

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

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ACACIA RIDGE PHASE 11

CITY PROJECT NO. 14928
CONTRACT NO. 9379



PROJECT
LOCATION

REVISION
REV#1 - 8/21/24 - IO

PUBLIC IMPROVEMENT PROJECT
APPROVED

MARCH 5, 2024

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Jul 24, 2024

City Engineer

Date

STREET
DESIGNED BY:



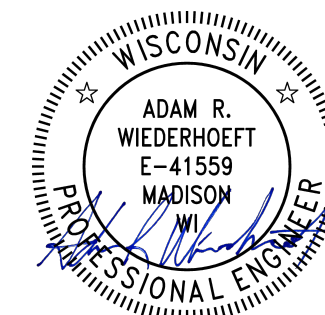
Jul 24, 2024

SANITARY SEWER
DESIGNED BY:



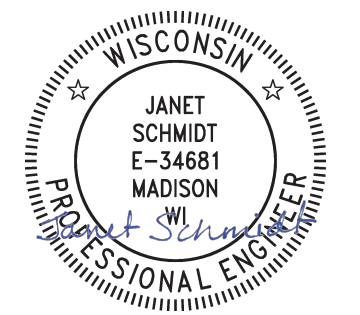
Jul 24, 2024

WATER
DESIGNED BY:



Jul 24, 2024

STORM SEWER
DESIGNED BY:



Jul 24, 2024

FILE NAME: 14928

REV. DATE: 7/22/2024 9:24 AM

ORIGINATOR: CITY OF MADISON

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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 GENTLE FEATHER ROAD, AND LITTLE DOVE TRAIL RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE WATTS ROAD 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.

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 

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DESIGNED BY: IO	14928
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14928
MADISON, WI
9379
CONTRACT NO:

GENERAL NOTES
ACACIA RIDGE PHASE 11
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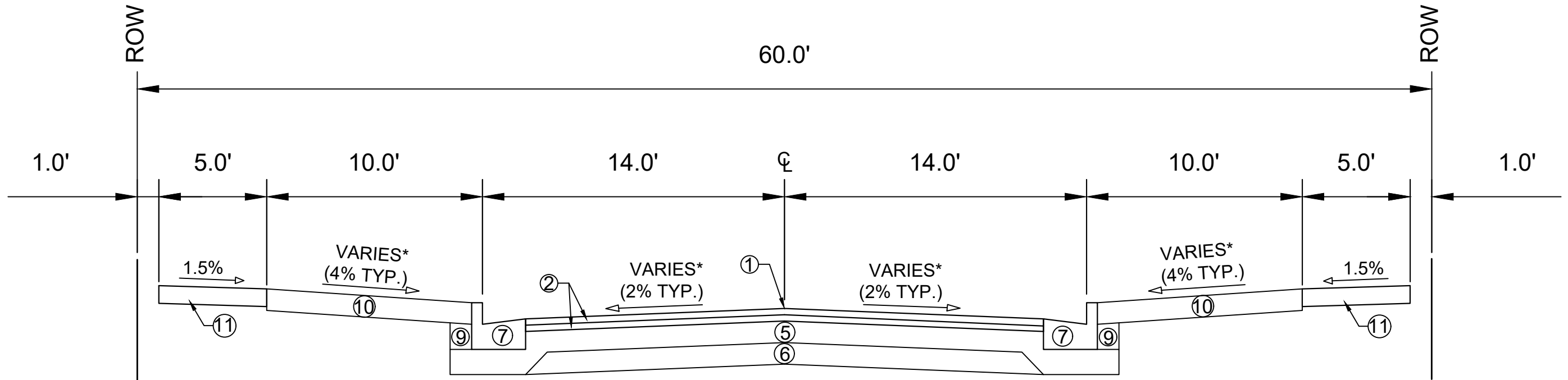
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14928
MADISON, WI
CONTRACT NO: 9379

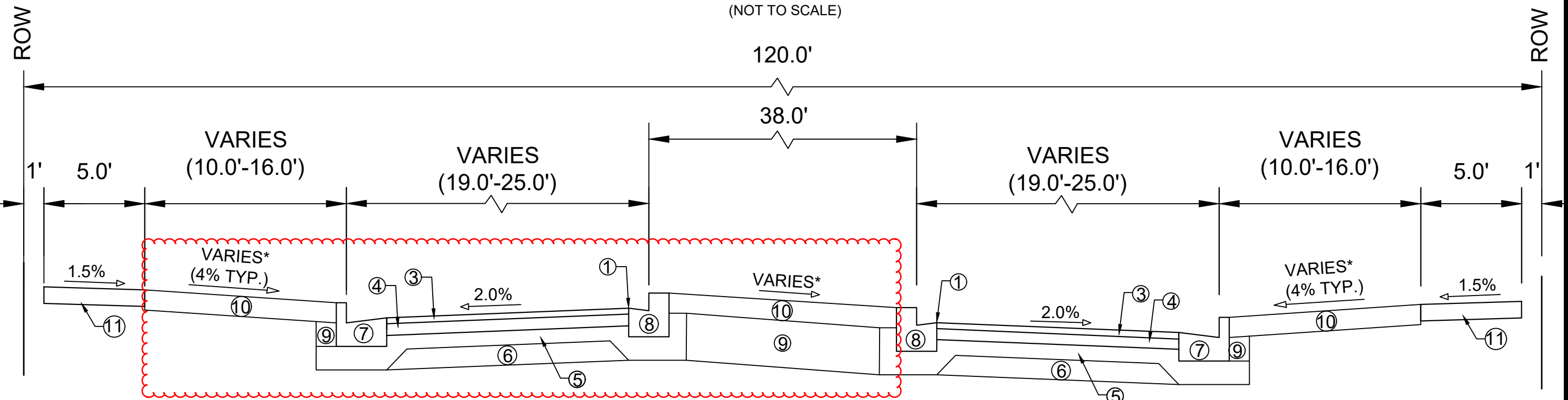
TYPICAL SECTIONS
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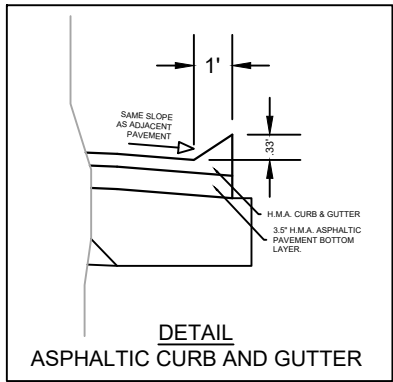
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TYPICAL SECTION
GENTLE FEATHER ROAD
LITTLE DOVE TRAIL
(NOT TO SCALE)



TYPICAL SECTION
WATTS ROAD
(NOT TO SCALE)



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

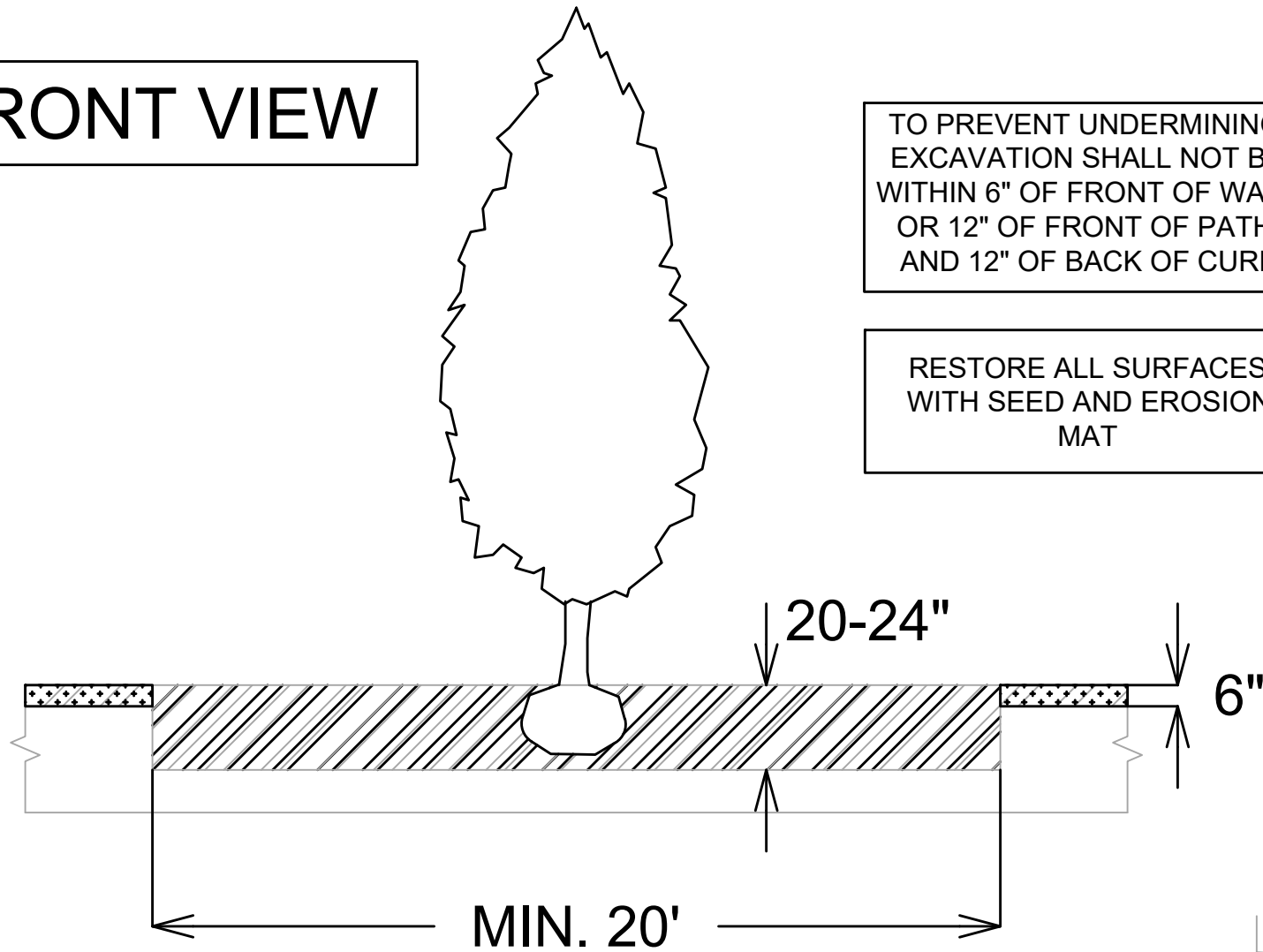
REV#1-8/21/24 - IO
-Watts rd median & WB pavement width revised.

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

TERRACE EXCAVATION FOR TREE PLANTING:

THIS INCLUDES ALL WORK NECESSARY TO EXCAVATE AREAS WITHIN GRASS TERRACES TO AN APPROPRIATE DEPTH SUITABLE FOR NEW TREE PLANTINGS. ALL WORK SHALL BE IN ACCORDANCE WITH ARTICLE 201 OF THE STANDARD SPECIFICATIONS. THE PROPOSED LOCATIONS FOR TREE PLANTINGS ARE IDENTIFIED ON THE LANDSCAPING PLAN INCLUDED WITHIN THIS PLAN SET. PRIOR TO THE CONTRACTOR STARTING THE EXCAVATION WORK, THE ENGINEER AND FORESTRY REPRESENTATIVE SHALL REVIEW THE PLAN LOCATIONS ON-SITE AND CONFIRM THAT NO CONFLICTS ARE ANTICIPATED. ONCE THE LOCATIONS MARKED, THE CONTRACTOR SHALL EXCAVATE THE TERRACE AREA TO A SUITABLE DEPTH FOR NEW TREE PLANTINGS, APPROXIMATELY TWENTY (20) INCHES TO TWENTY-FOUR (24) INCHES. THE TERRACE SHALL BE EXCAVATED TO A MINIMUM LENGTH OF TWENTY (20) FEET, BUT THAT MAY BE REDUCED BY THE CONSTRUCTION ENGINEER TO FIT SITE CONSTRAINTS AS NECESSARY. THE WIDTH OF THE TERRACE SHALL ALSO BE EXCAVATED TO AS CLOSE TO THE SIDEWALK/PATH AND CURB AS IS REASONABLE. WHILE PERFORMING THE EXCAVATION, THE CONTRACTOR SHALL TAKE CARE TO NOT UNDERMINE OR DAMAGE THE ADJACENT CURB OR SIDEWALK. IF DAMAGED DURING THE EXCAVATION PROCESS, THE DEVELOPER SHALL REPLACE CURB OR SIDEWALK/PATH AT THEIR COST. ONCE THE AREA IS EXCAVATED, THE CONTRACTOR SHALL BACKFILL THE EXCAVATED AREA WITH REGULAR TOPSOIL, AND THE SURFACE SHALL BE RESTORED WITH SEED AND EROSION MAT.

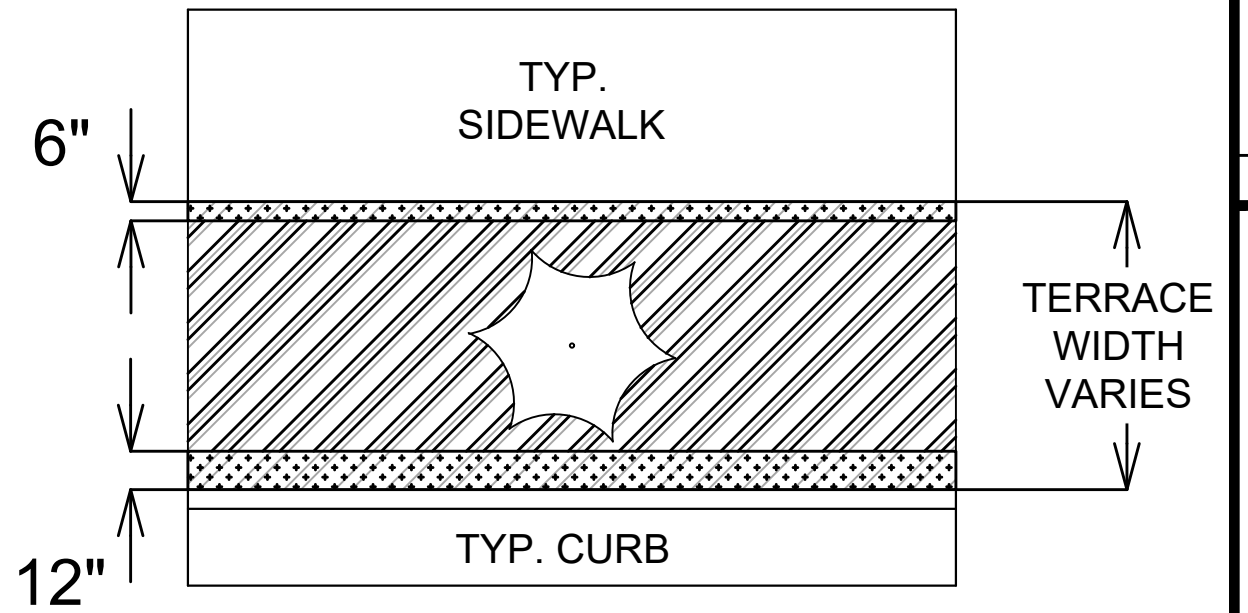
FRONT VIEW



TO PREVENT UNDERMINING, EXCAVATION SHALL NOT BE WITHIN 6" OF FRONT OF WALK OR 12" OF FRONT OF PATH, AND 12" OF BACK OF CURB

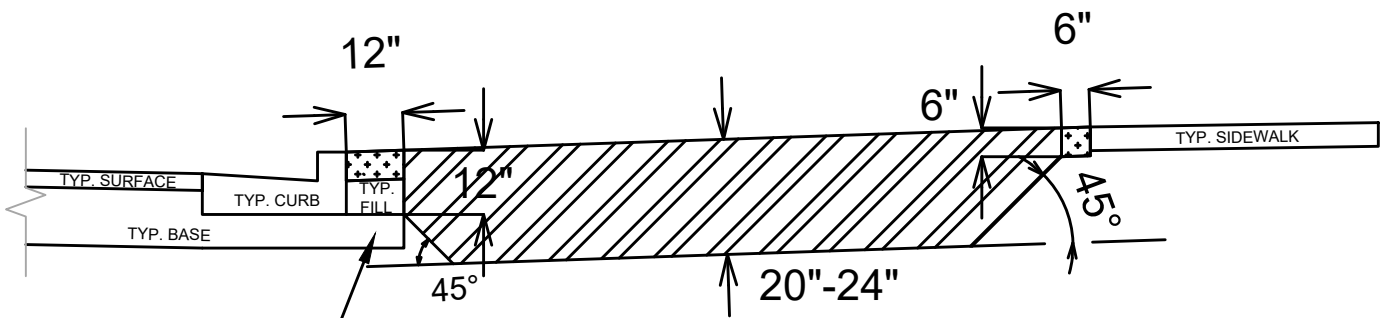
RESTORE ALL SURFACES WITH SEED AND EROSION MAT

TOP VIEW



LEGEND

- AREA TO BE EXCAVATED 20-24" DEEP AND BACKFILLED WITH TOPSOIL
- AREA TO BE 6" TOPSOIL



SECTION VIEW

SPECIAL NOTES:

REFER TO S.D.D. 2.01 FOR STANDARD PLANTING TECHNIQUE FOR TREES IN TURF AREAS.

