



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

JUNE 2, 2020

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Ch. Greg Price

May 14, 2021

City Engineer

Date

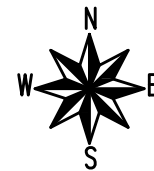
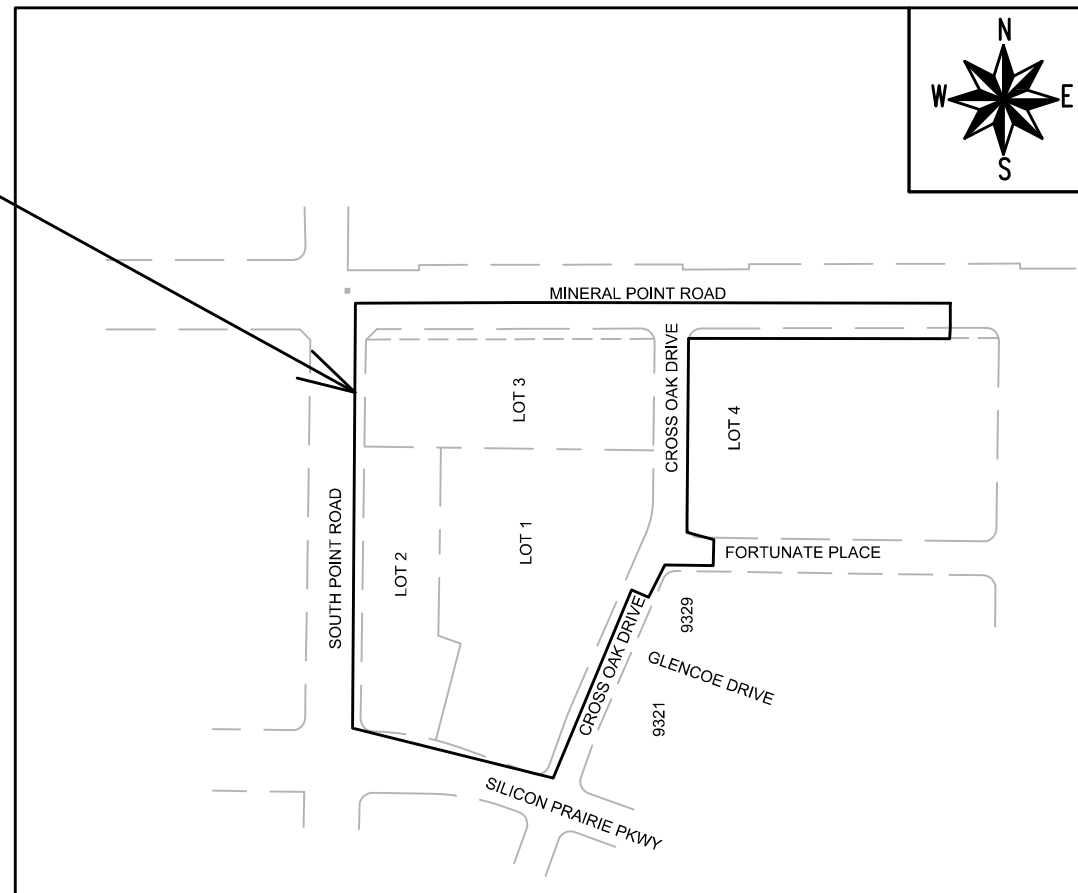
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USTM	STORM SEWER SCHEDULE
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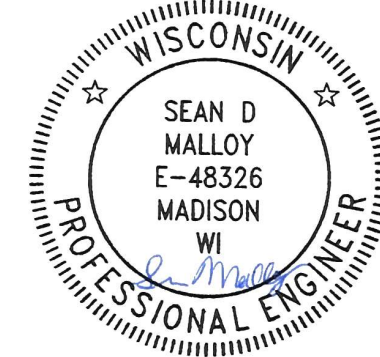
TWO POINTS CROSSING

CITY PROJECT NO. 12567
CONTRACT NO. 8517

PROJECT LOCATION

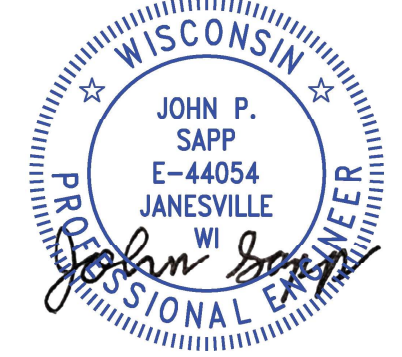


GEOMETRY & PAVEMENT MARKING PLAN DESIGNED BY:



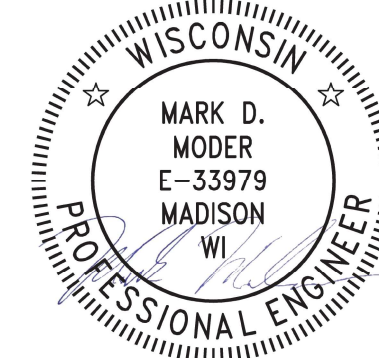
May 14, 2021

STREET DESIGNED BY:



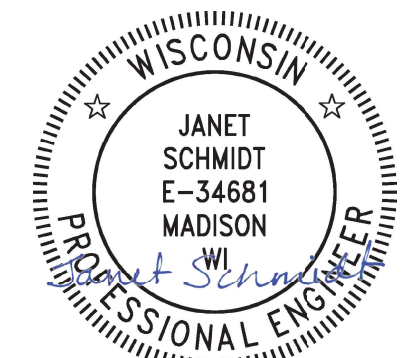
May 14, 2021

SANITARY SEWER DESIGNED BY:



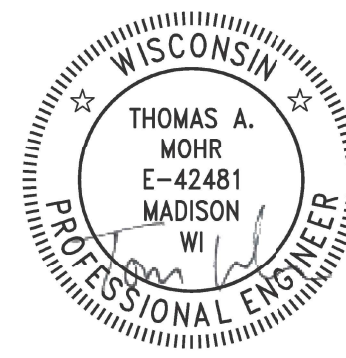
May 14, 2021

STORM SEWER DESIGNED BY:



May 14, 2021

TRAFFIC CONTROL PLAN DESIGNED BY:



May 14, 2021

WATER DESIGNED BY:



May 14, 2021

PLOT SCALE: 1" = 1'

PLOT NAME: ---

REV. DATE: 5/3/2021 8:35 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 PLAN IS 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 THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: 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: [HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM](https://www.cityofmadison.com/business/pw/specs.cfm)

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 PROJECT ENGINEER AND STREET DESIGNER KE OKAFOR AT OKAFOR@CITYOFMADISON.COM FOR CAD AND ALIGNMENT DATA PRIOR TO STAKING.

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

ALL PAVEMENT IN THE COUNTY HIGHWAY S / MINERAL POINT ROAD RIGHTS-OF-WAY SHALL BE TYPE C PAVEMENT PER STANDARD DETAIL DRAWING 4.02. ALL BASECOURSE WITHIN THE COUNTY HIGHWAY S / MINERAL POINT ROAD RIGHT-OF-WAY MUST BE PROOF ROLLED BY THE CONTRACTOR. CONTACT SUE LEBRUN OF DANE COUNTY HIGHWAY DEPARTMENT AT 575-2824 AT LEAST TWO BUSINESS DAYS IN ADVANCE OF WORK TO SCHEDULE PROOF ROLL INSPECTION. ANY SOFT SPOTS IDENTIFIED DURING PROOF ROLLING SHALL BE FIXED BY EXCAVATING BELOW THE SUBGRADE, BACKFILL, AND RECOMPACTION.

ALL PAVEMENT IN THE CROSS OAK DRIVE RIGHTS-OF-WAY SHALL BE TYPE A 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 BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. 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.

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.

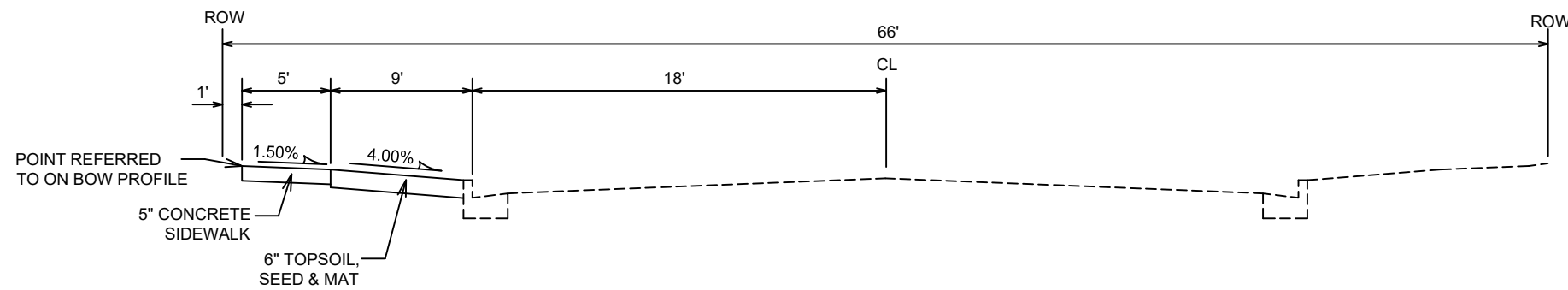
ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

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.

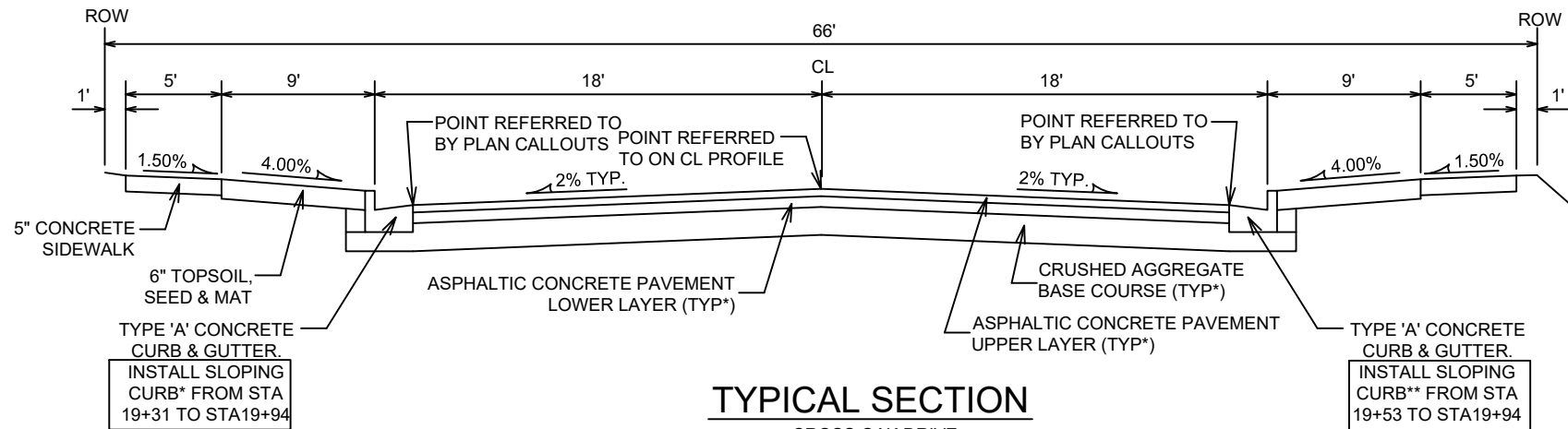
ALL WORK IN THE RIGHT OF WAY AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

12567	12567	REVISION	DATE	BY	Scale: #####/###
MARK	12567	Date: 1/11/2021 12:18 PM			D-1
STANDARD NOTES AND COMMENTS		MADISON, WI			
TWO POINTS CROSSING		CONTRACT NO: 8517			
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12567					
D-1					



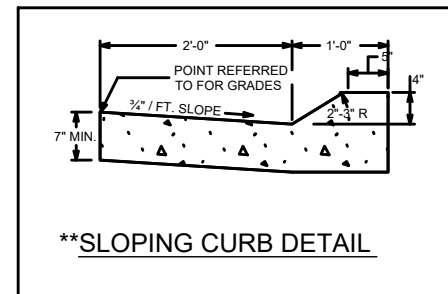
TYPICAL SECTION

CROSS OAK DRIVE
STA 10+19 TO STA 14+65
NOT TO SCALE



TYPICAL SECTION

CROSS OAK DRIVE
STA 14+65 TO STA 19+94
NOT TO SCALE



****SLOPING CURB DETAIL**

NOTES:

- * CROSS OAK DRIVE SHALL BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN †
- THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL SURFACE PAVING AS PART OF THIS CONTRACT

CITY OF MADISON MINIMUM PAVEMENT DESIGN †

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
B	6"	6"	3 LT 58-28 S	2.50"	4 LT 58-28 S	2.00"
C	6"	6"	3 MT 58-28 S/H	3.50"	4 MT 58-28 S/H	2.00"

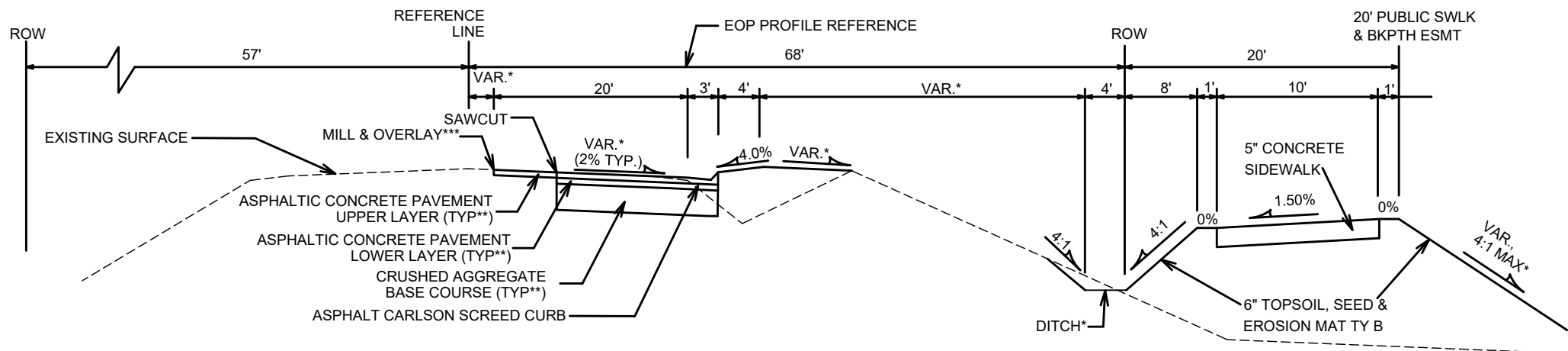
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12567
MADISON, WI
8517
CONTRACT NO:

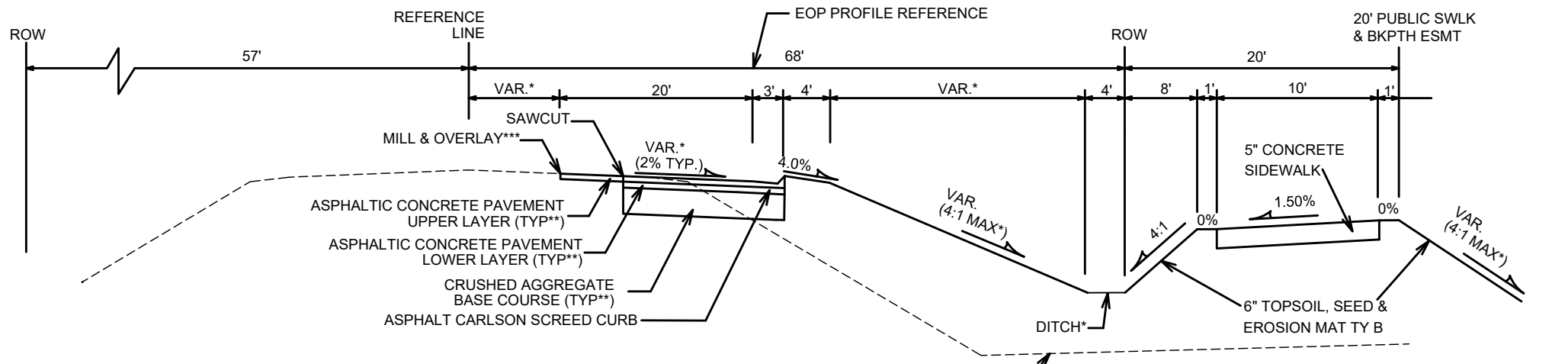
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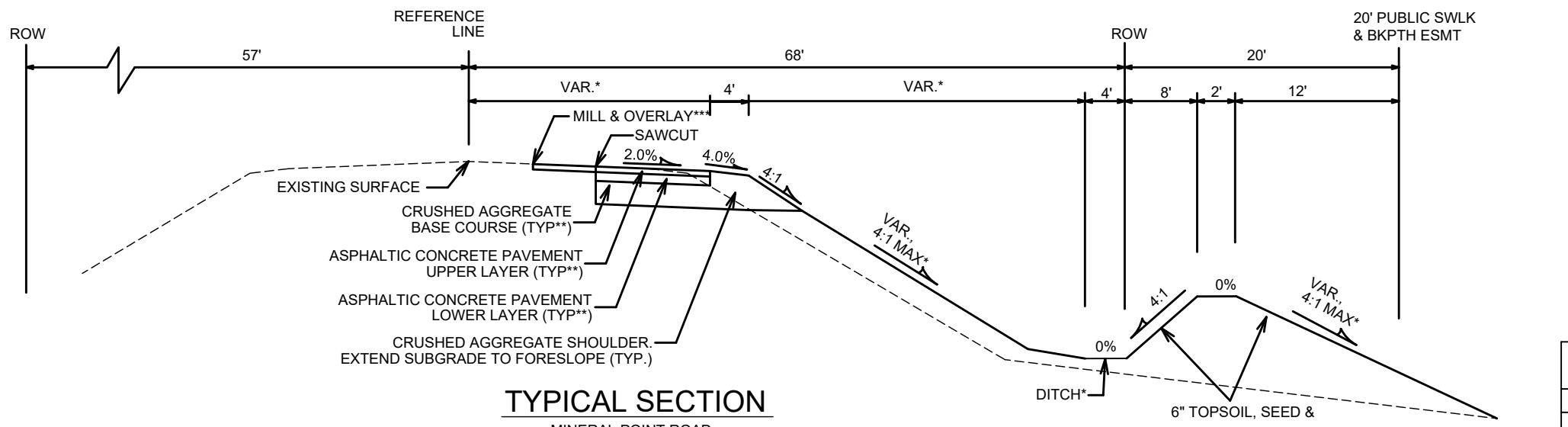
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D-2



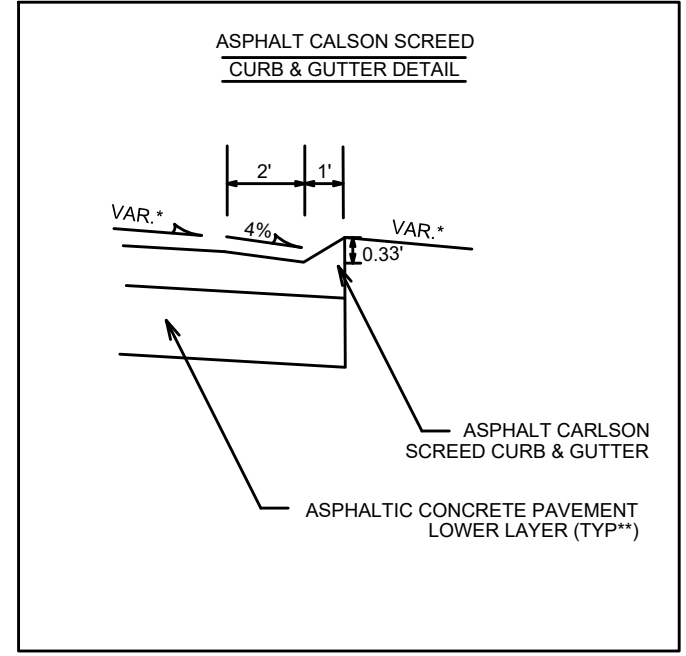
TYPICAL SECTION
 MINERAL POINT ROAD
 STA 209+42 TO STA 211+75
 NOT TO SCALE



TYPICAL SECTION
 MINERAL POINT ROAD
 STA 211+75 TO STA 213+83
 NOT TO SCALE



TYPICAL SECTION
 MINERAL POINT ROAD
 STA 215+36 TO STA 219+80
 NOT TO SCALE



- NOTES:
- * SEE CROSS SECTIONS FOR SLOPES, OFFSETS AND ELEVATIONS
 - ** MINERAL POINT ROAD SHALL BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN. †
 - *** MILL & OVERLAY LIMITS SHALL MATCH PROPOSED LANE MARKINGS.
 - THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL SURFACE PAVING AS PART OF THIS CONTRACT.
 - ALL BASECOURSE WITHIN THE COUNTY HIGHWAY S / MINERAL POINT ROAD RIGHT-OF-WAY MUST BE PROOF ROLLED BY THE CONTRACTOR. CONTACT SUE LEBRUN OF DANE COUNTY HIGHWAY DEPARTMENT AT 575-2824 AT LEAST TWO BUSINESS DAYS IN ADVANCE OF WORK TO SCHEDULE PROOF ROLL INSPECTION. ANY SOFT SPOTS IDENTIFIED DURING PROOF ROLLING SHALL BE FIXED BY EXCAVATING BELOW THE SUBGRADE, BACKFILL, AND RECOMPACTION.

CITY OF MADISON MINIMUM PAVEMENT DESIGN †

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	6"	4 LT 58-28 S	1.75"	4 LT 58-28 S	1.75"
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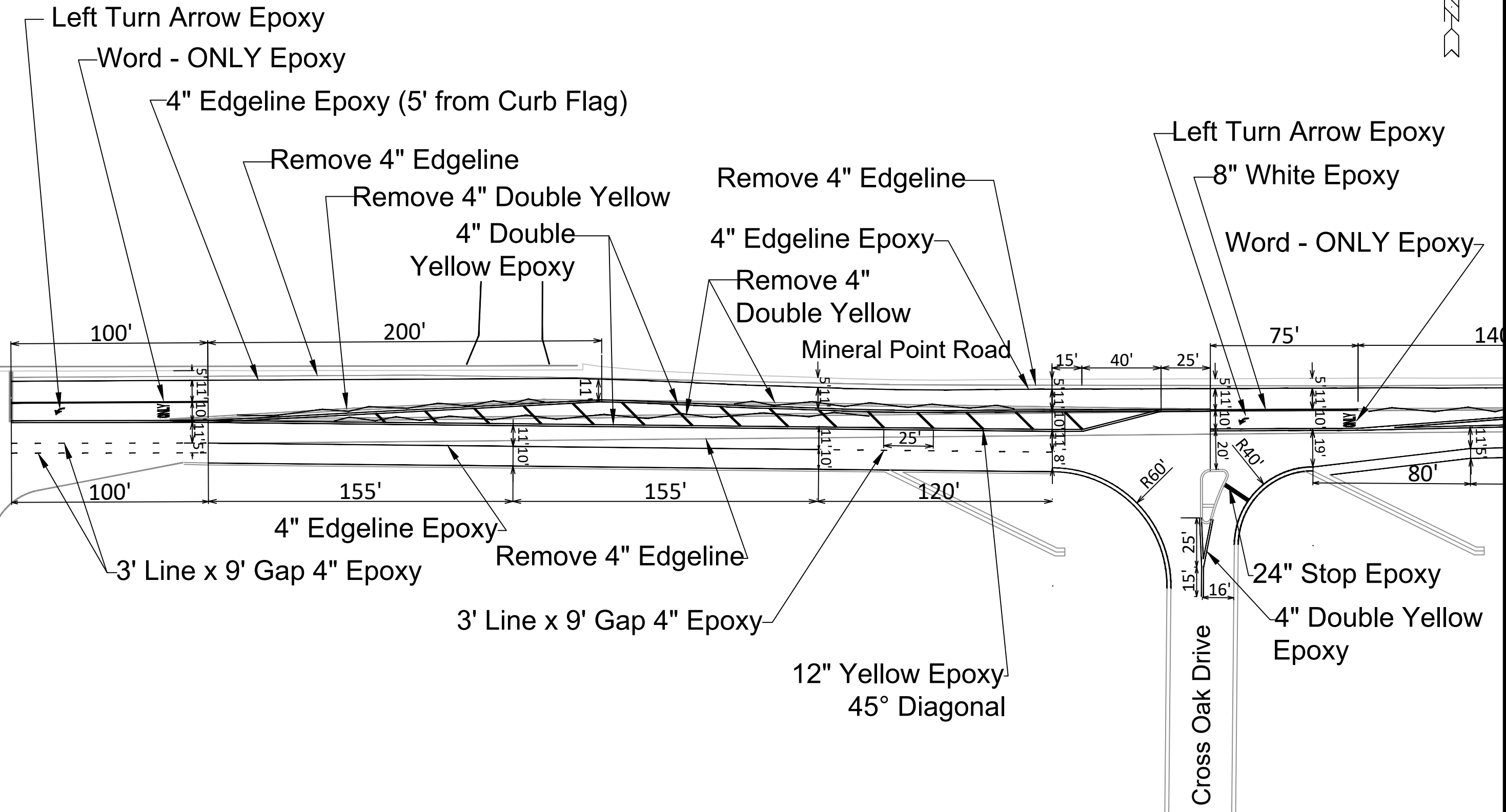
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REVISION	BY
DESIGNED BY: JPS	DATE: 4/30/2021 11:38 AM
MARK	Scale: #####
12567	D-3

12567
 MADISON, WI
 8517
 CONTRACT NO:

TYPICAL SECTION
 TWO POINTS CROSSING
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12567
 D-3



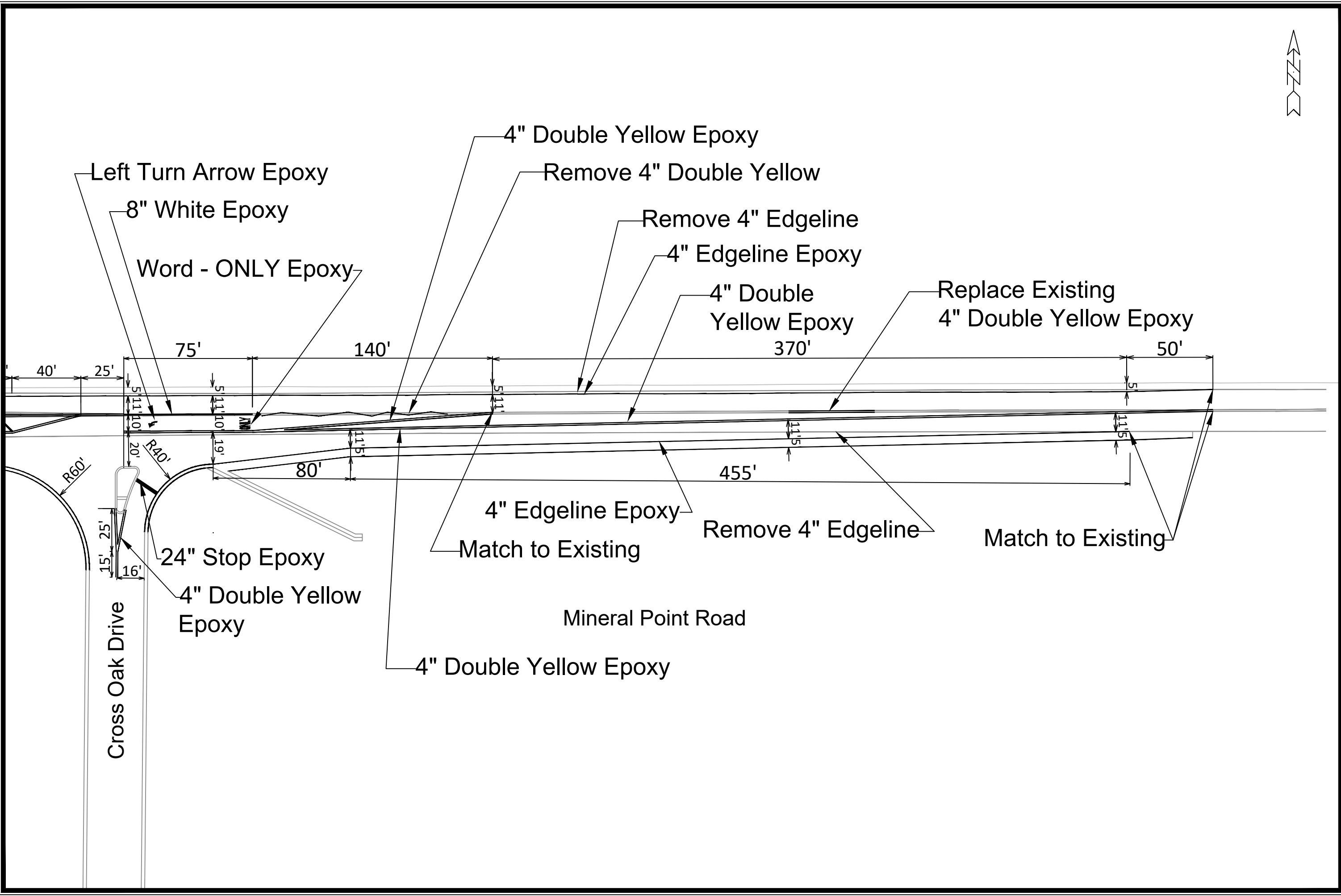
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12567
MADISON, WI
CONTRACT NO: ---

MARKING PLAN
TWO POINTS CROSSING
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12567
M-1



MARK	REVISION	DATE	BY
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			M-2

MARKING PLAN
 12567
 TWO POINTS CROSSING
 MADISON, WI
 CONTRACT NO: ----
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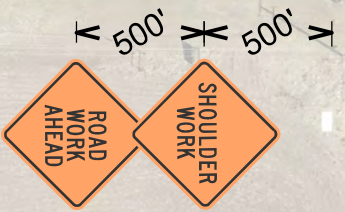
12567
 M-2



PHASE 1 NOTES:
 1. EXISTING SPEED LIMIT IS 45 MPH
 2. SIGN SPACING IS 500'
 3. WORK IN THIS PHASE WILL OCCUR OFF THE SOUTH SHOULDER OF MINERAL POINT ROAD.
 4. MINIMUM LANE WIDTH IS 10'.

Bear Claw Way

Mineral Point Rd



South Point Rd

TRAFFIC BARRELS WITH LIGHTS SPACED AT MAXIMUM 45'.

Cross Oak Dr

MATCHLINE

MATCHLINE

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PHASE 1 NOTES:
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500'

MATCHLINE

MATCHLINE

Cross Oak Dr

Mineral Point Rd

TRAFFIC BARRELS
 SPACED AT MAXIMUM 45'.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



MATCHLINE

MATCHLINE

Bear Claw Way

Mineral Point Rd

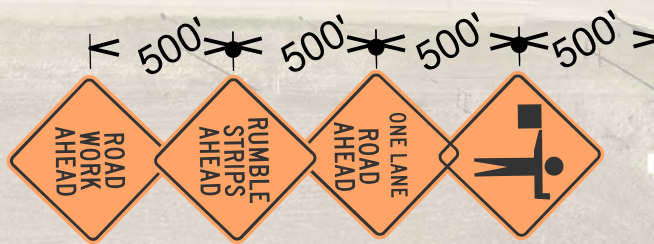
Cross Oak Dr

South Point Rd



500'

500'



500'

500'

500'

500'

500'

500'



TRAFFIC BARRELS SPACED AT MAXIMUM 45'.

FLAGGING OPERATION NOTES:

1. FLAGGING OPERATIONS TO BE USED FOR ROAD WIDENING, ASPHALT MILLING, AND ASPHALT PAVING.
2. WHEN FLAGGING WITHIN SOUTH POINT ROAD INTERSECTION, PLACE SOUTH POINT ROAD SIGNAL ON FLASH. CONTACT CITY OF MADISON TRAFFIC ENGINEERING, (608) 266-4767 AT LEAST 24 HOURS PRIOR TO HAVE SIGNALS PLACED IN FLASH.
3. EXISTING SPEED LIMIT IS 45 MPH
4. SIGN SPACING IS 500'.
5. THE FLAGGERS SHALL USE APPROPRIATE FLAGGING PROCEDURES ACCORDING TO THE MUTCD & WISDOT S.D.D. 15C12.
6. MINIMIZE WORK ZONE LENGTH DURING FLAGGING TO MAINTAIN LINE OF SIGHT BETWEEN FLAGGERS.
7. MINERAL POINT ROAD SHALL BE OPEN TO TWO LANES OF TRAFFIC DURING PEAK TRAFFIC TIMES (WEEKDAYS FROM 7:00 A.M. TO 9:00 A.M. AND 3:30 P.M. 6:00 P.M.) AND DURING NIGHT TIME HOURS.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



MATCHLINE

TRAFFIC BARRELS
SPACED AT MAXIMUM 45'



500' 500' 500' 500'

Mineral Point Rd

Cross Oak Dr

MATCHLINE

FLAGGING OPERATION NOTES:

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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



LANE
CLOSED
48"x 30"

Bear Claw Way

Mineral Point Rd

500'

500'



SIGN EB DETOUR ACCORDING
TO WISDOT S.D.D. 15C02-c
TO USE:
-S POINT RD
-VALLEY VIEW RD
-S PLEASANT VIEW RD

South Point Rd

ROAD CLOSED
TO
THRU TRAFFIC
60"x 30"

LANE
CLOSED
48"x 30"

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



BARRELS SPACED AT 35'
TO CLOSE ENTIRE LENGTH
OF RIGHT LANE (~17 BARRELS).
BARRELS SHOWN ARE
NOT TO SCALE.

LANE
CLOSED
48"x 30"

SIGN ON
TYPE III
BARRICADE

SIGN ON
TYPE III
BARRICADE

ROAD CLOSED
TO
THRU TRAFFIC
60"x 30"

ROAD CLOSED
TO
THRU TRAFFIC
60"x 30"

Mineral Point Rd

LANE
CLOSED
48"x 30"

ELECTRONIC FLASHING
ARROWBOARD
W/DOUBLE ARROWS

DETOUR
AHEAD
MINERAL POINT RD
ROAD
CLOSED
AHEAD

DETOUR
AHEAD
MINERAL POINT RD
ROAD
CLOSED
AHEAD

Mineral Point Rd

STAGGER BARRICADES
TO ALLOW LOCAL TRAFFIC
THROUGH.

Mineral Point Rd

DETOUR
MINERAL POINT RD

SIGN WB DETOUR
ACCORDING TO
WISDOT 15C02-c
TO USE:
-S PLEASANT VIEW RD
-VALLEY VIEW RD
-S POINT RD

BARRELS SPACED AT 35'
(~20 BARRELS)
BARRELS SHOWN ARE
NOT TO SCALE.

BARRELS SPACED AT 35'
TO CLOSE ENTIRE LENGTH
OF LEFT LANE. (~33 BARRELS)
BARRELS SHOWN ARE
NOT TO SCALE.

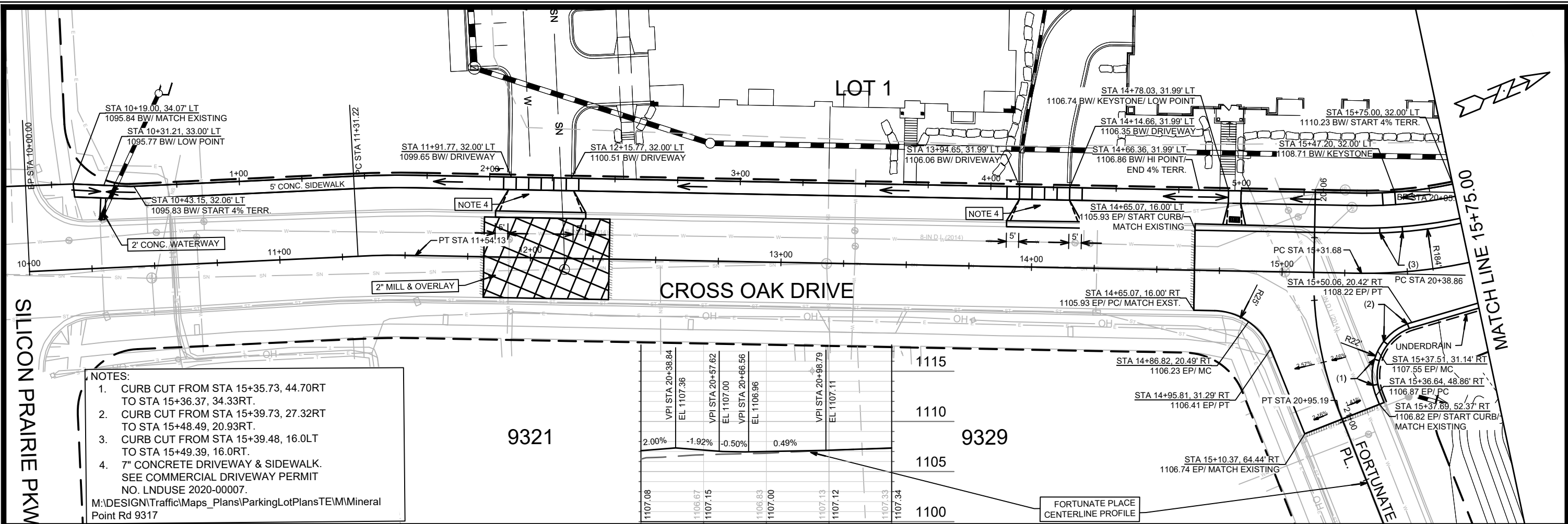
LANE
CLOSED
48"x 30"

Mineral Point Rd

ROAD
CLOSED
AHEAD
WESTBOUND
MINERAL POINT RD

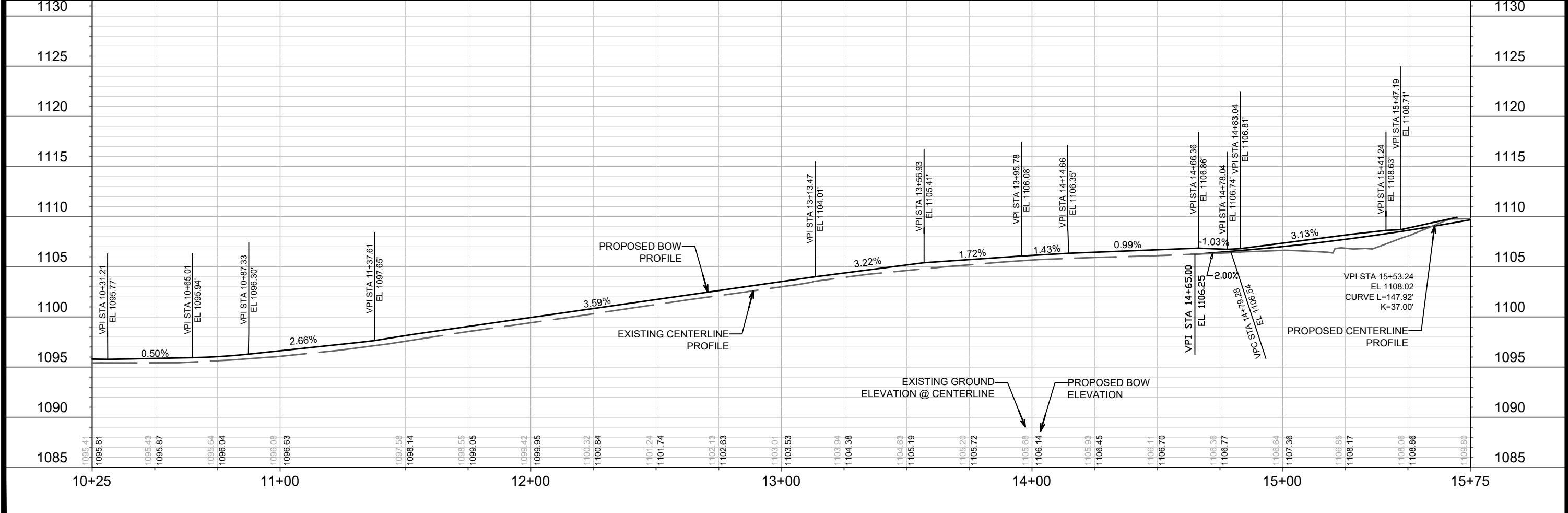
MINERAL POINT RD
DETOUR

PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

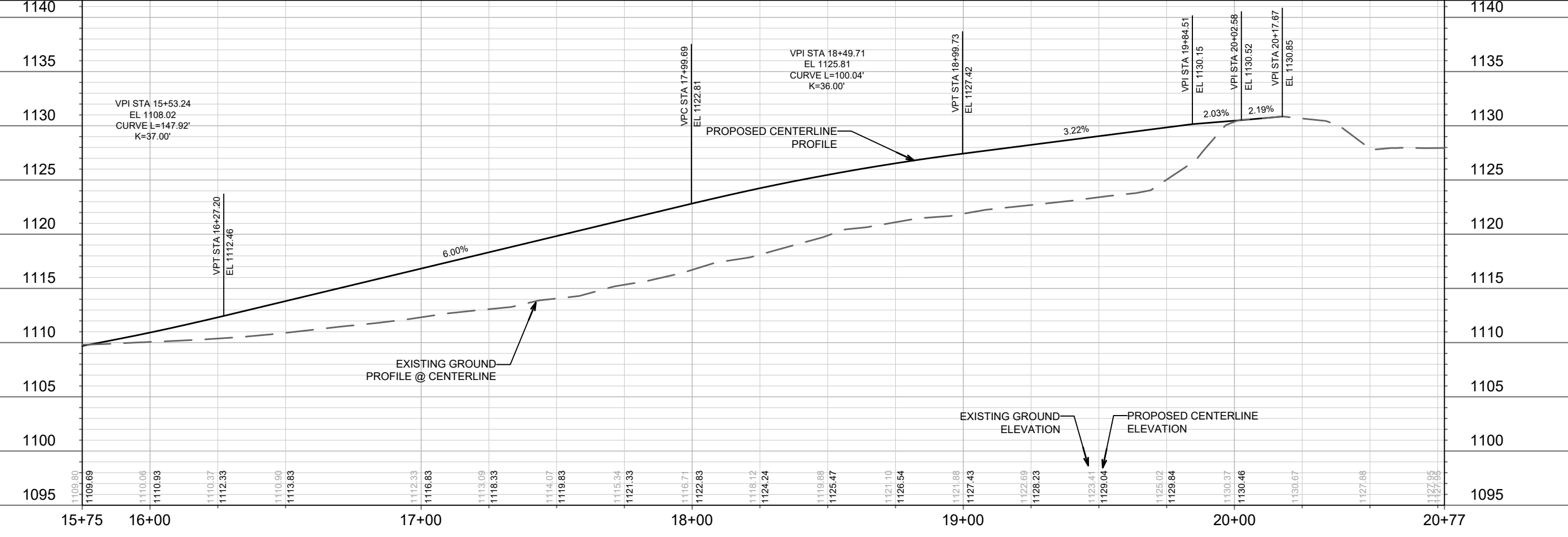
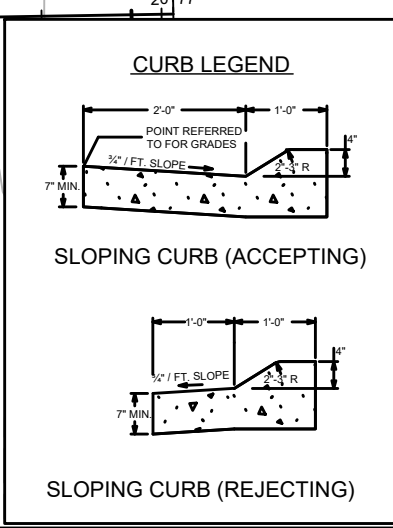
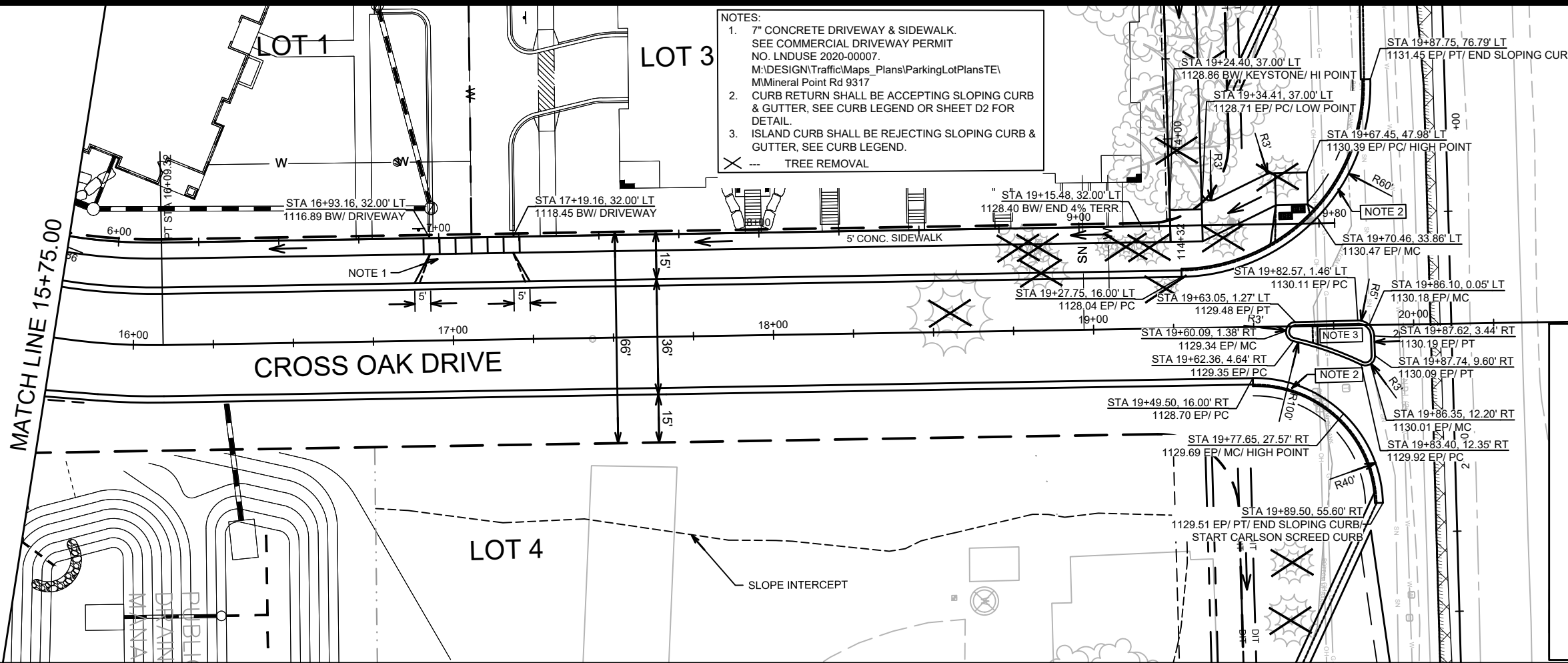


- NOTES:**
- CURB CUT FROM STA 15+35.73, 44.70RT TO STA 15+36.37, 34.33RT.
 - CURB CUT FROM STA 15+39.73, 27.32RT TO STA 15+48.49, 20.93RT.
 - CURB CUT FROM STA 15+39.48, 16.0LT TO STA 15+49.39, 16.0RT.
 - 7" CONCRETE DRIVEWAY & SIDEWALK. SEE COMMERCIAL DRIVEWAY PERMIT NO. LNDUSE 2020-00007.
- M:\DESIGN\Traffic\Maps_Plans\ParkingLotPlans\TEMM\Mineral Point Rd 9317

Station	Elevation	Station	Elevation
1107.08	1107.36	1107.13	1107.12
1106.67	1107.15	1107.12	1107.33
1107.15	1107.00	1107.33	1107.34
1106.63	1107.00	1107.33	1107.34
1107.00	1107.11	1107.33	1107.34
1107.13	1107.11	1107.33	1107.34
1107.12	1107.11	1107.33	1107.34
1107.33	1107.11	1107.33	1107.34
1107.34	1107.11	1107.33	1107.34



