



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

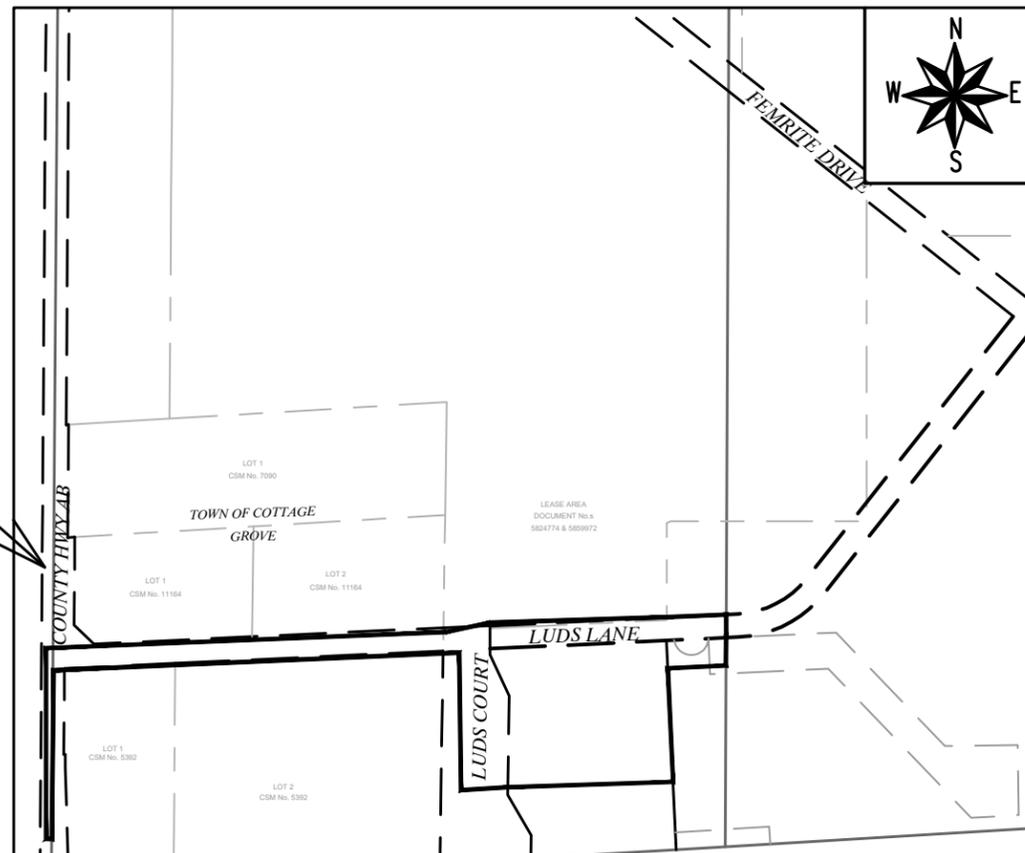
LUDS LANE AND FEMRITE DRIVE CSM

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CITY PROJECT NO. 14950
CONTRACT NO. 9481

PROJECT
LOCATION



REVISION
 REV #1 - U7, & U9 updated.
 REV #2 - W4, W7, & W8 updated.
 REV #3 - P1, P7, P8, U1-U3, U8, U9, W1, W2, PM1-3 updated.
 REV #4 - U-3, U-4, U-8, U-9, W-3, & W-4 updated.

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>	

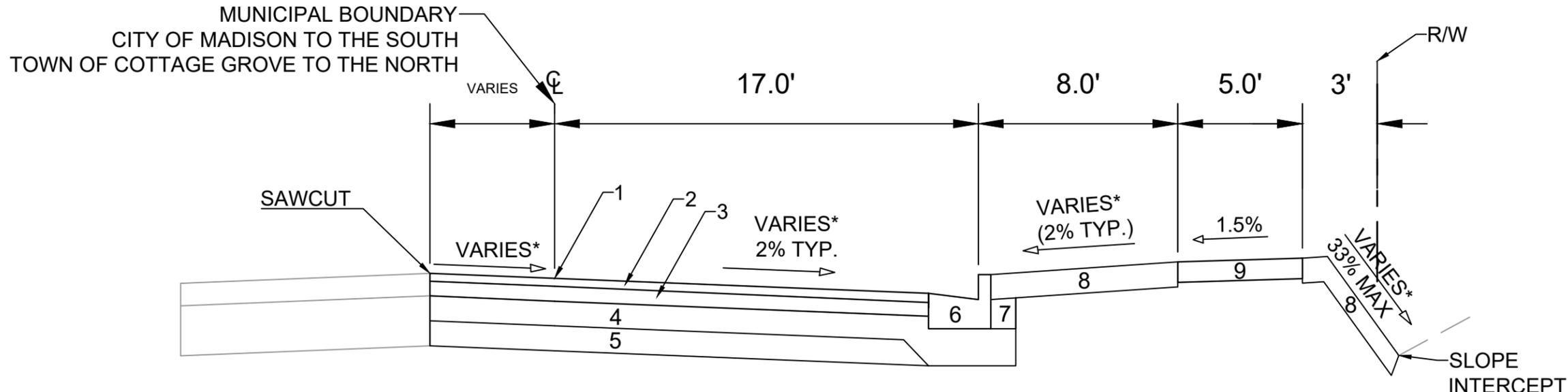
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MADISON, WI
9481
CONTRACT NO:

STANDARD NOTES
LUDS LANE AND FEMRITE DRIVE CSM
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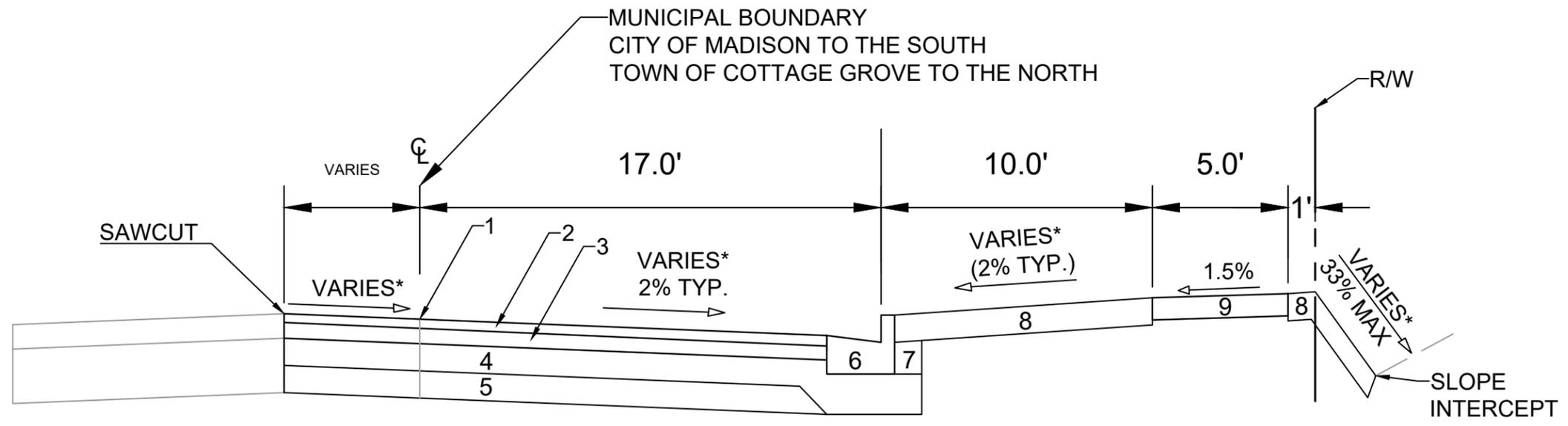


14950
D-1



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

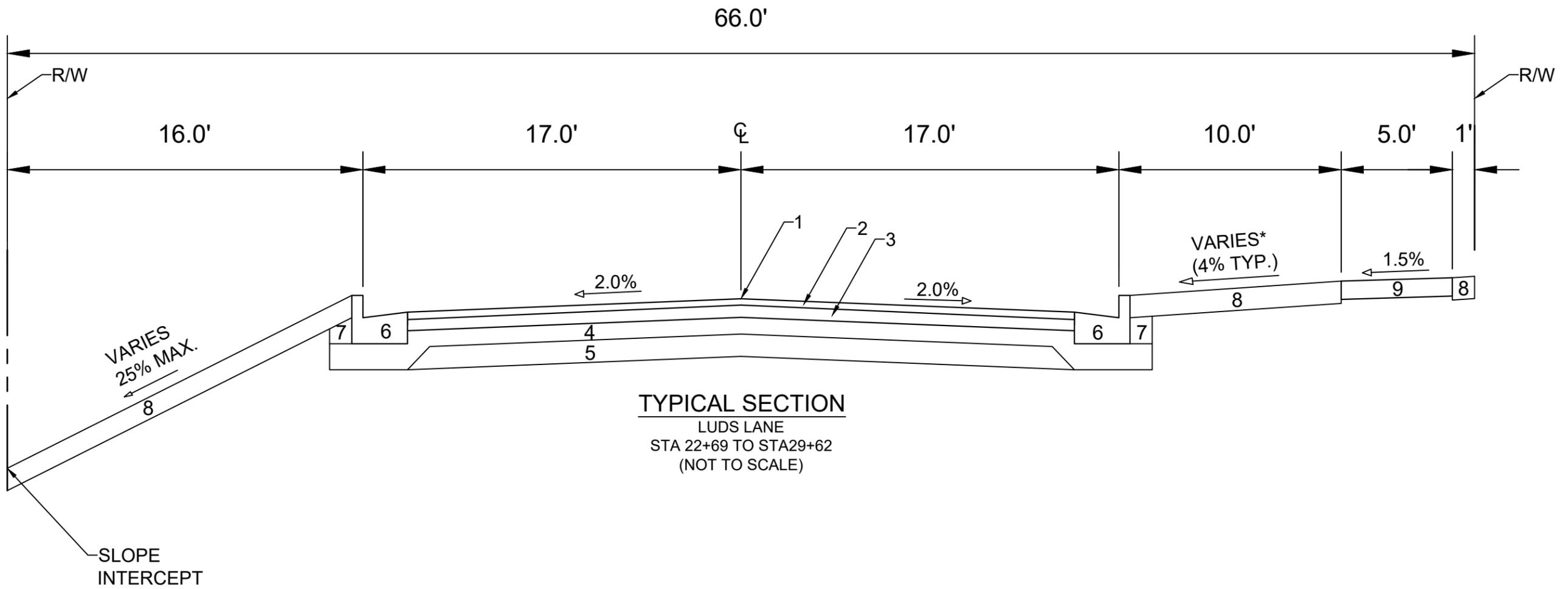
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TYPICAL SECTIONS
 LUDS LANE AND FEMRITE DRIVE CSM
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 D-2



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

SPECIAL NOTES:

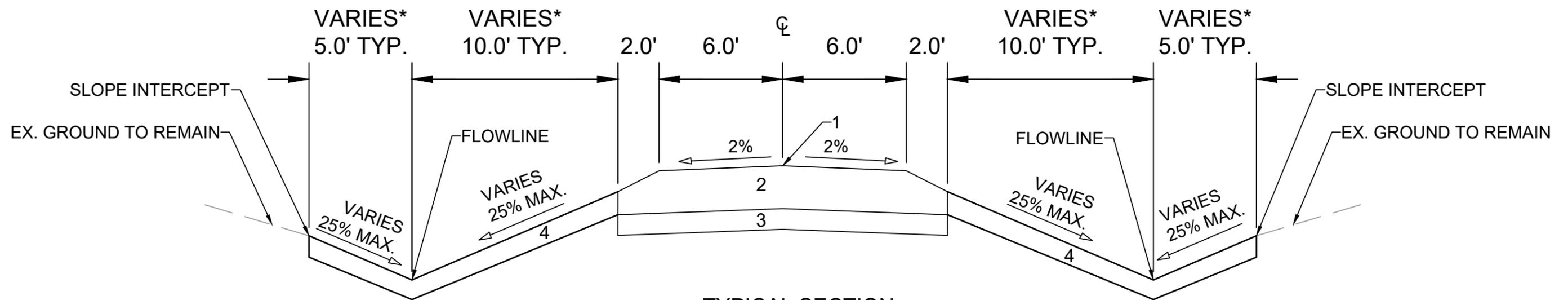
*SEE P & X SHEETS FOR CROSS SLOPES

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

REVISION #3

LEGEND

- = DRAINAGE FLOW PATH
- //// = PAVEMENT SAWCUT
- = 3.5" MILL & OVERLAY, 2 LIFTS OF TYPE 4 MT 58-28 S. LIMITS SHOWN ARE APPROXIMATE AND CAN BE MODIFIED BY THE CITY CONSTRUCTION ENGINEER WITH APPROVAL FROM DANE COUNTY HIGHWAY.
- = 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

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

LUDS LANE

MATCH LINE 17+50.00

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

6" TOPSOIL,
SEED & MAT

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*

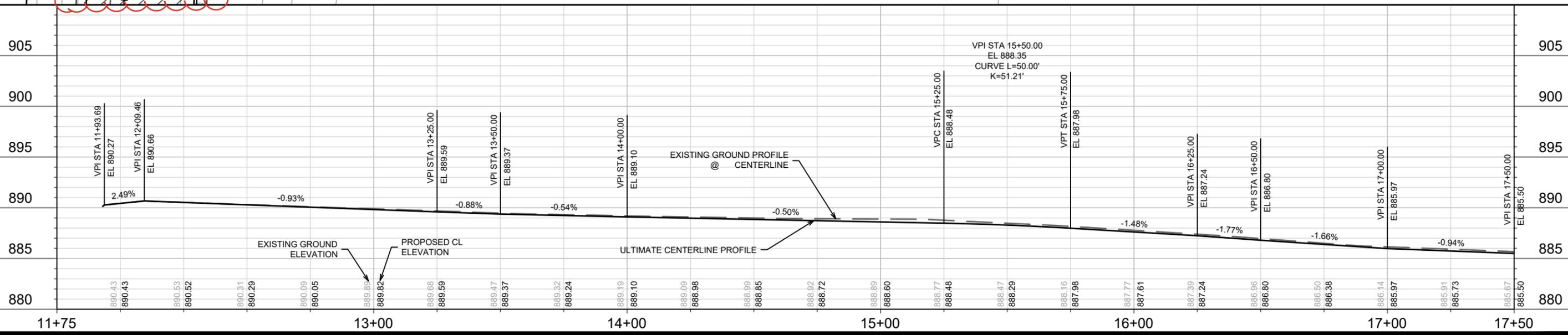
STA 16+57.38, 30.00' RT
886.62 BW/ END DRIVEWAY

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



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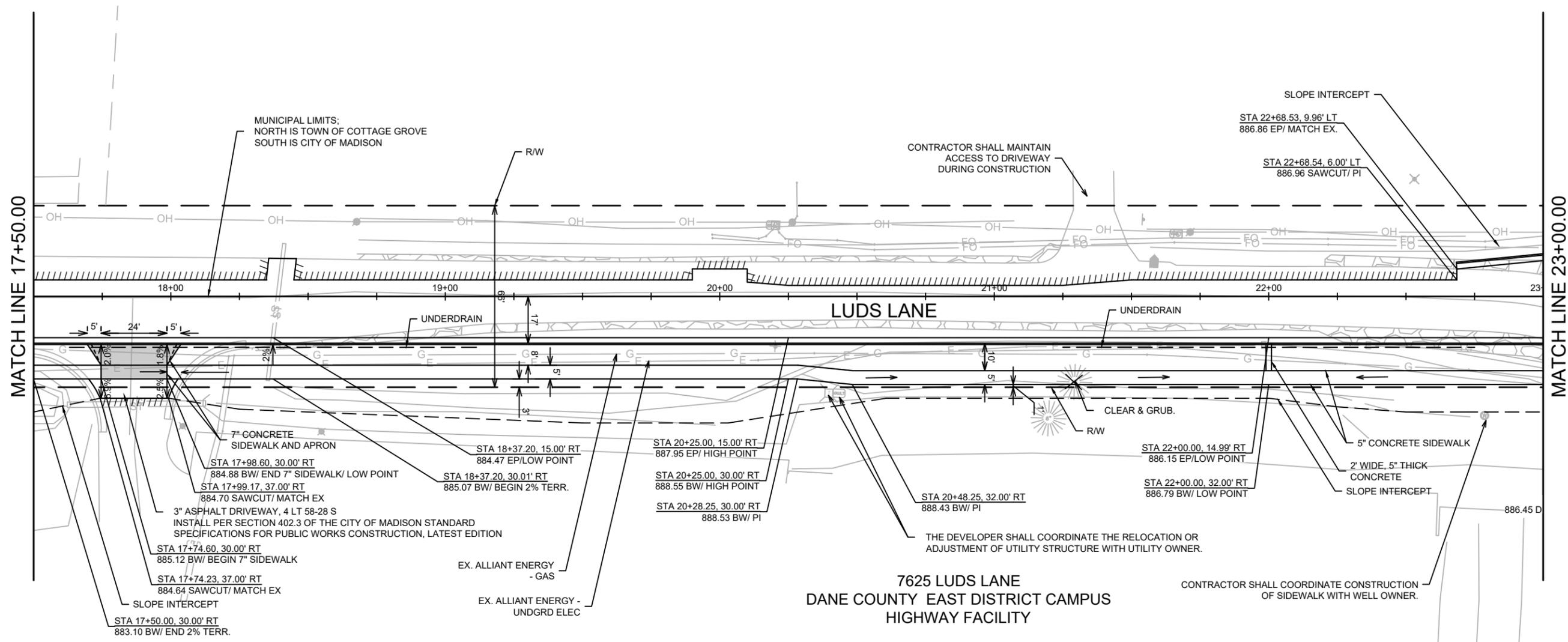
STREET PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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P-1

MATCH LINE 17+50.00

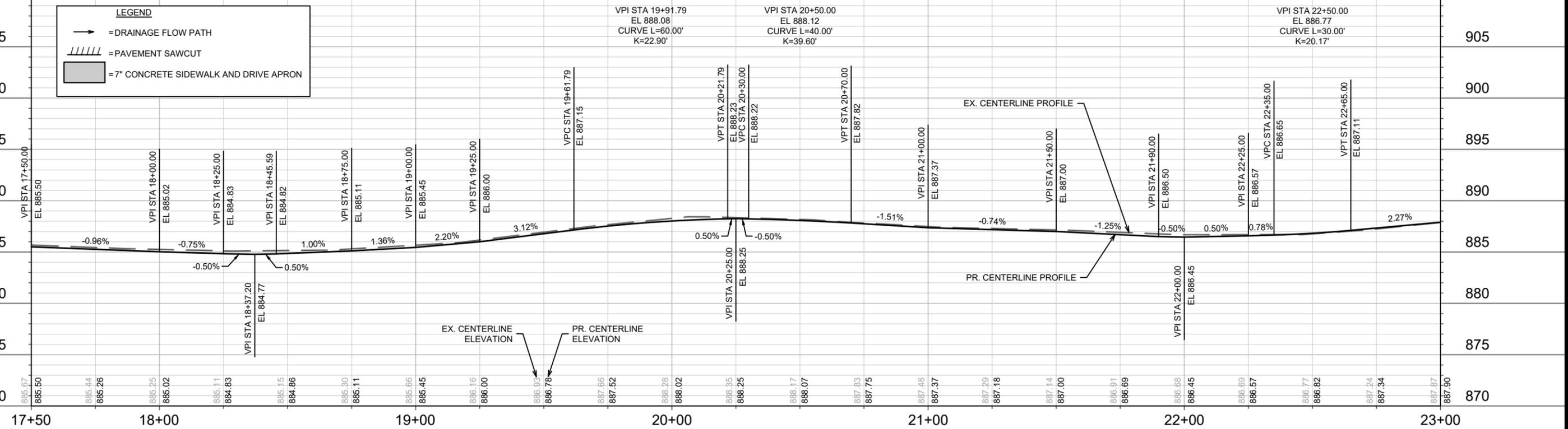
MATCH LINE 23+00.00



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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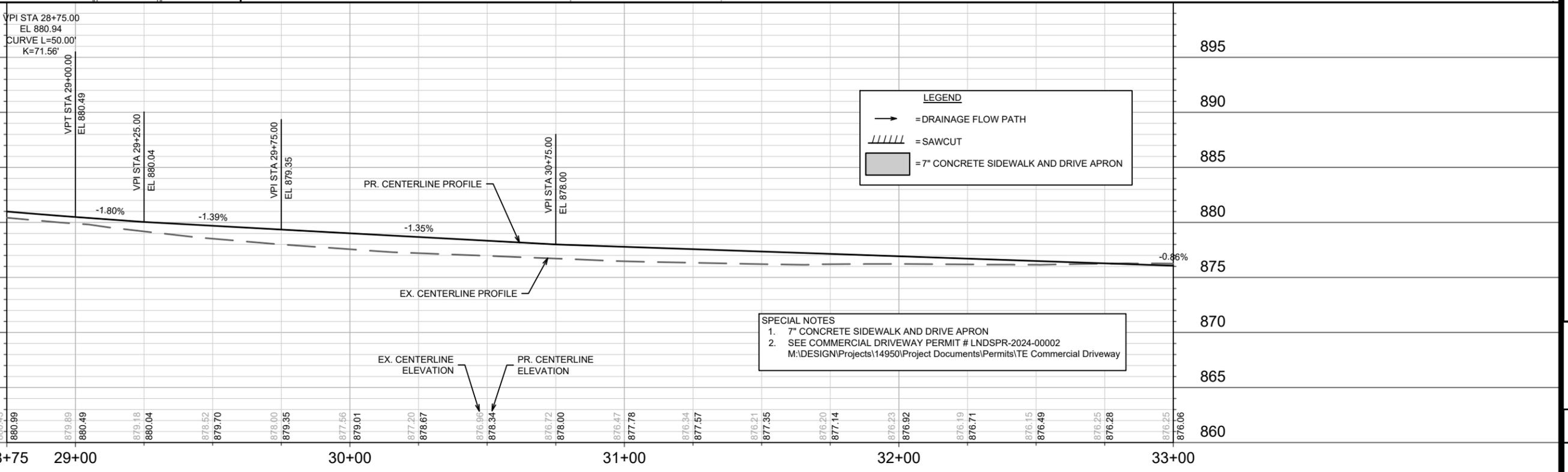
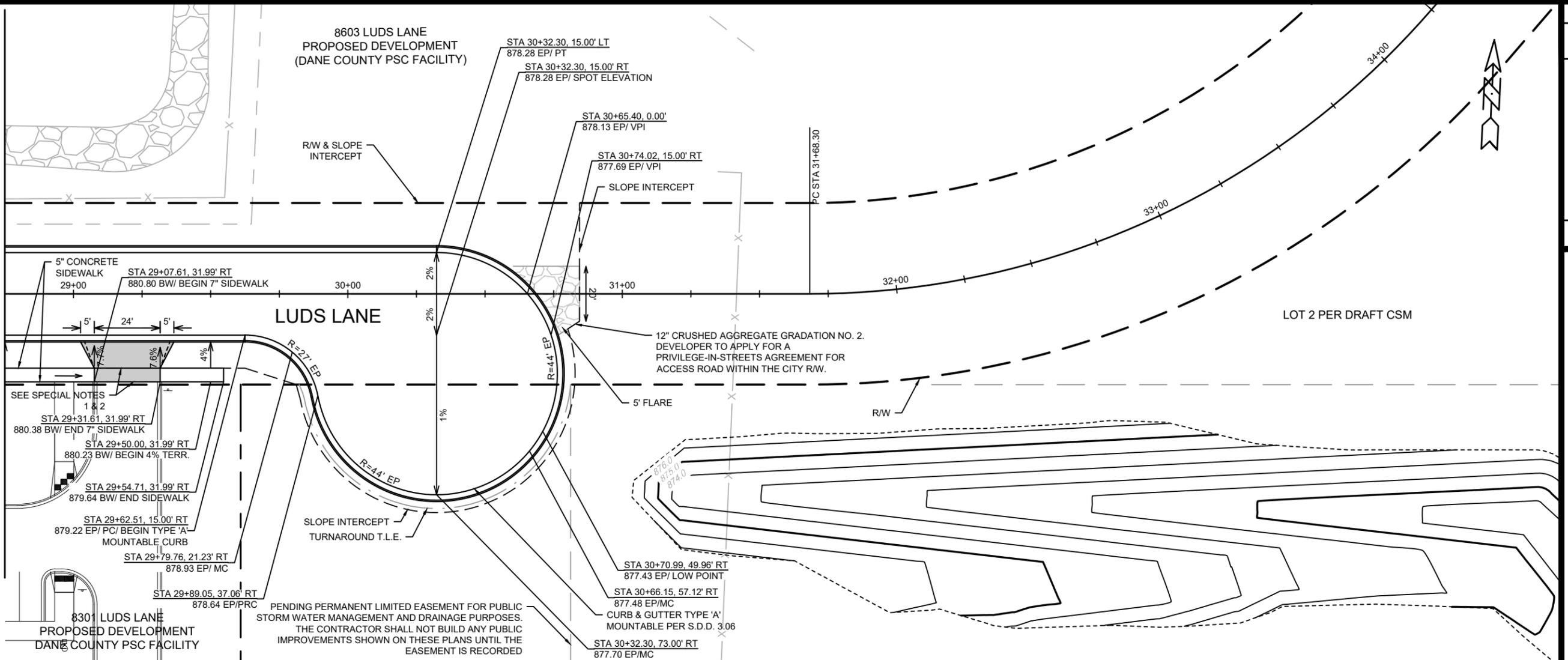
14950
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STREET PLAN & PROFILE - LUDS LANE
LUDS LANE AND FEMRITE DRIVE CSM
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14950
P-2

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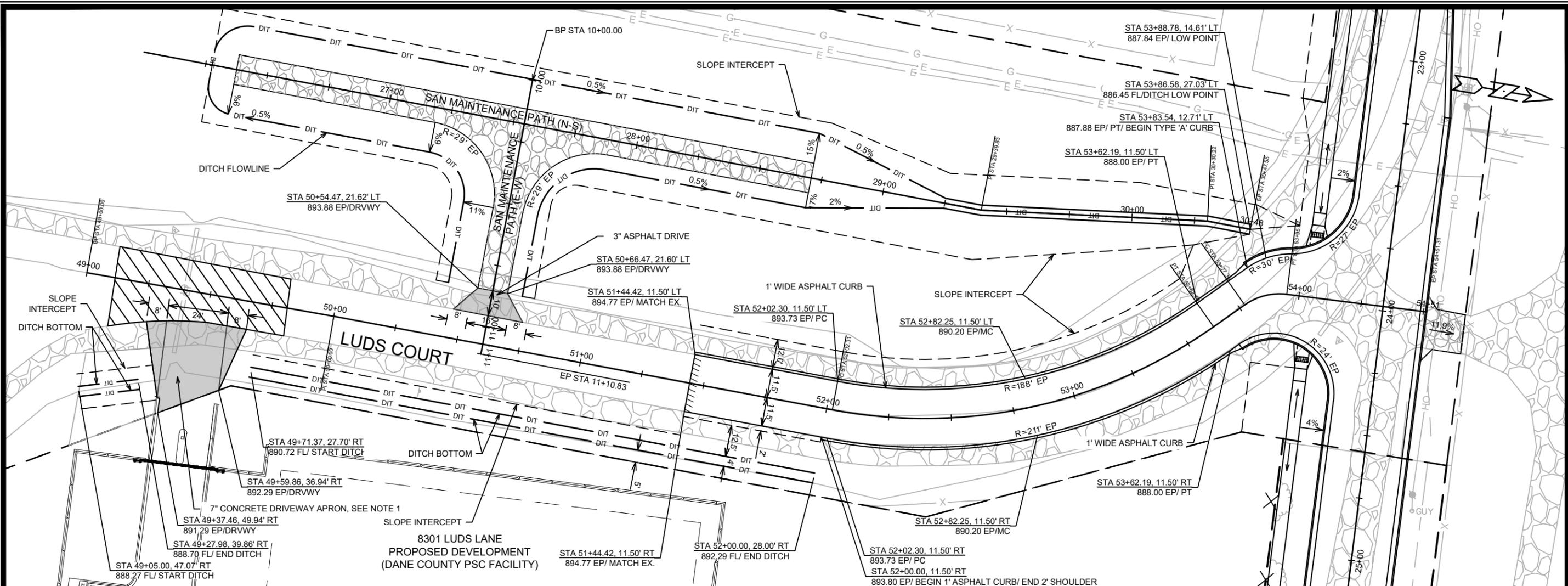
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STREET PLAN & PROFILE - LUDS LANE
 LUDS LANE AND FEMRITE DRIVE CSM
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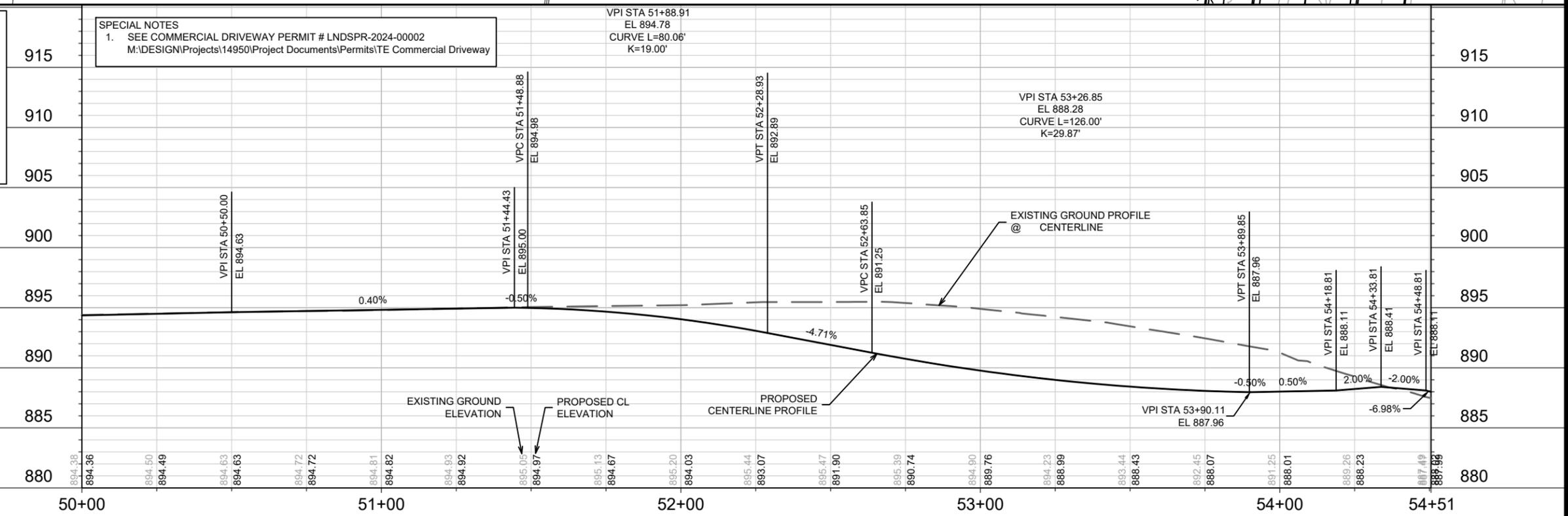


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 P-4



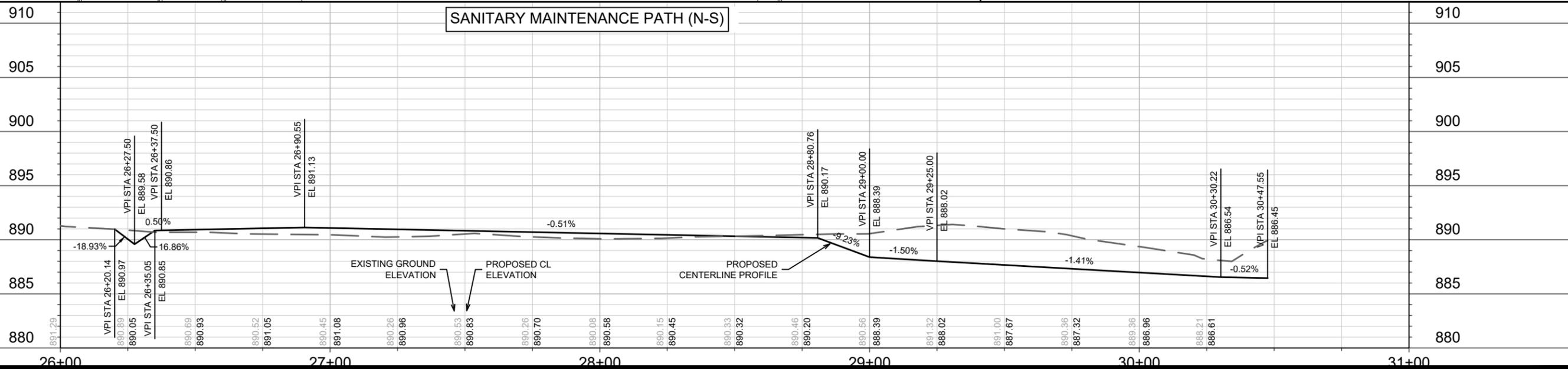
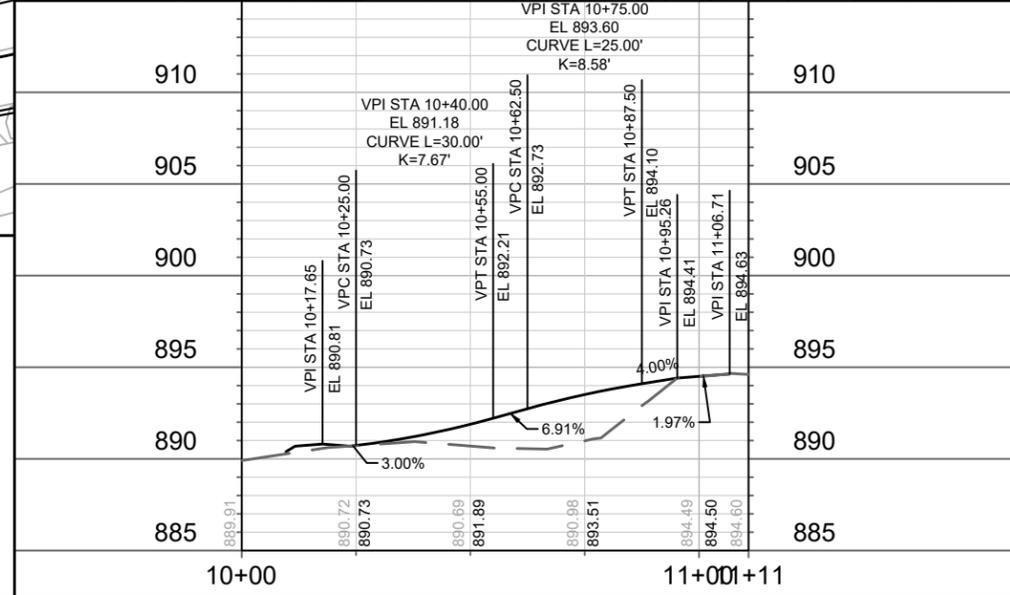
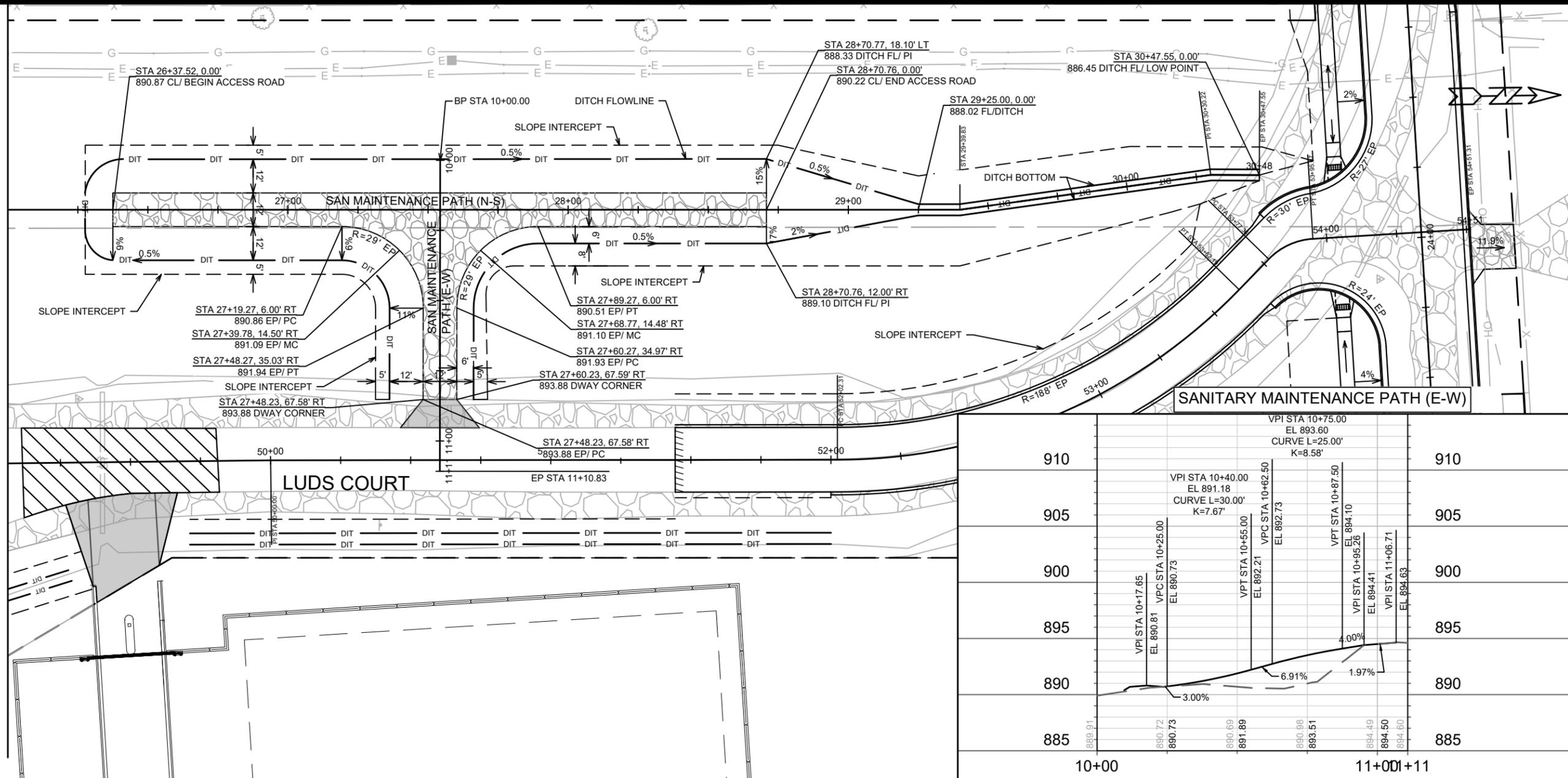
LEGEND