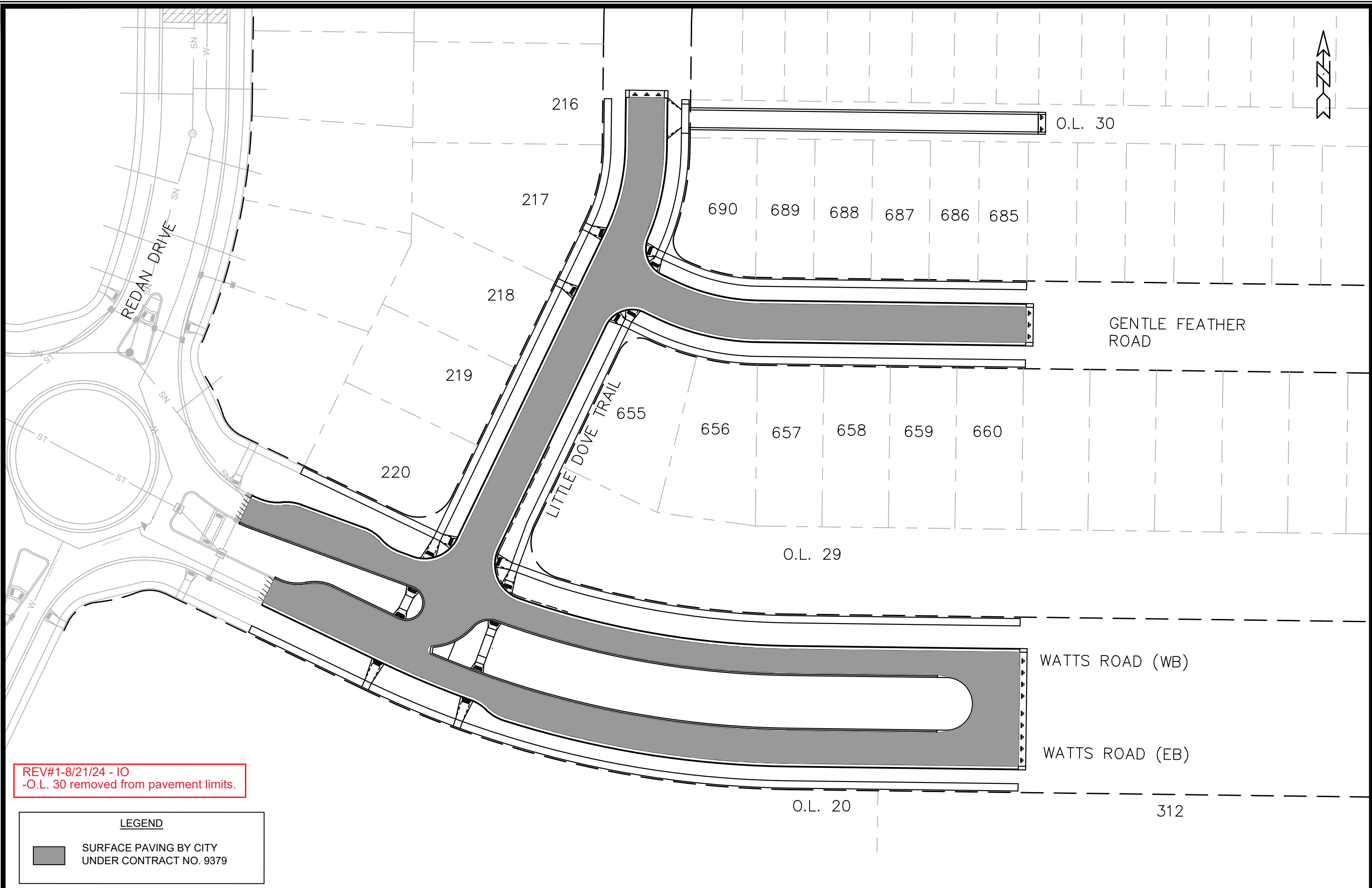
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14928
MADISON, WI
9379
CONTRACT NO.:

TERRACE EXCAVATION DETAIL
ACACIA RIDGE PHASE 11
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REV#1-8/21/24 - IO
 -O.L. 30 removed from pavement limits.

LEGEND

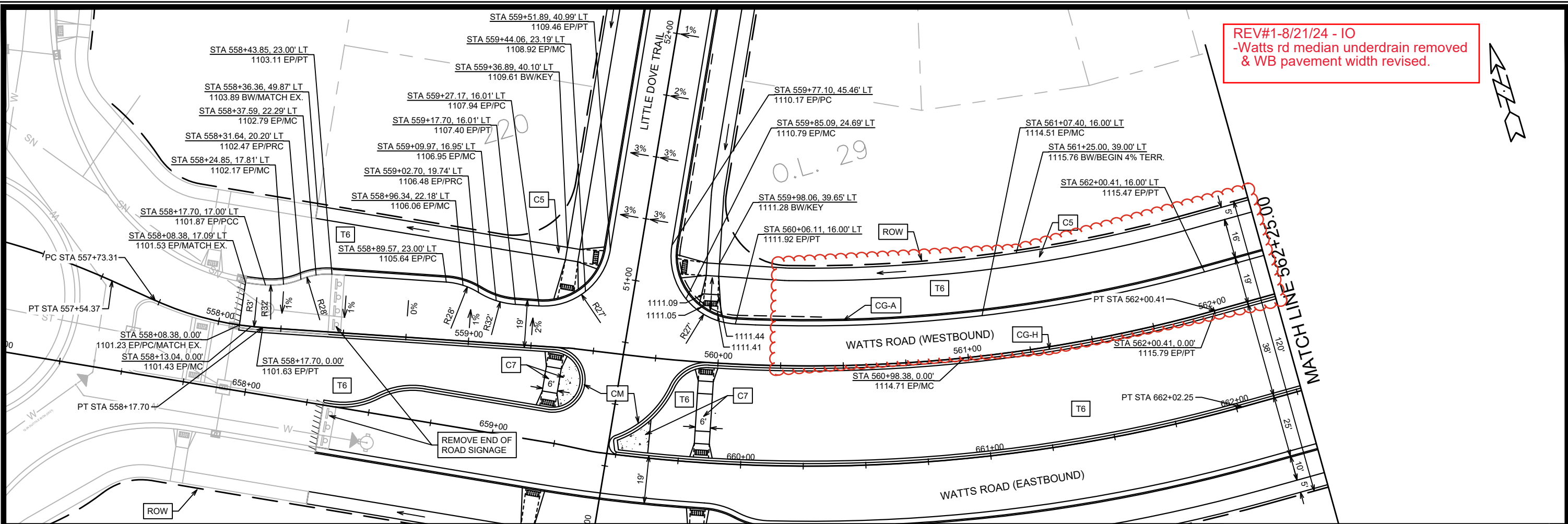
 SURFACE PAVING BY CITY
 UNDER CONTRACT NO. 9379

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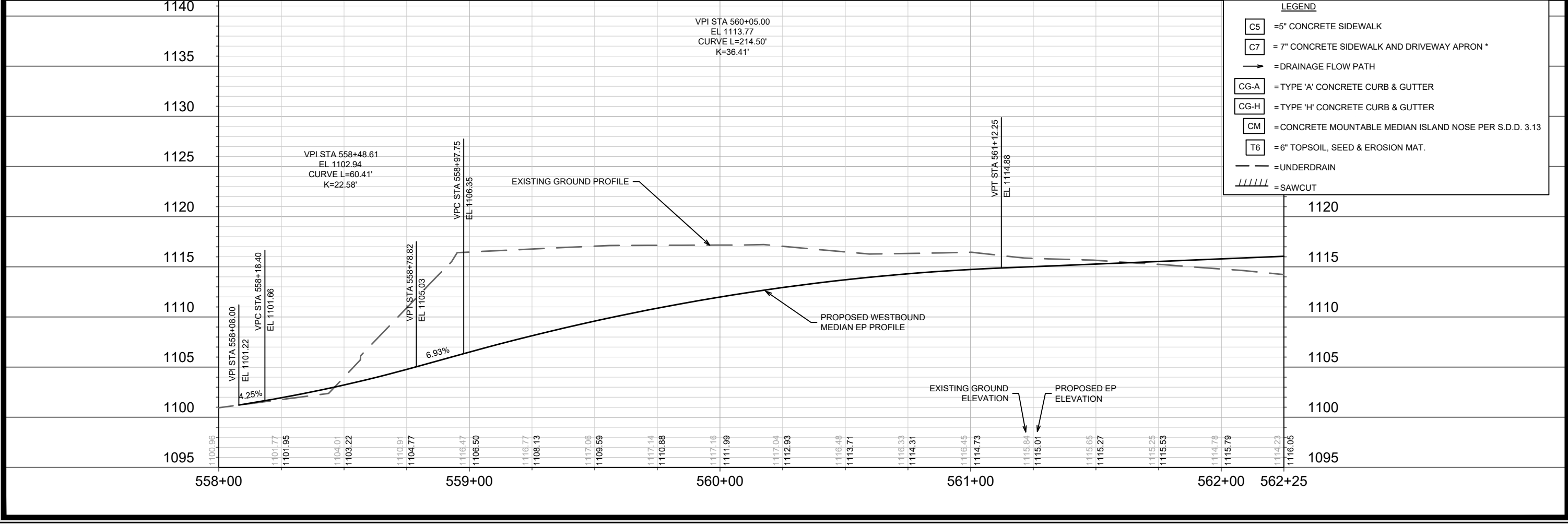
PROJECT OVERVIEW
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 ACACIA RIDGE PHASE 11
 MADISON, WI
 CONTRACT NO: 9379
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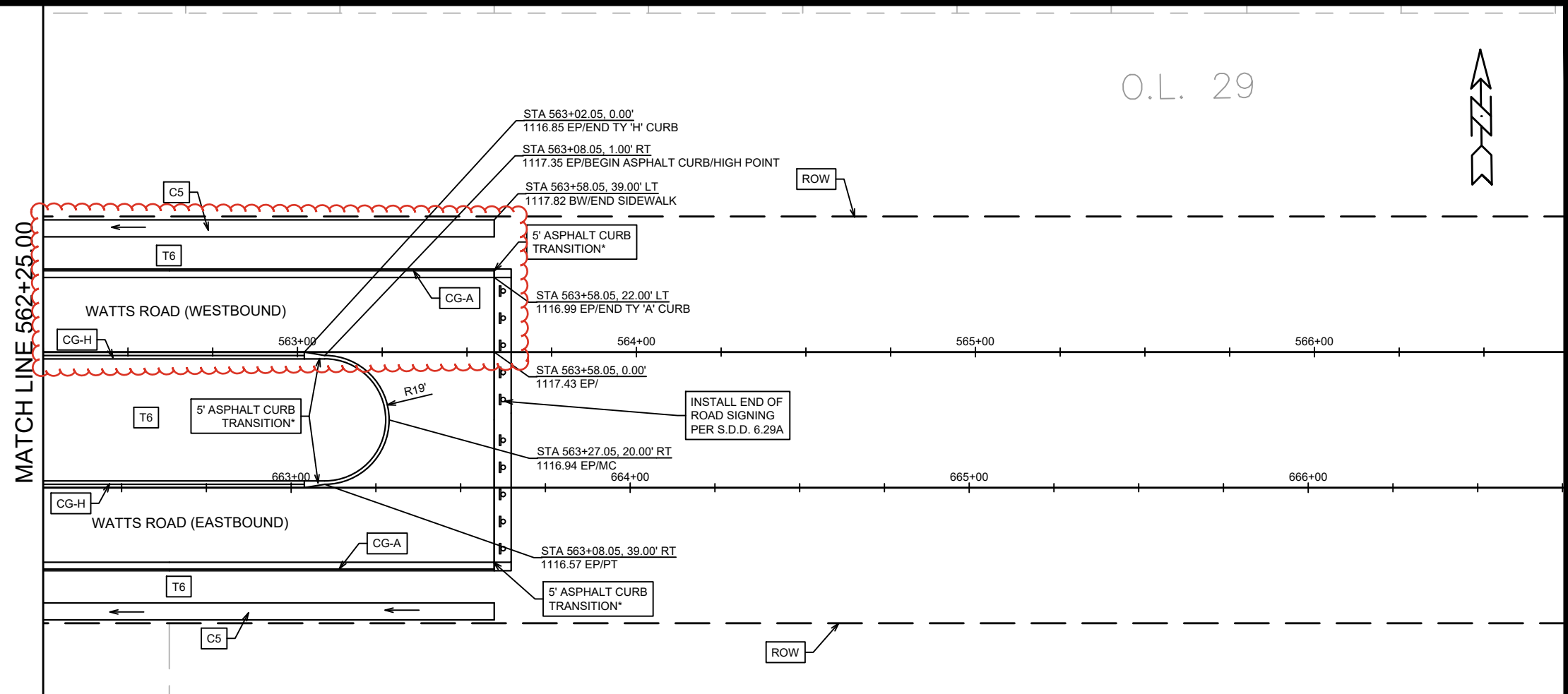
REV#1-8/21/24 - IO
 -Watts rd median underdrain removed
 & WB pavement width revised.



REV#	DATE	BY
WATTS MEDIAN ALTERED	8/14/24	
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14928 MADISON, WI 9379 CONTRACT NO:		
STREET PLAN & PROFILE - WATTS ROAD (WESTBOUND) ACACIA RIDGE PHASE 11		
14928 P-1		

REV#1-8/21/24 - IO
 -Watts rd WB pavement width revised.

