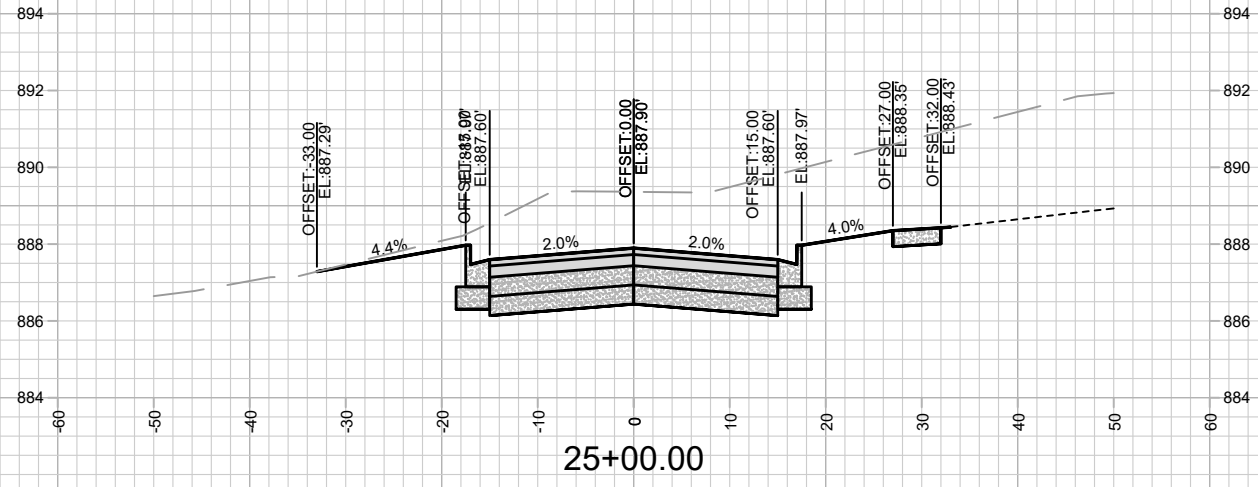
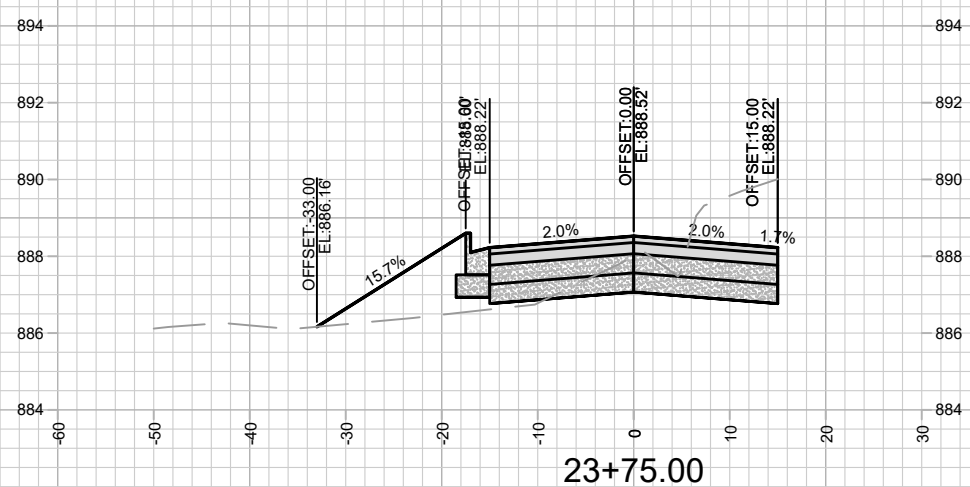
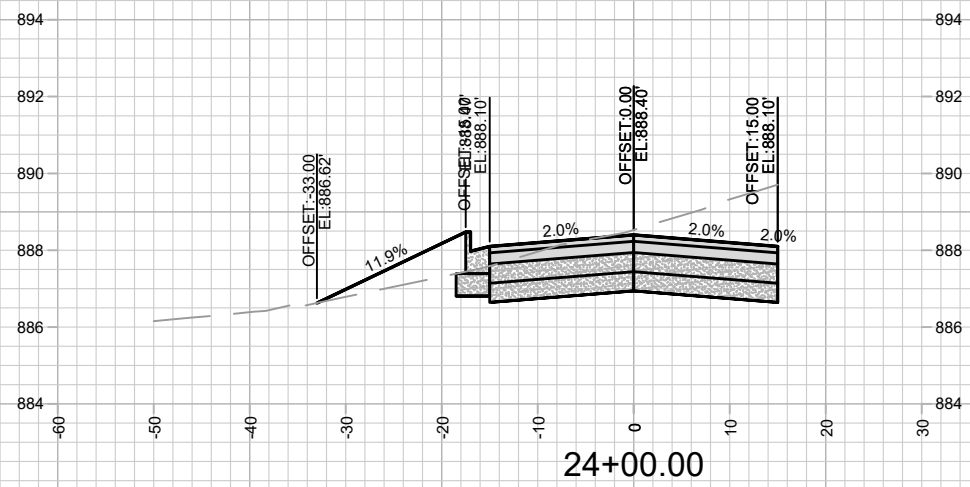
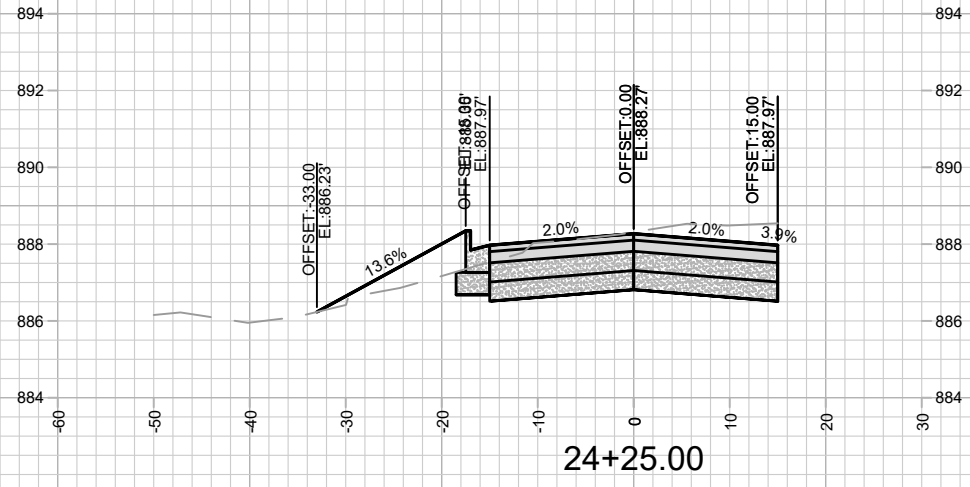
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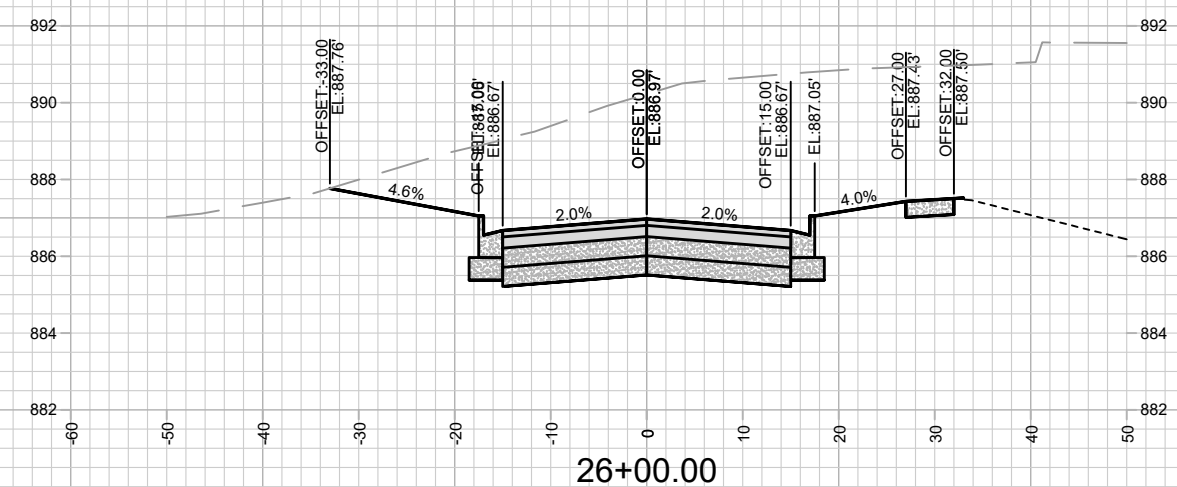
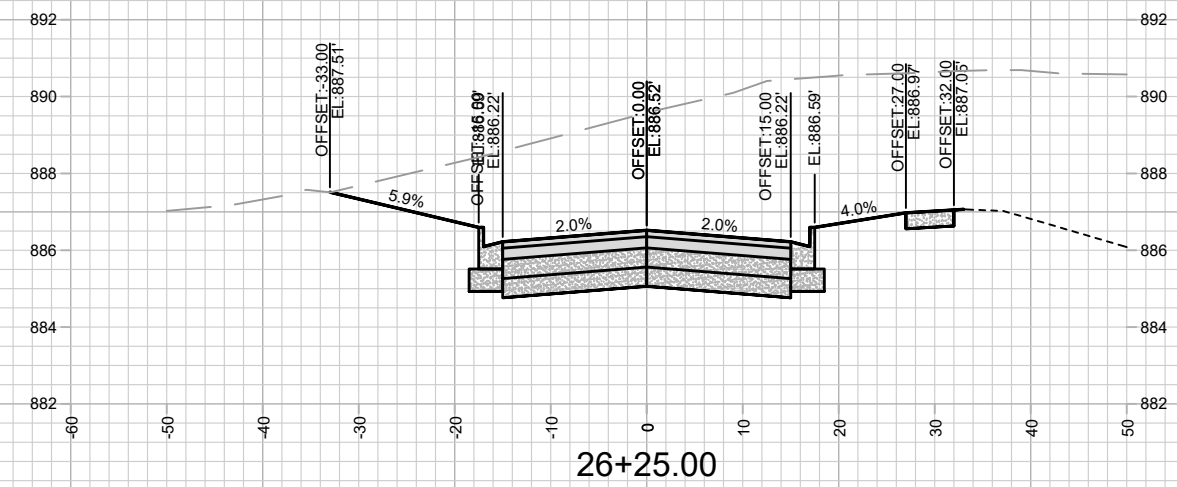
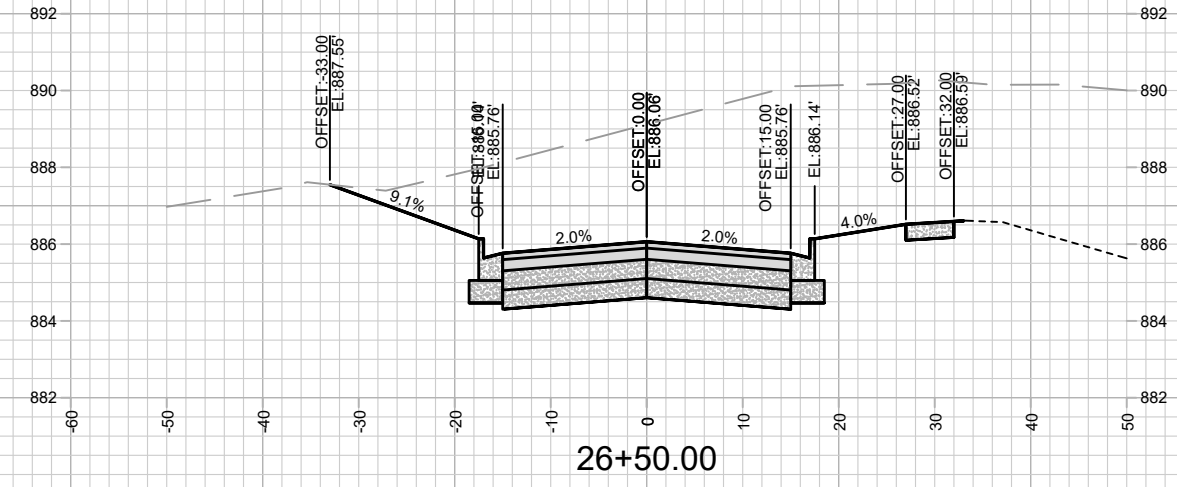
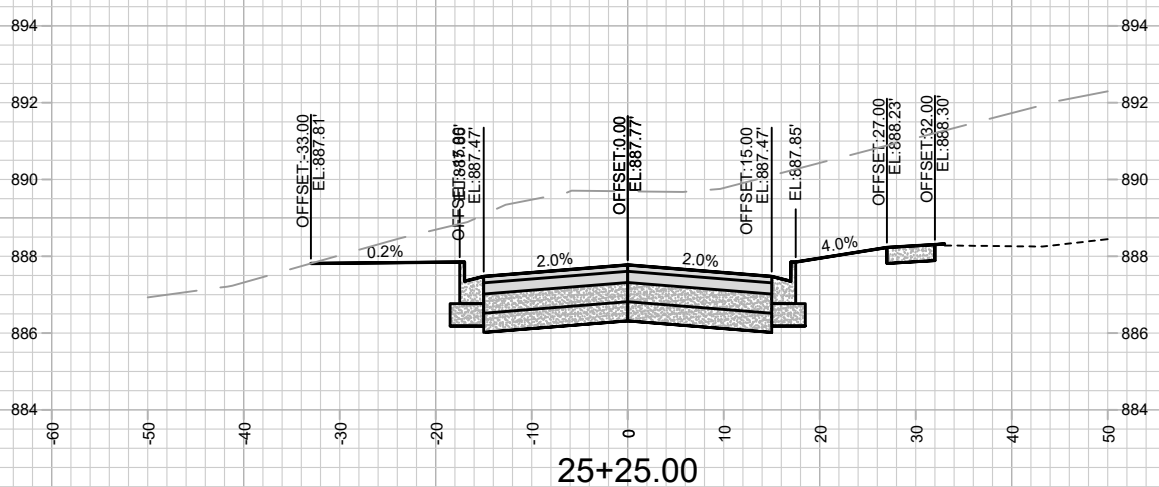
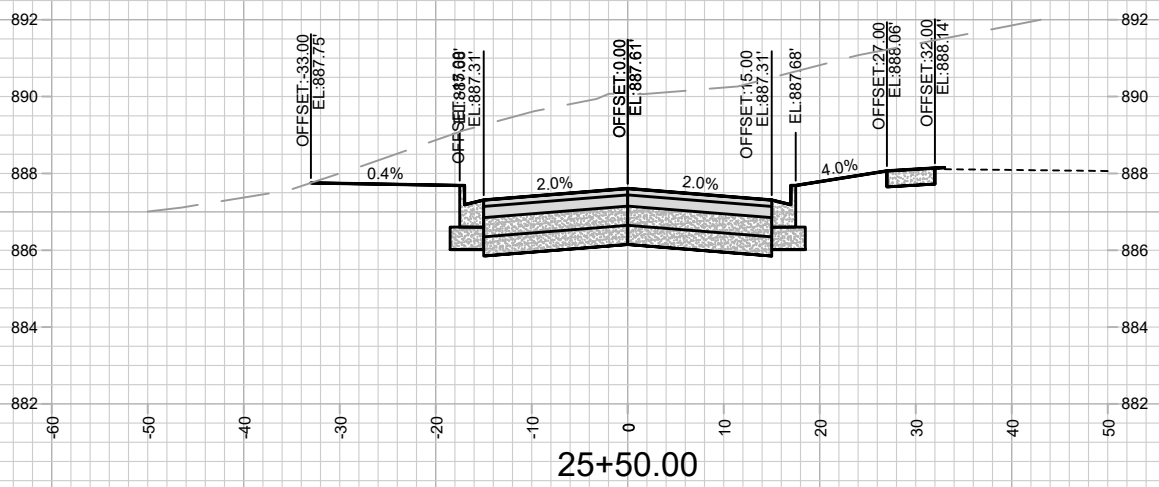
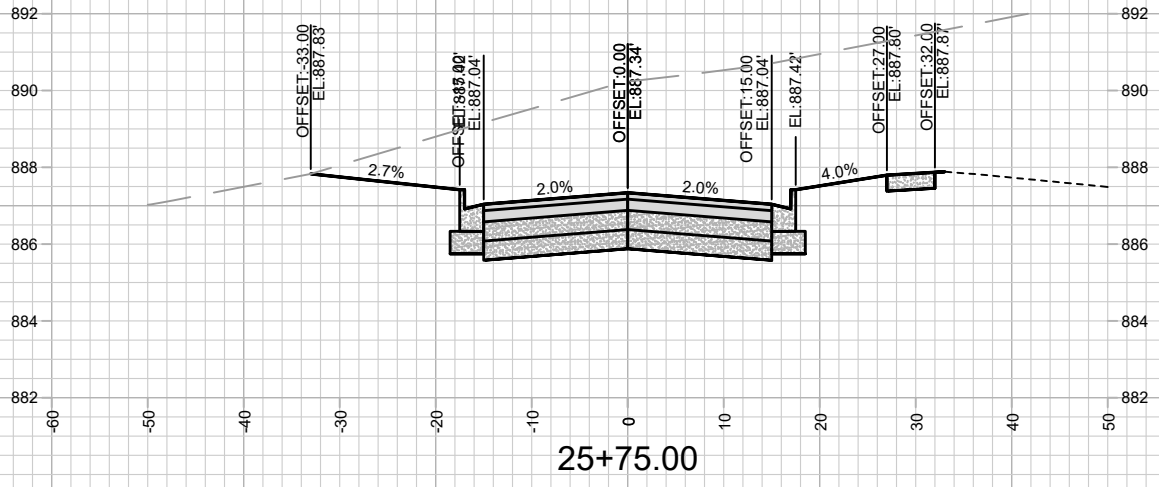
14950
MADISON, WI
9481
CONTRACT NO:

CROSS SECTIONS - LUDS LN
LUDS LANE AND FEMRITE DRIVE CSM
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Scale: 1" = 20'



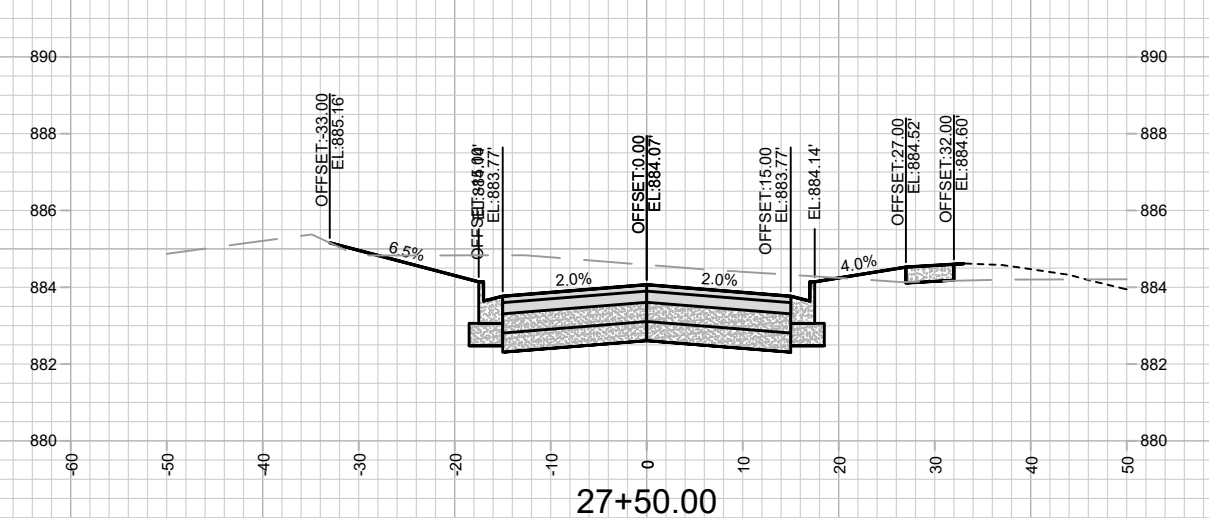
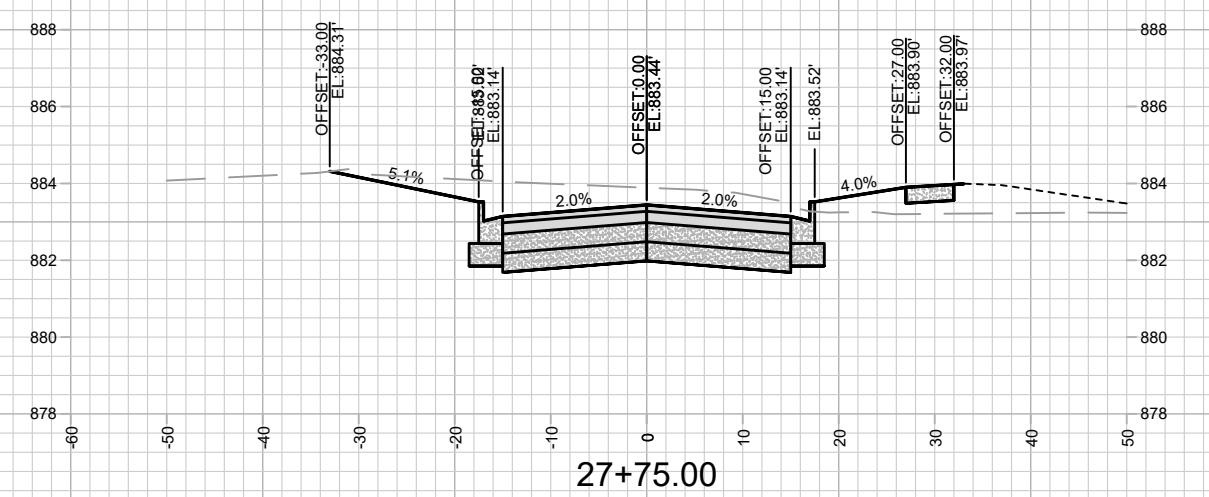
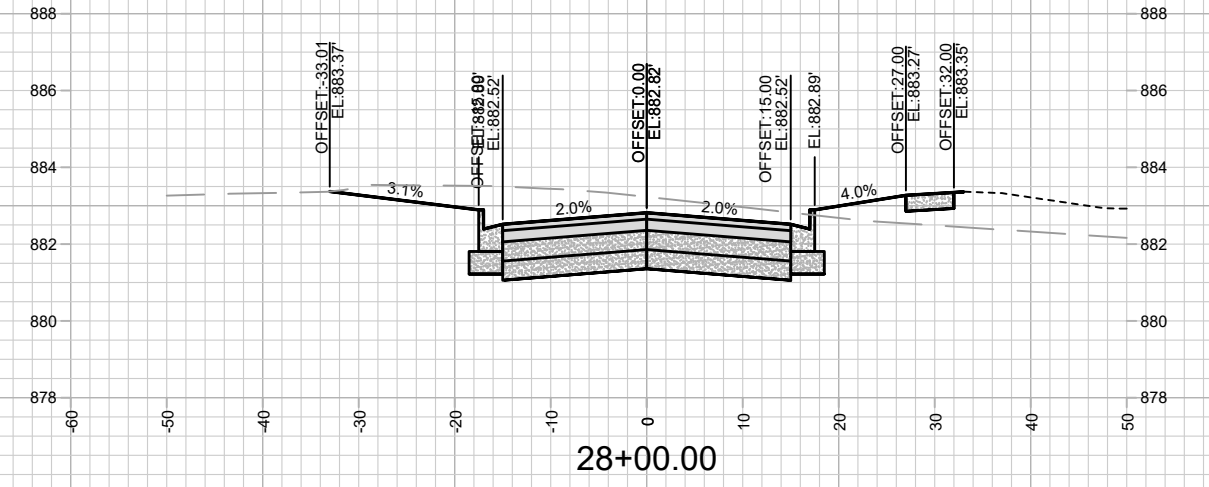
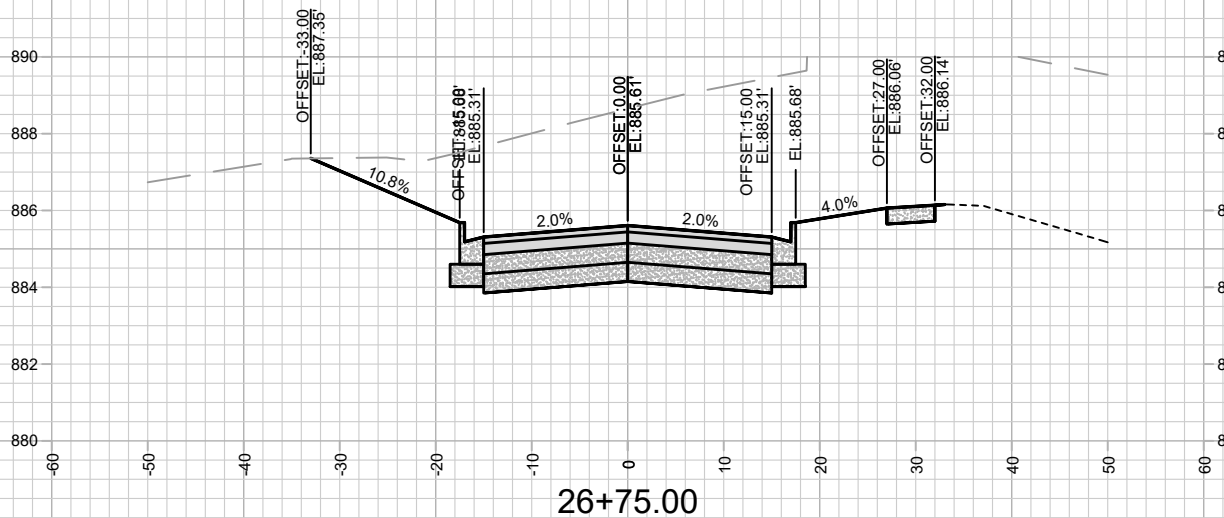
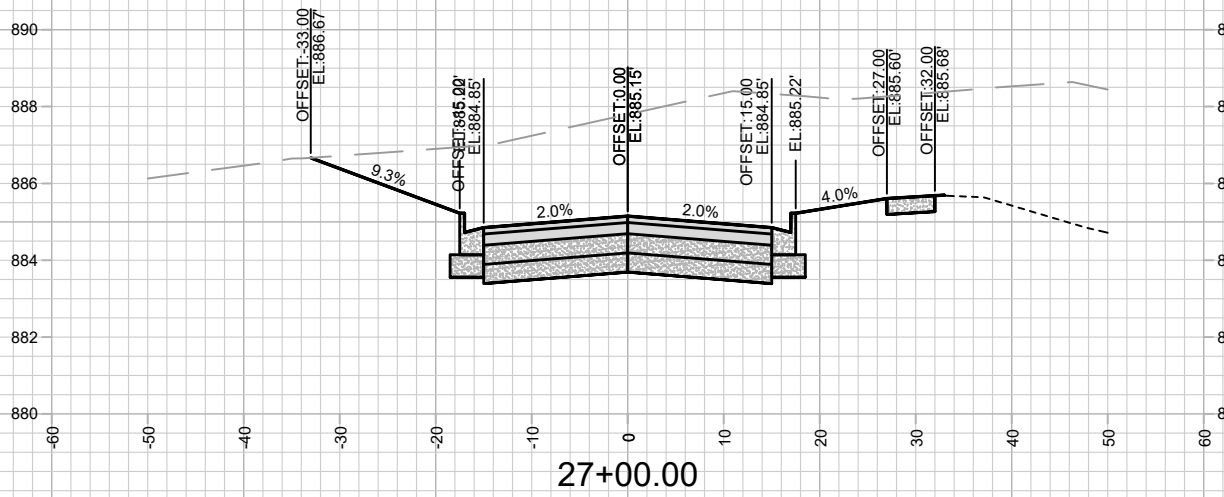
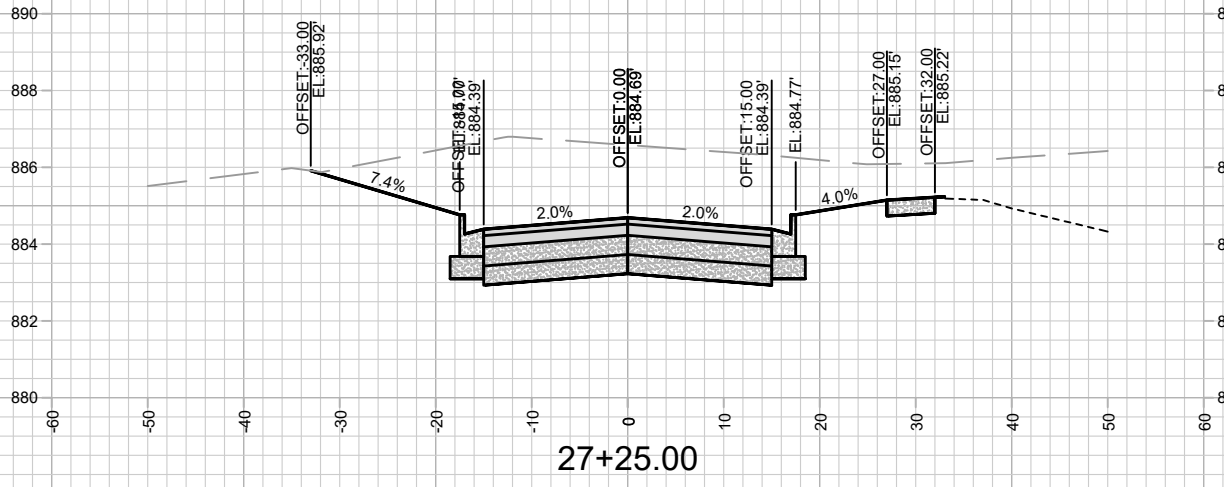
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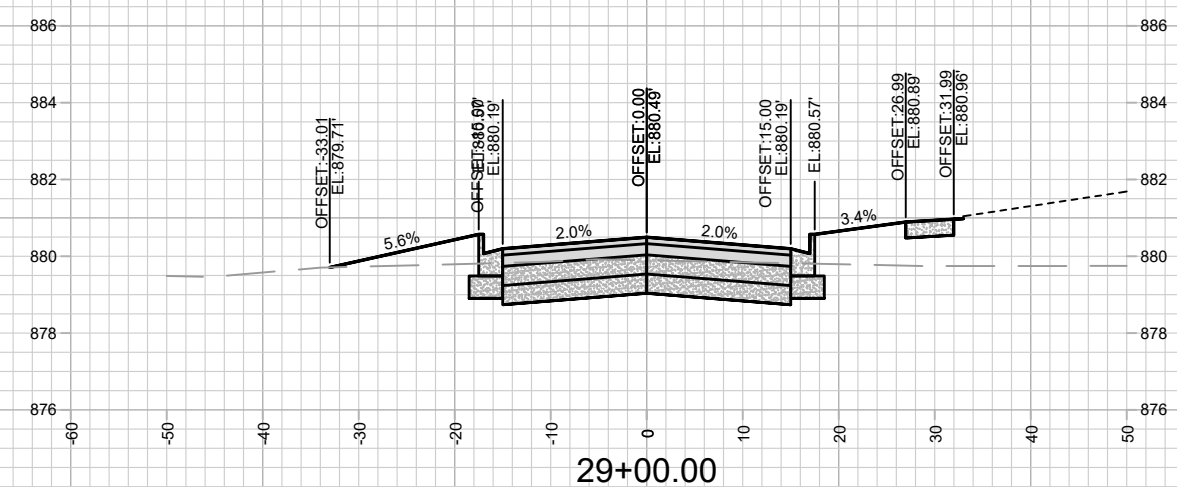
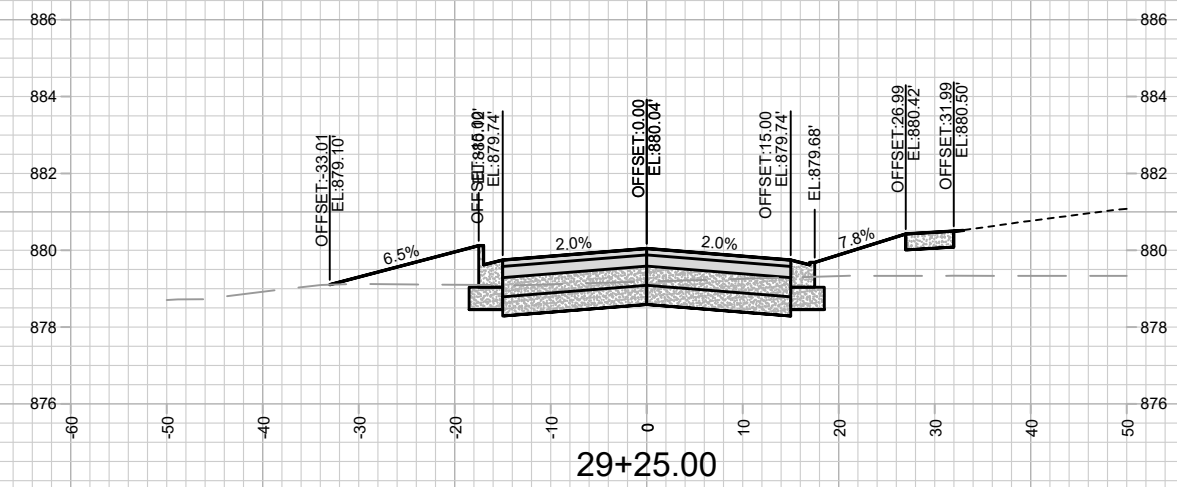
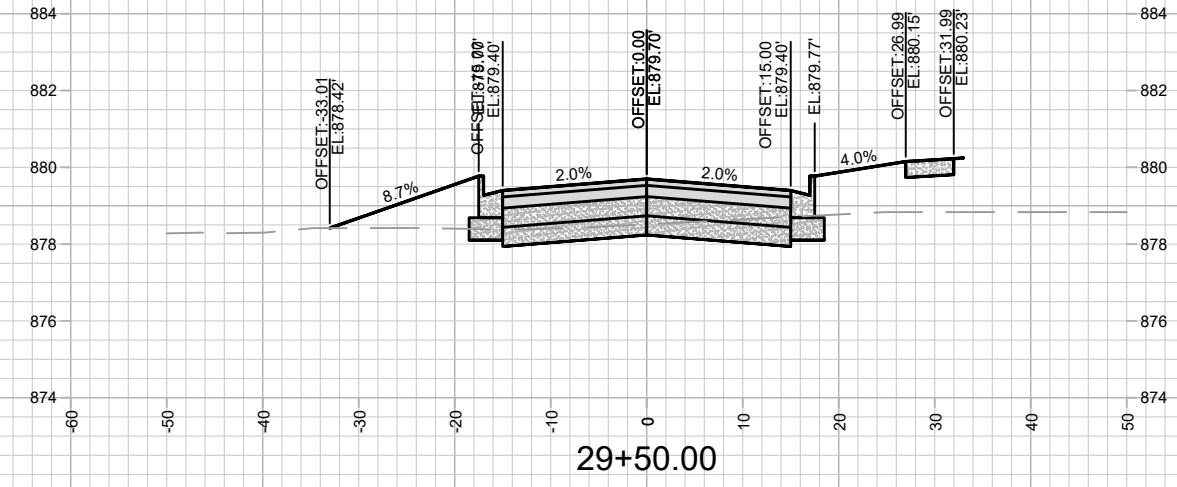
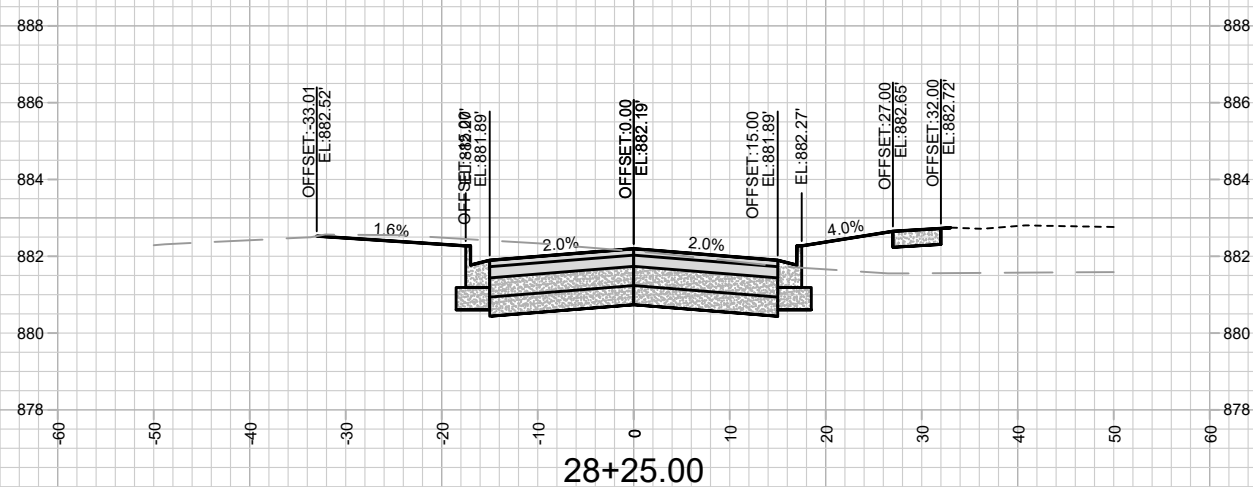