- = 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	9481	CONTRACT NO:
STREET PLAN & PROFILE - LUDS COURT			
LUDS LANE AND FEMRITE DRIVE CSM			
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MATCH LINE 26+00.00



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9481

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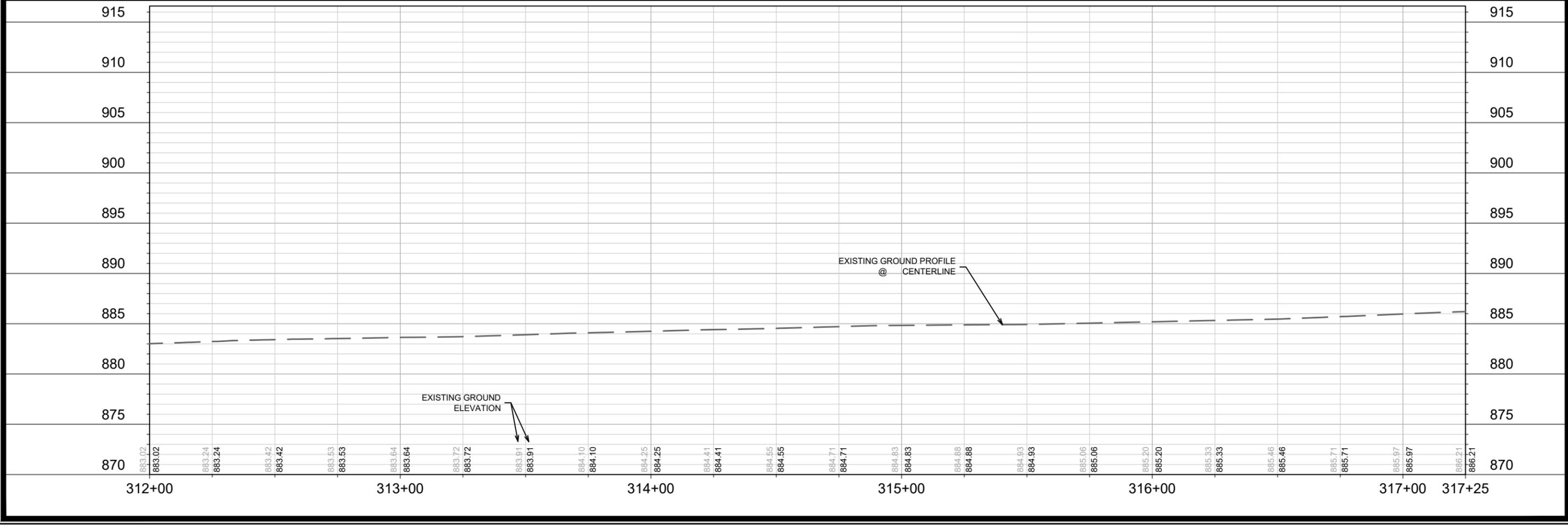
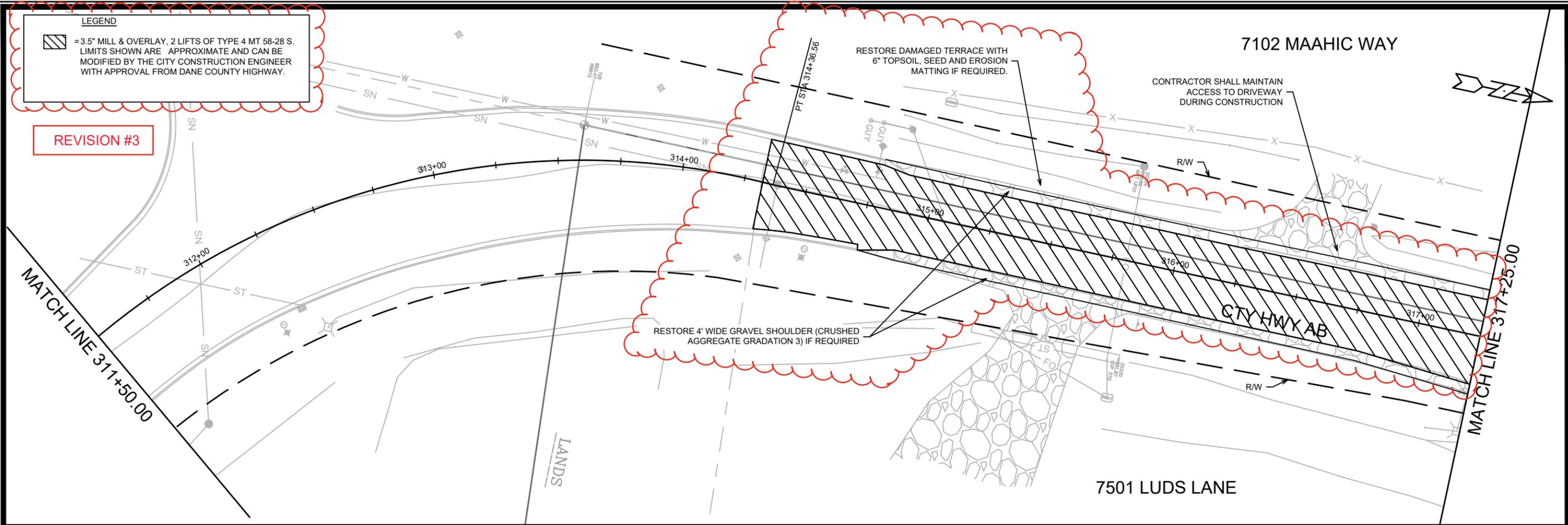
STREET PLAN & PROFILE - SANITARY MAINTENANCE PATH
LUDS LANE AND FEMRITE DRIVE CSM
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P-6

LEGEND
 = 3.5" MILL & OVERLAY, 2 LIFTS OF TYPE 4 MT 58-28 S. LIMITS SHOWN ARE APPROXIMATE AND CAN BE MODIFIED BY THE CITY CONSTRUCTION ENGINEER WITH APPROVAL FROM DANE COUNTY HIGHWAY.

REVISION #3



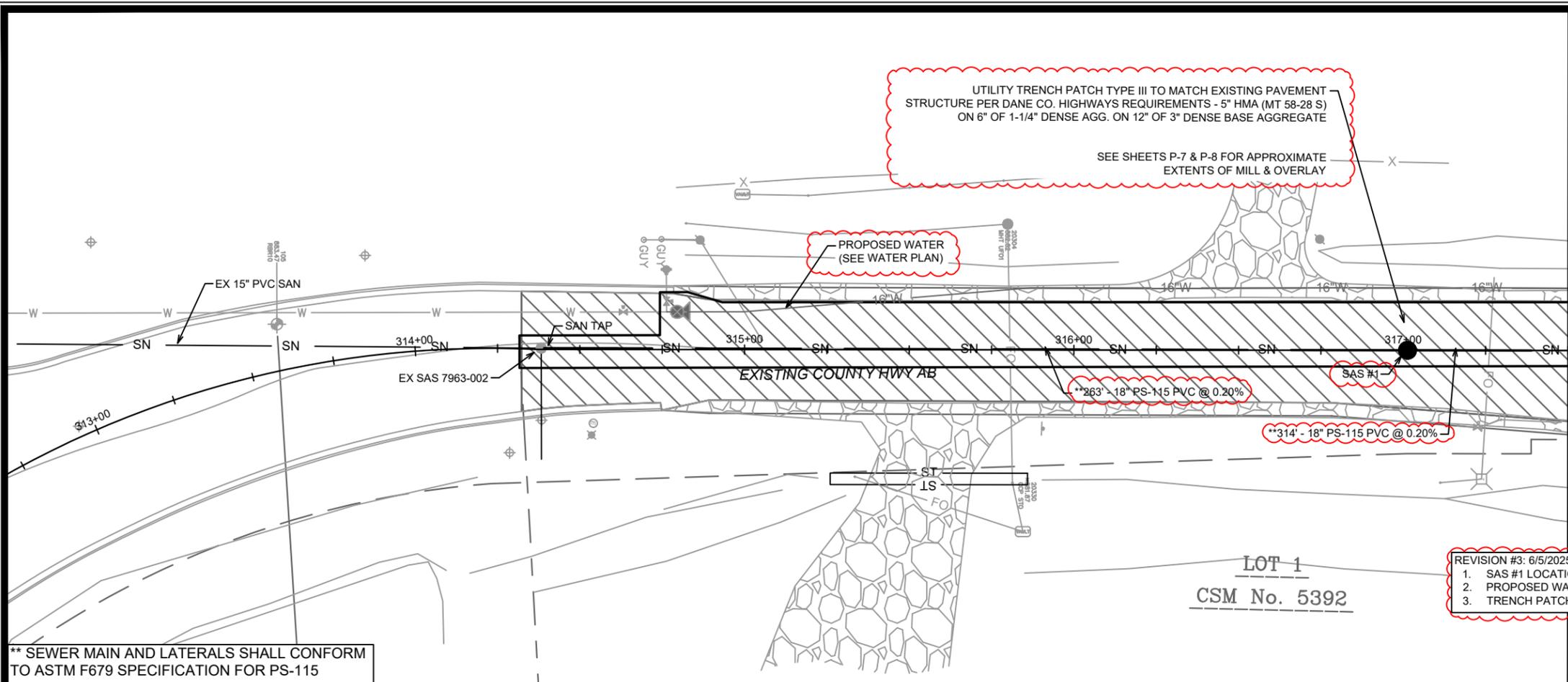
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STREET PLAN & PROFILE - COUNTY HIGHWAY AB
LUDS LANE AND FEMRITE DRIVE CSM
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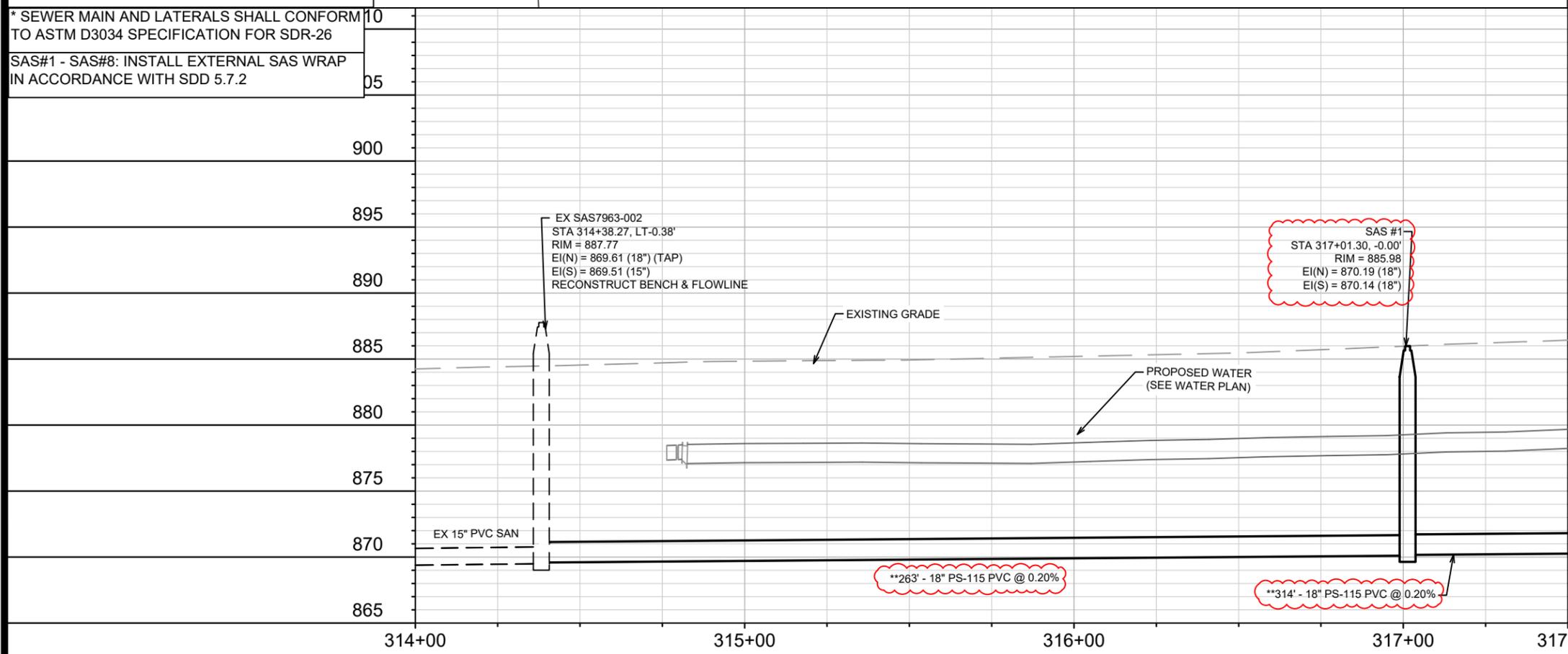
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** SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM F679 SPECIFICATION FOR PS-115

* 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



14950	14950	U-1
MADISON, WI	6/5/25	EAC
9481	6/17/2025	BY
CONTRACT NO:	14950	U-1
14950	14950	U-1

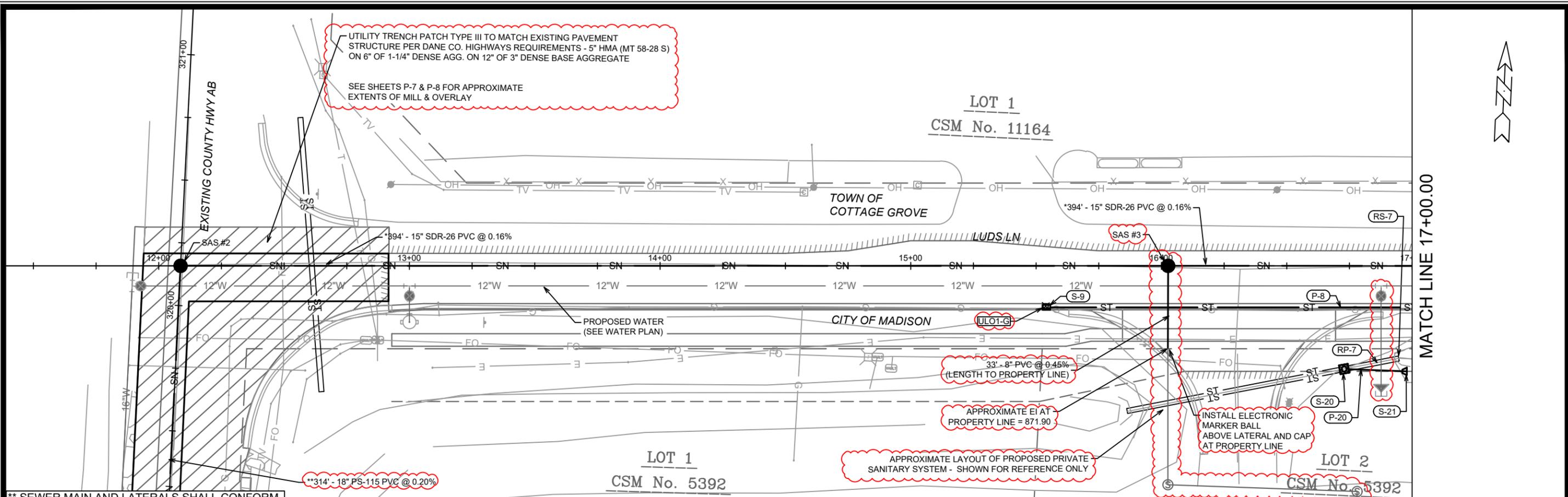
SEWER PLAN & PROFILE - EXISTING COUNTY HWY AB

LUDS LN & FEMRITE DR CSM

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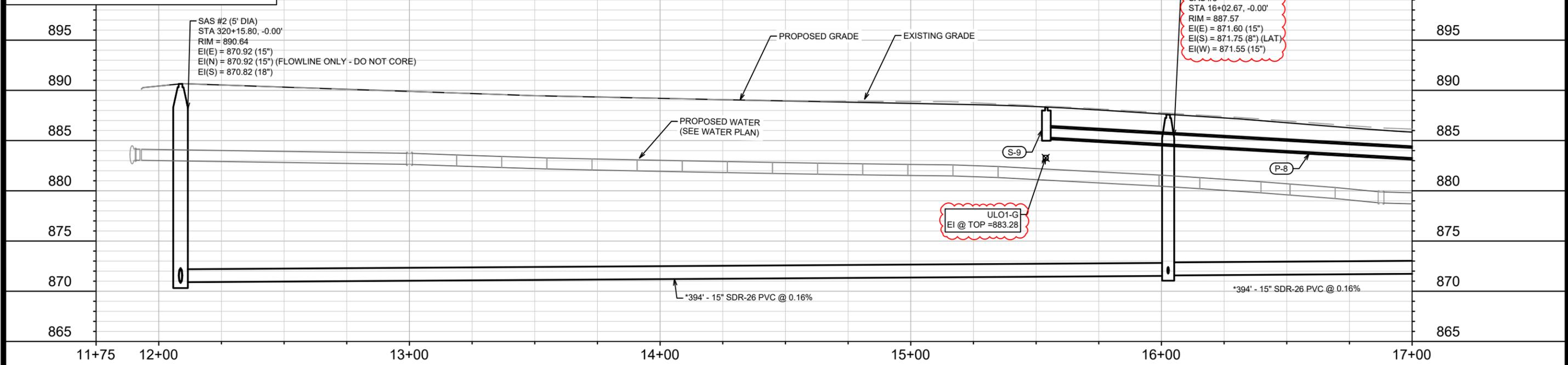


** SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM F679 SPECIFICATION FOR PS-115

* 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



11+75	12+00	13+00	14+00	15+00	16+00	17+00
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UTILITY TRENCH PATCH TYPE III TO MATCH EXISTING PAVEMENT STRUCTURE PER DANE CO. HIGHWAYS REQUIREMENTS - 5" HMA (MT 58-28 S) ON 6" OF 1-1/4" DENSE AGG. ON 12" OF 3" DENSE BASE AGGREGATE

SEE SHEETS P-7 & P-8 FOR APPROXIMATE EXTENTS OF MILL & OVERLAY

LOT 1
CSM No. 11164

LOT 1
CSM No. 5392

LOT 2
CSM No. 5392

REVISION #4: 3/16/2026:
1. ULO DATA ADDED, LATERALS & WATER SERVICE ON LUDS LN REVISED

SAS #3
STA 16+02.67, -0.00'
RIM = 887.57
EI(E) = 871.60 (15")
EI(S) = 871.75 (8") (LAT.)
EI(W) = 871.55 (15")

ULO1-G
EI @ TOP = 883.28

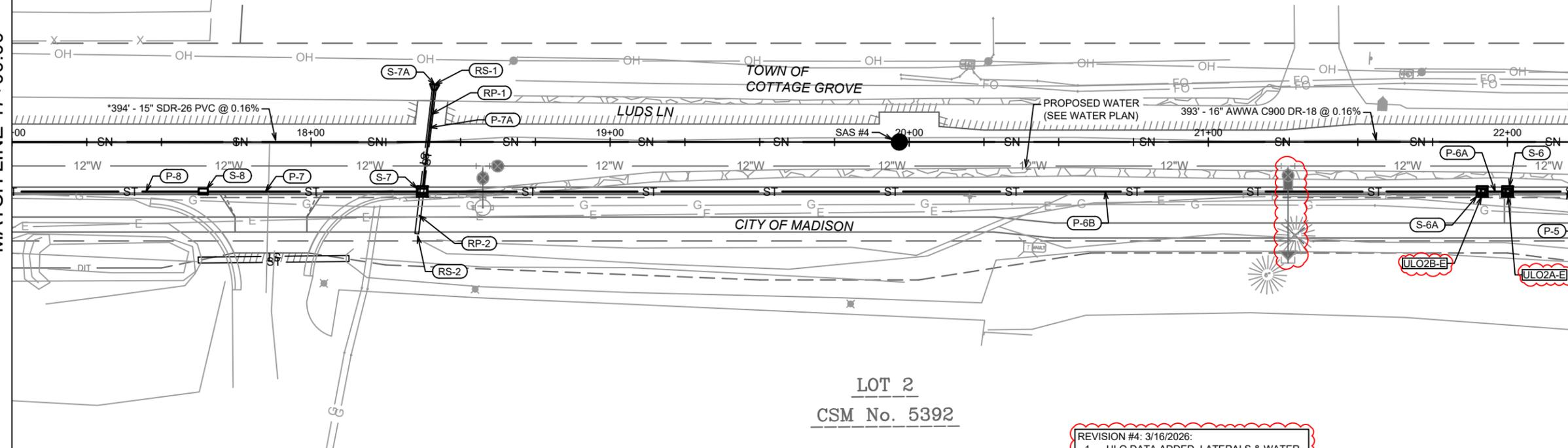
14950	MADISON, WI	9481	U-3												
SEWER PLAN & PROFILE - LUDS LN		LUDS LN & FEMRITE DR CSM													
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<table border="1"> <tr> <th>MARK</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td>4</td> <td>ULOS ADDED</td> <td>3/16/26</td> <td>EAC</td> </tr> <tr> <td>3</td> <td>SAS #1 RELOCATED</td> <td>6/6/25</td> <td>EAC</td> </tr> </table>				MARK	REVISION	DATE	BY	4	ULOS ADDED	3/16/26	EAC	3	SAS #1 RELOCATED	6/6/25	EAC
MARK	REVISION	DATE	BY												
4	ULOS ADDED	3/16/26	EAC												
3	SAS #1 RELOCATED	6/6/25	EAC												
<p>Designed By: IO</p> <p>Date: 3/16/2026 9:15 AM</p> <p>Scale: 1" = 40'</p>		<p>Contract No: 14950</p>													

MATCH LINE 17+00.00

MATCH LINE 22+25.00

LOT 2
CSM No. 11164

LOT 2
CSM No. 5392

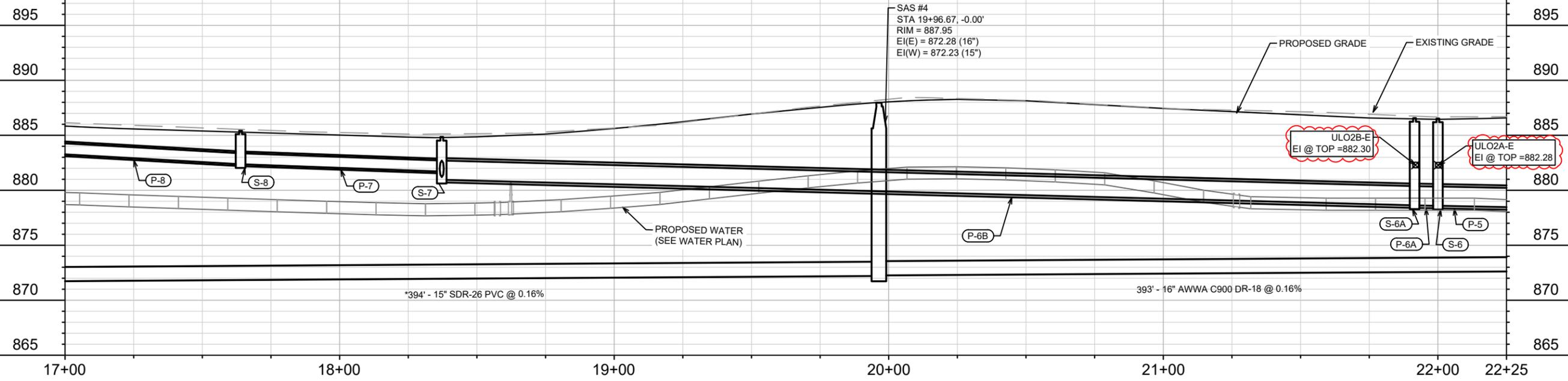


* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

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

REVISION #4: 3/16/2026:
1. ULO DATA ADDED, LATERALS & WATER SERVICE ON LUDS LN REVISED



MARK	ULOS ADDED	EAC	BY
DATE	3/16/26		
DESIGNED BY	14950	DATE	3/16/2026 9:15 AM
SCALE	1" = 40'		
CONTRACT NO.	9481		
PROJECT NO.	14950		
U-4			

14950
MADISON, WI
CONTRACT NO: 9481

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

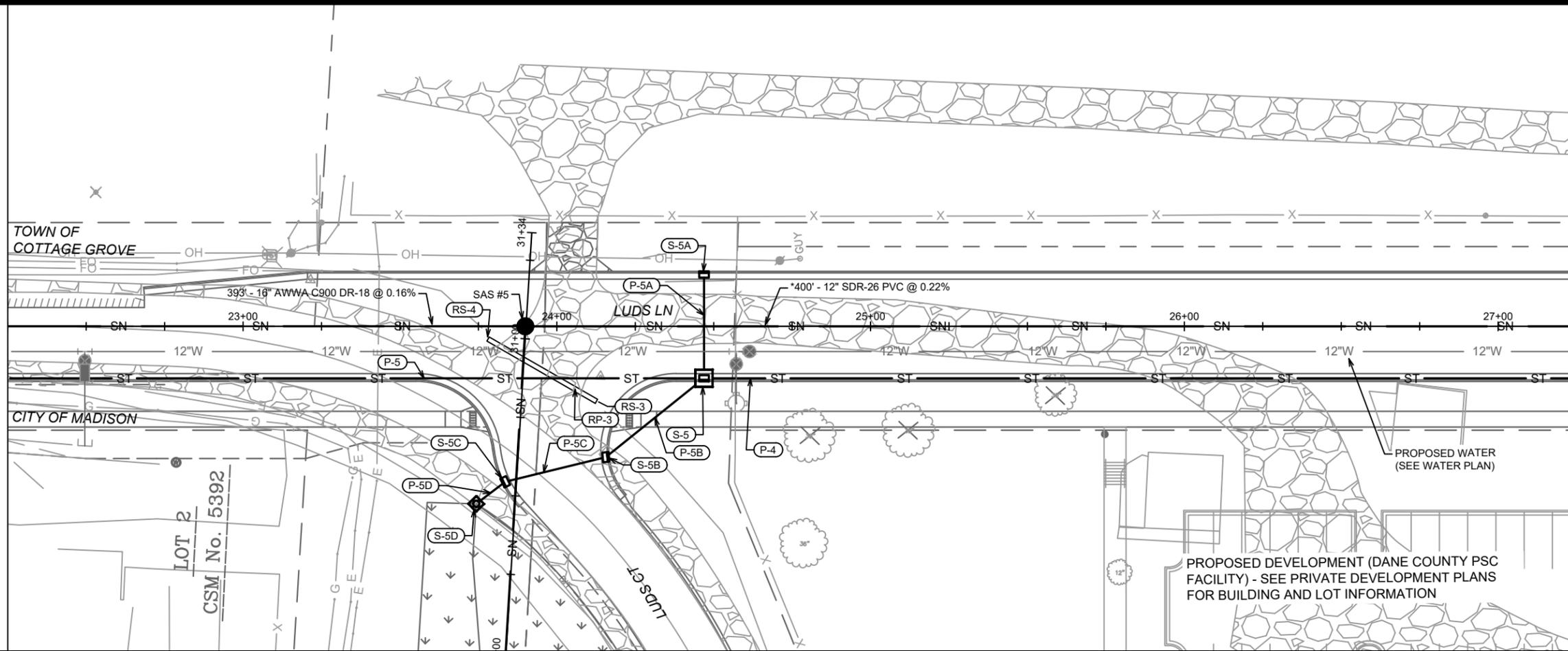


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U-4

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MATCH LINE 22+25.00

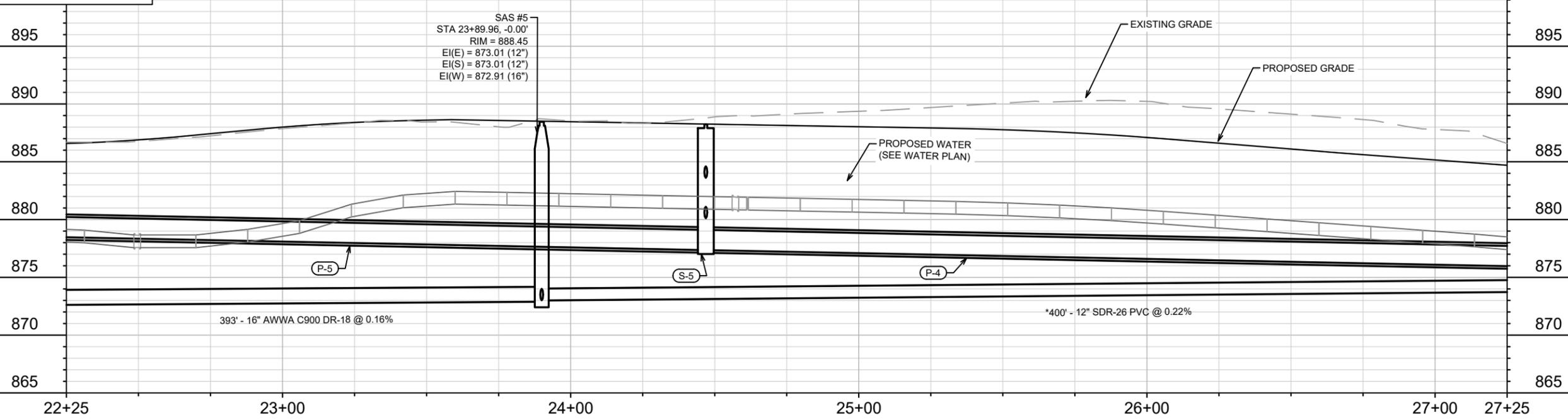
MATCH LINE 27+25.00



* 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



MARK	REVISION	DATE	BY
14950	10/21/2024	10:51 AM	U-5

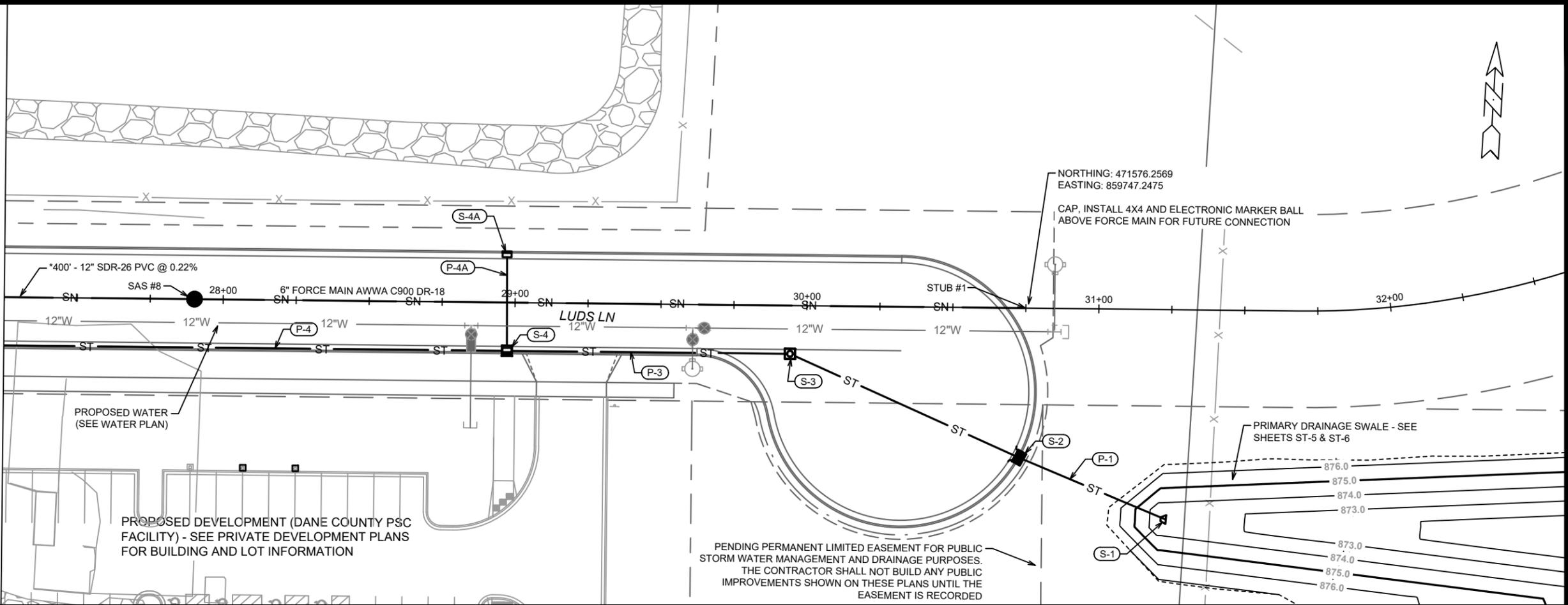
14950
MADISON, WI
CONTRACT NO: 9481

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

MARK	REVISION	DATE	BY
14950	10/21/2024	10:47 AM	U-6

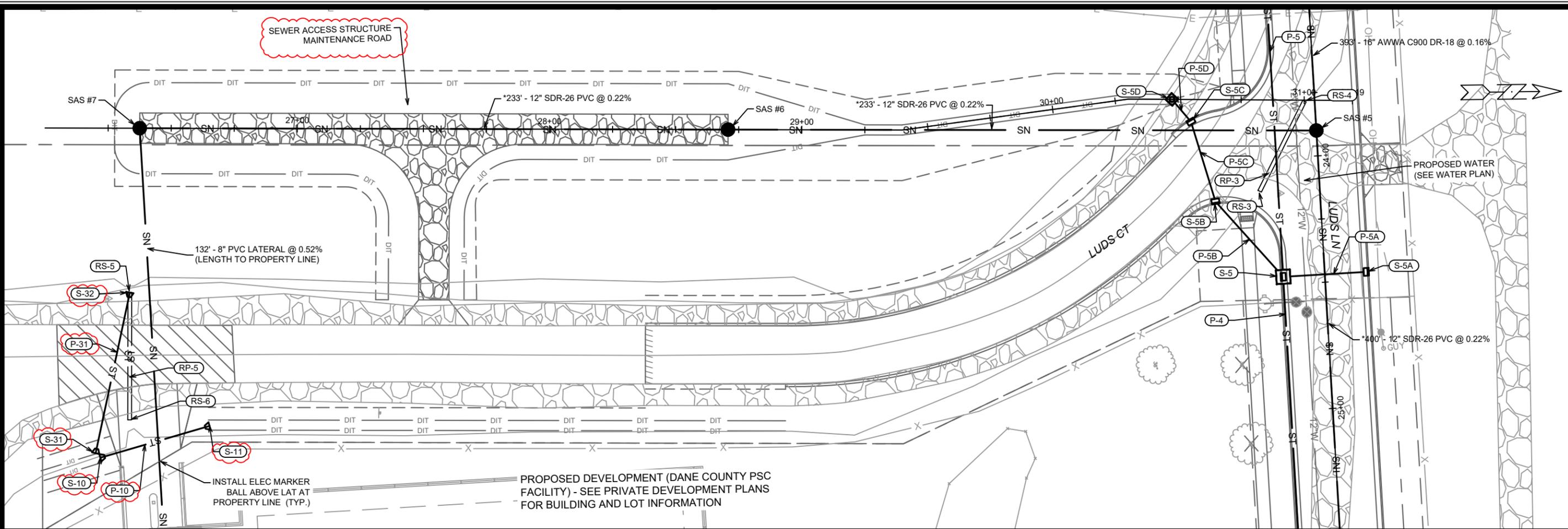
14950
MADISON, WI
CONTRACT NO: 9481

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



14950
U-6

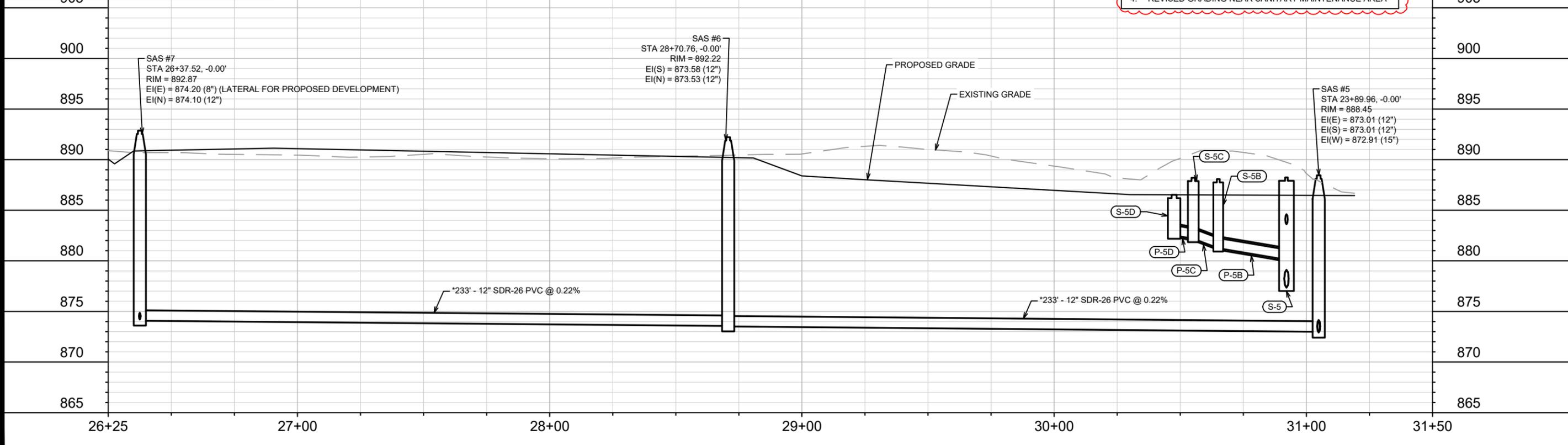
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* SEWER MAIN AND LATERALS SHALL CONFORM TO ASTM D3034 SPECIFICATION FOR SDR-26

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	14950	14950
MADISON, WI	12/2/24	EAC	BY
CONTRACT NO: 9481	REVISION	DATE	BY
14950	14950	14950	14950
U-7	U-7	U-7	U-7

SEWER PLAN & PROFILE - SANITARY MAINTENANCE PATH
 LUDS LN & FEMRITE DR CSM

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14950
U-7

SANITARY SEWER SCHEDULE

φ REVISION 3 - 6/5/2025 EAC
Ω REVISION 4 - 3/16/2026 EAC

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

φ SAS #1	317+01.30	CL	885.98	870.14	15.84	[2]
SAS #2	320+15.80	CL	890.64	870.82	19.82	[2]; [3]; 5' DIA.