O.L. 29

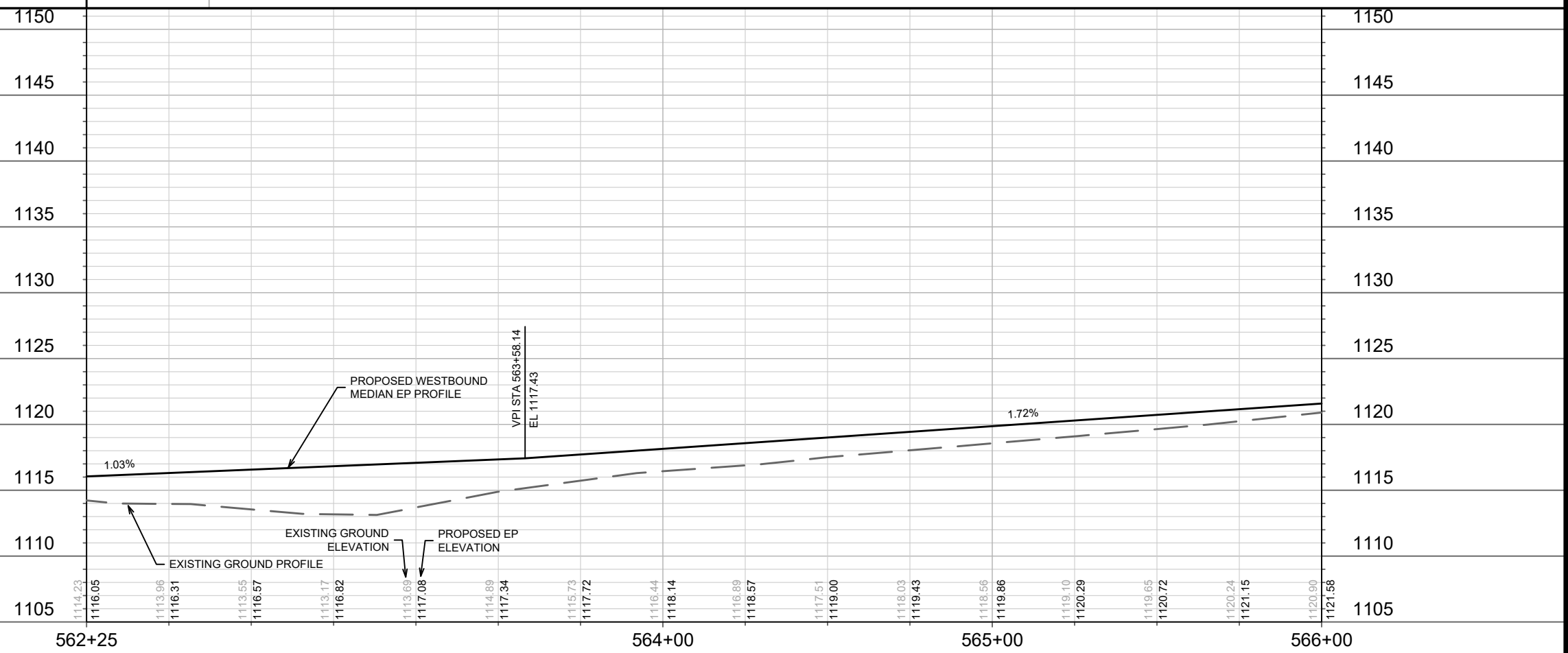


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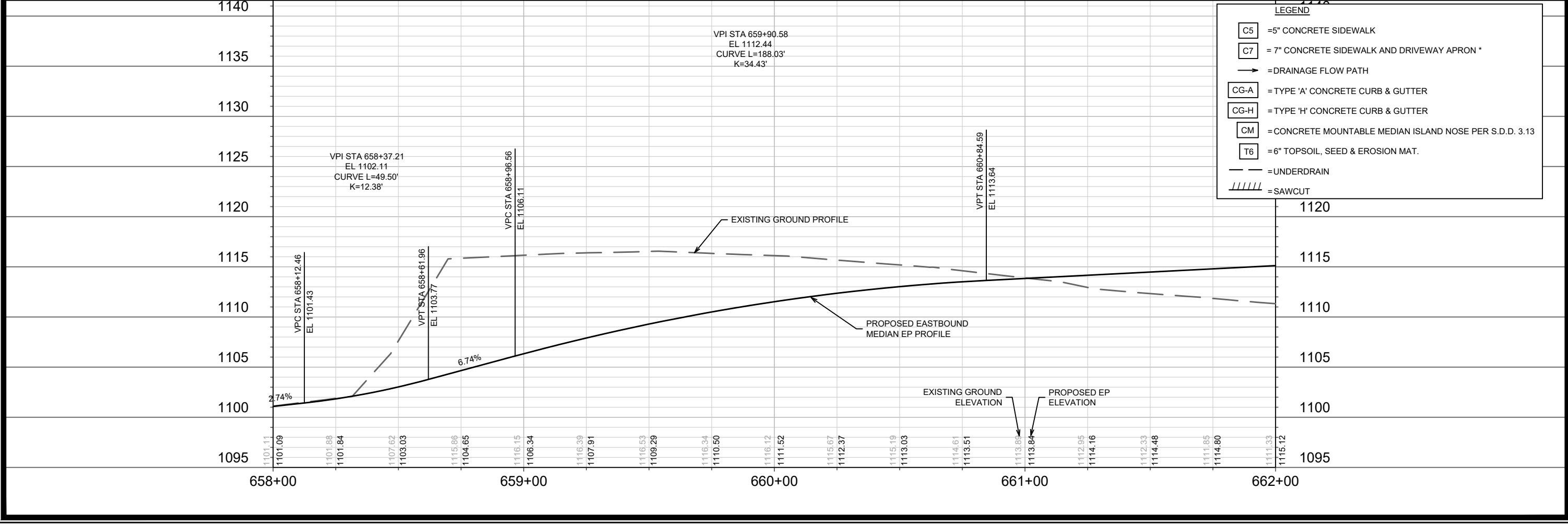
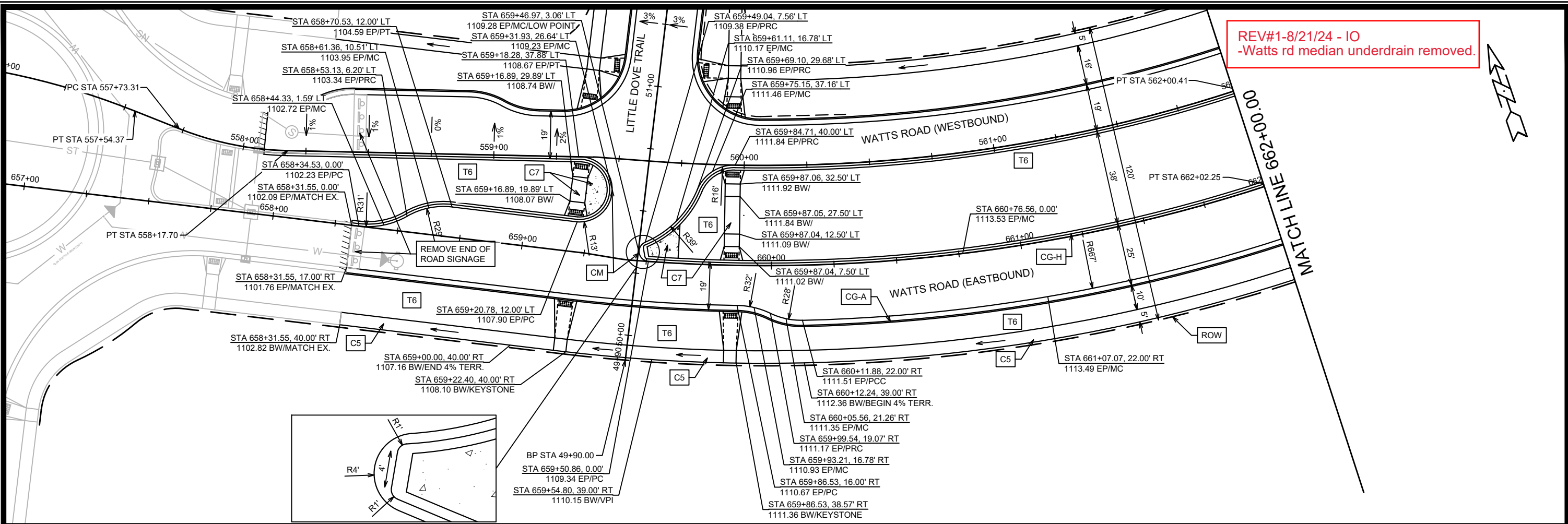
- C5 = 5" CONCRETE SIDEWALK
- C7 = 7" CONCRETE SIDEWALK AND DRIVEWAY APRON *
- = DRAINAGE FLOW PATH
- CG-A = TYPE 'A' CONCRETE CURB & GUTTER
- CG-H = TYPE 'H' CONCRETE CURB & GUTTER
- CM = CONCRETE MOUNTABLE MEDIAN ISLAND NOSE PER S.D.D. 3.13
- T6 = 6" TOPSOIL, SEED & EROSION MAT.
- = UNDERDRAIN
- //// = SAWCUT

SPECIAL NOTES

* CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.



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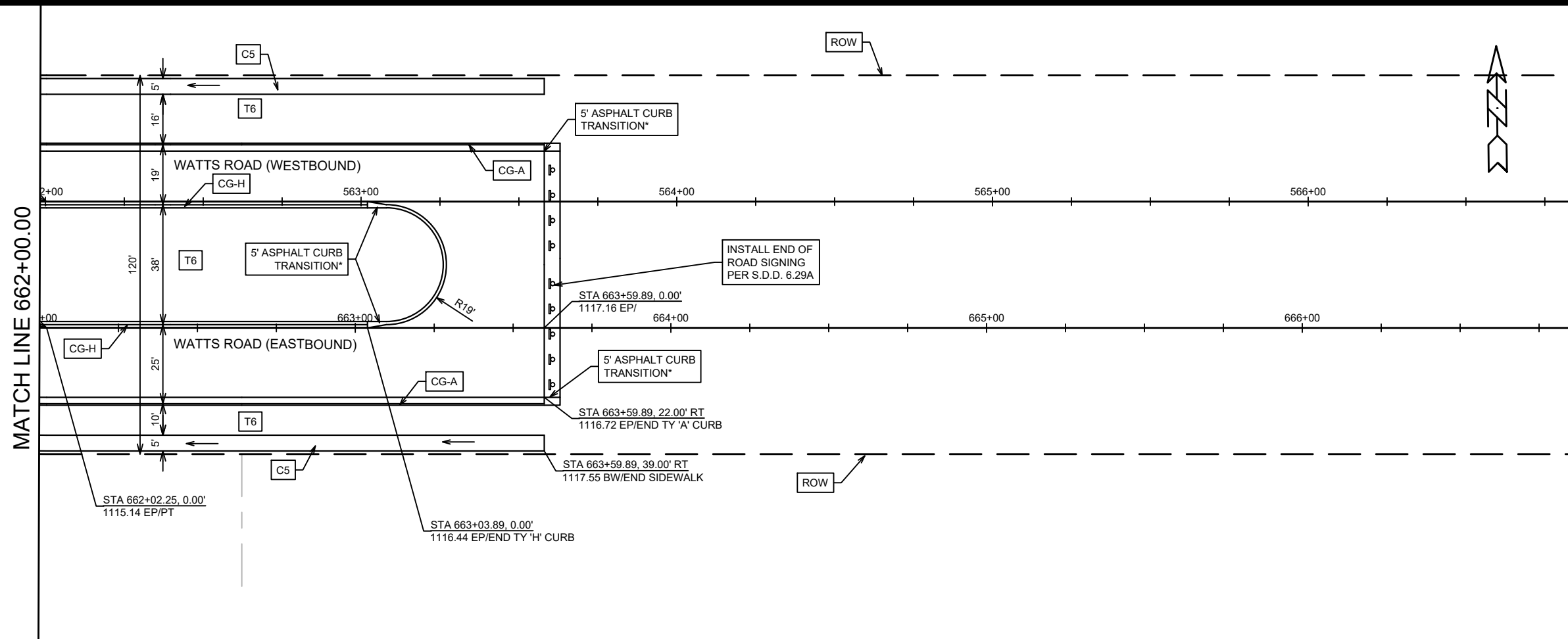
REV#1-8/21/24 - IO
 -Watts rd median underdrain removed.

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14928
 MADISON, WI
 9379
 CONTRACT NO:

STREET PLAN & PROFILE - WATTS ROAD (EASTBOUND)
 ACACIA RIDGE PHASE 11
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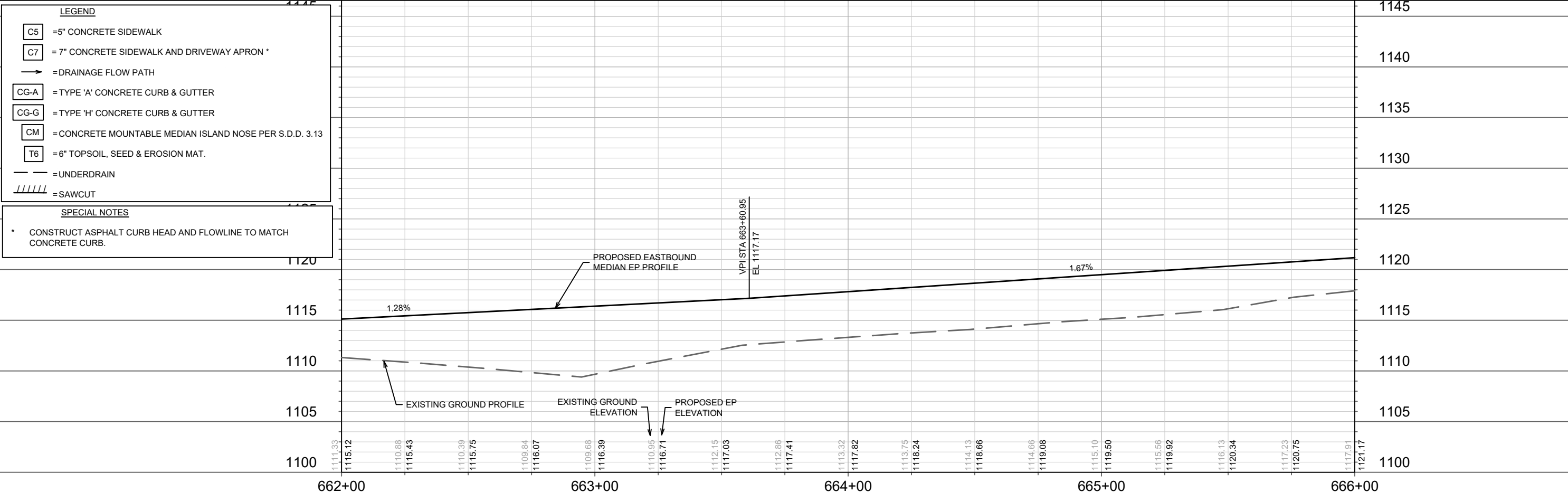


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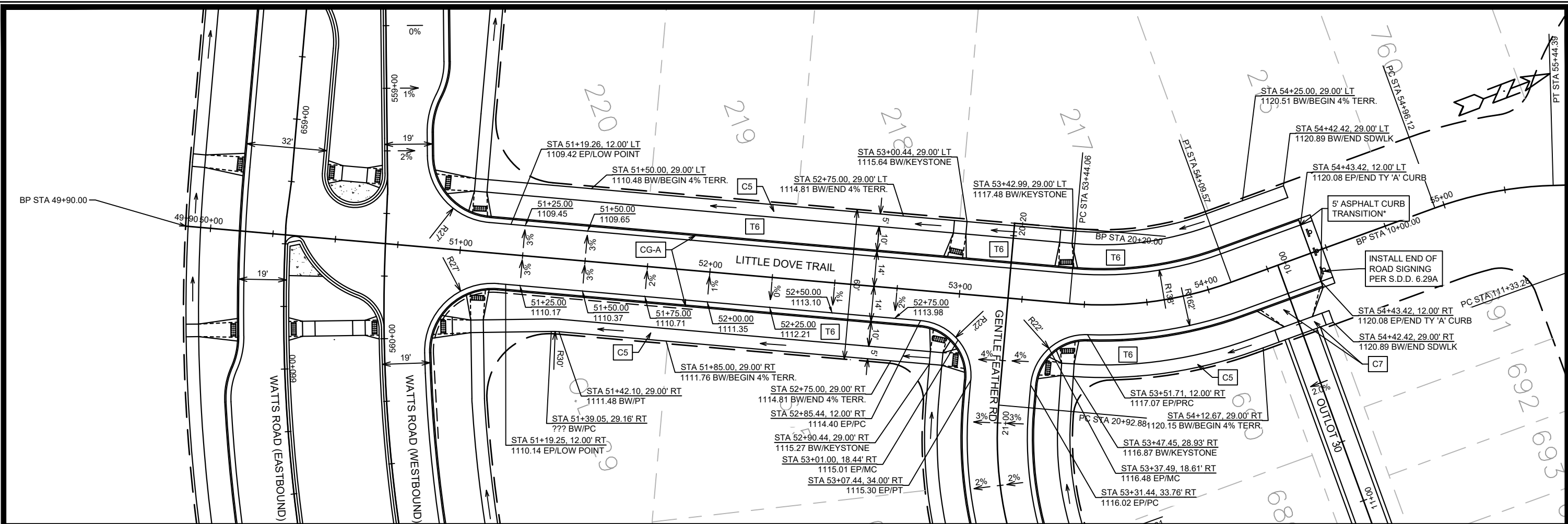
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SPECIAL NOTES