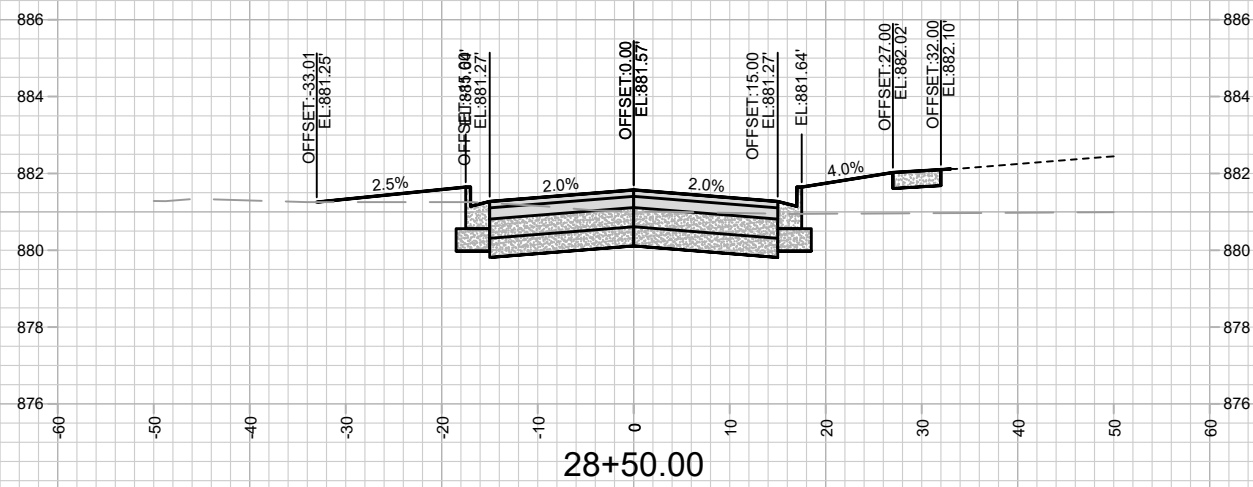
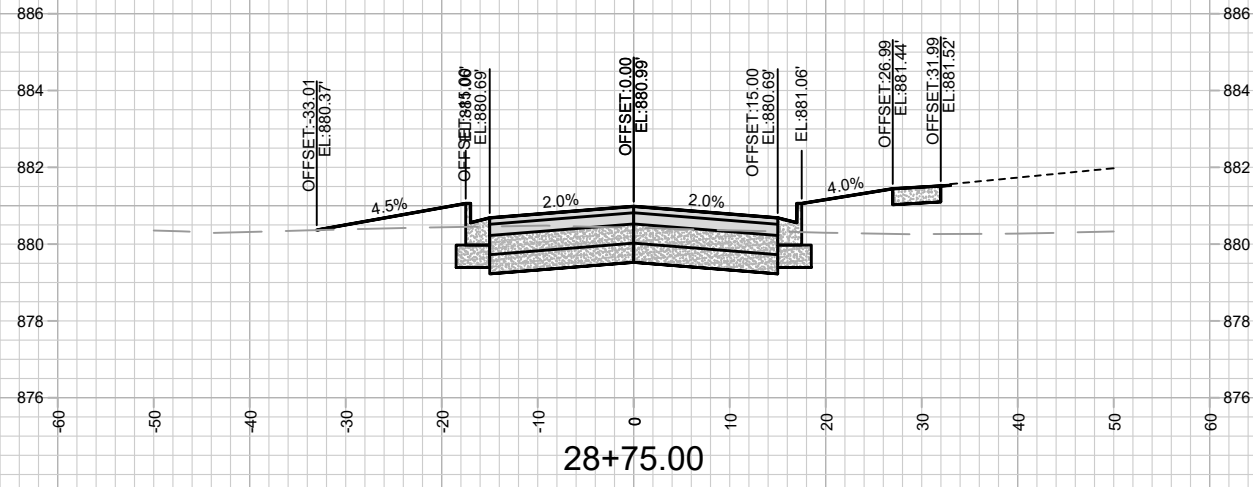
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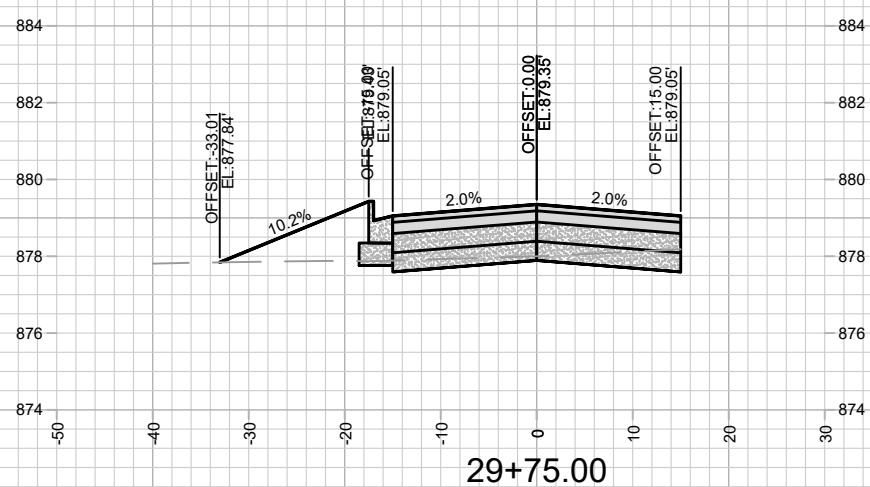
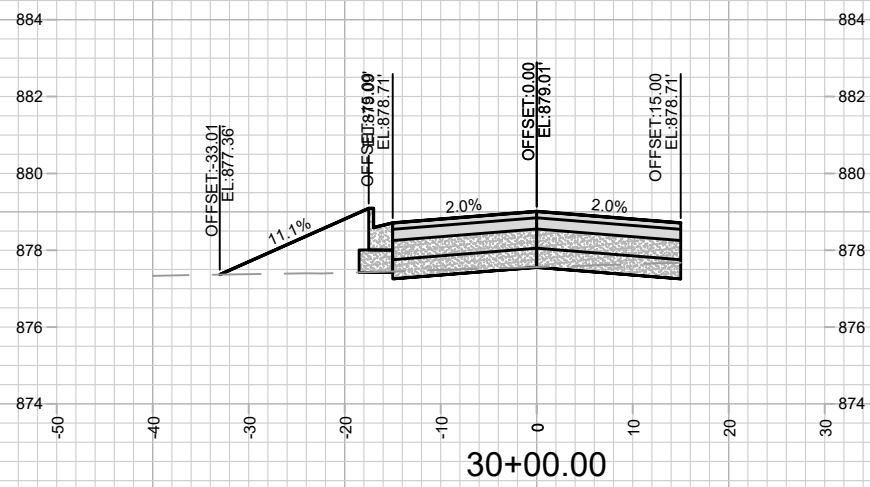
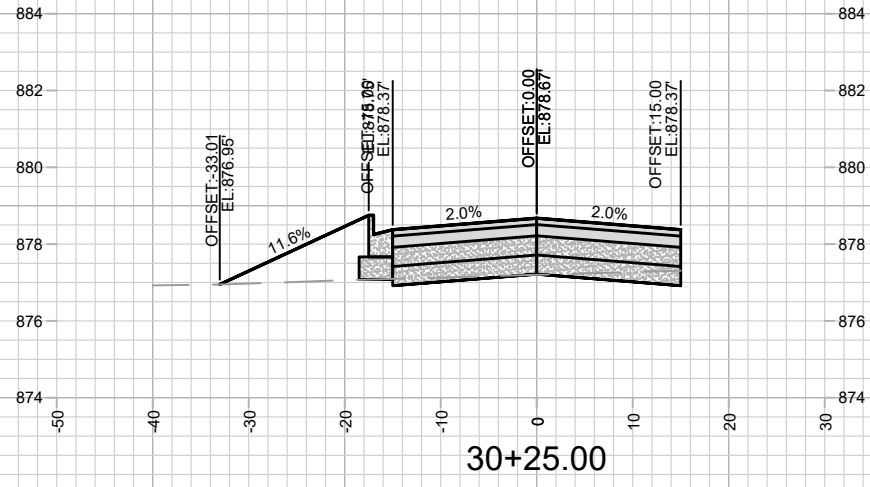
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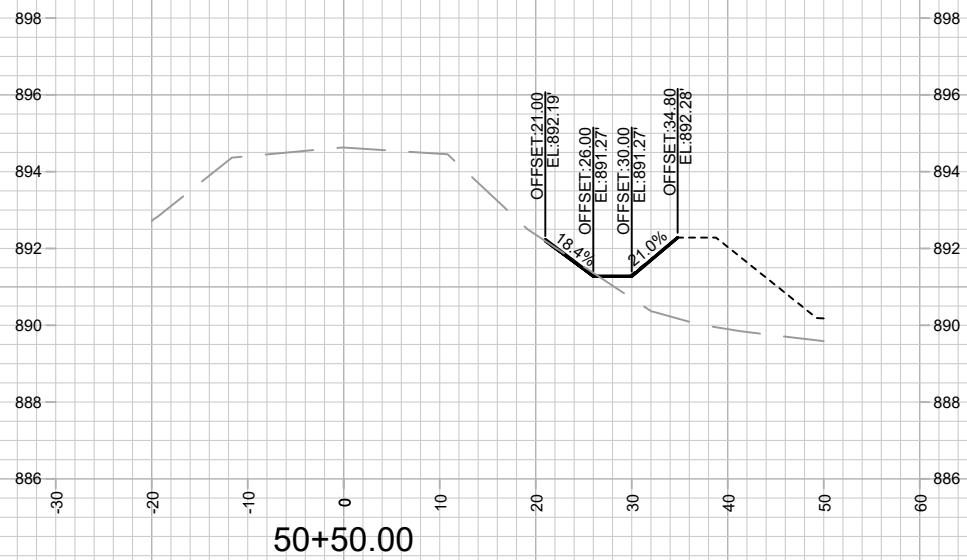
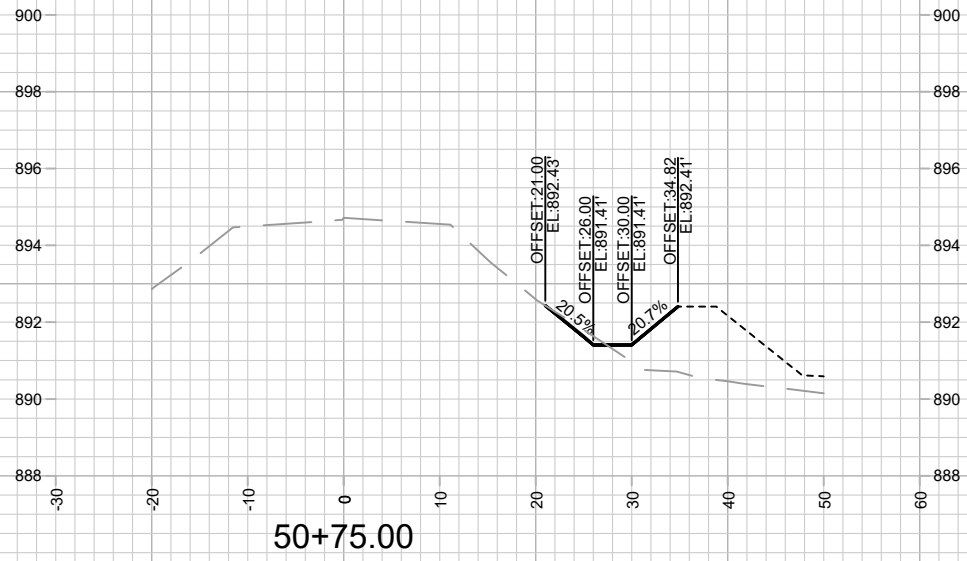
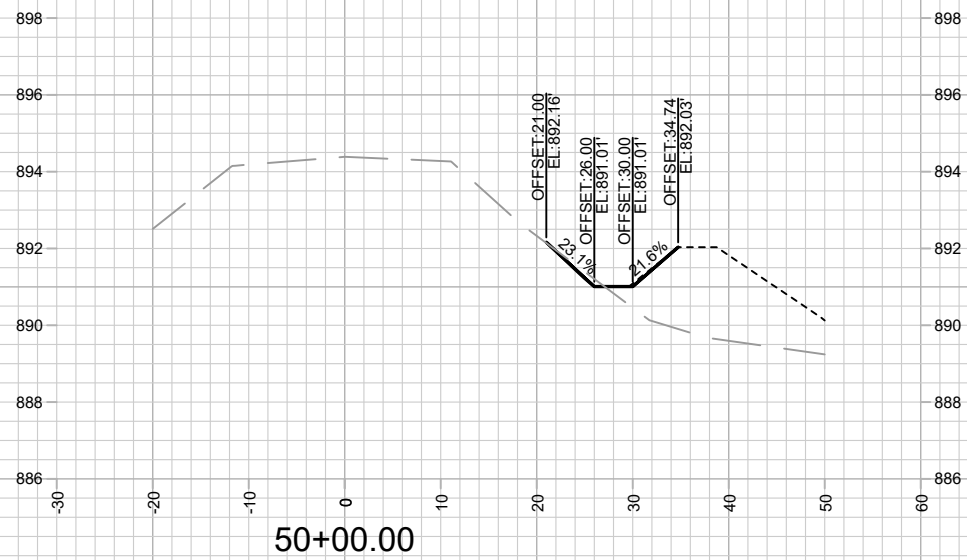
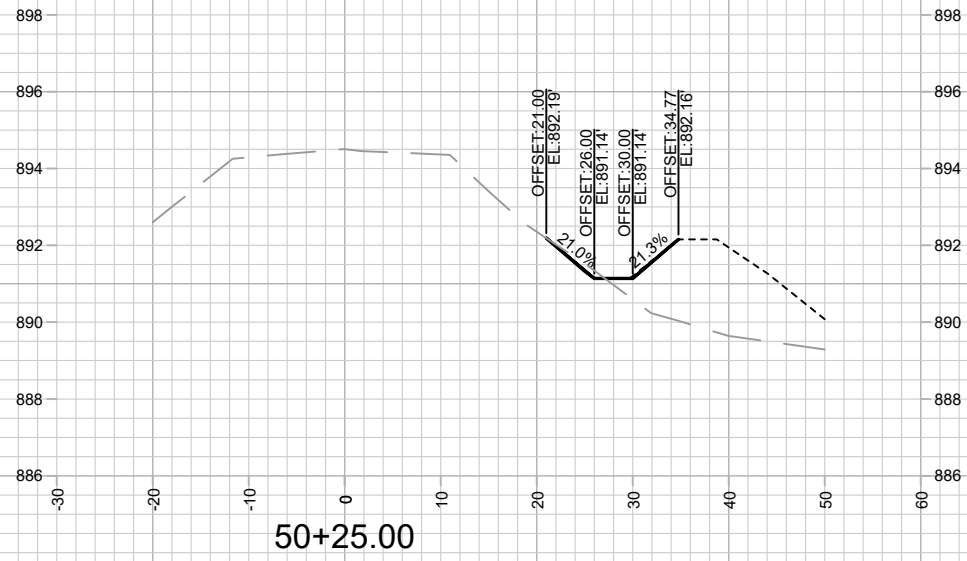
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CROSS SECTIONS - LUDS LN
LUDS LANE AND FEMRITE DRIVE CSM