12567	MADISON, WI	8517	CONTRACT NO:
CROSS OAK DRIVE PLAN & PROFILE			
TWO POINTS CROSSING			
M:\DESIGN\Projects\12567\CAD\Streets\12567\EN-PNP.dwg			
12567			
P-1			



DATE	BY
REVISION	DATE
MARK	DESIGNED BY: IO
12567	12567
Scale: 1" = 40'	

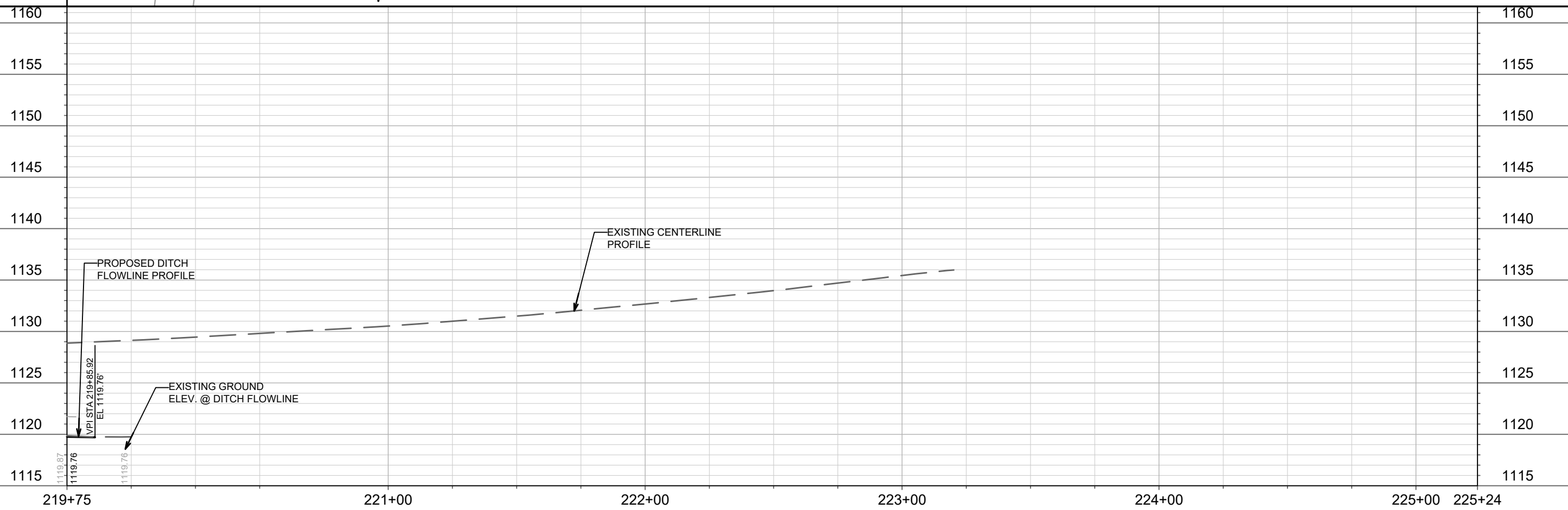
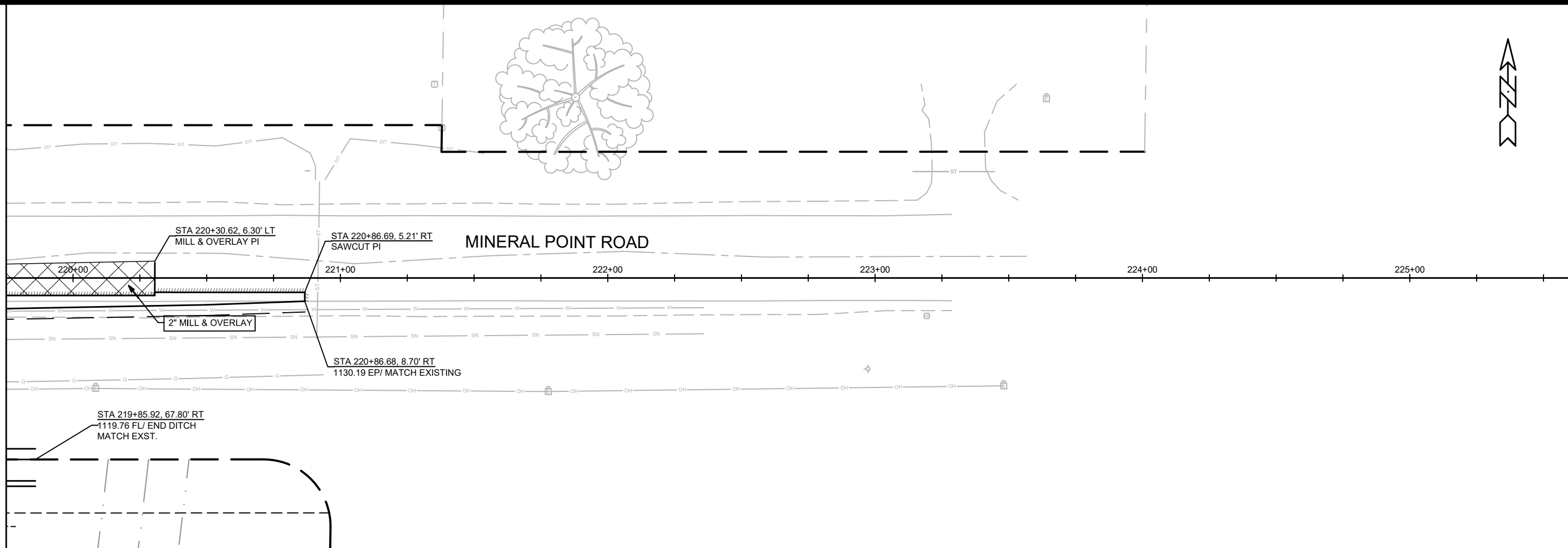
12567
MADISON, WI
8517
CONTRACT NO:

CROSS OAK DRIVE PLAN & PROFILE
TWO POINTS CROSSING
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CITY OF MADISON WISCONSIN

12567
P-2

MATCH LINE 219+75.00

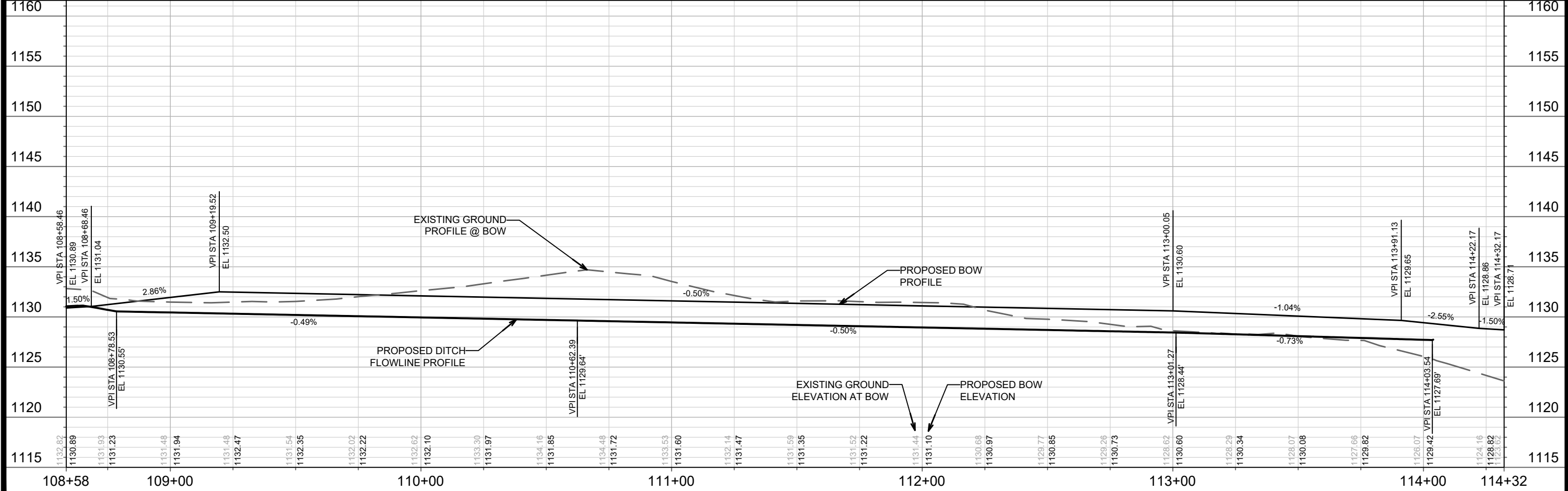
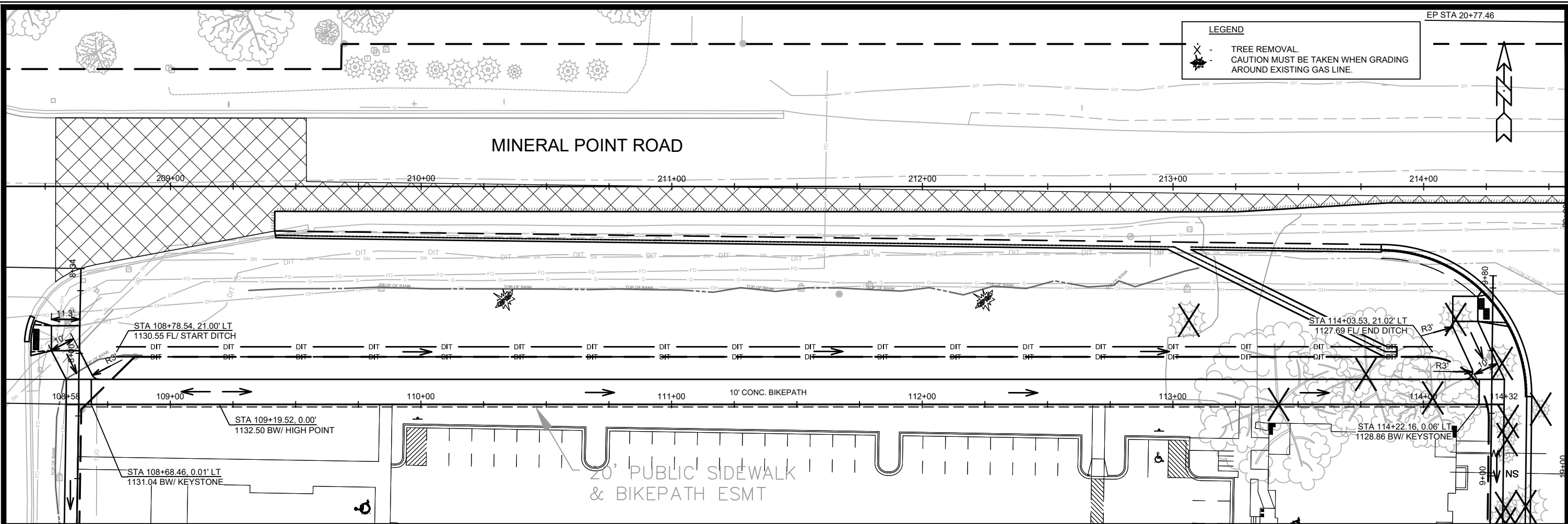


MARK	REVISION	DATE	BY
12567			
Designed By: ID	Date: 4/23/2021 8:19 AM	Scale: 1" = 40'	
P-5			

12567
 MADISON, WI
 CONTRACT NO: 8517
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12567
 P-5



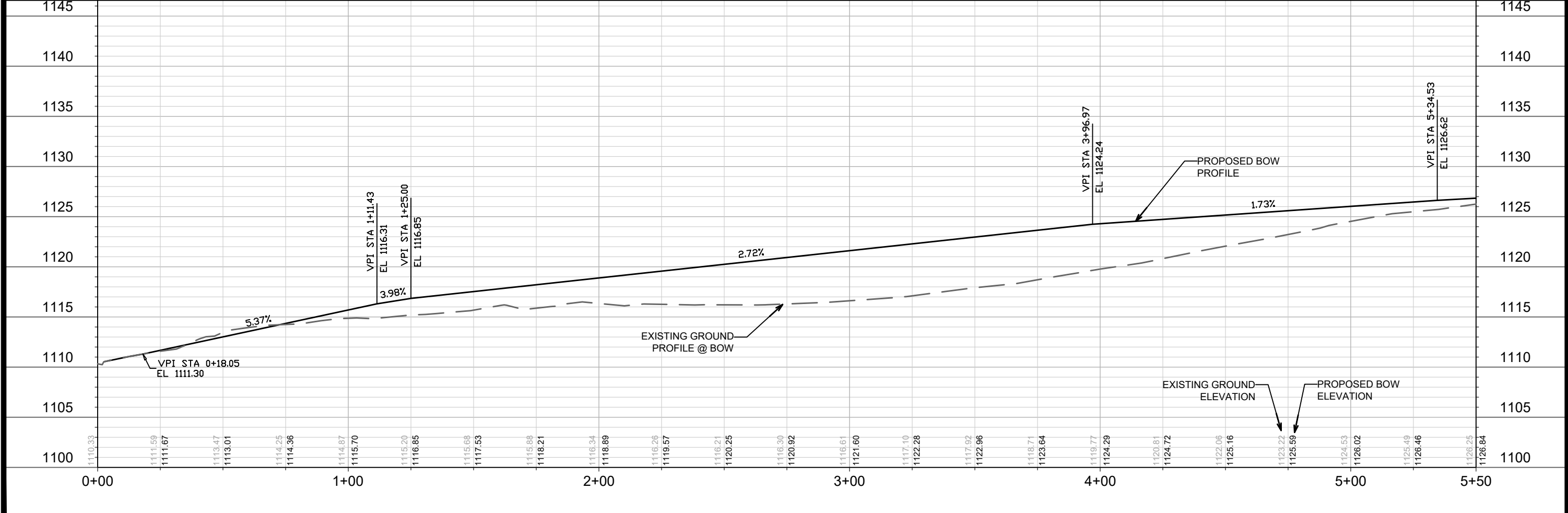
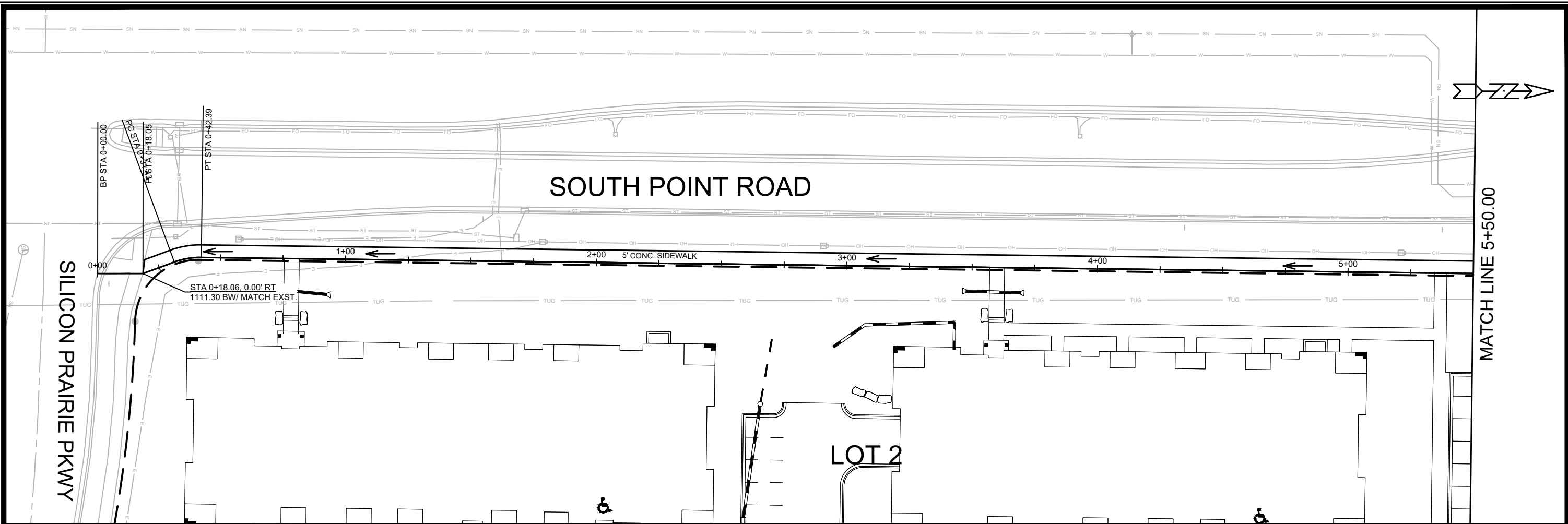
LEGEND
 ✕ TREE REMOVAL.
 CAUTION MUST BE TAKEN WHEN GRADING
 AROUND EXISTING GAS LINE.

MARK	REVISION	DATE	BY

12567
 MADISON, WI
 CONTRACT NO: 8517

MINERAL POINT PATH PLAN & PROFILE
 TWO POINTS CROSSING
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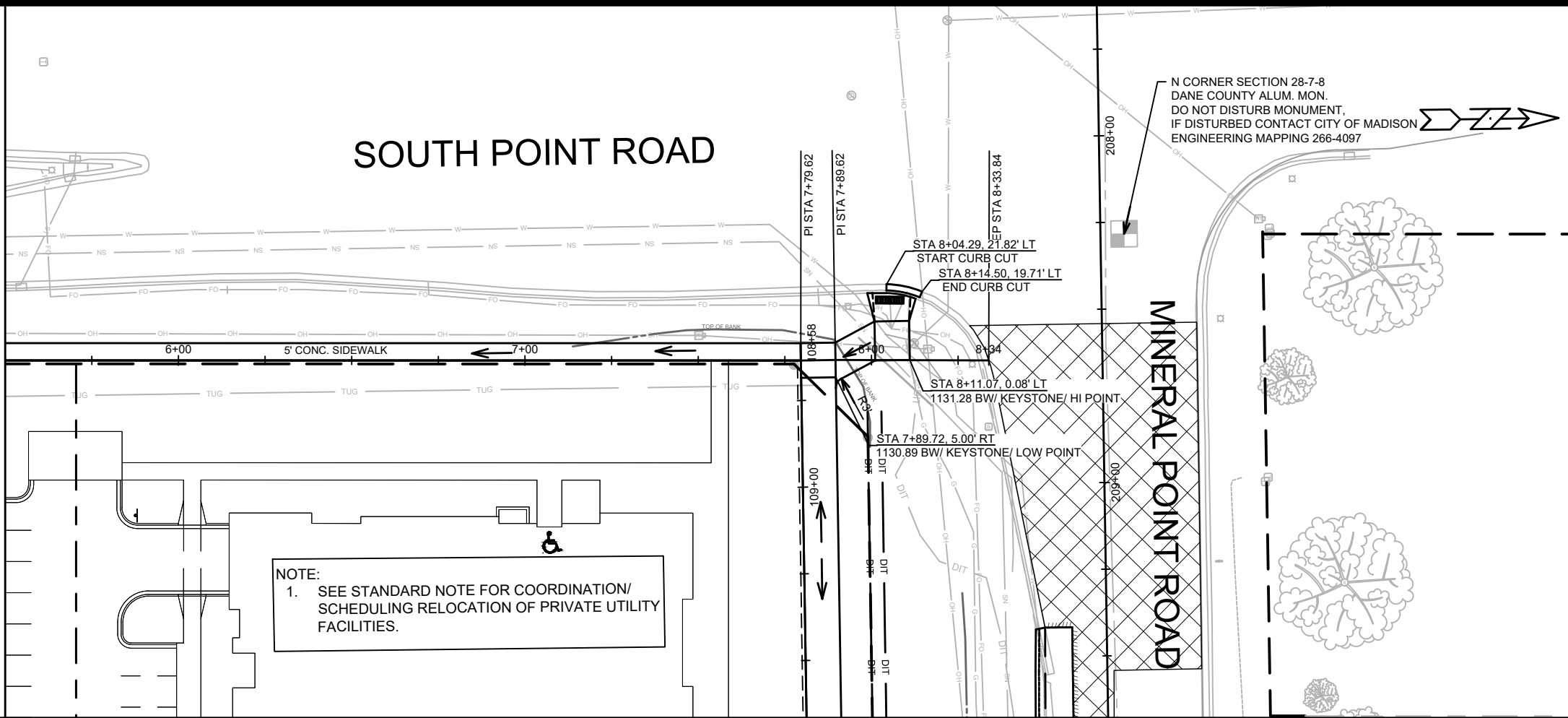
12567
MADISON, WI
CONTRACT NO: 8517

SOUTH POINT SIDEWALK PLAN & PROFILE
TWO POINTS CROSSING
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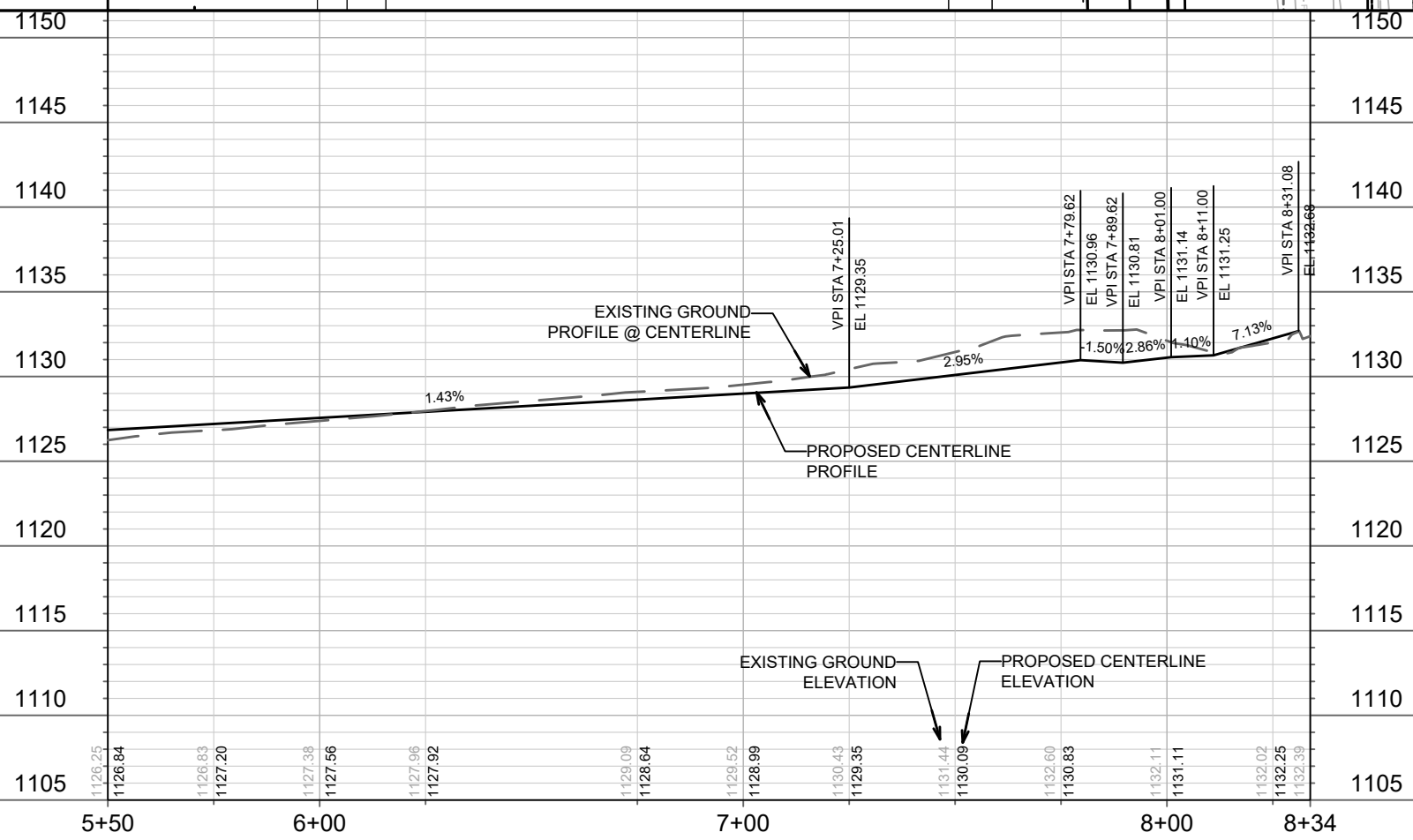
MATCH LINE 5+50.00

SOUTH POINT ROAD



N CORNER SECTION 28-7-8
DANE COUNTY ALUM. MON.
DO NOT DISTURB MONUMENT,
IF DISTURBED CONTACT CITY OF MADISON
ENGINEERING MAPPING 266-4097

MINERAL POINT ROAD

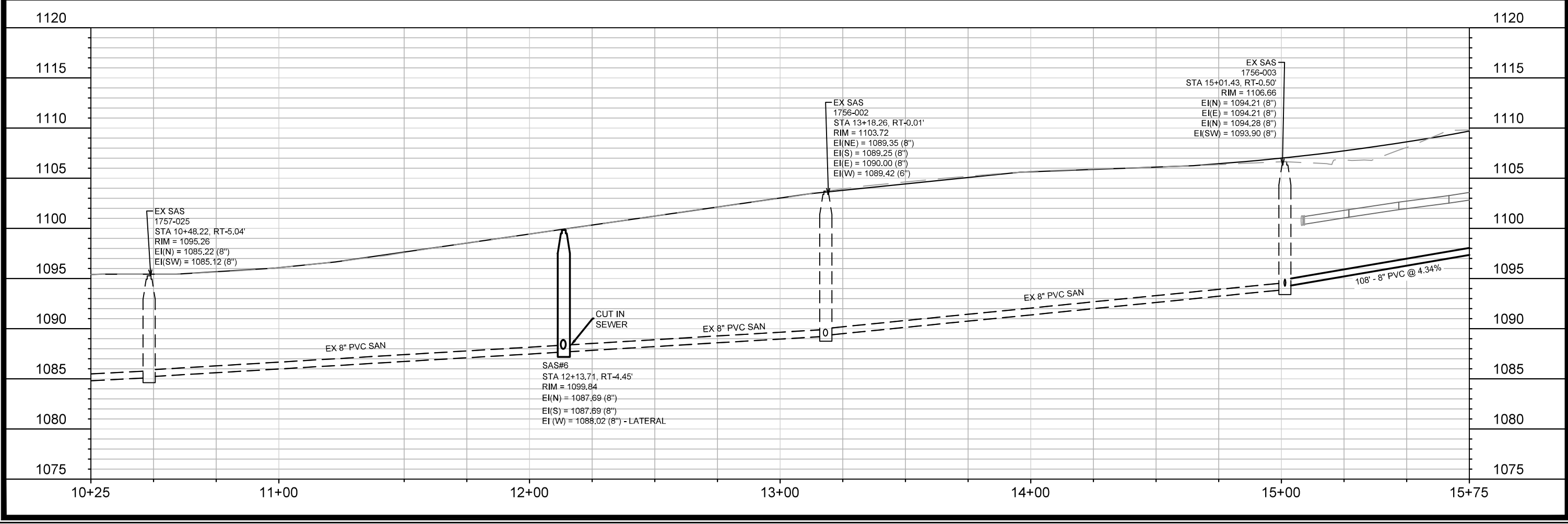
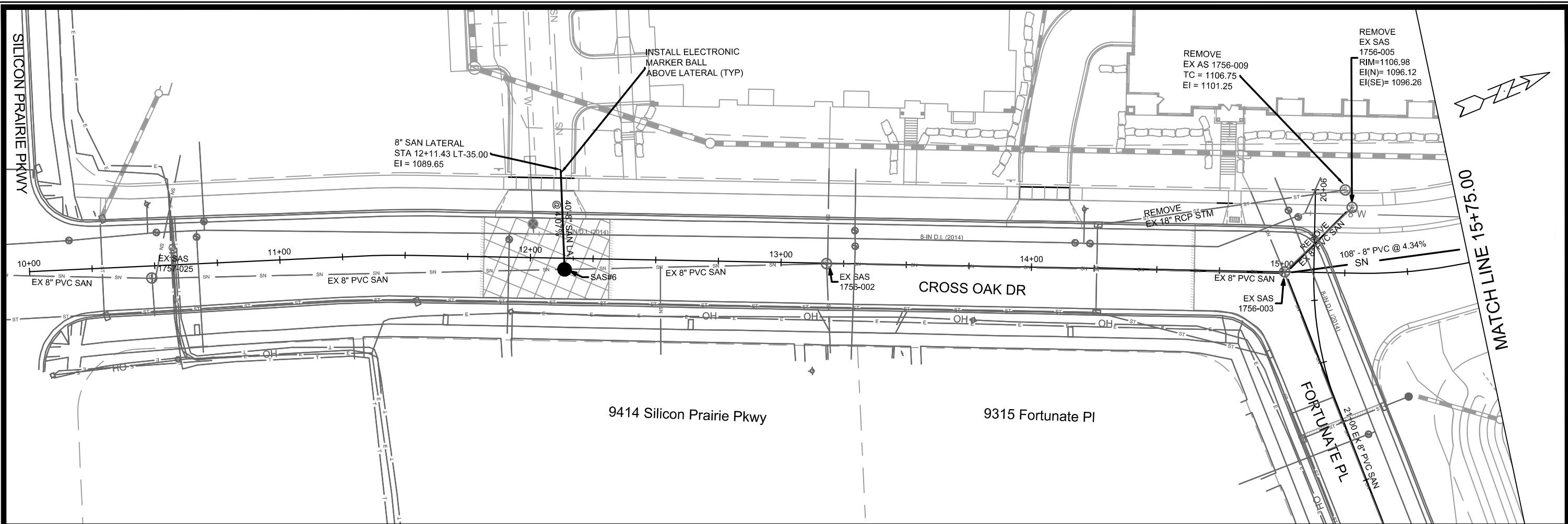


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12567		5/17/2021 10:08 AM	

12567
MADISON, WI
CONTRACT NO: 8517

SOUTH POINT SIDEWALK PLAN & PROFILE
TWO POINTS CROSSING
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12567
P-8

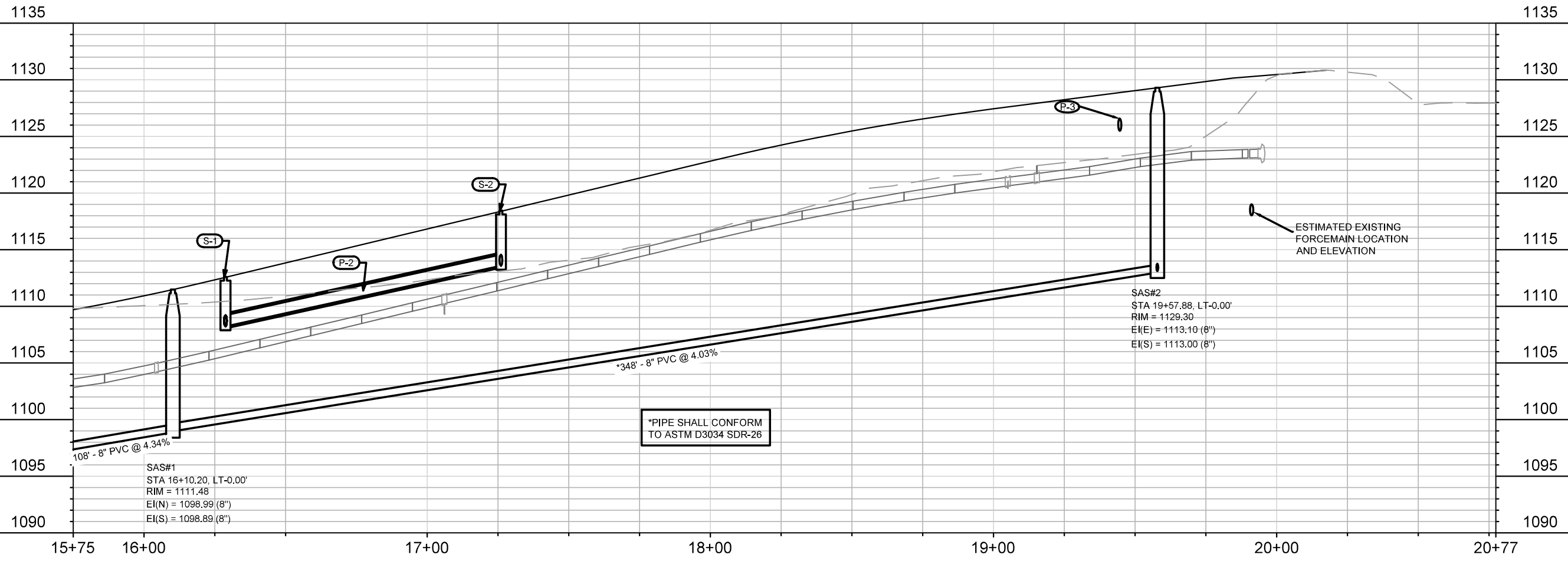
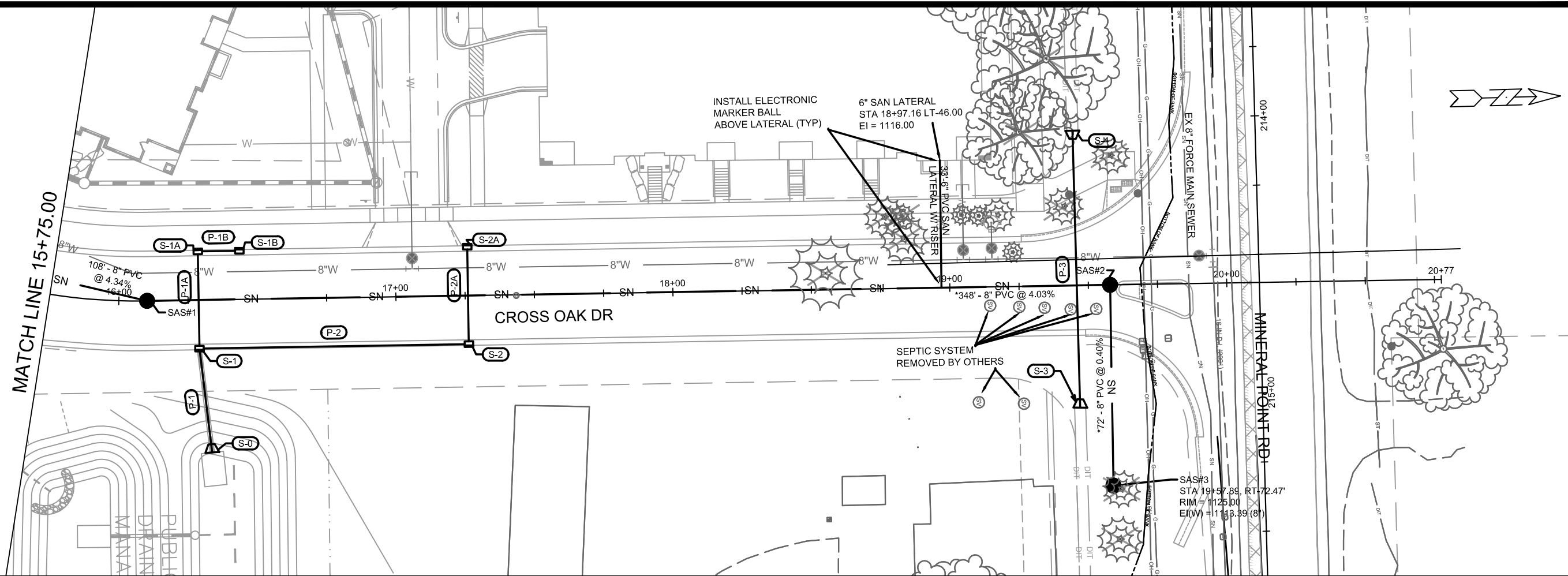


MARK	REVISION	DATE	BY
U-1		3/25/2021 7:37 AM	

12567
 MADISON, WI
 8517
 CONTRACT NO:

CROSS OAK DRIVE - UTILITIES PLAN & PROFILE
 TWO POINTS CROSSING
 M:\DESIGN\Projects\12567\CAD\Sanitary\12567TwoPointsCrossingSewers.dwg

12567
 U-1



*PIPE SHALL CONFORM TO ASTM D3034 SDR-26

SAS#1
 STA 16+10.20, LT-0.00'
 RIM = 1111.48
 EI(N) = 1098.99 (8")
 EI(S) = 1098.89 (8")

SAS#2
 STA 19+57.88, LT-0.00'
 RIM = 1129.30
 EI(E) = 1113.10 (8")
 EI(S) = 1113.00 (8")

ESTIMATED EXISTING
 FORCEMAIN LOCATION
 AND ELEVATION

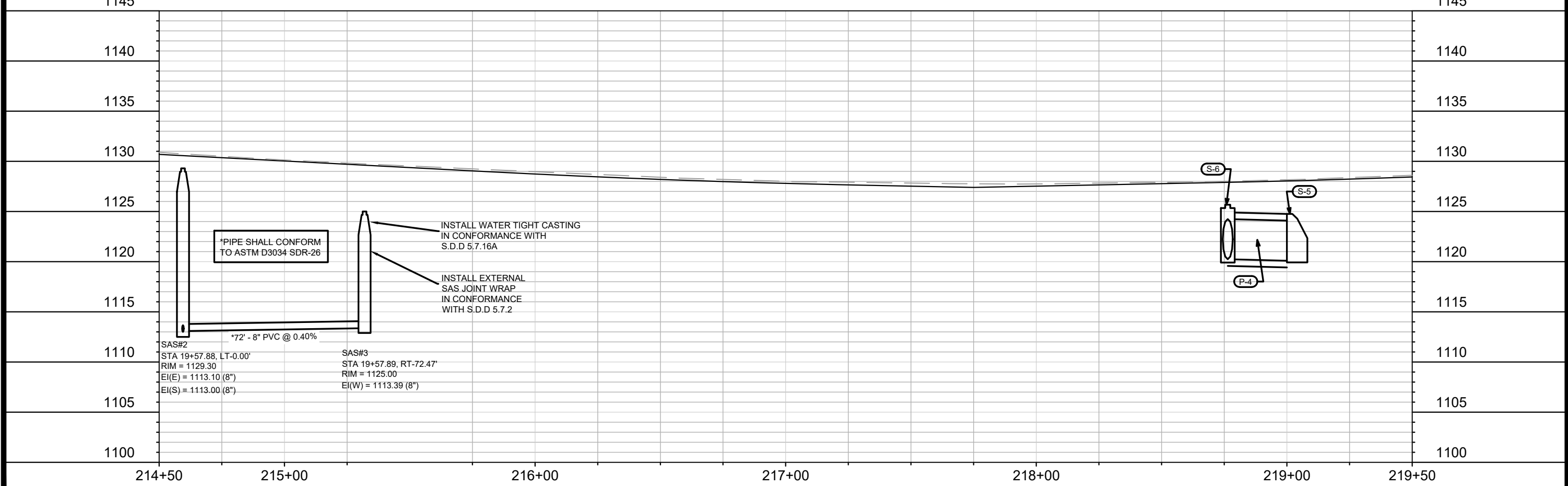
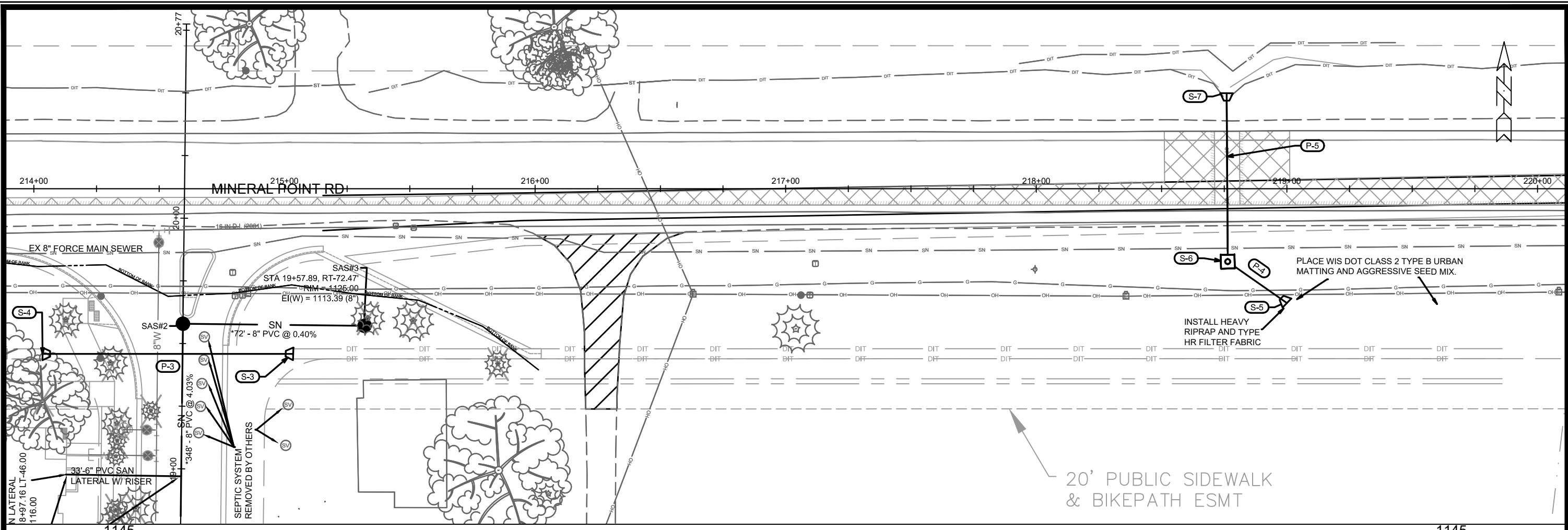
MARK	REVISION	DATE	BY
12567	U-2	3/25/2021 7:37 AM	EEA

12567
 MADISON, WI
 8517
 CONTRACT NO:

CROSS OAK DRIVE - UTILITIES PLAN & PROFILE
 TWO POINTS CROSSING
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12567
 U-2



DATE	BY
REVISION	
MARK	
DESIGNED BY: EEA	DATE: 4/27/2021 3:21 PM
Scale: 1" = 40'	U-3

12567	8517
MADISON, WI	CONTRACT NO.:

MINERAL POINT ROAD - UTILITIES PLAN & PROFILE

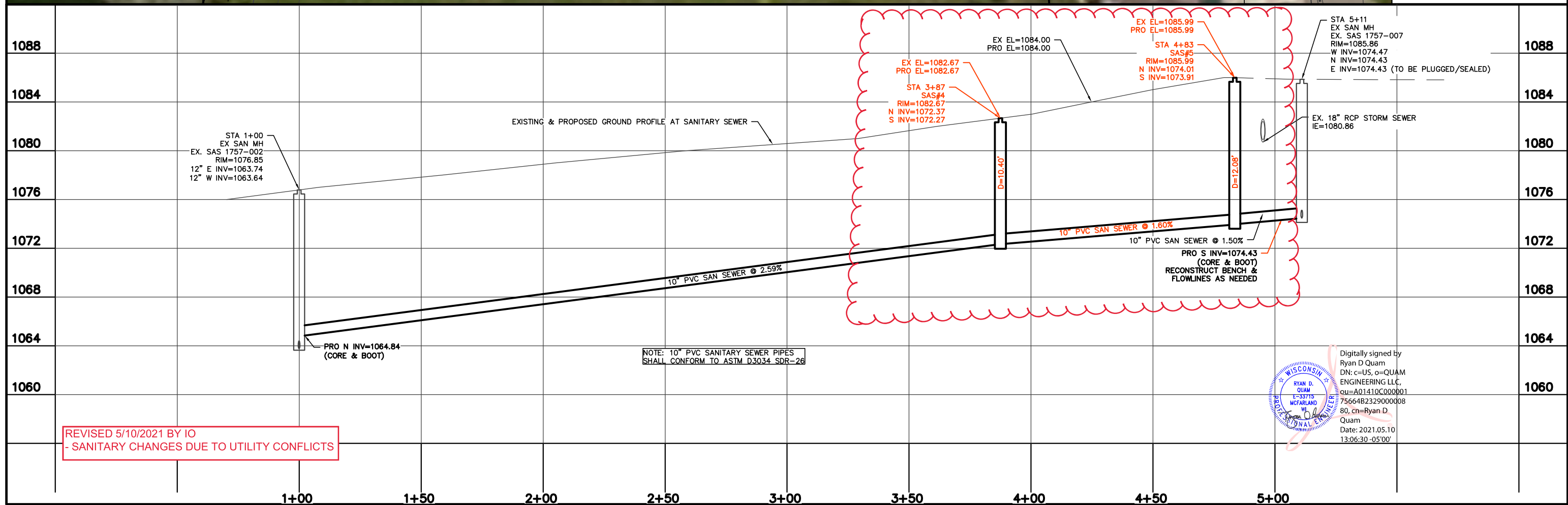
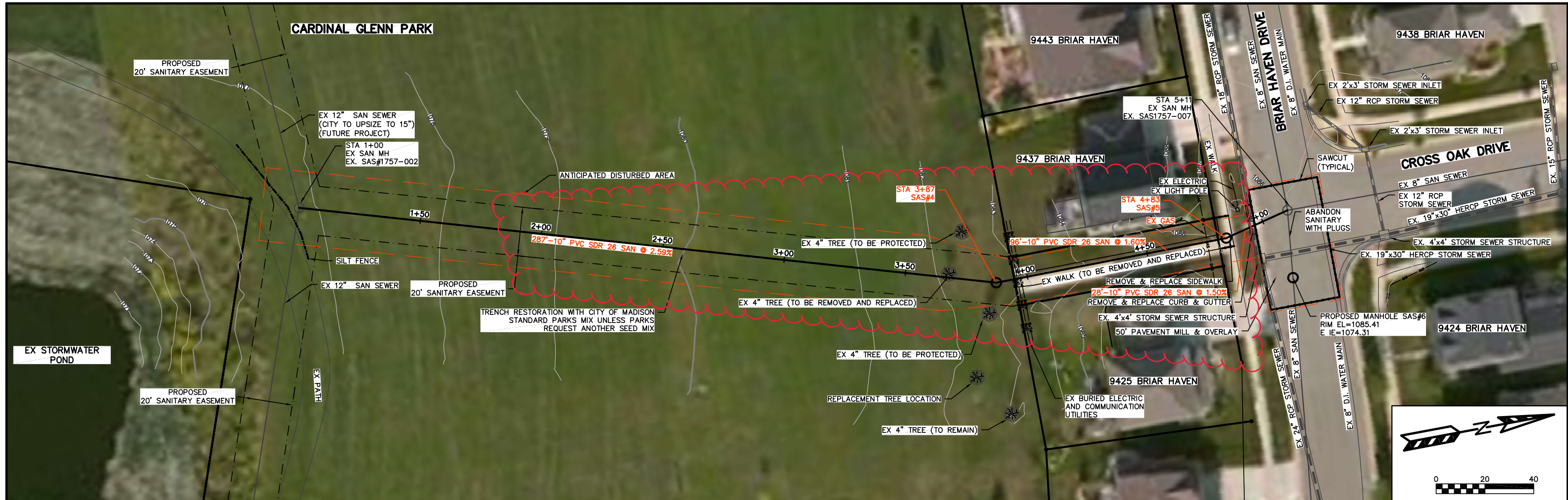
TWO POINTS CROSSING

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12567

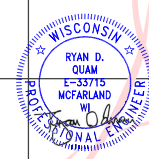
U-3

QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750



REVISED 5/10/2021 BY IO
- SANITARY CHANGES DUE TO UTILITY CONFLICTS

NOTE: 10" PVC SANITARY SEWER PIPES SHALL CONFORM TO ASTM D3034 SDR-26



Digitally signed by Ryan D Quam
DN: c=US, o=QUAM ENGINEERING LLC, ou=A01410C000001, 75664B232900008, 80, cn=Ryan D Quam
Date: 2021.05.10 13:06:30 -05'00'

SANITARY SEWER SCHEDULE

TWO POINTS CROSSING
PROJECT NO. 12567

SHEET NO.
U-SAN

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
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CROSS OAK DRIVE

SAS#1	16+10.20	CL	1111.48	1098.89	12.59	-
SAS#2	19+57.88	CL	1129.30	1113.00	16.30	-
SAS#3	19+57.89	RT-72.47	1123.75	1113.39	10.36	(1), (2)
SAS#6	12+13.71	RT-4.45	1099.84	1087.92	11.92	-

CARDINAL GLENN PARK

SAS#4	3+95.00	CL	1082.80	1072.49	10.31	-
SAS#5	4+80.00	CL	1086.00	1073.87	12.13	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
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EX SAS 1756-003	SAS#1	1094.21	1098.89	108	4.34%	8"	SDR-35	-
SAS#1	SAS#2	1098.99	1113.00	348	4.03%	8"	SDR-26	-
SAS#2	SAS#3	1113.10	1113.39	72	0.40%	8"	SDR-26	-
EX SAS 1757-002	SAS#4	1064.84	1072.49	295	2.59%	10"	SDR-26	-
SAS#4	SAS#5	1072.59	1073.87	85	1.50%	10"	SDR-26	-
SAS#5	EX SAS 1757-007	1073.97	1074.43	31	1.50%	10"	SDR-26	-

REMOVE SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
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1756-005	15+27.00	LT-26.00	1106.98	1096.12	10.86	-
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REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	PAID (Y / N)	PAY LGTH (FT)	PIPE SIZE	NOTES
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1756-003	1756-005	Y	35	8"	-
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NOTES:

- PROVIDE EXTERNAL SAS WRAP IN CONFORMANCE WITH S.D.D. 5.7.2
- INSTALL LOCKING WATERTIGHT FRAME AND LID IN CONFORMANCE WITH S.D.D. 5.7.16A

STORM SEWER SCHEDULE

TWO POINTS CROSSING

SHEET NO.