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14928	MADISON, WI	9379	CONTRACT NO:
STREET PLAN & PROFILE - WATTS ROAD (EASTBOUND)			
ACACIA RIDGE PHASE 11			
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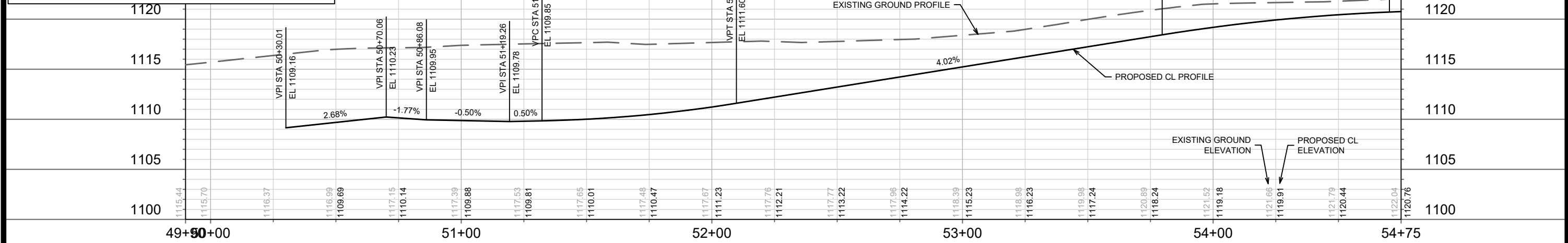


LEGEND

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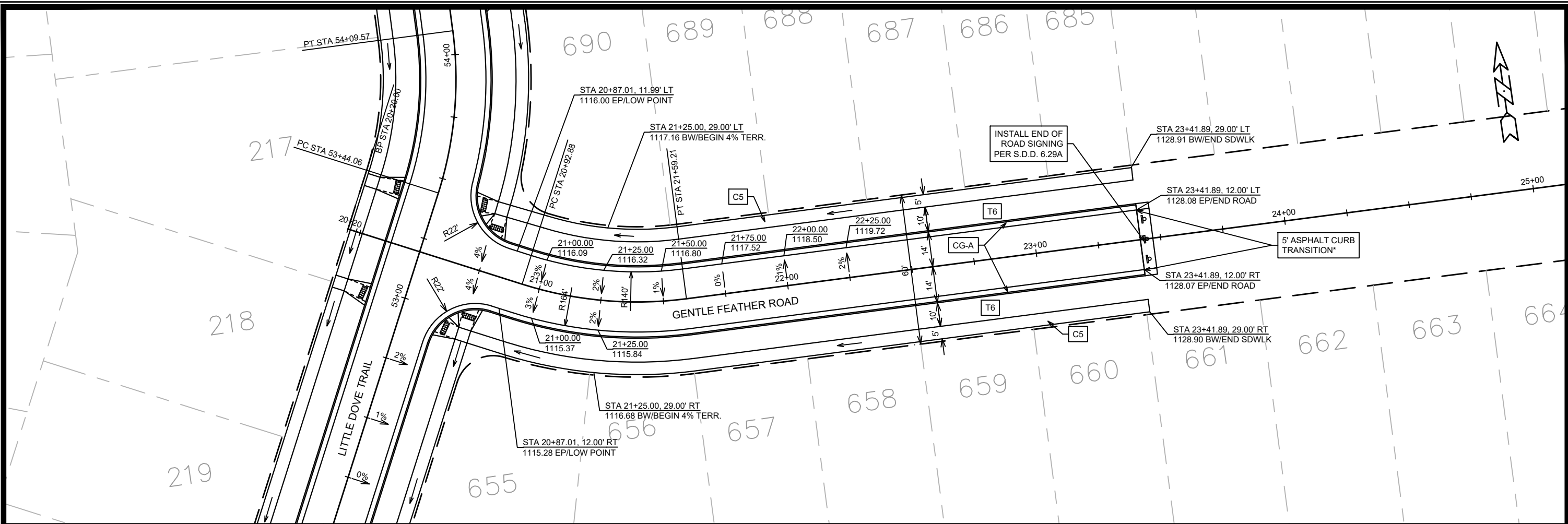
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MADISON, WI
CONTRACT NO: 9379

STREET PLAN & PROFILE - LITTLE DOVE TRAIL
ACACIA RIDGE PHASE 11

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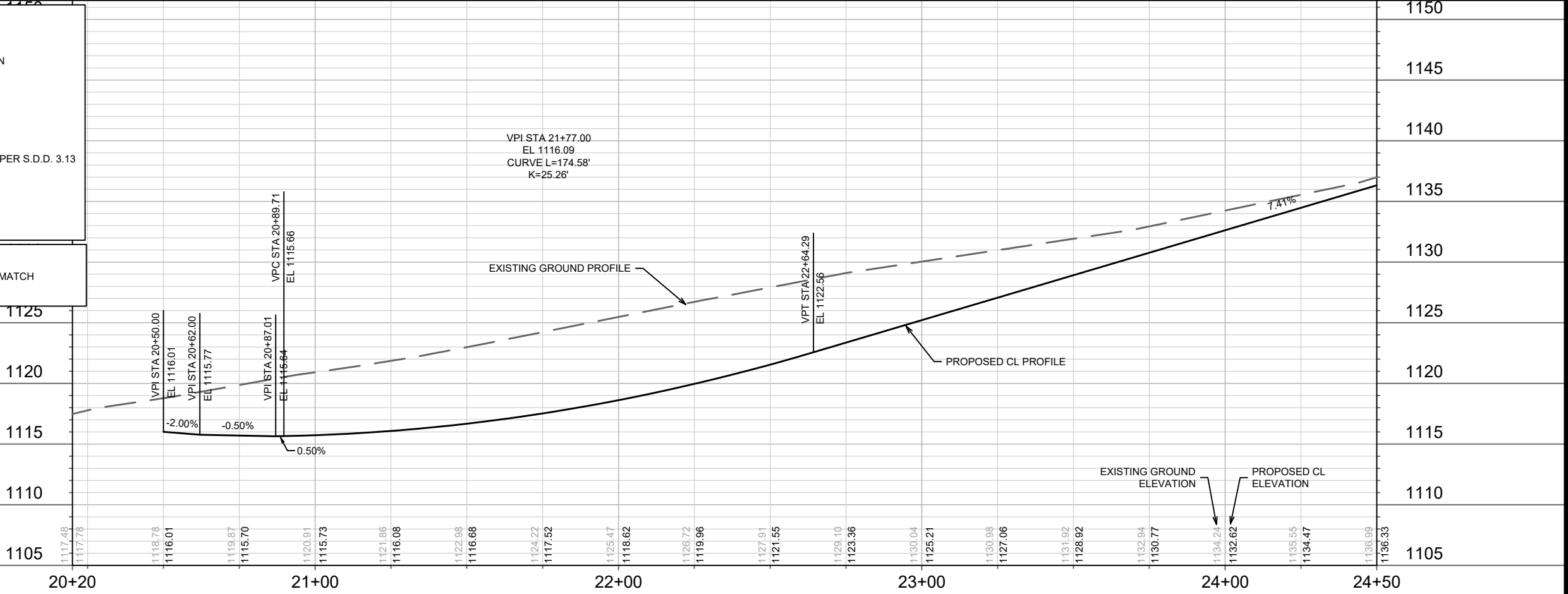


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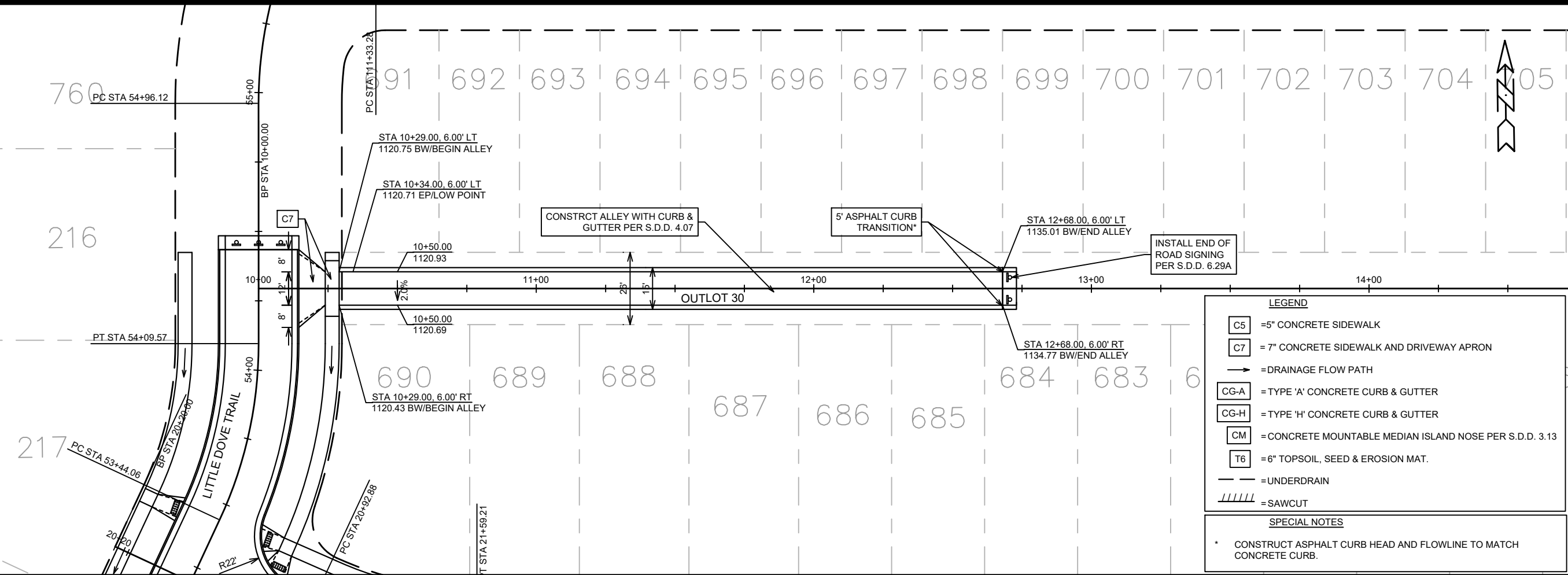
STREET PLAN & PROFILE - GENTLE FEATHER ROAD
ACACIA RIDGE PHASE 11

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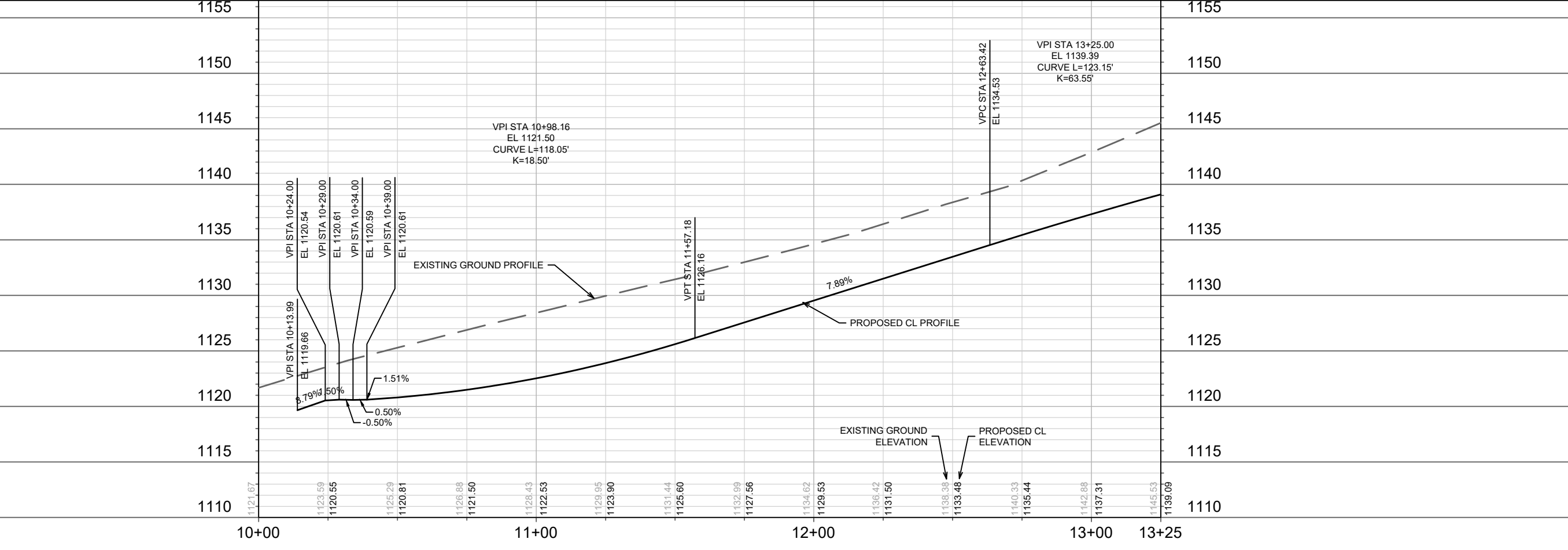