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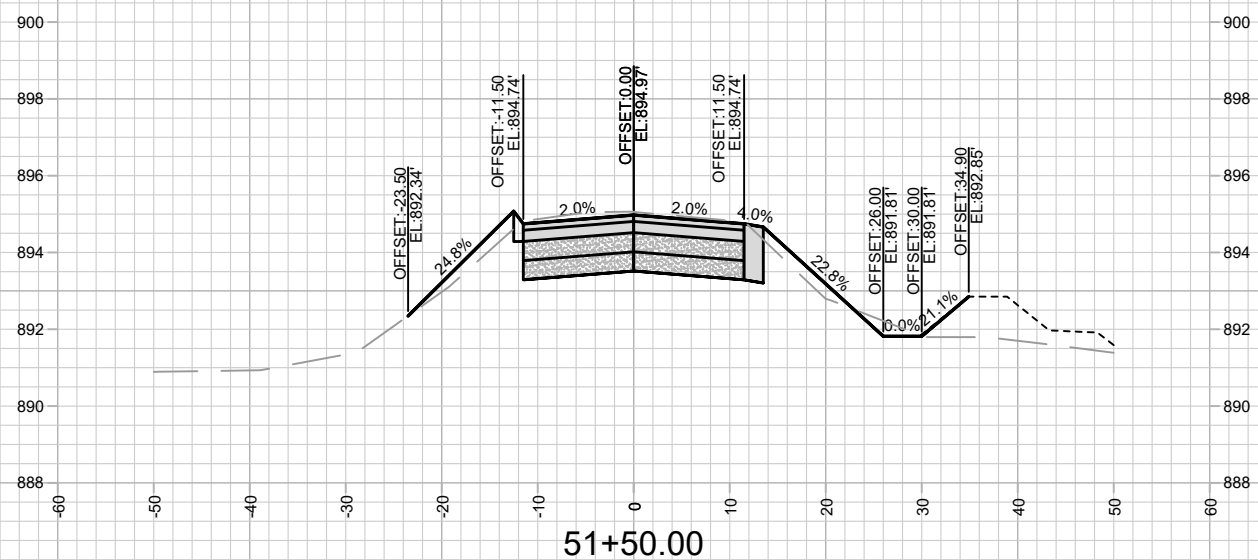
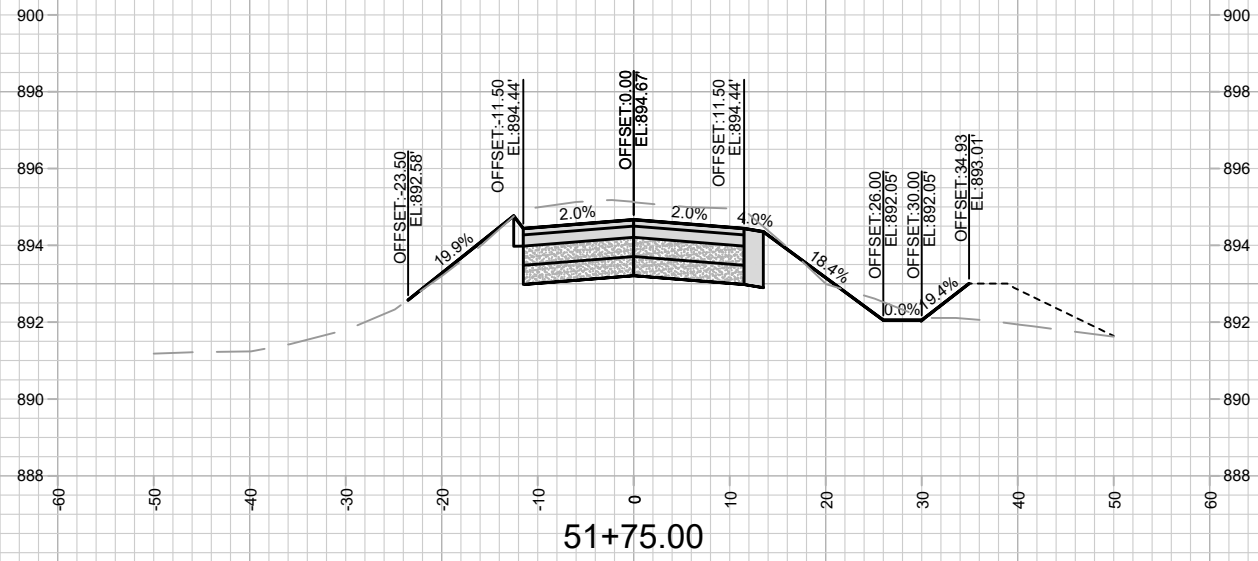
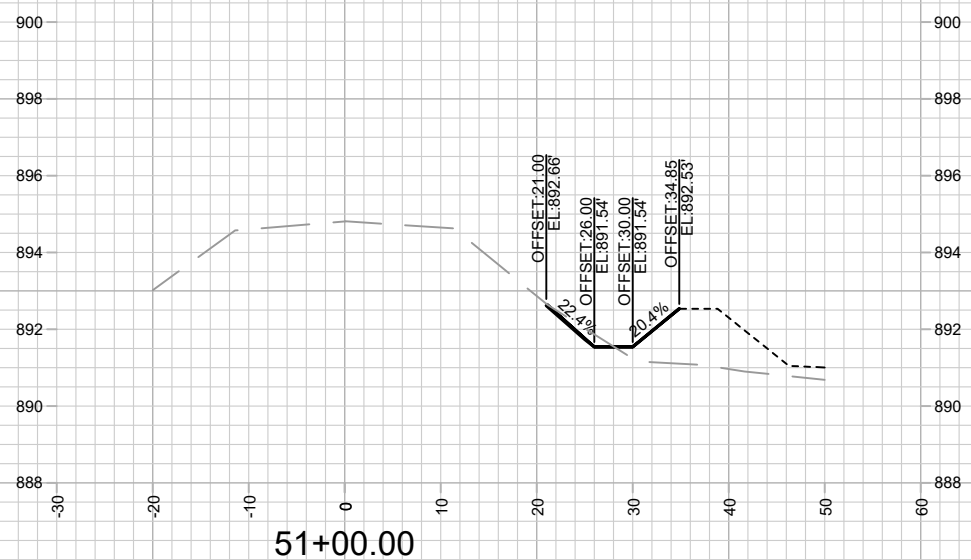
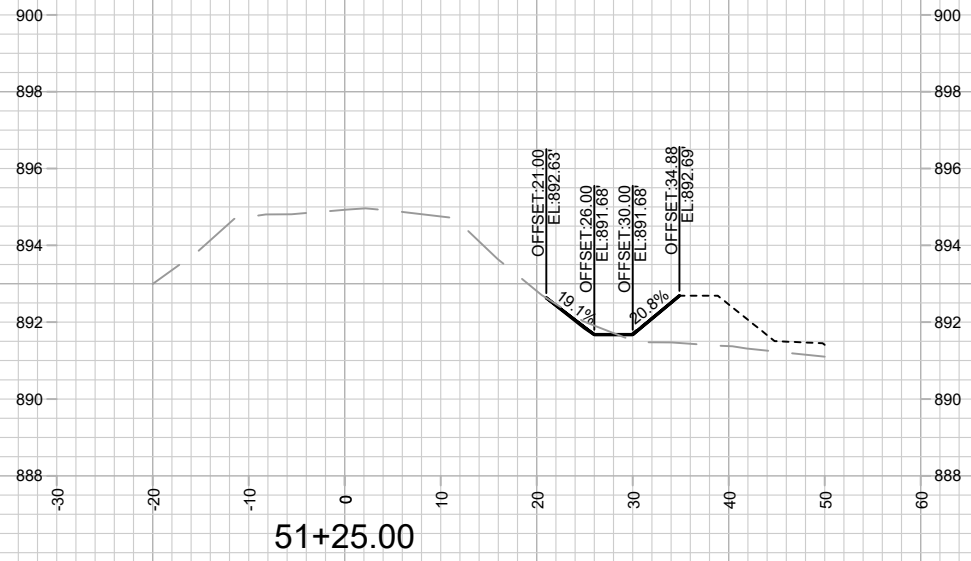