PROJECT NO. 12567

U-STM

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
CROSS OAK DRIVE							
S-0	16+32.78	RT-55.13	12" RCP APRON END	-	1108.00	-	-
S-1	16+28.79	RT-17.50	H INLET	1112.61	1108.22	4.39	FP; W/ R-3067-7004-V
S-1A	16+28.79	LT-17.50	H INLET	1112.61	1108.40	4.21	FP; W/ R-3067-7004-V
S-1B	16+43.79	LT-17.50	H INLET	1113.51	1108.50	5.01	W/ R-3067-7004-V
S-2	17+26.06	RT-17.50	H INLET	1118.45	1113.57	4.88	W/ R-3067-7004-V
S-2A	17+26.06	LT-17.50	H INLET	1118.45	1113.77	4.68	W/ R-3067-7004-V
S-3	19+46.37	RT-44.12	12" RCP APRON END	-	1122.99	-	W/ GATE
S-4	19+45.20	LT-55.87	12" RCP APRON END	-	1127.69	-	W/ GATE

MINERAL POINT RD

S-5	219+00.00	RT-45.60	48" RCP APRON END	-	1120.09	-	W/ GATE
S-6	218+76.40	RT-29.13	5X5 SAS	1125.66	1120.24	5.42	FP; W/ R-1550
S-7	218+75.95	LT-38.11	48" RCP APRON END	-	1120.51	-	W/ GATE

REMOVE STORM STRUCTURE

STRUCTURE NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
AS 1756-009	15+24.70	LT-33.27	3X3 SAS	1106.75	1101.25	5.50	-

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
P-1	S-0	S-1	1108.00	1108.22	38	37	0.59%	12"	TYPE I	-
P-1A	S-1	S-1A	1108.22	1108.40	35	33	0.55%	12"	TYPE I	-
P-1B	S-1A	S-1B	1108.40	1108.50	15	12	0.83%	12"	TYPE II	-
P-2	S-1	S-2	1108.22	1113.57	97	94	5.69%	12"	TYPE II	-
P-2A	S-2	S-2A	1113.57	1113.77	35	33	0.61%	12"	TYPE I	-
P-3	S-3	S-4	1122.99	1127.69	100	100	4.70%	12"	TYPE I	-
P-4	S-5	S-6	1120.09	1120.24	29	26	0.58%	48"	TYPE I	CLASS IV RCP
P-5	S-6	S-7	1120.24	1120.51	67	65	0.42%	48"	TYPE I	CLASS IV RCP

REMOVE STORM PIPES

REMOVE FROM	REMOVE TO	PAID (Y / N)	PAY LGTH (FT)	PIPE SIZE	TYPE	NOTES
IN 1756-008	AS 1756-009	Y	102.00	18"	RCP	-

SPECIFIC NOTES:

STANDARD NOTES:

-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.

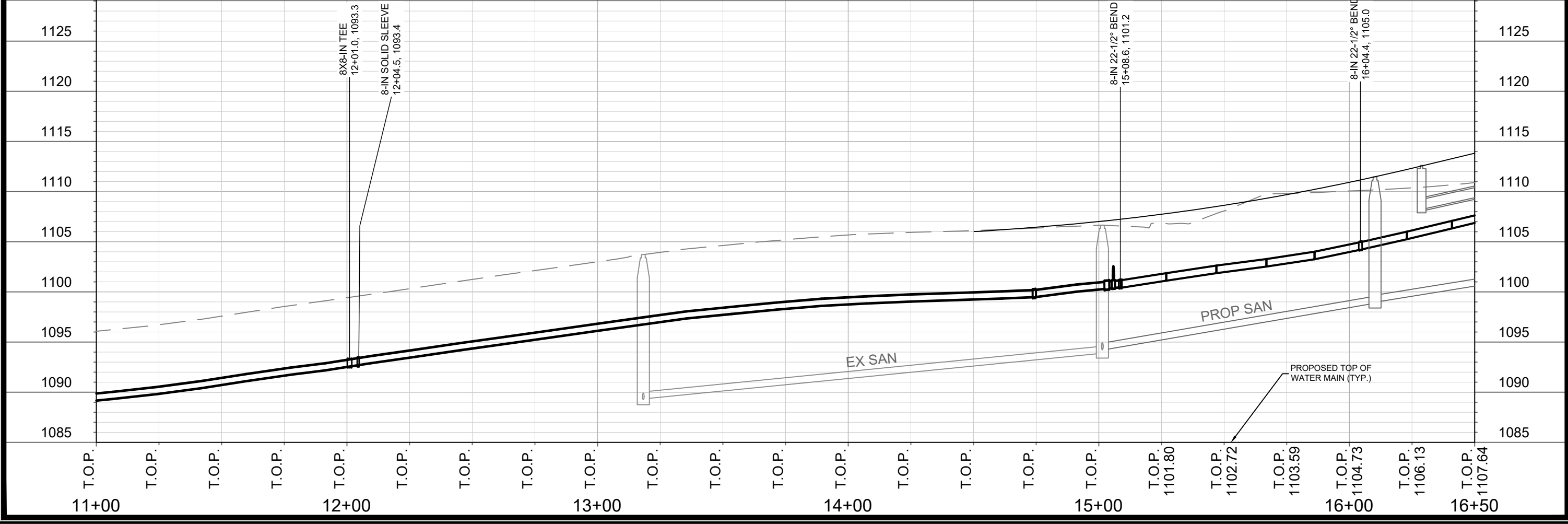
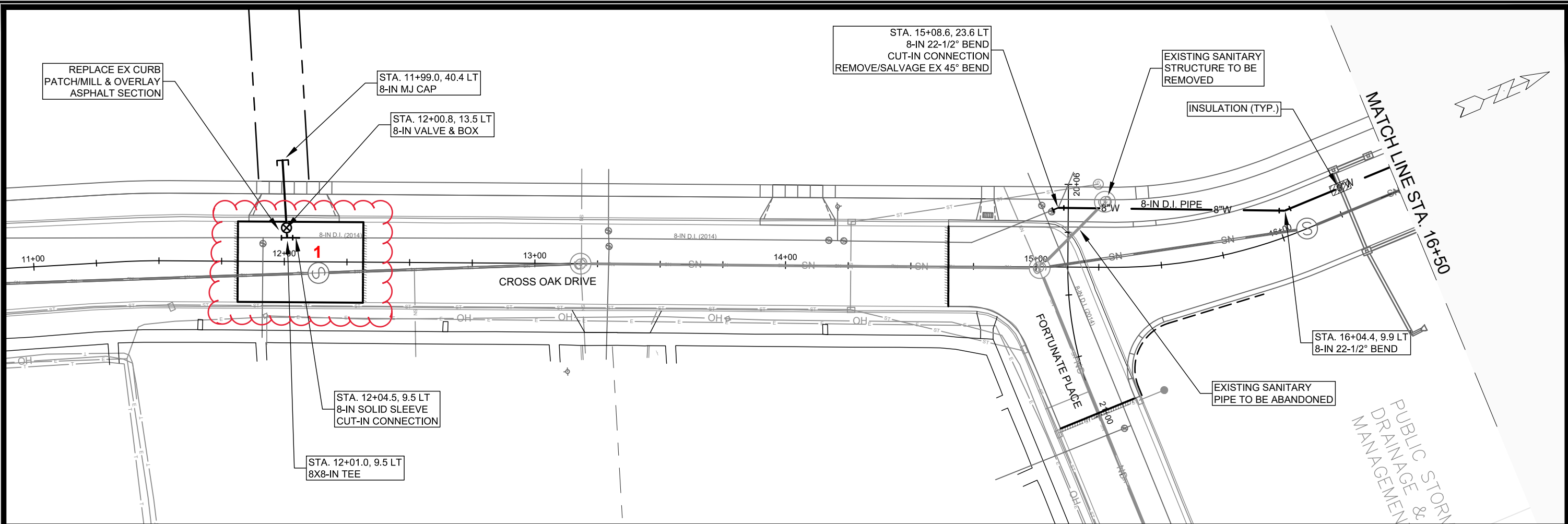
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

-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 IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR STORM SEWER PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

-FOR SWM PRECAST APPROVALS CONTACT PHIL GAEBLER AT (608) 266-4059 OR EMAIL SWM SHOP DRAWINGS TO PGAEBLER@CITYOFMADISON.COM



MARK	REVISION	DATE	BY
1	1	5/12/2021	PEH

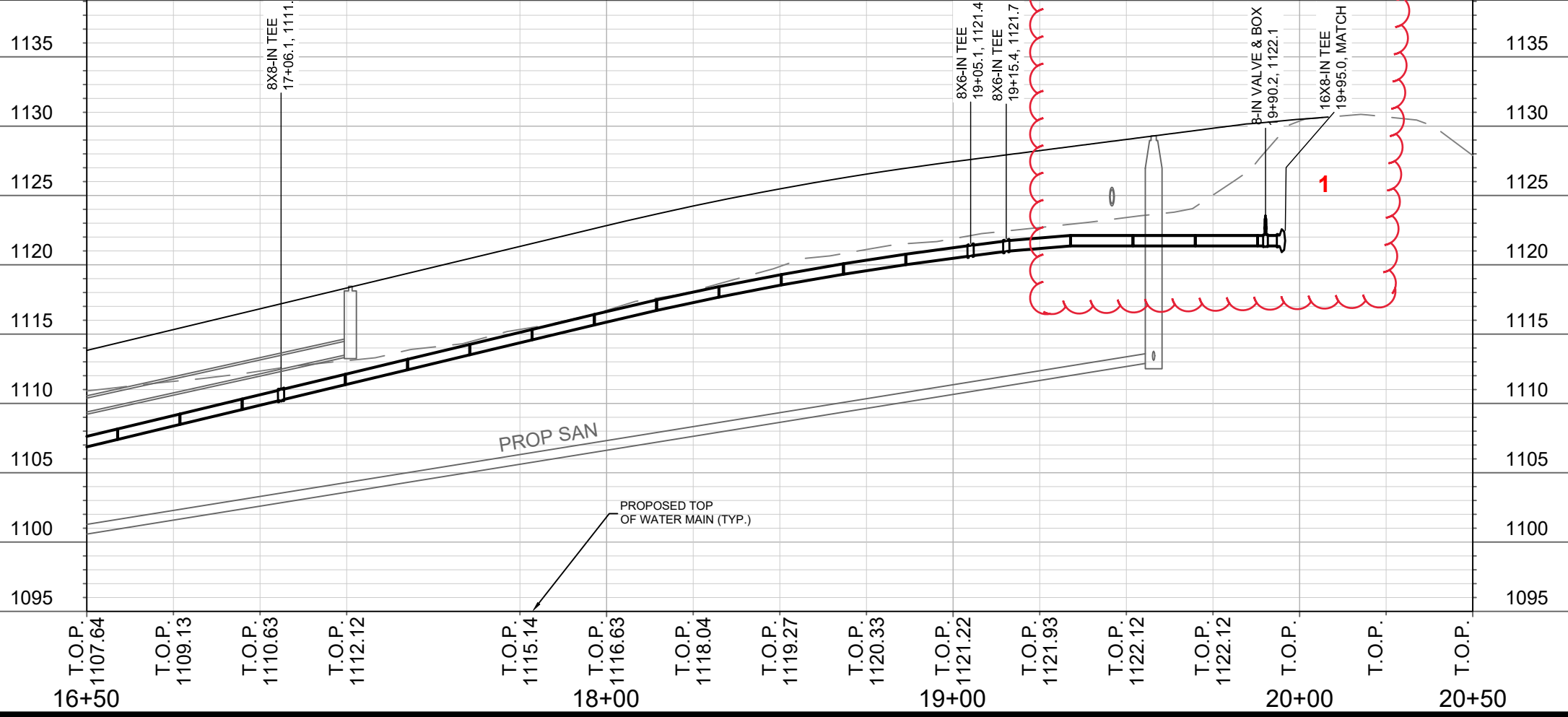
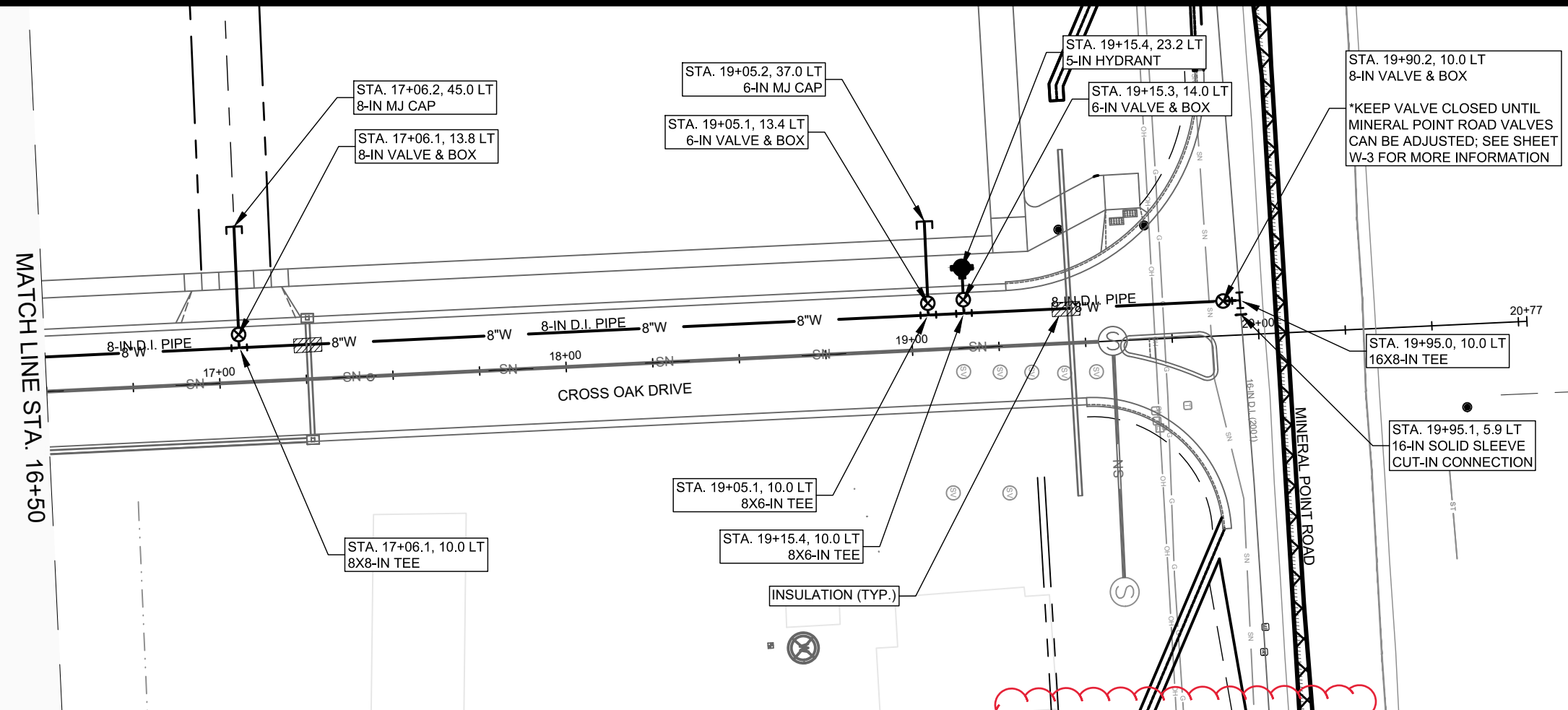
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12567
MADISON, WI
CONTRACT NO: 8517

CROSS OAK DRIVE - WATER PLAN AND PROFILE
TWO POINTS CROSSING
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12567
W-1



MARK	REVISION	DATE	BY
1	1	5/12/2021	PEH

Designed By: PEH Date: 5/12/2021 9:00 AM Scale: 1" = 40'

12567
MADISON, WI
CONTRACT NO: 8517

CROSS OAK DRIVE - WATER PLAN AND PROFILE
TWO POINTS CROSSING
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12567
W-2

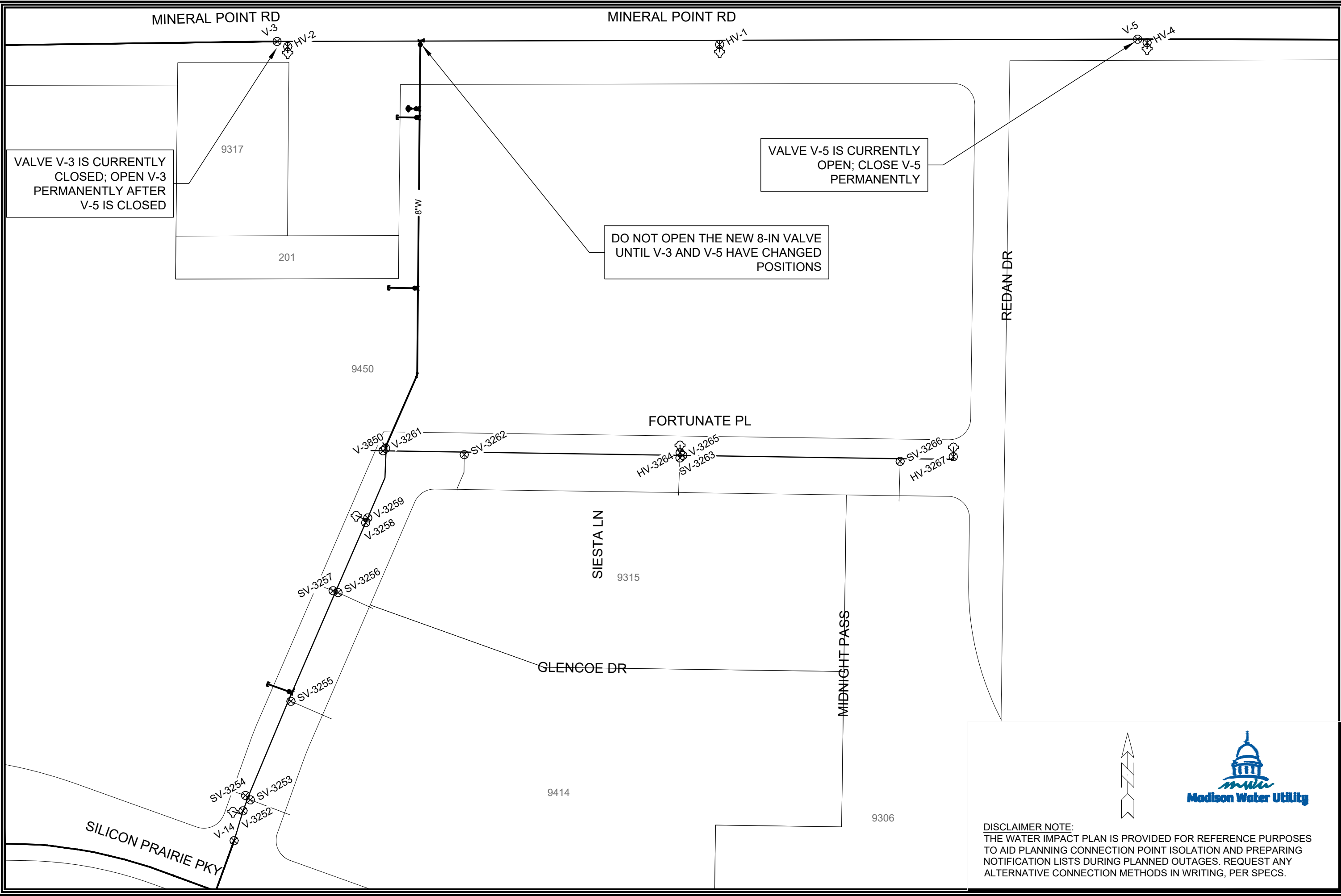
MINERAL POINT RD

MINERAL POINT RD

VALVE V-3 IS CURRENTLY CLOSED; OPEN V-3 PERMANENTLY AFTER V-5 IS CLOSED

VALVE V-5 IS CURRENTLY OPEN; CLOSE V-5 PERMANENTLY

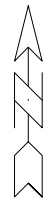
DO NOT OPEN THE NEW 8-IN VALVE UNTIL V-3 AND V-5 HAVE CHANGED POSITIONS



SCALE: #####
DESIGNED BY: PEH
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 1/8/2021

TWO POINTS CROSSING
WATER IMPACT PLAN
CONTRACT NO: 8517

CITY OF MADISON, WISCONSIN



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.



12567
W-3



CONSTRUCTION NOTES:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR 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. 4. THE EXISTING UTILITIES SHOWN ON THIS REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN REPARATION. CONTRACTOR IS RESPONSIBLE OR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK. | <p>WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.</p> <p>WN-2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.</p> <p>WN-3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.</p> <p>WN-4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.</p> <p>WN-5 RELOCATE THE EXISTING FIRE HYDRANT.</p> <p>WN-6 ABANDON WATER VALVE ACCESS STRUCTURE.</p> <p>WN-7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.</p> <p>WN-8 ABANDON THE VALVE BOX.</p> <p>WN-9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.</p> <p>WN-10 REMOVE AND SALVAGE EXISTING HYDRANT</p> <p>WN-11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE</p> <p>WN-20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.</p> |
|---|---|

ESTIMATE OF NEW MATERIALS*

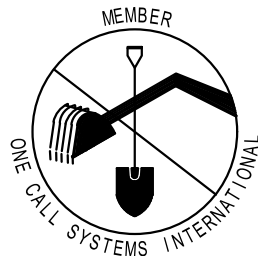
DESCRIPTION	QUANTITY	UNIT
6-INCH WATER MAIN	40	LNFT
8-INCH WATER MAIN	560	LNFT
16-INCH WATER MAIN	~5	LNFT
6-INCH WATER VALVE	2	EACH
8-INCH WATER VALVE	3	EACH
8-IN 22.5° BEND	2	EACH
8-IN SOLID SLEEVE	1	EACH
16-IN SOLID SLEEVE	1	EACH
8X6-IN TEE	2	EACH
8X8-IN TEE	2	EACH
16X8-IN TEE	1	EACH
6-IN MJ CAP	1	EACH
8-IN MJ CAP	2	EACH
5-IN HYDRANT	1	EACH

* ESTIMATES OF MATERIALS ARE 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.

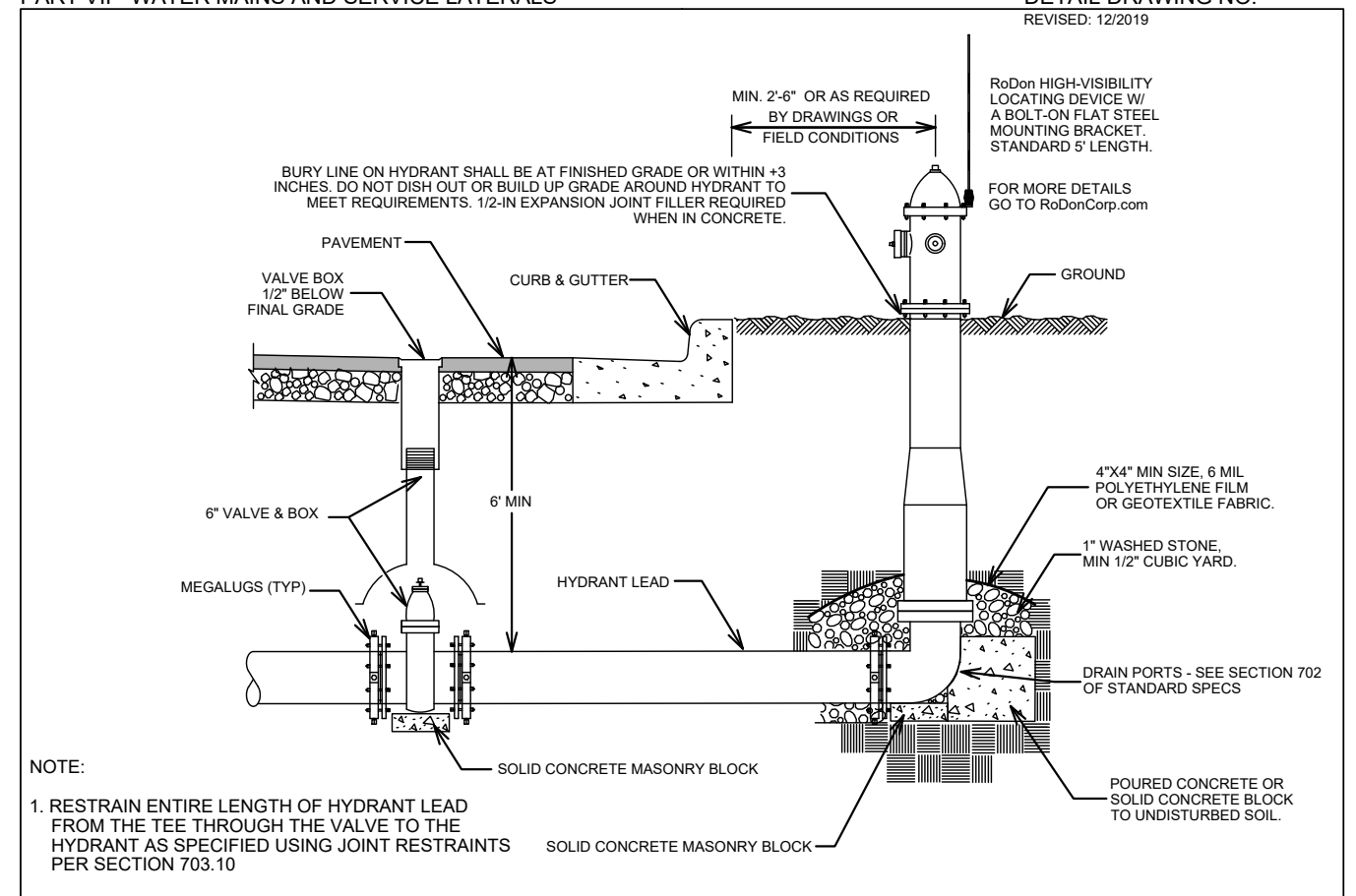


DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2019



NOTE:

1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

SCALE: N/A
DESIGNED BY: PEH
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 1/8/21

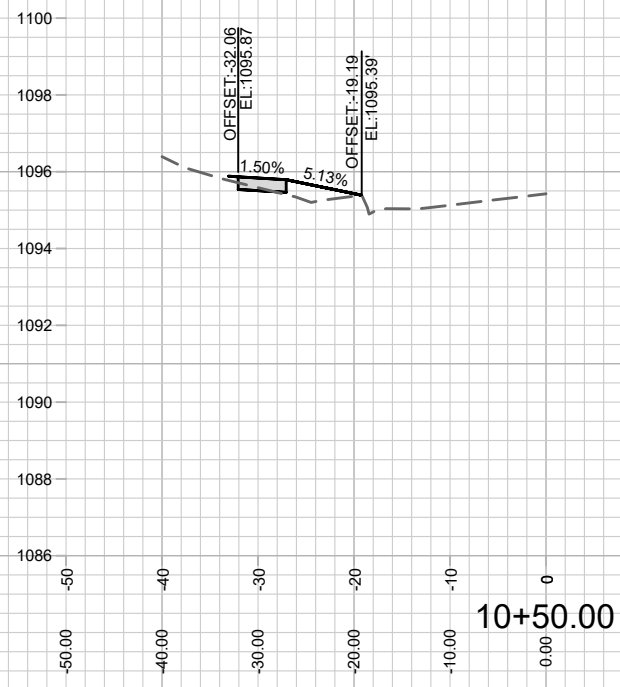
CONTRACT NO: 8517

TWO POINTS CROSSING
WATER ESTIMATE OF MATERIALS
CITY OF MADISON, WISCONSIN

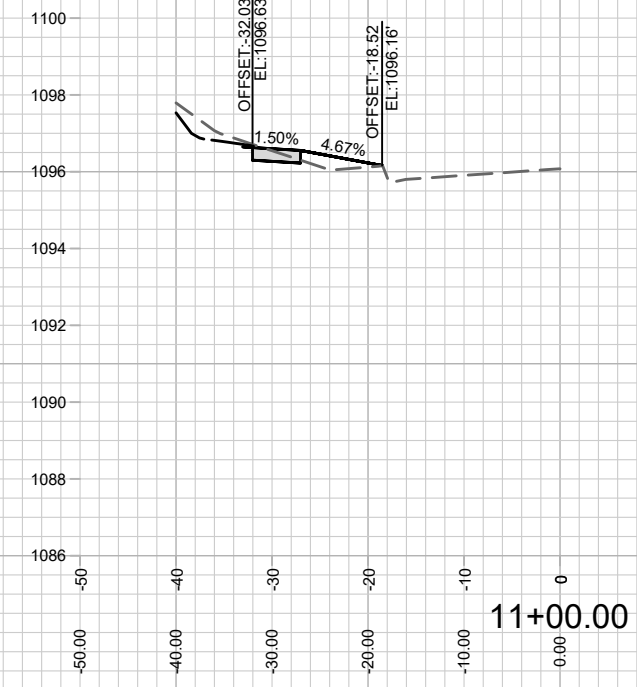


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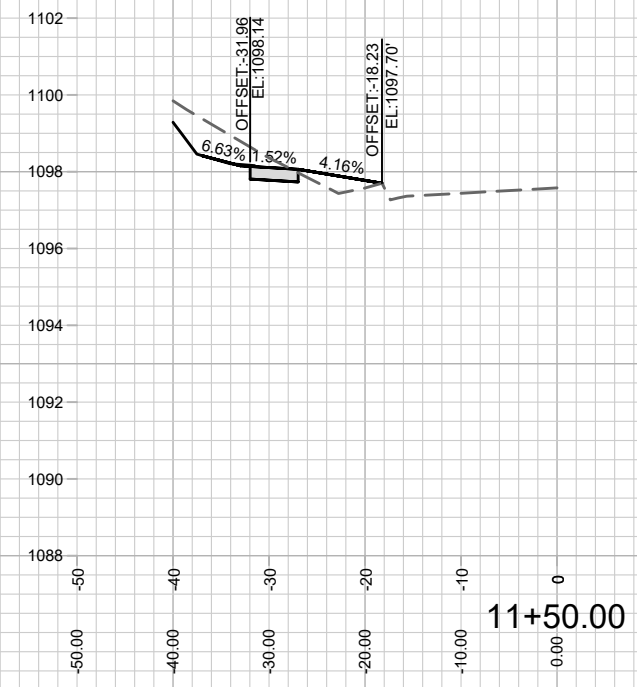
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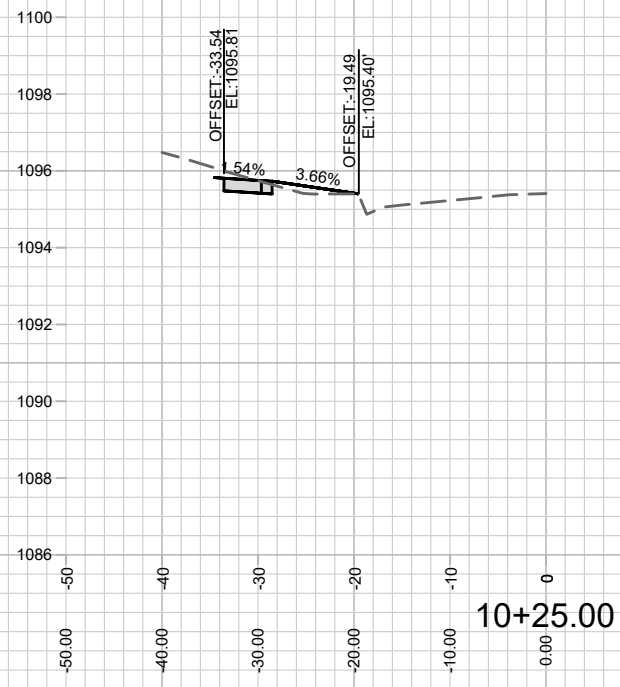
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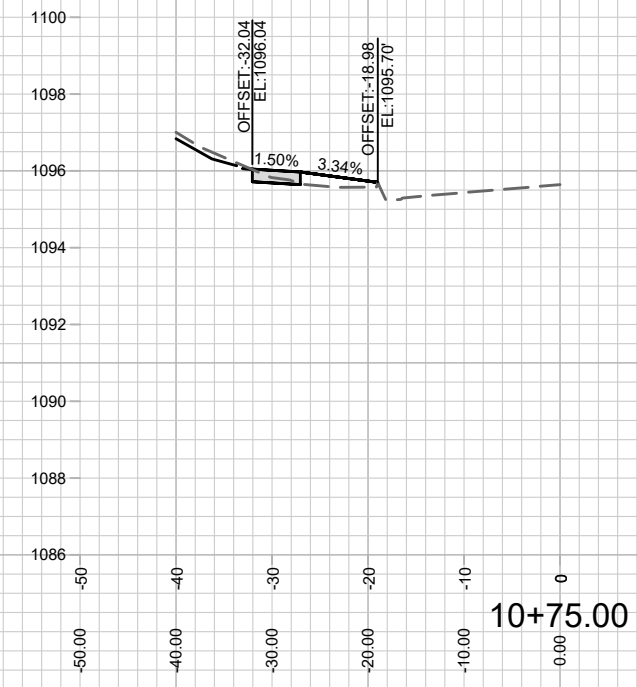
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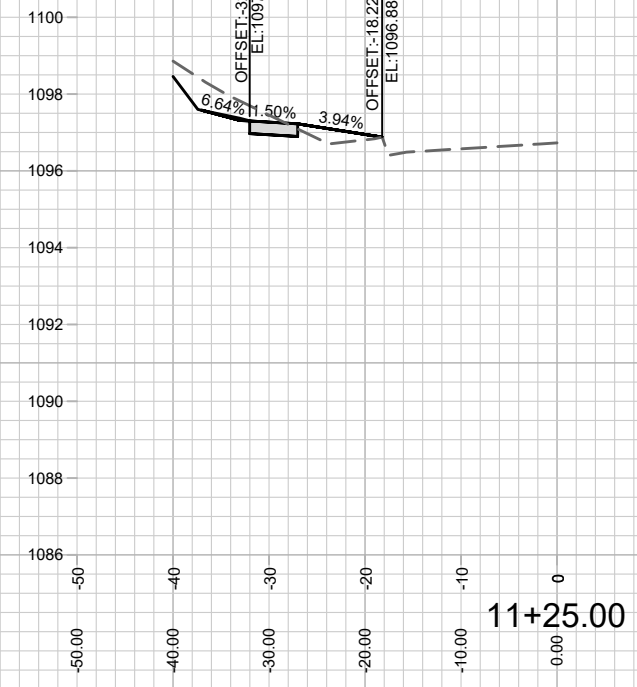
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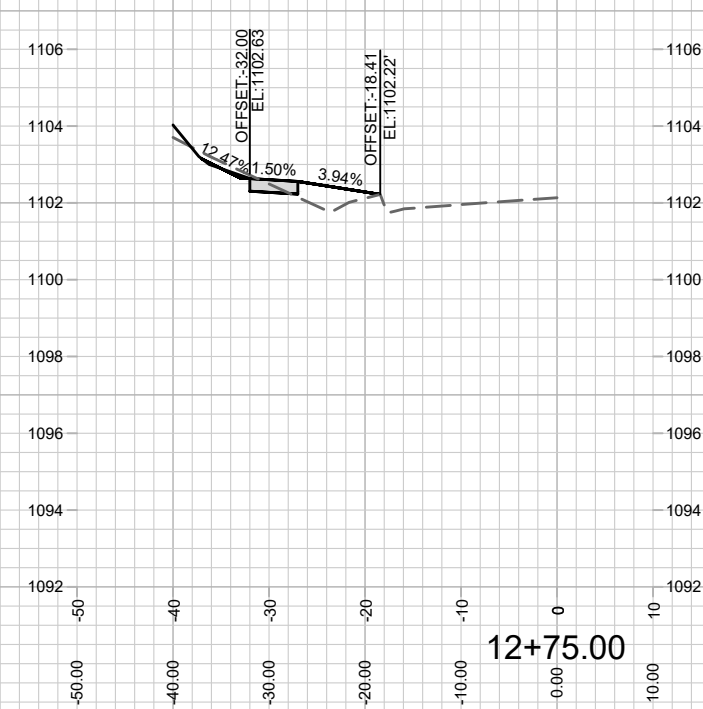
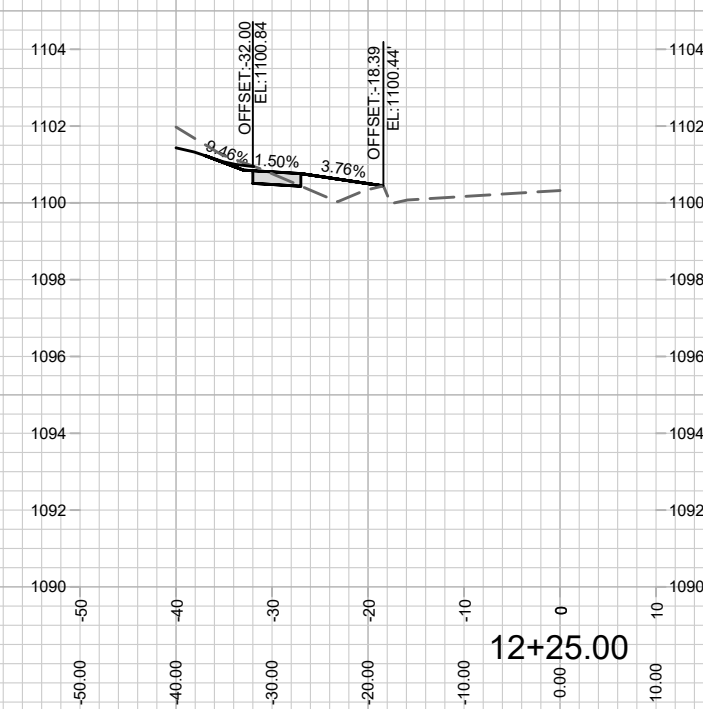
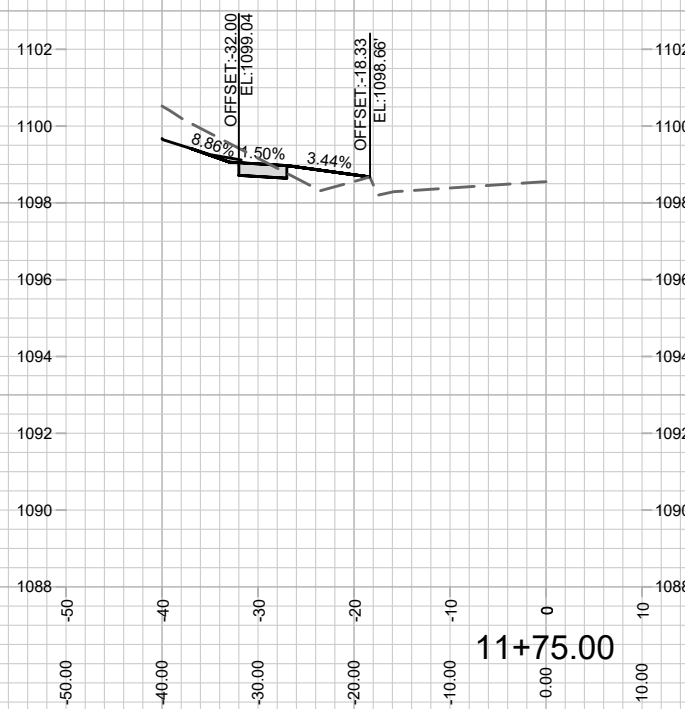
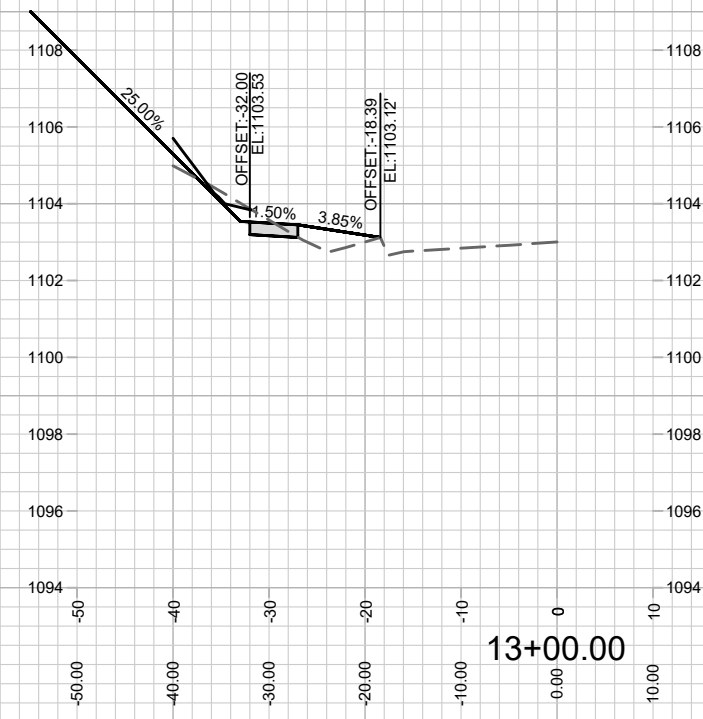
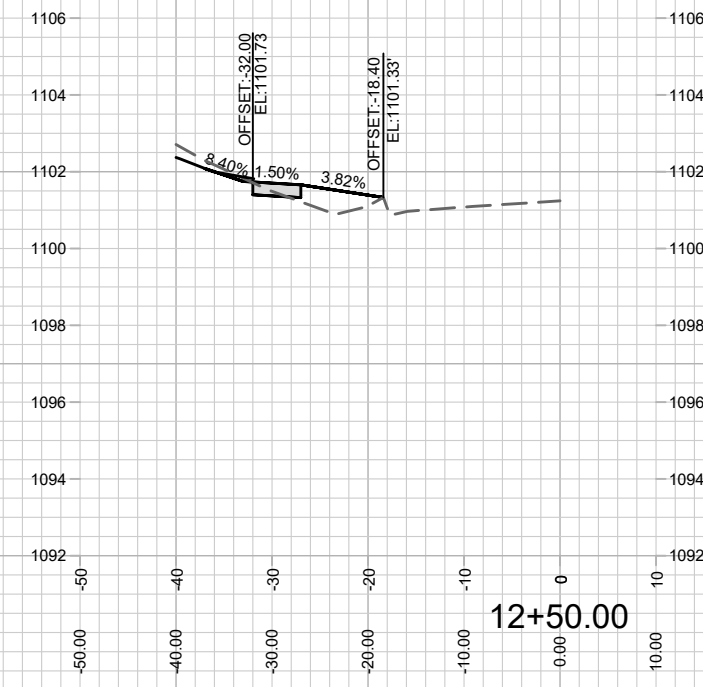
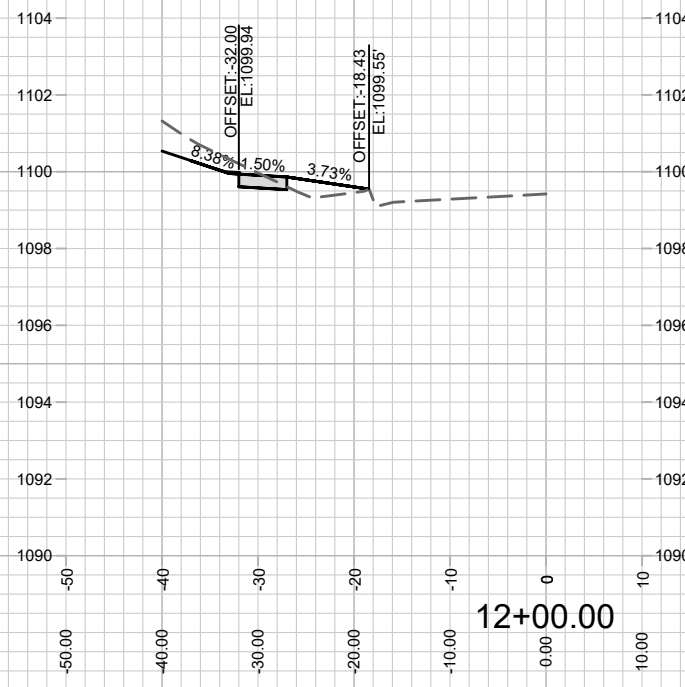
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MADISON, WI
8517
CONTRACT NO:

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING
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12567
X-1

Designed By: ID
12567
Date: 5/12/2021 10:51 AM
Scale: 1" = 20'
X-1



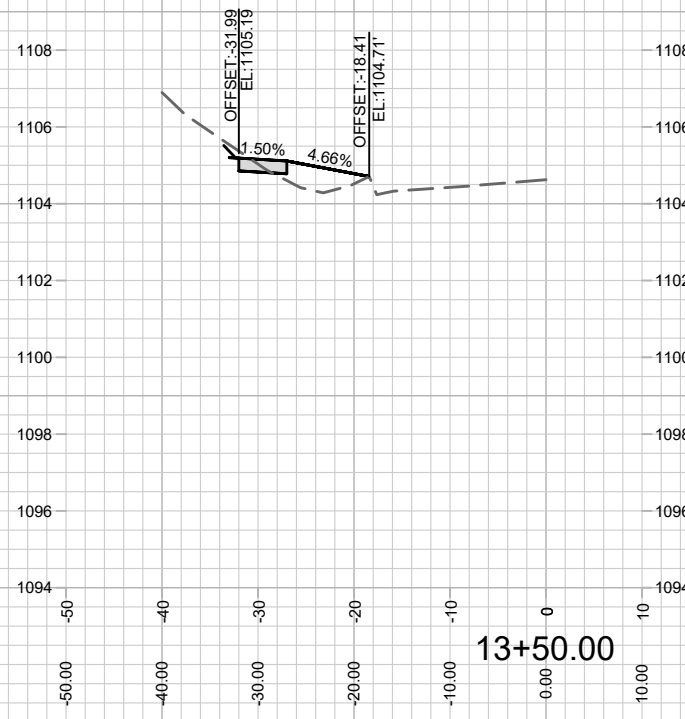
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X-2