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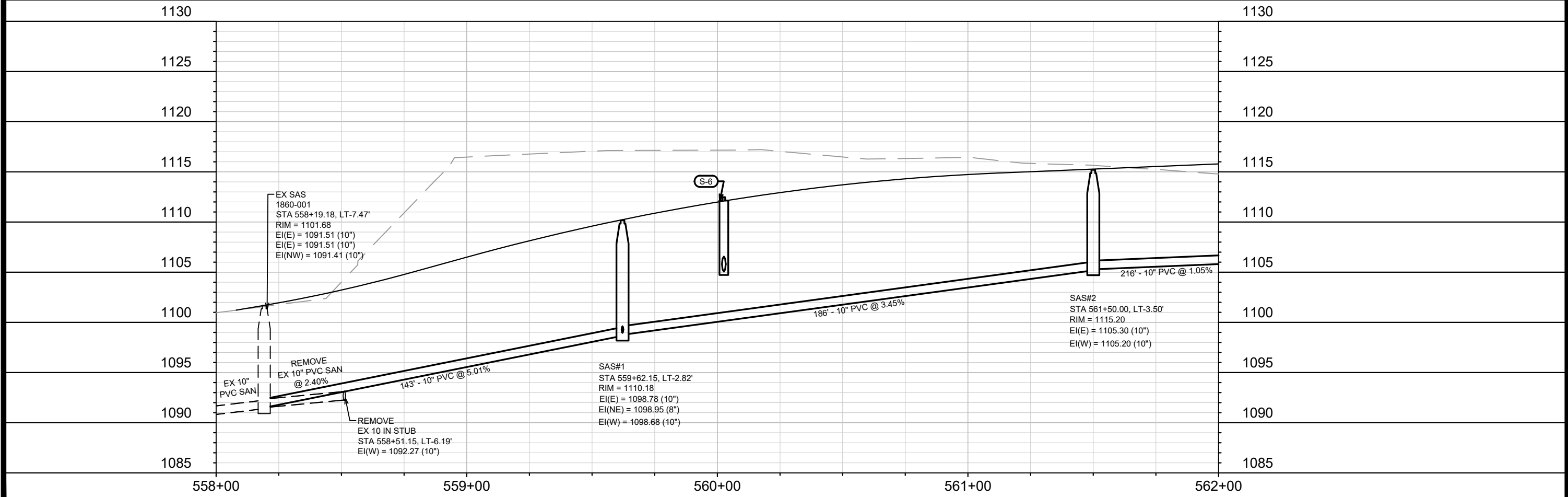
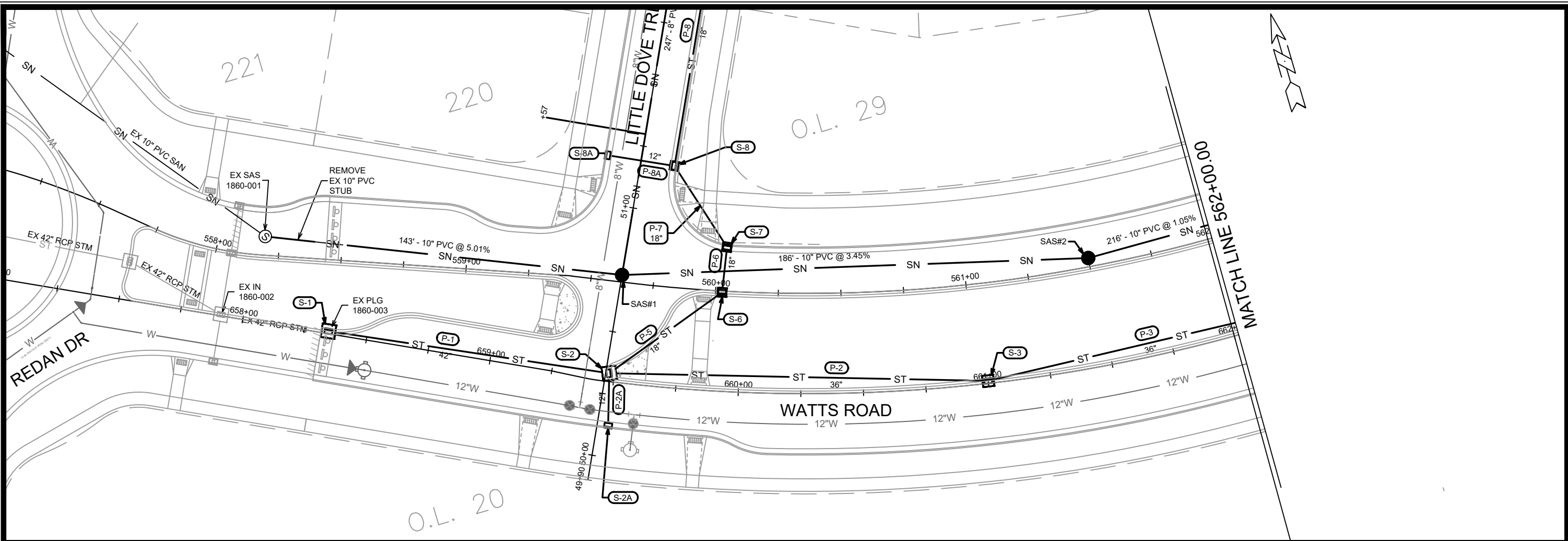
- C5 = 5" CONCRETE SIDEWALK
- C7 = 7" CONCRETE SIDEWALK AND DRIVEWAY APRON
- = DRAINAGE FLOW PATH
- CG-A = TYPE 'A' CONCRETE CURB & GUTTER
- CG-H = TYPE 'H' CONCRETE CURB & GUTTER
- CM = CONCRETE MOUNTABLE MEDIAN ISLAND NOSE PER S.D.D. 3.13
- T6 = 6" TOPSOIL, SEED & EROSION MAT.
- = UNDERDRAIN
- //// = SAWCUT

SPECIAL NOTES

- * CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.



14928	MADISON, WI	9379	CONTRACT NO:
STREET PLAN & PROFILE - OUTLOT 30			
ACACIA RIDGE PHASE 11			
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14928		P-7	



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14928	Designed By: EEA	Date: 8/27/2024 1:46 PM	U-1

14928
 MADISON, WI
 CONTRACT NO: 9379

UTILITIES PLAN & PROFILE - WATTS ROAD (WESTBOUND)
 ACACIA RIDGE PHASE 11
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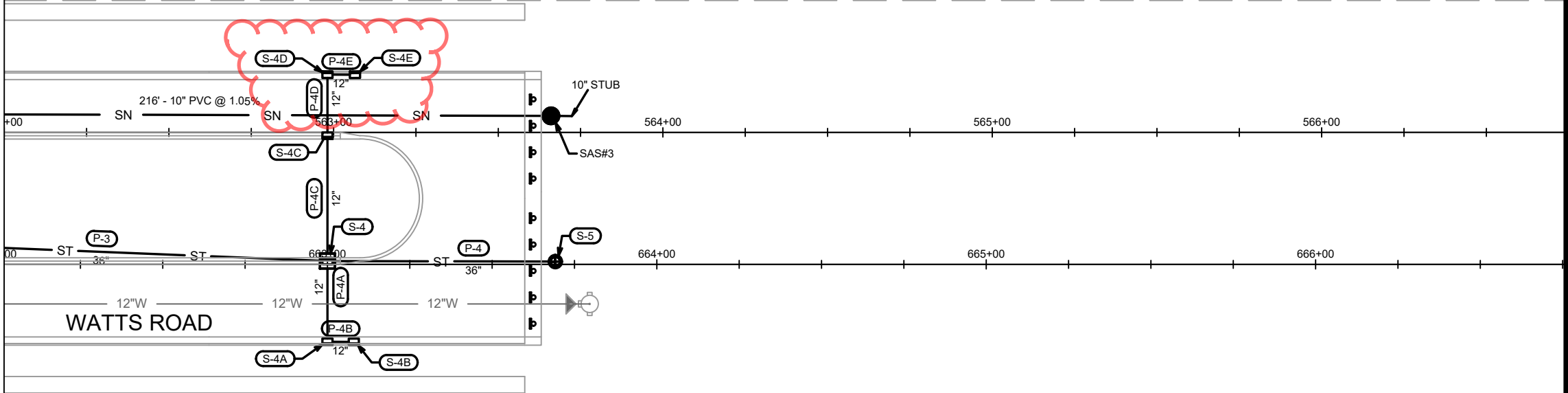
14928
 U-1

REVISED 8/21/2024 - EEA
 -S-4D & S-4E revised to
 new curb location.

O.L. 29

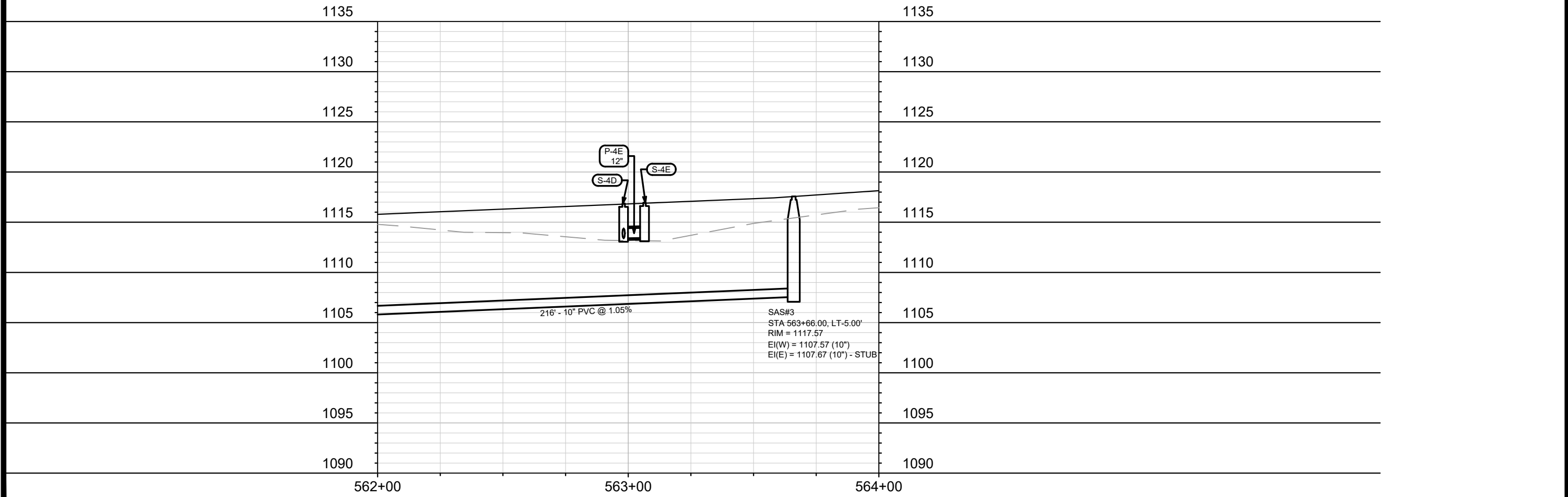


MATCH LINE 562+00.00



O.L. 20

312



SAS#3
 STA 563+66.00, LT-5.00'
 RIM = 1117.57
 EI(W) = 1107.57 (10")
 EI(E) = 1107.67 (10") - STUB

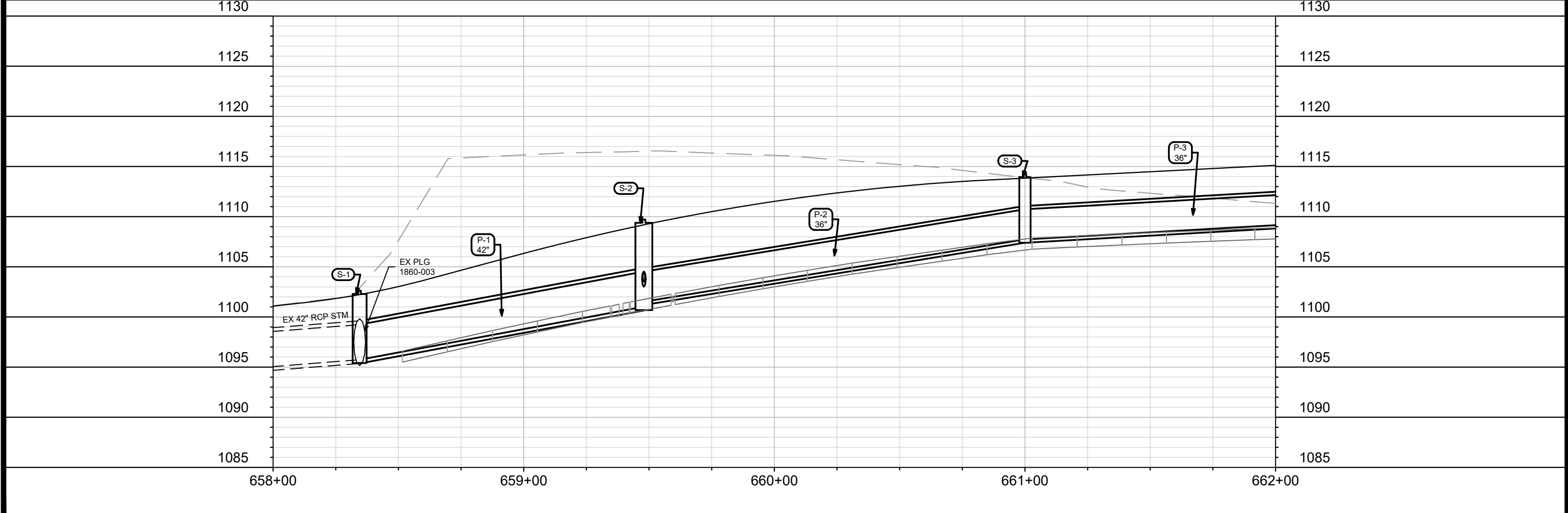
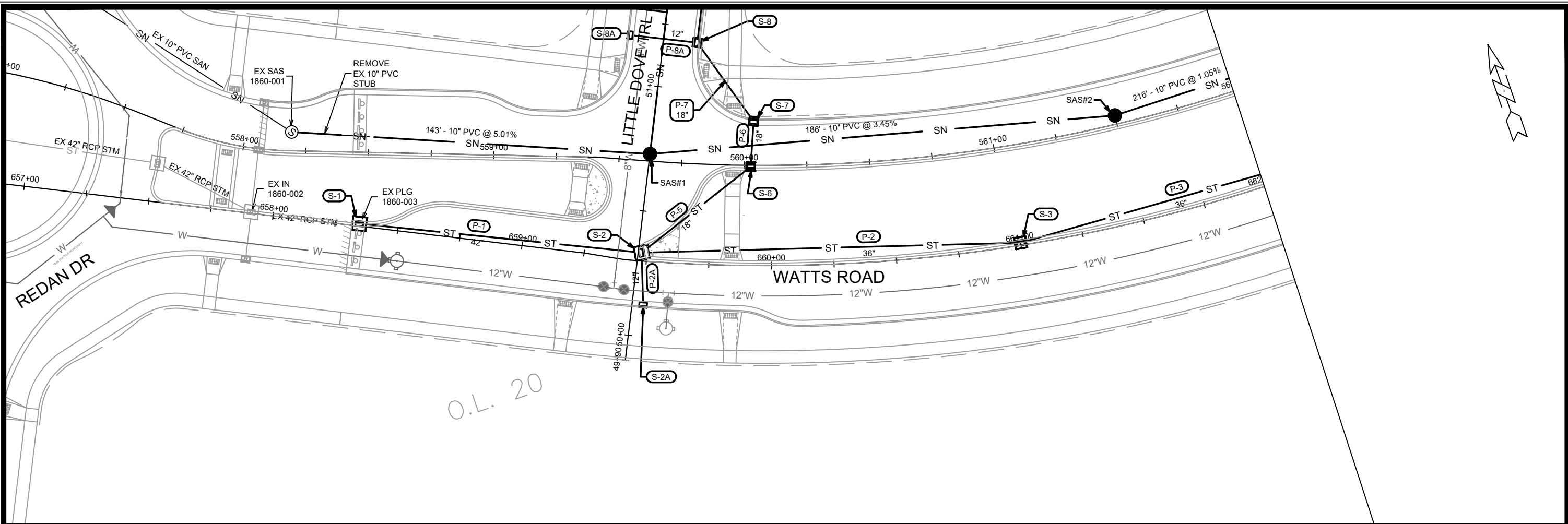
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U-2			

14928
 MADISON, WI
 CONTRACT NO: 9379

UTILITIES PLAN & PROFILE - WATTS ROAD (WESTBOUND)
 ACACIA RIDGE PHASE 11
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14928
 U-2