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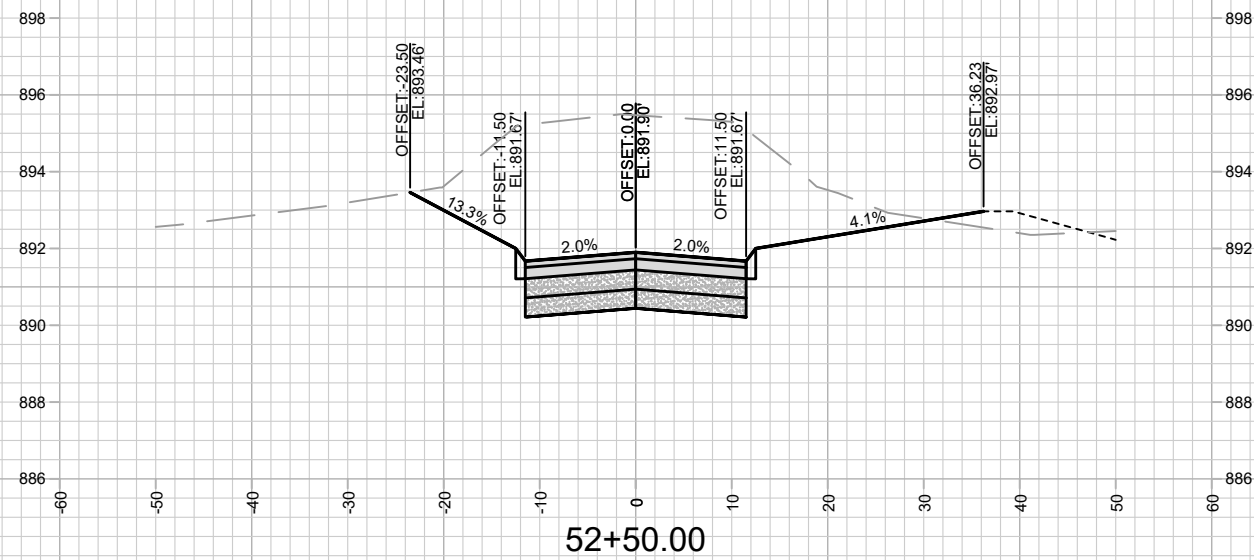
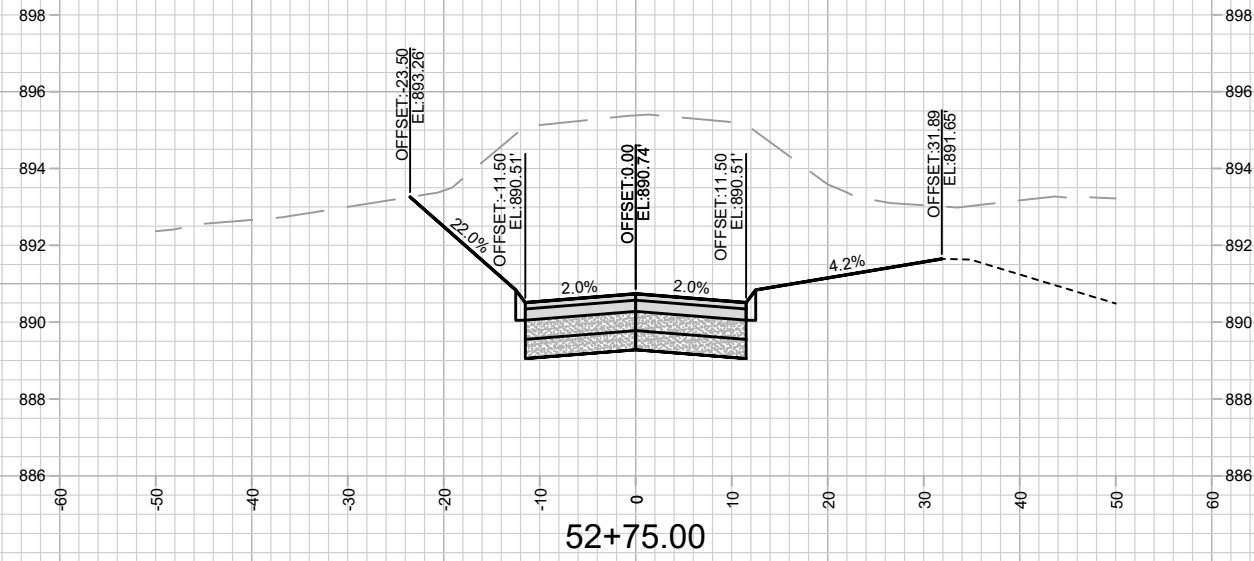
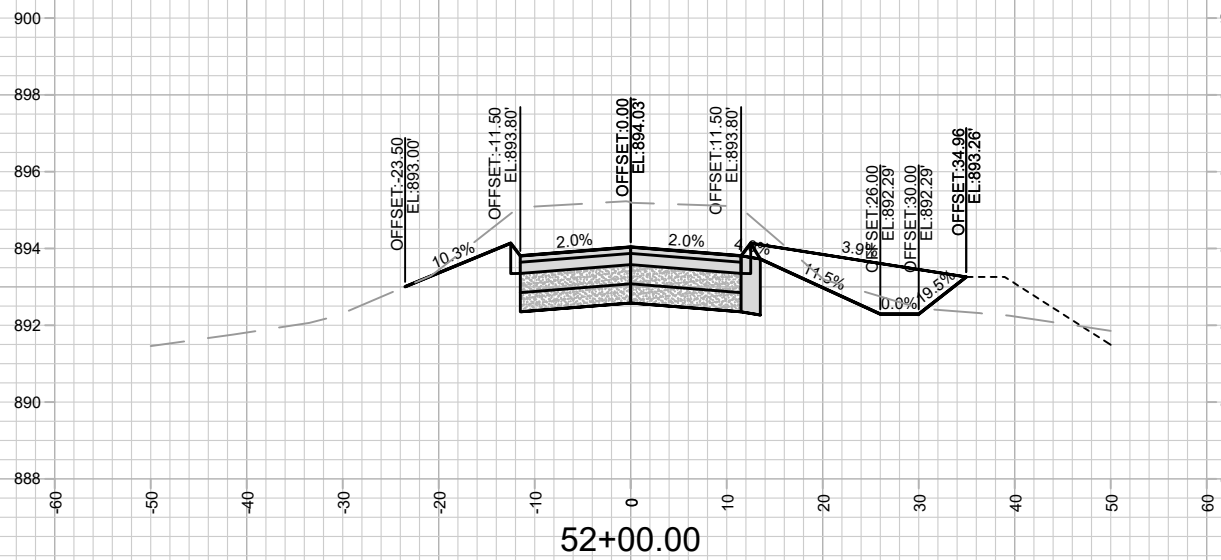
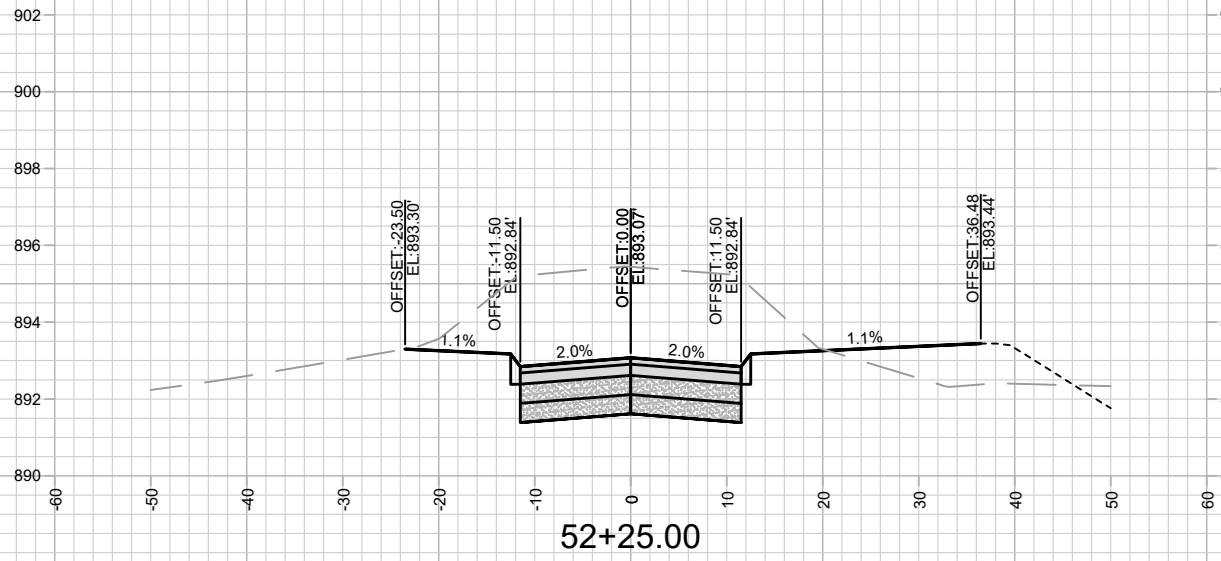
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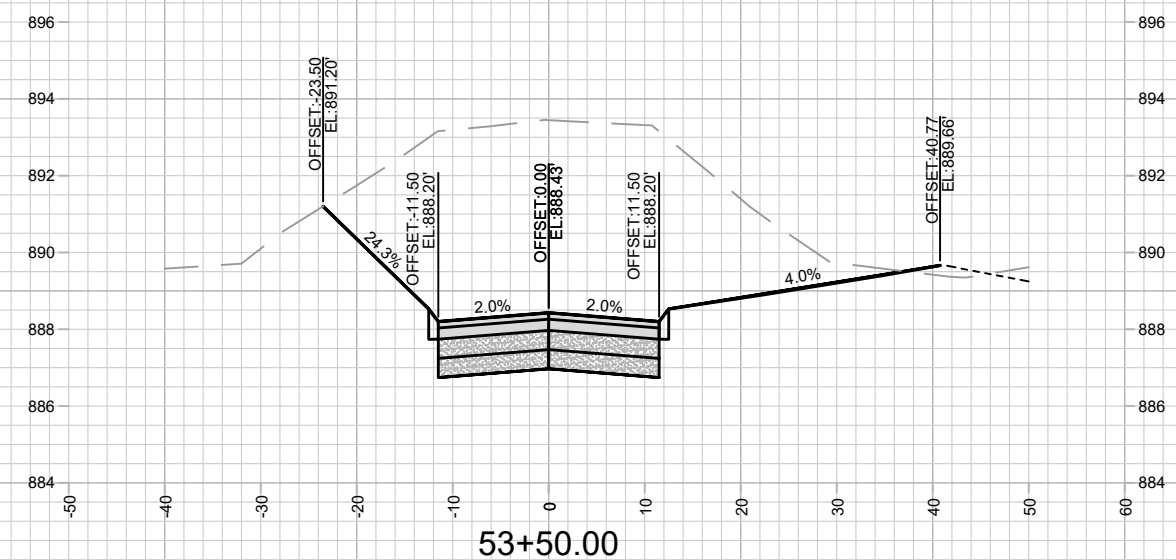
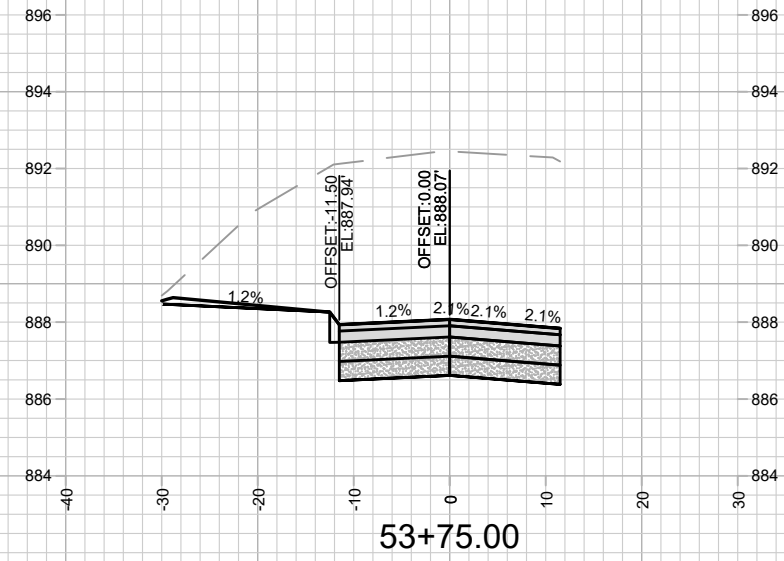
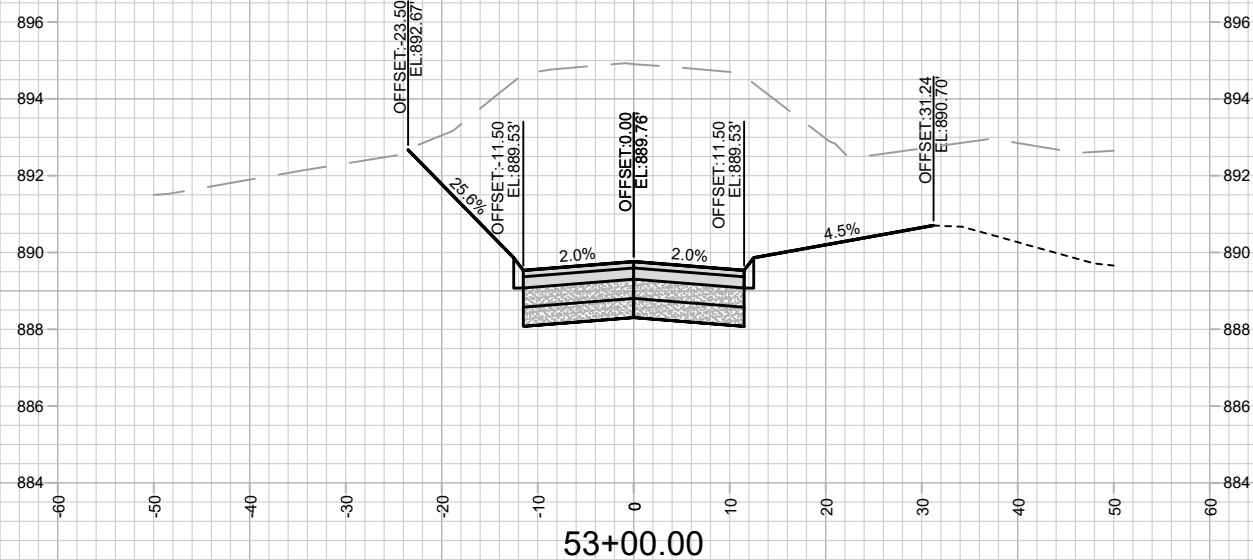
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MADISON, WI
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Date: 10/23/2024 5:29 AM
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MARK	REVISION	DATE	BY