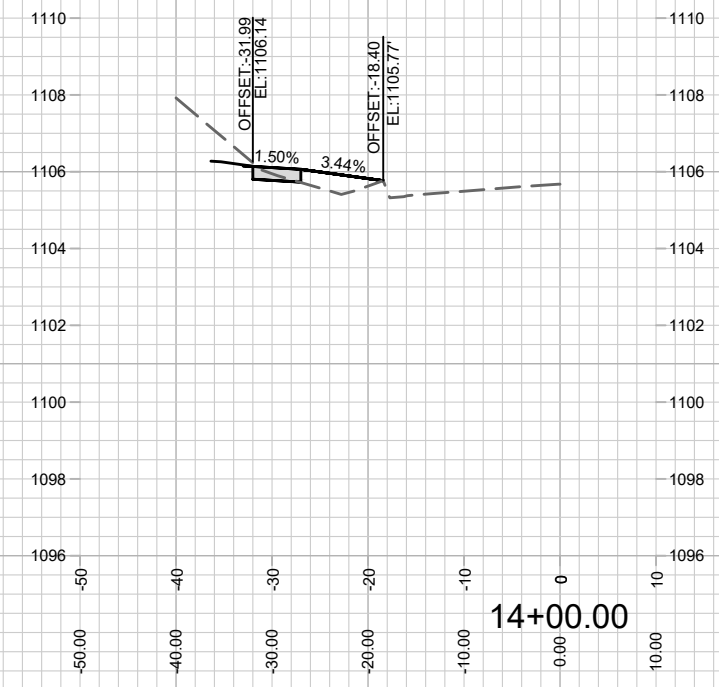
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MADISON, WI
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CONTRACT NO:

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING
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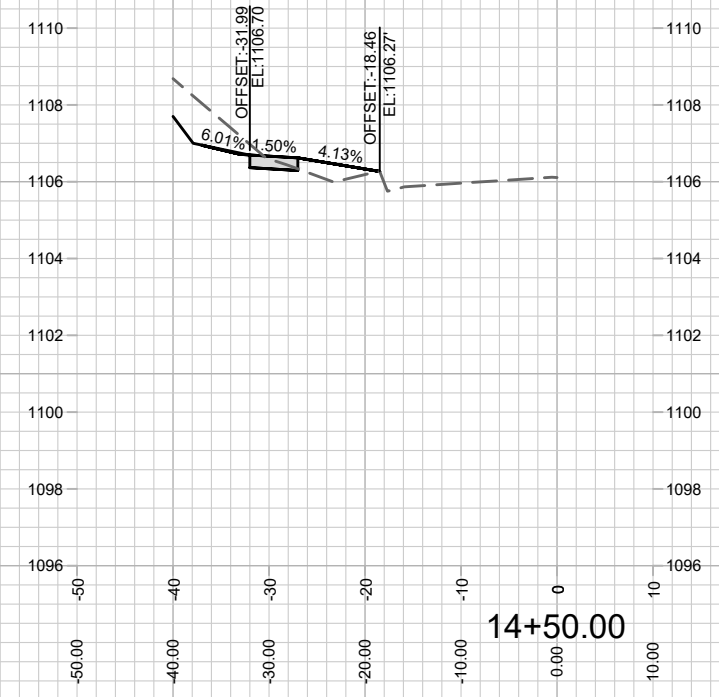
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X-2



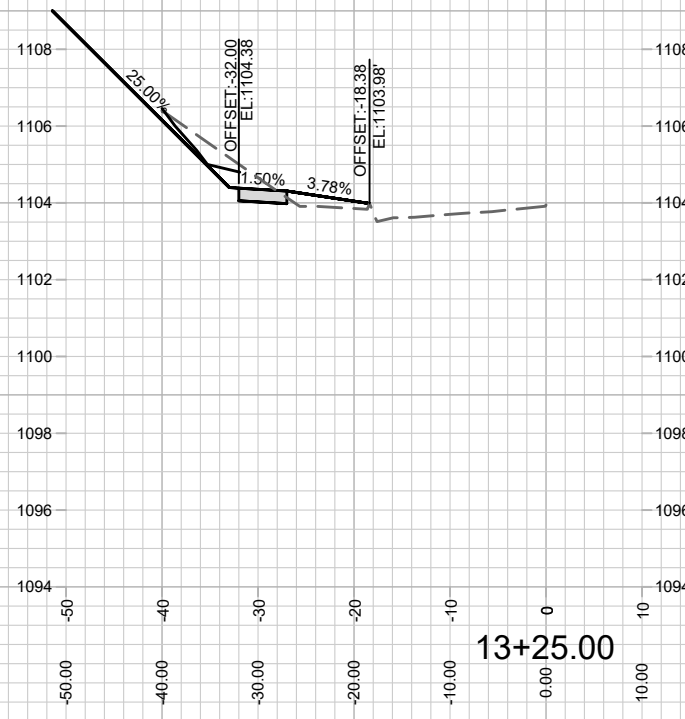
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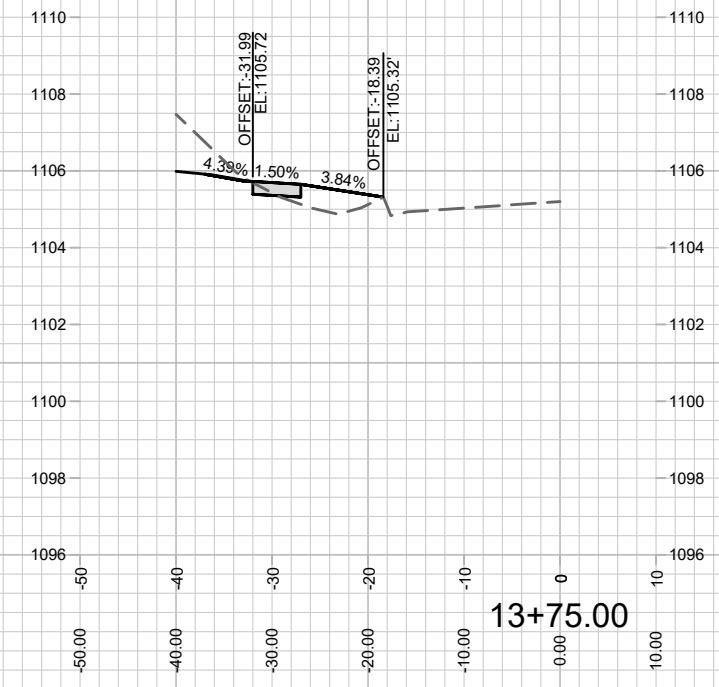
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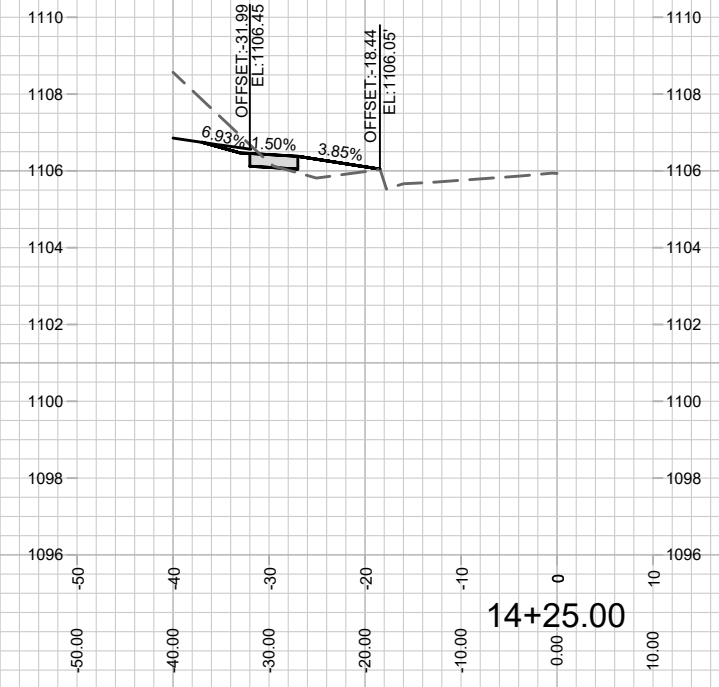
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13+75.00



14+25.00

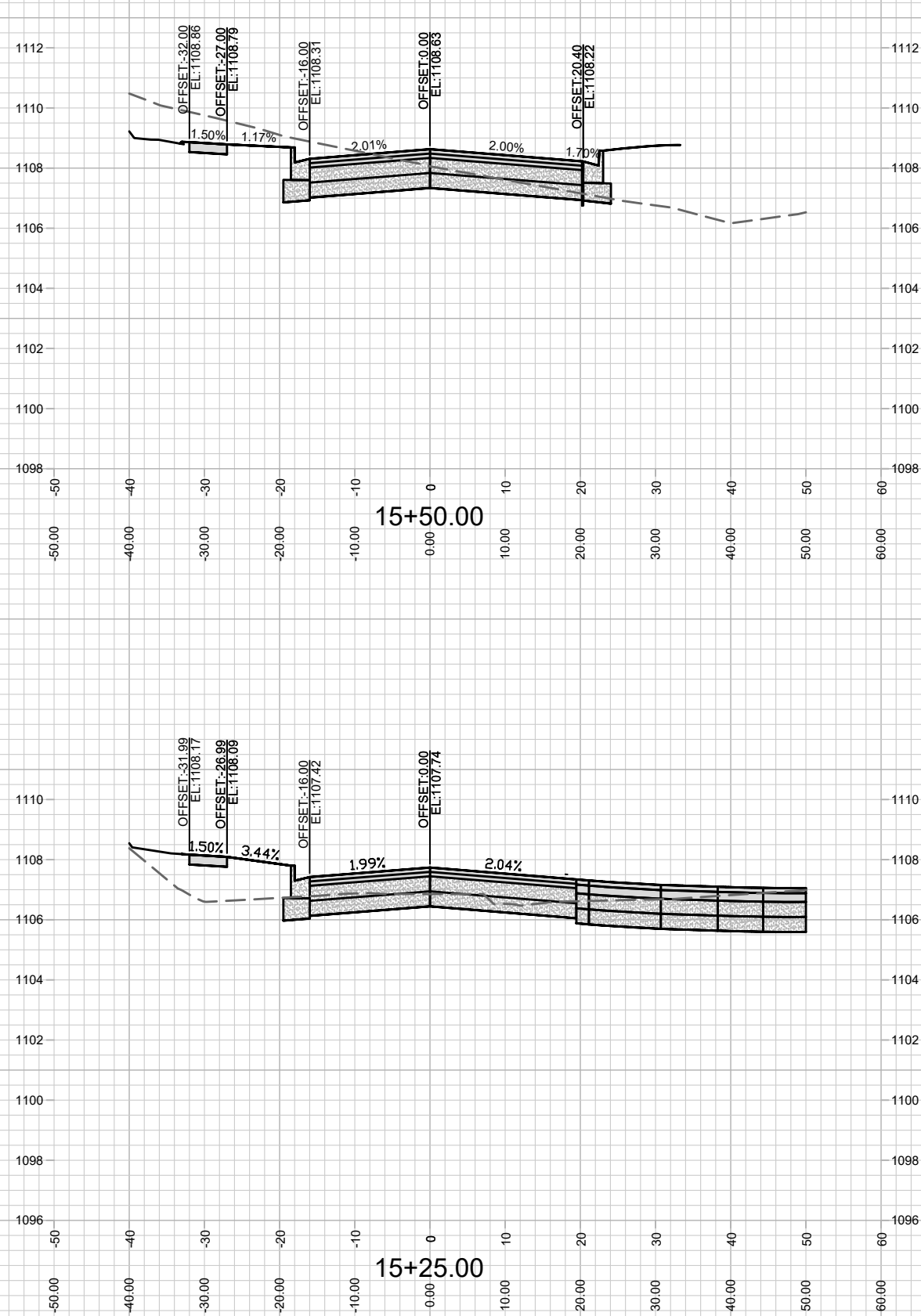
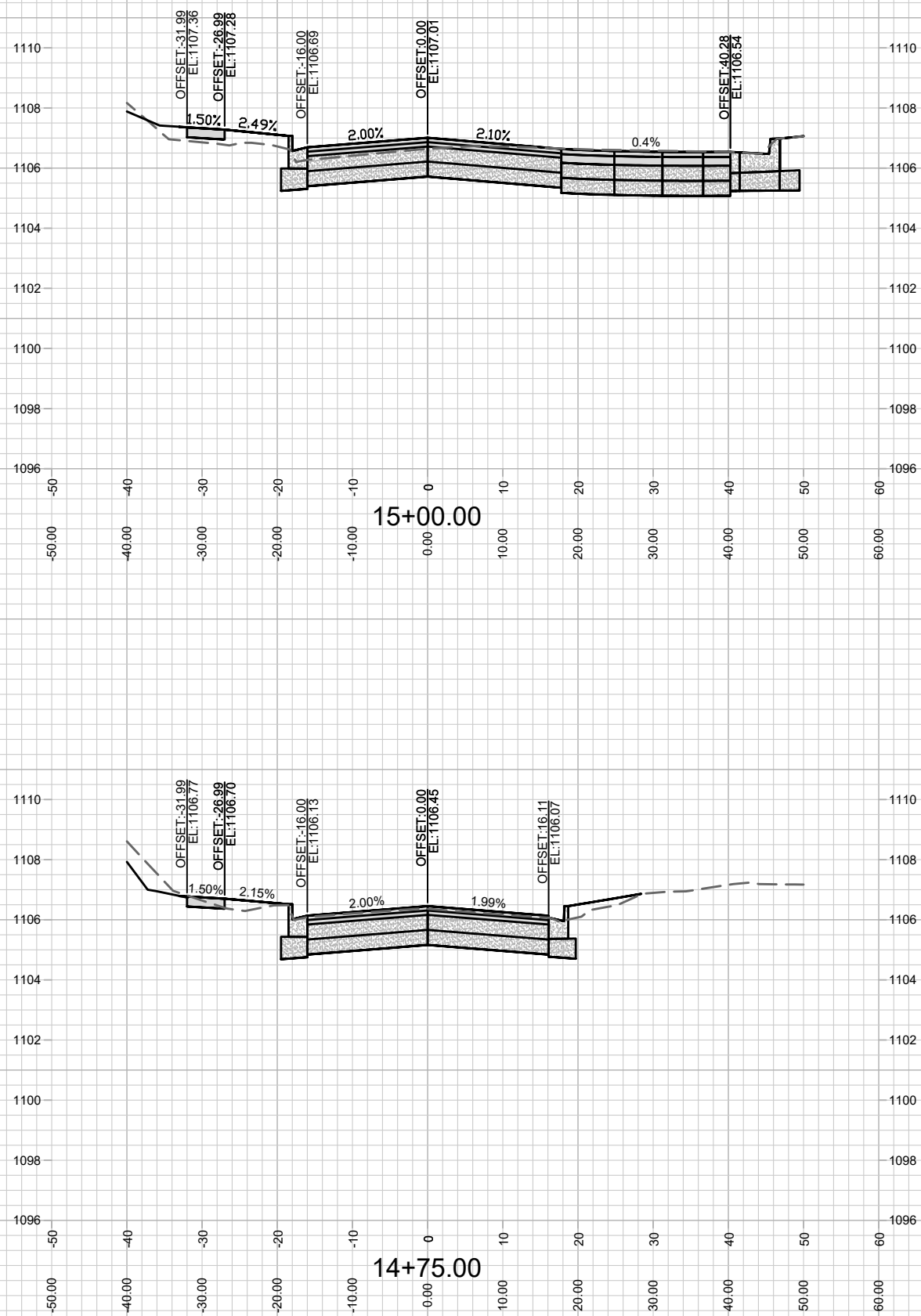
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MADISON, WI
8517
CONTRACT NO:

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING
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12567
X-3



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X-4

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING

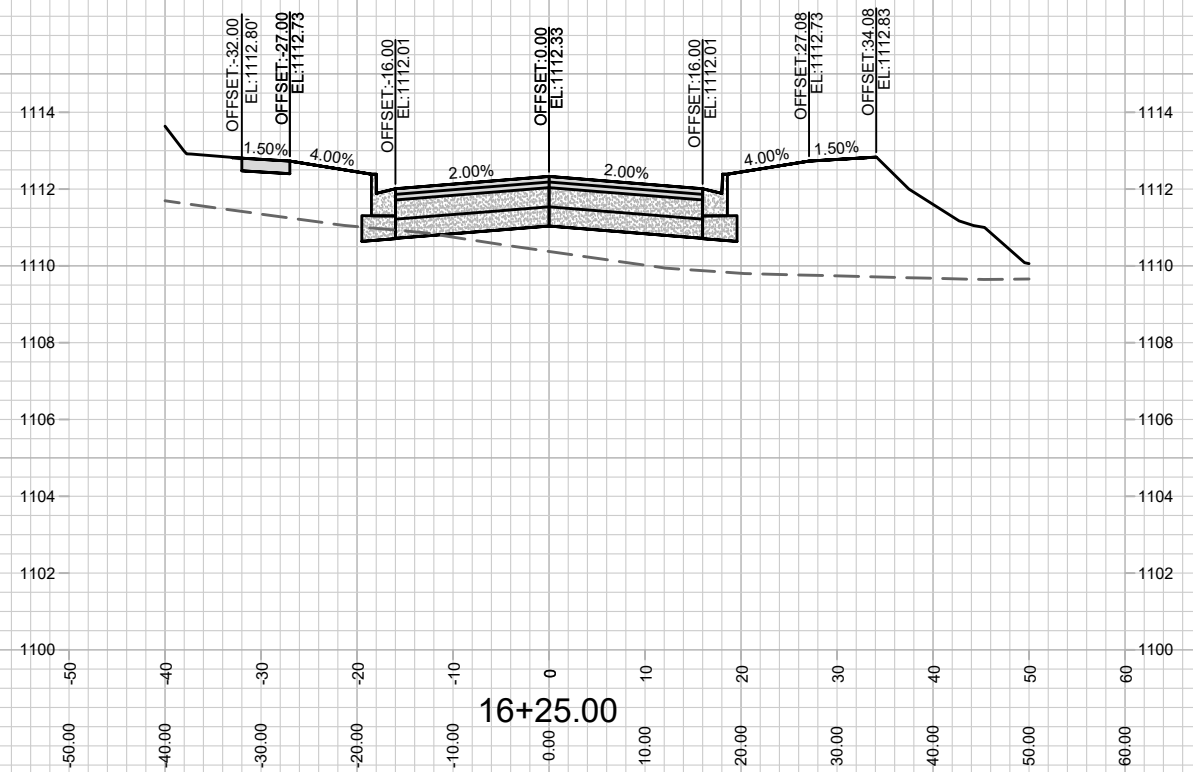
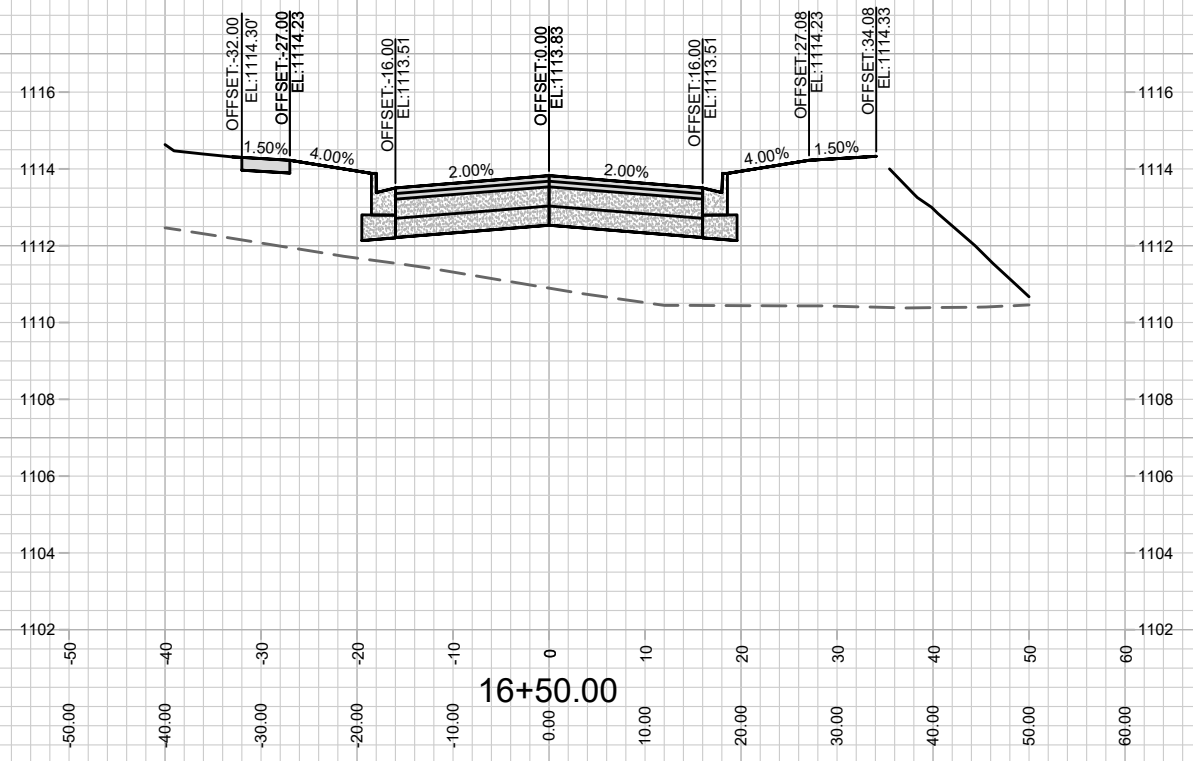
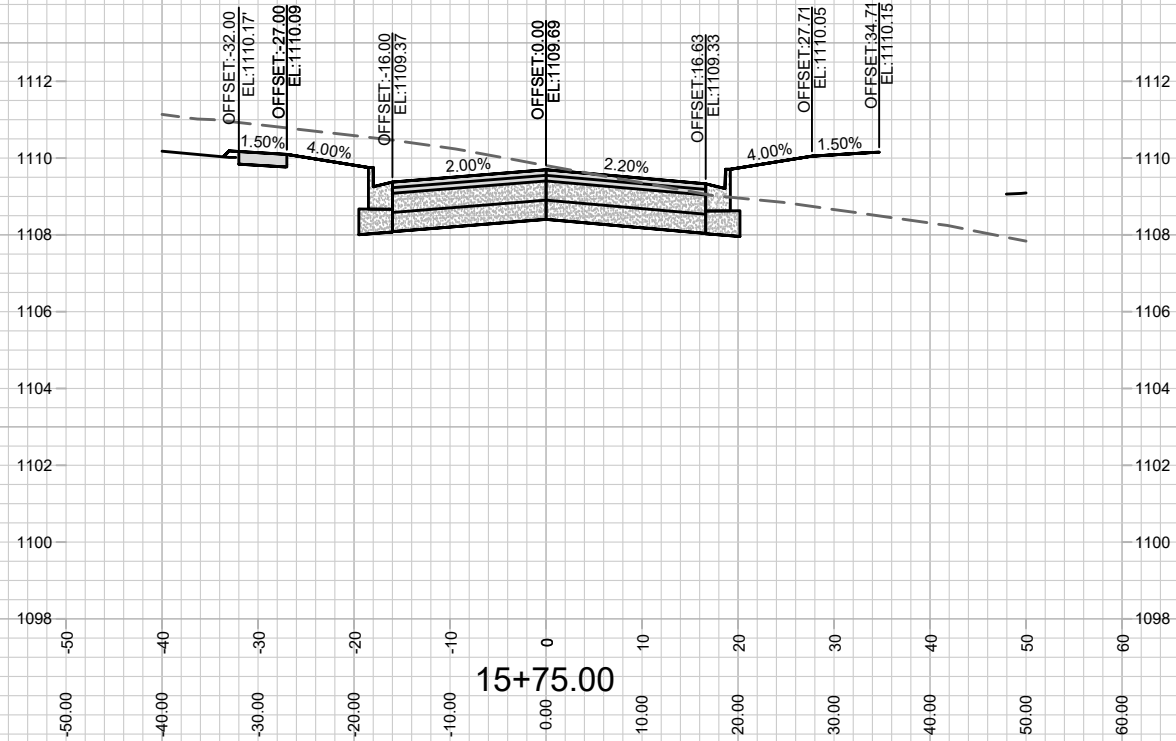
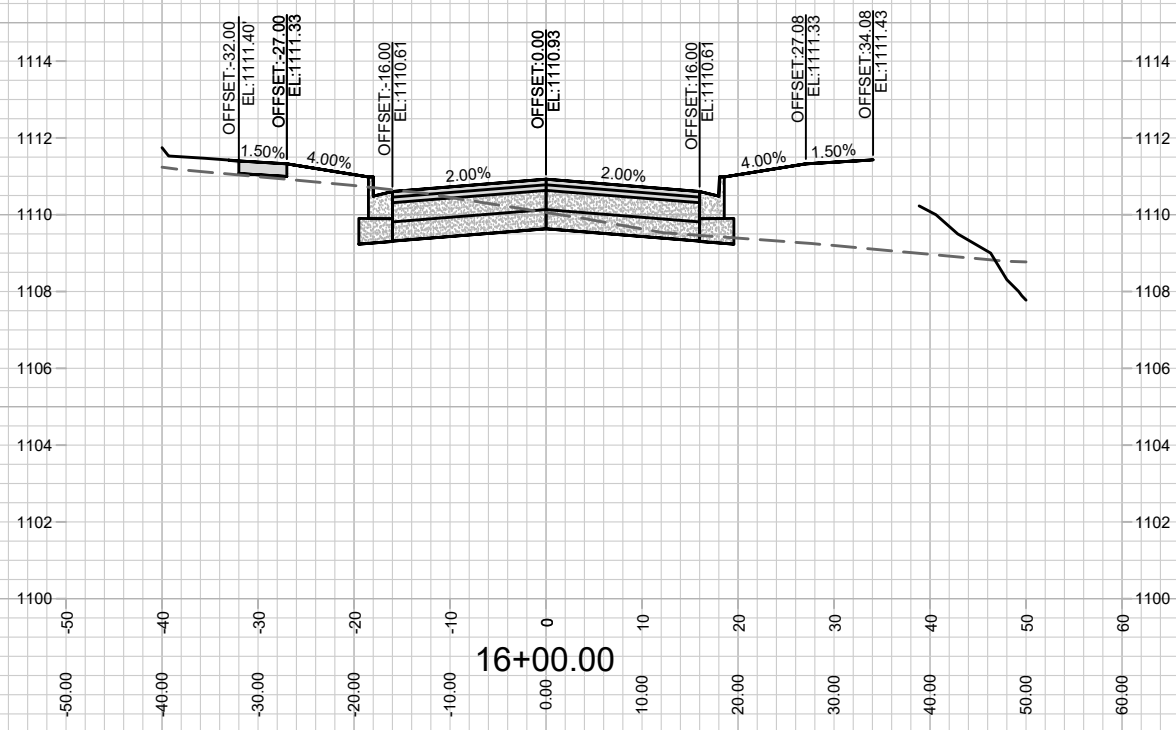
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8517

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MARK	REVISION	DATE	BY

Designed By: ID 12567
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X-4

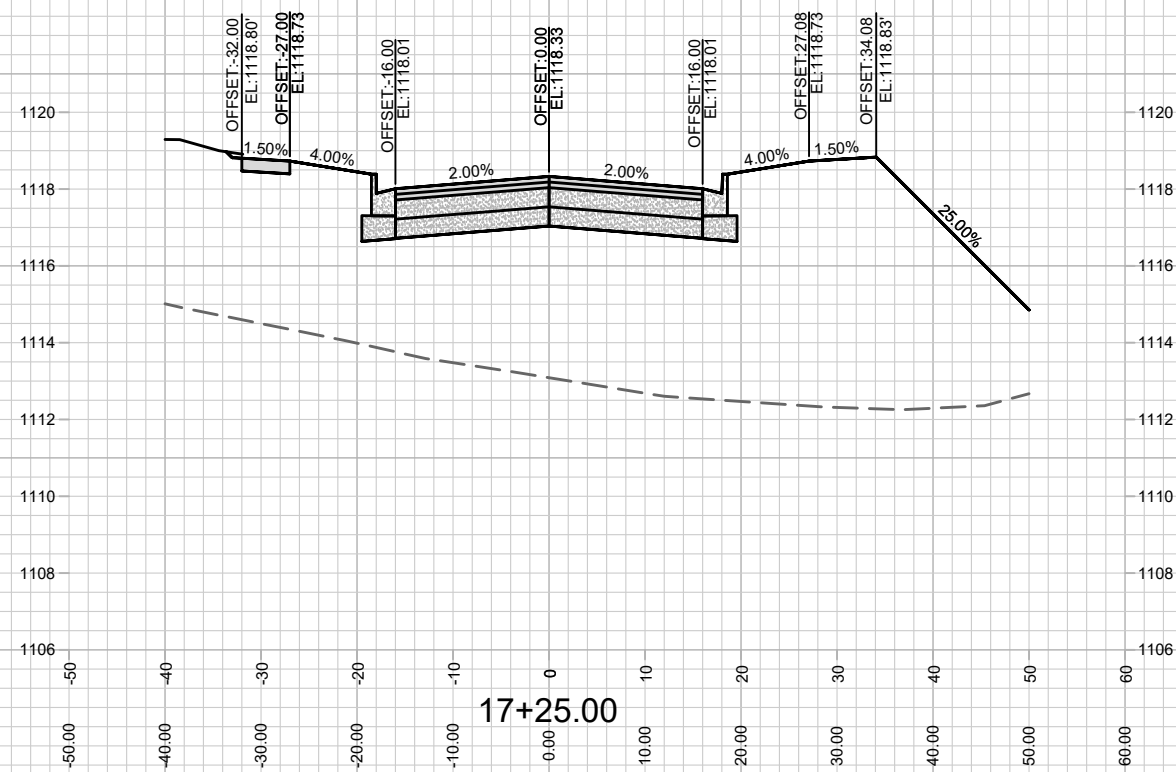
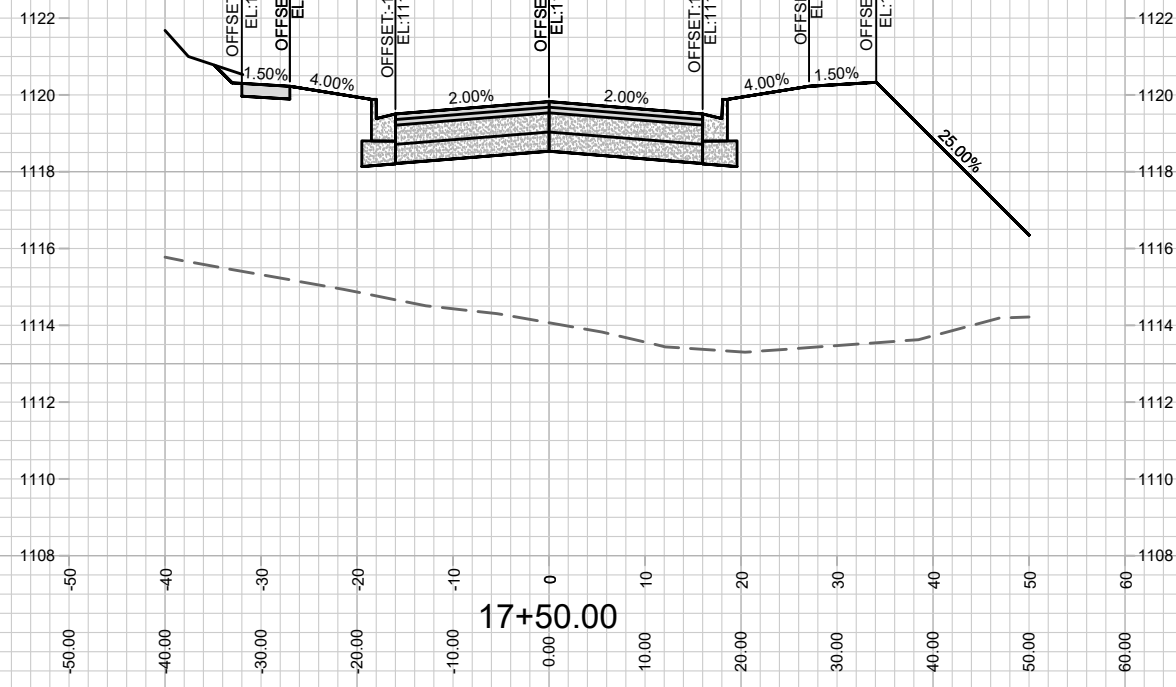
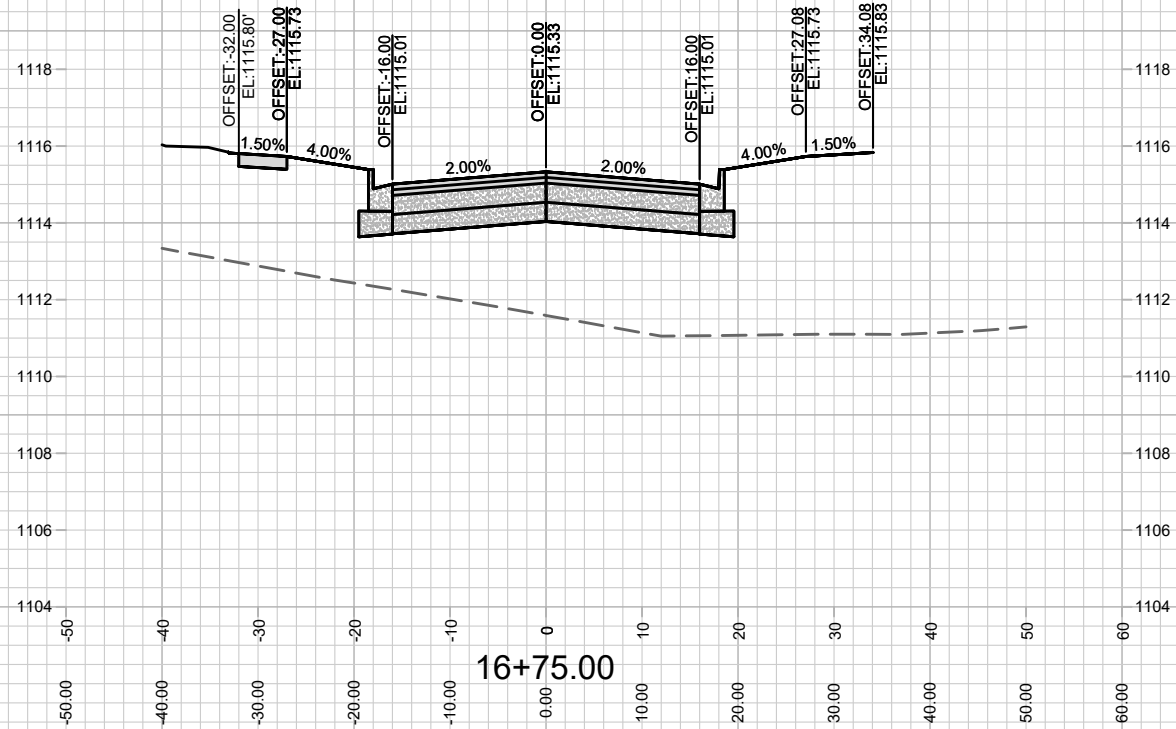
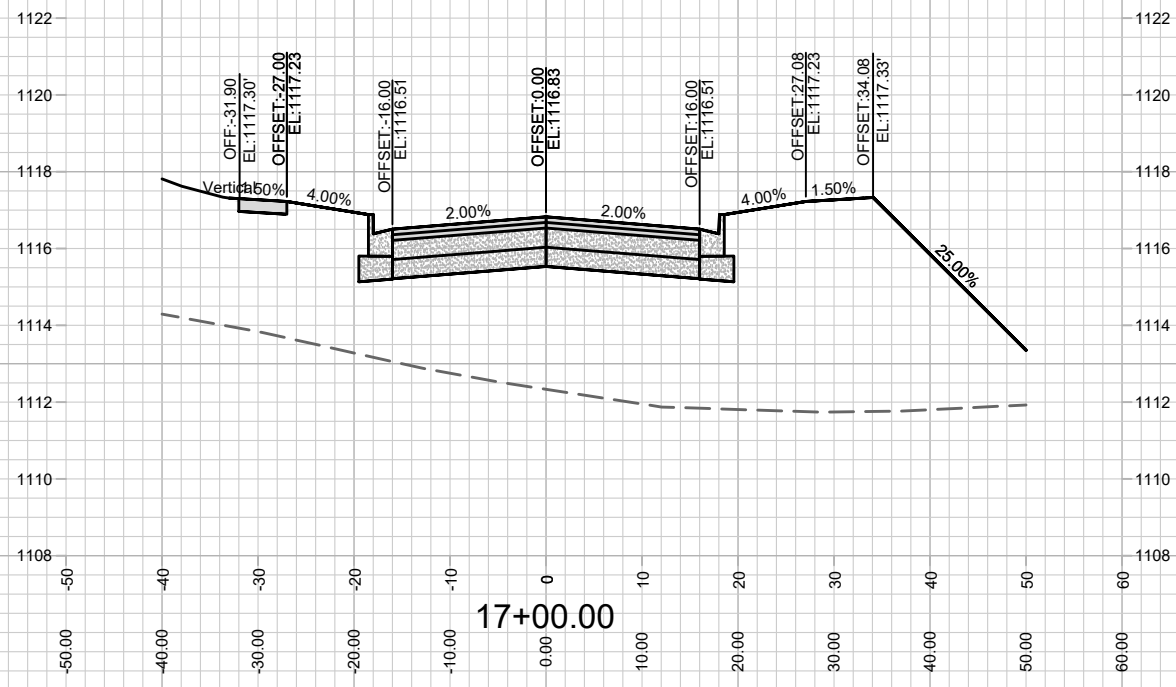


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12567
X-5



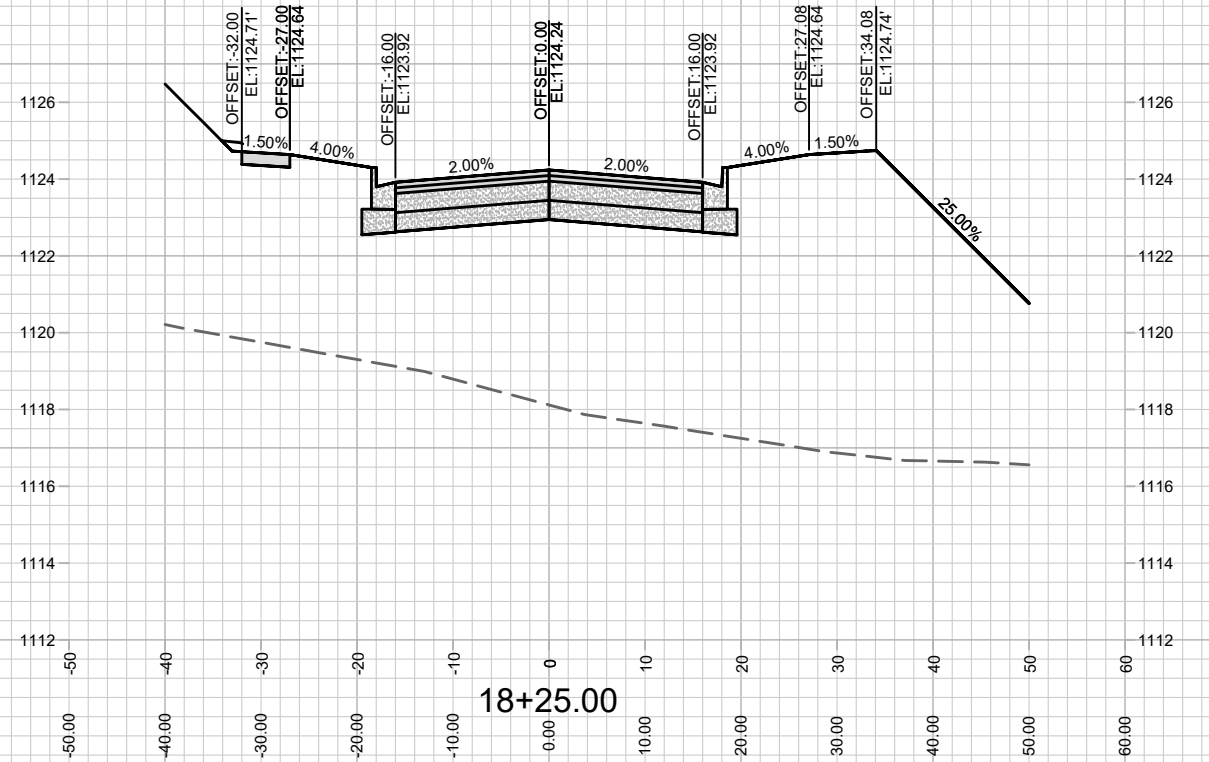
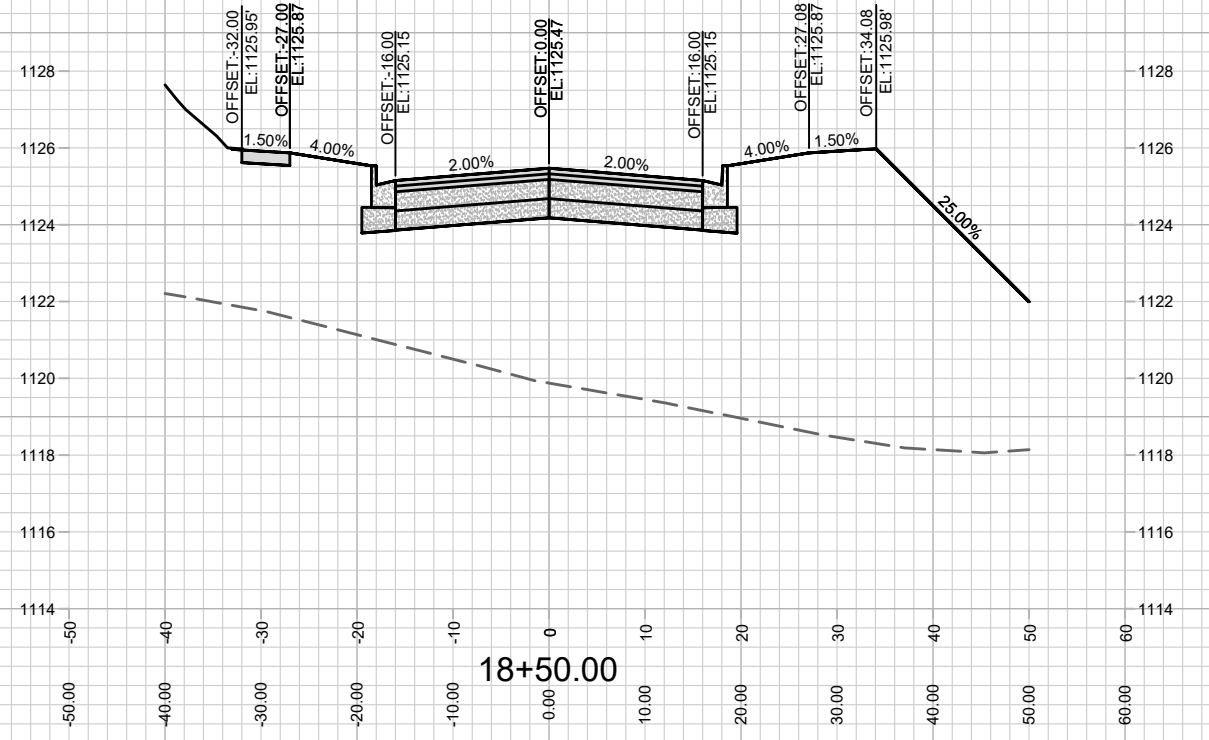
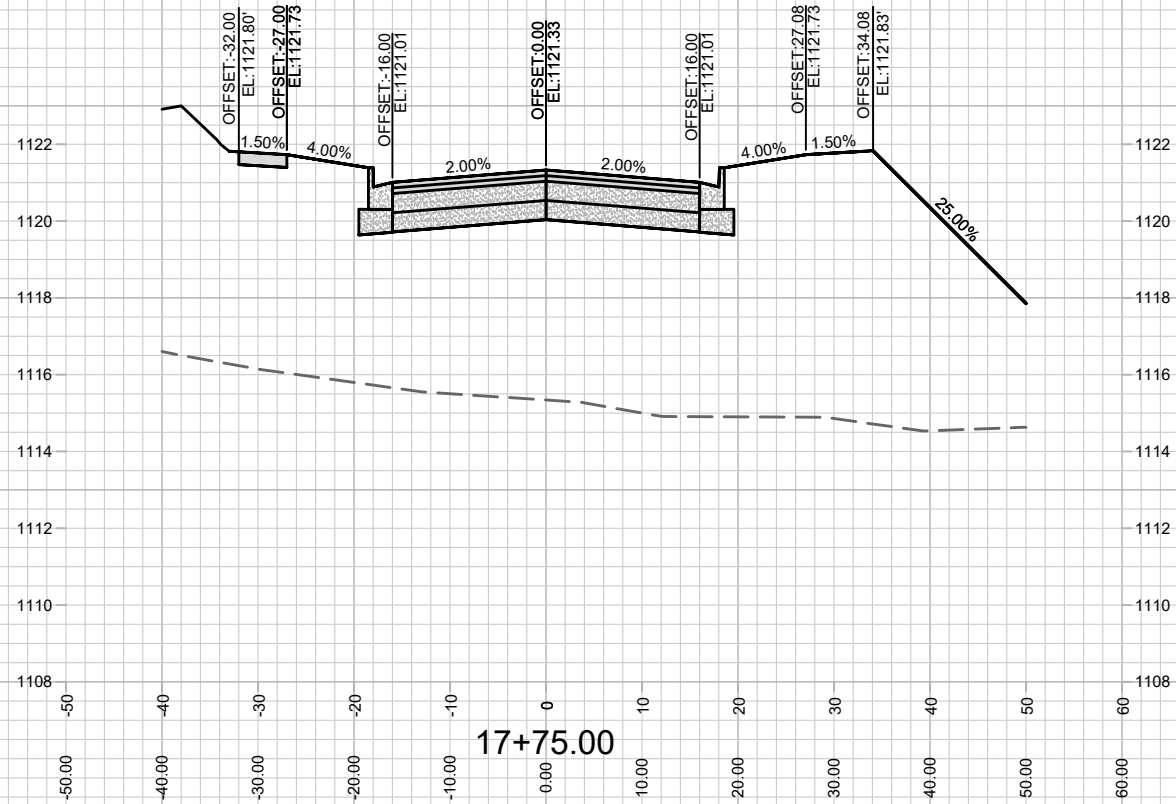
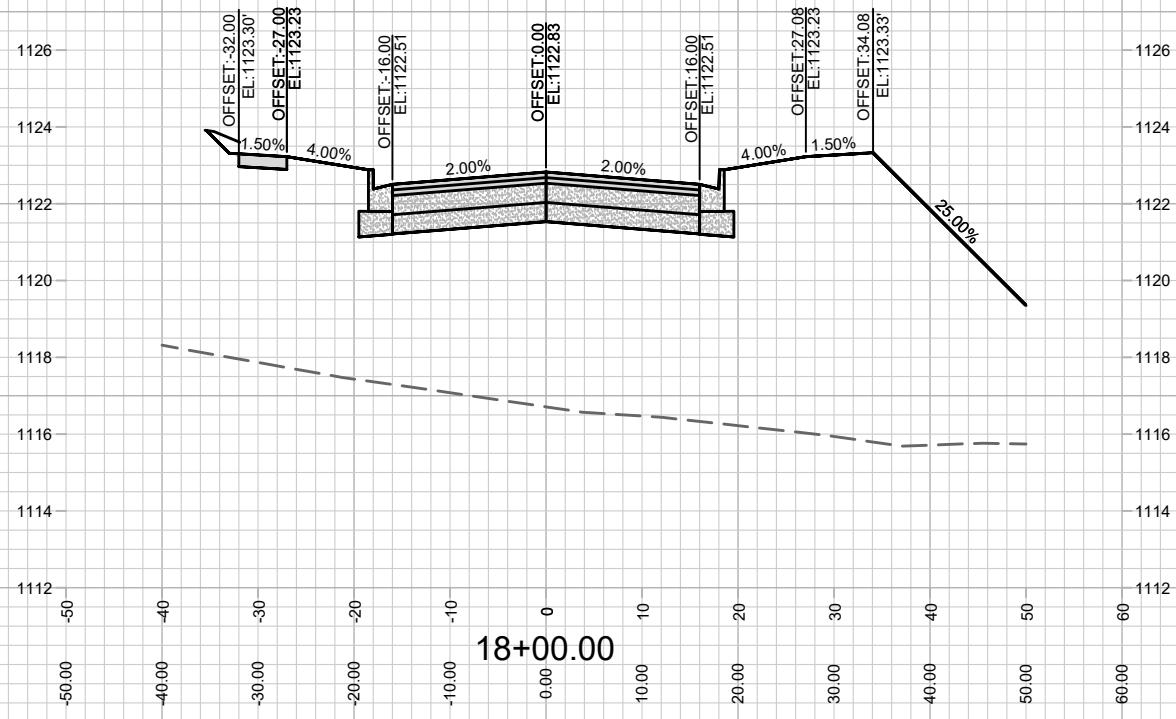
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Designed By: ID
 Date: 5/12/2021 1:26 PM
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 12567
 X-6