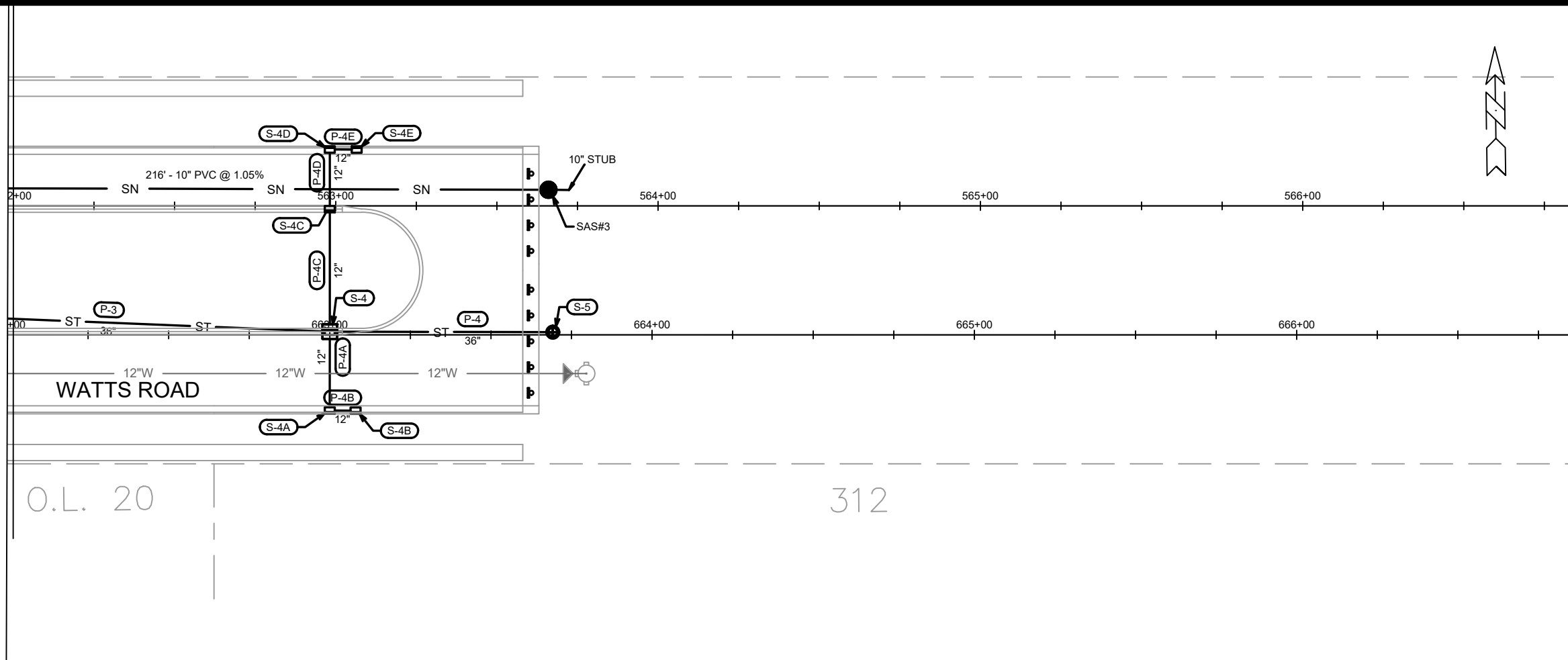
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14928
 MADISON, WI
 CONTRACT NO: 9379

UTILITIES PLAN & PROFILE - WATTS ROAD (EASTBOUND)
 ACACIA RIDGE PHASE 11
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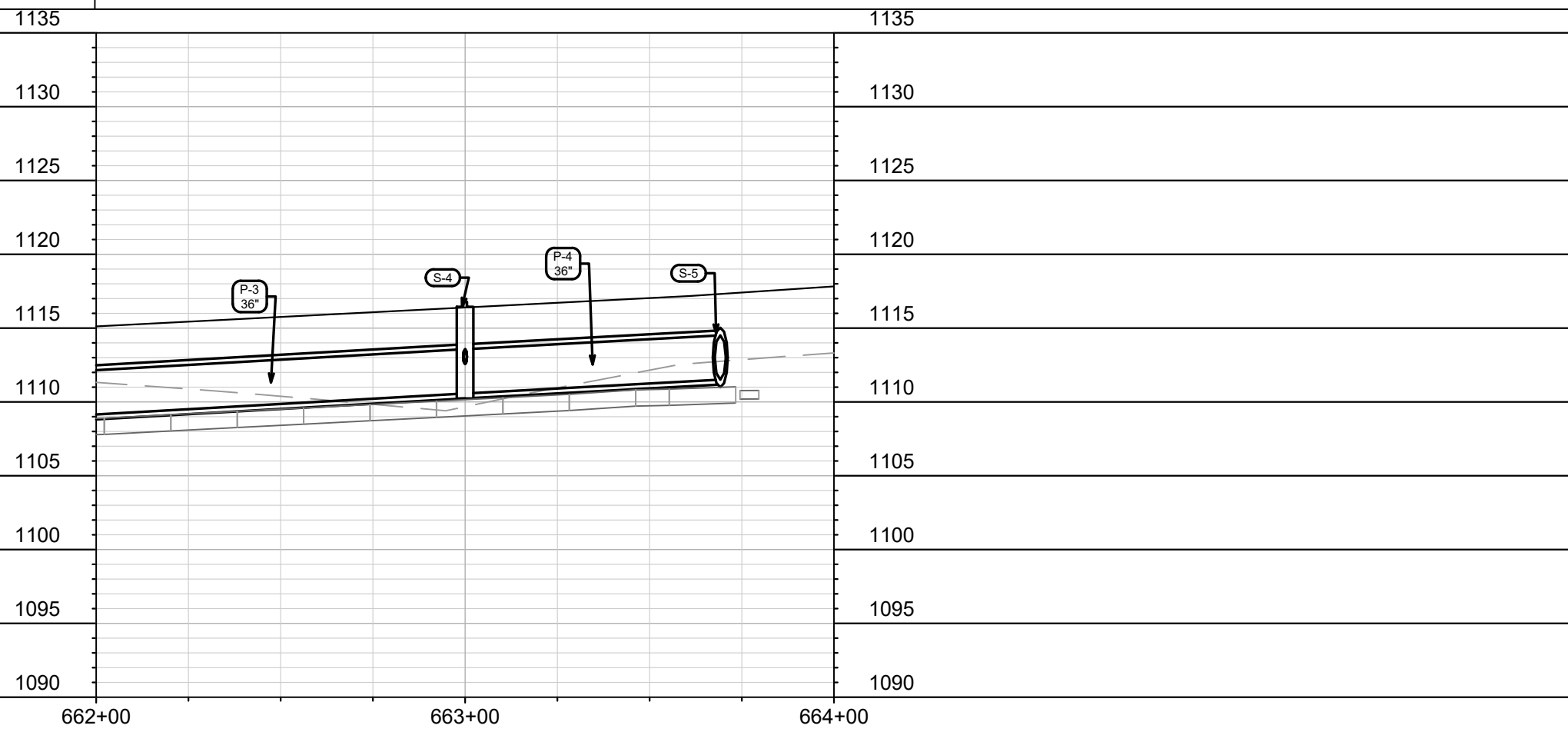


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312



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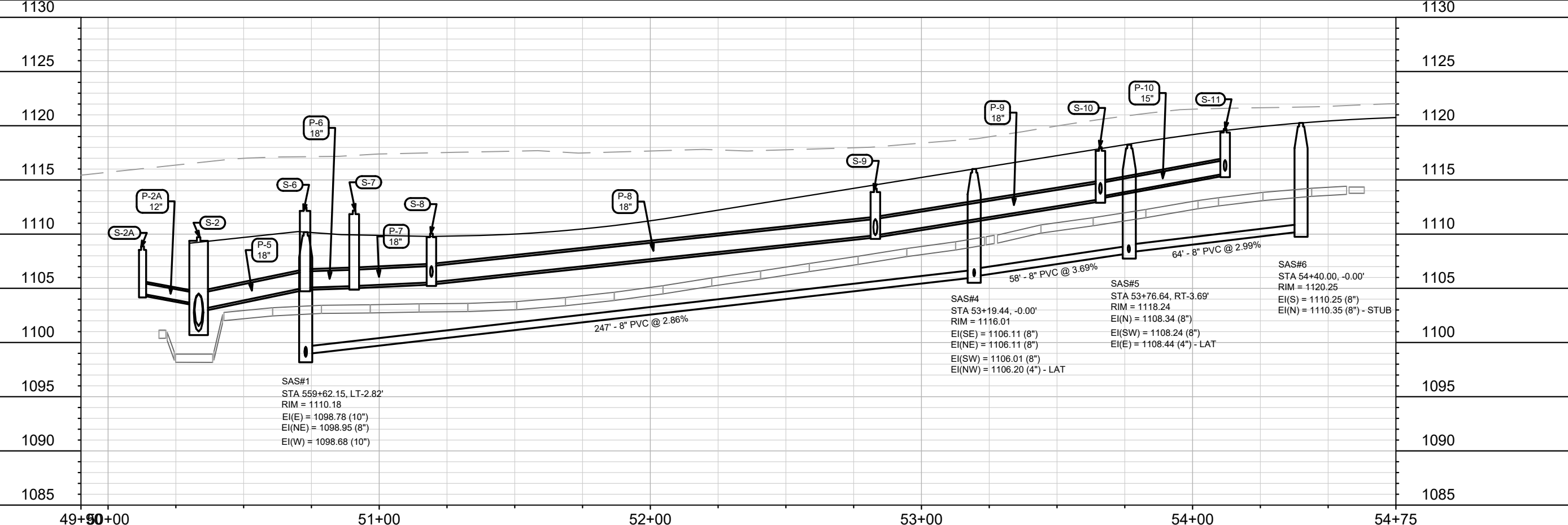
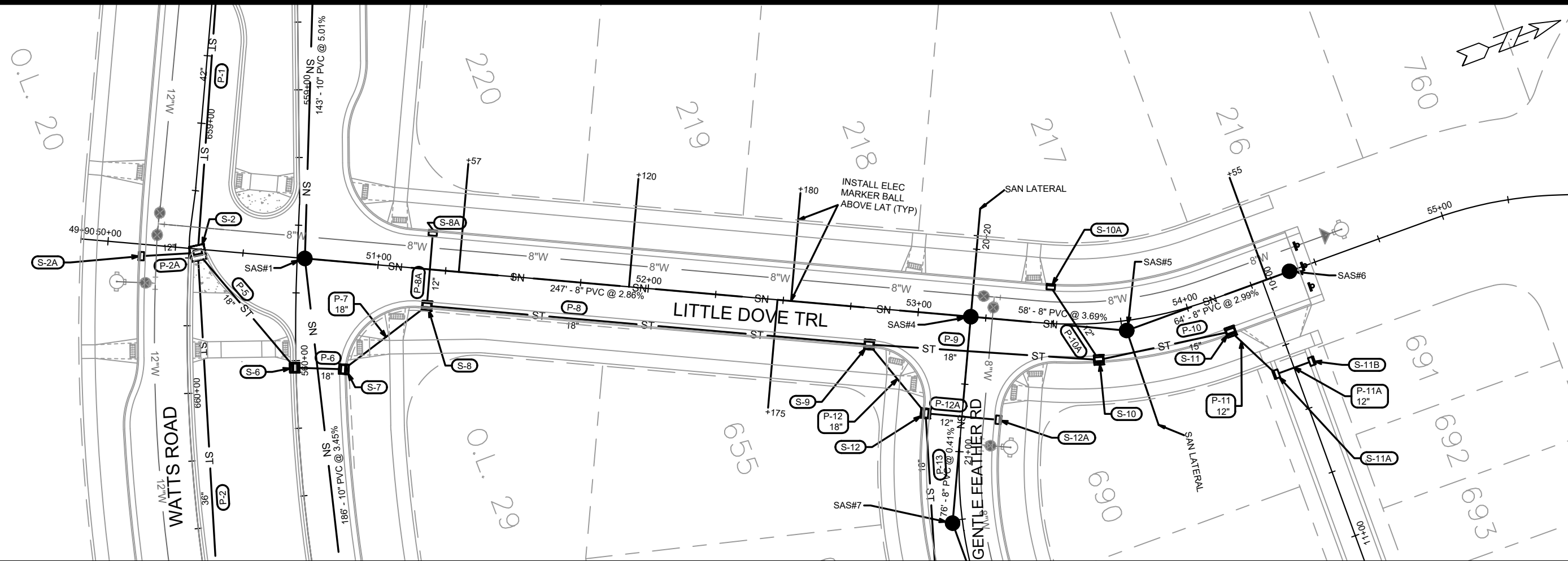
14928
MADISON, WI
CONTRACT NO: 9379

UTILITIES PLAN & PROFILE - WATTS ROAD (EASTBOUND)
ACACIA RIDGE PHASE 11



14928
U-4

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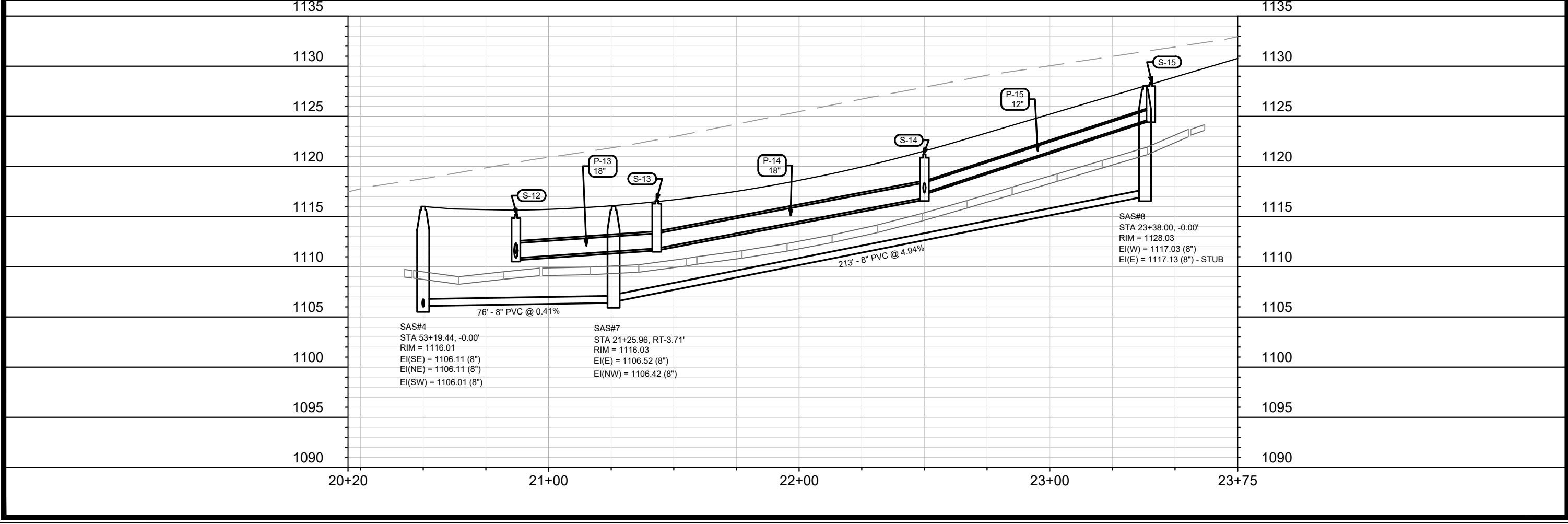
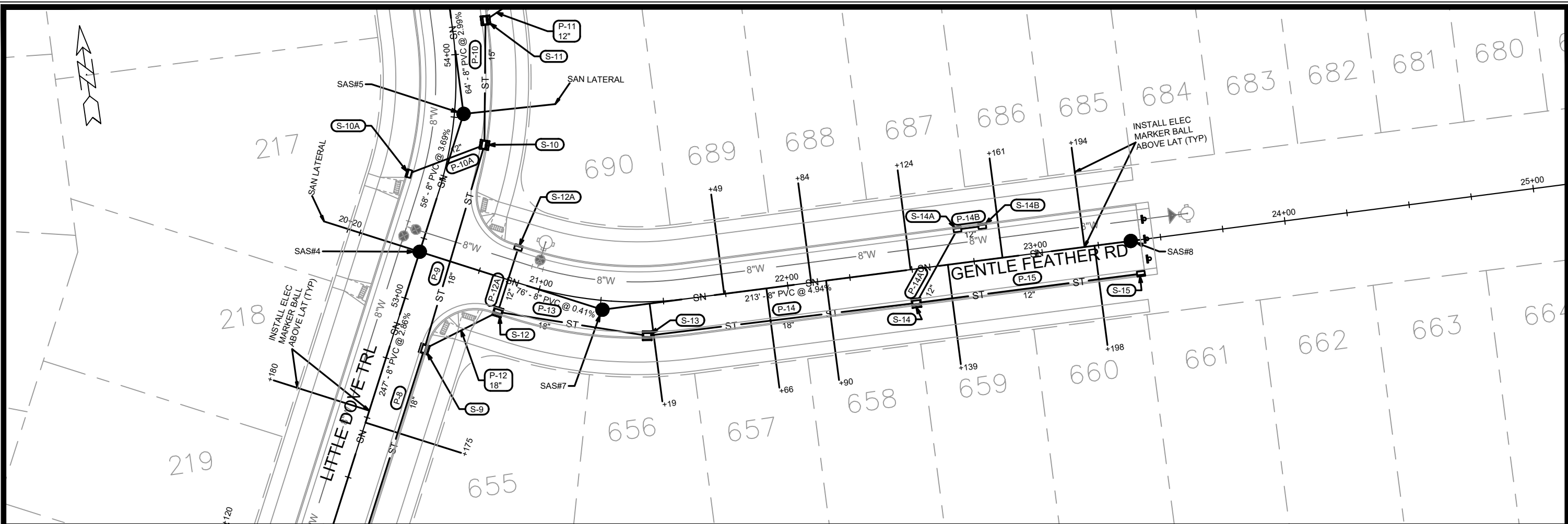
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14928
MADISON, WI
CONTRACT NO: 9379

UTILITIES PLAN & PROFILE - LITTLE DOVE TRAIL
ACACIA RIDGE PHASE 11
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14928
U-5



MARK	REVISION	DATE	BY

14928
 MADISON, WI
 CONTRACT NO: 9379
 U-6

UTILITIES PLAN & PROFILE - GENTLE FEATHER ROAD
 ACACIA RIDGE PHASE 11
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14928
 U-6

SANITARY SEWER SCHEDULE

ACACIA RIDGE PHASE 11

SHEET NO.