LUDS LN

Ω SAS #3	16+02.67	CL	887.57	871.55	16.02	[2]; [8]
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

φ EX SAS 7963-002	SAS #1	869.61	870.14	263	0.20	18"	PS-115; [1]
φ SAS #1	SAS #2	870.19	870.82	314	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.
- Ω [8] CONNECT 8" PVC LATERAL FROM DANE COUNTY MEDICAL EXAMINER & HIGHWAY FACILITY, EI(S) = 871.75

STORM SEWER SCHEDULE

- REVISION 1 - 12/2/2024 EAC
- ⊕ REVISION 3 - 6/5/2025 EAC
- ⊖ REVISION 4 - 3/16/2026 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-1878-B7G
● 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	18+41.34	LT-19.19	15" CMP END	-	
RS-2	UNMARKED END	18+35.35	RT-30.57	15" CMP END	-	
RS-3	UNMARKED END	24+12.62	RT-23.84	18" CPP END	-	
RS-4	UNMARKED END	23+78.08	RT-4.02	18" CPP END	-	
RS-7	UNMARKED END	16+94.66	RT-36.83	24" CPP END	-	
SANITARY MAINTENANCE PATH						
RS-5	UNMARKED END	26+33.76	RT-64.98	18" CPP END	-	
RS-6	UNMARKED END	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 REMOVAL	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+53.80	RT-16.06	GAS	TOP @ 883.28', PRIVATE UTILITY RELOCATED
⊖ ULO2A-E	22+00.14	RT-17.01	ELECTRIC	TOP @ 882.28', PRIVATE UTILITY RELOCATED
⊖ ULO2B-E	21+91.85	RT-16.92	ELECTRIC	TOP @ 882.30', PRIVATE UTILITY RELOCATED

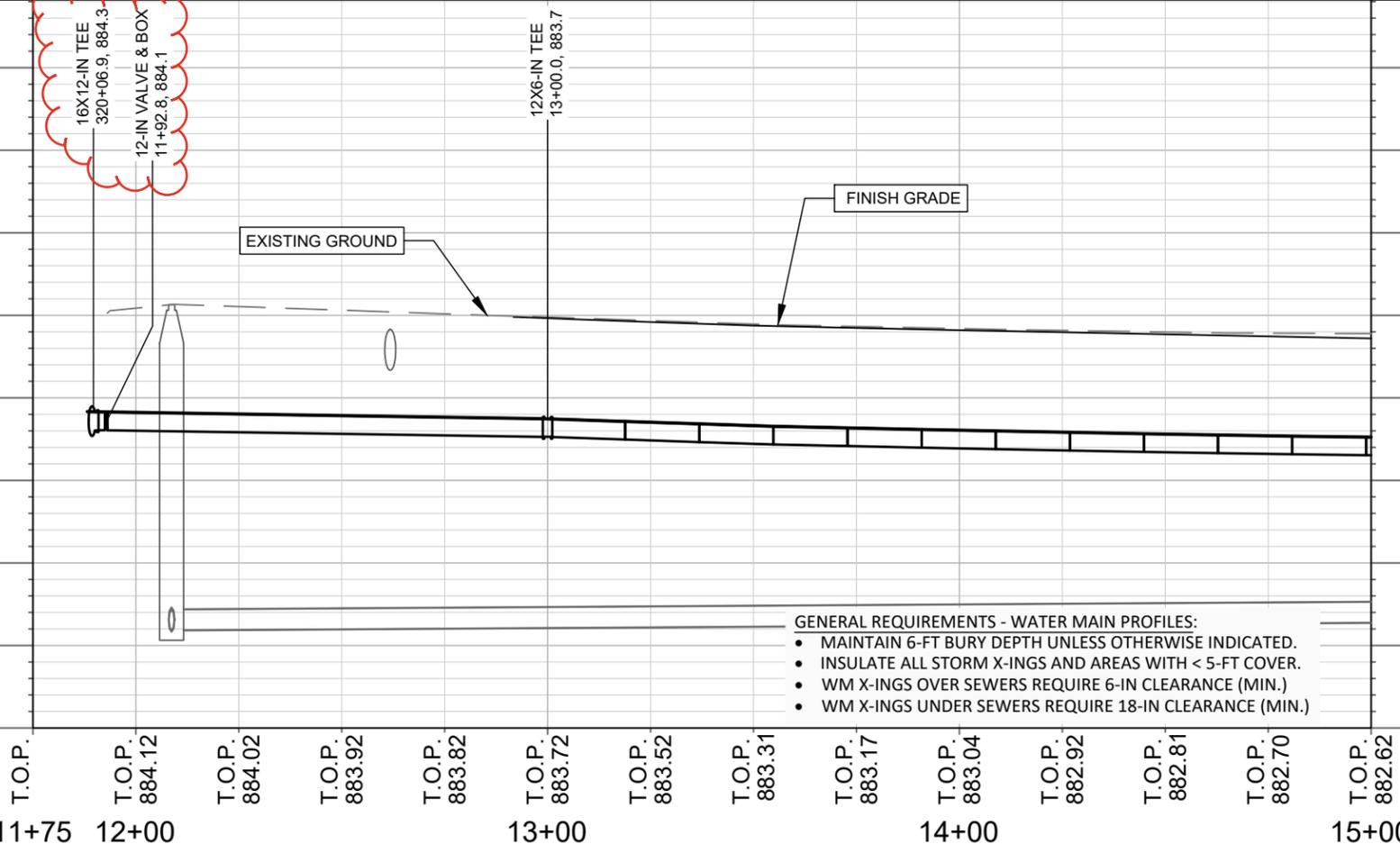
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL ECEVALU@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.

REVISION 3: 2025-06-06 TDP
 REVISED WATER ALIGNMENT

11+00

STA. 11+89.4, 8.0' RT
 16X12-IN TEE W/ PLUG

STA. 11+92.8, 8.0' RT
 12-IN VALVE & BOX



- 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.)

COUNTY HWY AB

UTILITY TRENCH PATCH TYPE III
 PER S.D.D. 5.2.4

STA. 12+61.7, 8.0' RT
 EX. 24-IN STM. INV. @
 CROSSING 886.65' +/-

STA. 13+00.0, 8.0 RT
 12X6-IN TEE

STA. 13+00.0, 22.4 RT
 5-IN HYDRANT

STA. 13+00.0, 8.0 RT
 12X6-IN TEE

STA. 13+00.0, 12.0 RT
 6-IN VALVE & BOX

MATCH LINE STA. 15+00



MARK	REVISION	DATE	BY
14950	6/17/2025	11:59 AM	W-2

14950
 MADISON, WI
 CONTRACT NO: 9481

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



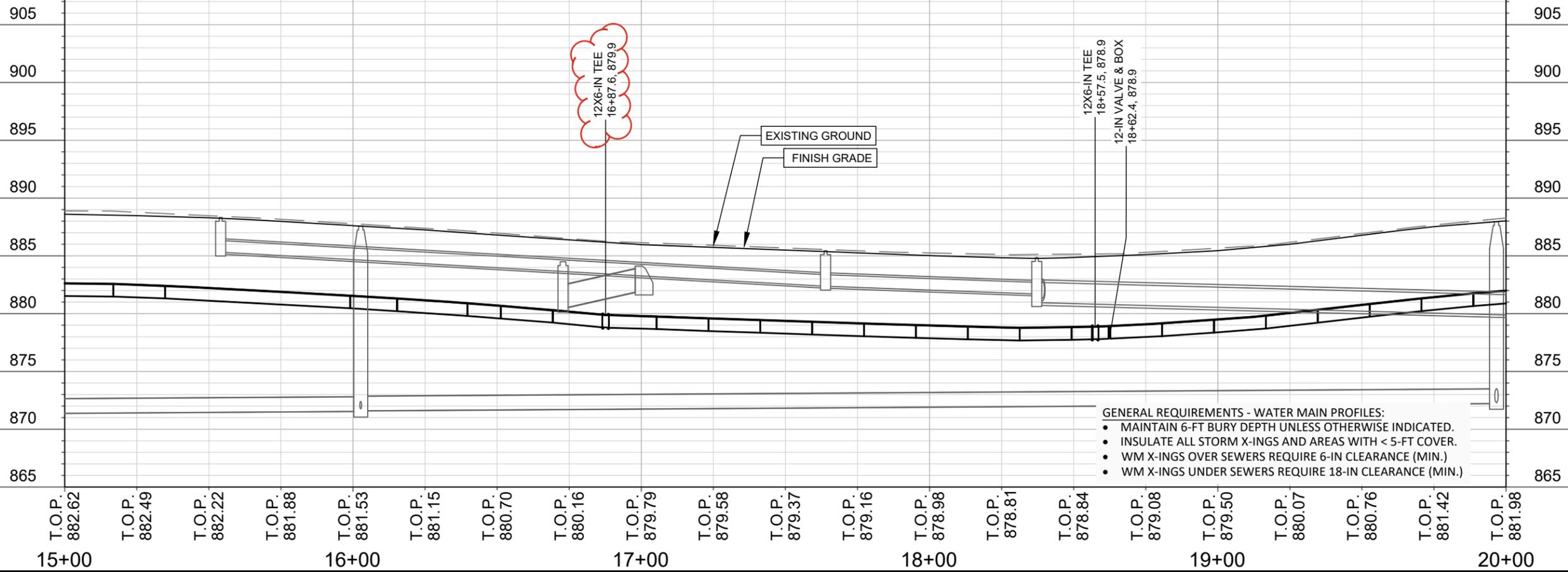
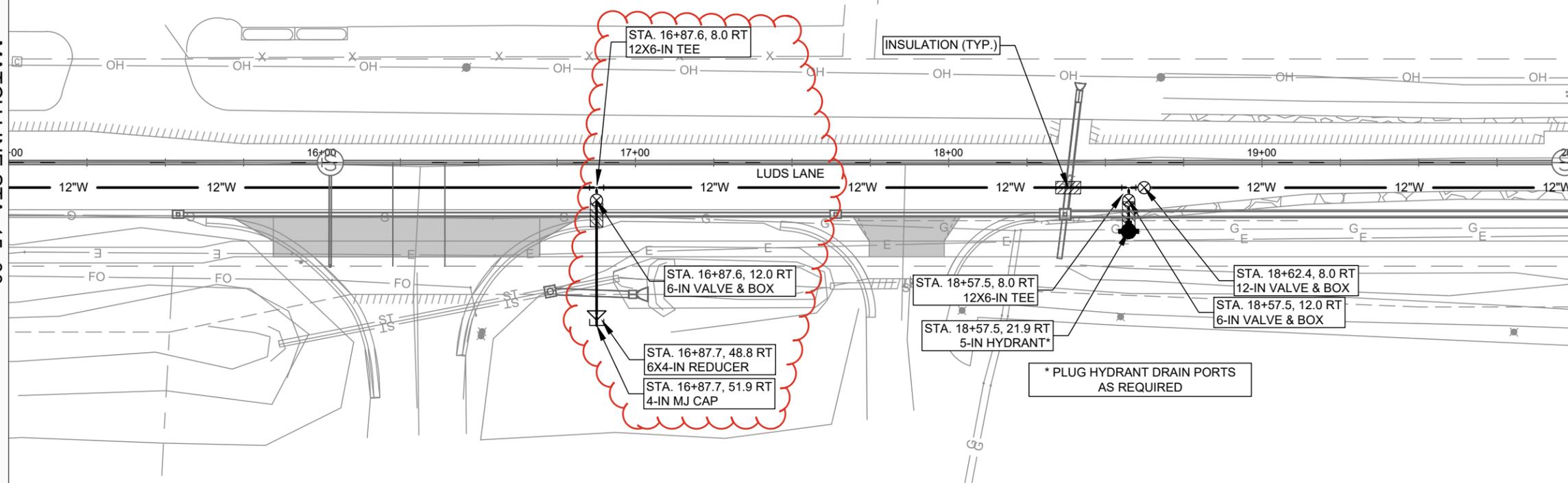
14950
 W-2

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REVISION 4:2026-03-16 TDP
REVISED WATER SERVICES

MATCHLINE STA. 15+00

MATCHLINE STA. 20+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	W-3	3/16/2026	TDP

14950
MADISON, WI
9481
CONTRACT NO:

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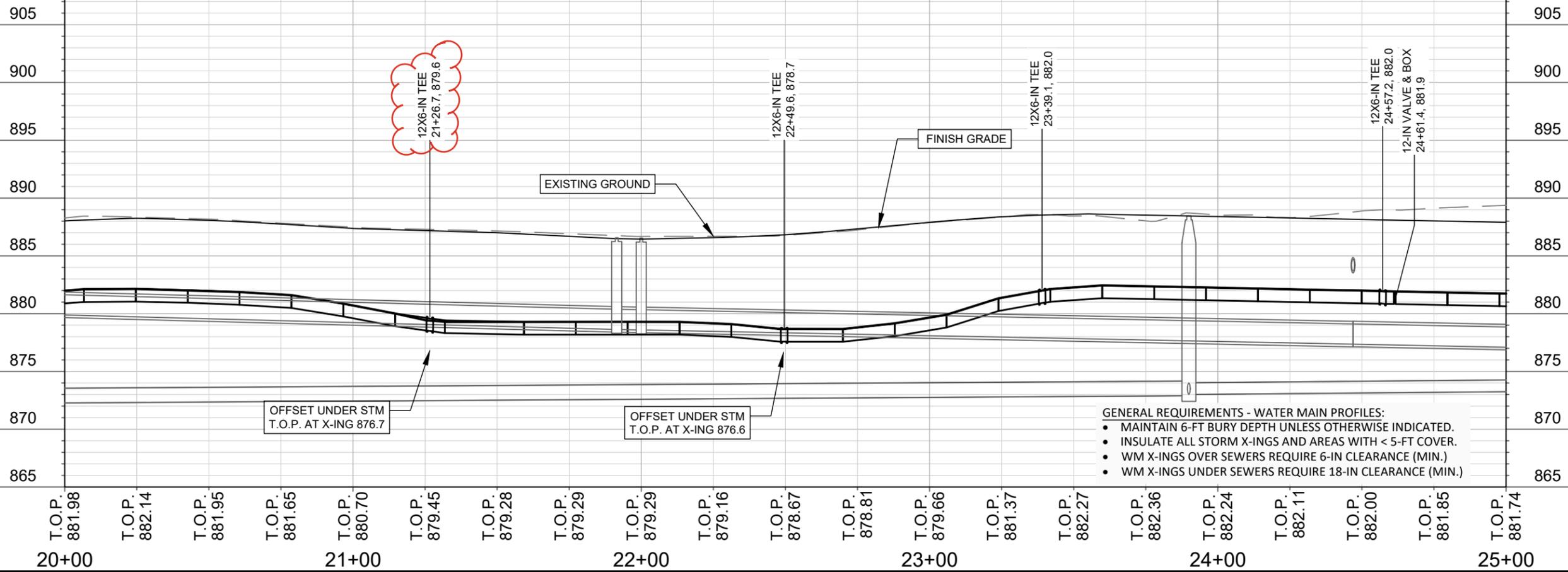
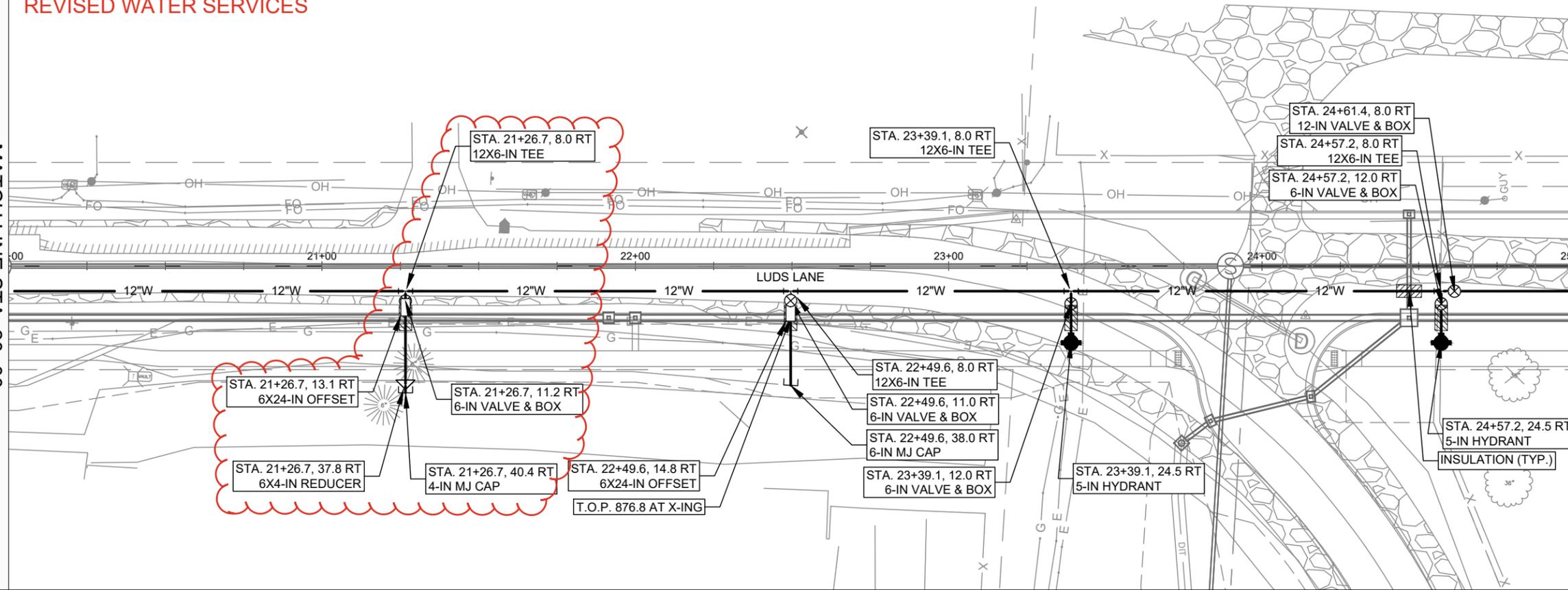


14950
W-3

REVISION 4:2026-03-16 TDP
REVISED WATER SERVICES

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.)

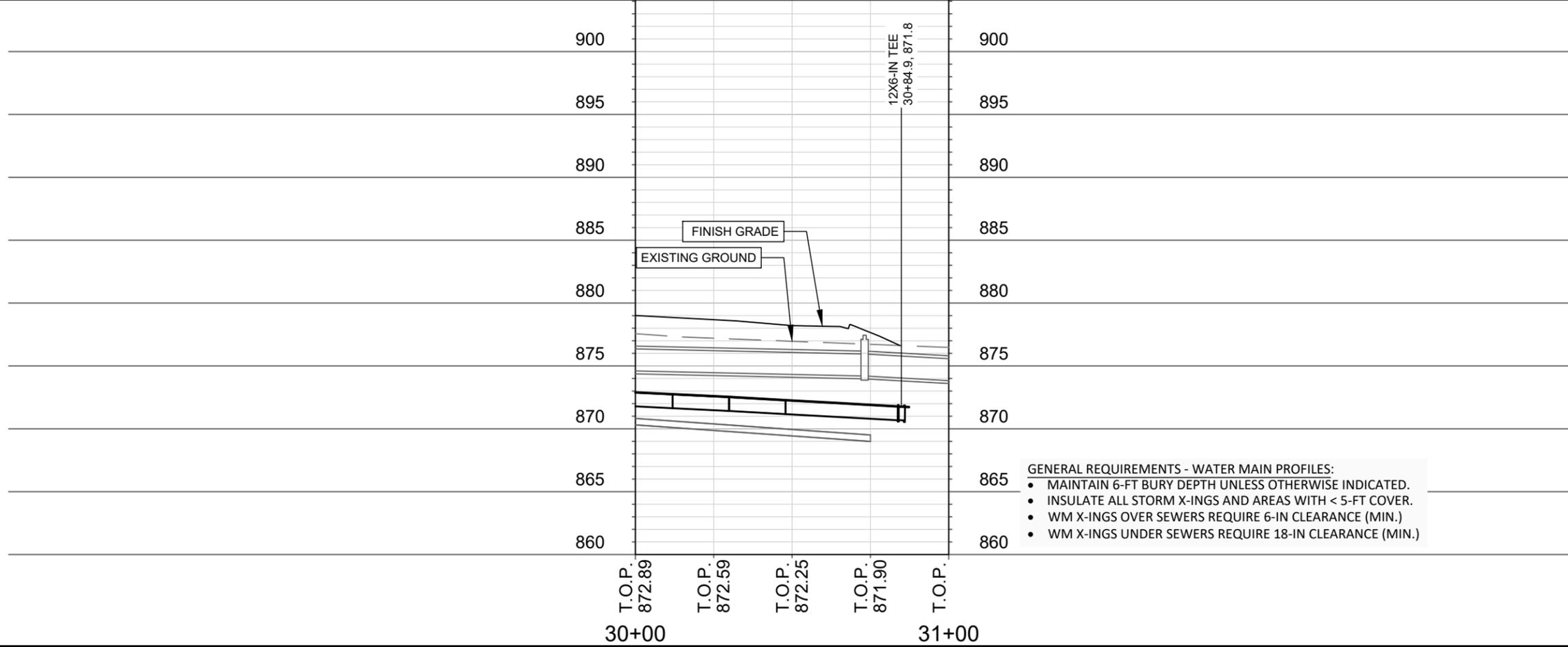
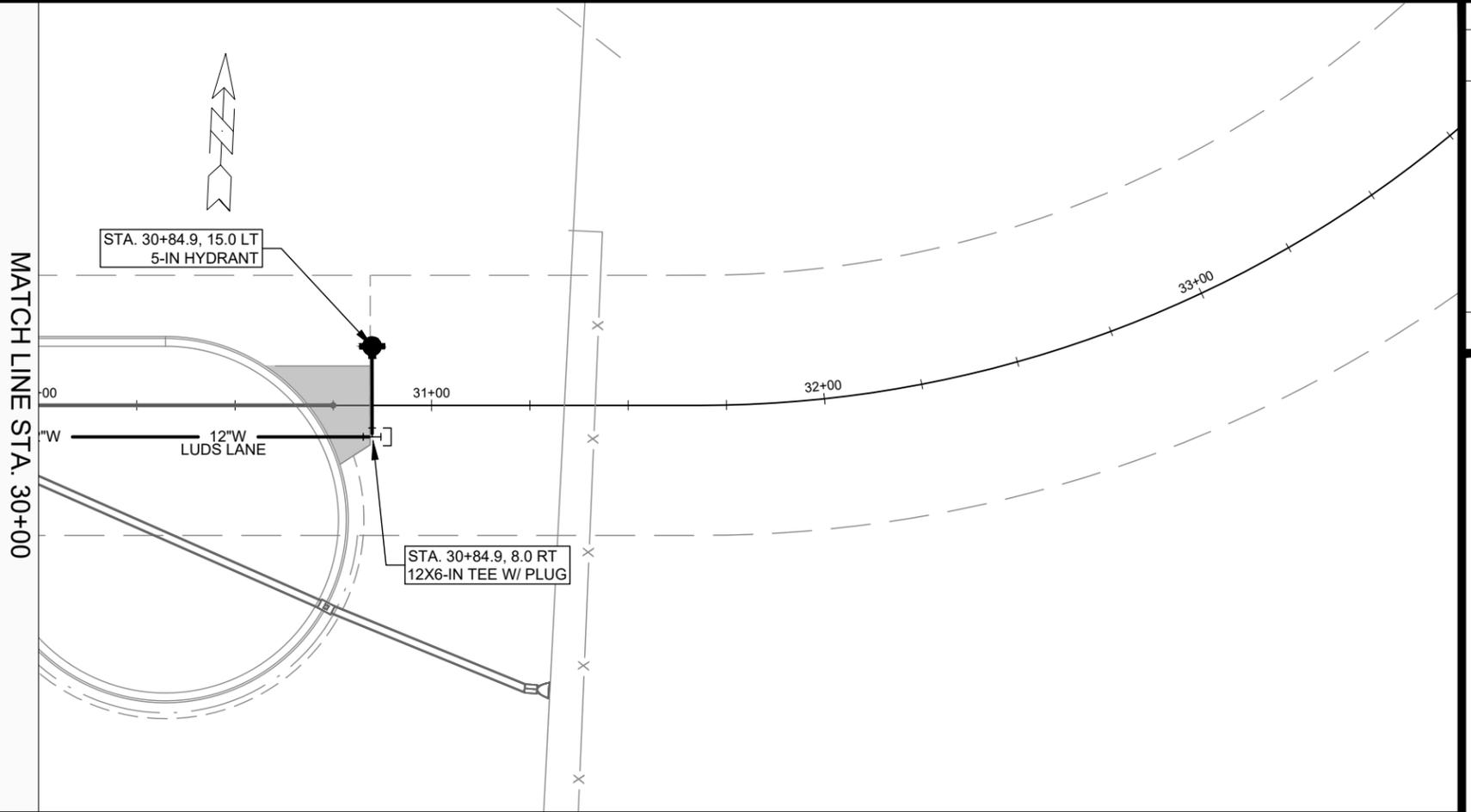
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14950	W-4	3/16/2026 6:26 AM	TDP

14950
MADISON, WI
CONTRACT NO: 9481

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



14950
W-4



- 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	TDP

14950
MADISON, WI
CONTRACT NO: 9481

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

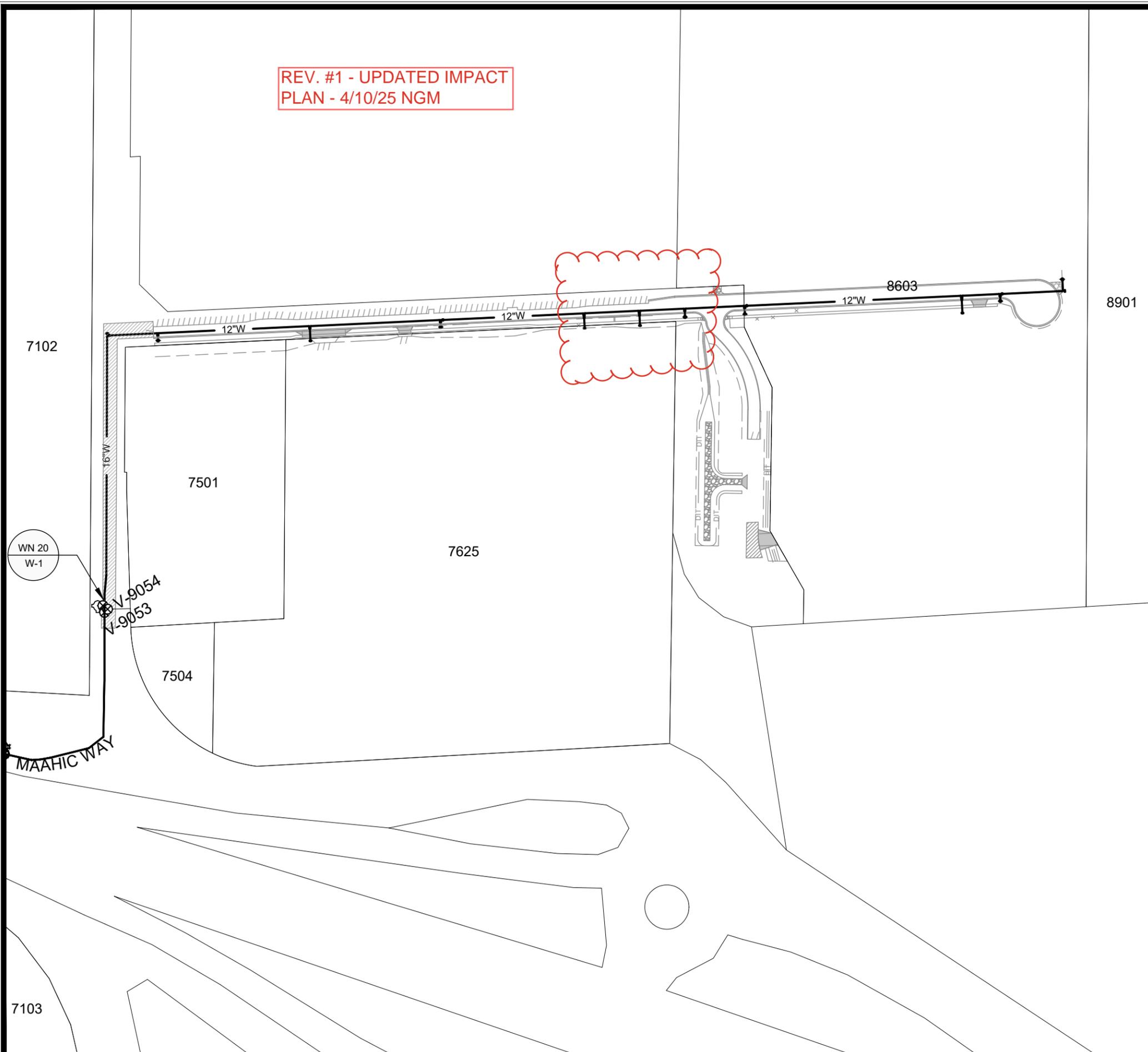
REV. #1 - UPDATED IMPACT
PLAN - 4/10/25 NGM



1" = 200'



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



MARK	REVISION	DATE	BY
14950	W-7	4/10/2025	2:24 PM

14950
MADISON, WI
CONTRACT NO: 9481

WATER IMPACT PLAN
LUDS LANE AND FEMRITE DRIVE CSM
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14950
W-7

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.

CONSTRUCTION NOTES:

1. 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.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.

- 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.