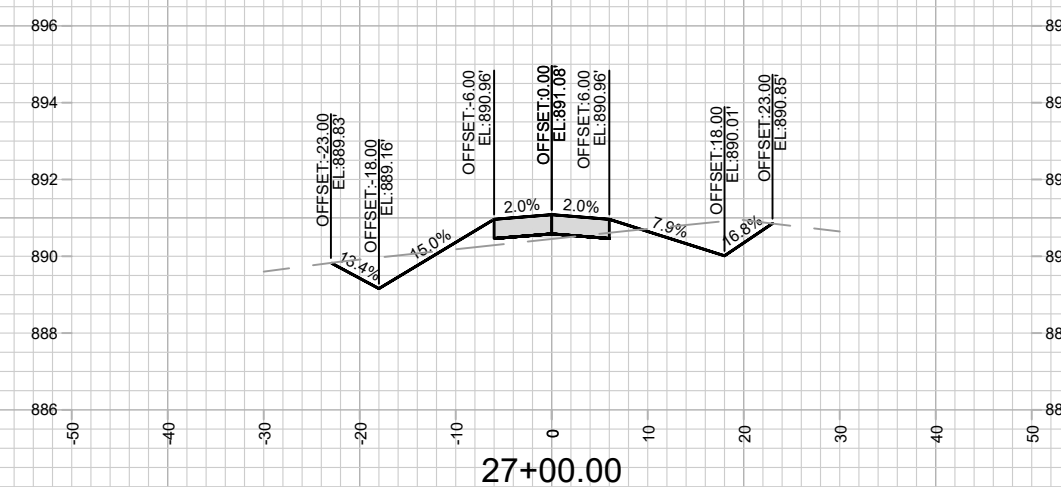
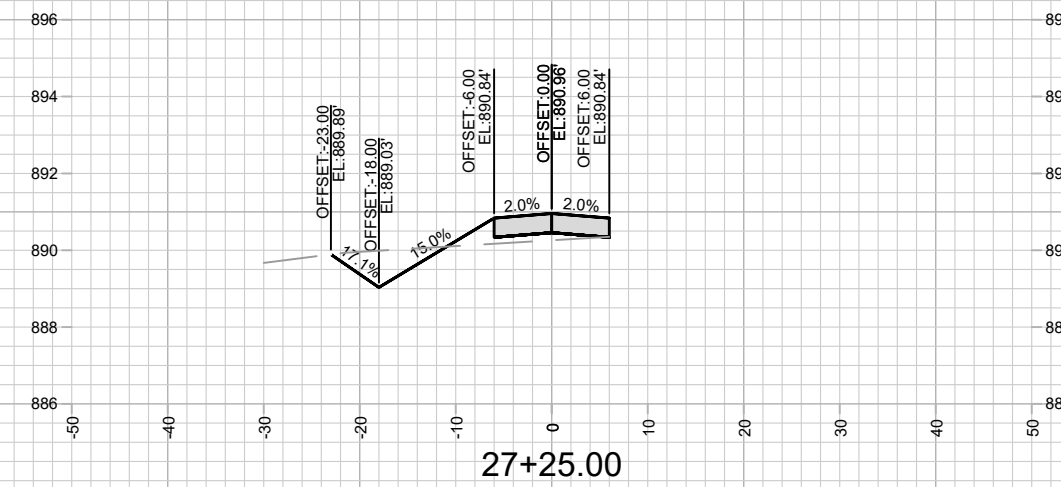
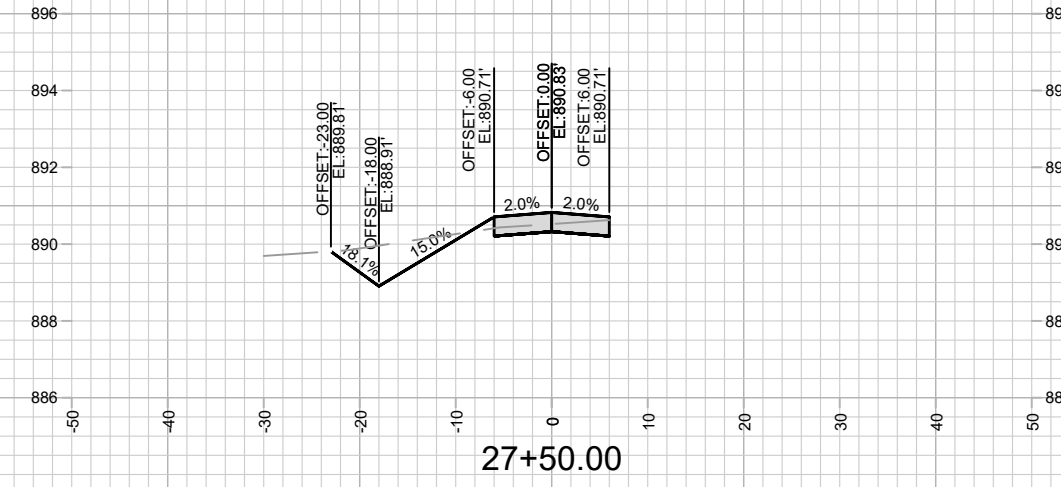
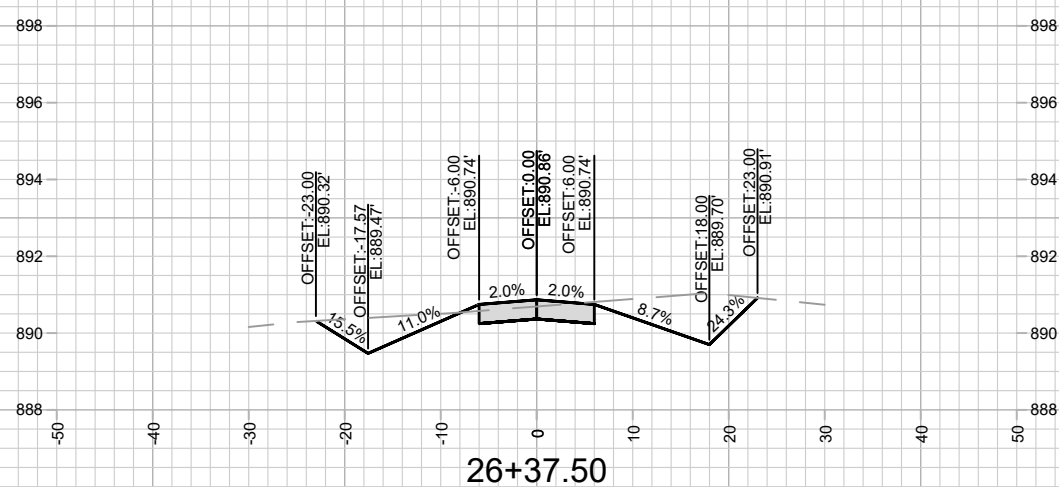
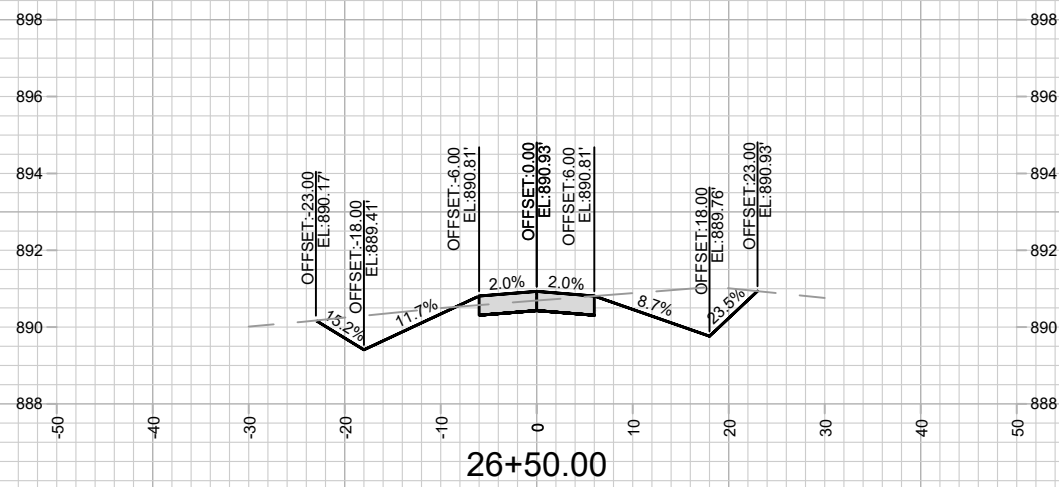
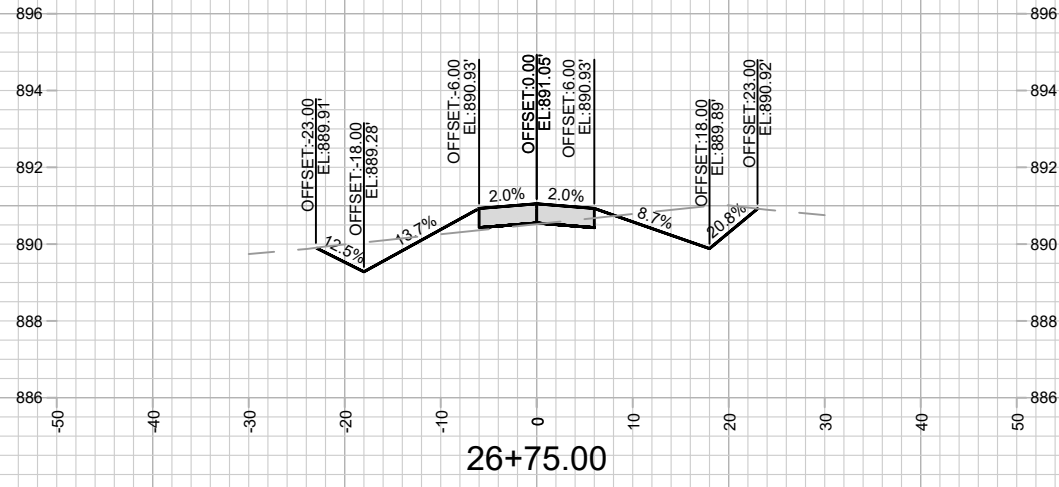
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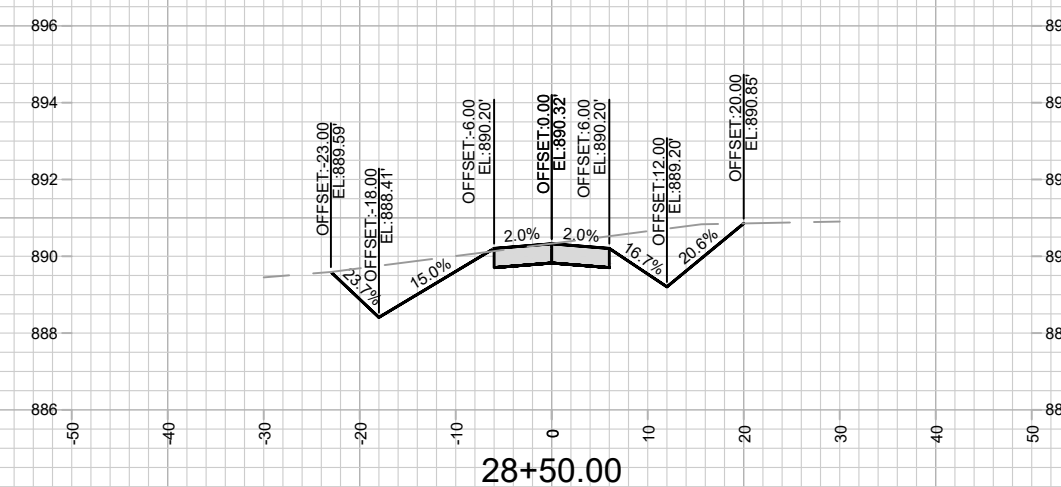
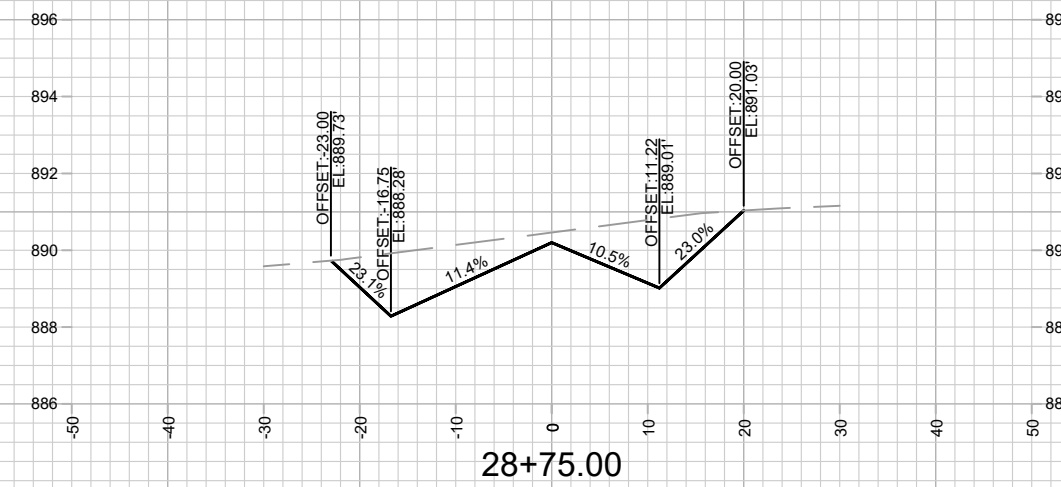
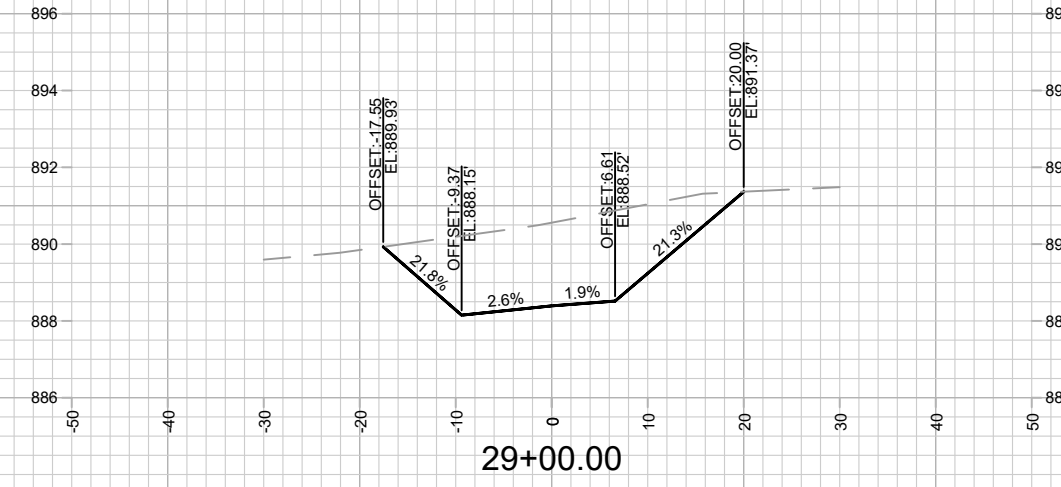
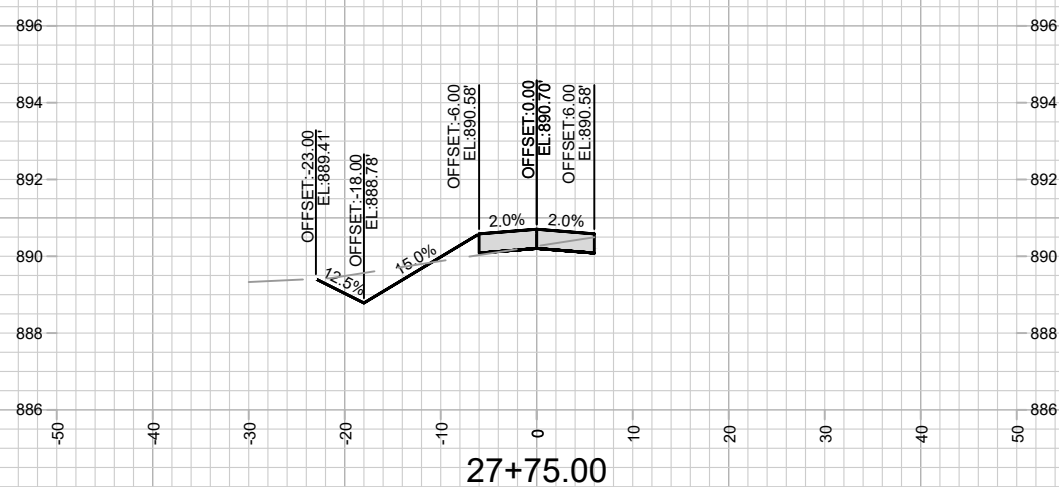
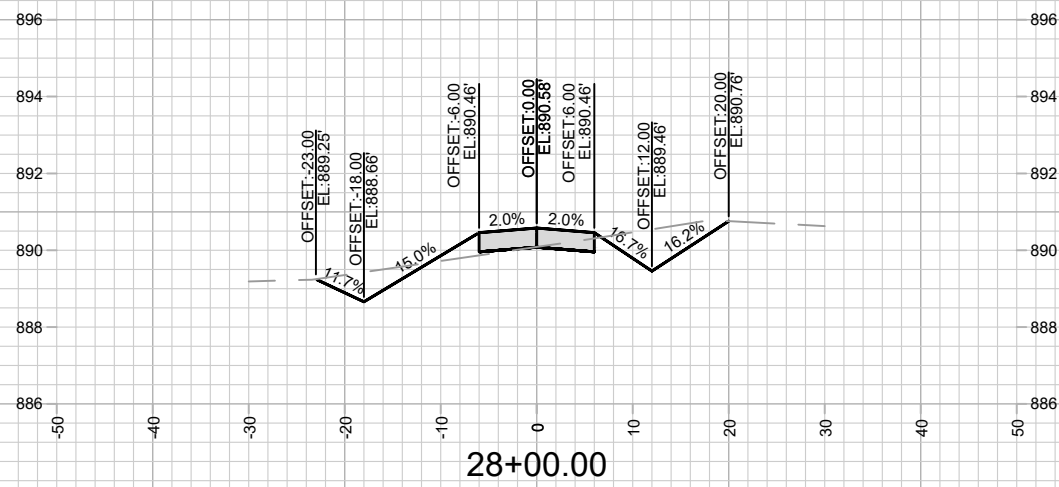
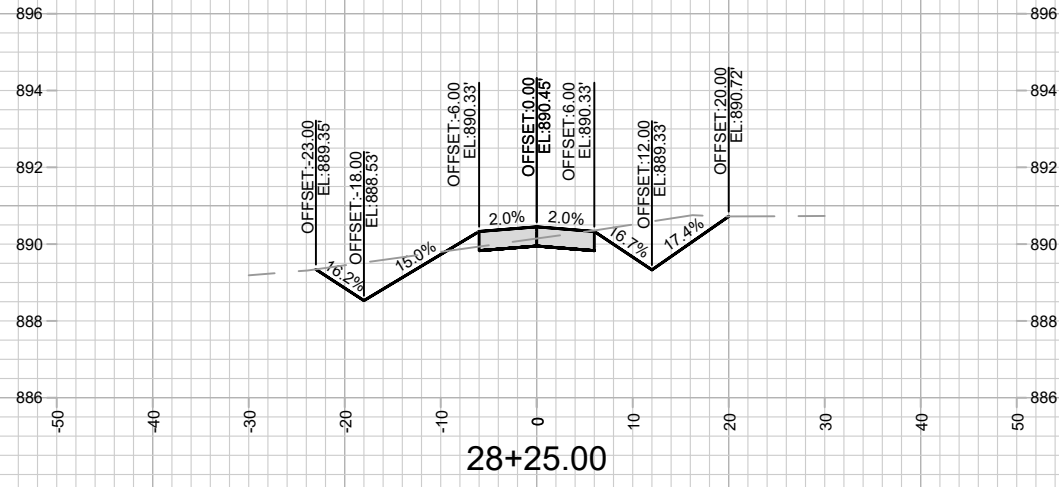
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MADISON, WI
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CONTRACT NO:

CROSS SECTIONS - LUDS CT SANITARY ACCESS RD
LUDS LANE AND FEMRITE DRIVE CSM
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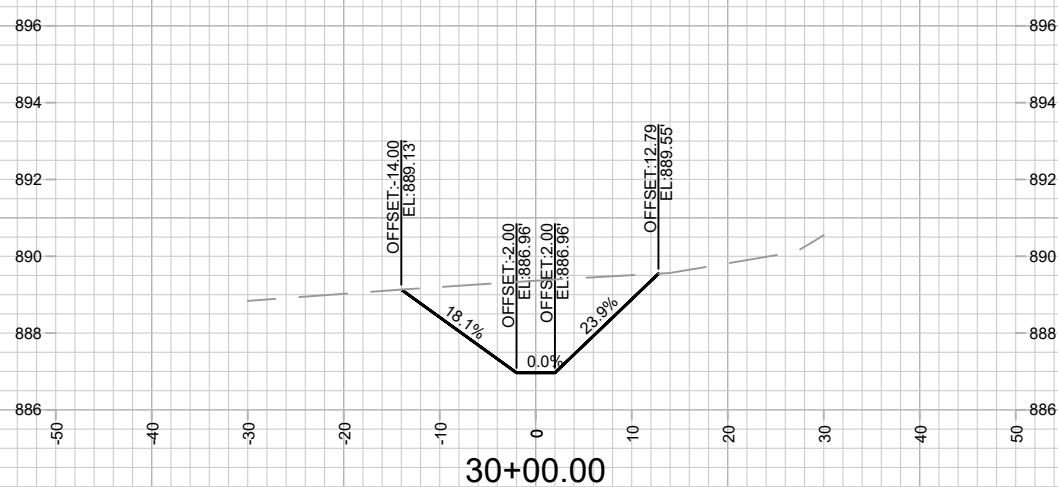
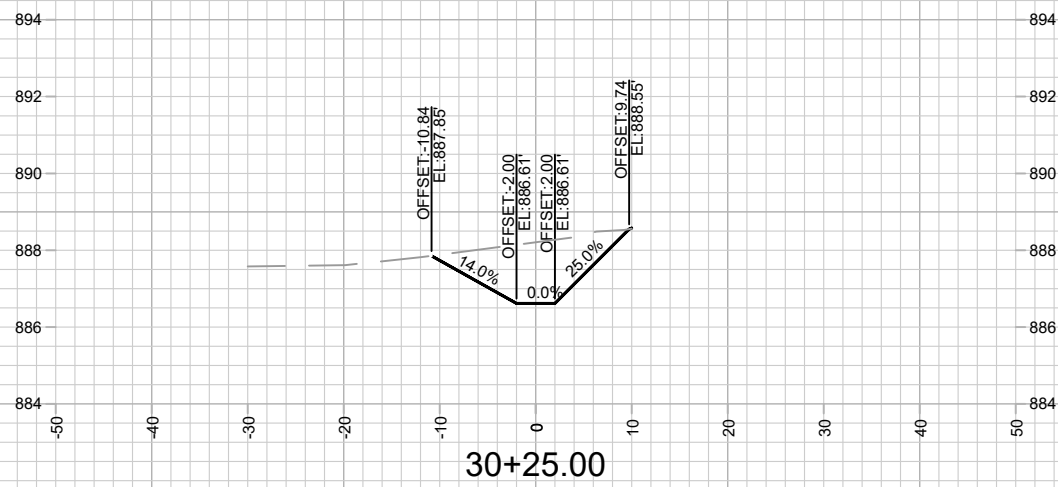
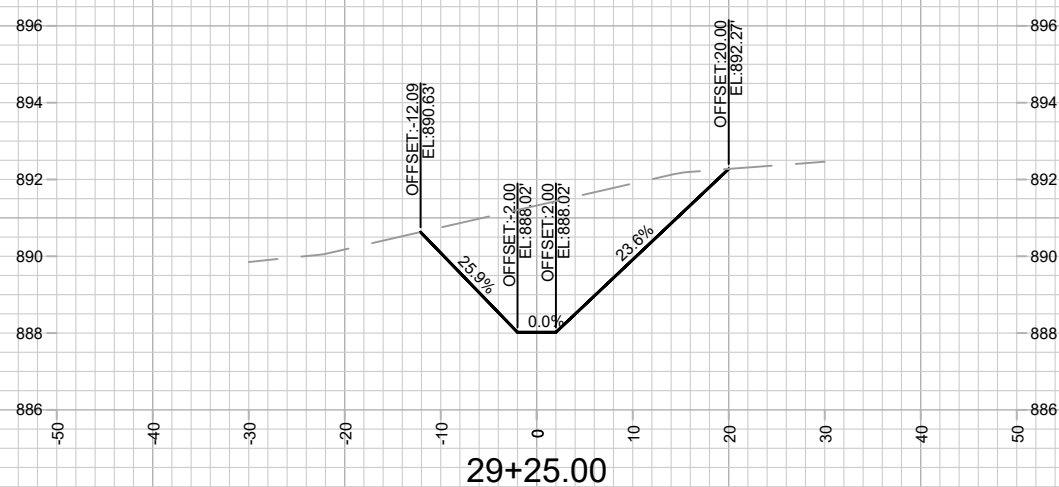
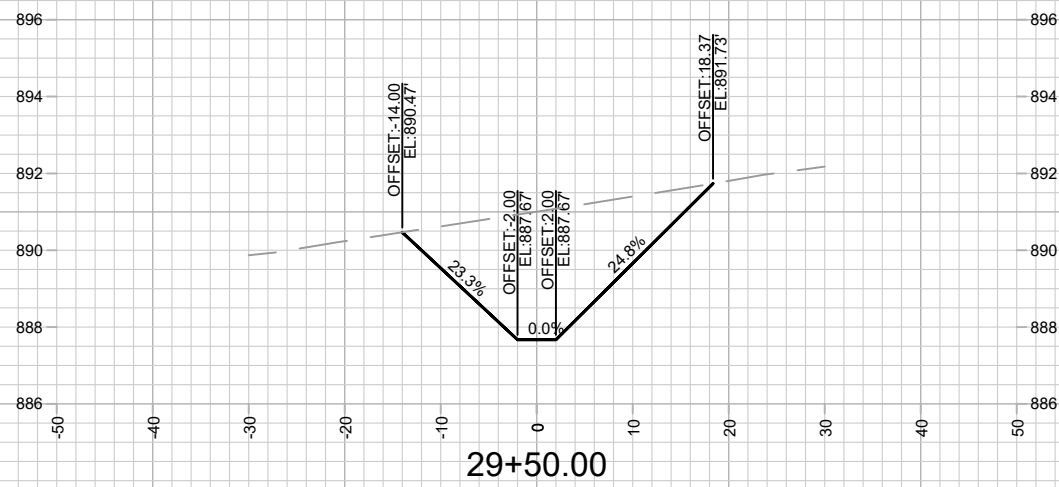
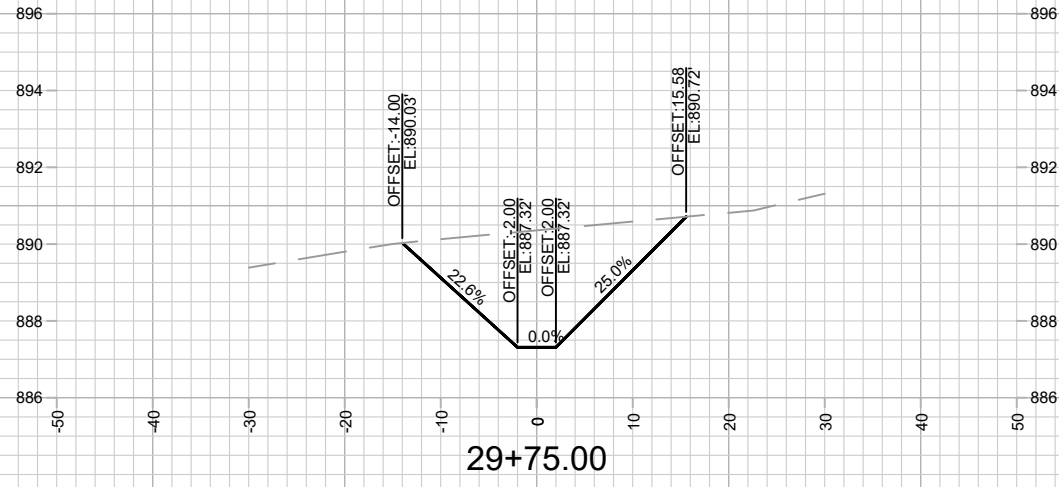
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CROSS SECTIONS - LUDS CT SANITARY ACCESS RD
LUDS LANE AND FEMRITE DRIVE CSM