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 MADISON, WI
 8517
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CROSS OAK DRIVE X-SECTION
 TWO POINTS CROSSING
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12567
 X-6



MARK	REVISION	DATE	BY

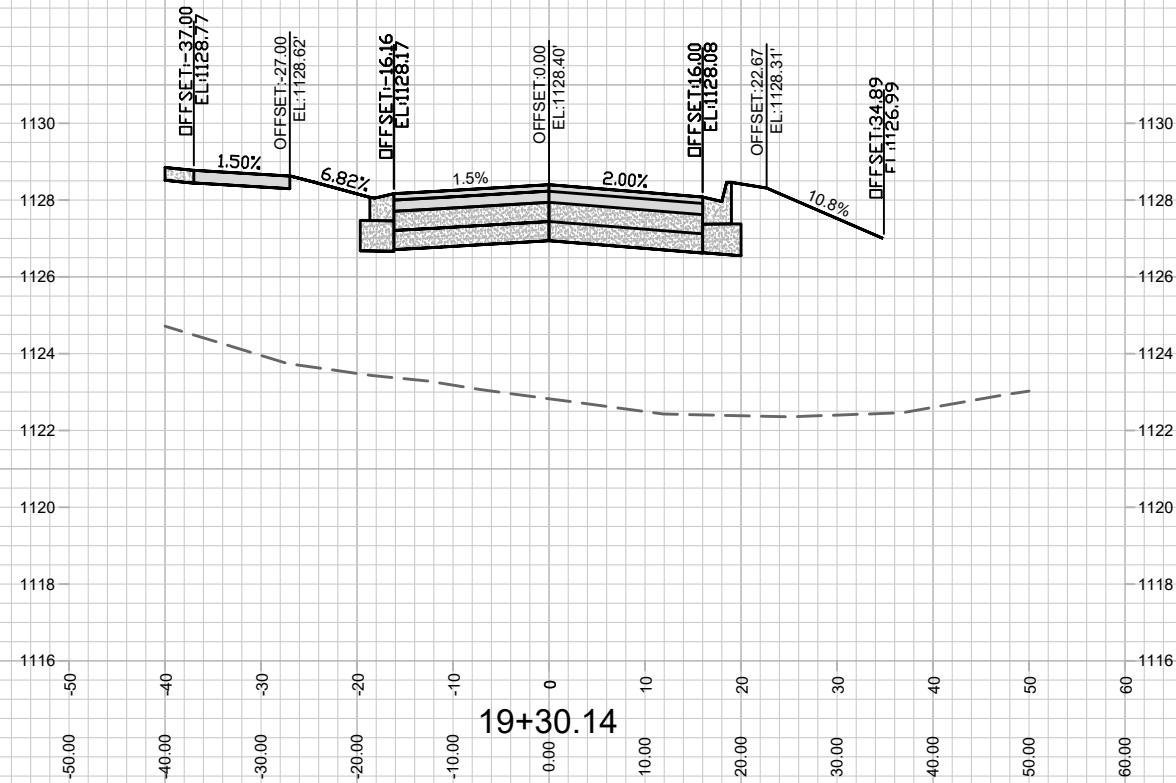
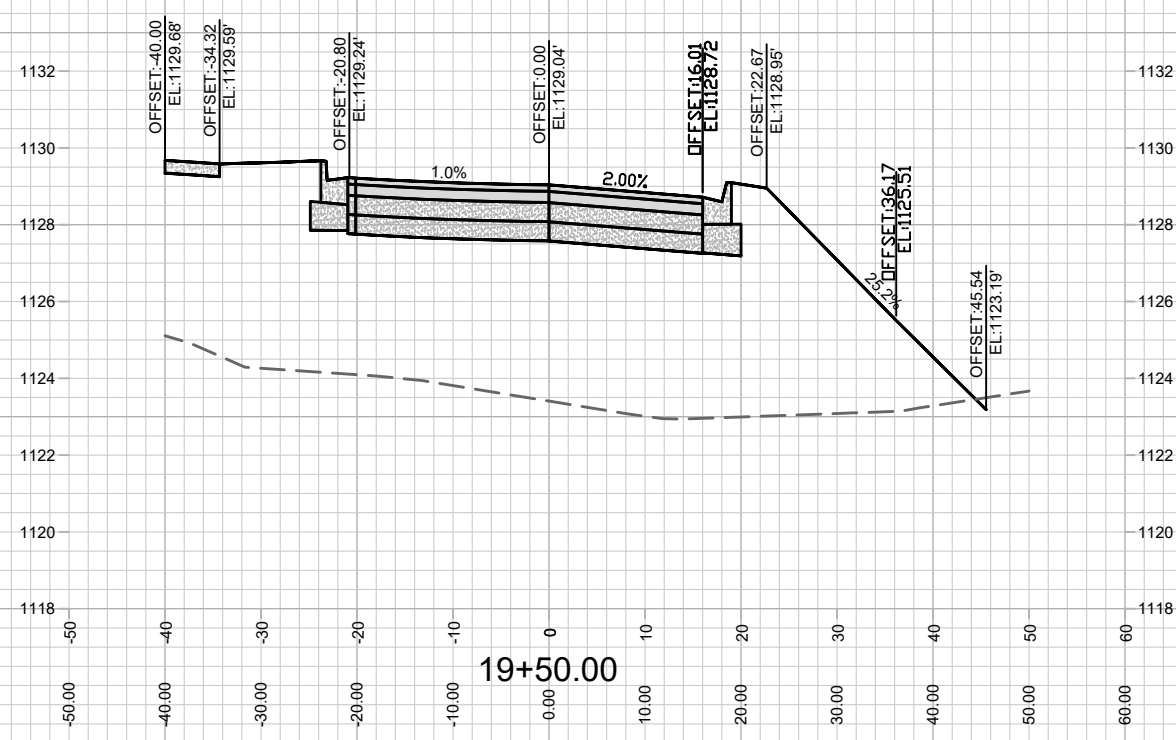
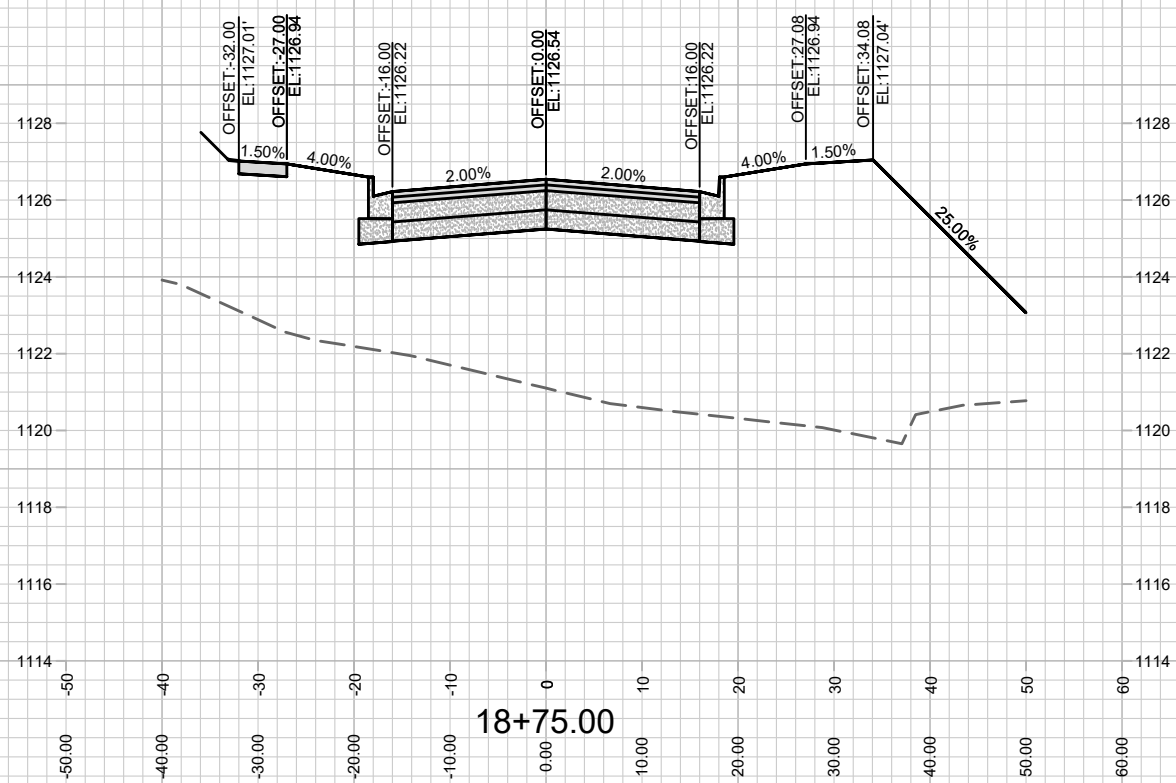
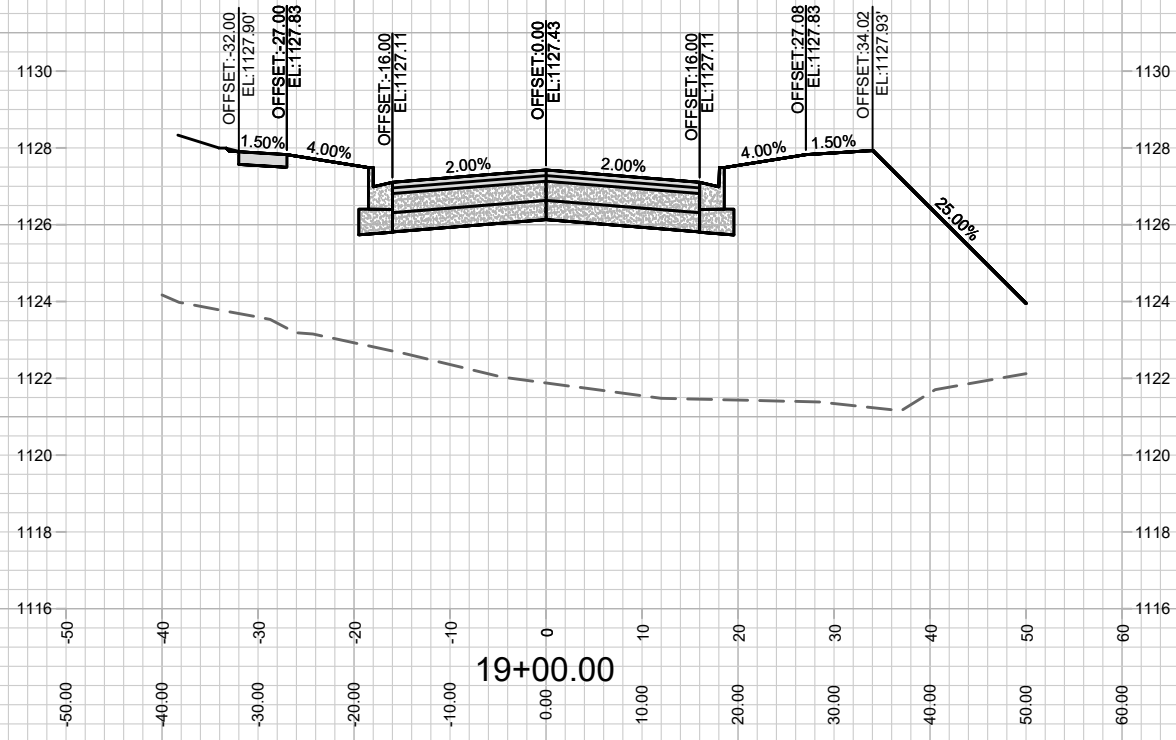
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8517

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING
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12567
X-7



MARK	REVISION	DATE	BY

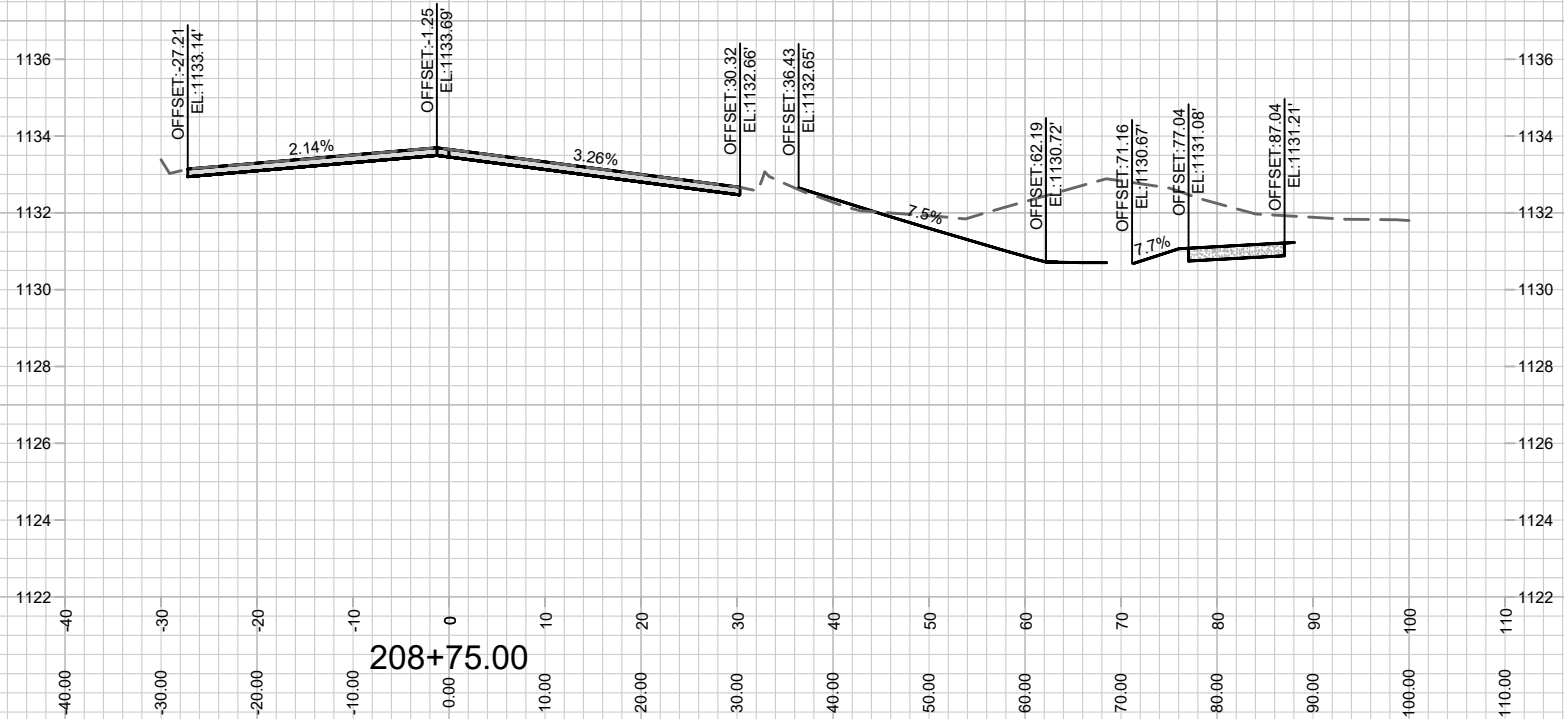
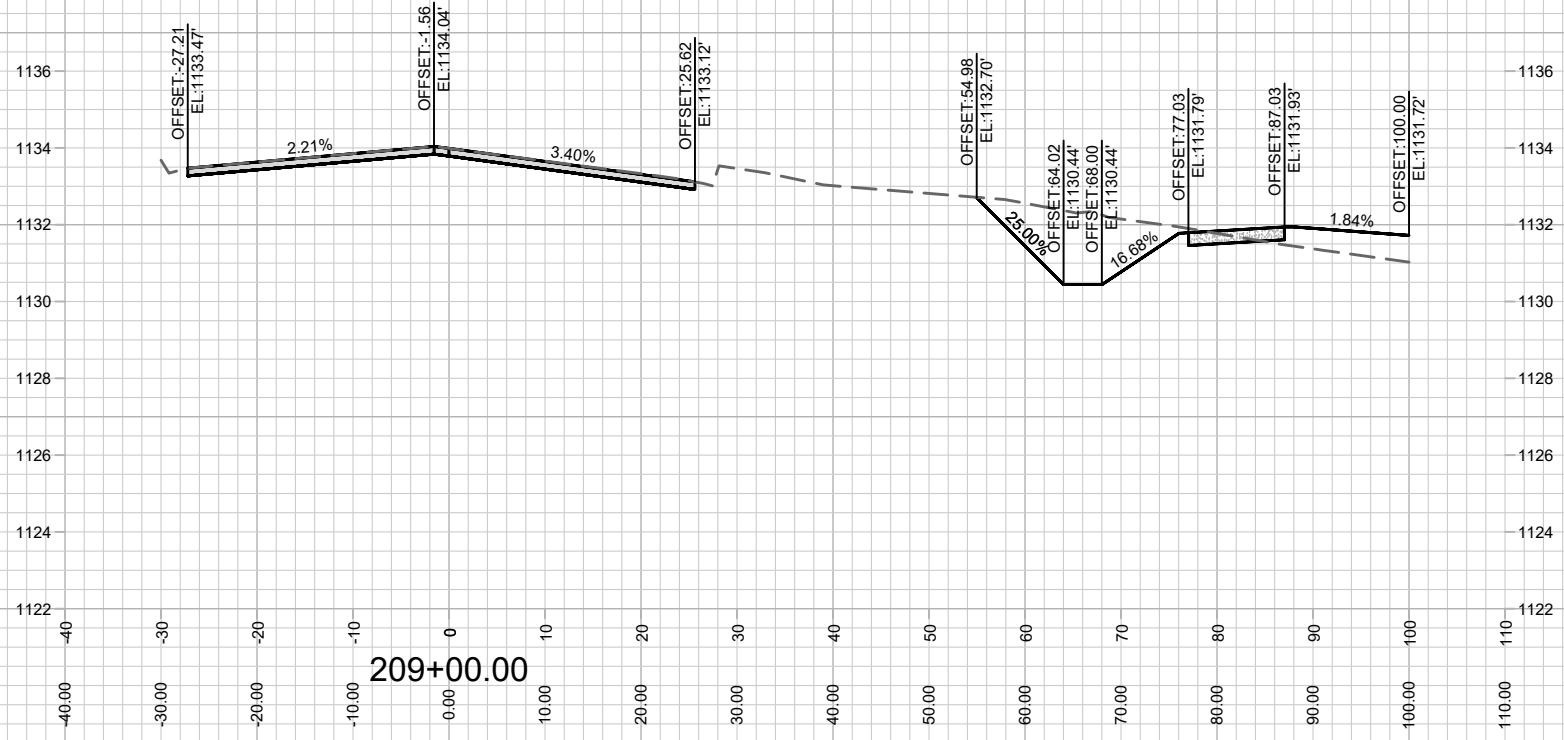
12567
MADISON, WI
8517

CROSS OAK DRIVE X-SECTION
TWO POINTS CROSSING
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X-8

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Date: 5/12/2021 10:52 AM
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X-8



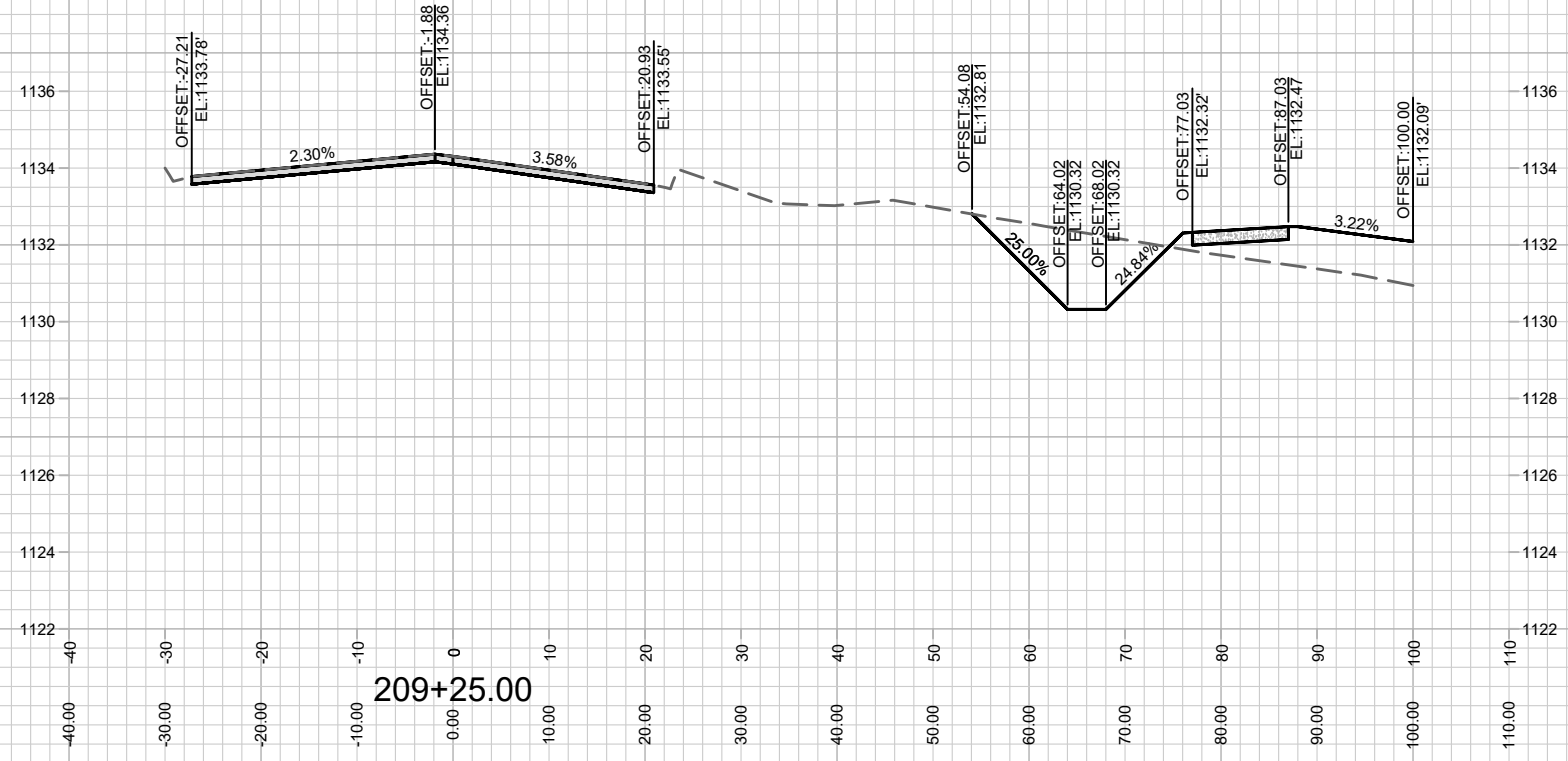
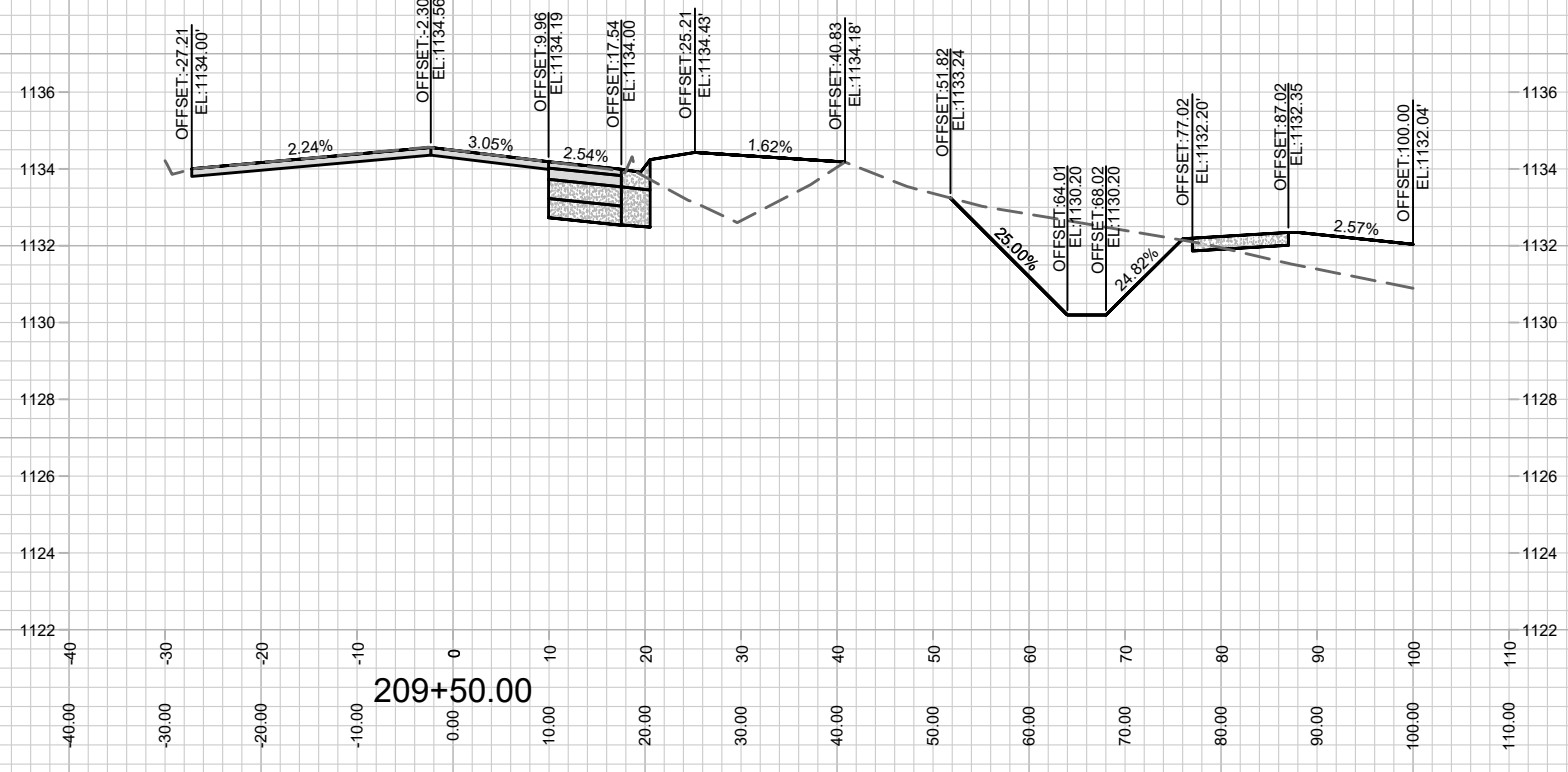
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MINERAL POINT ROAD X-SECTION
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X-9



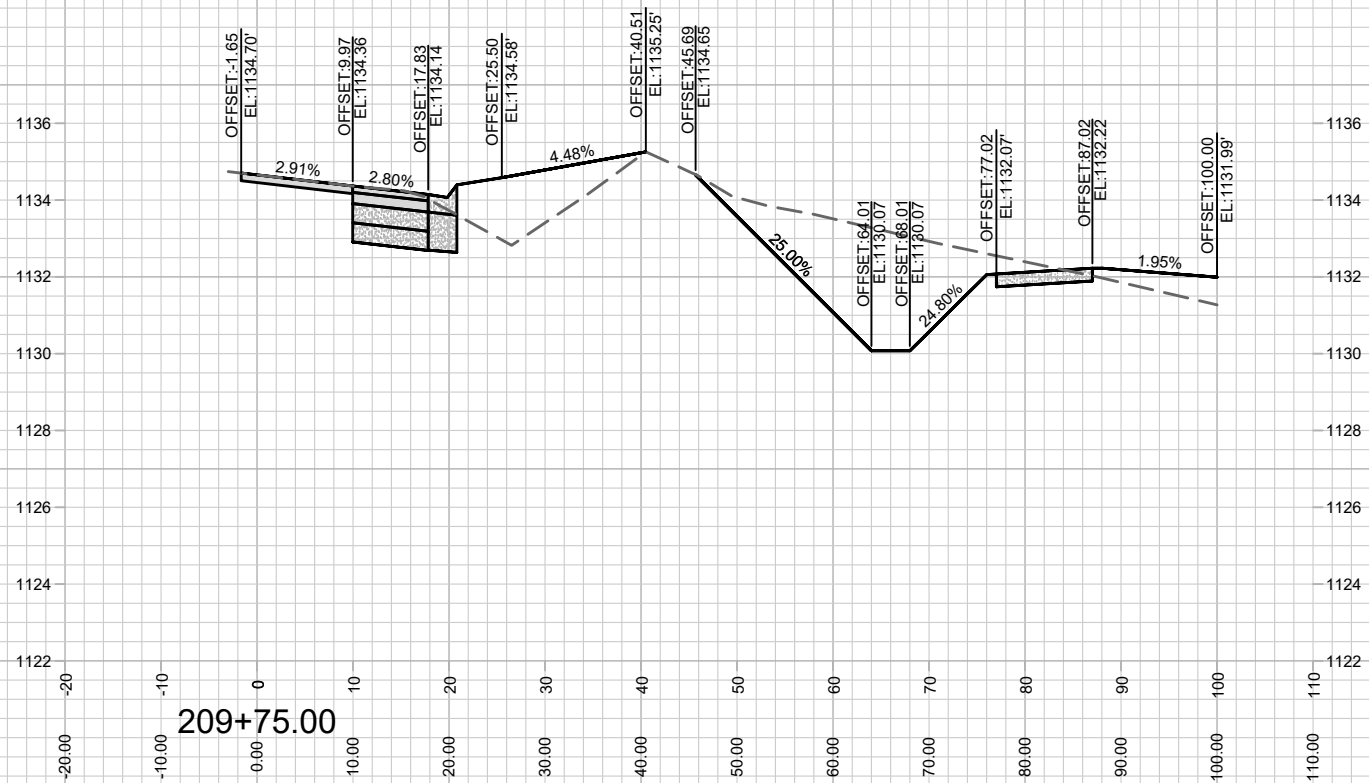
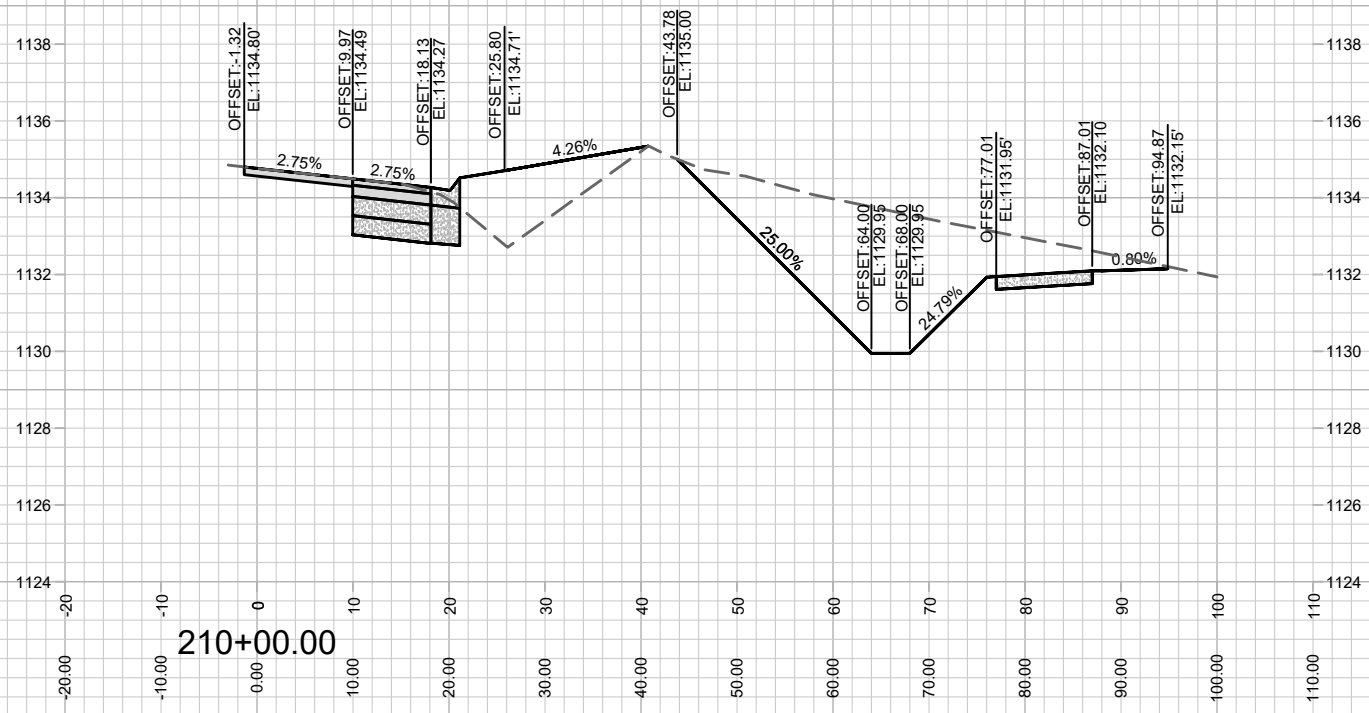
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8517
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X-10

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X-10

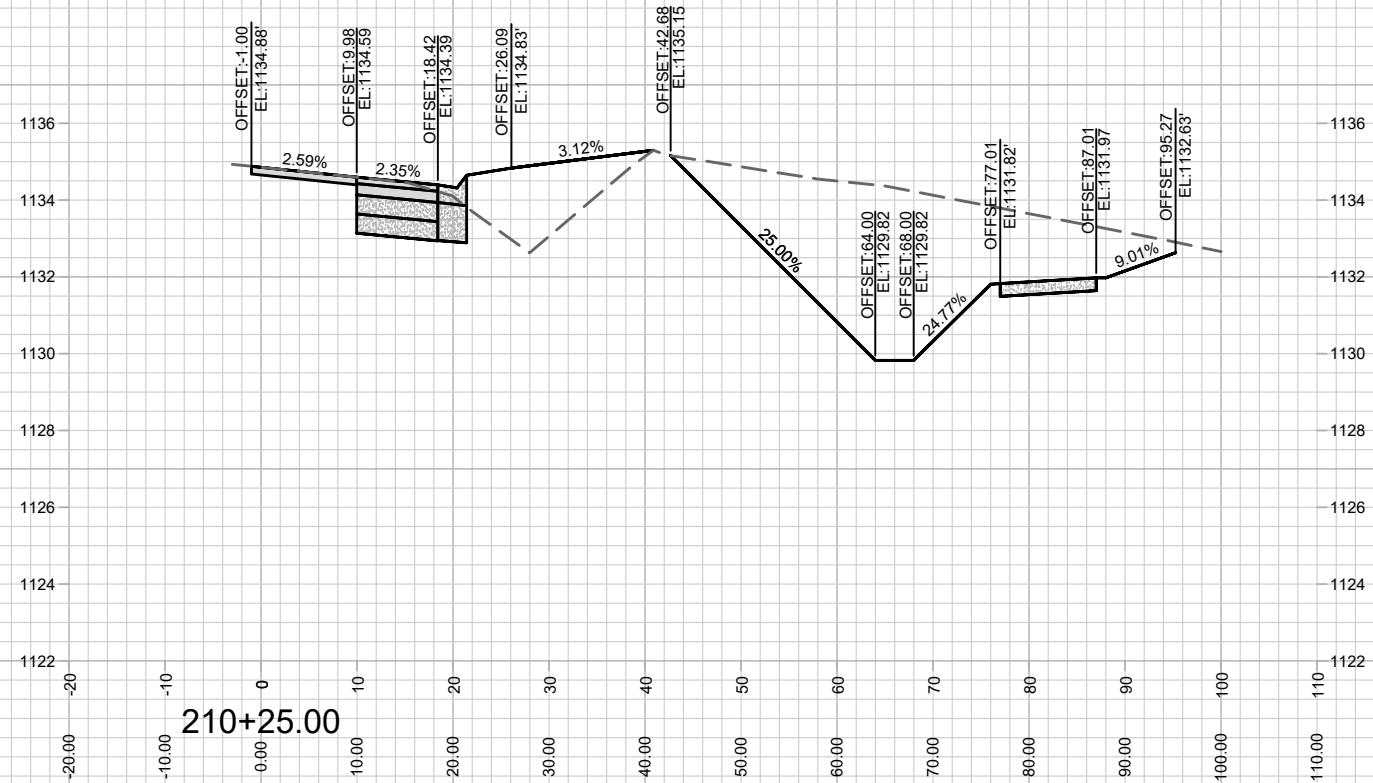
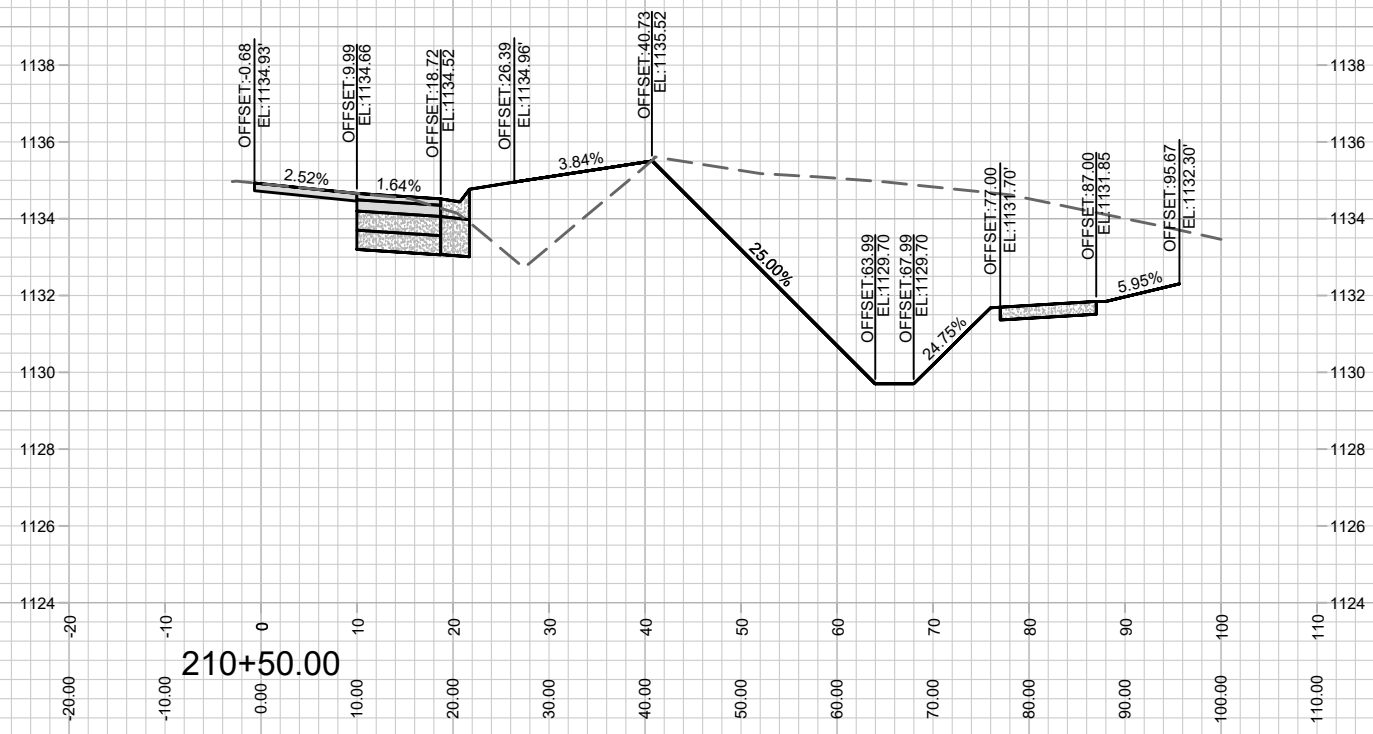


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12567
MADISON, WI
8517
CONTRACT NO:

MINERAL POINT ROAD X-SECTION
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X-11



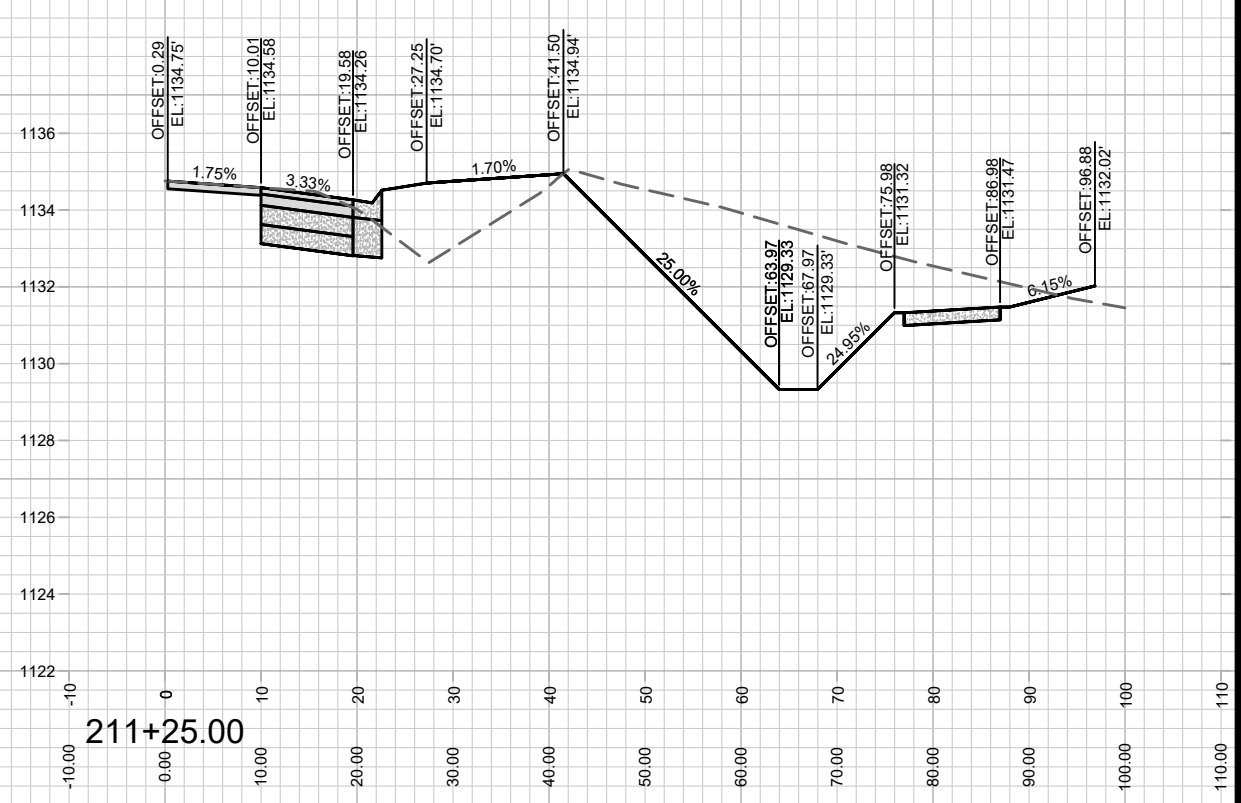
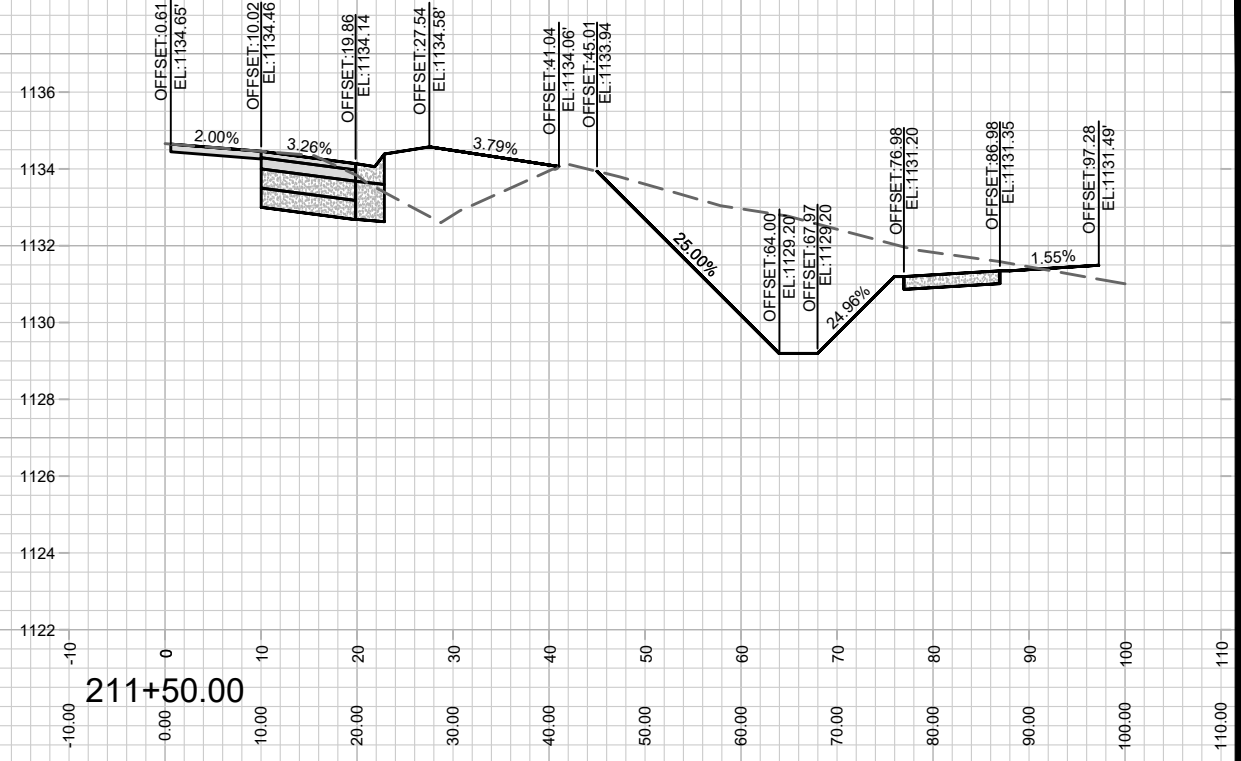
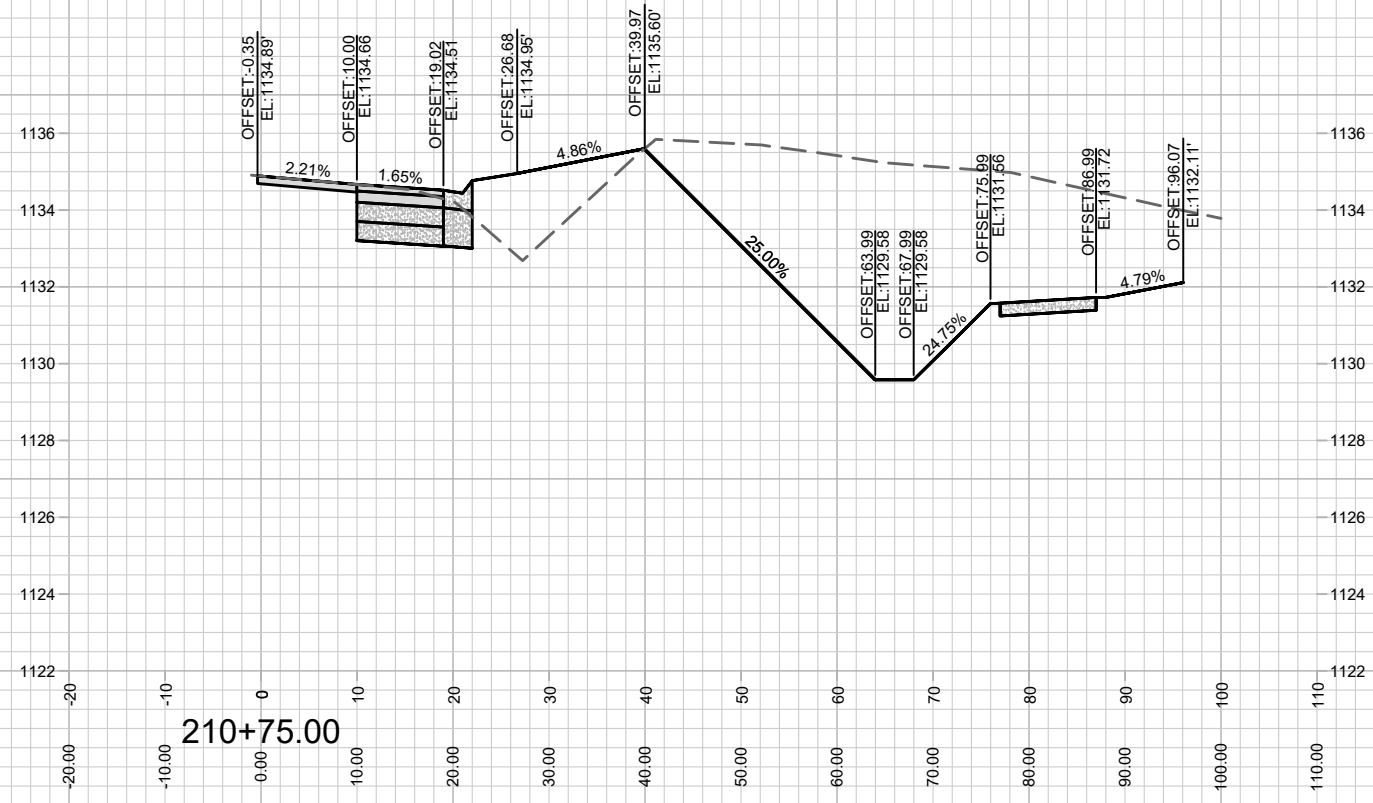
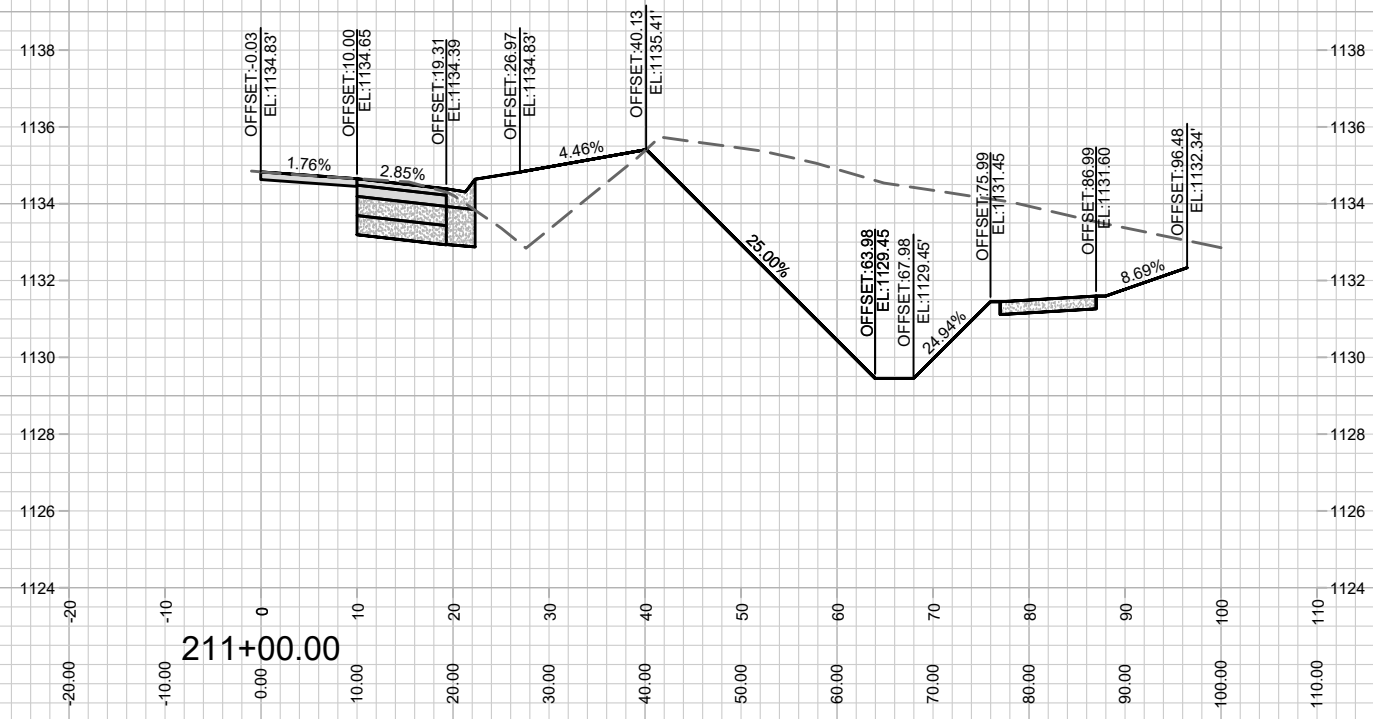
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X-12