WATER UTILITY ULO SCHEDULE				
ULO	UTILITY	STATION	OFFSET	SHEET

REV. #1 - UPDATED MATERIALS - 4/10/25 NGM

***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	8	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	6	EACH
70101	FURNISH AND INSTALL STYROFOAM	12	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	9	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

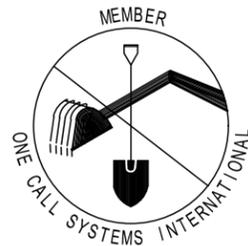
***ESTIMATE OF MATERIALS SALVAGED:**

12-IN MJ PLUG	1	EACH
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* 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

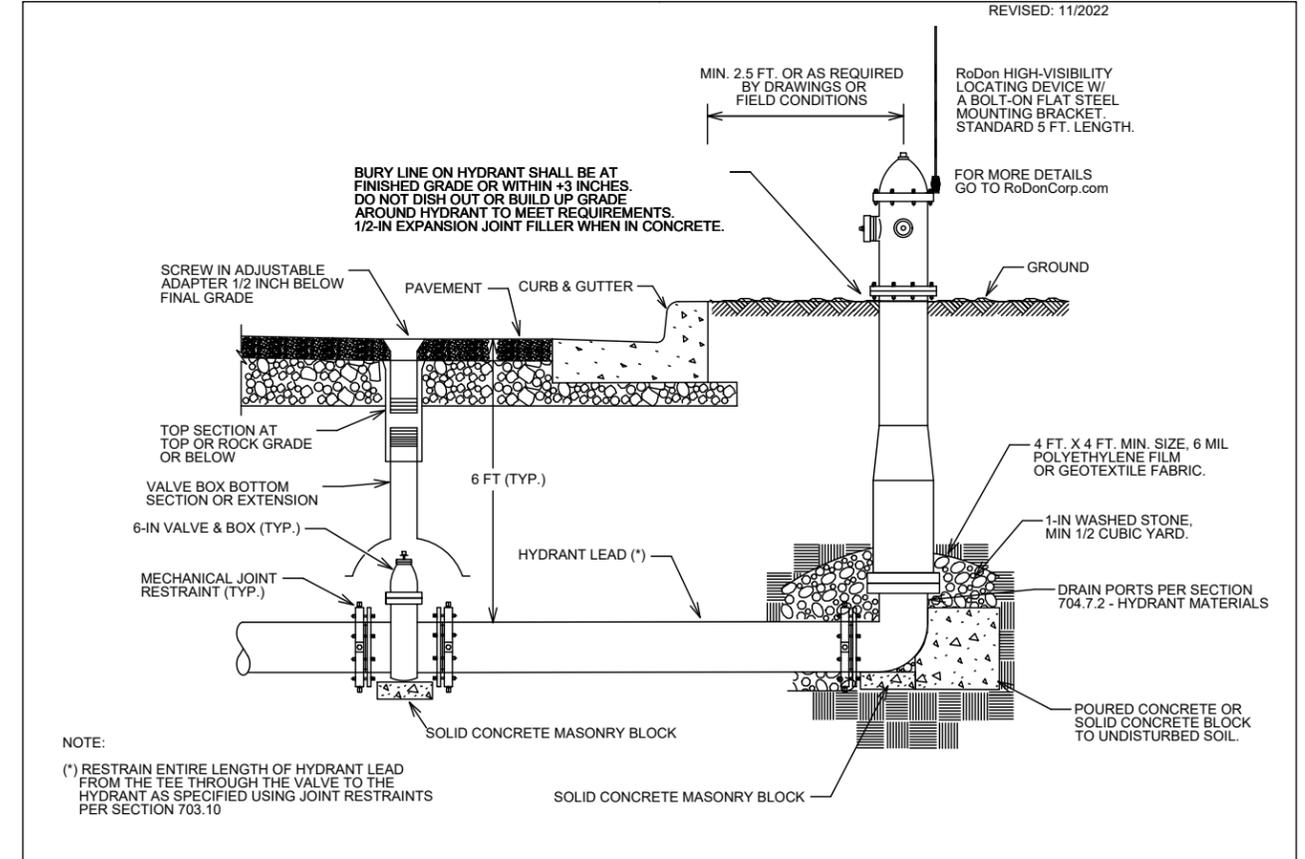
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



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
 REVISED: 11/2022



CITY OF MADISON
 WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

NO.	DATE	BY

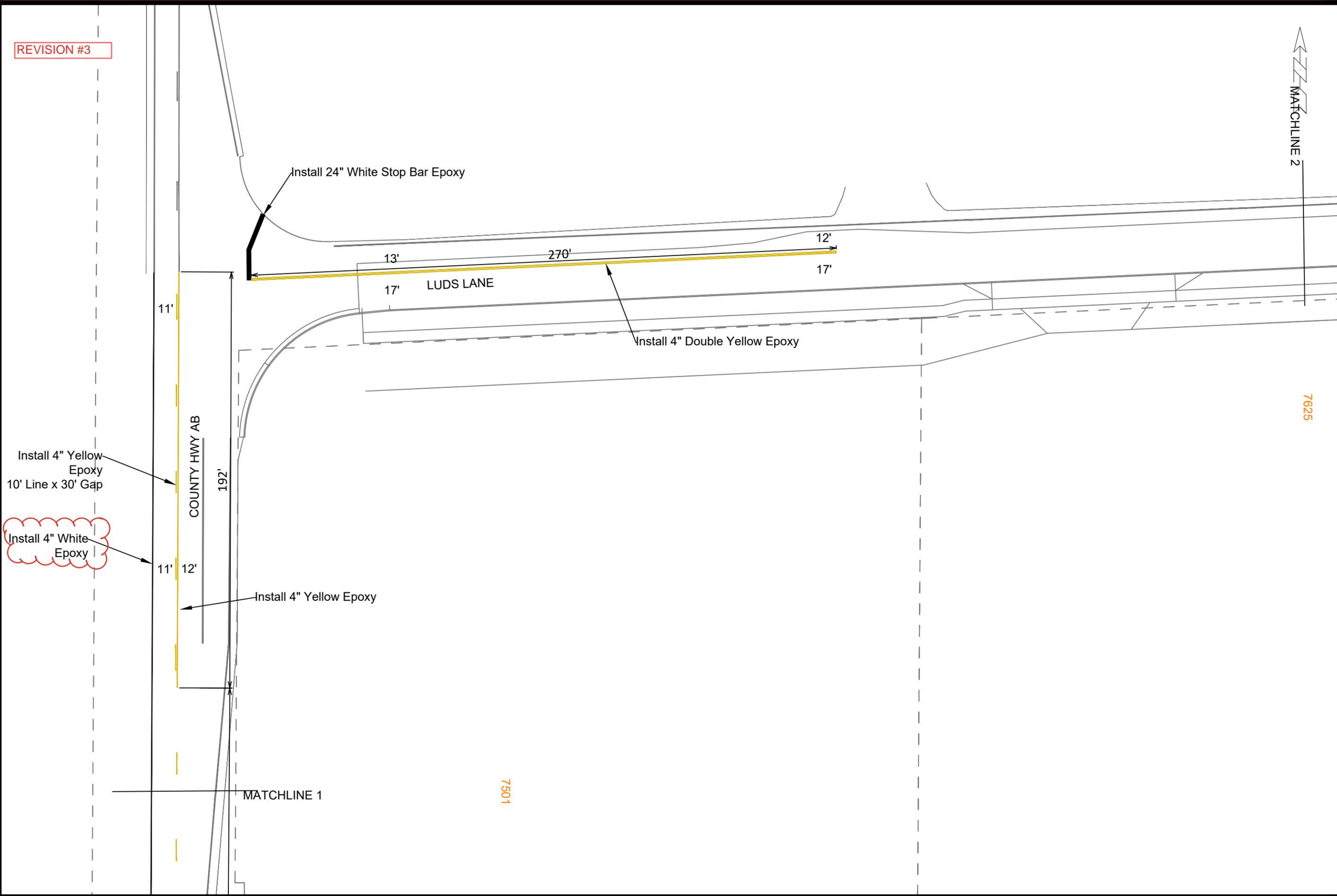
14950
 MADISON, WI
 9481
 CONTRACT NO:

WATER ESTIMATE OF MATERIALS
 LUDS LANE AND FEMRITE DRIVE CSM
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14950
 W-8

REVISION #3



MARK	REVISION	DATE	BY
14950		09/18/2024	

Designed By: CLP
Scale: 1:40
PM-2

14950
MADISON, WI
9481
CONTRACT NO:

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

REVISION #3

MATCHLINE 2

7625

LUDS LANE

Paving Limits

Install 4" White Epoxy

62'



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
14950	Designed By: CLP	Date: 09/18/2024	Scale: 1:40
			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



CREATE THE VISION TELL THE STORY

jsdinc.com

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

CLIENT:



WOLD ARCHITECTS
AND ENGINEERS
332 Wisconsin Street, Suite W2000
Stim, 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:

#	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
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

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

SHEET TITLE:
**NOTES &
SPECIFICATIONS**

SHEET NUMBER:

ST-1

JSD PROJECT NO: 22-11600



Toll Free (800) 242-8511

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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P. 608.848.5060

CLIENT:



WOLD ARCHITECTS
AND ENGINEERS
332 HILMWOOD STREET, SUITE 10200
SANDY, 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:

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

SHEET TITLE:

**NOTES &
SPECIFICATIONS**

SHEET NUMBER:

ST-2

JSD PROJECT NO: 22-11600





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AND ENGINEERS

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PROJECT:

**PUBLIC SAFETY
COMMUNICATIONS
PUBLIC IMPROVEMENTS**

PROJECT LOCATION:

**8301 LUDS LANE
MADISON, DANE COUNTY
WI, 53558**

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

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

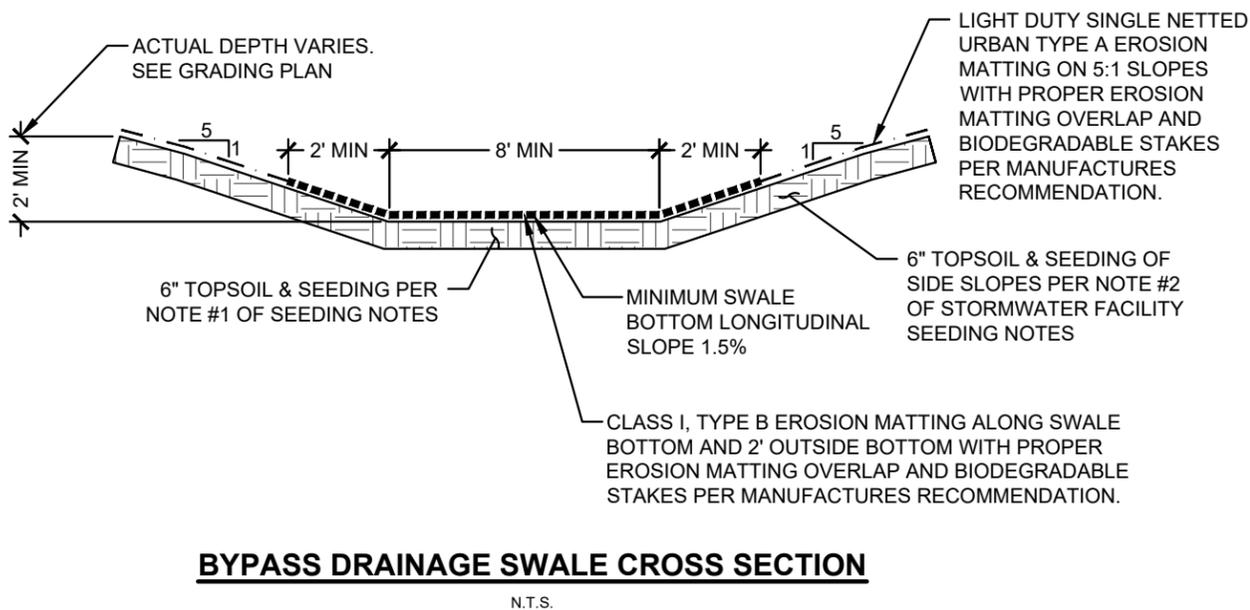
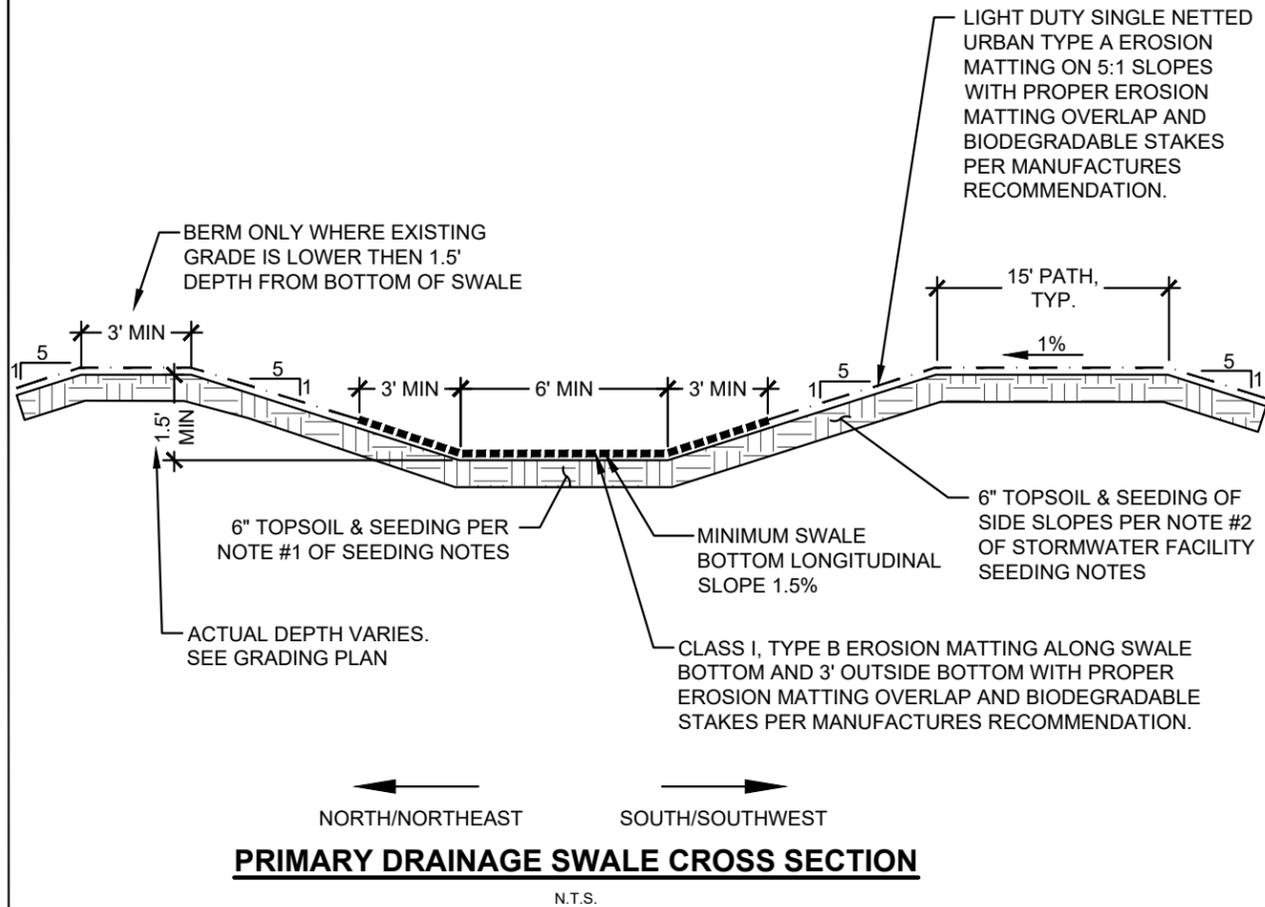
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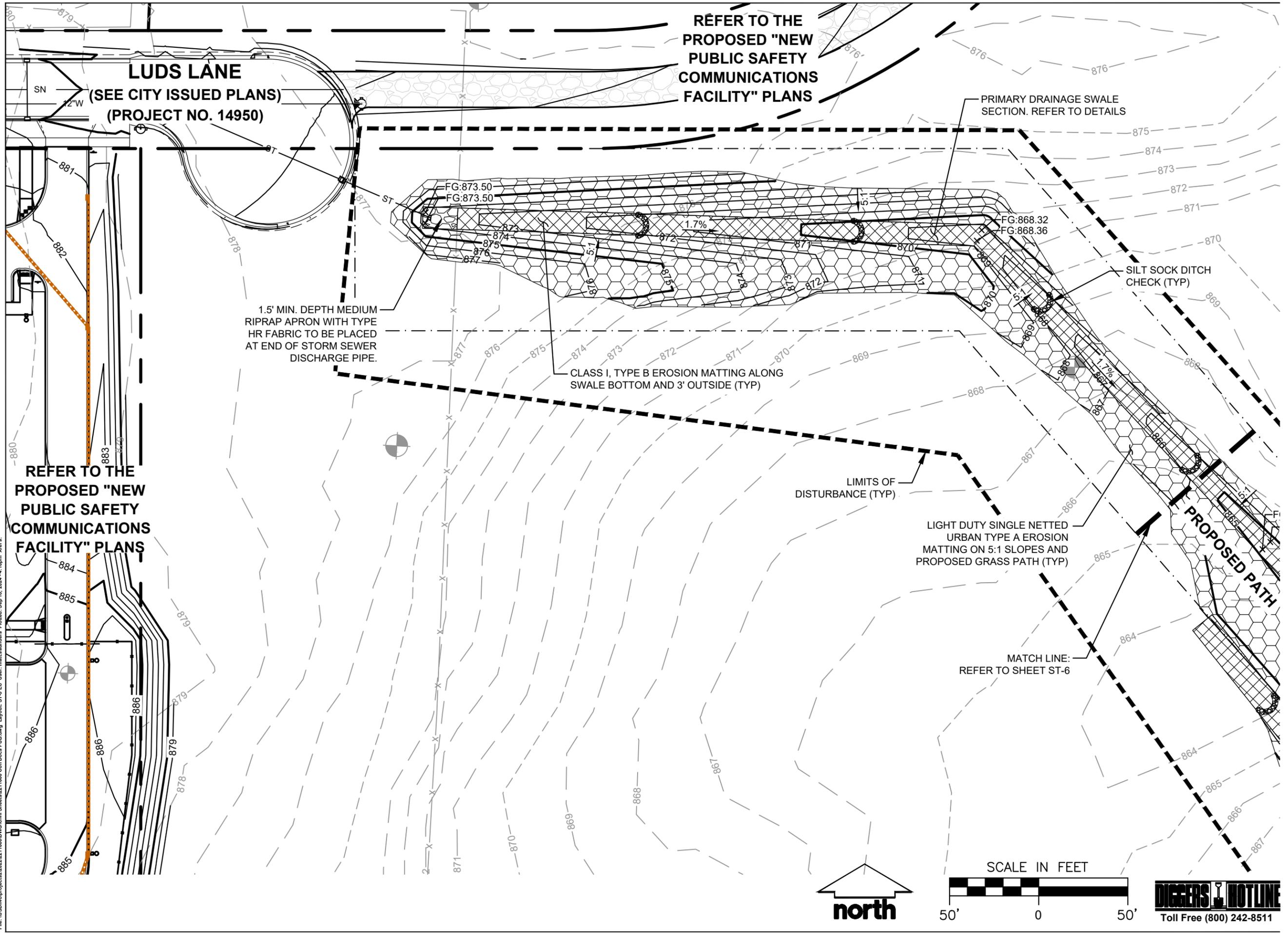
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JSD PROJECT NO: 22-11600

SEEDING NOTES

- SWALE BOTTOM SEED MIX: THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - "DETENTION BASIN SEED MIX" AS MANUFACTURED BY PRAIRIE NURSERY, WESTFIELD, WI. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - "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.
 - "RAINWATER RENEWAL MIX" AS MANUFACTURED BY AGRECOL LLC, EVANSVILLE, WI. SEED SHALL BE PLACED AT A RATE OF 8 LBS PER ACRE.
 - "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.
- 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.
 - AGRECOL - NATIVE SEED & PLANT NURSERY, P.O. BOX 306, WESTFIELD, WISCONSIN, 53964, TEL. 608-296-3679 (OR APPROVED EQUIVALENT).
 - 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.
- ALL OTHER DISTURBED AREAS SEED MIX:
 - 85% OF THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - "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.
 - "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.
 - "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.
 - "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.
 - 15% OF THE SEED MIX SHALL CONSIST OF ANY OF THE FOLLOWING OR APPROVED EQUAL:
 - "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.
 - "DIVERSE PRAIRIE FOR MEDIUM SOILS" AS MANUFACTURED BY PRAIRIE NURSERY, WESTFIELD, WI. SEED SHALL BE PLACED AT A RATE OF 10 LBS PER ACRE.
 - "BIRD & BUTTERFLY MIX" AS MANUFACTURED BY AGRECOL LLC, EVANSVILLE, WI. SEED SHALL BE PLACED AT A RATE OF 13 LBS PER ACRE.
- 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.
- VEGETATION ESTABLISHMENT IN WET BASIN AND ALL OTHER DISTURBED AREAS TO BE COMPLETED BY A CONTRACTOR WITH EXPERTISE IN NATIVE VEGETATION ESTABLISHMENT.





REFER 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)

MATCH LINE:
REFER TO SHEET ST-6

PROPOSED PATH

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



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P. 608.848.5060

CLIENT:



**WOLD ARCHITECTS
AND ENGINEERS**
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STAIN PAUL, MN 55101
wold.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

SHEET TITLE:
**GRADING & EROSION
CONTROL PLAN - NORTH**

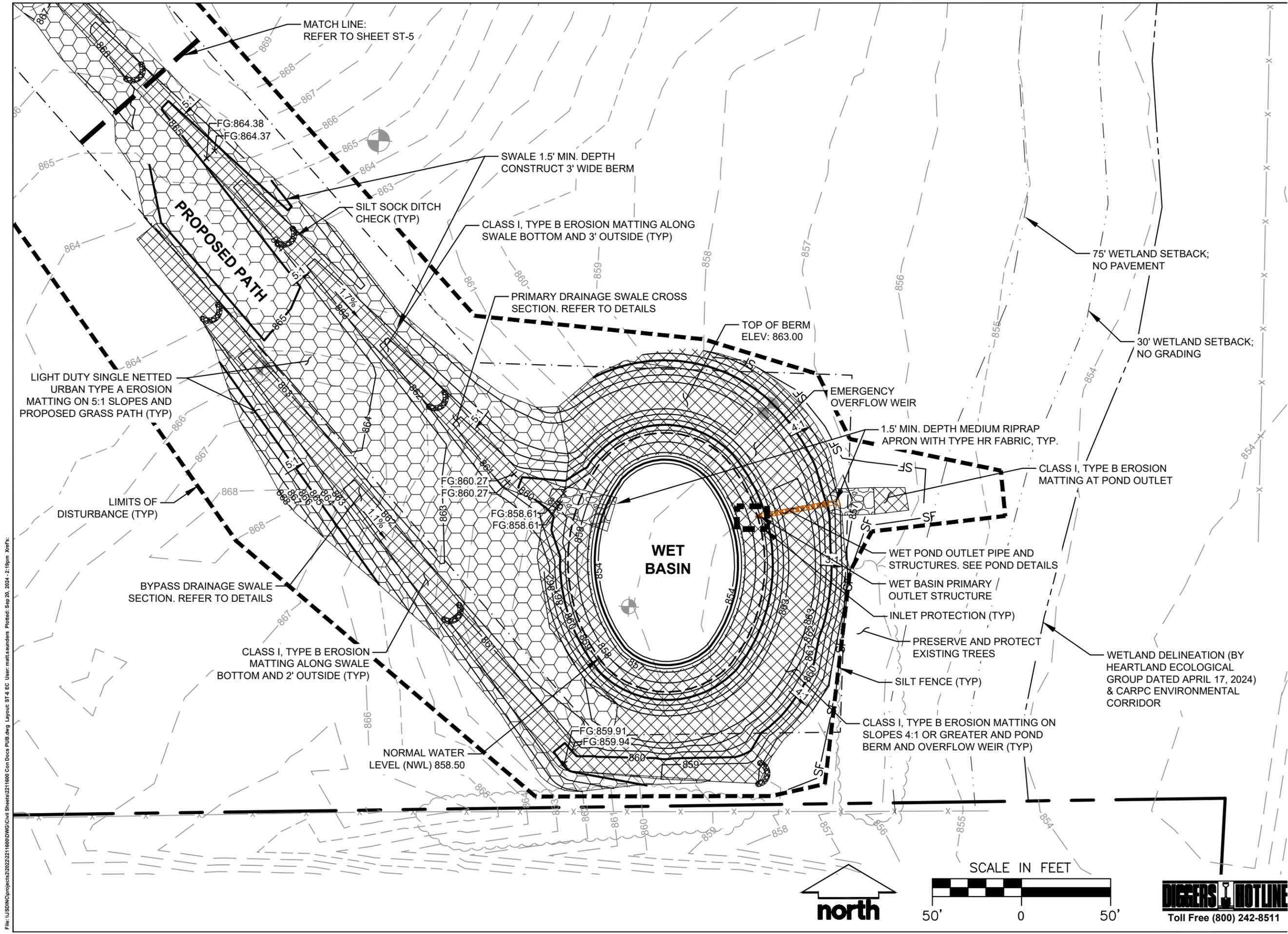
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ST-5

JSD PROJECT NO: 22-11600

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SAINTE PAUL, MN 55101
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PROJECT:
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PROJECT LOCATION:
**8301 LUDS LANE
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WI, 53558**

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Approved By: MSS

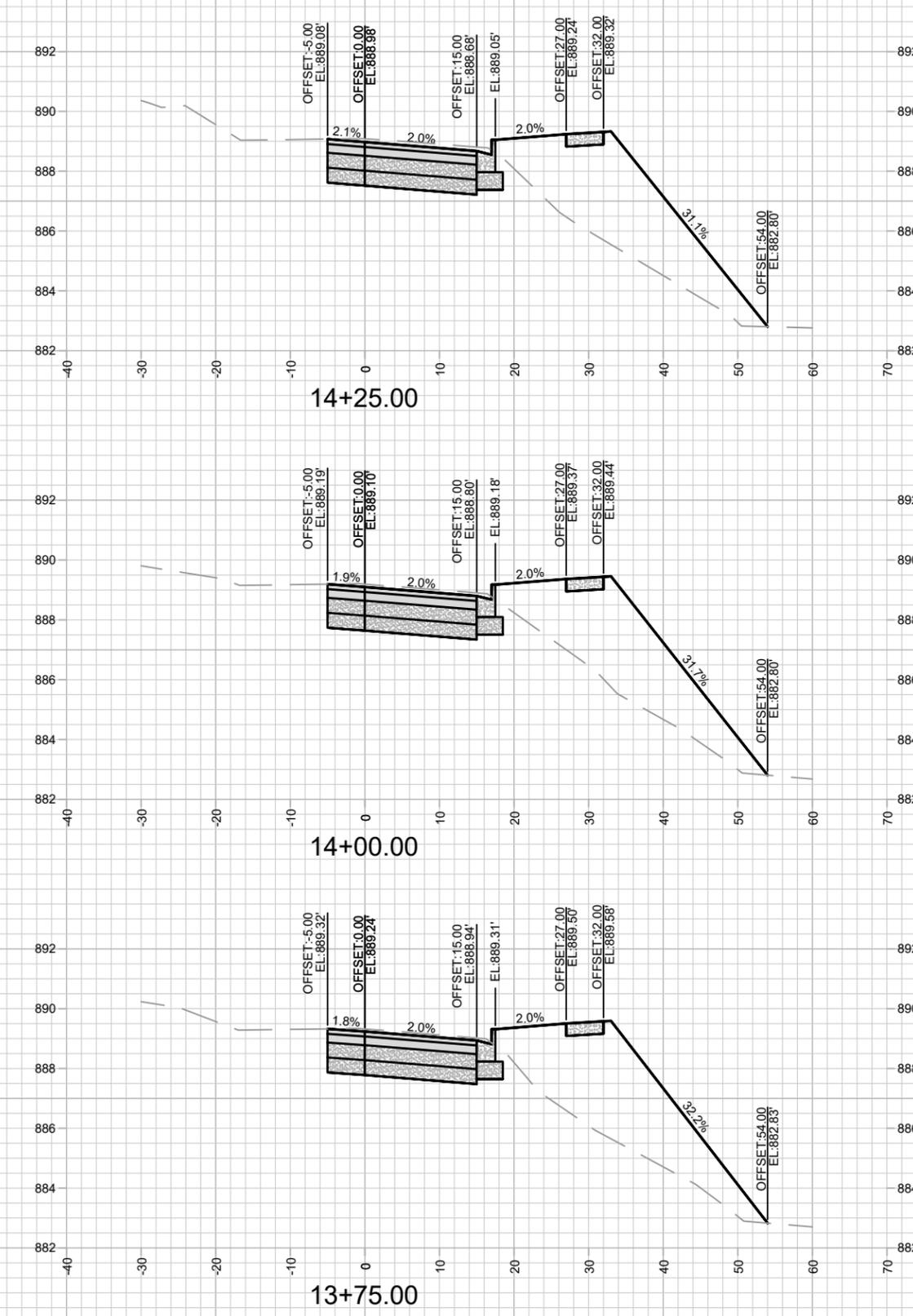
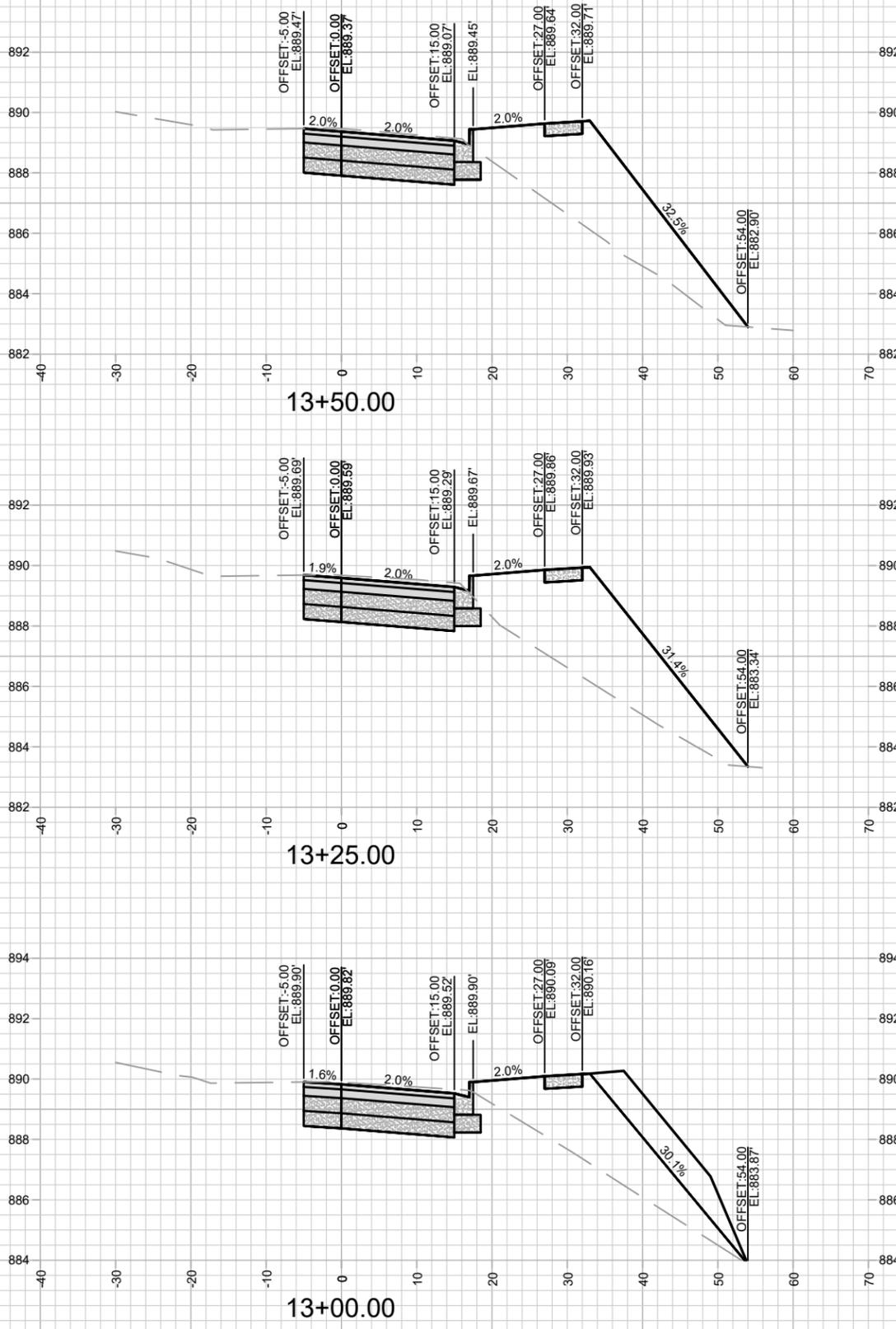
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GRADING & EROSION CONTROL PLAN - SOUTH