PROJECT NO. 14928

U-SAN

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
WATTS ROAD						
SAS#1	559+62.15	LT-2.82	1110.18	1098.68	11.50	-
SAS#2	561+50.00	LT-3.50	1115.20	1105.20	10.00	-
SAS#3	563+66.00	LT-5.00	1117.57	1107.57	10.00	-
LITTLE DOVE TRAIL						
SAS#4	53+19.44	CL	1116.01	1106.01	10.00	-
SAS#5	53+76.64	RT-3.69	1118.24	1108.24	10.00	-
SAS#6	54+40.00	CL	1120.25	1110.25	10.00	-
GENTLE FEATHER ROAD						
SAS#7	21+25.96	RT-3.71	1116.03	1106.42	9.61	-
SAS#8	23+38.00	CL	1128.03	1117.03	11.00	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
WATTS ROAD								
EX SAS 1860-001	SAS#1	1091.51	1098.68	143	5.01%	10"	SDR-35	-
SAS#1	SAS#2	1098.78	1105.20	186	3.45%	10"	SDR-35	-
SAS#2	SAS#3	1105.30	1107.57	216	1.05%	10"	SDR-35	-
LITTLE DOVE TRAIL								
SAS#1	SAS#4	1098.95	1106.01	247	2.86%	8"	SDR-35	-
SAS#4	SAS#5	1106.11	1108.24	58	3.69%	8"	SDR-35	-
SAS#5	SAS#6	1108.34	1110.25	64	2.99%	8"	SDR-35	-
GENTLE FEATHER ROAD								
SAS#4	SAS#7	1106.11	1106.42	76	0.41%	8"	SDR-35	-
SAS#7	SAS#8	1106.52	1117.03	213	4.94%	8"	SDR-35	-

NOTES:

- ALL STRUCTURES SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL. CONTACT ELIA E ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

* REVISED 8/21/2024 - EEA

ACACIA RIDGE PHASE 11	SHEET NO.
PROJECT NO. 14928	U-STM
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
WATTS RD EASTBOUND							
S-1	658+34.53	LT-1.00	5X5 SAS	1102.61	1095.74	6.87	W/ R-3067-7004-V
* S-2	659+47.94	LT-3.30	5X5 SAS	1109.66	1101.02	8.64	LP; W/ R-3067-7009
S-2A	659+50.00	RT-17.50	H INLET	1109.36	1104.49	4.87	W/ R-3067-7004-V
S-3	661+00.00	LT-1.00	4X4 SAS	1114.22	1107.73	6.49	W/ R-3067-7004-V
S-4	663+00.00	LT-1.00	4X4 SAS	1116.77	1110.57	6.20	W/ R-3067-7004-V
S-4A	663+00.00	RT-23.50	H INLET	1116.33	1112.73	3.60	W/ R-3067-7004-V
S-4B	663+08.00	RT-23.50	H INLET	1116.43	1112.83	3.60	W/ R-3067-7004-V
S-5	663+69.17	LT-0.83	PIPE PLUG	-	1111.90	-	-
WATTS RD WESTBOUND							
S-4C	562+98.16	RT-1.00	H INLET	1117.19	1113.12	4.07	W/ R-3067-7004-V
* S-4D	562+98.16	LT-17.50	H INLET	1116.87	1113.39	3.48	W/ R-3067-7004-V
* S-4E	563+06.50	LT-17.50	H INLET	1116.95	1113.44	3.51	W/ R-3067-7004-V
S-6	560+02.60	RT-0.50	3X3 SAS	1112.48	1105.06	7.42	W/ R-3067-7004-V
S-7	560+03.60	LT-17.62	3X3 SAS	1112.18	1105.21	6.97	W/ R-3067-7004-V
LITTLE DOVE TRAIL							
S-8	51+19.25	RT-13.50	3X3 SAS	1110.52	1105.55	4.97	LP; W/ R-3067-7004-VB
S-8A	51+19.07	LT-13.50	H INLET	1109.80	1106.20	3.60	LP; W/ R-3067-7004-VB
S-9	52+83.00	RT-13.50	3X3 SAS	1114.69	1109.89	4.80	W/ R-3067-7004-V
S-10	53+66.00	RT-13.50	3X3 SAS	1118.02	1113.22	4.80	W/ R-3067-7004-V
S-10A	53+48.25	LT-13.50	H INLET	1117.31	1113.91	3.40	W/ R-3067-7004-V
S-11	54+12.00	RT-13.50	3X3 SAS	1119.70	1115.58	4.12	W/ R-3067-7004-V
OUTLOT 30							
S-11A	10+34.00	RT-6.75	H INLET	1120.46	1117.06	3.40	LP; W/ R-3362-L; PER SDD 5.7.33; (1)
S-11B	10+34.00	LT-6.75	H INLET	1120.71	1117.31	3.40	LP; W/ R-3362-L; PER SDD 5.7.33; (1)
GENTLE FEATHER ROAD							
S-12	20+87.00	RT-13.50	3X3 SAS	1115.66	1110.86	4.80	LP; W/ R-3067-7004-VB
S-12A	20+87.03	LT-13.50	H INLET	1116.38	1112.78	3.60	LP; W/ R-3067-7004-VB
S-13	21+43.20	RT-13.50	3X3 SAS	1116.63	1111.83	4.80	W/ R-3067-7004-V
S-14	22+50.00	RT-13.50	3X3 SAS	1121.68	1116.88	4.80	W/ R-3067-7004-V
S-14A	22+70.00	LT-13.50	H INLET	1123.13	1119.53	3.60	W/ R-3067-7004-V
S-14B	22+80.00	LT-13.50	H INLET	1123.87	1120.27	3.60	W/ R-3067-7004-V
S-15	23+40.36	RT-13.50	H INLET	1128.34	1124.74	3.60	W/ R-3067-7004-V

SPECIFIC NOTES:

(1) TC IS AT FLOWLINE; STATIONING IS TO CENTER OF STRUCTURE

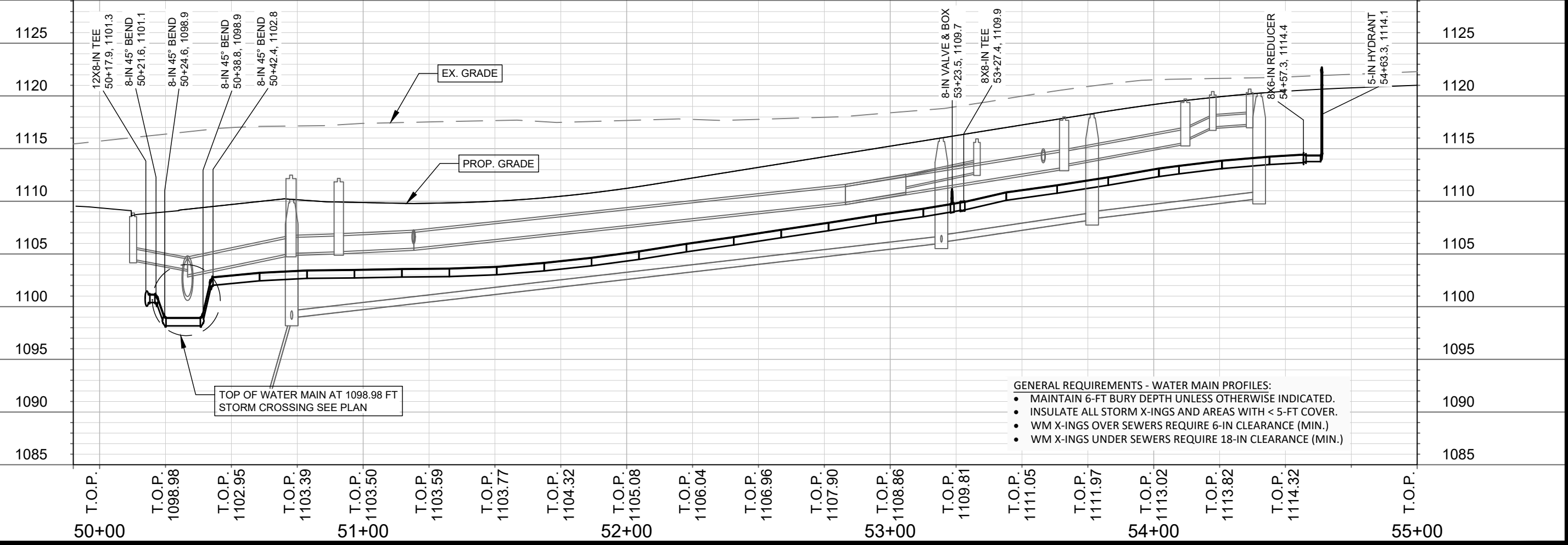
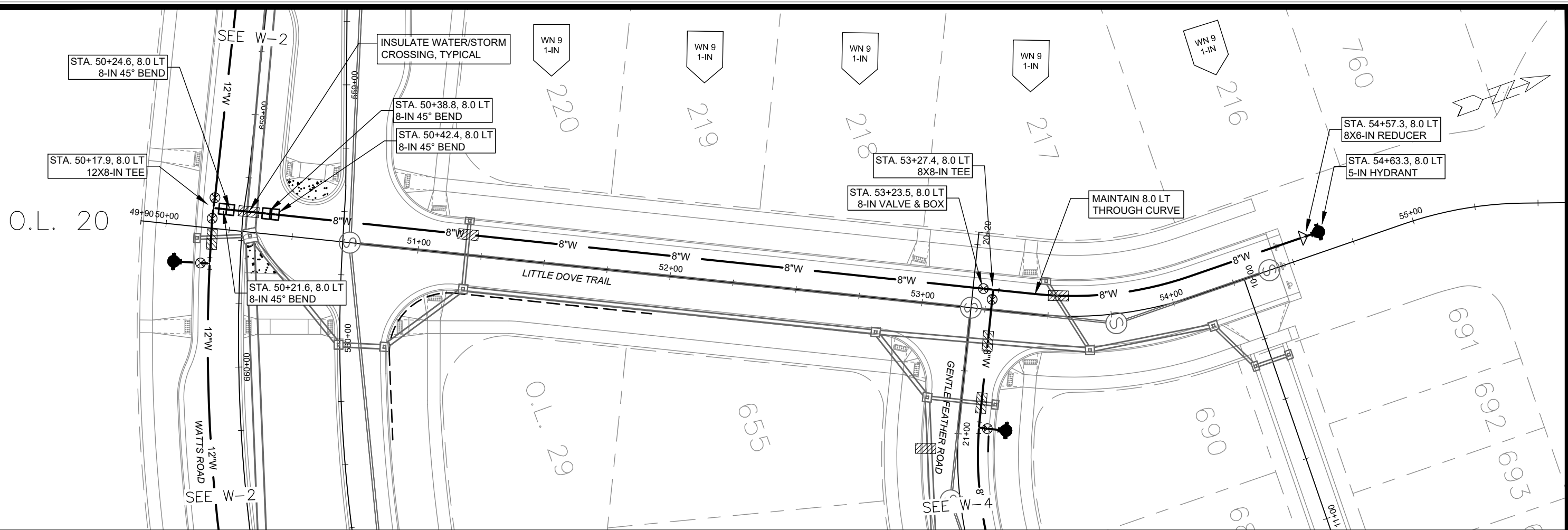
STANDARD NOTES:

- 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.

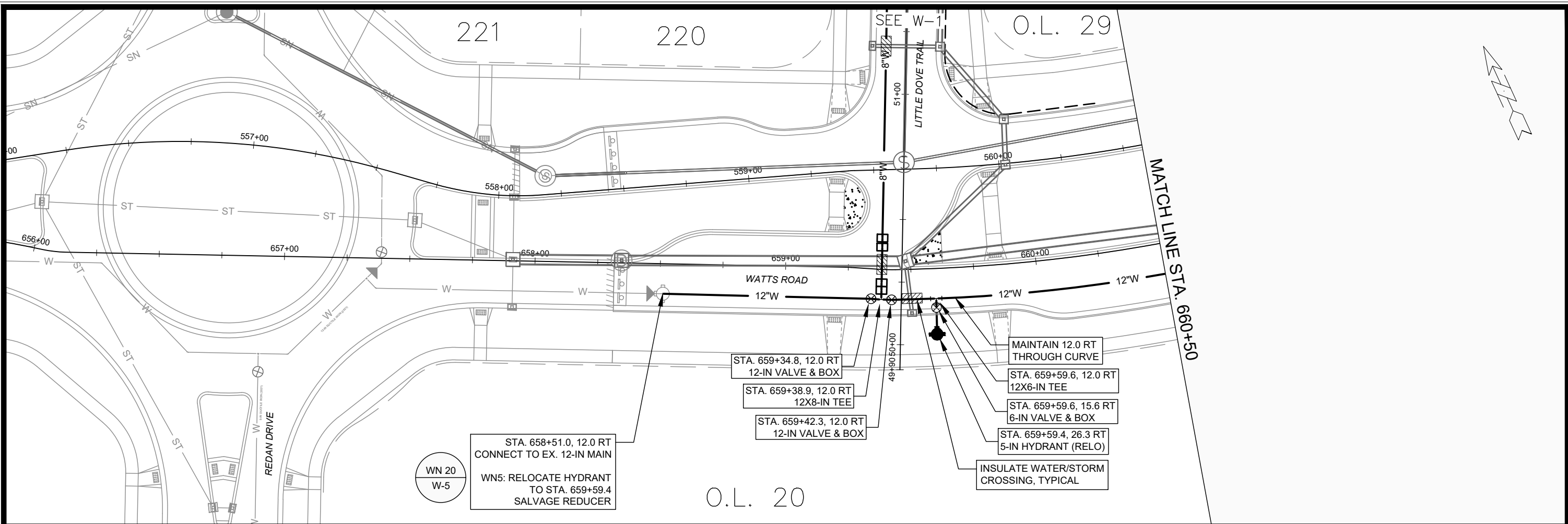
PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
WATTS RD EASTBOUND										
P-1	S-1	S-2	1095.74	1101.02	113	108	4.89%	42"	TYPE I	-
P-2	S-2	S-3	1101.52	1107.73	151	147	4.22%	36"	TYPE I	-
P-2A	S-2	S-2A	1103.52	1104.49	21	17	5.71%	12"	TYPE I	-
P-3	S-3	S-4	1107.73	1110.57	200	196	1.45%	36"	TYPE I	-
P-4	S-4	S-5	1110.57	1111.51	69	67	1.40%	36"	TYPE I	-
P-4A	S-4	S-4A	1112.57	1112.73	25	22	0.73%	12"	TYPE I	-
P-4B	S-4A	S-4B	1112.73	1112.83	8	5	2.00%	12"	TYPE II	-
WATTS RD WESTBOUND										
P-4C	S-4	S-4C	1112.57	1113.12	38	35	1.57%	12"	TYPE II	-
* P-4D	S-4C	S-4D	1113.12	1113.39	19	17	1.59%	12"	TYPE I	-
* P-4E	S-4D	S-4E	1113.39	1113.44	8	5	1.00%	12"	TYPE II	-
P-5	S-2	S-6	1103.02	1105.06	55	51	4.00%	18"	TYPE II	-
P-6	S-6	S-7	1105.06	1105.21	18	15	1.00%	18"	TYPE I	-
P-7	S-7	S-8	1105.21	1105.55	39	34	1.00%	18"	TYPE I	-
LITTLE DOVE TRAIL										
P-8	S-8	S-9	1105.55	1109.89	164	161	2.70%	18"	TYPE I	-
P-8A	S-8	S-8A	1106.05	1106.20	27	25	0.60%	12"	TYPE I	-
P-9	S-9	S-10	1109.89	1113.22	85	82	4.06%	18"	TYPE I	-
P-10	S-10	S-11	1113.47	1115.58	50	47	4.49%	15"	TYPE I	-
P-10A	S-10	S-10A	1113.72	1113.91	32	29	0.66%	12"	TYPE I	-
OUTLOT 30										
P-11	S-11	S-11A	1115.83	1117.06	23	20	6.15%	12"	TYPE II	-
P-11A	S-11A	S-11B	1117.06	1117.31	14	12	2.08%	12"	TYPE II	-
GENTLE FEATHER ROAD										
P-12	S-9	S-12	1109.89	1110.86	33	29	3.34%	18"	TYPE II	-
P-12A	S-12	S-12A	1111.36	1112.78	27	25	5.68%	12"	TYPE I	-
P-13	S-12	S-13	1110.86	1111.83	60	57	1.70%	18"	TYPE II	-
P-14	S-13	S-14	1111.83	1116.88	108	105	4.81%	18"	TYPE I	-
P-14A	S-14	S-14A	1117.38	1119.53	34	31	6.94%	12"	TYPE I	-
P-14B	S-14A	S-14B	1119.53	1120.27	10	7	10.57%	12"	TYPE II	-
P-15	S-14	S-15	1117.38	1124.74	91	87	8.46%	12"	TYPE II	-