MINERAL POINT ROAD X-SECTION
TWO POINTS CROSSING
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8517

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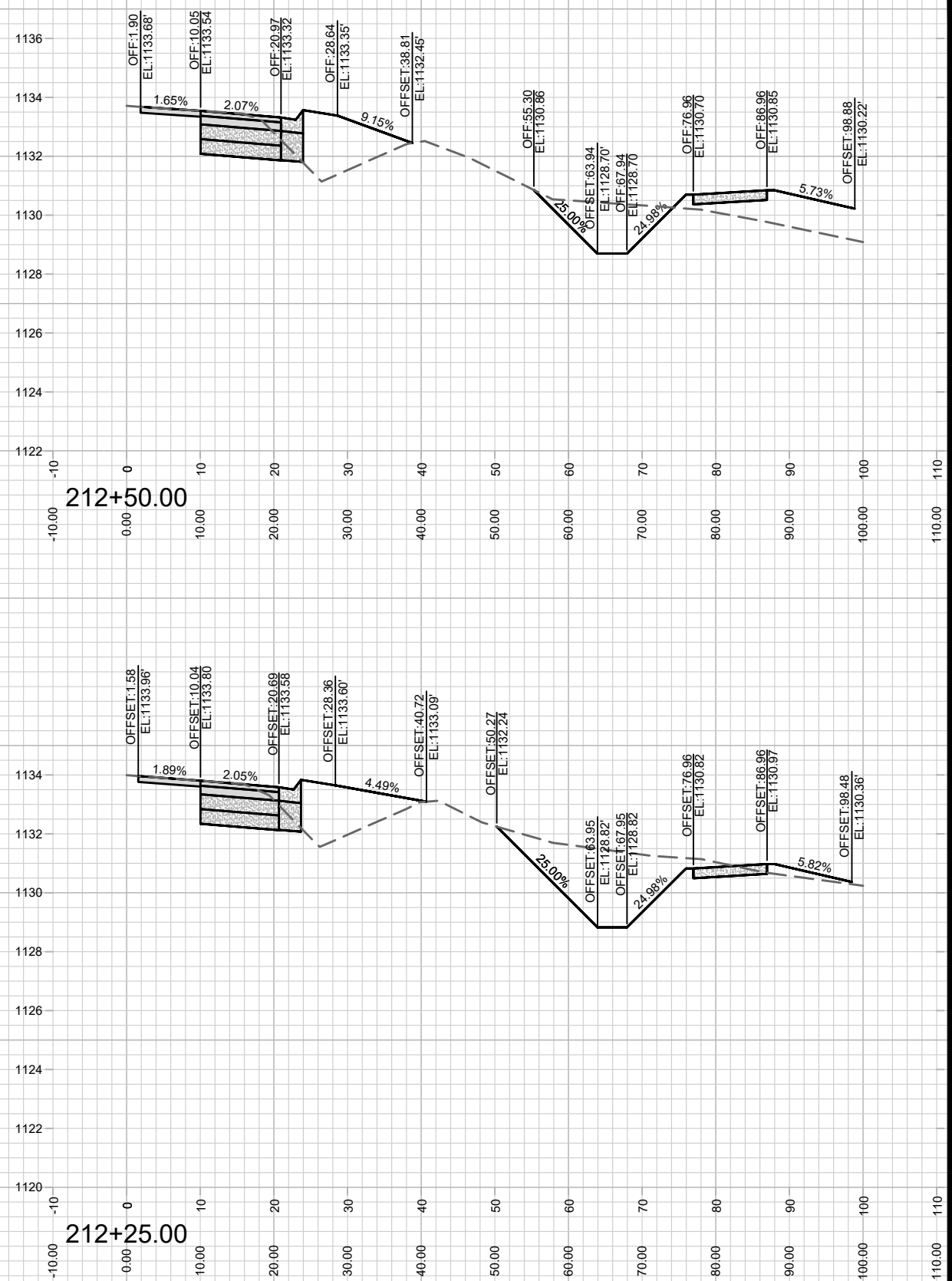
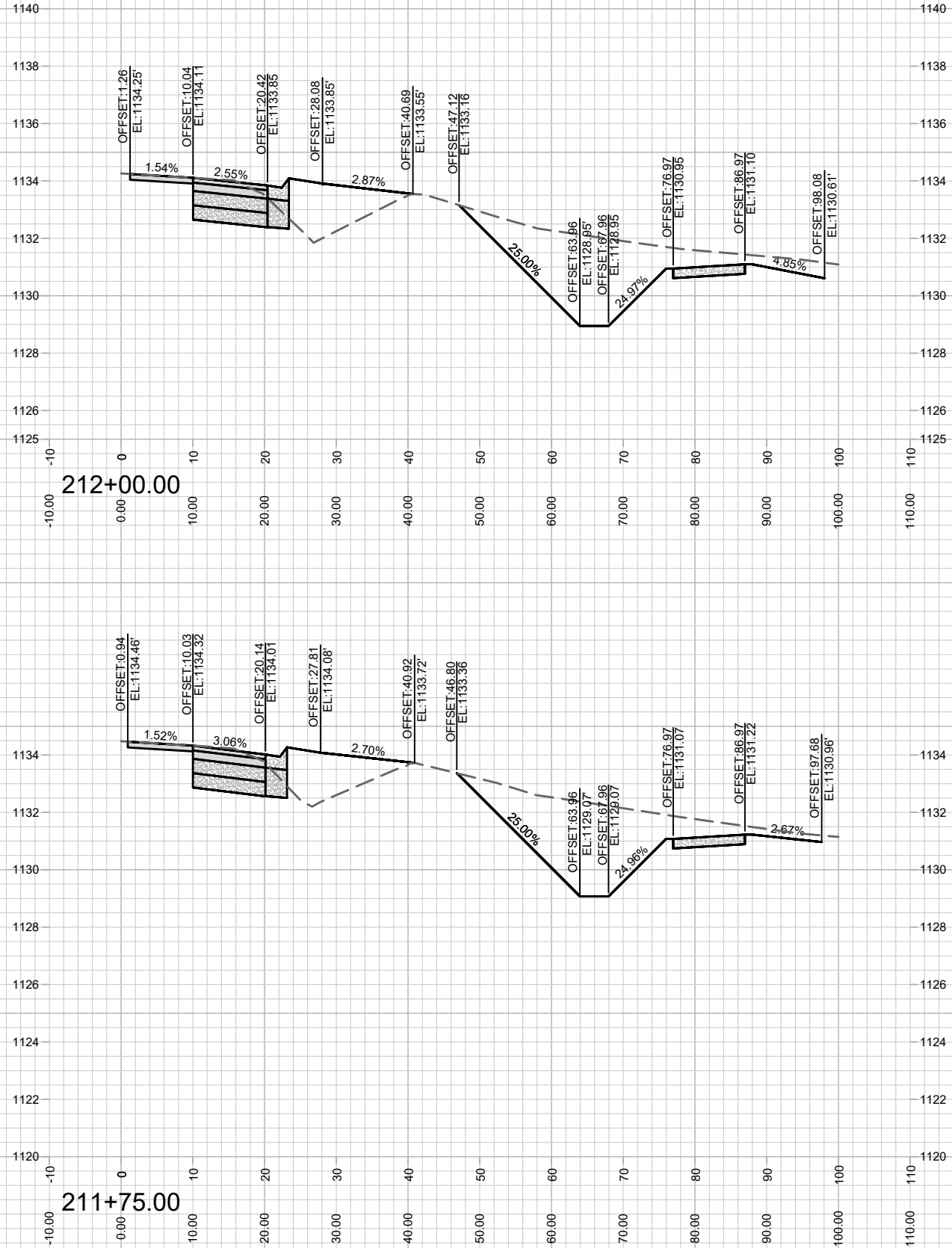


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 X-13



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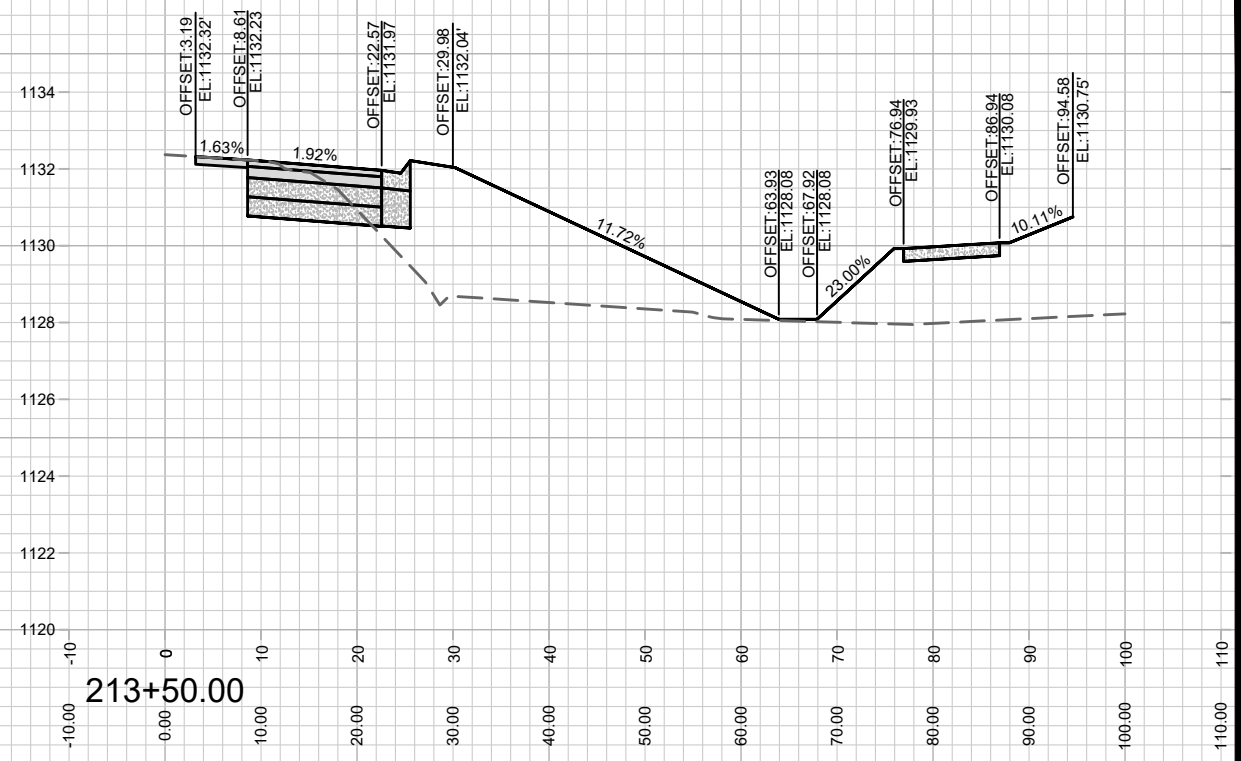
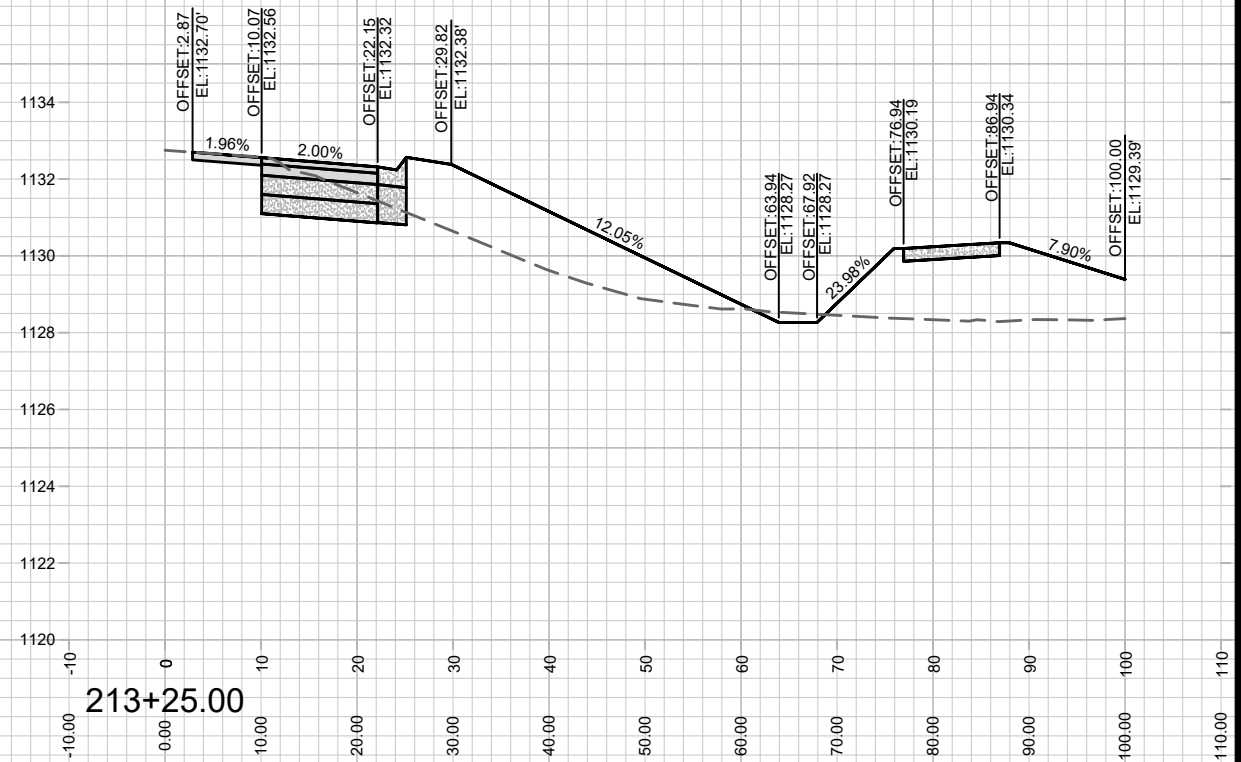
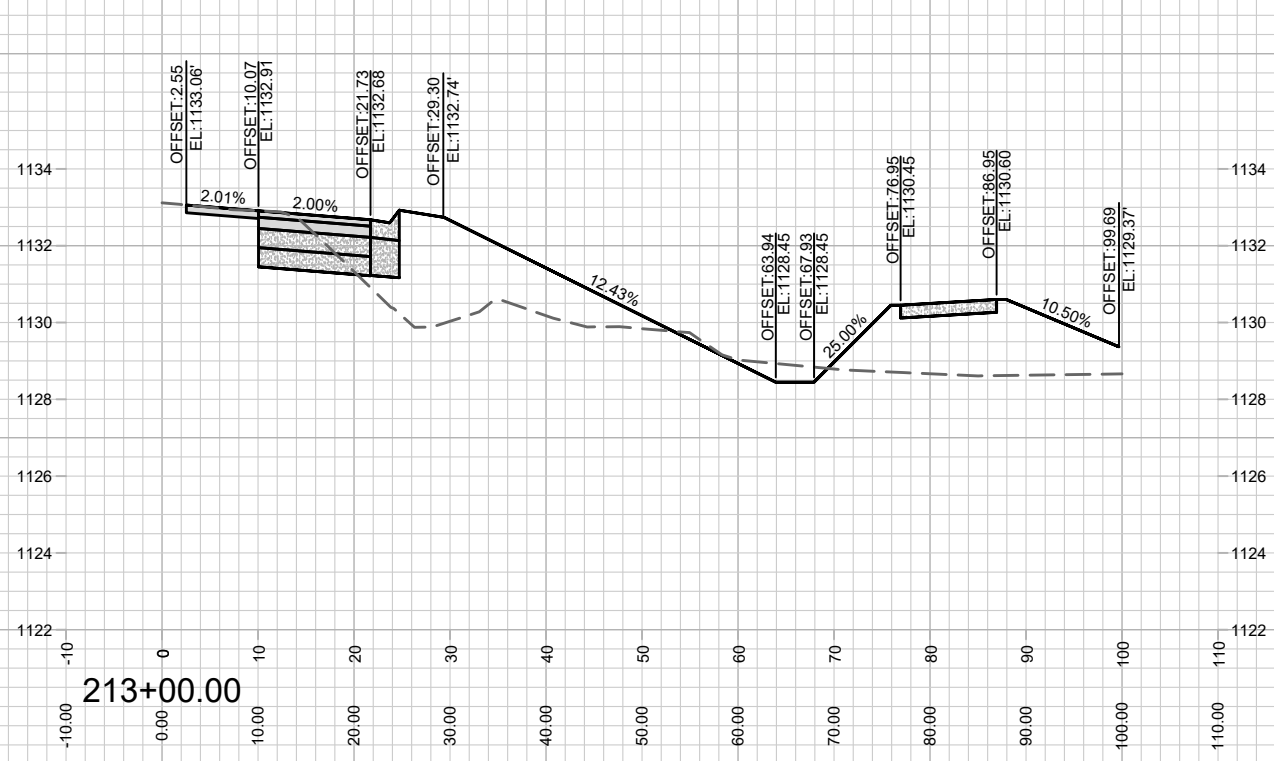
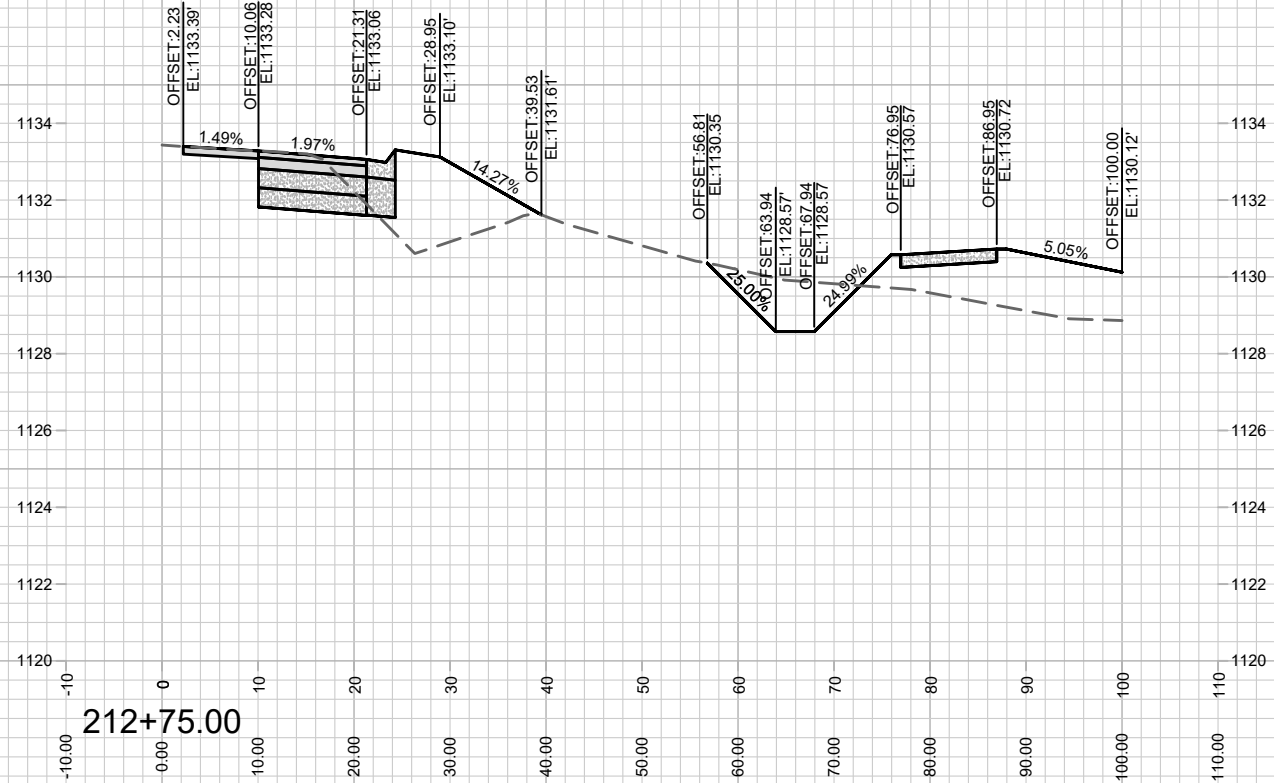
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X-14

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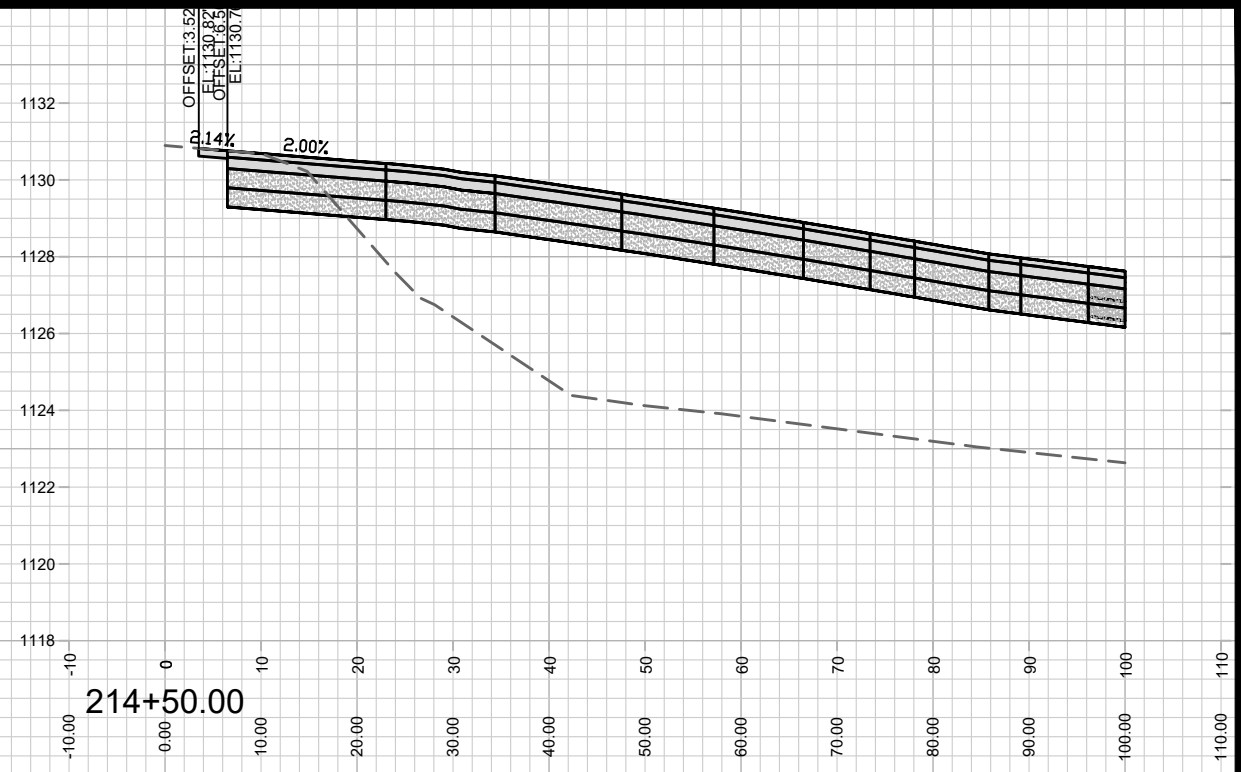
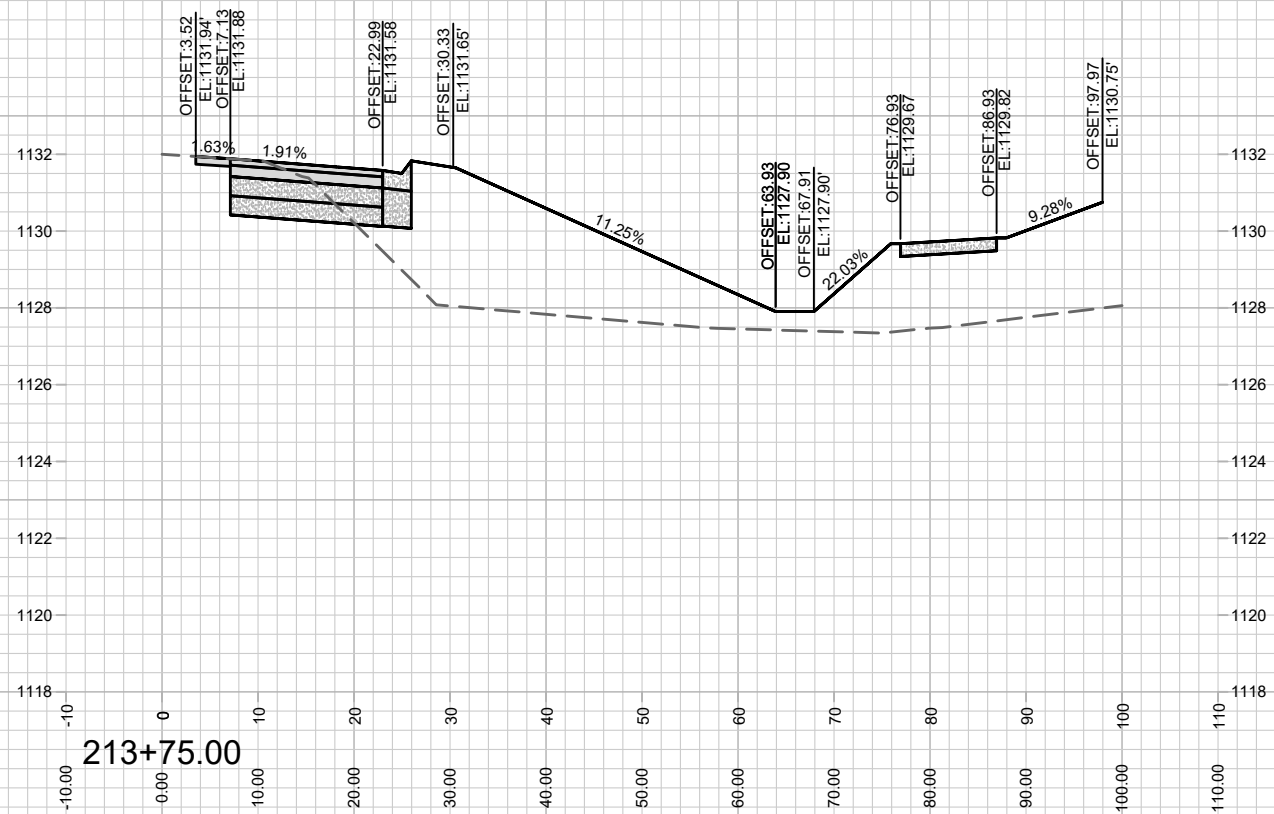
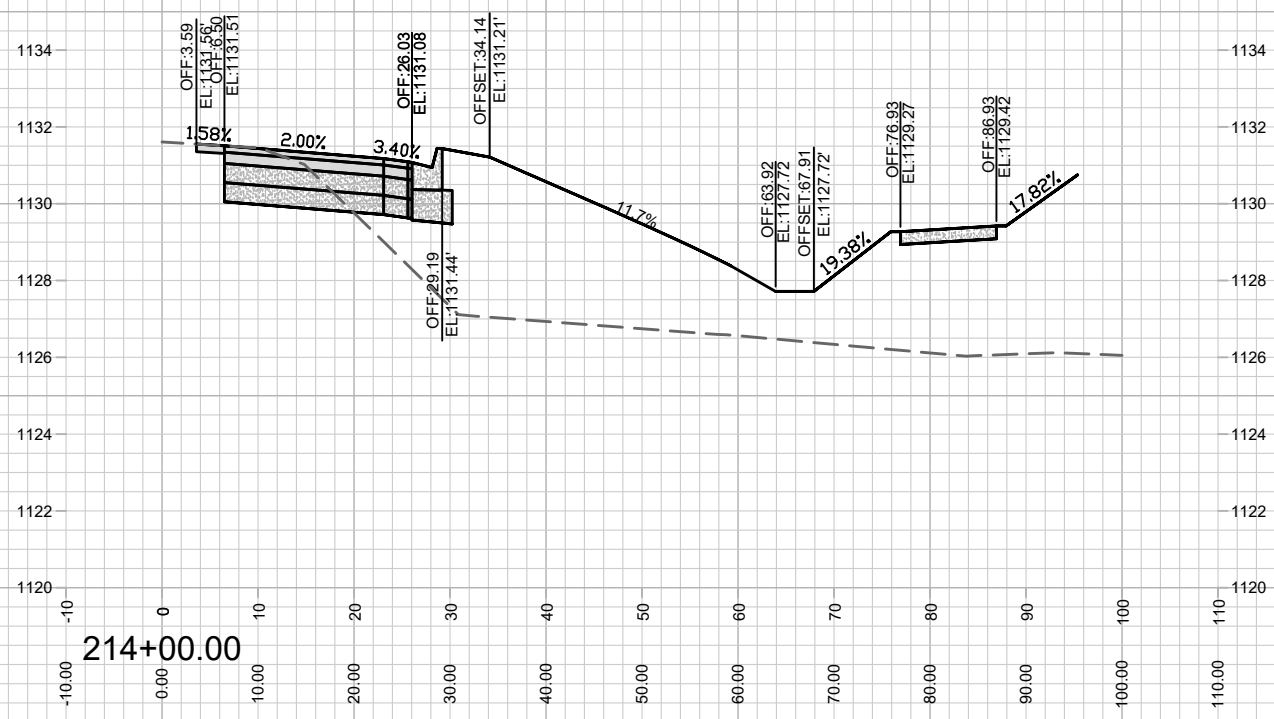
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 8517
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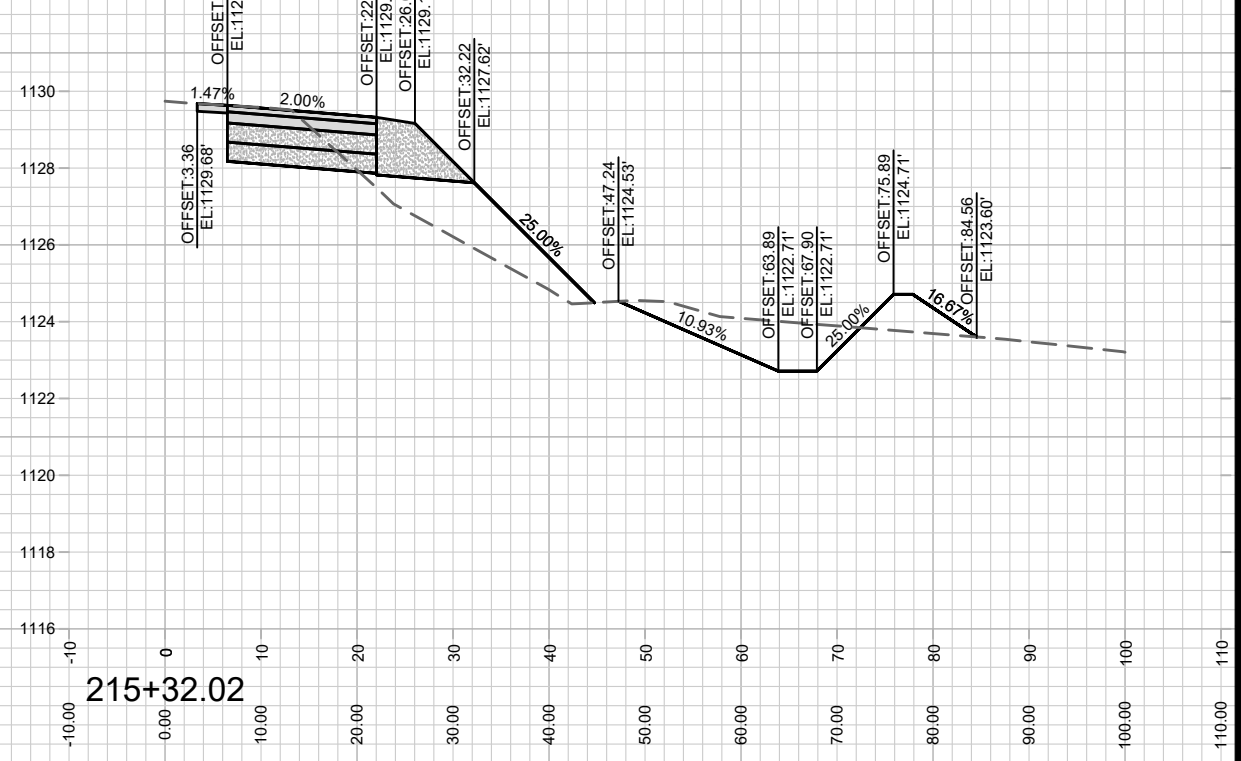
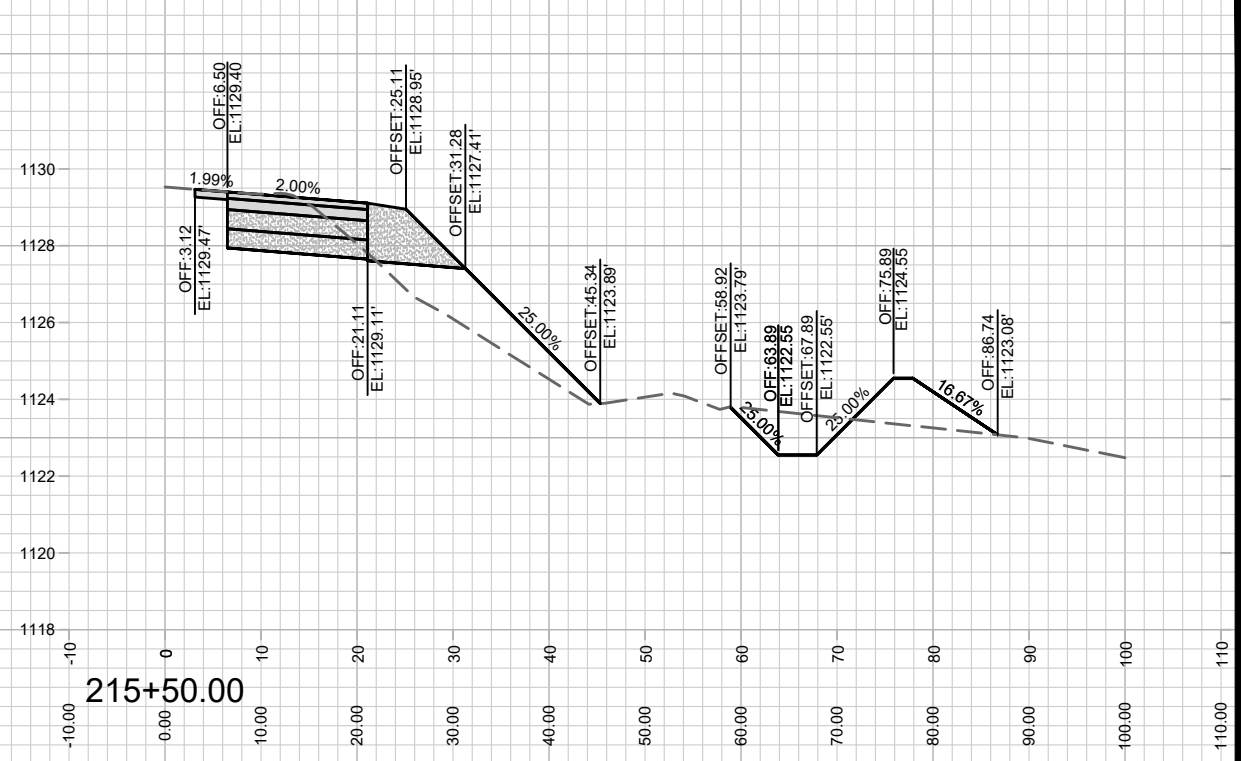
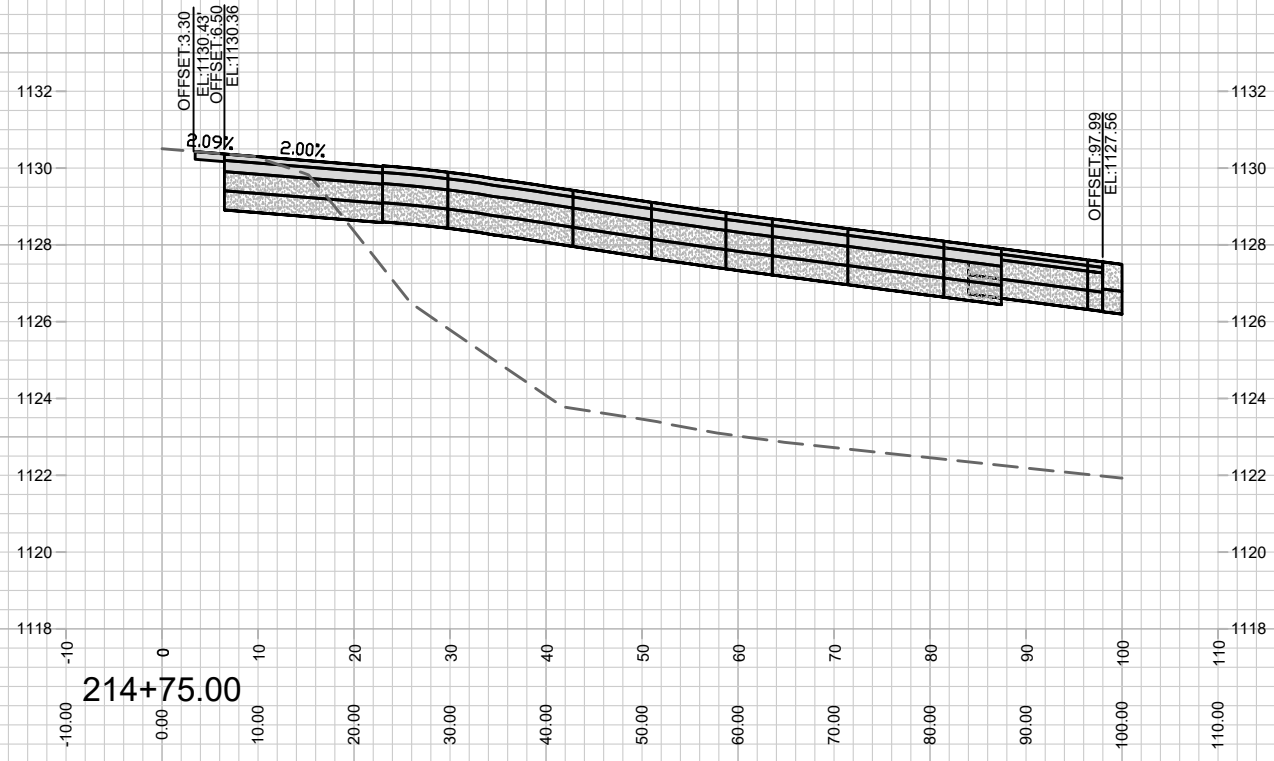
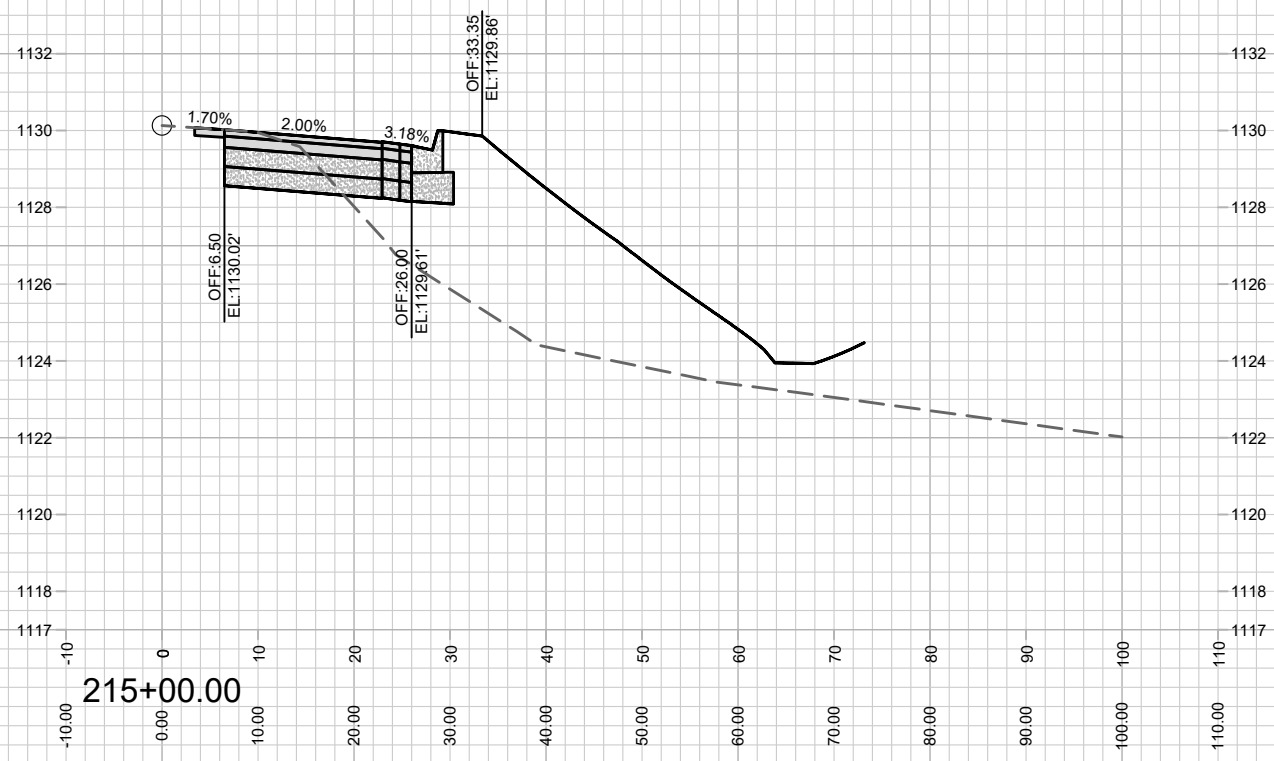
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X-16