SHEET NUMBER:
ST-6

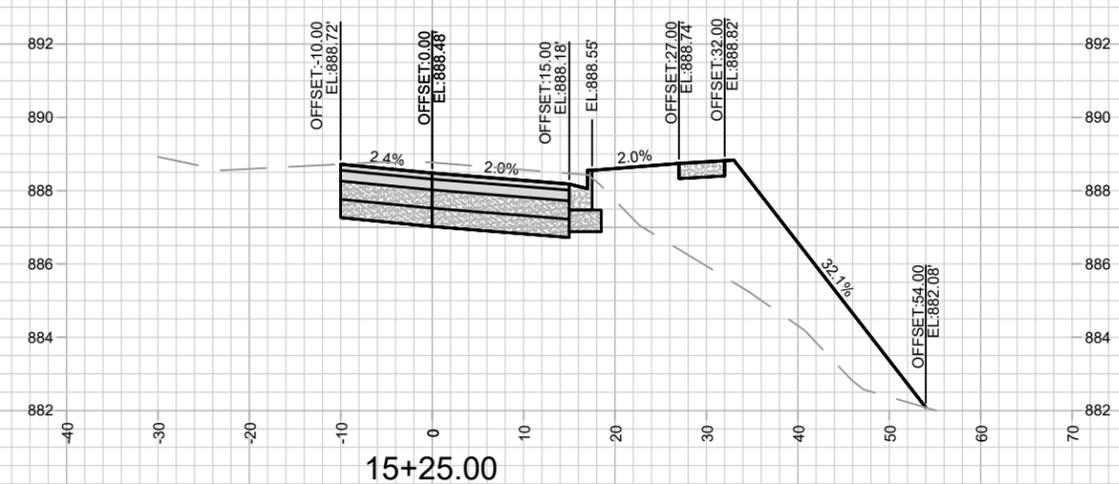
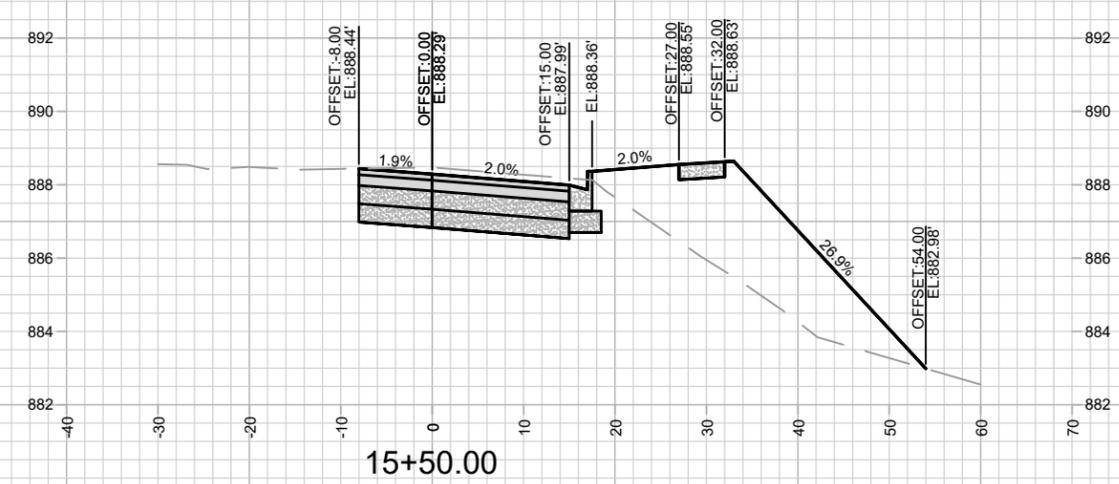
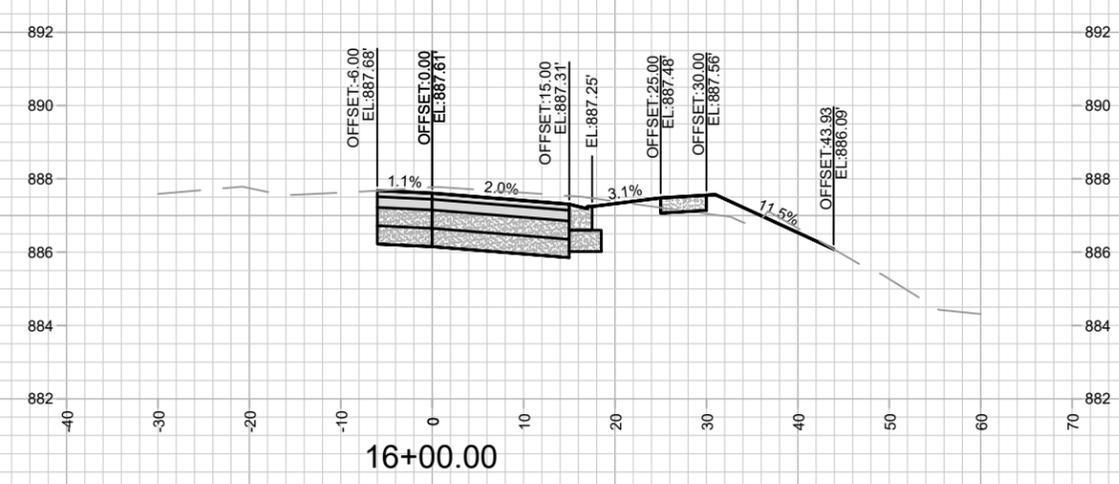
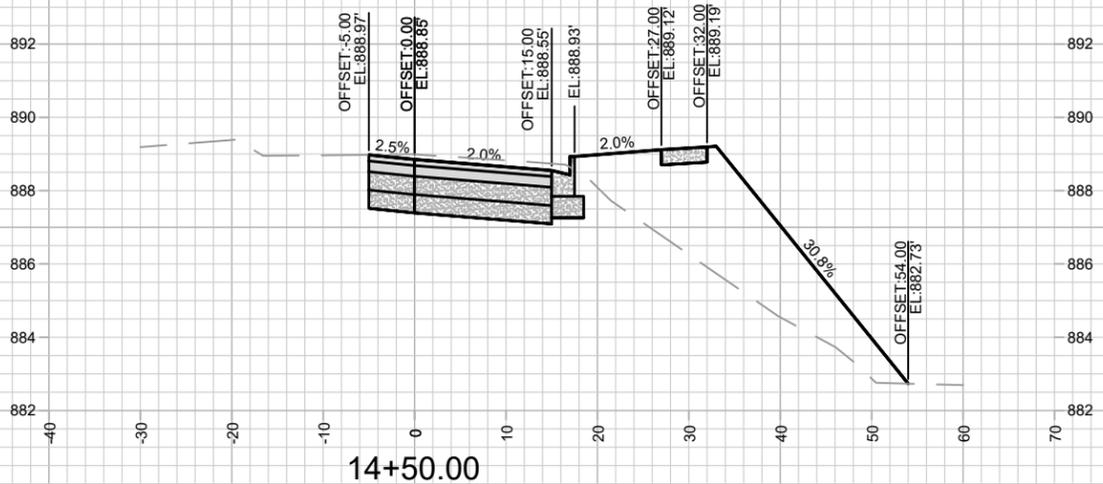
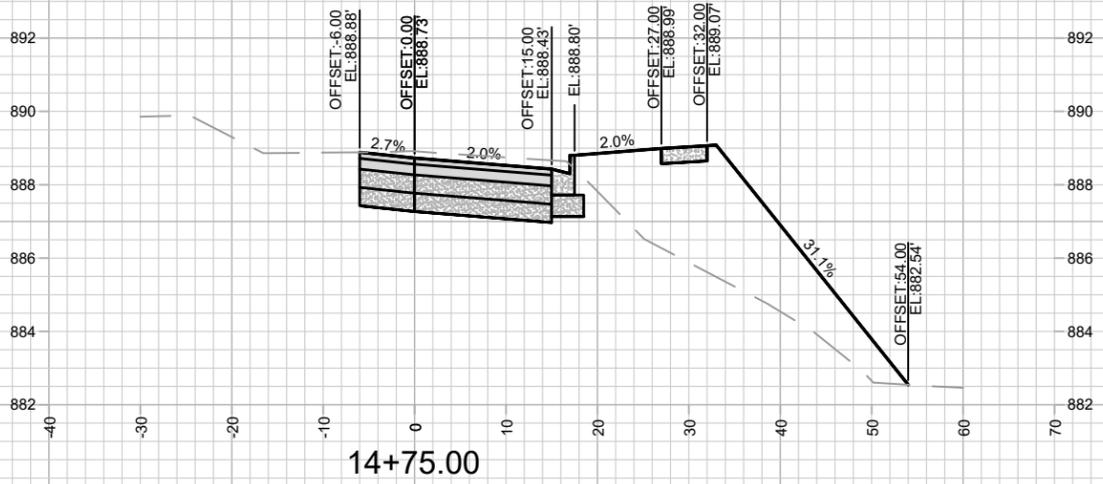
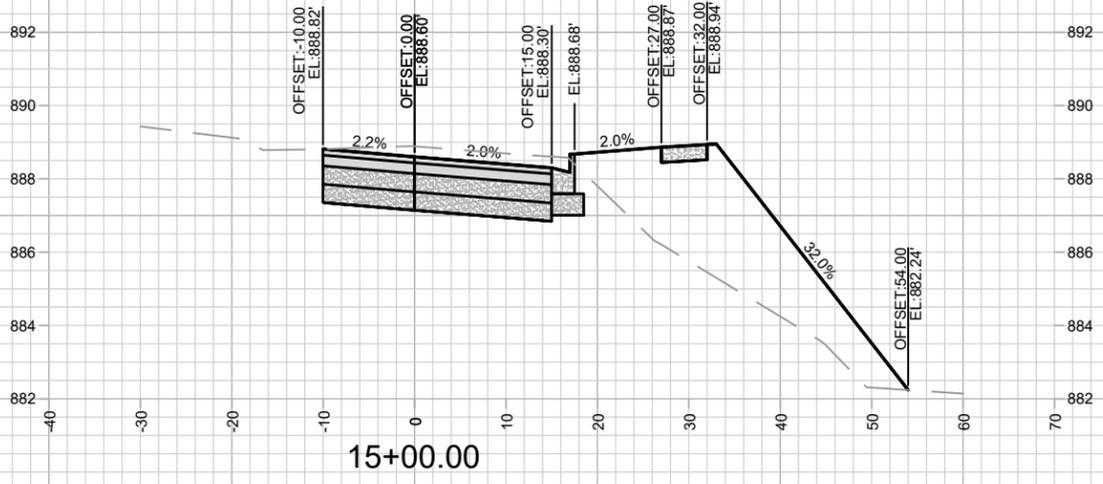
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14950 MADISON, WI		CONTRACT NO: 9481	
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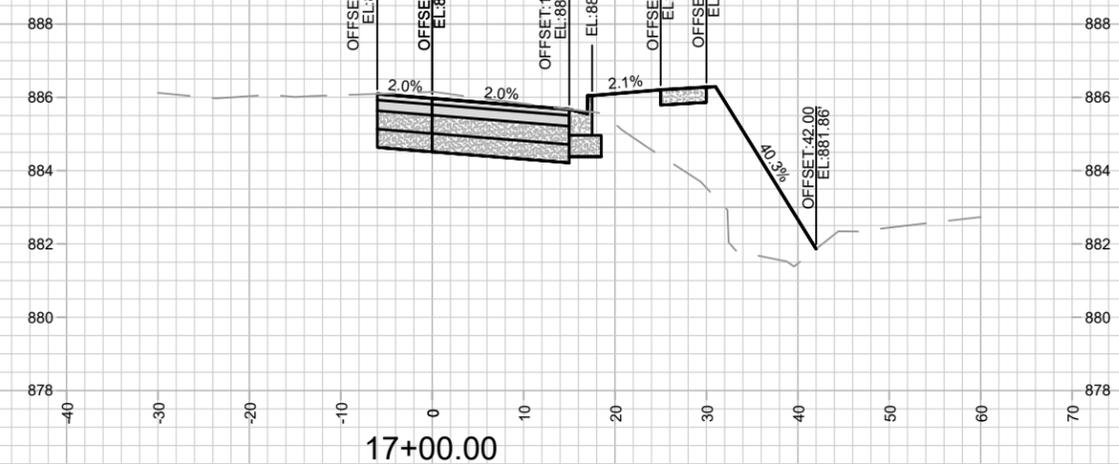
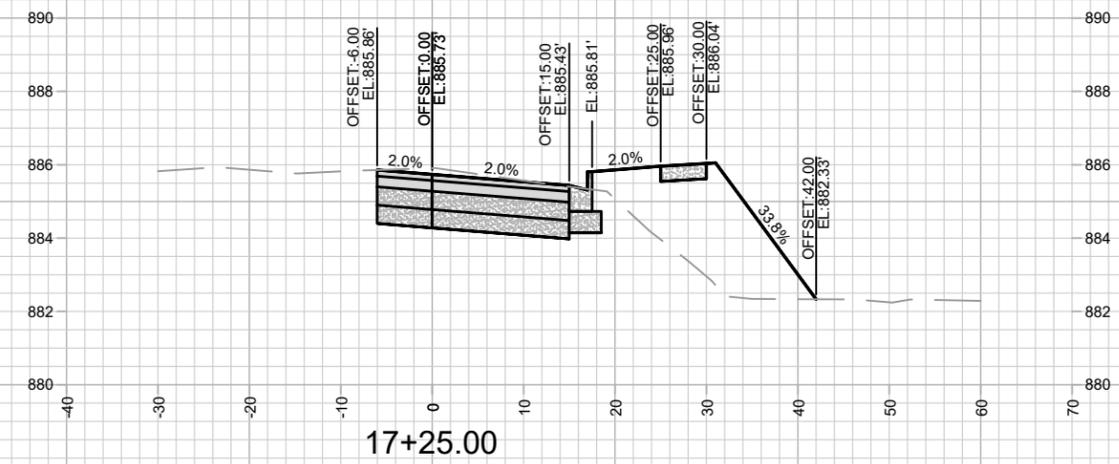
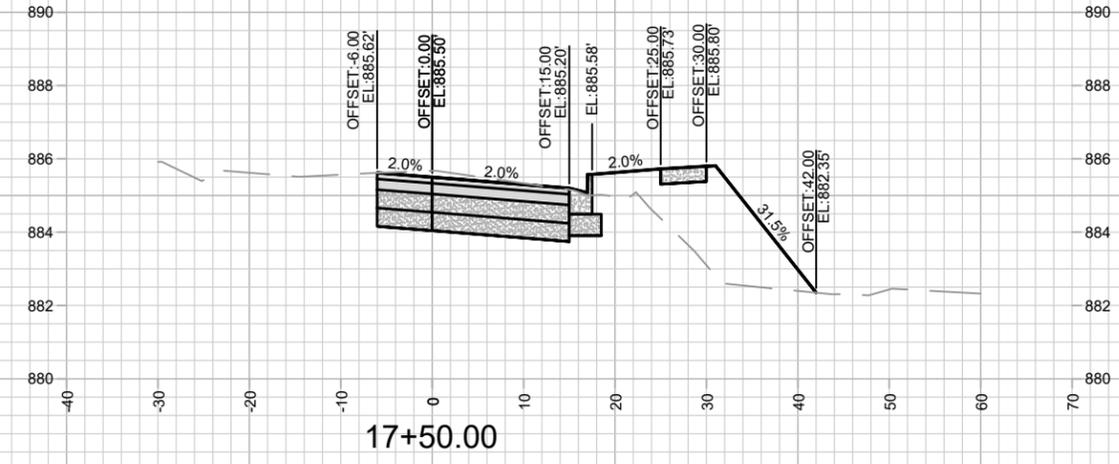
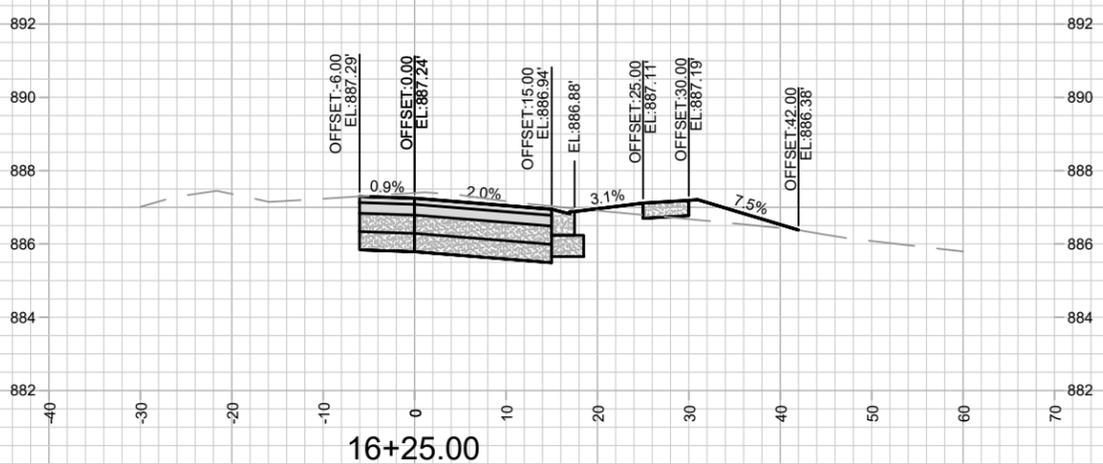
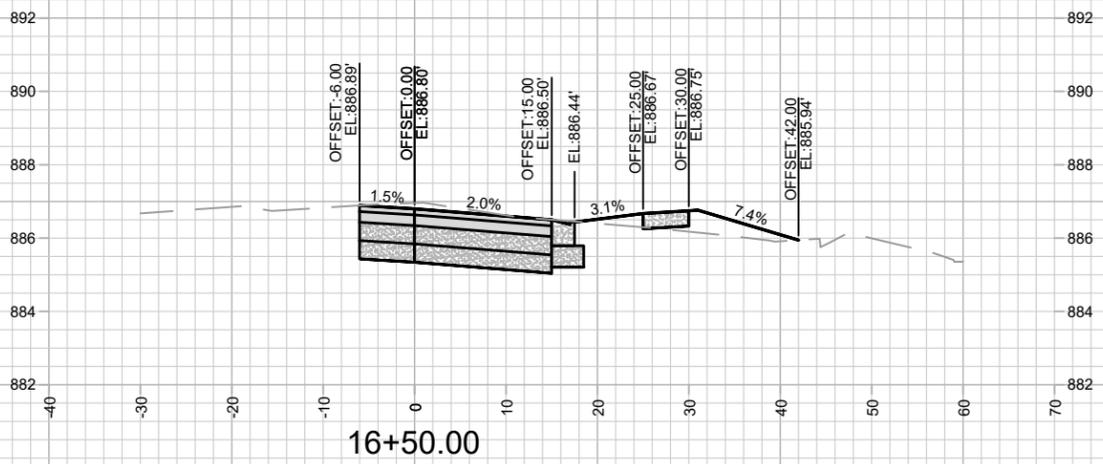
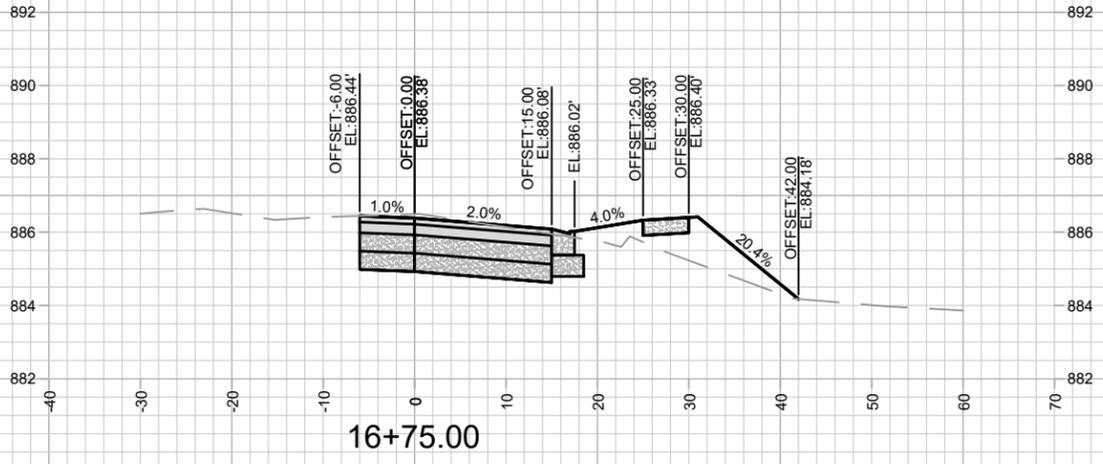
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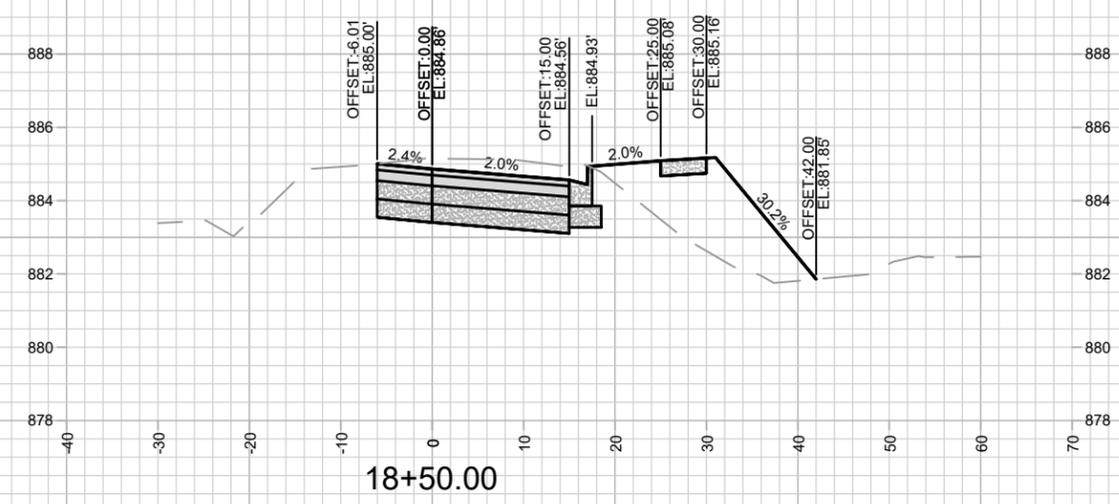
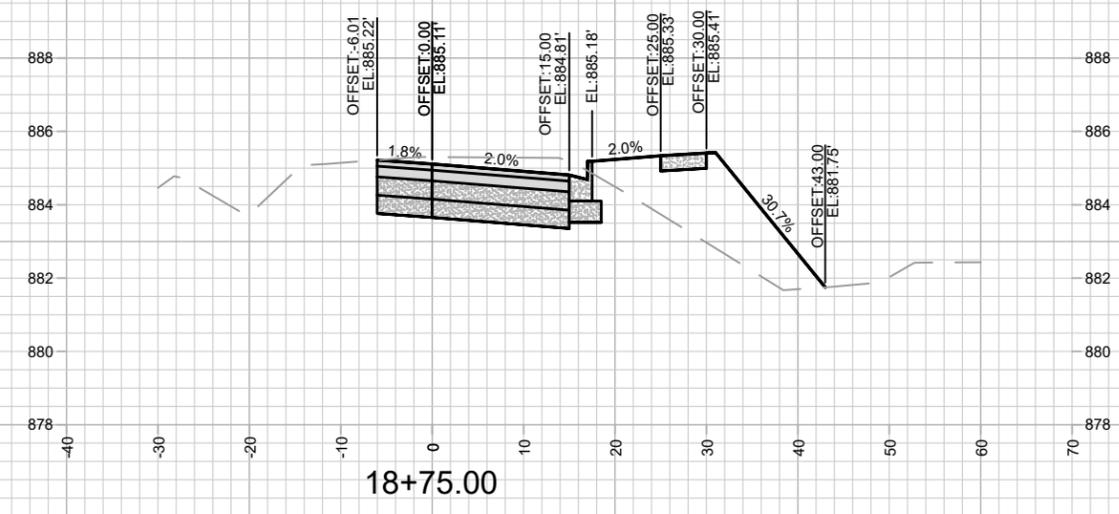
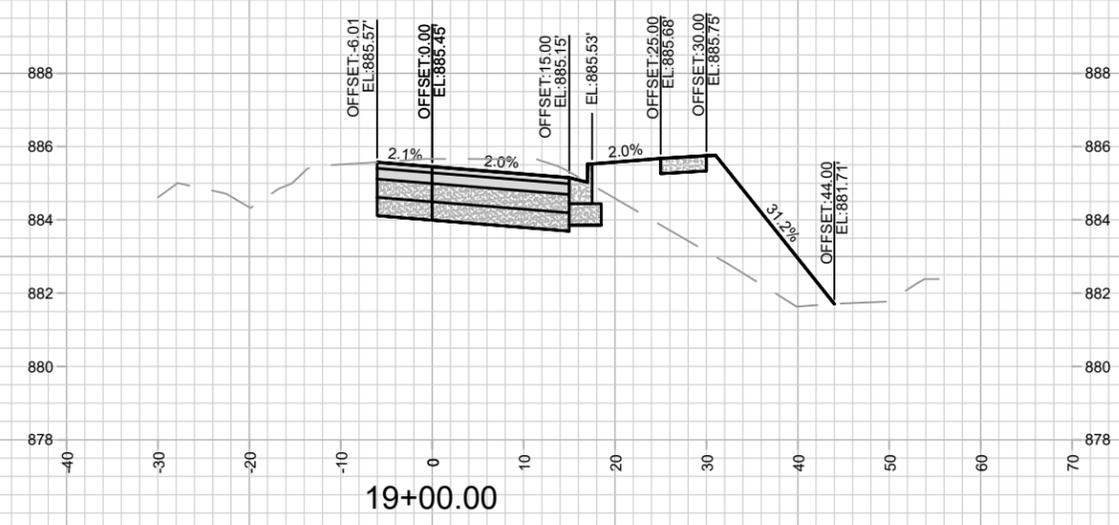
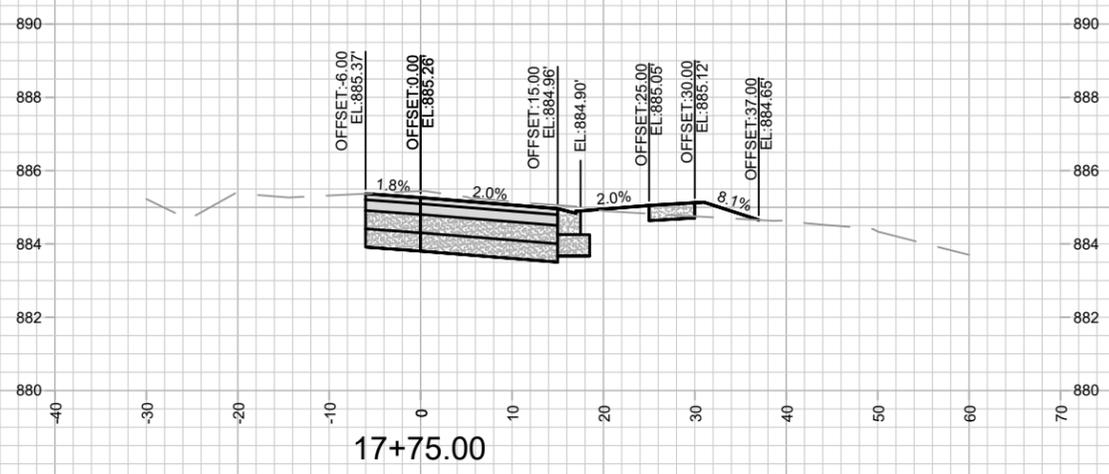
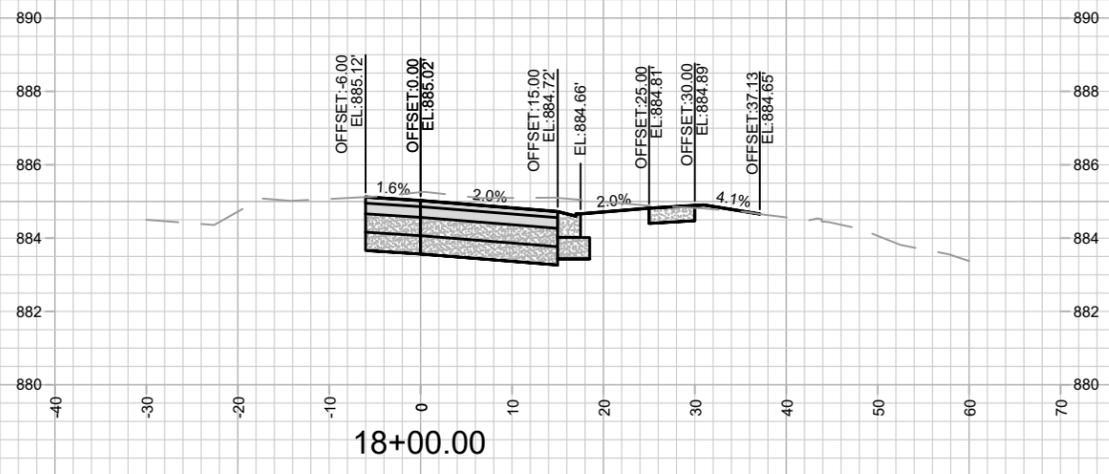
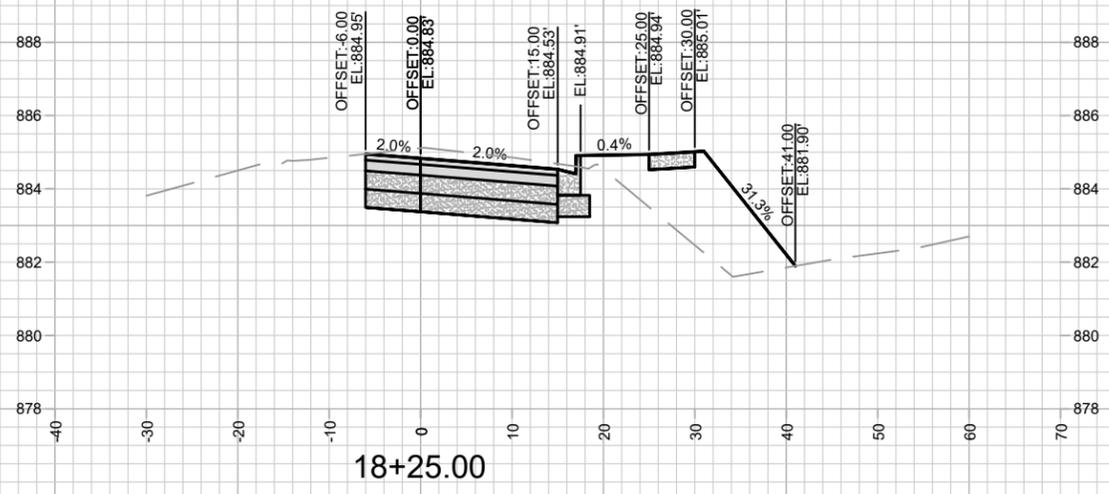
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 9481
 CONTRACT NO.:

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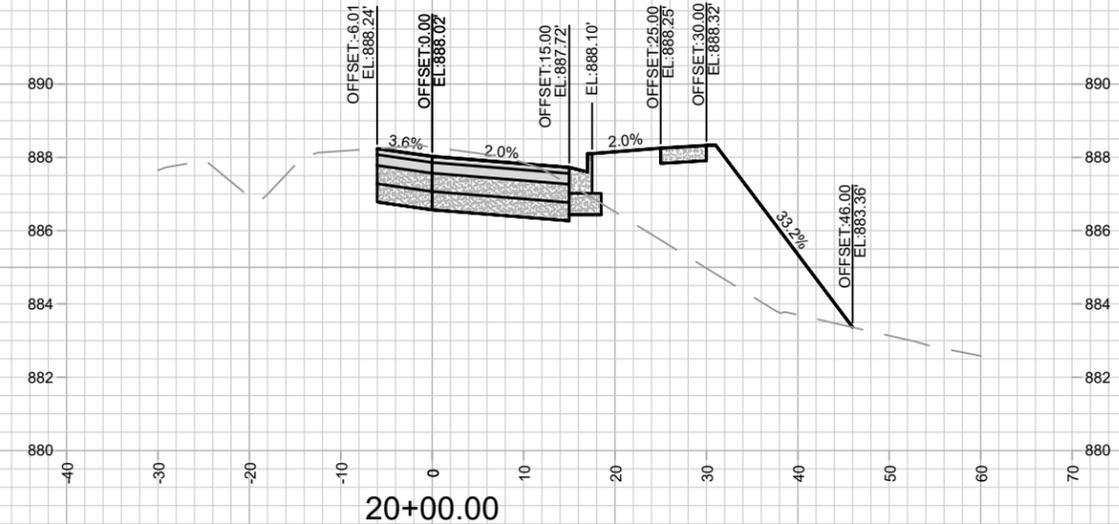
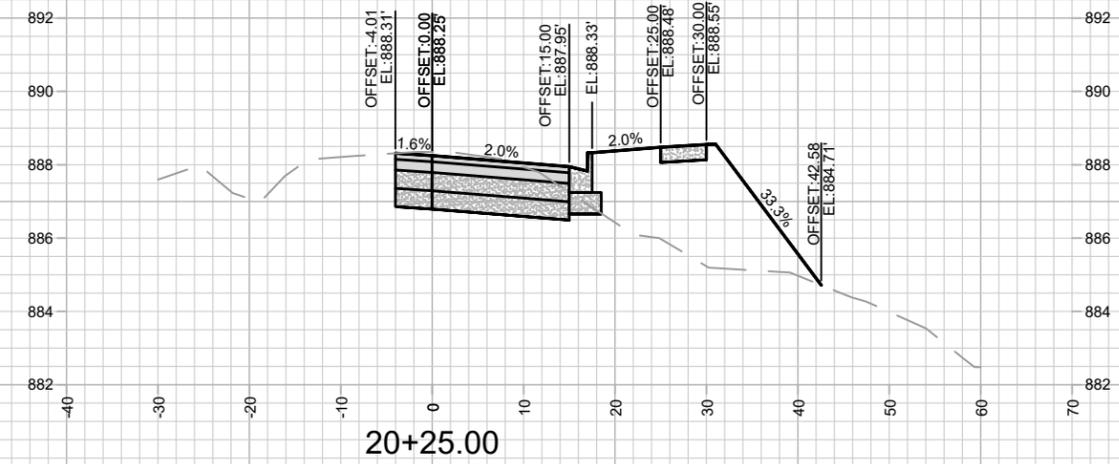
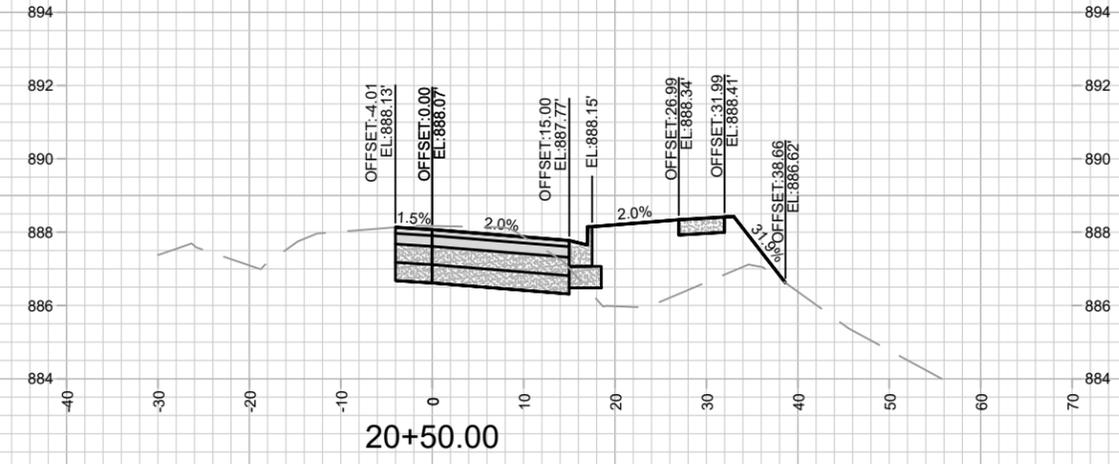
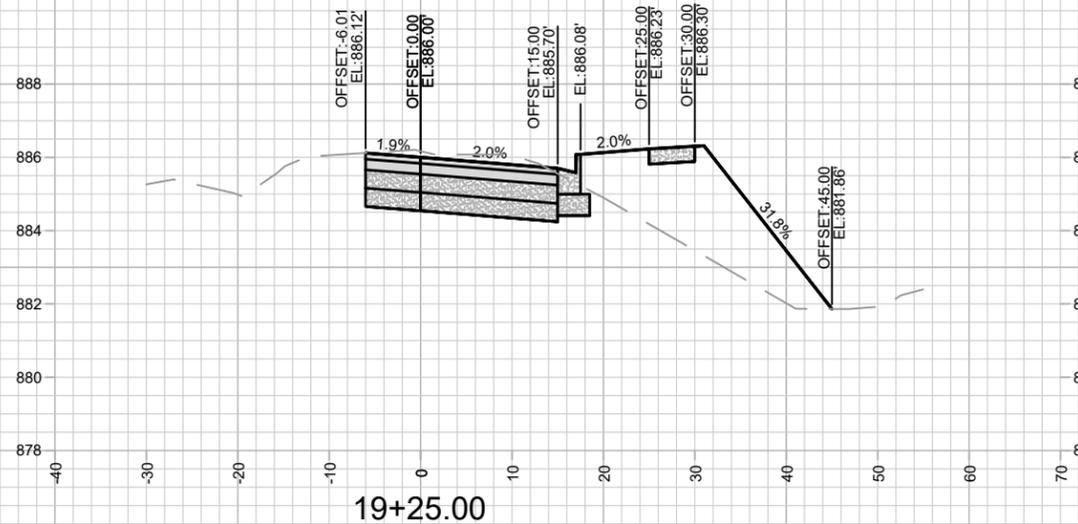
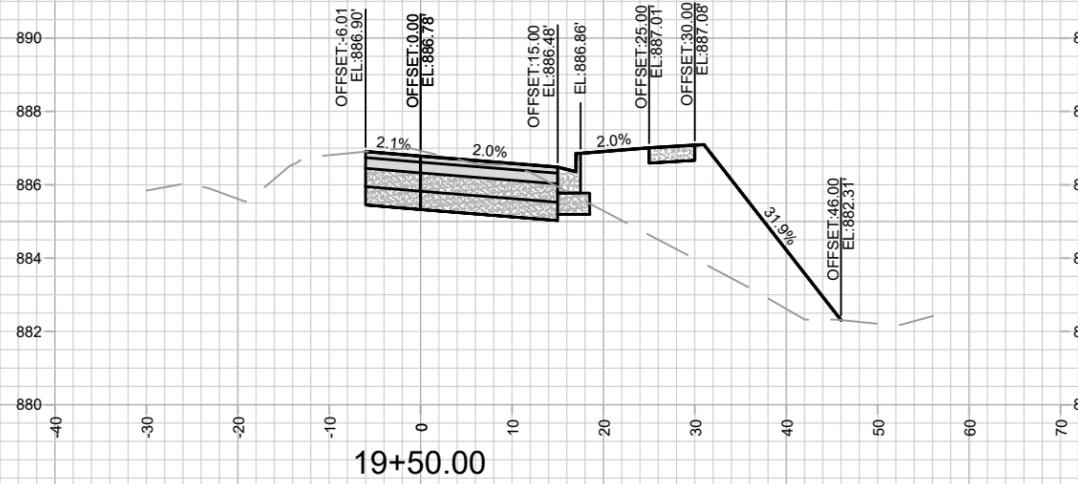
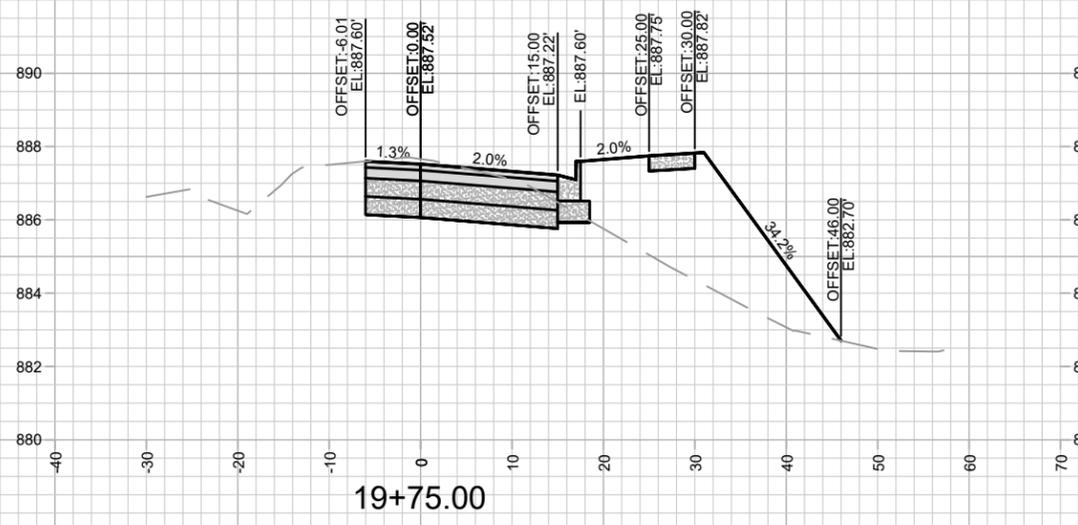
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MADISON, WI
9481