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Contract No: 9481			

14950
MADISON, WI
CONTRACT NO: 9481

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CROSS SECTIONS - LUDS CT SANITARY ACCESS RD
LUDS LANE AND FEMRITE DRIVE CSM

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9481
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TOWN OF
COTTAGE GROVE

7625 LUDS LANE

LUDS LANE

PROPOSED DEVELOPMENT
(FOR REFERENCE ONLY)

LUDS COURT

PUBLIC STORM WATER EASEMENT

PROPOSED POND SHALL BE
MAINTAINED BY DANE COUNTY

SANITARY PATH SHALL BE
MAINTAINED BY DANE COUNTY

MAINTENANCE LEGEND:

- = TERRACE REQUIRE MOWING BY CITY
- = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
- = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)
- = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
- = PUBLIC CITY PARK PROPERTY
- = PRIVATE OUTLOT
- = PHASE BOUNDARY

SPECIAL FEATURES LEGEND:

- = SUSPENDED PAVEMENT SYSTEM
- = STORM WATER FEATURE
- = UNDERDRAIN

**NOT FOR CONSTRUCTION -
CITY RECORDS ONLY**



NOTES:

1. ALL PROPOSED PONDS/GREENWAY SHALL BE MAINTAINED BY DANE COUNTY.

MARK	REVISION	DATE	BY
14950	10/16/2024 7:14 AM	#####	MN-1

14950
MADISON, WI
9481
CONTRACT NO:

MAINTENANCE PLAN
LUDS LANE AND FEMRITE DRIVE CSM
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