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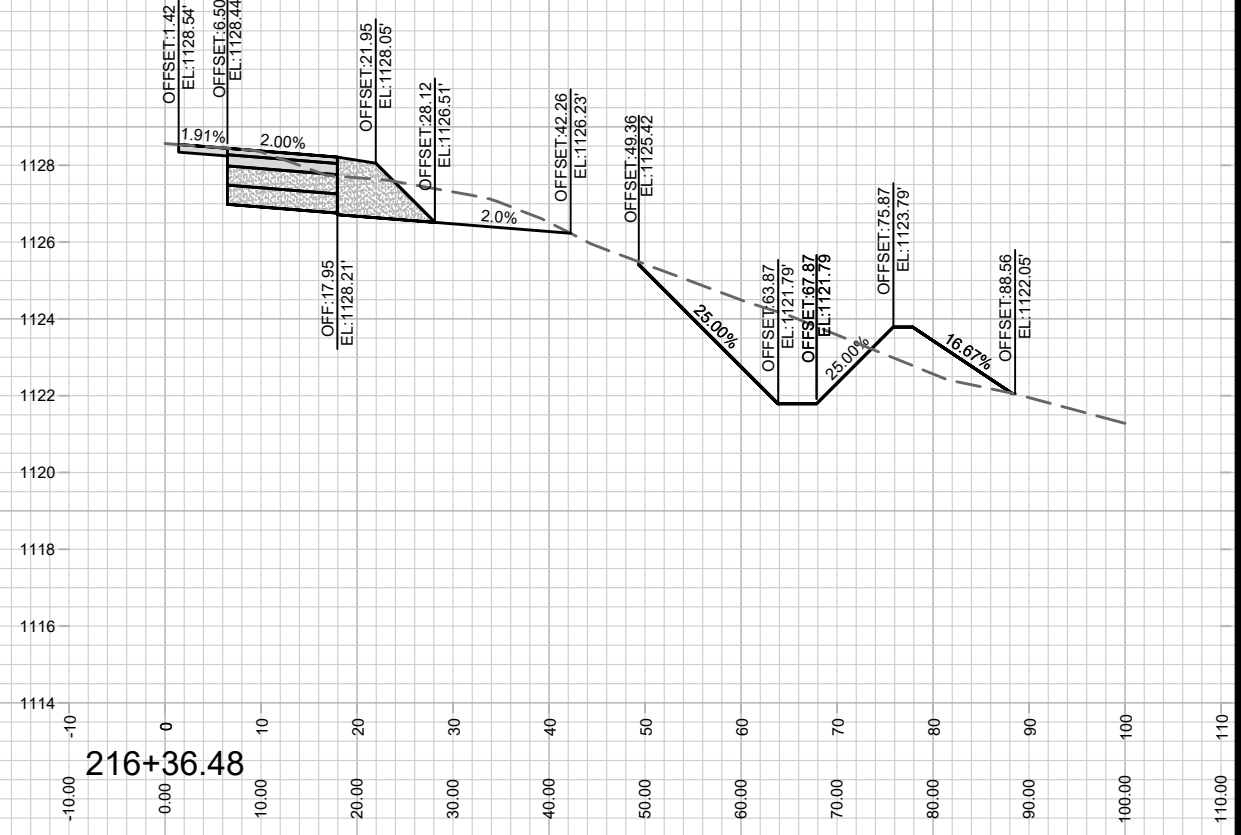
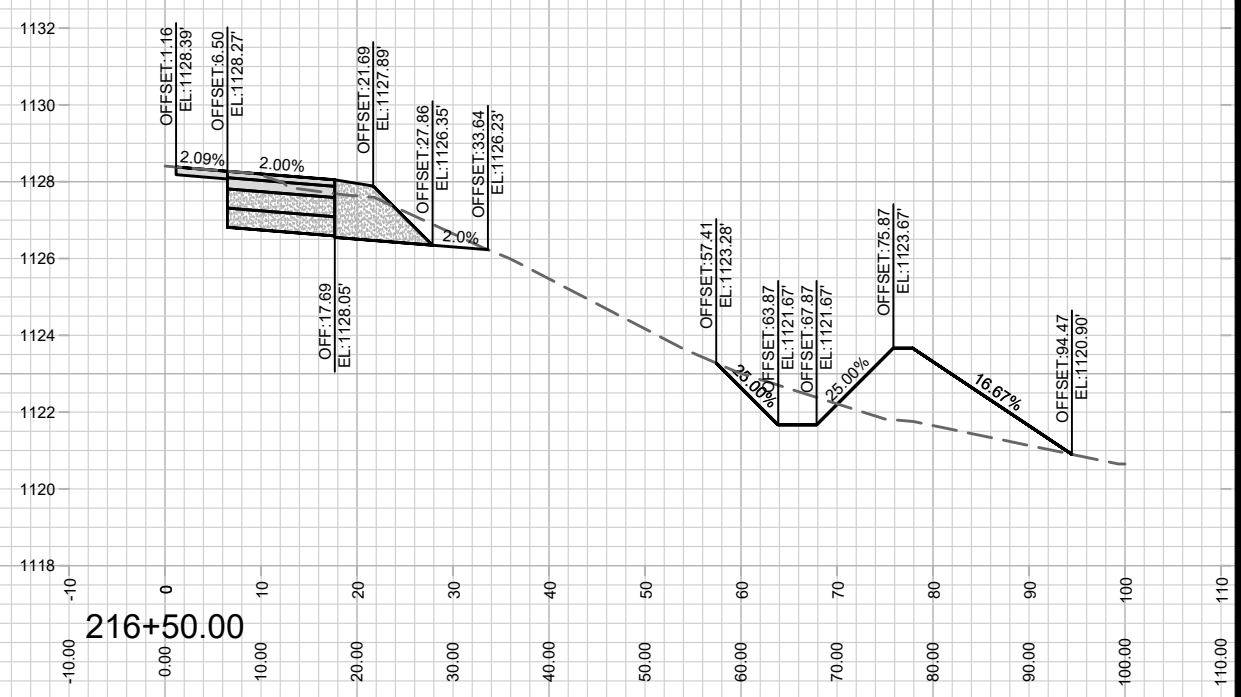
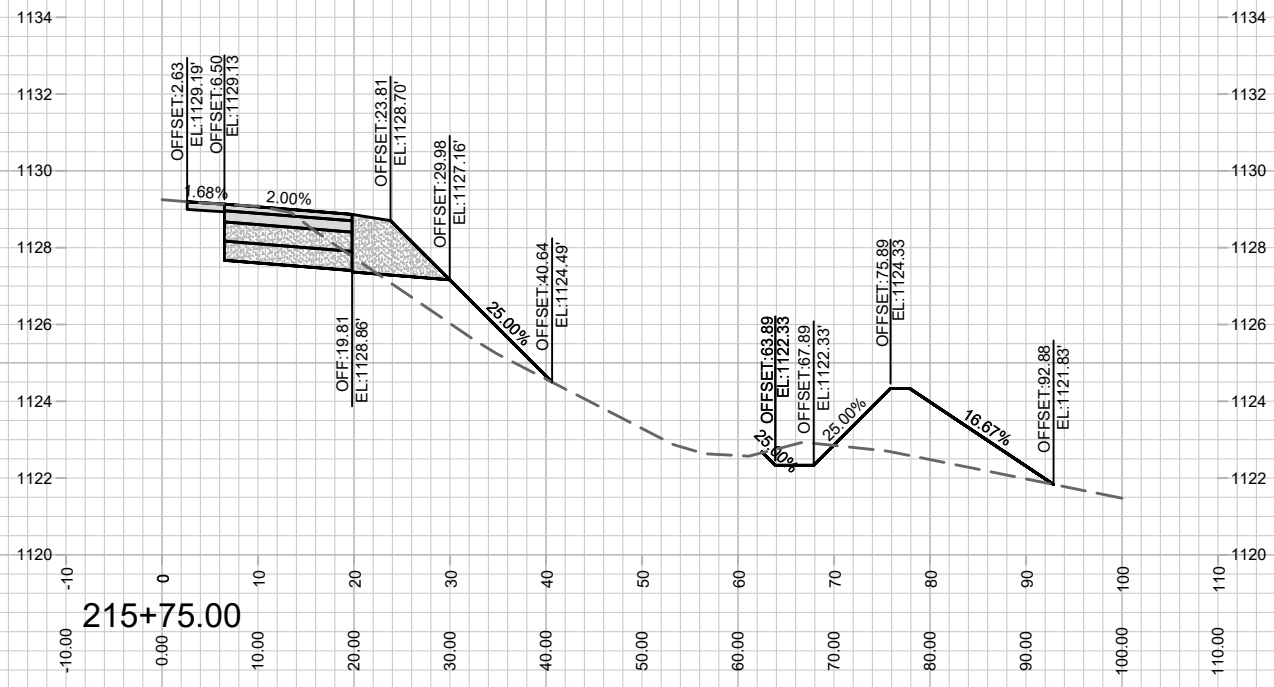
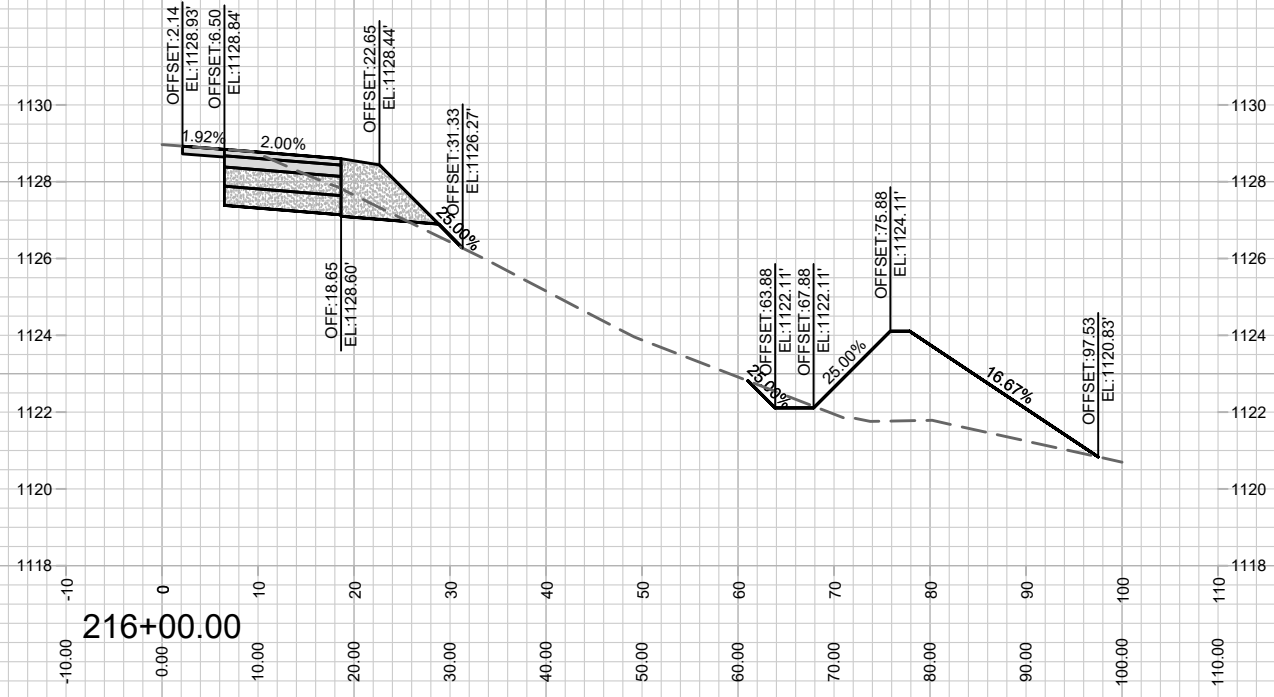
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 X-17



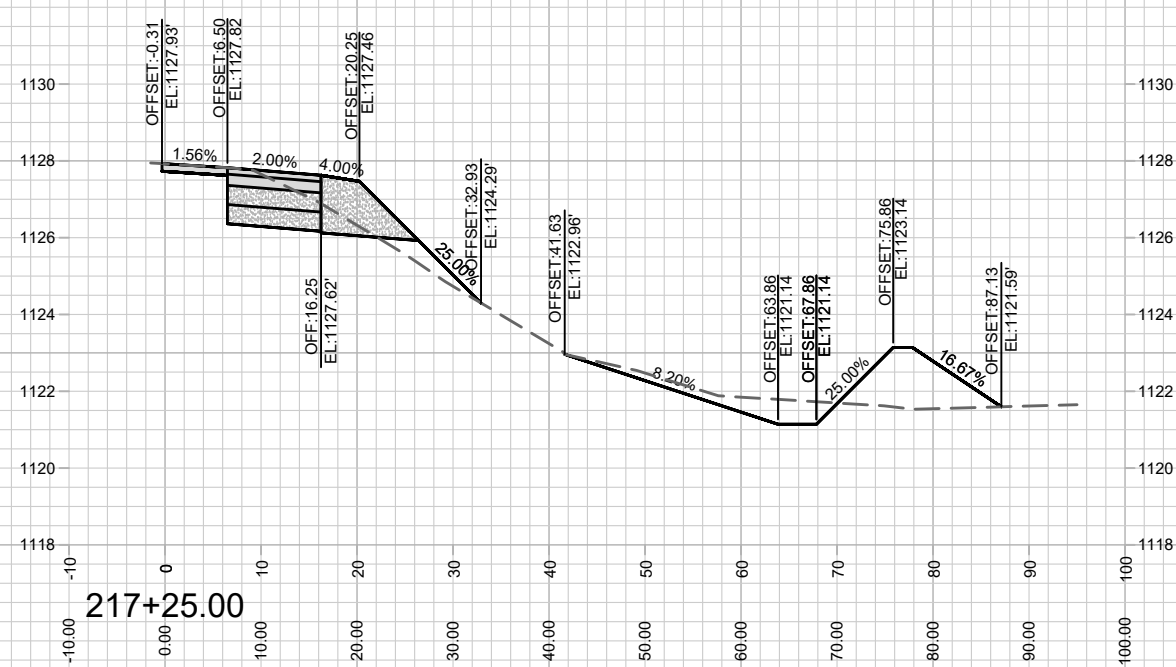
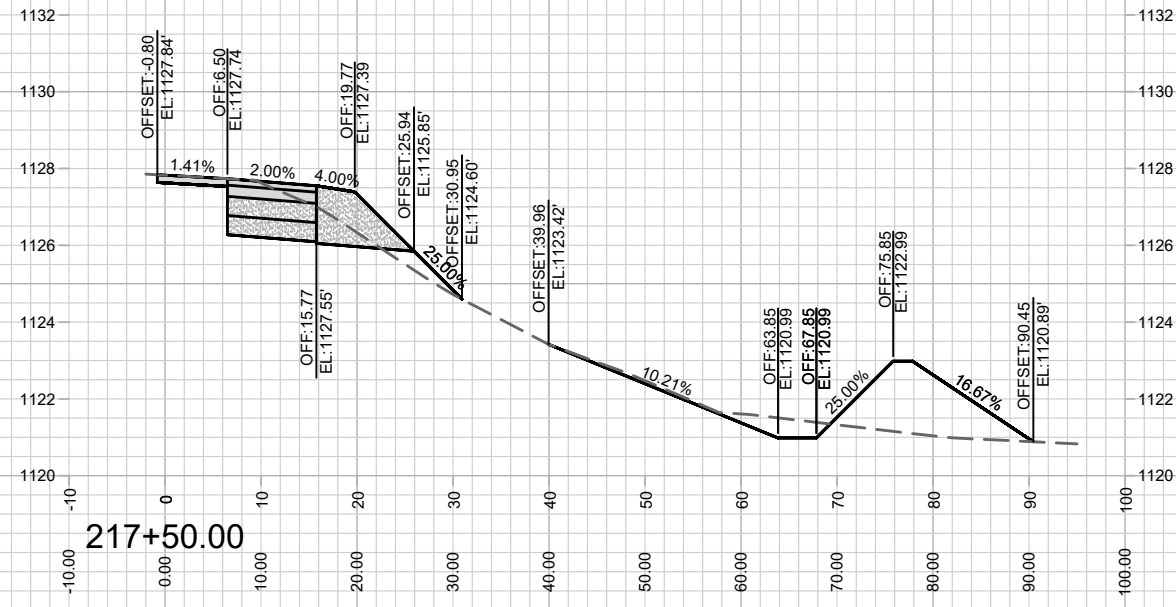
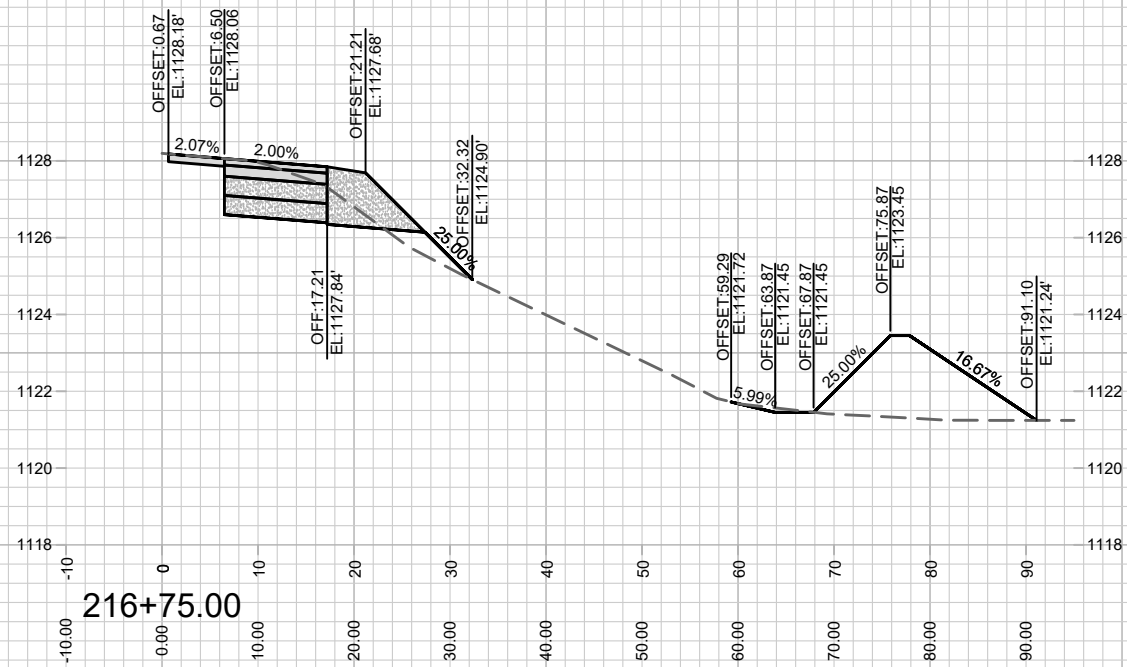
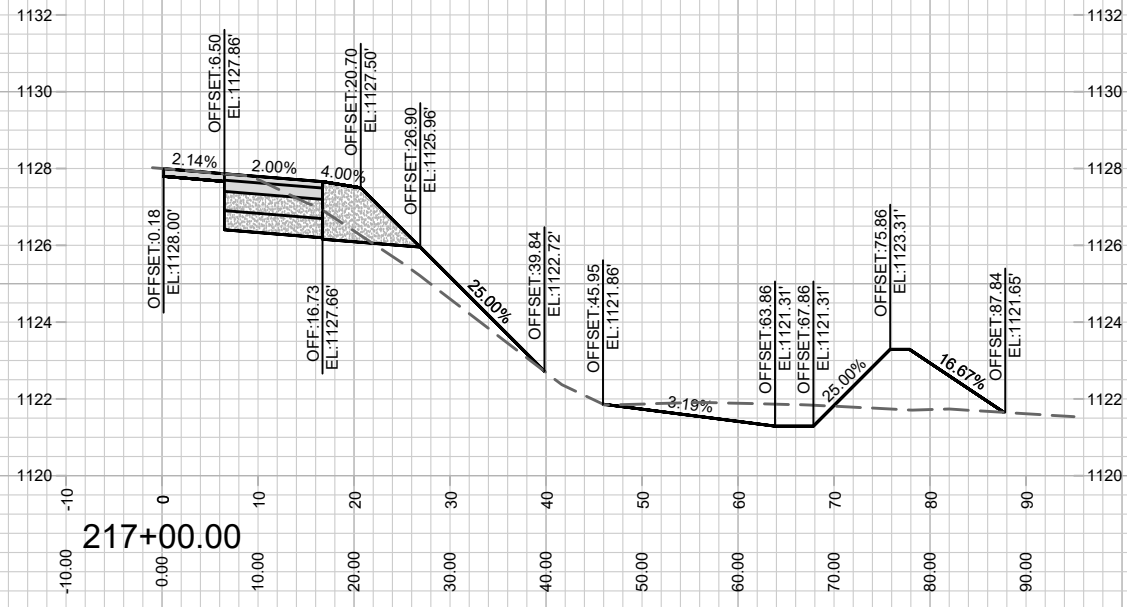
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12567
X-18



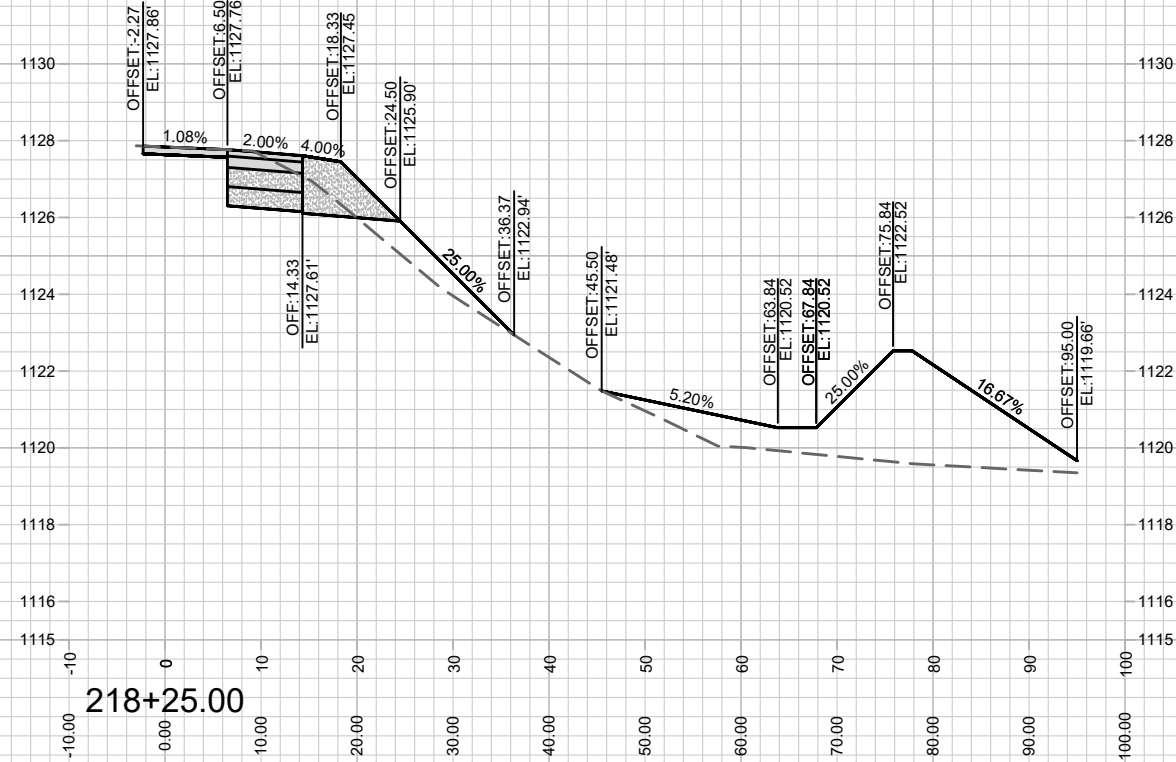
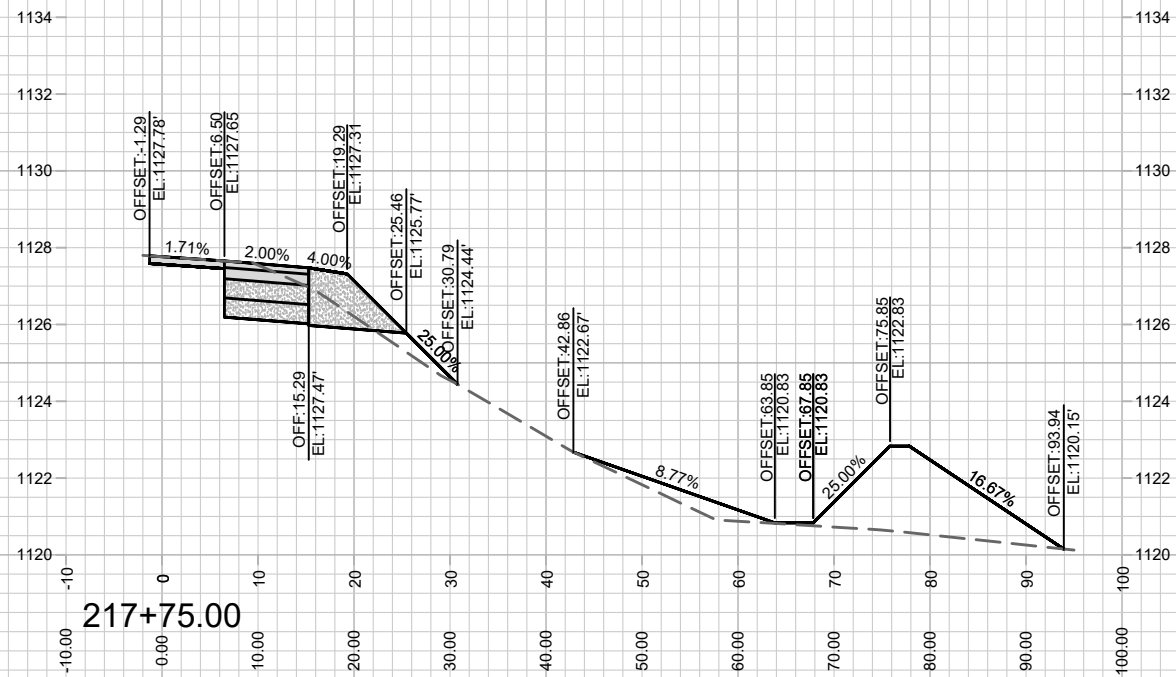
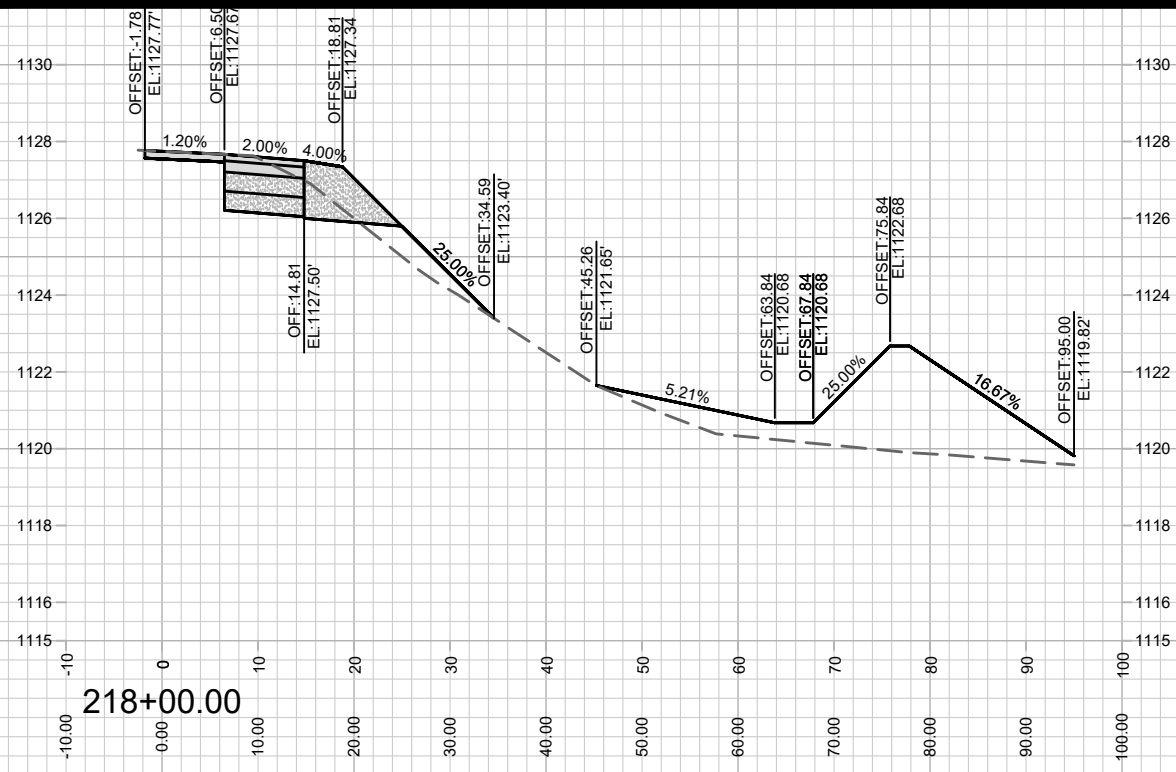
MARK	REVISION	DATE	BY

12567
MADISON, WI
8517
CONTRACT NO:

MINERAL POINT ROAD X-SECTION
TWO POINTS CROSSING
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12567
X-19

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X-19



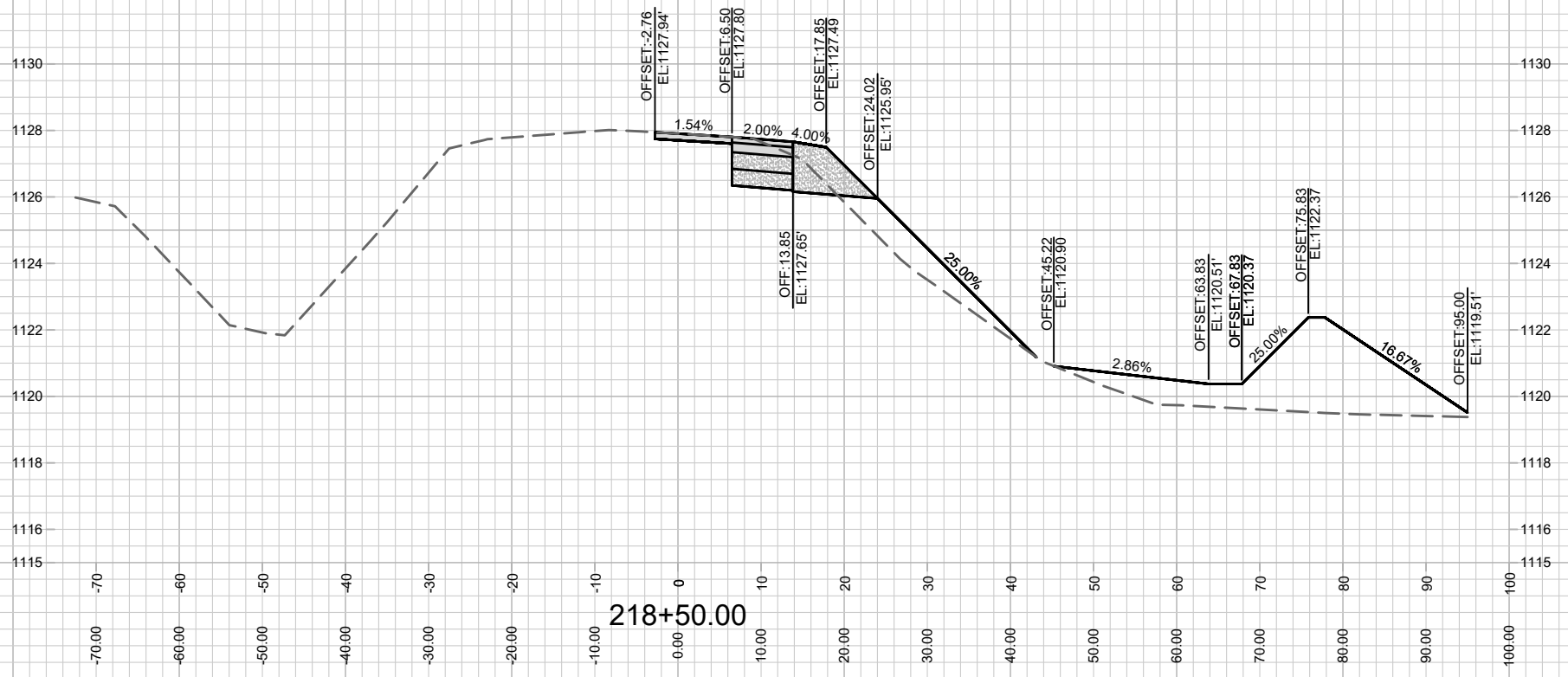
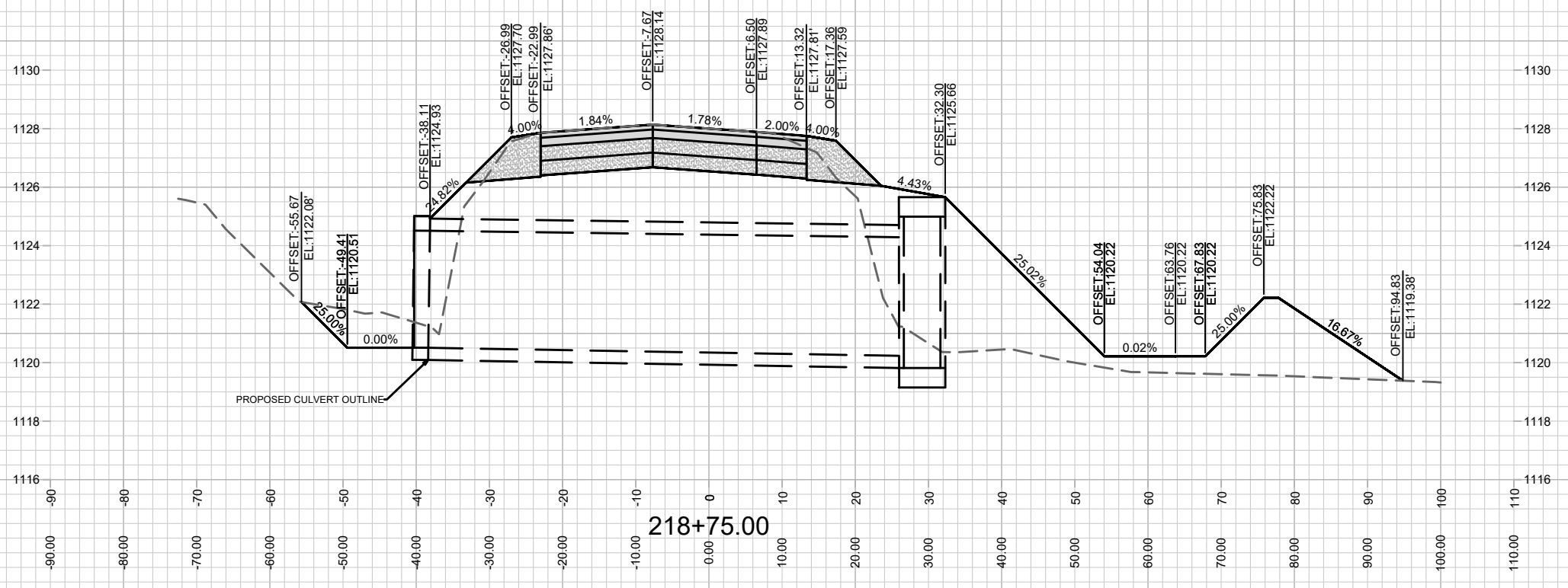
MARK	REVISION	DATE	BY

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MADISON, WI
8517
CONTRACT NO:

MINERAL POINT ROAD X-SECTION
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X-20



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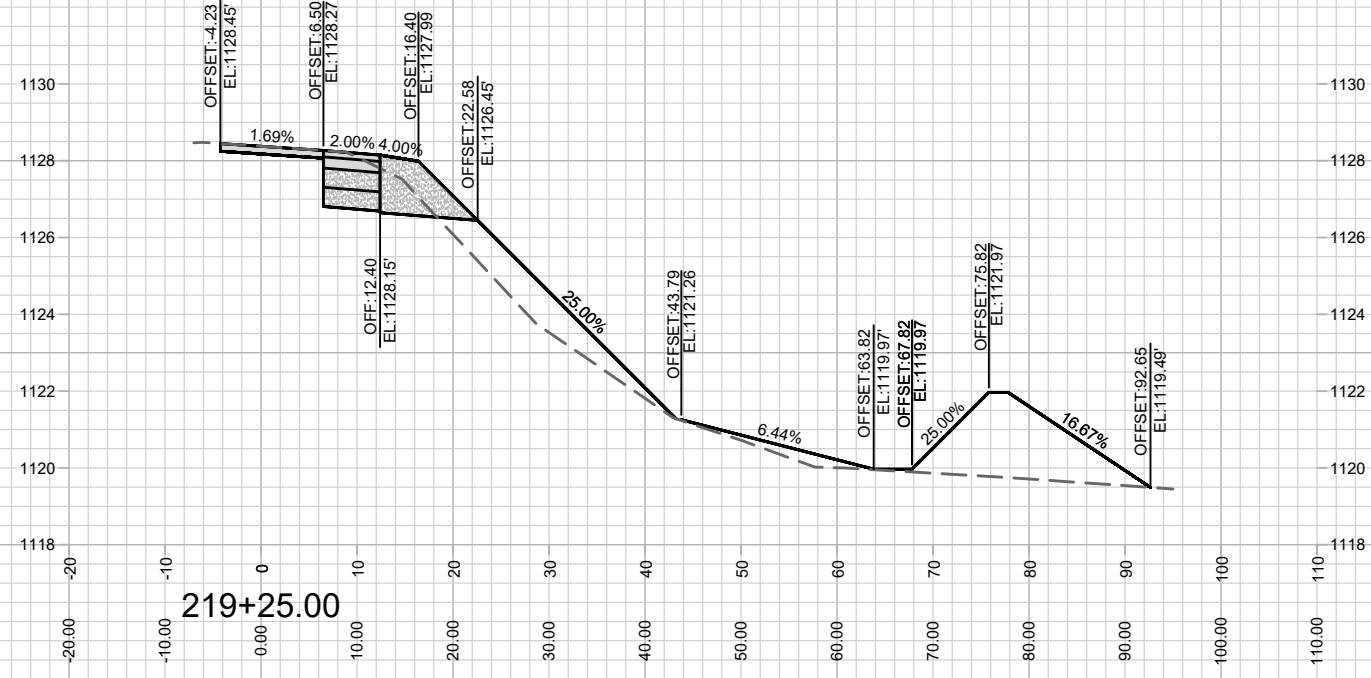
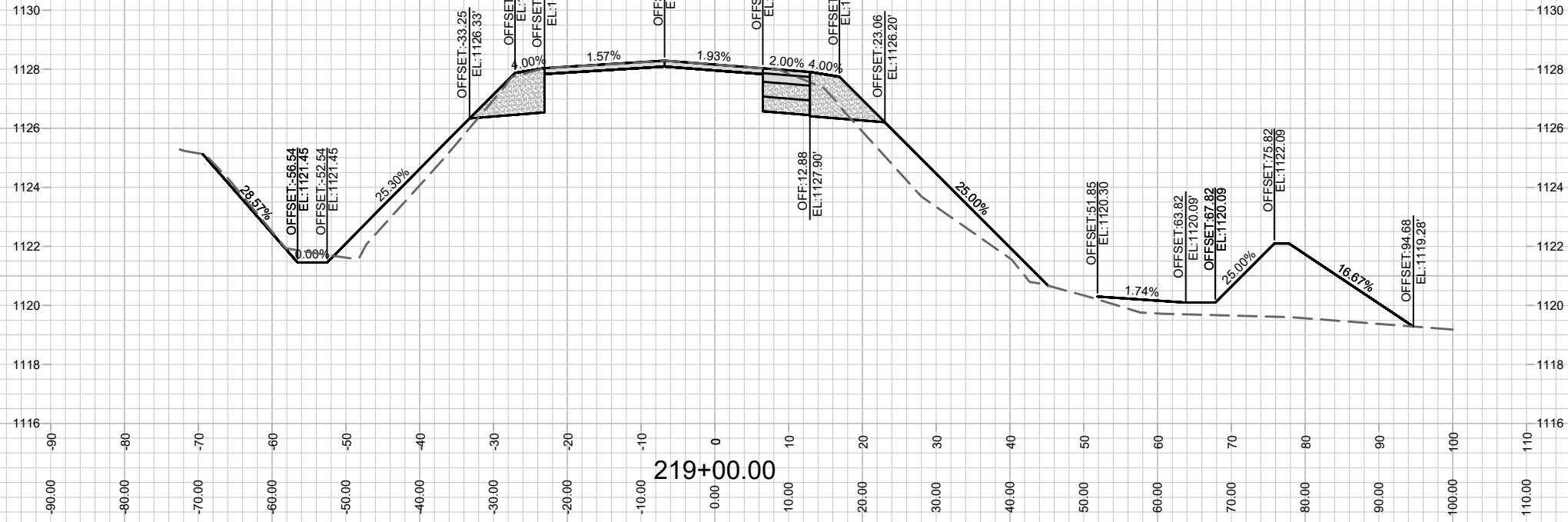
12567
 MADISON, WI
 8517
 CONTRACT NO:

MINERAL POINT ROAD X-SECTION
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12567
 X-21

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 X-21

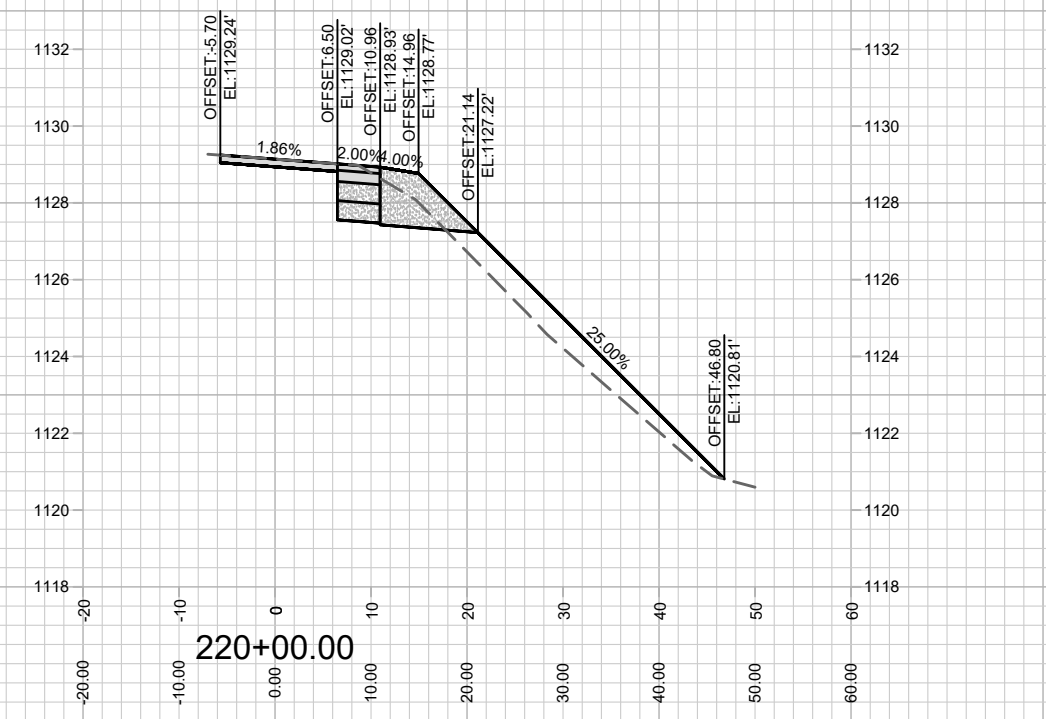
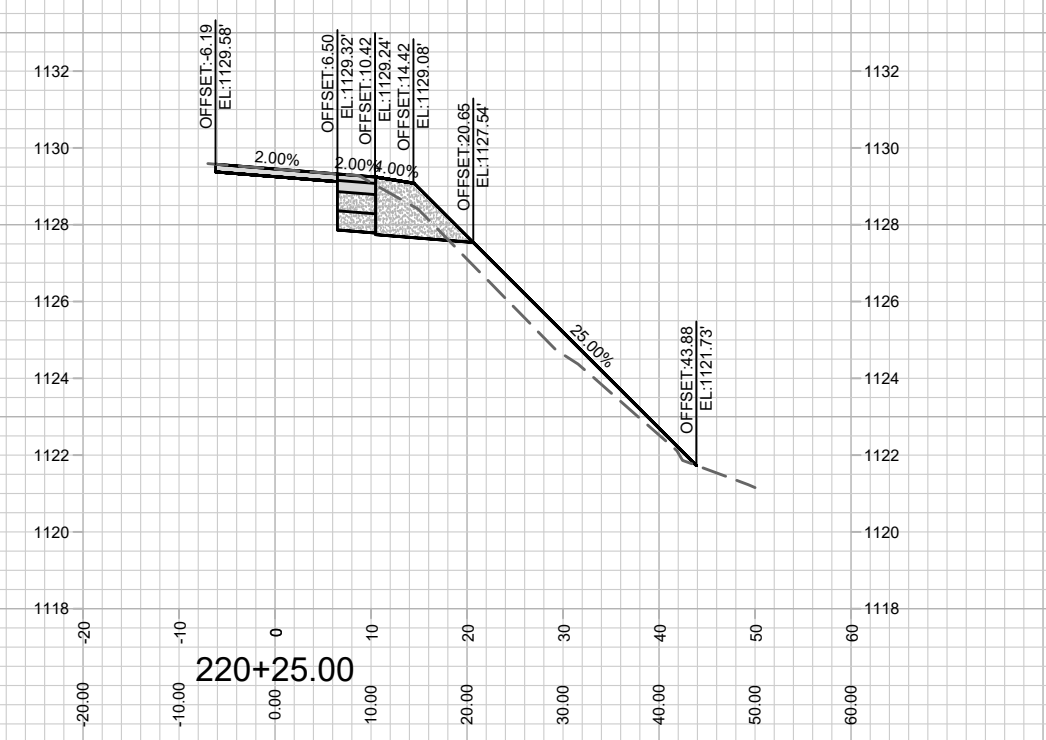
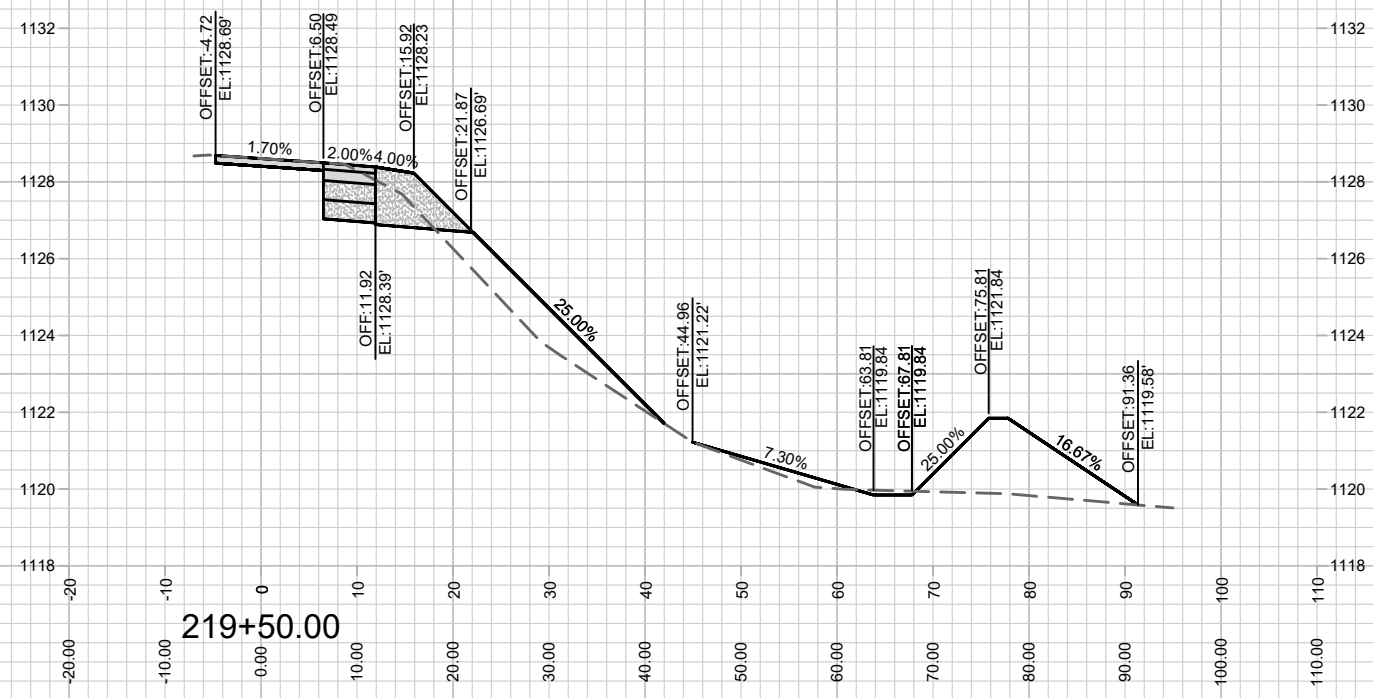
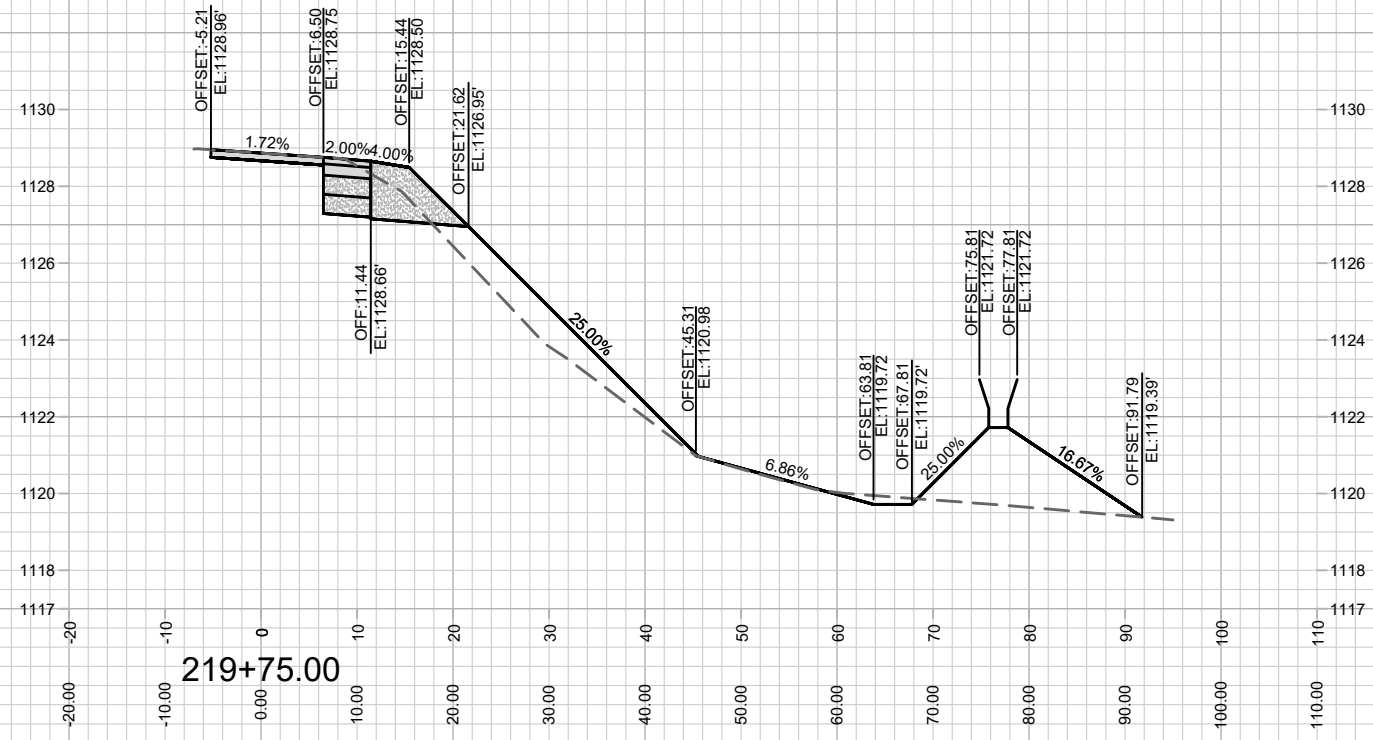