CONTRACT NO:
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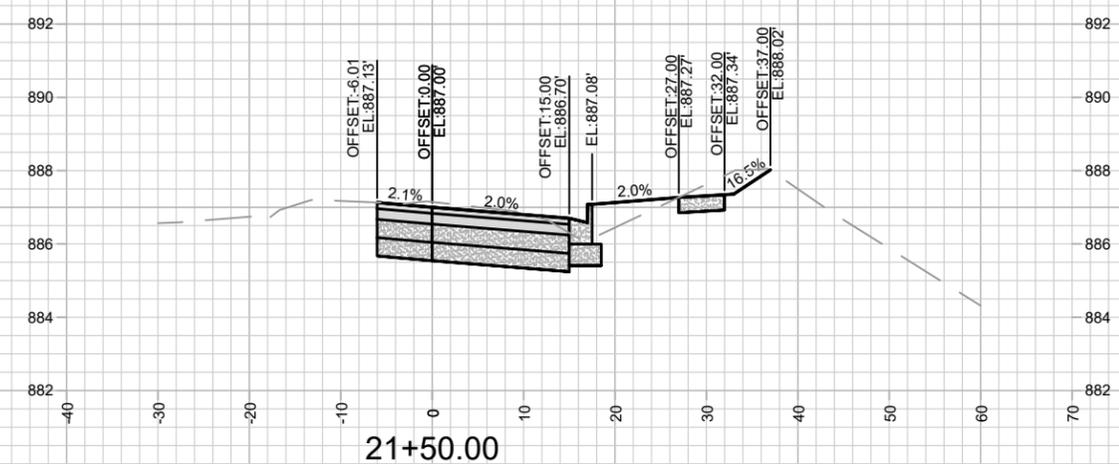
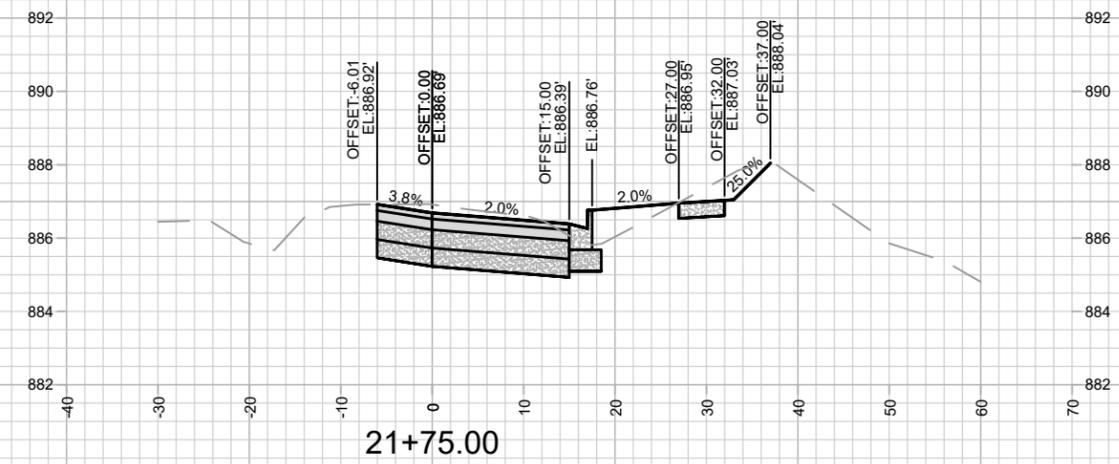
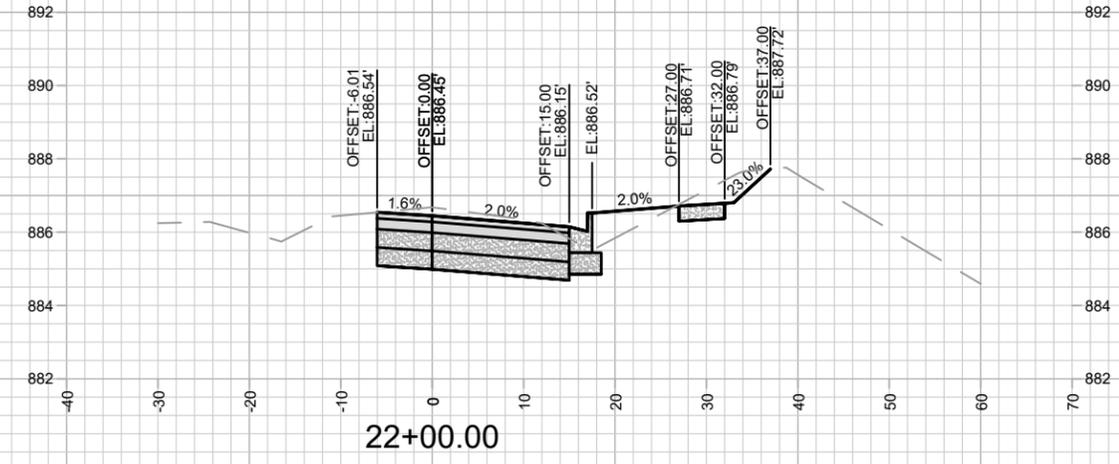
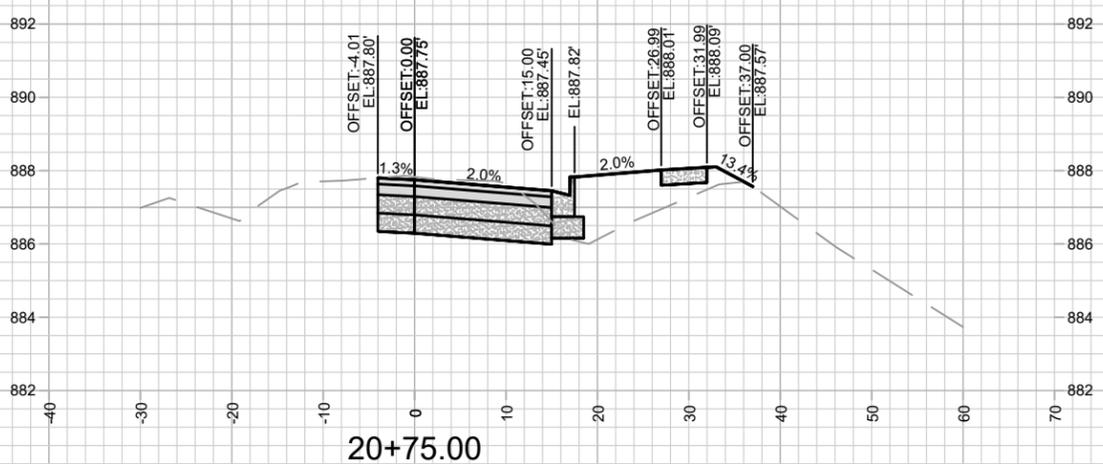
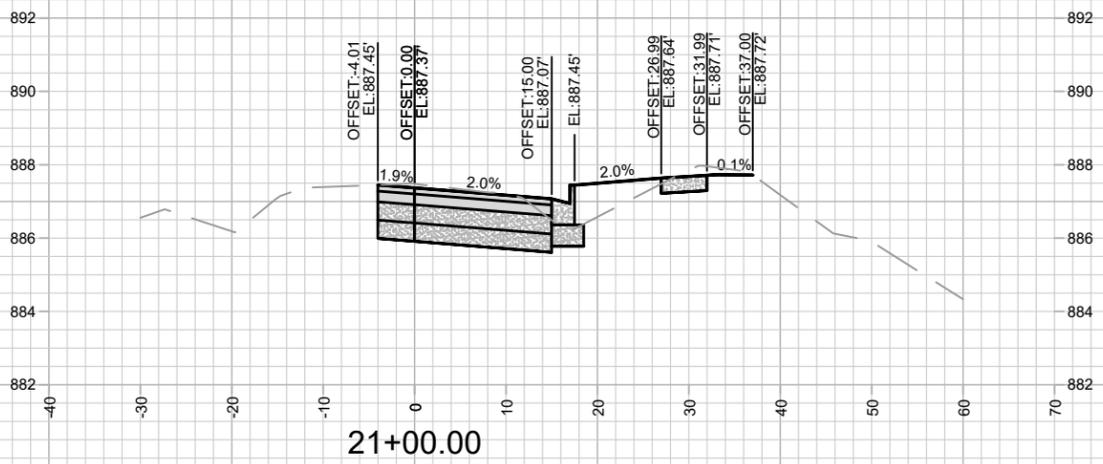
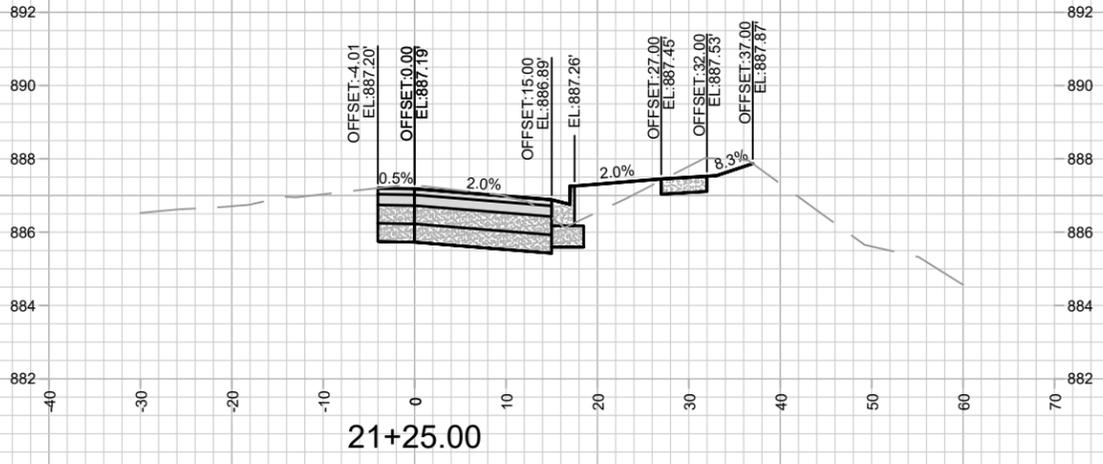


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CROSS SECTIONS - LUDS LN
LUDS LANE AND FEMRITE DRIVE CSM

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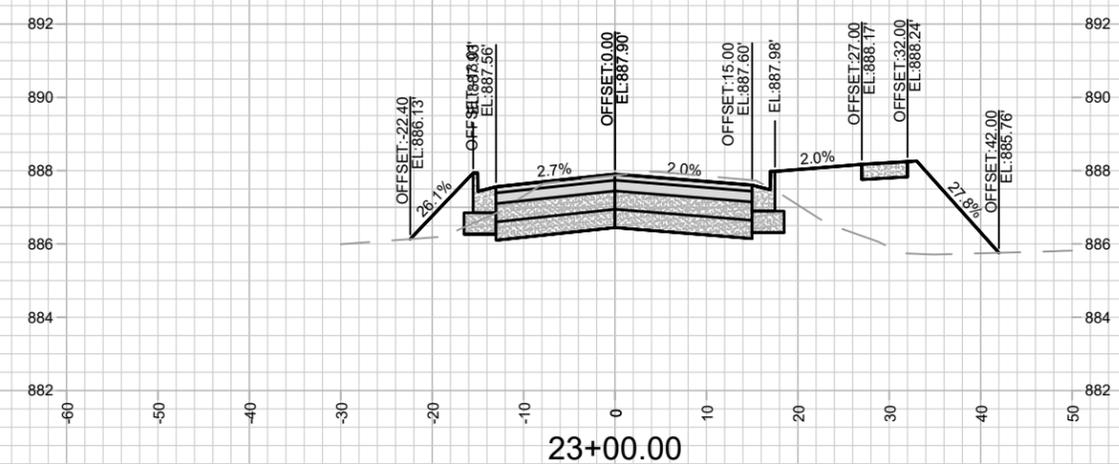
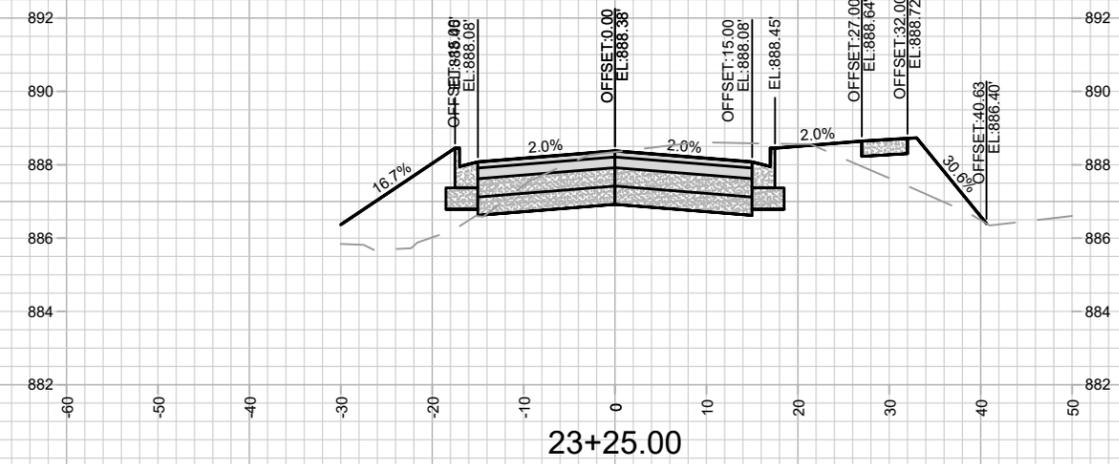
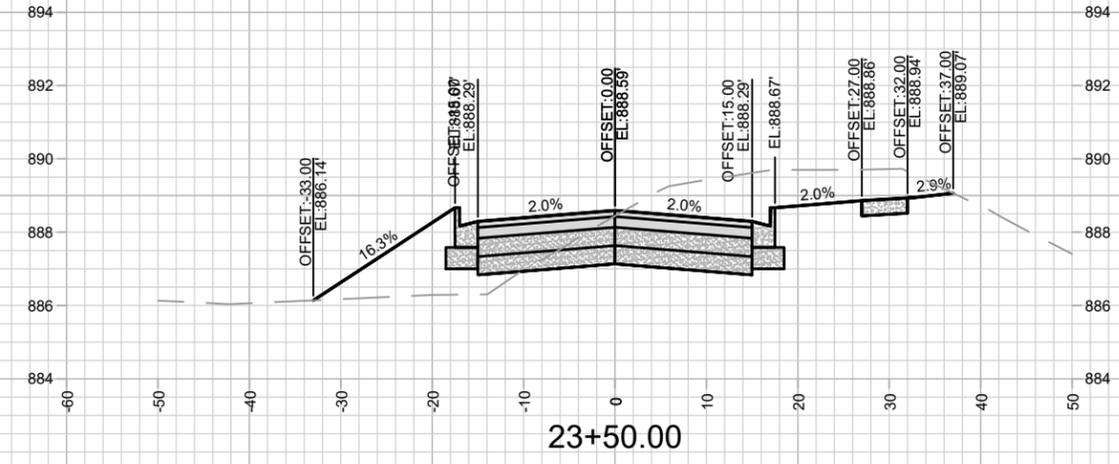
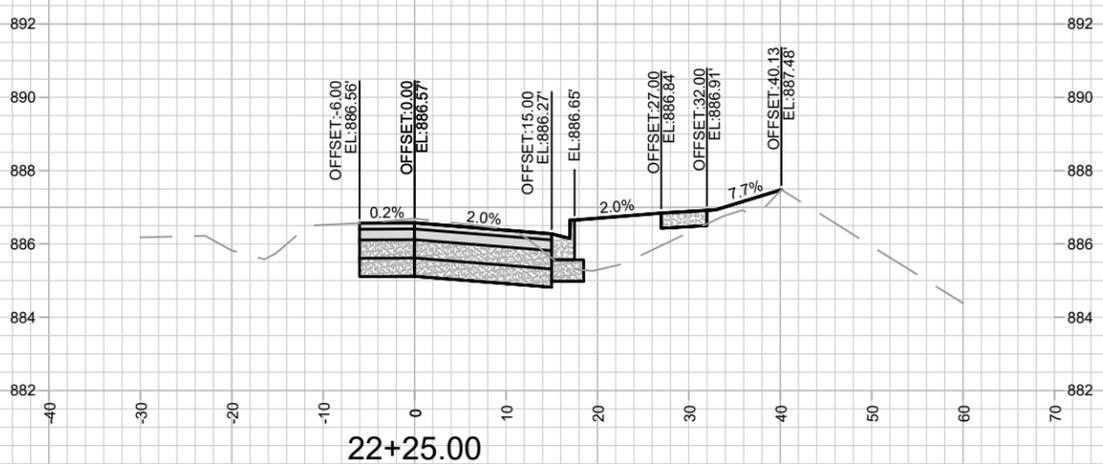
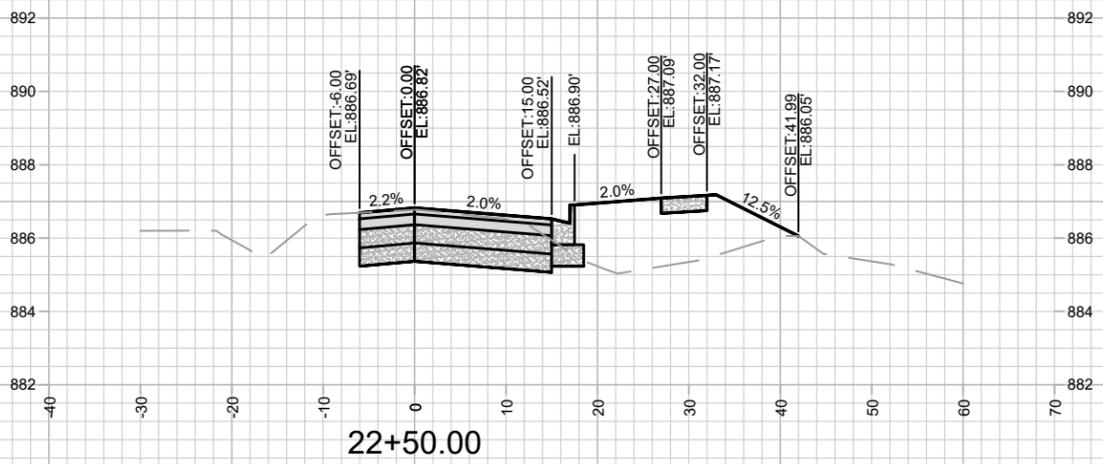
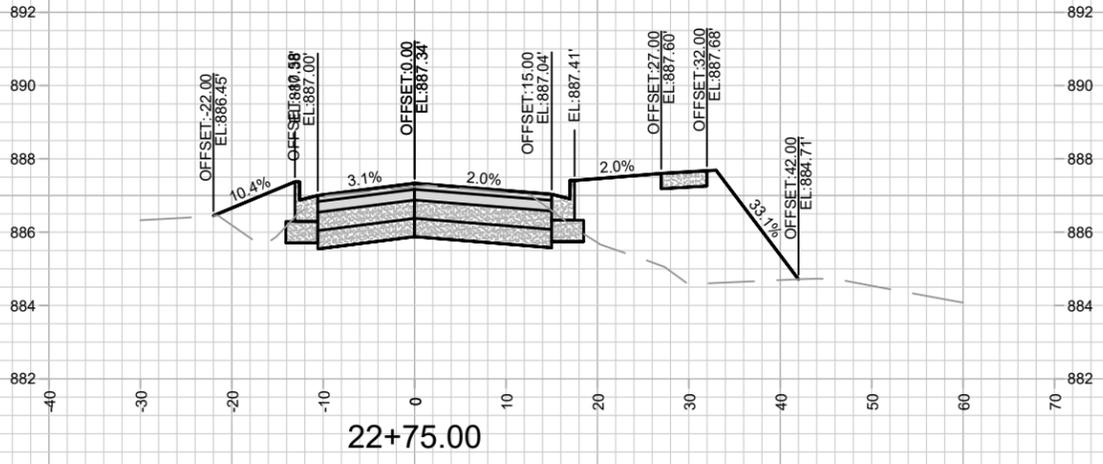
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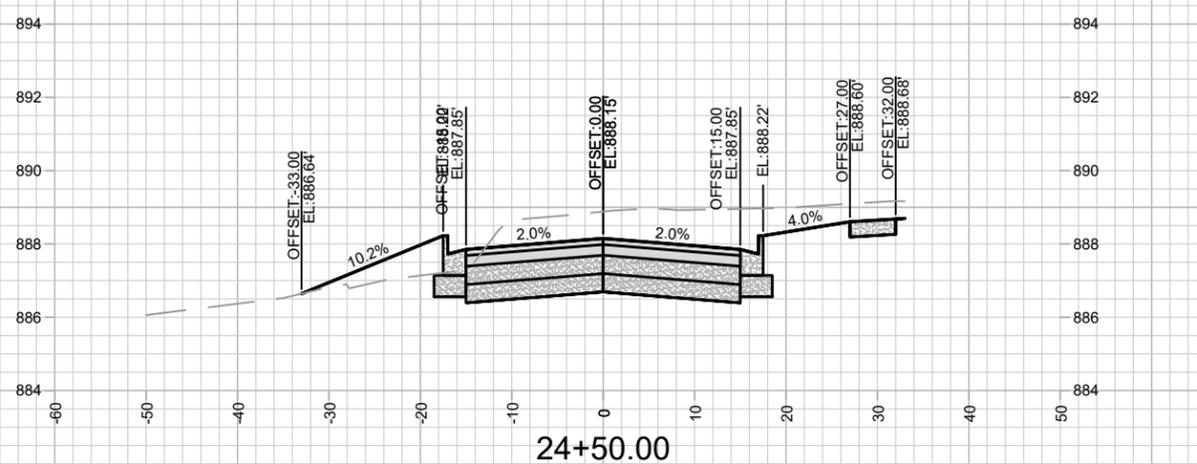
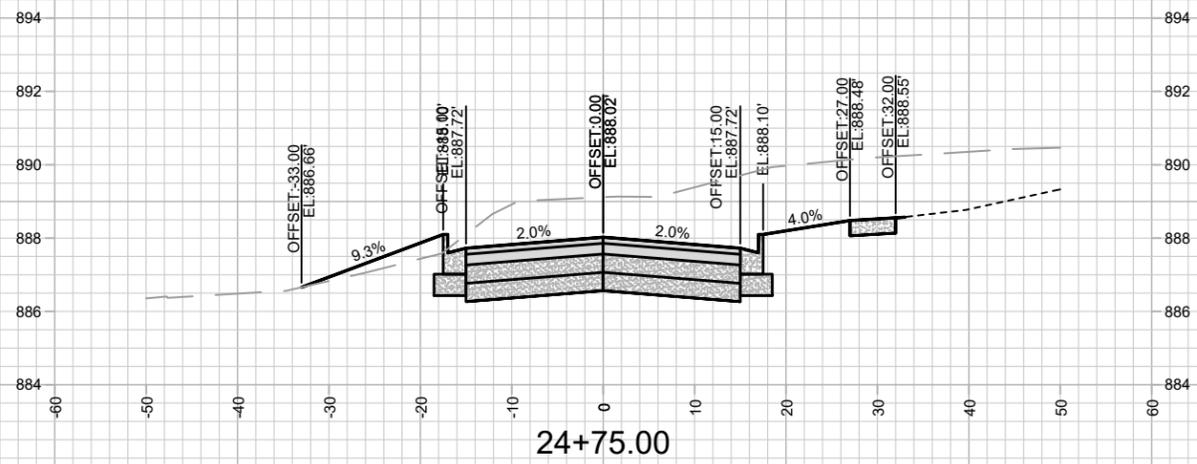
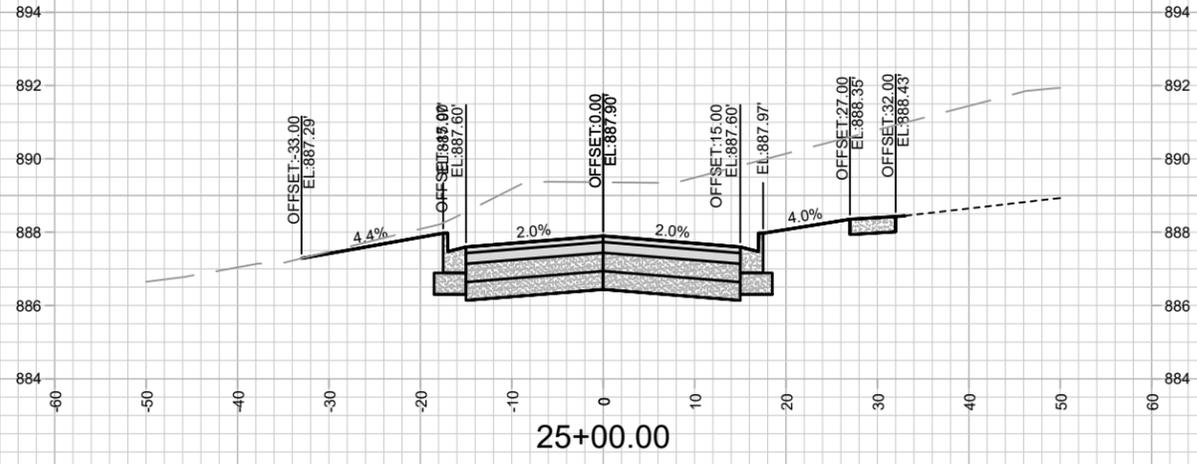
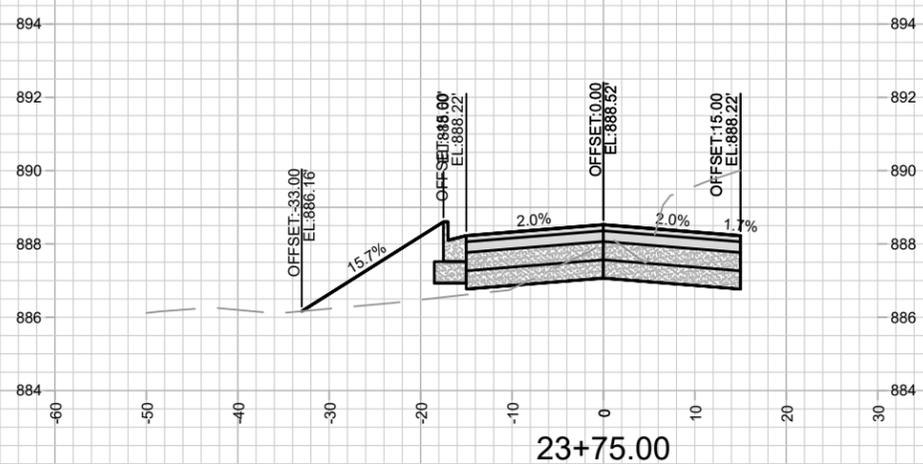
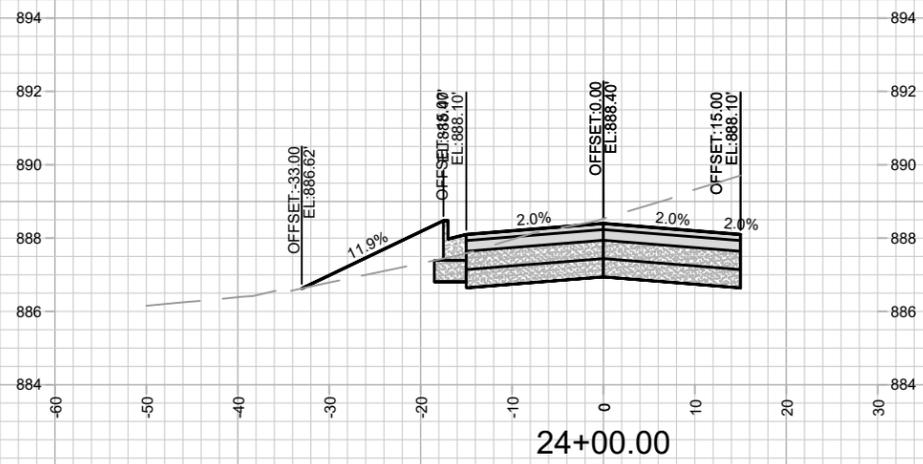
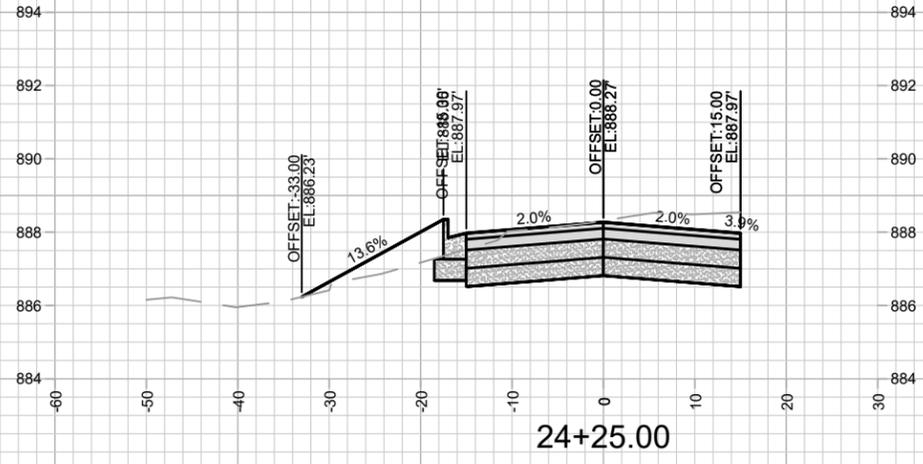
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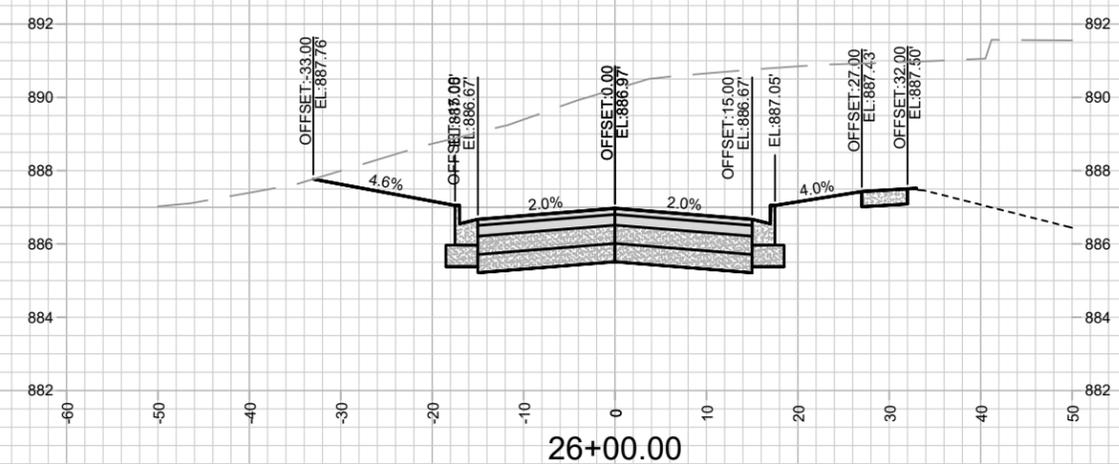
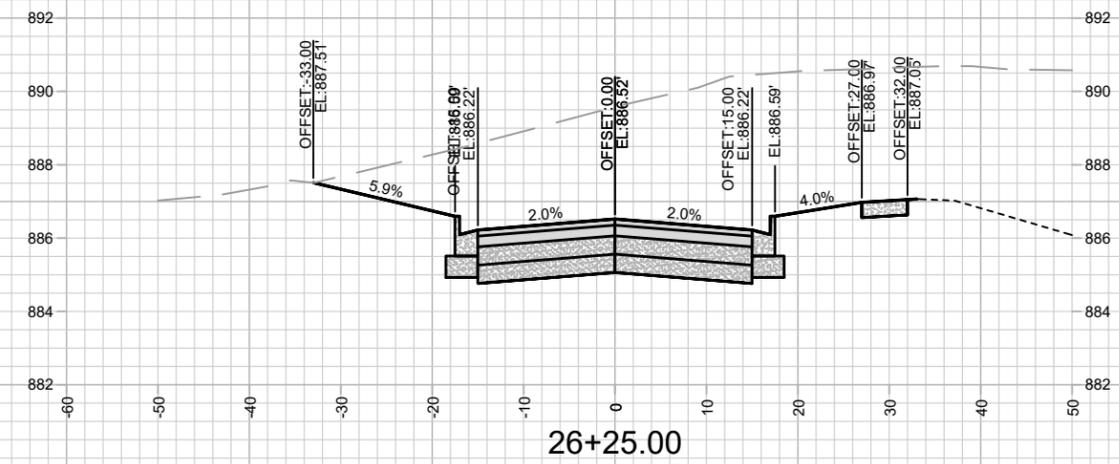
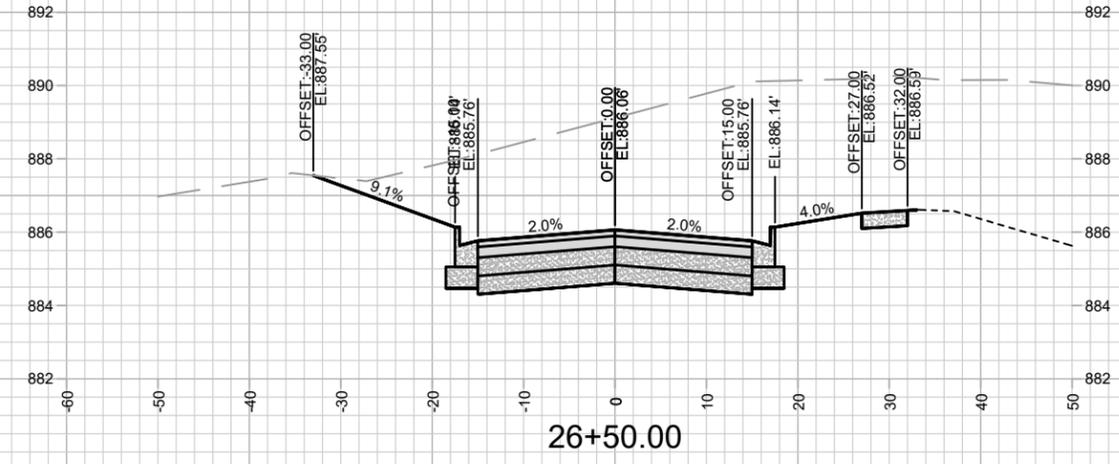
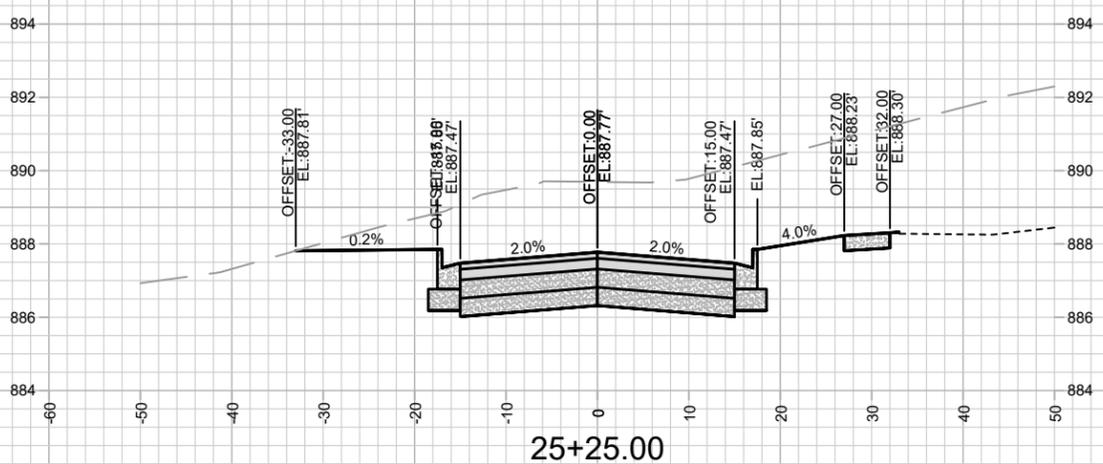
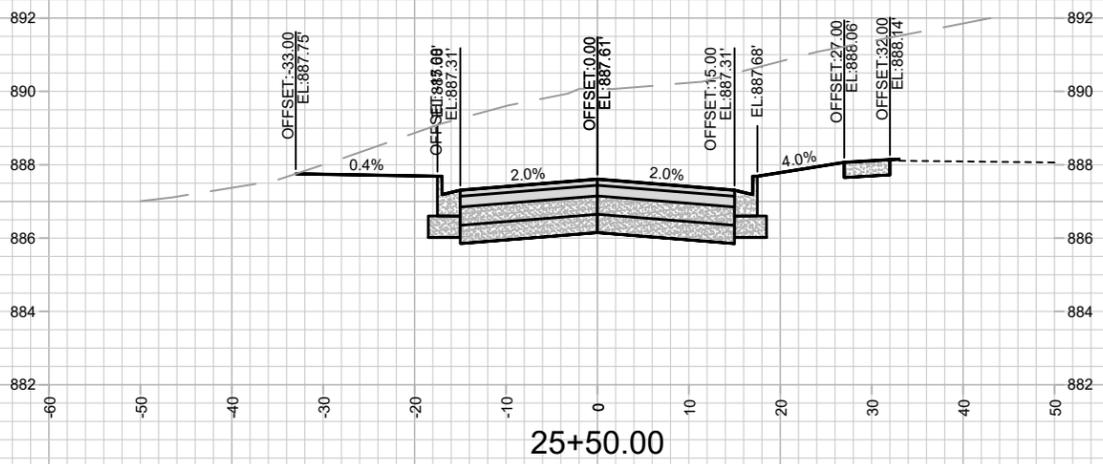
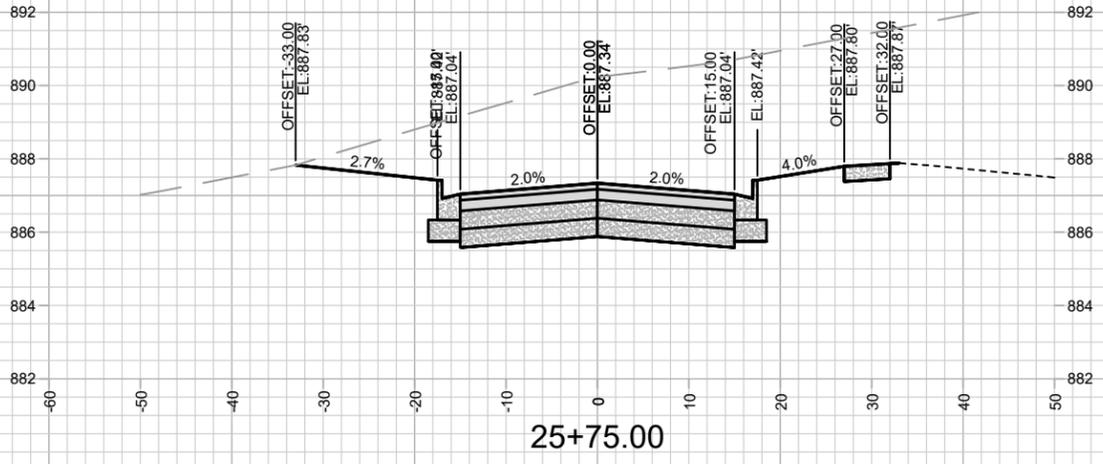
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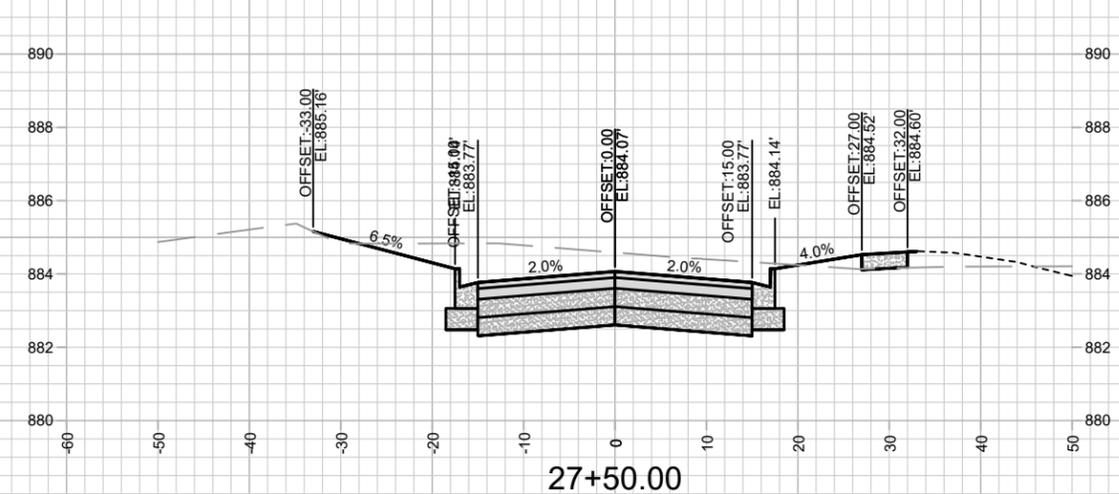
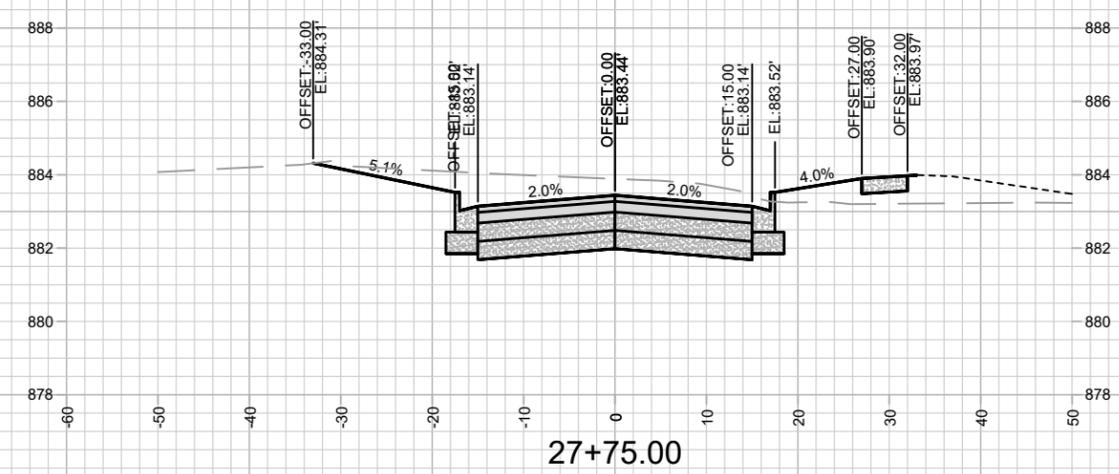
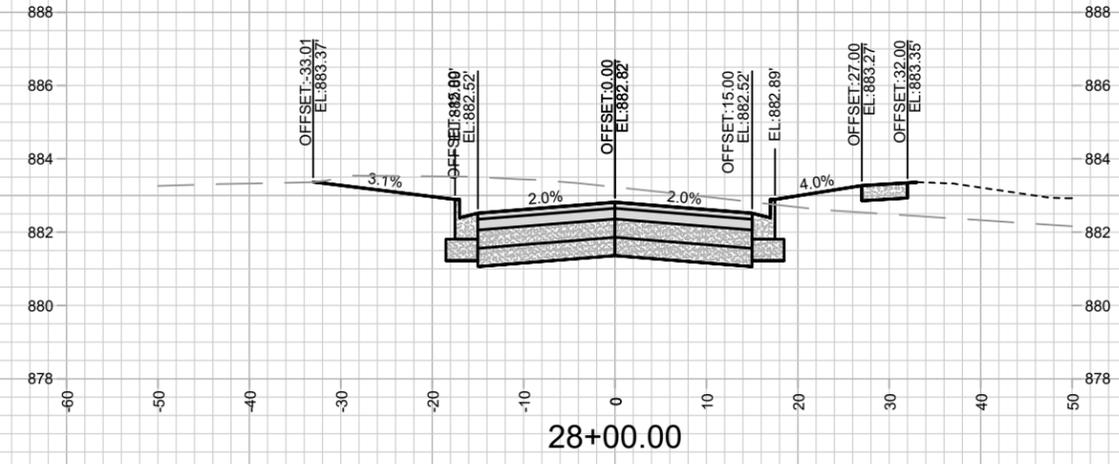
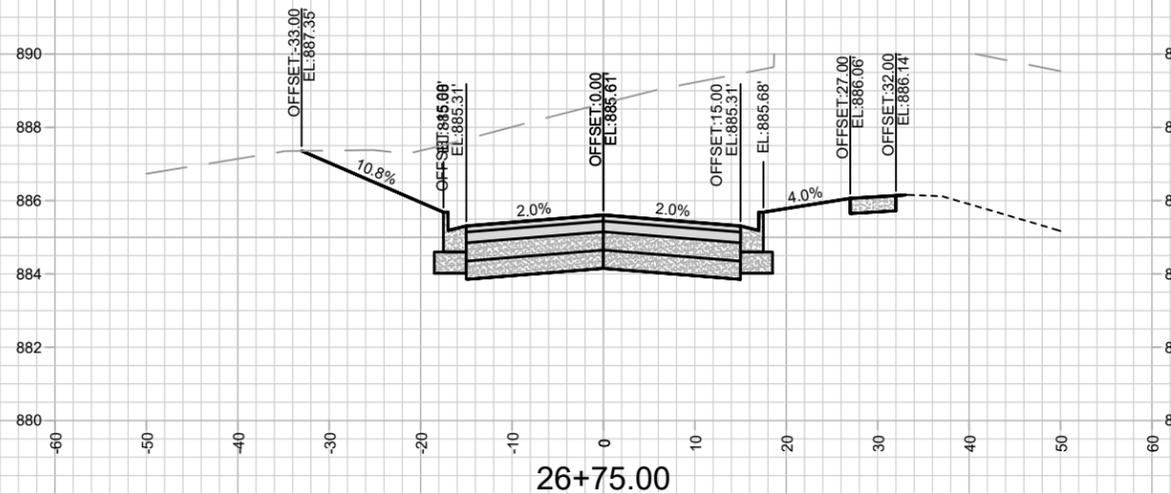
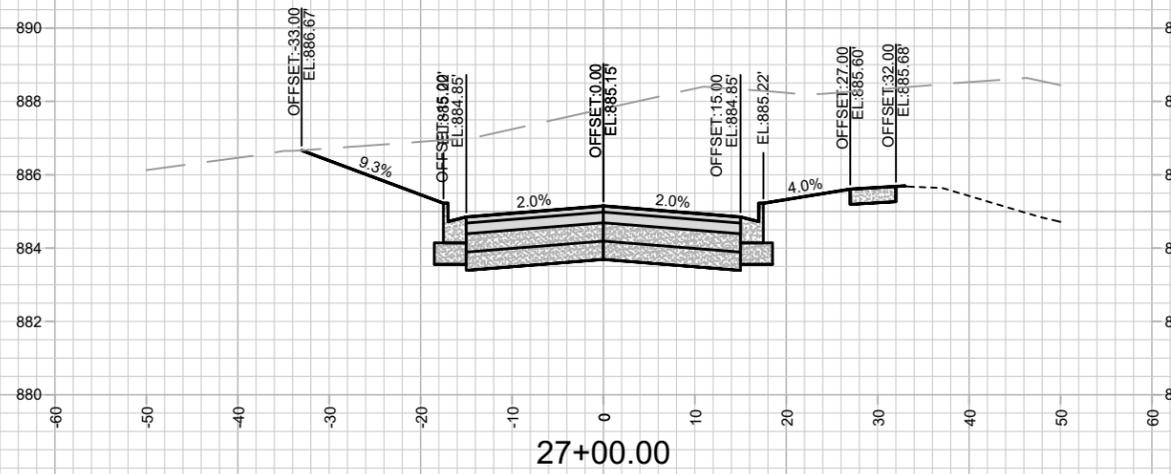
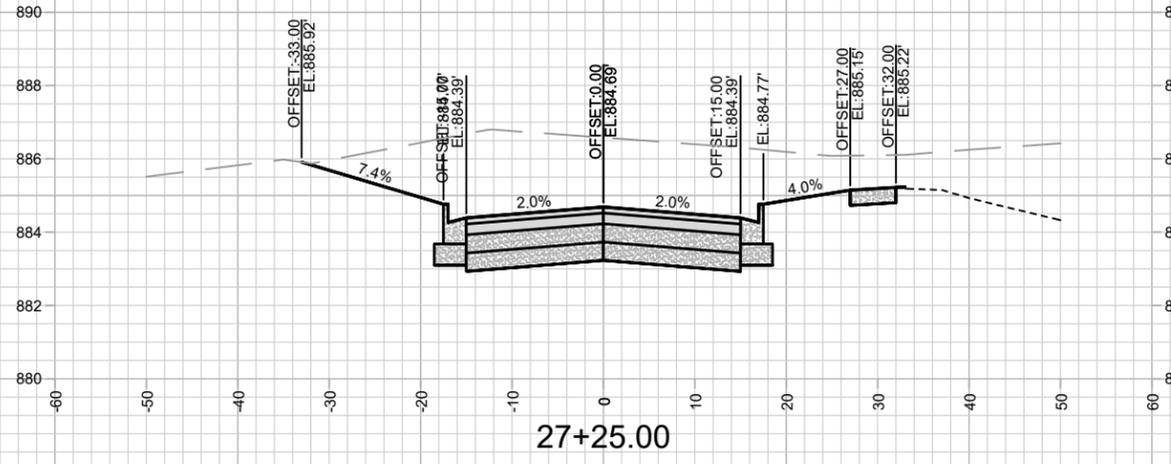
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MADISON, WI
9481

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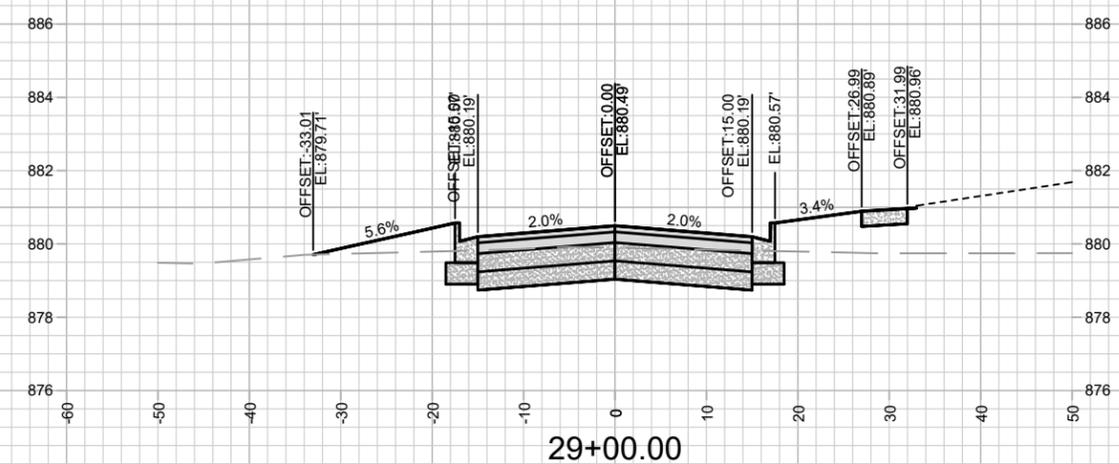
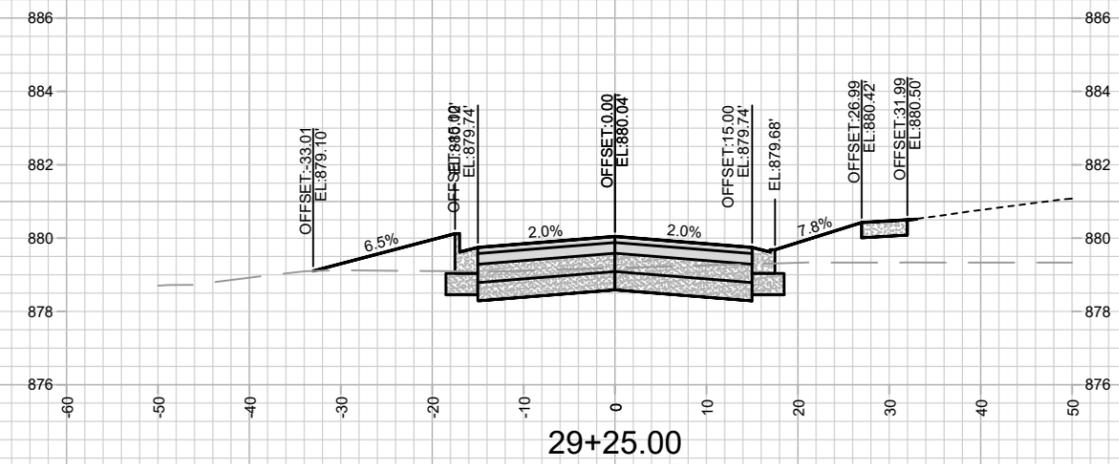
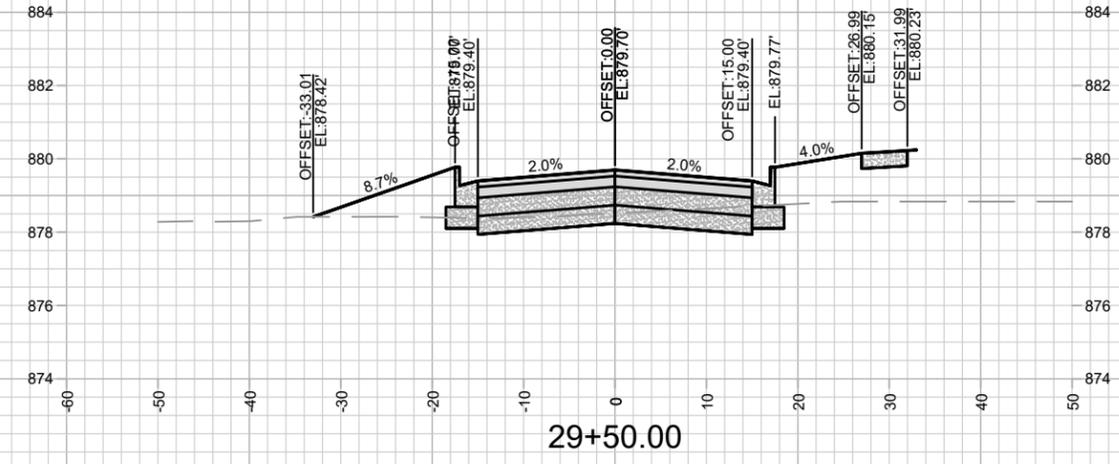
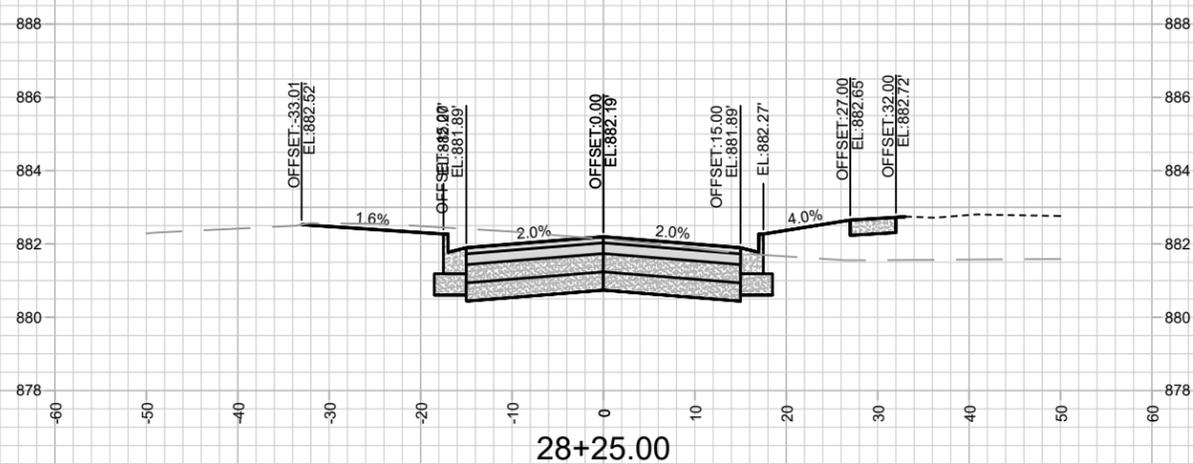
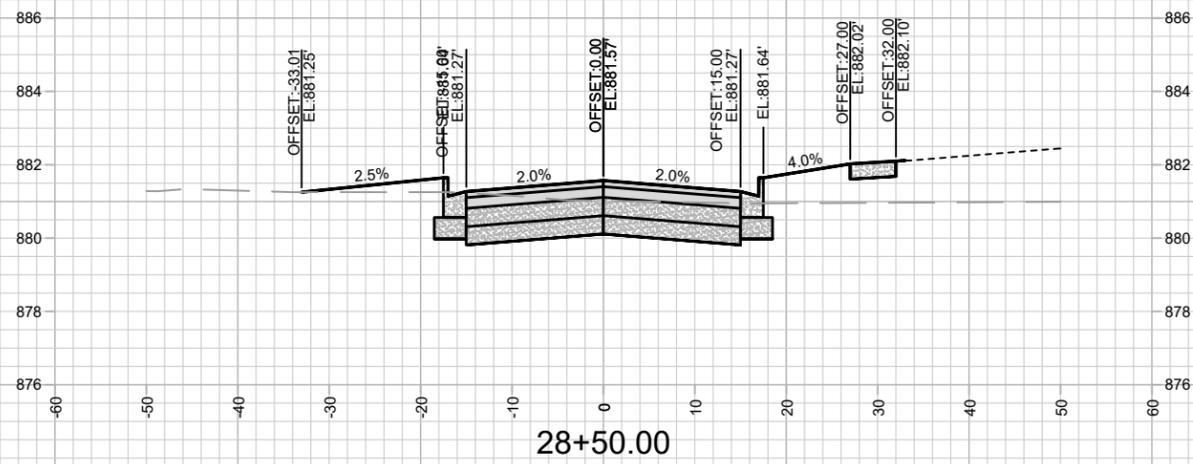
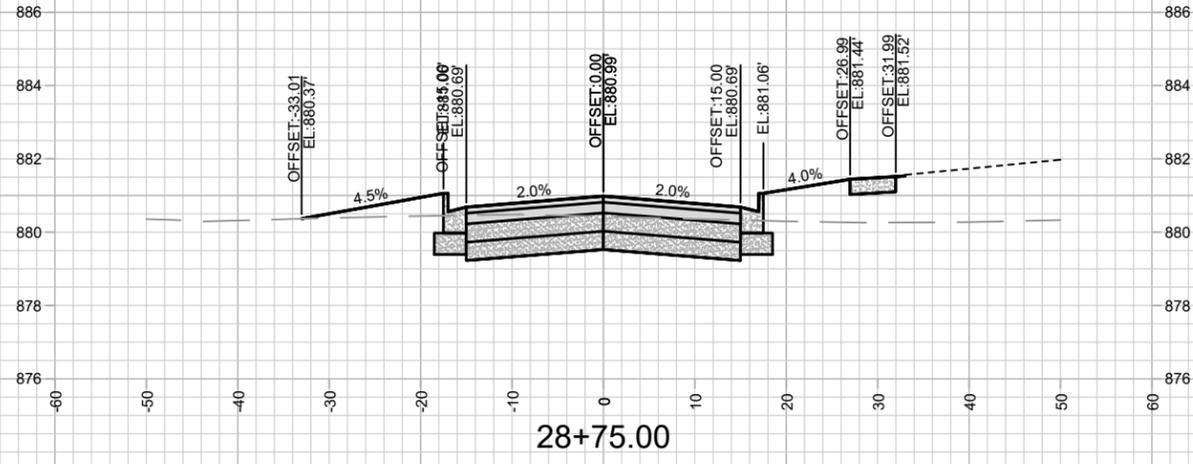
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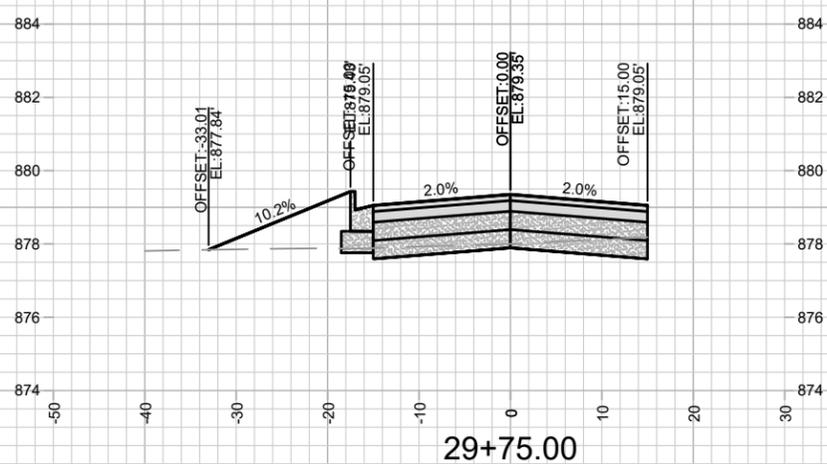
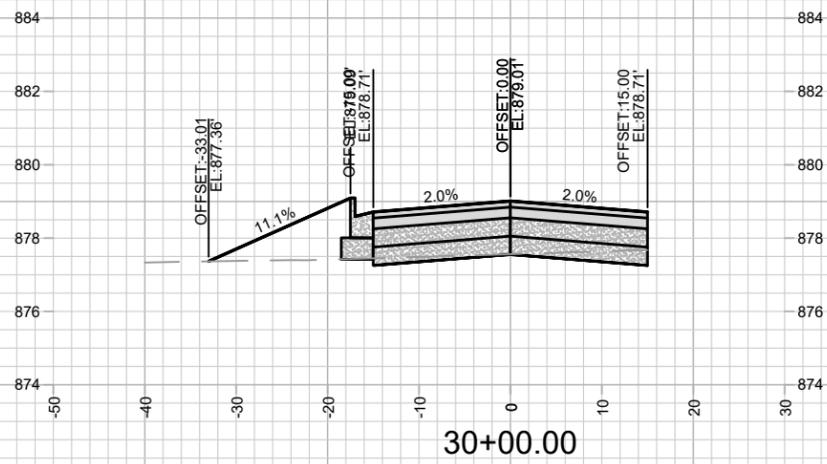
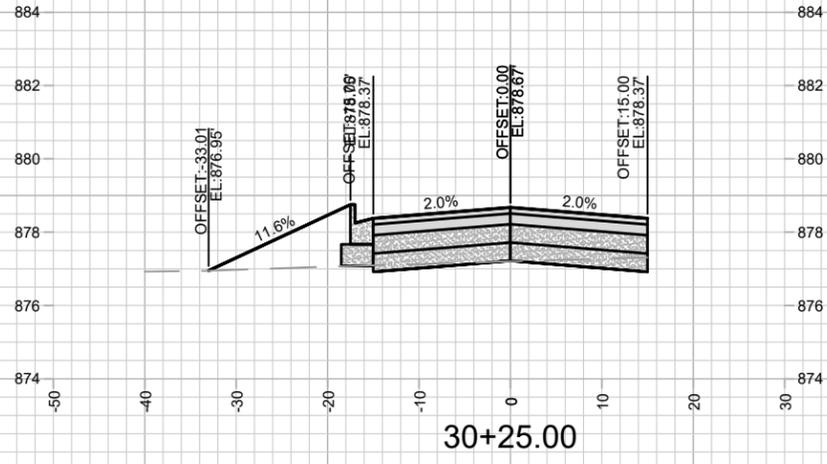
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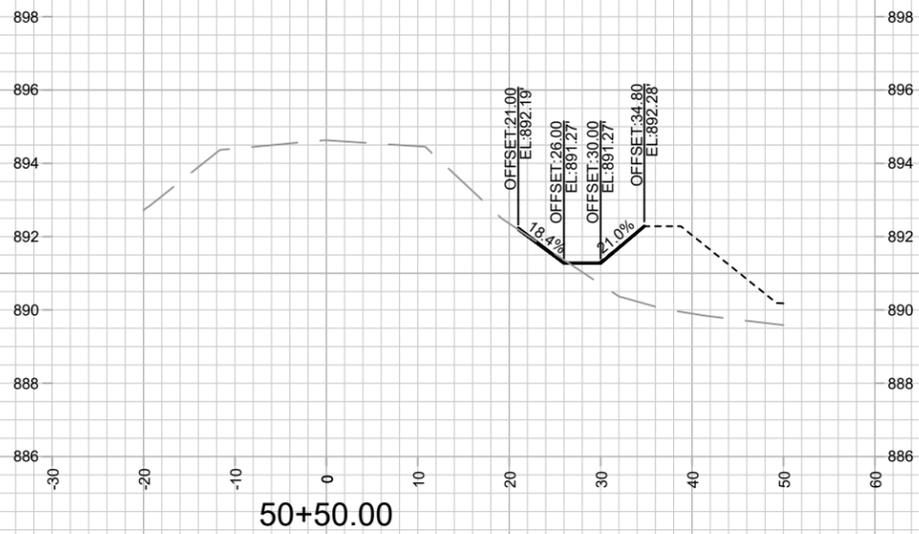
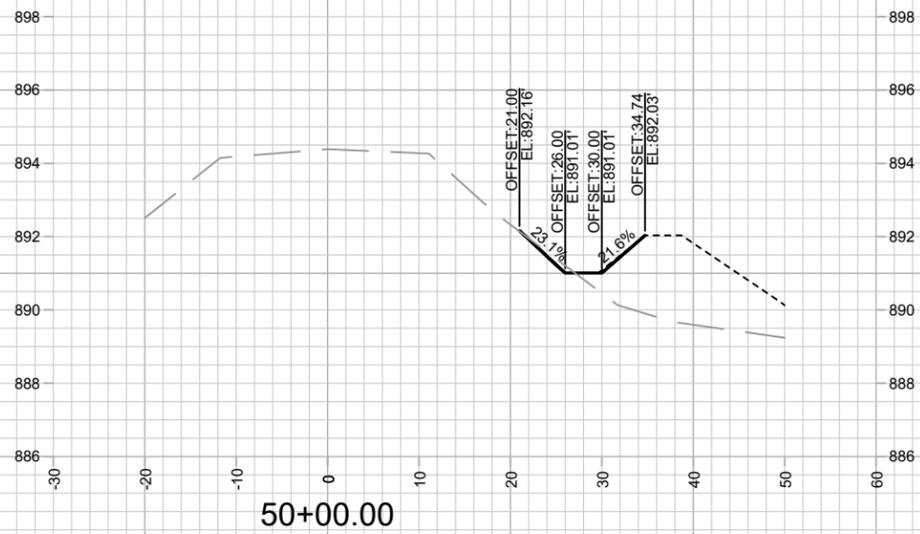
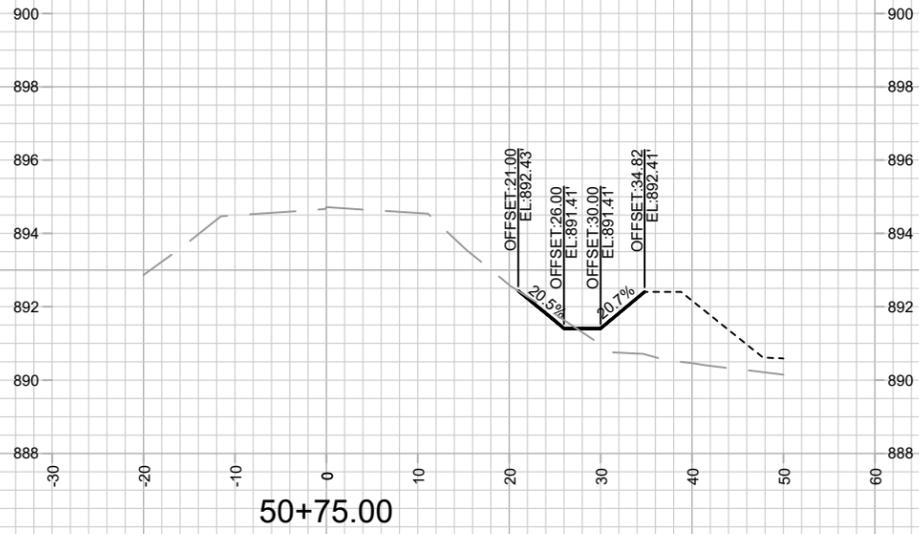
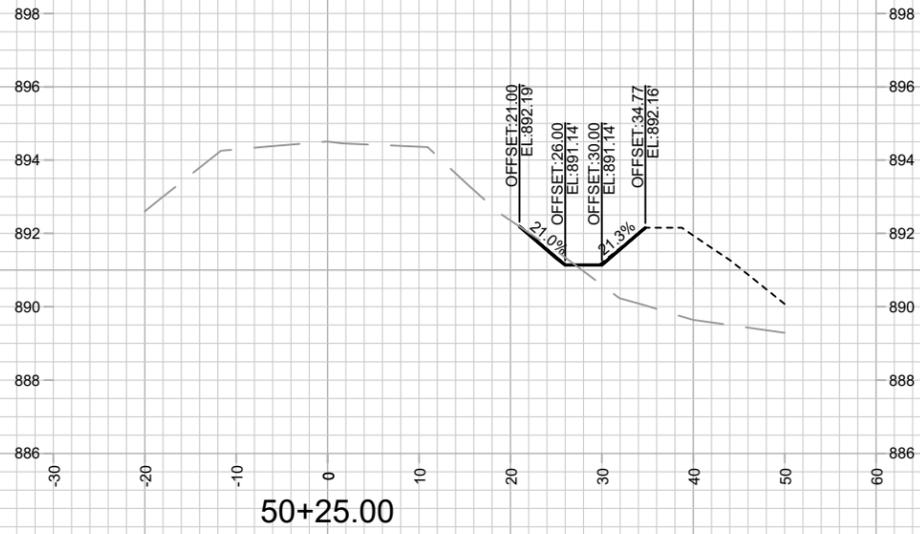
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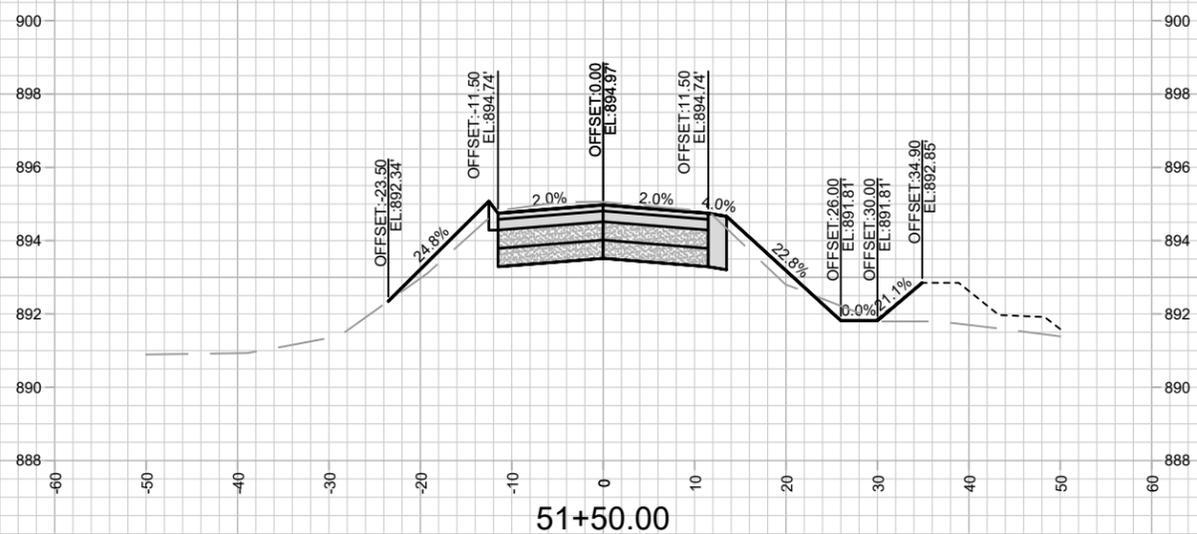
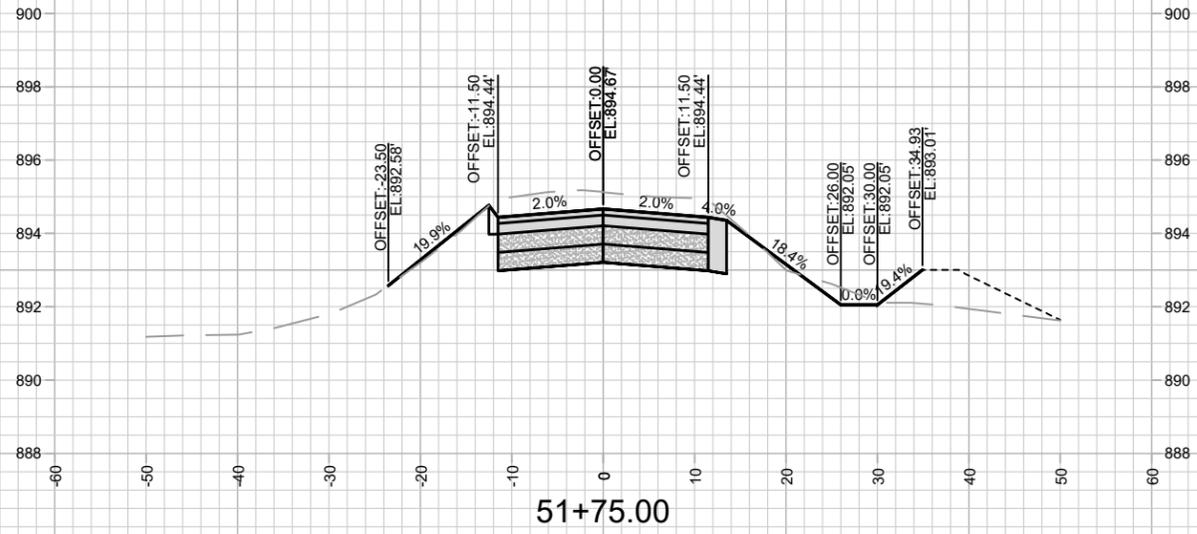
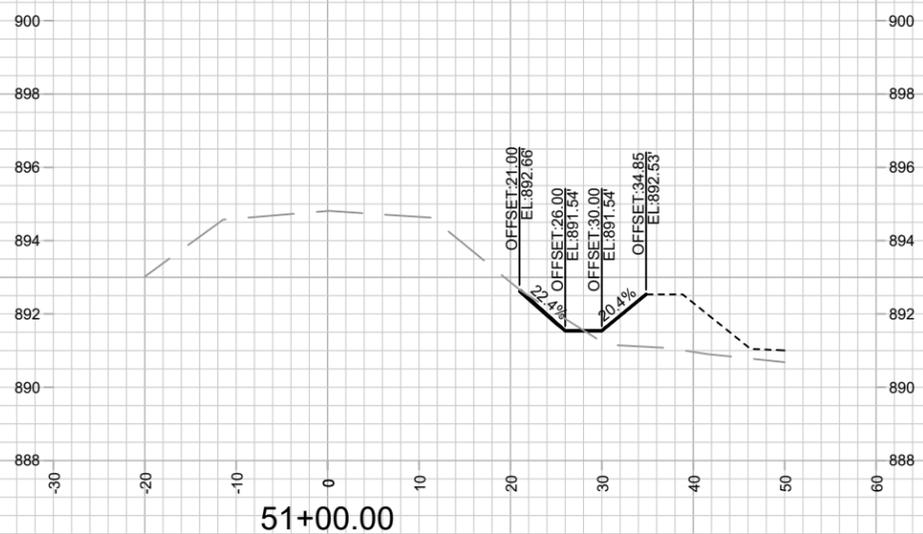
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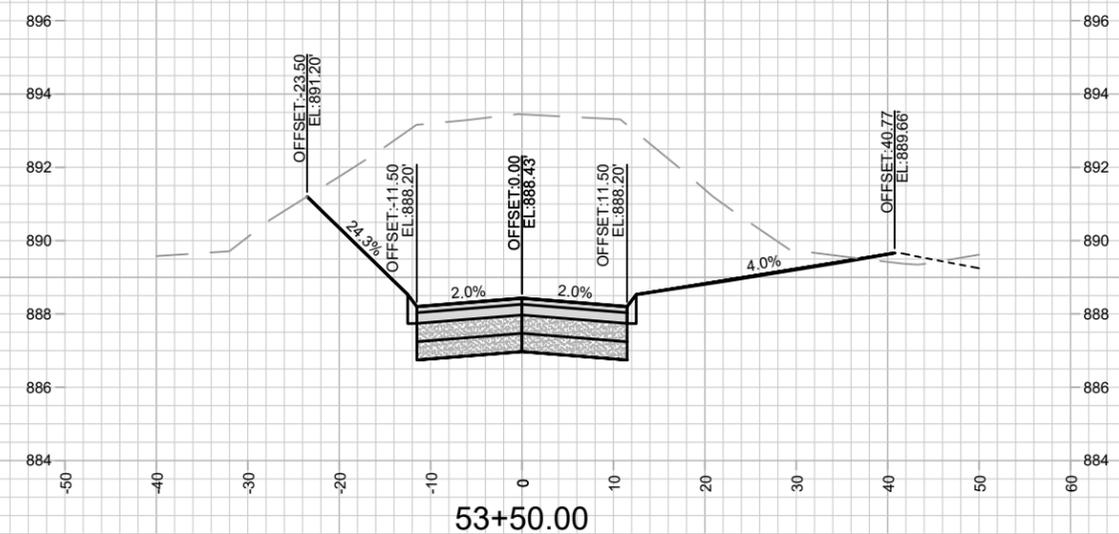
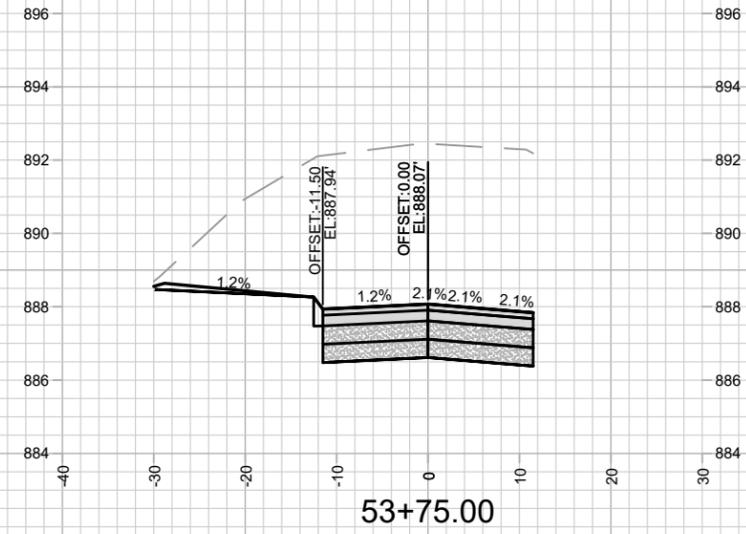
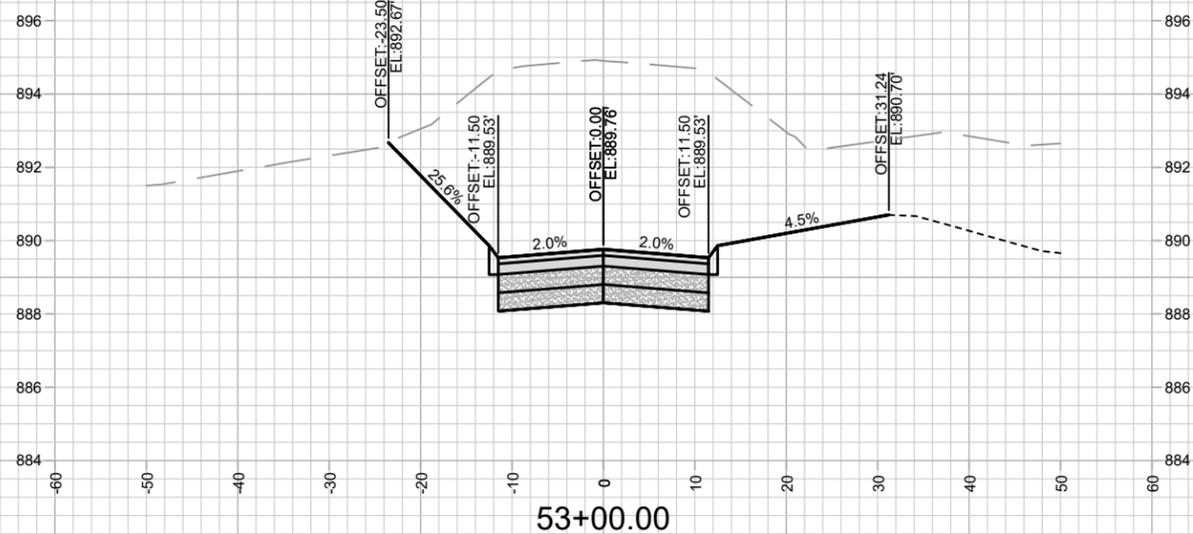
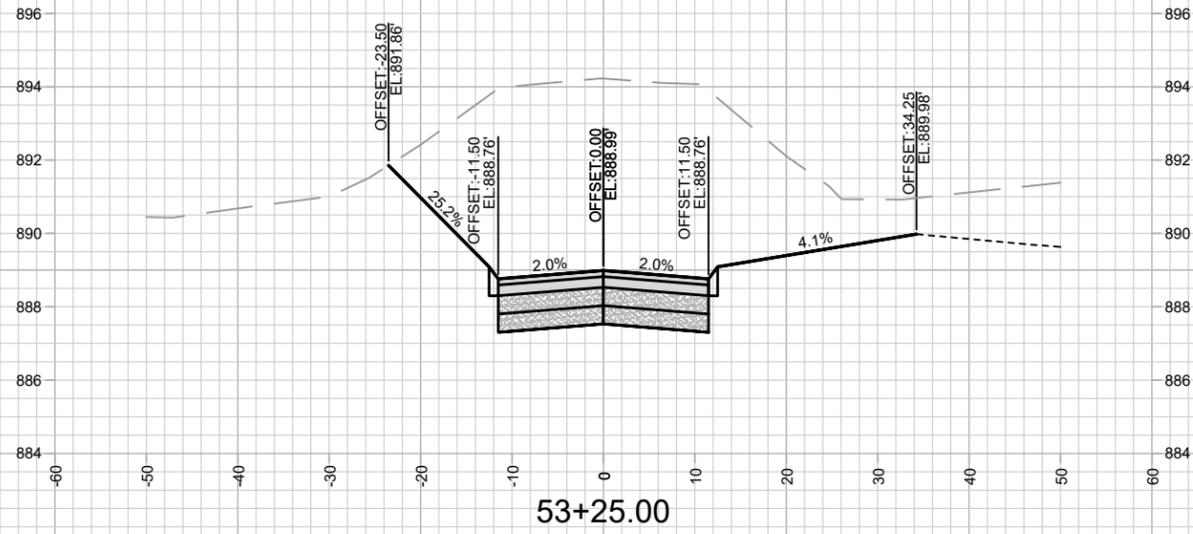
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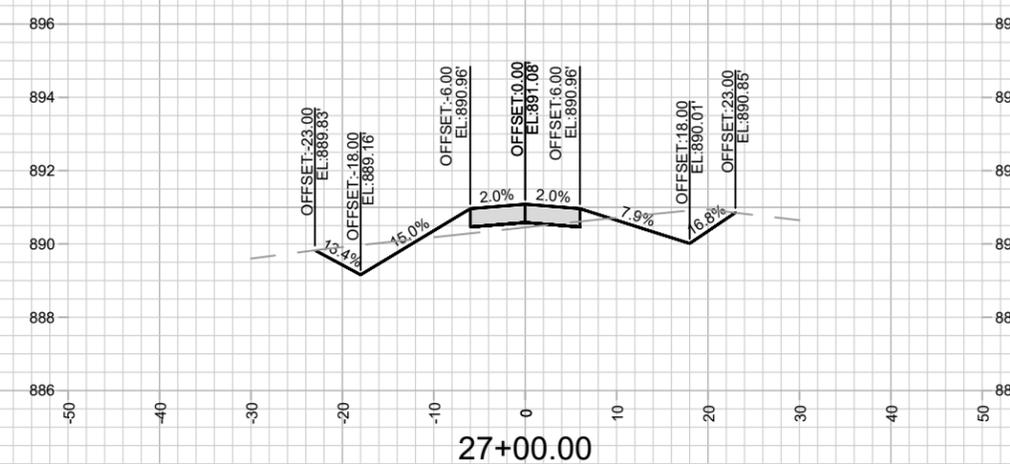