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X-22

MINERAL POINT ROAD X-SECTION
TWO POINTS CROSSING
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12567
MADISON, WI
CONTRACT NO: 8517

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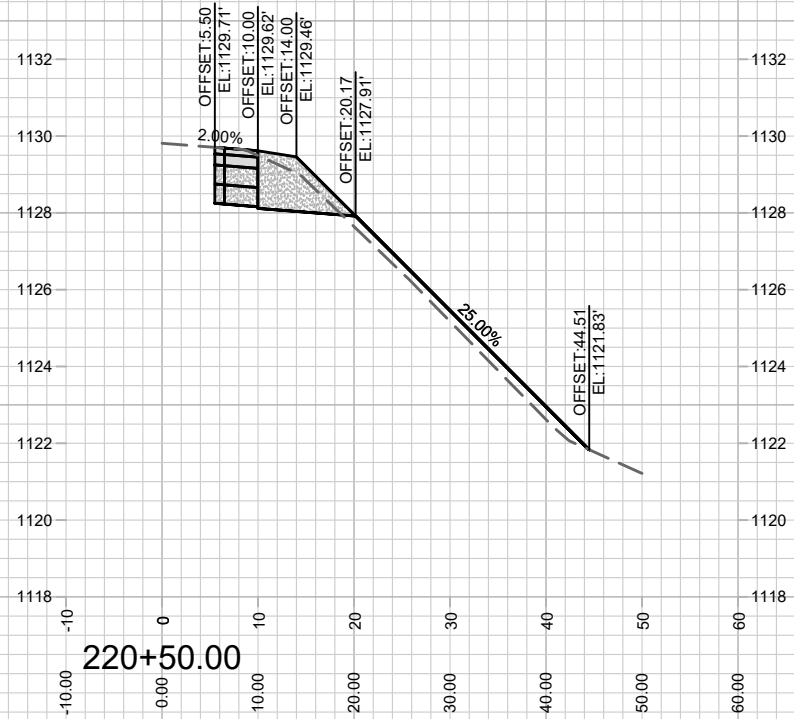
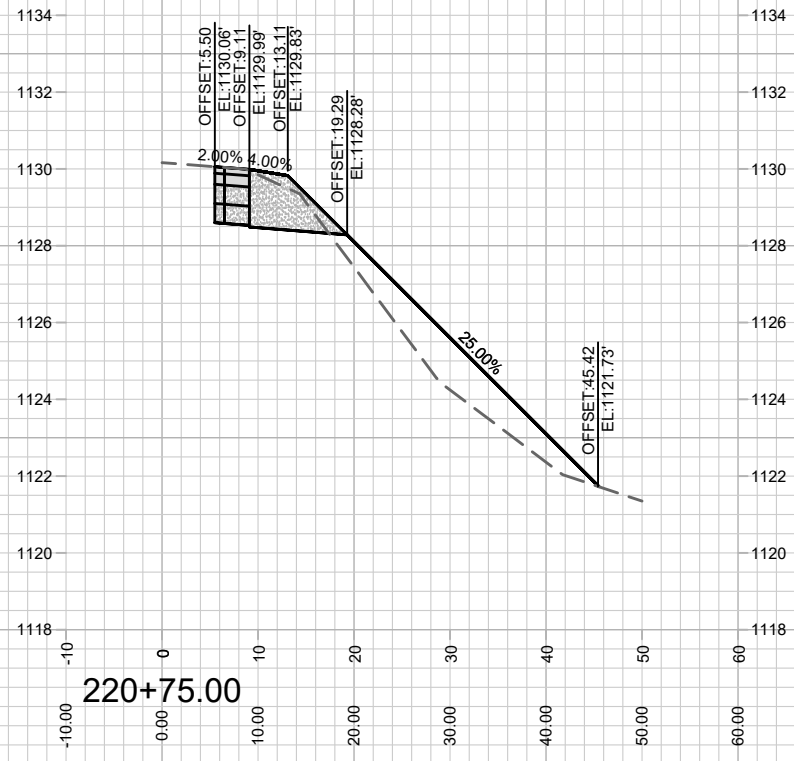
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MINERAL POINT ROAD X-SECTION
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X-23

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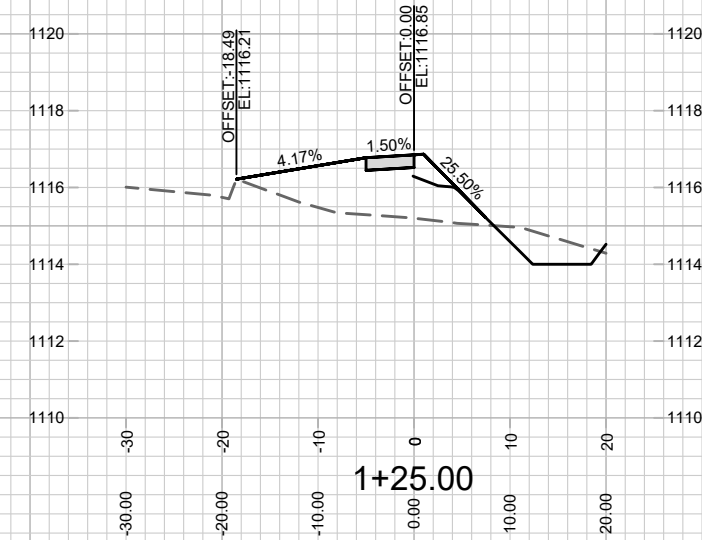
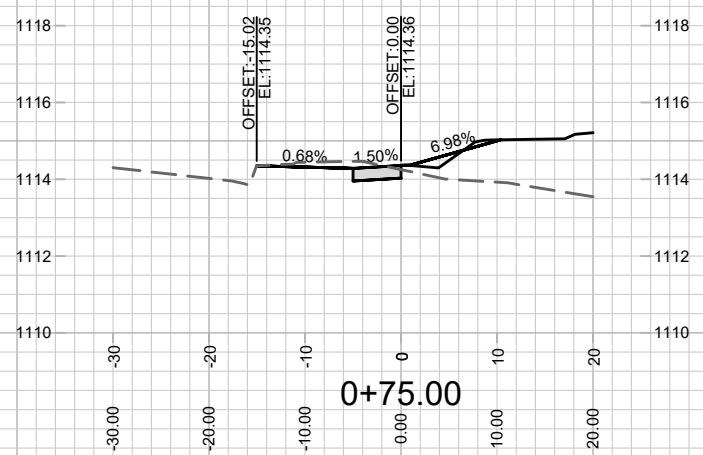
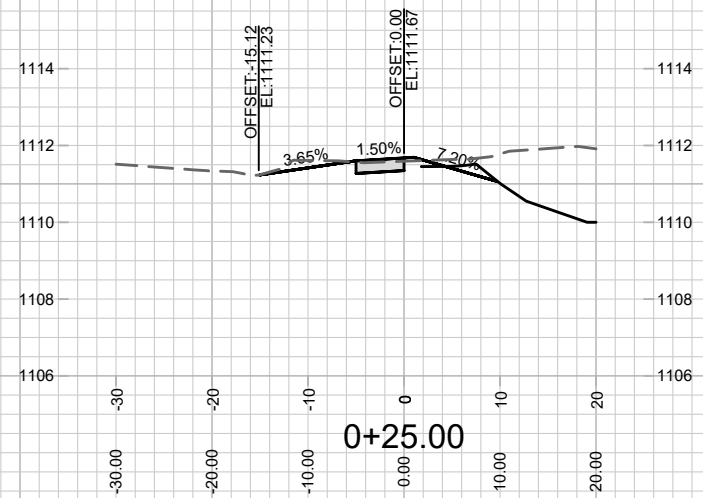
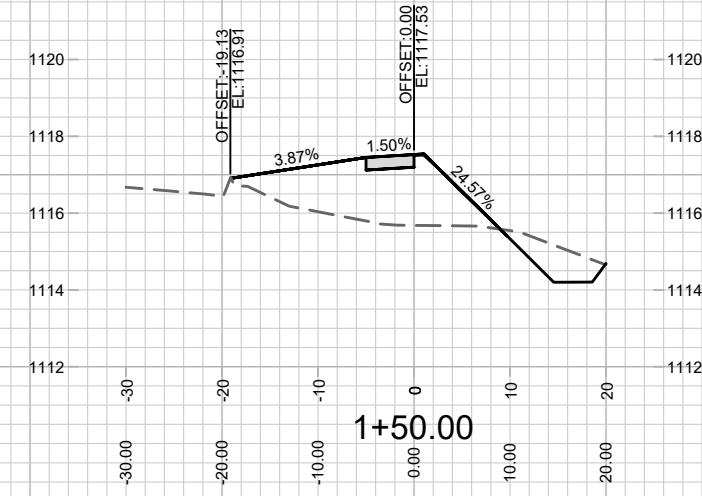
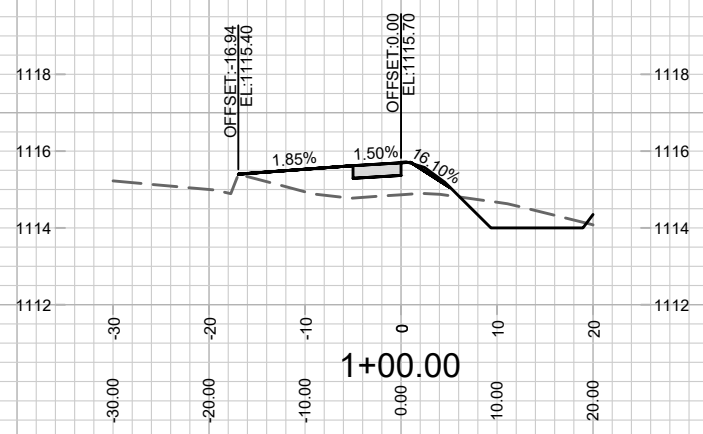
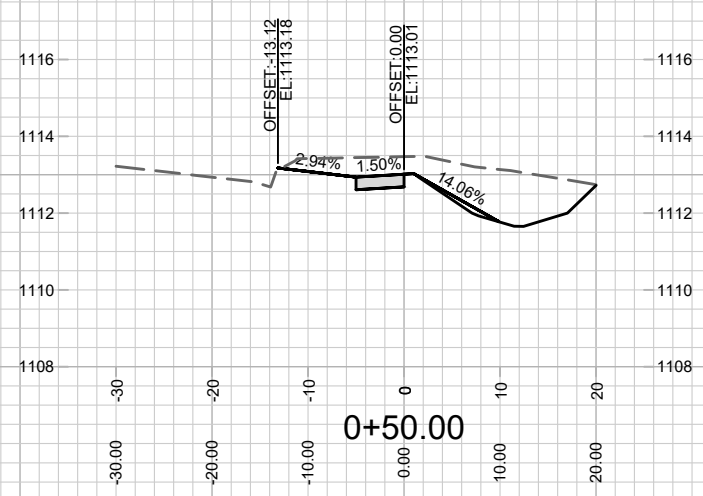
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MADISON, WI
CONTRACT NO: 8517

MINERAL POINT ROAD X-SECTION
TWO POINTS CROSSING
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12567
X-24


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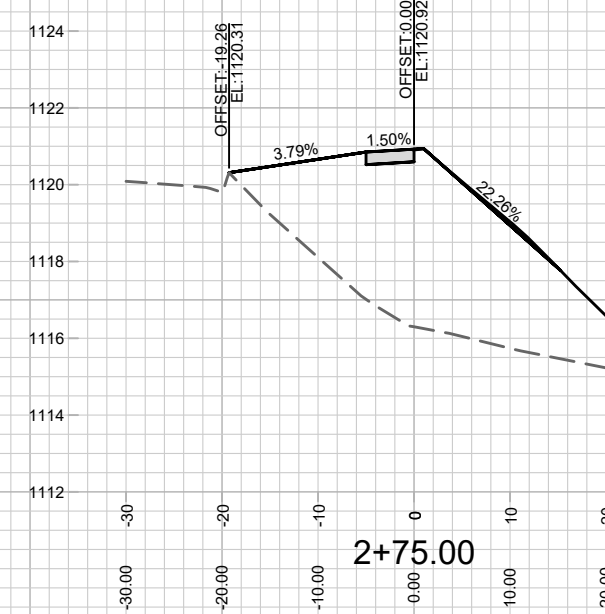
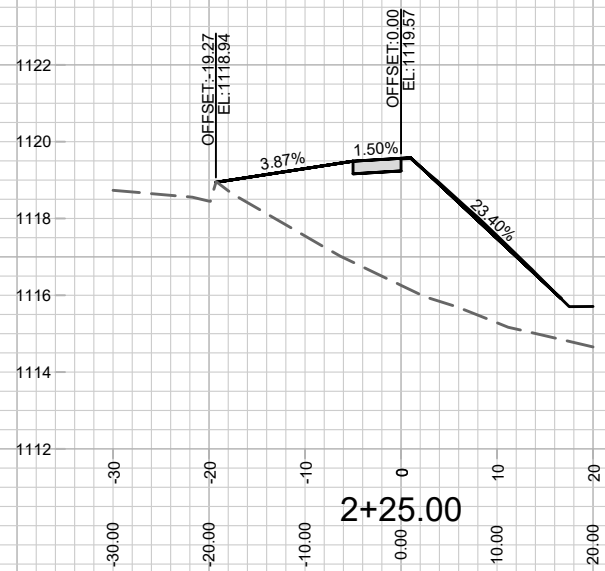
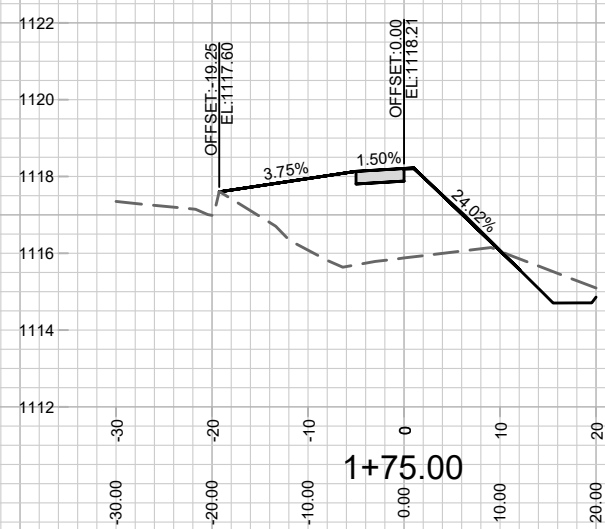
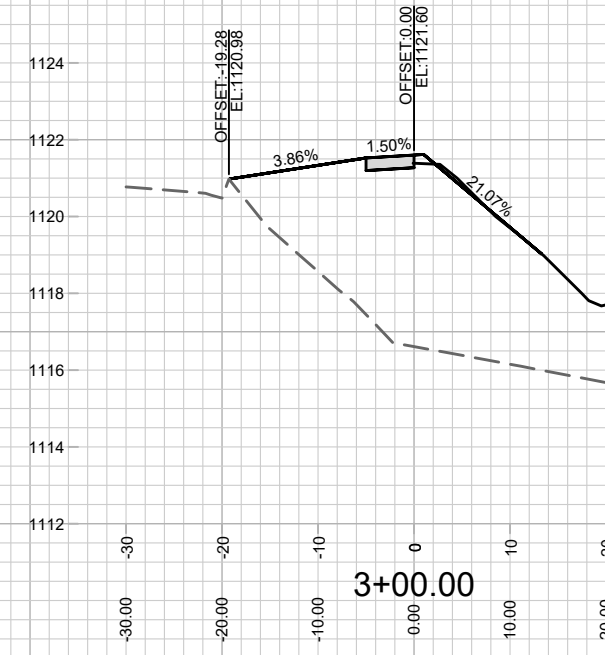
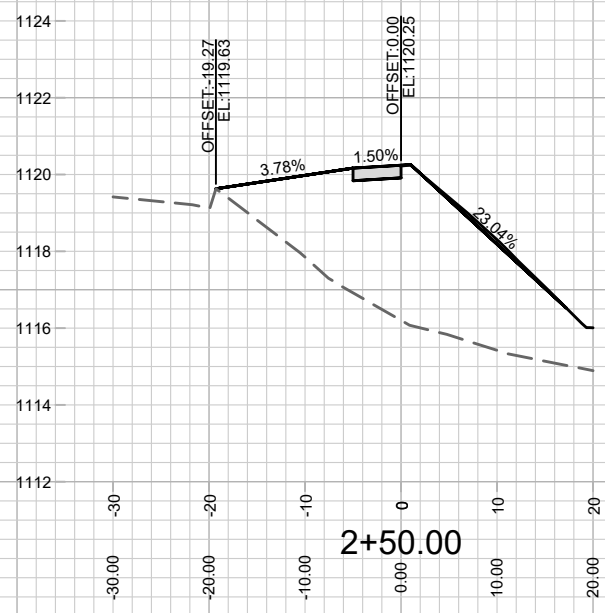
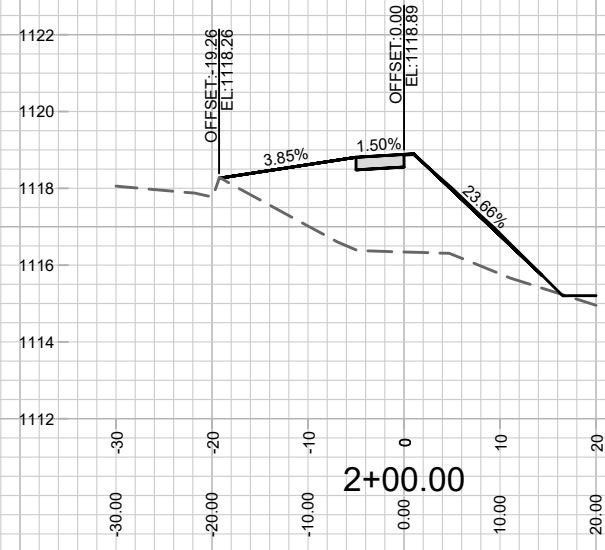
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 MADISON, WI
 8517
 CONTRACT NO:

SOUTH POINT ROAD X-SECTION
 TWO POINTS CROSSING
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12567
 X-25

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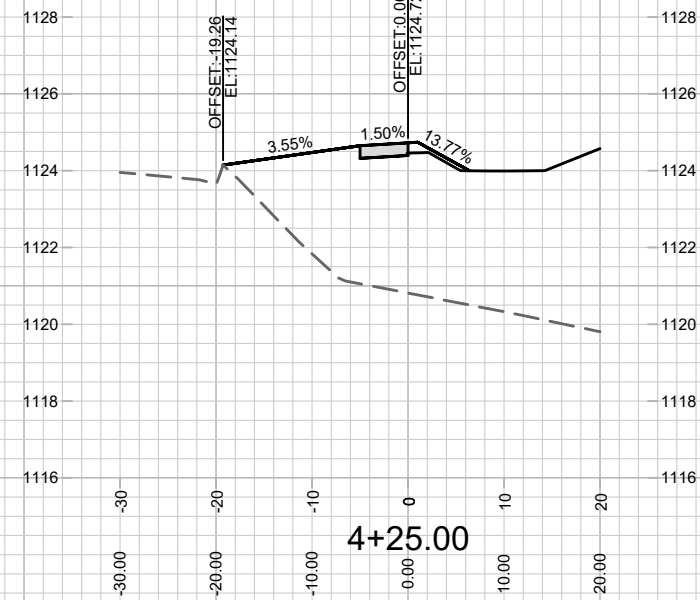
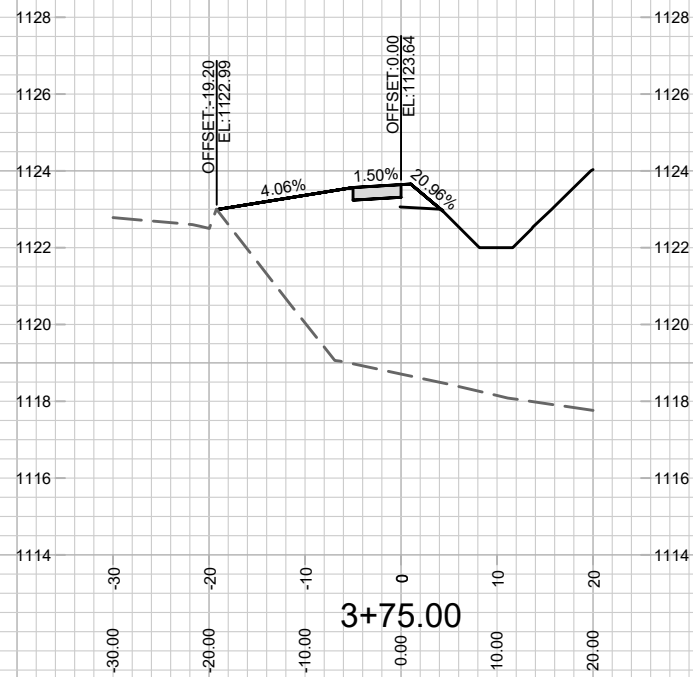
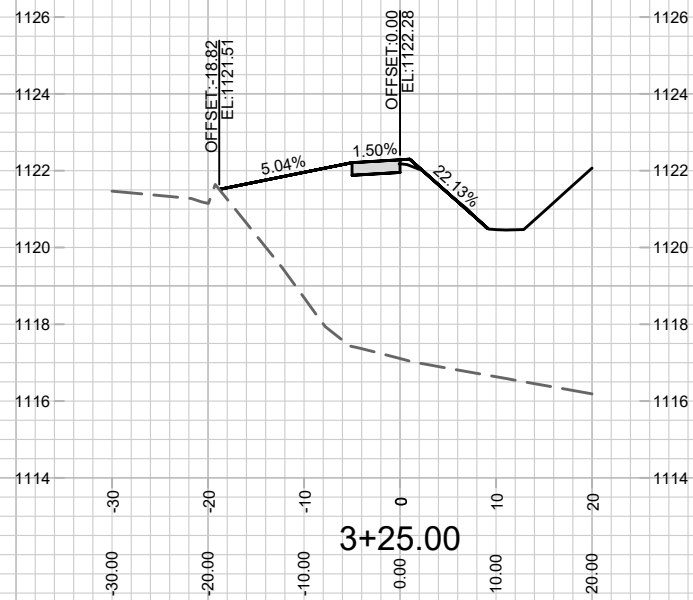
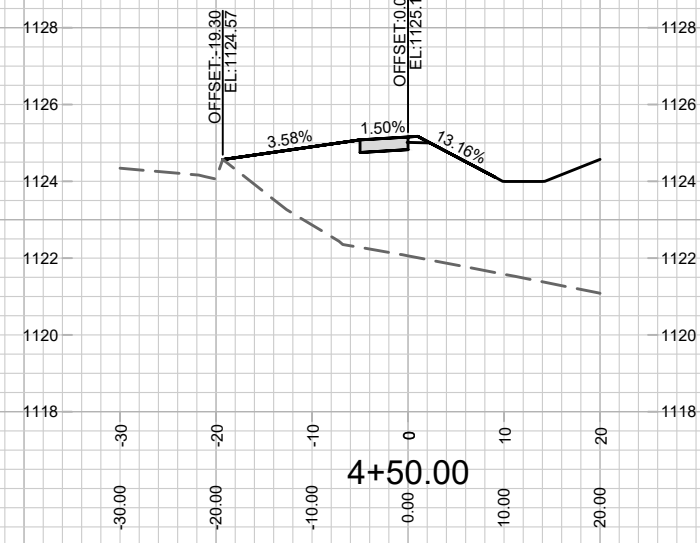
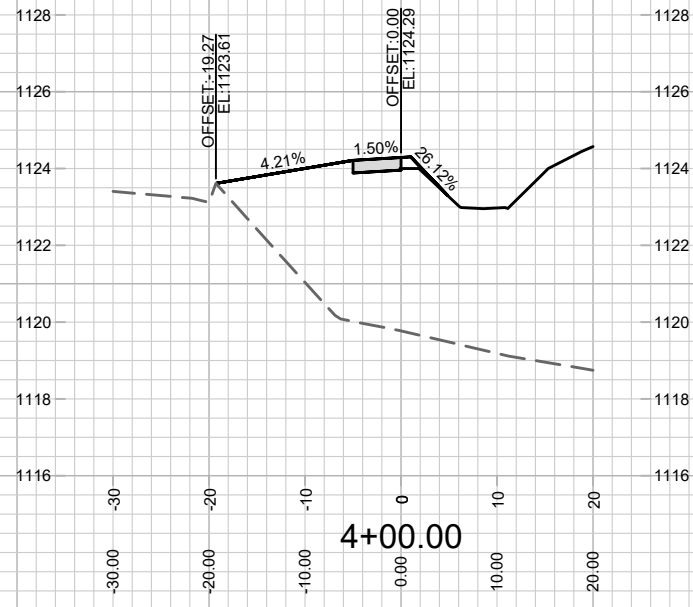
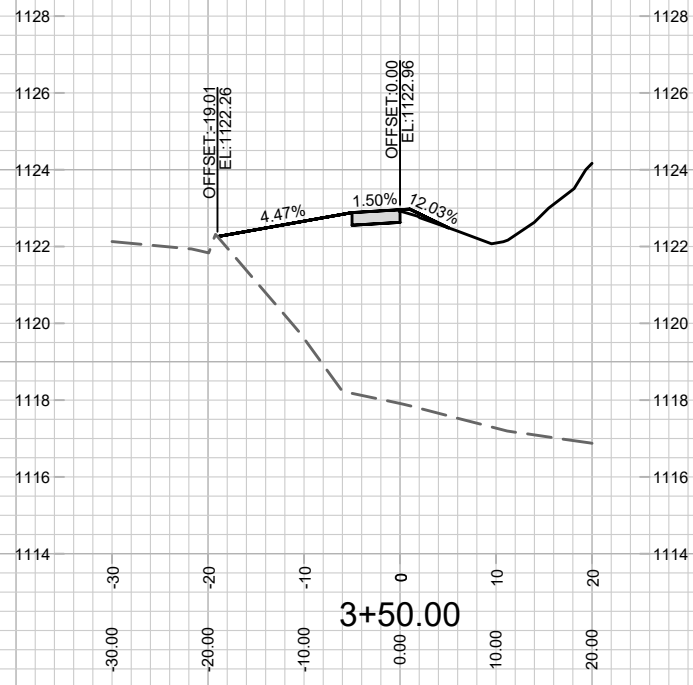
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MADISON, WI
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CONTRACT NO:

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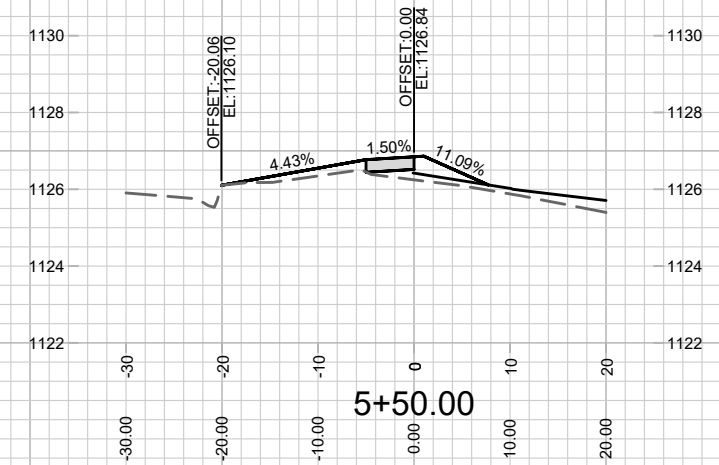
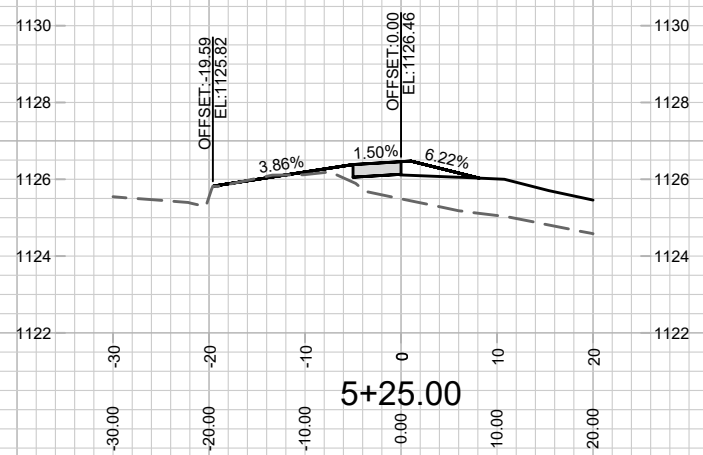
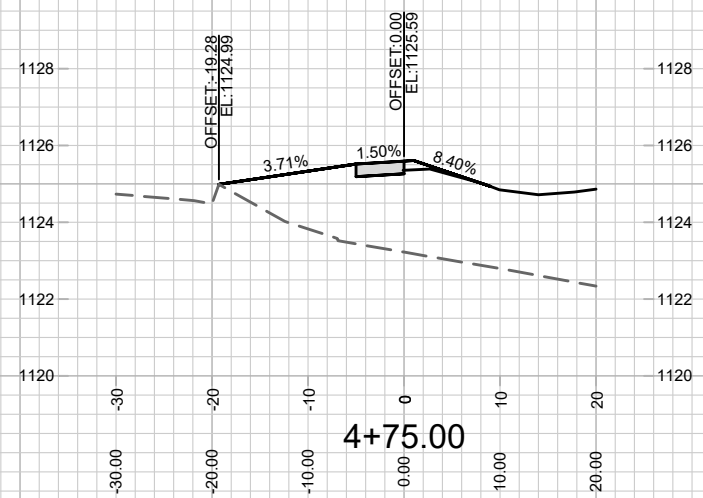
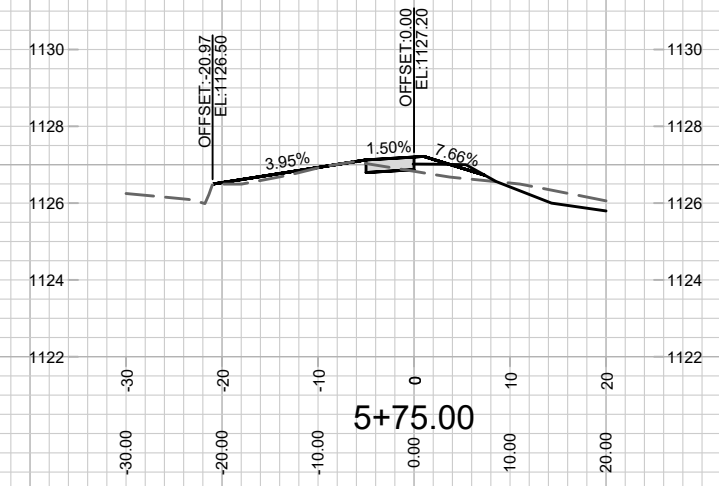
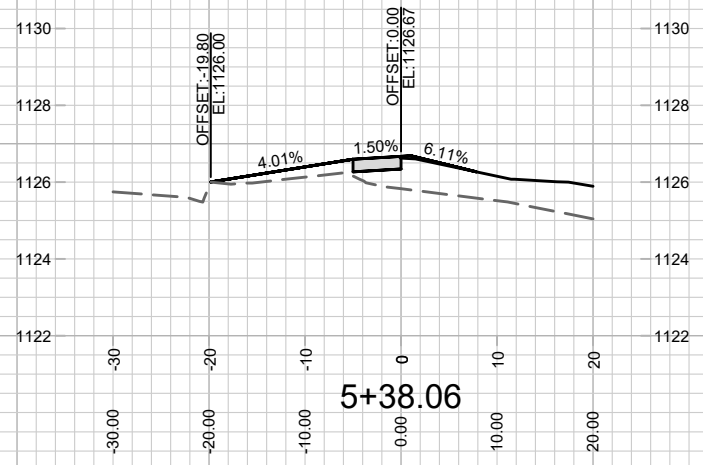
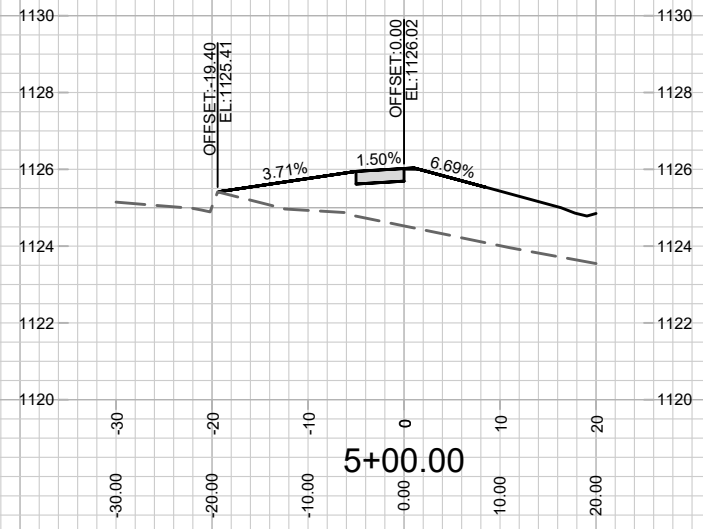
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MADISON, WI
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CONTRACT NO:

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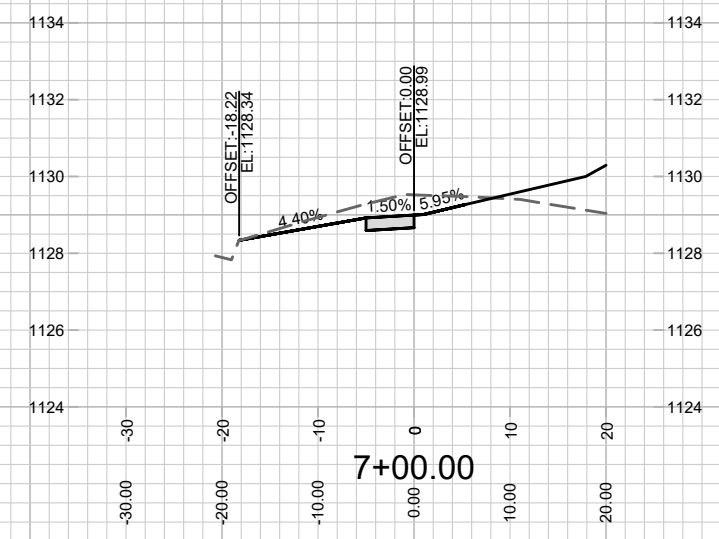
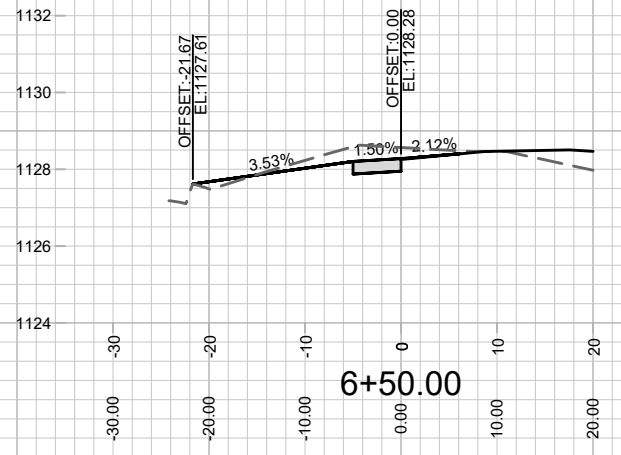
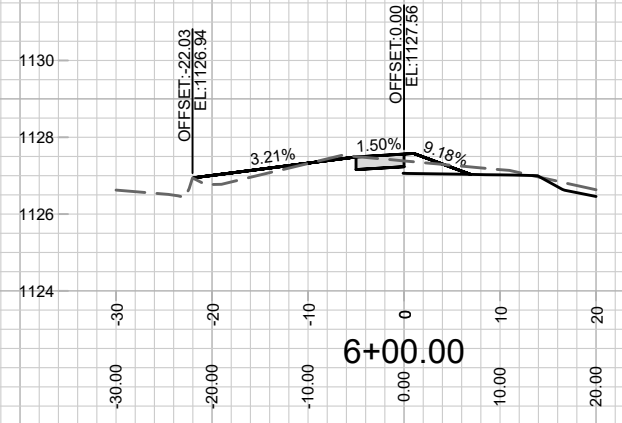
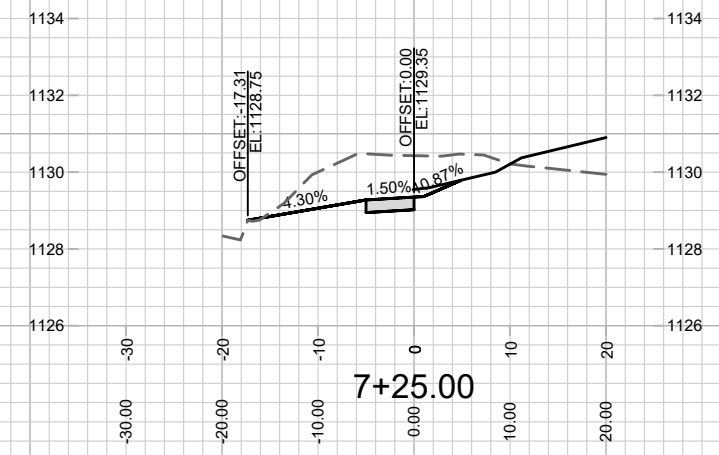
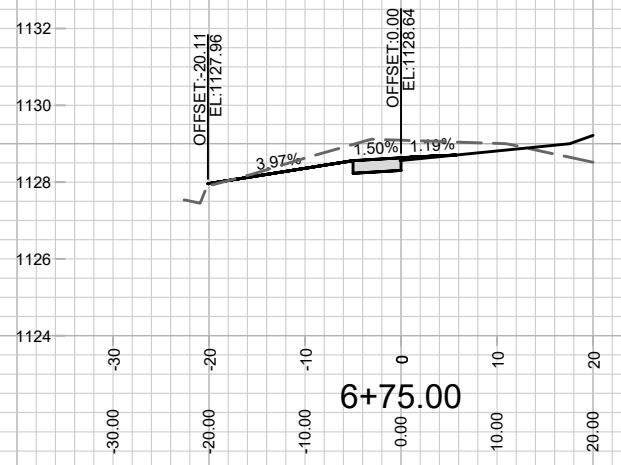
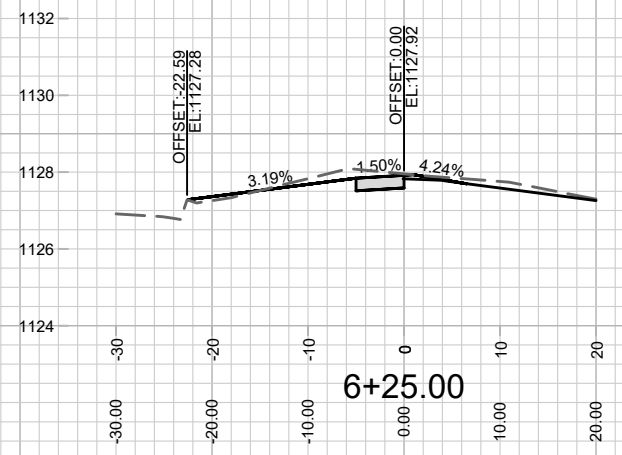
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MADISON, WI
8517
CONTRACT NO:

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X-28



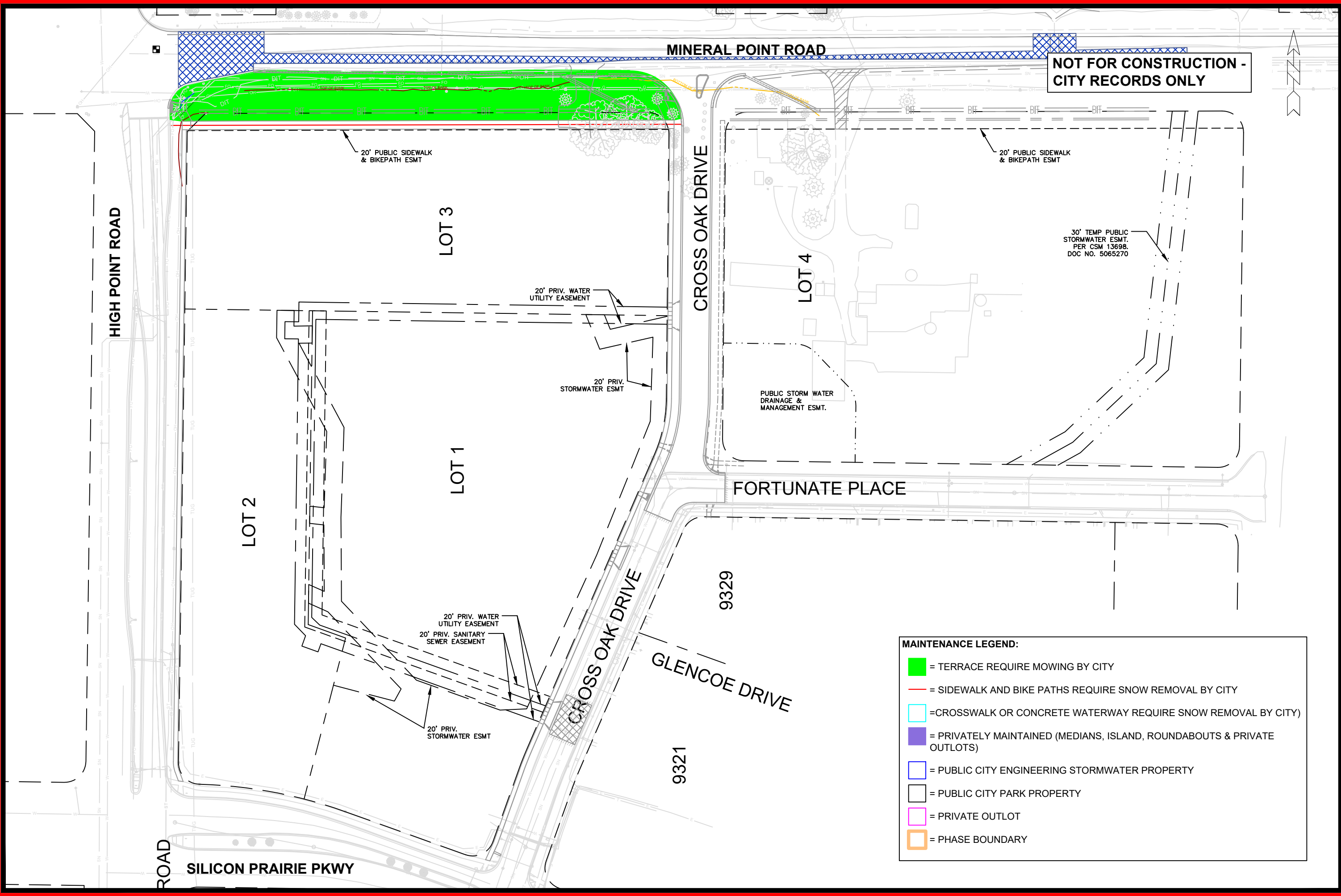
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MADISON, WI
8517
CONTRACT NO:

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TWO POINTS CROSSING
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MAINTENANCE LEGEND:

- = TERRACE REQUIRE MOWING BY CITY
- = SIDEWALK AND BIKE PATHS REQUIRE 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

MAINTENANCE PLAN	12567	MADISON, WI	8517	MN-1
TWO POINTS CROSSING				
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