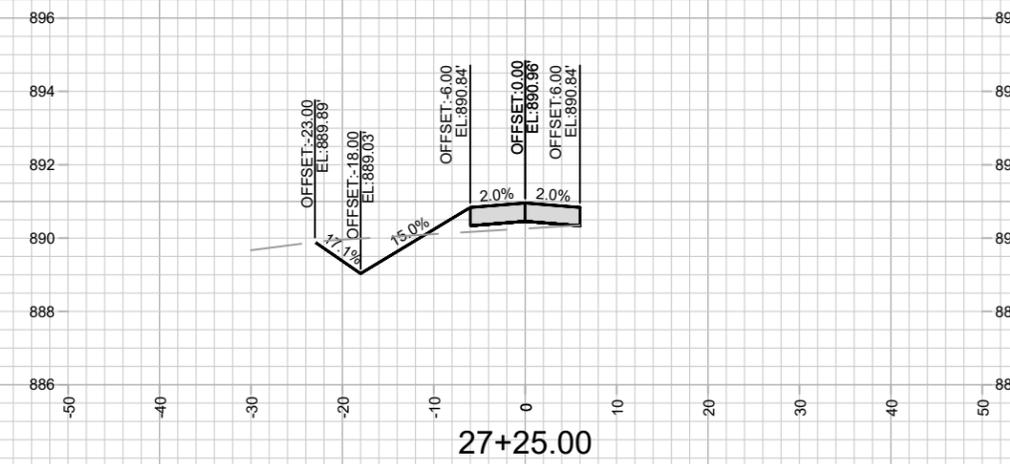
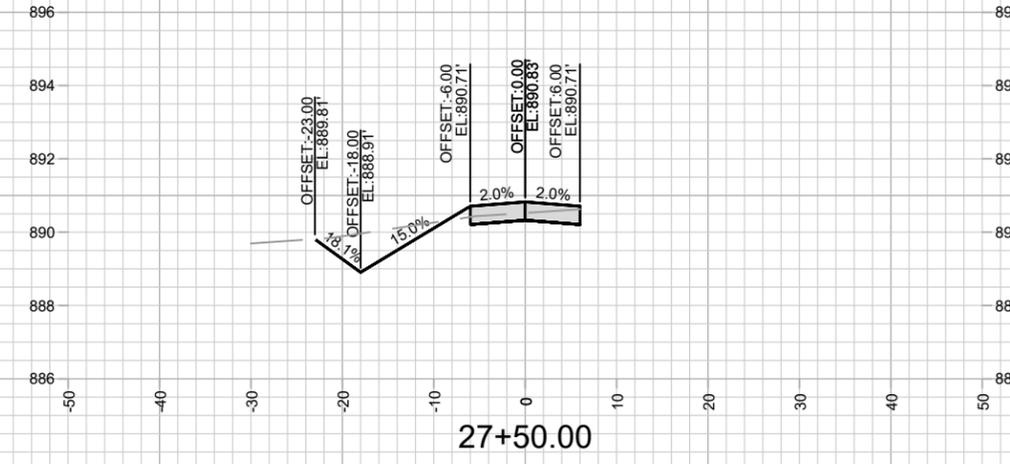
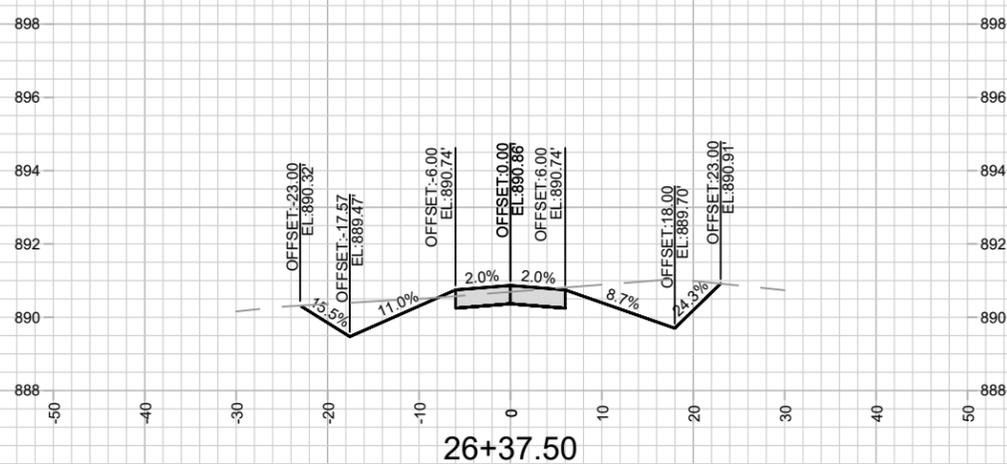
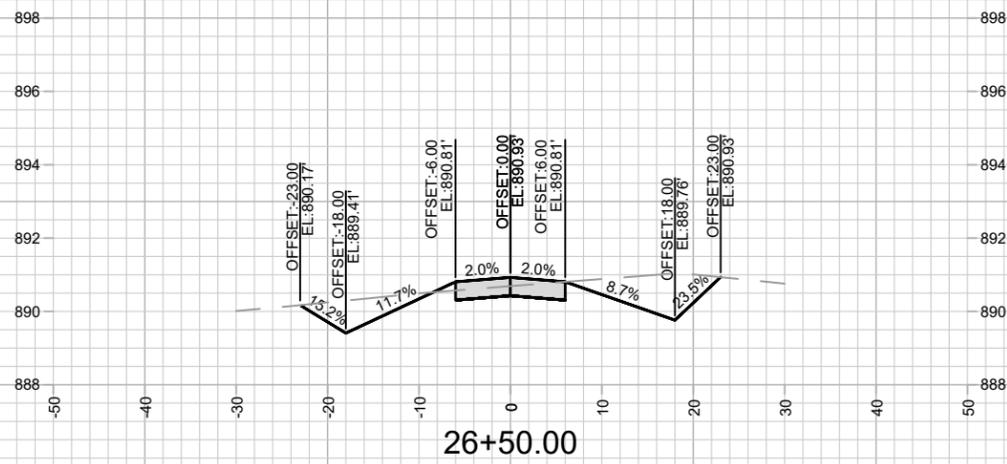
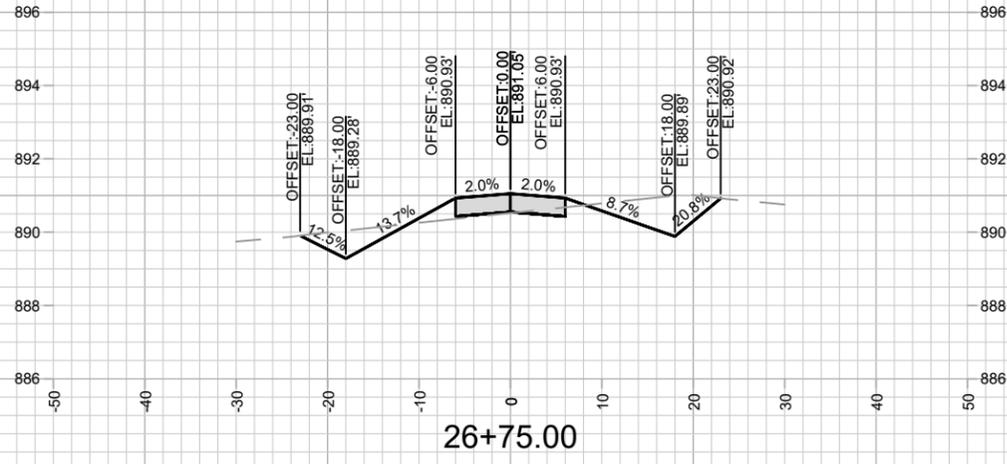
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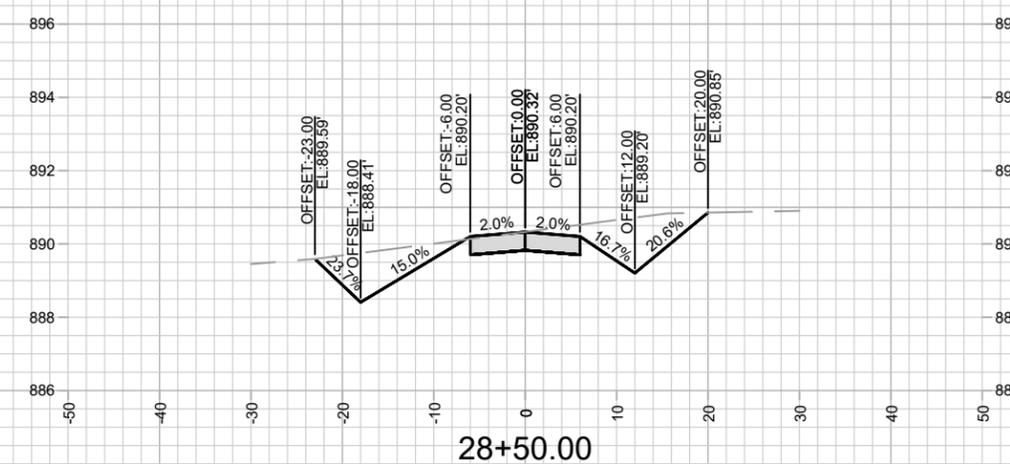
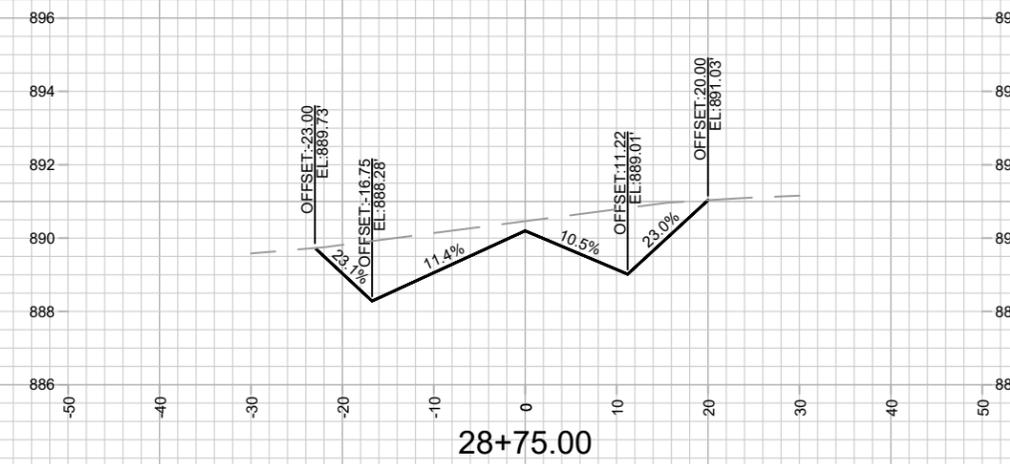
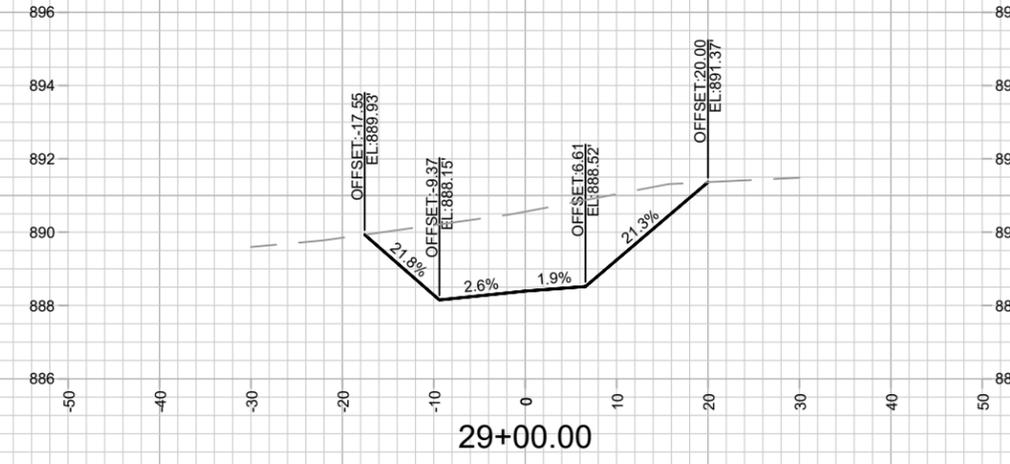
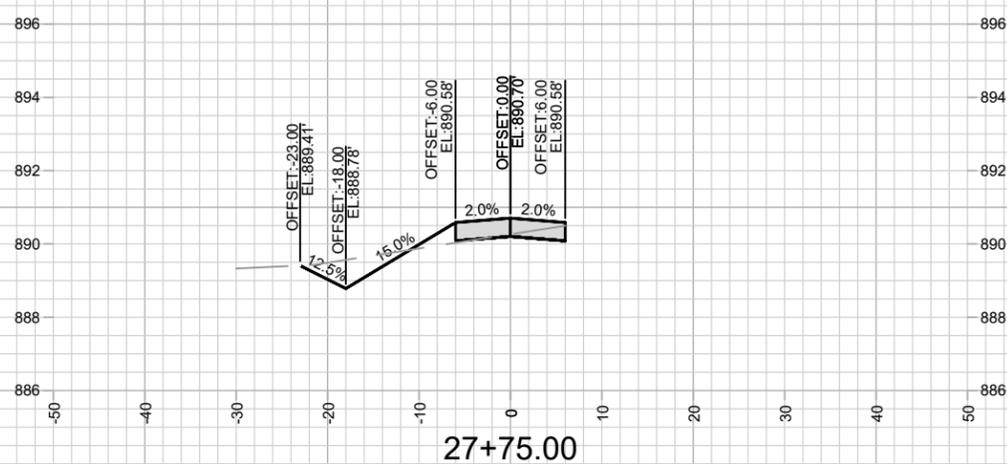
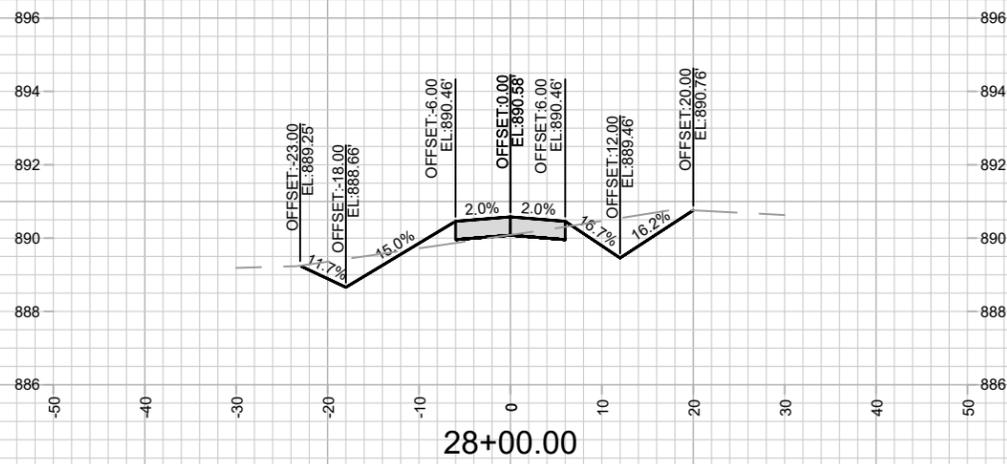
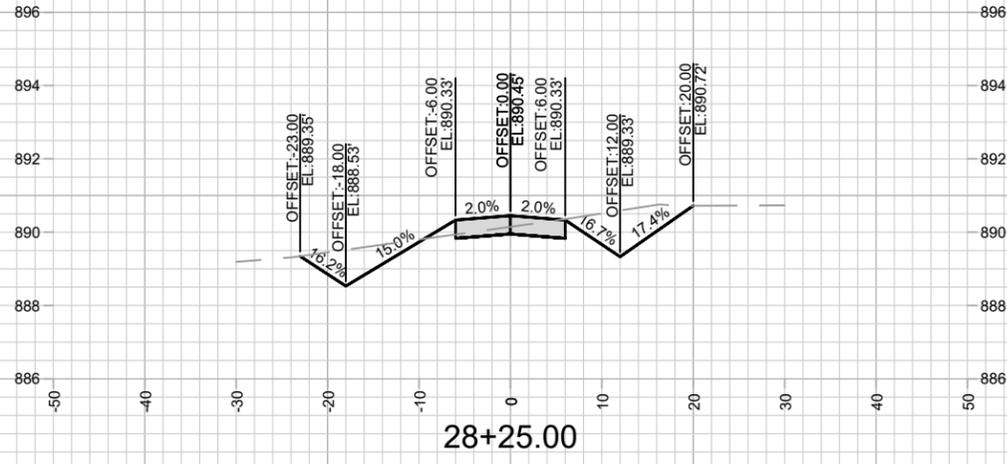
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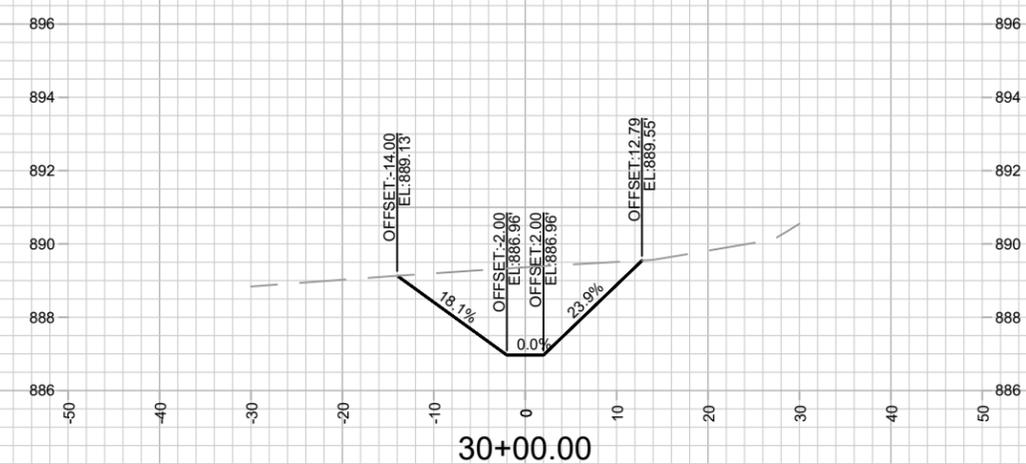
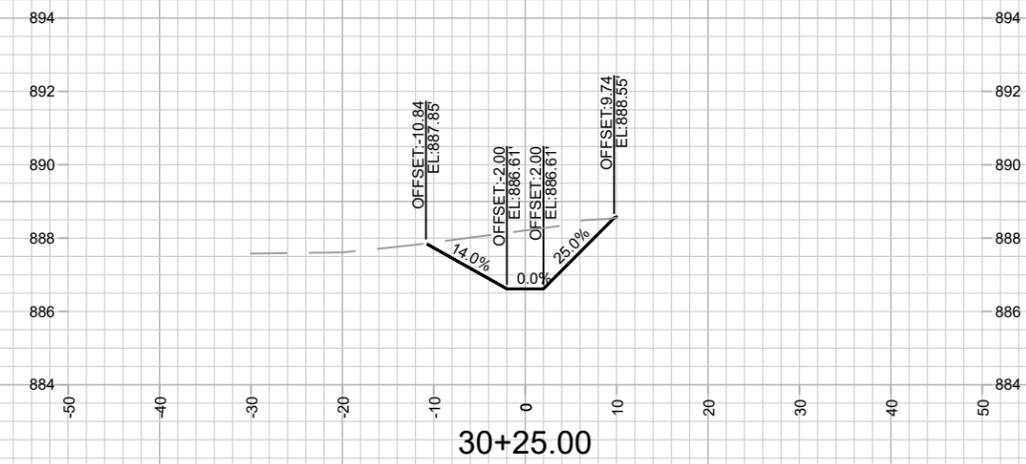
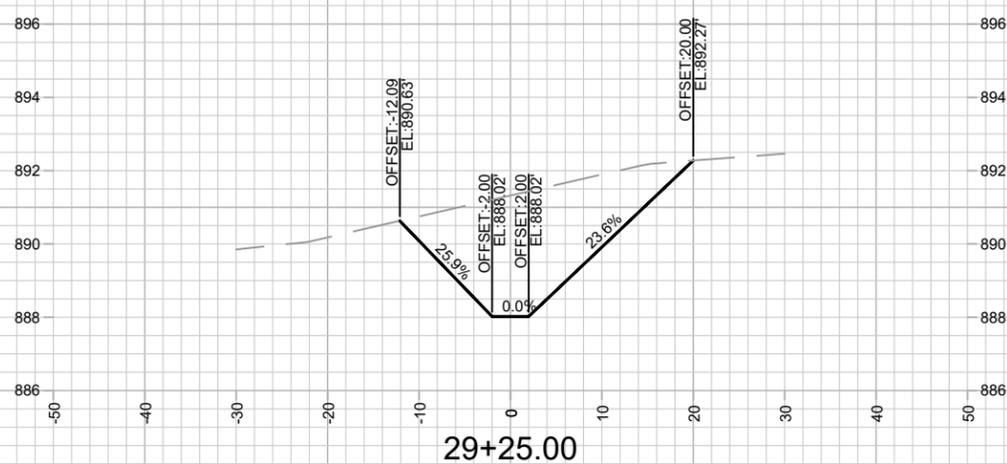
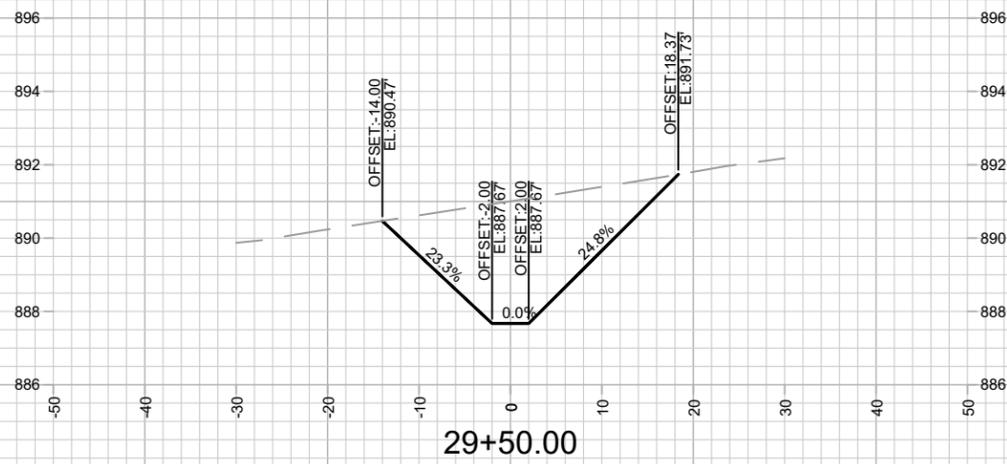
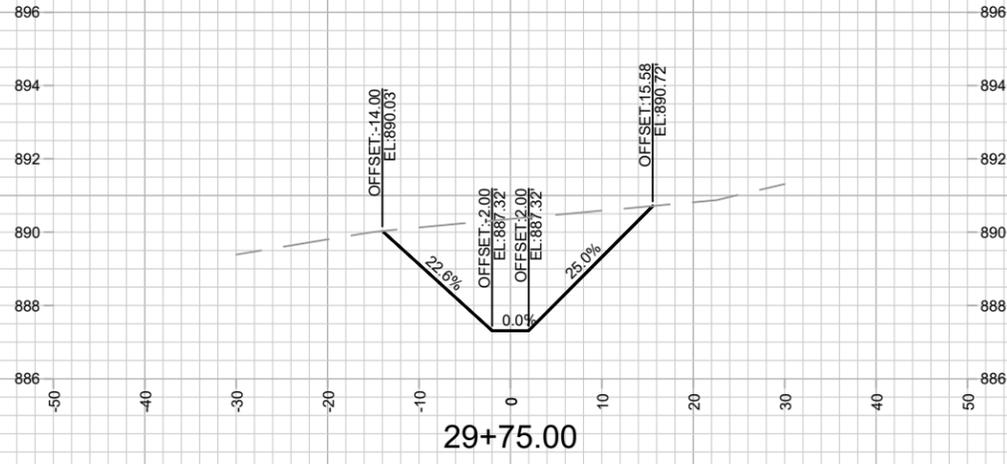
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9481
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LUDS LANE AND FEMRITE DRIVE CSM

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X-19

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.

14950
 MADISON, WI
 CONTRACT NO: 9481
 LUDS LANE AND FEMRITE DRIVE CSM
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MARK	REVISION	DATE	BY
14950	10/16/2024 7:14 AM	#####	MN-1