- 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) 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



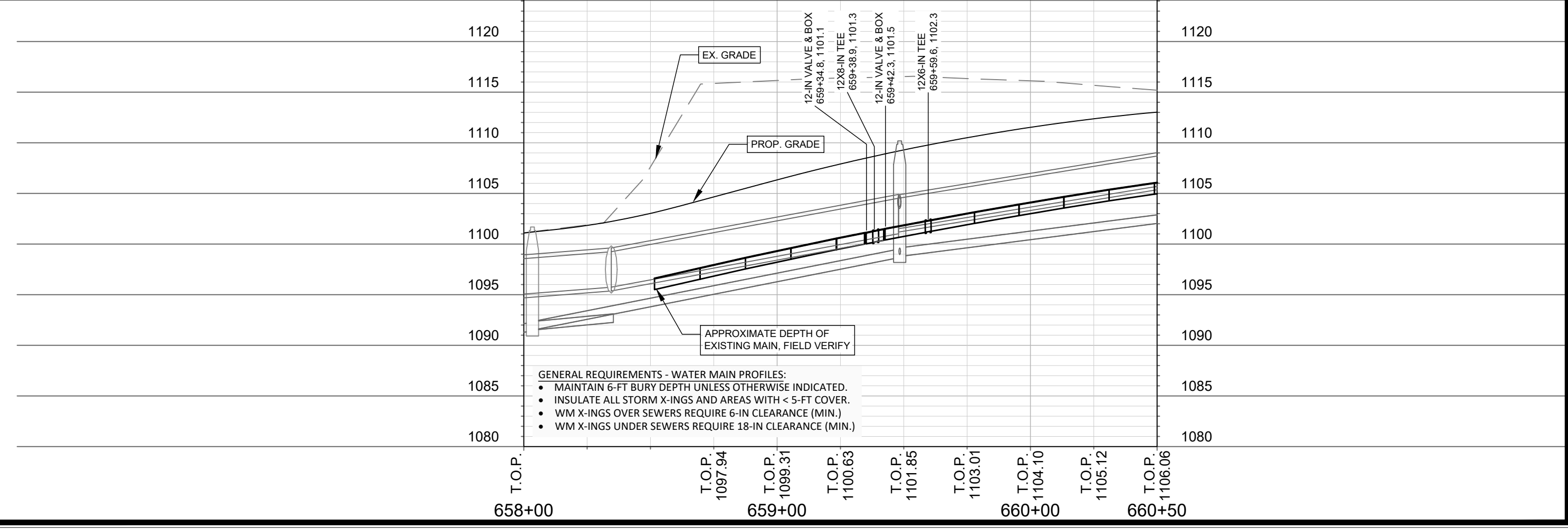
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WATER PLAN AND PROFILE - LITTLE DOVE TRAIL ACACIA RIDGE PHASE 11			
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14928 W-1			



WN 20
W-5

WN5: RELOCATE HYDRANT TO STA. 659+59.4 SALVAGE REDUCER

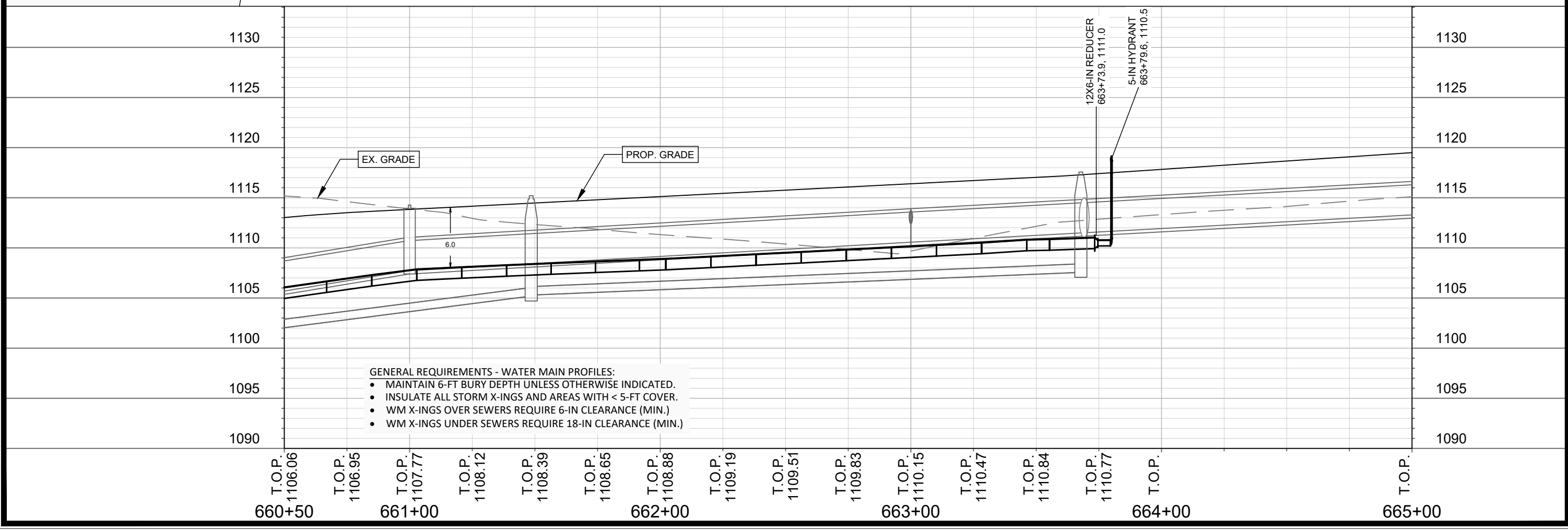
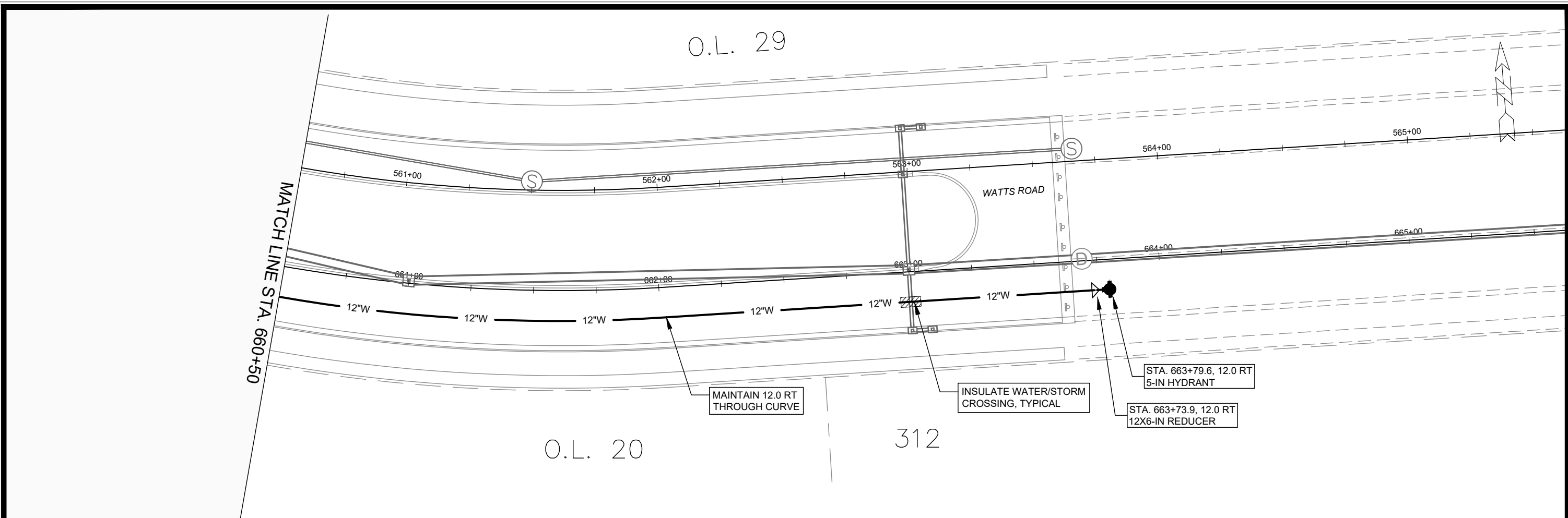
O.L. 20



- 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.)

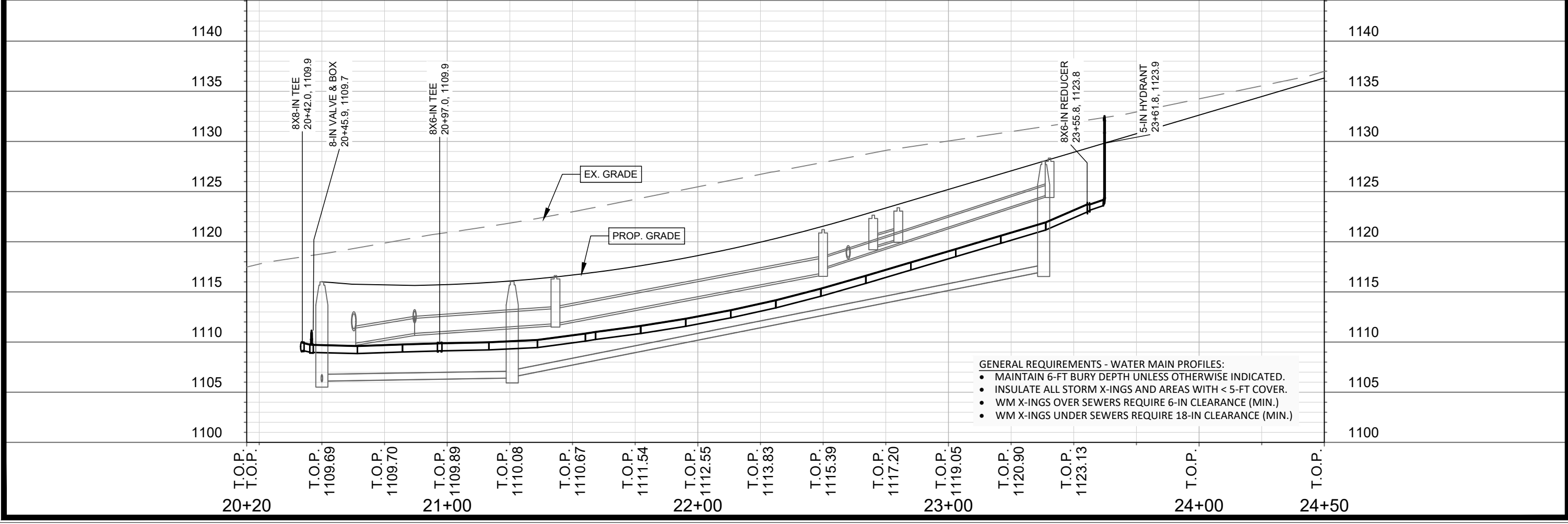
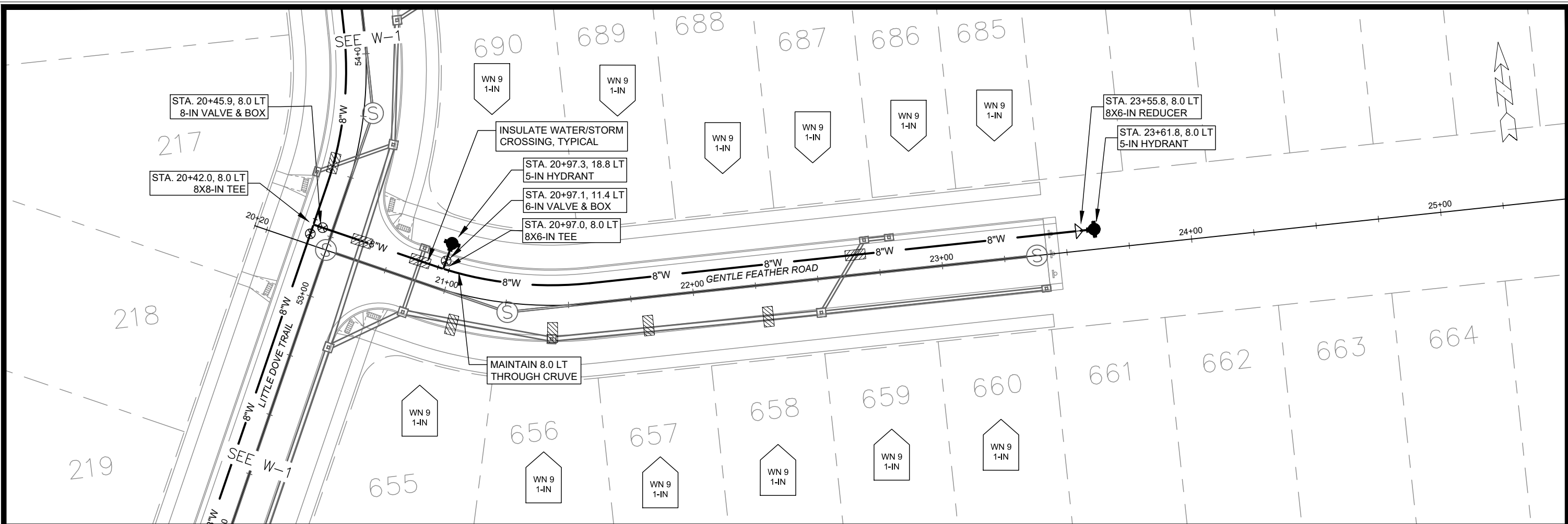
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MADISON, WI	MADISON, WI	MADISON, WI
ACACIA RIDGE PHASE 11	ACACIA RIDGE PHASE 11	ACACIA RIDGE PHASE 11
CONTRACT NO: 9379	CONTRACT NO: 9379	CONTRACT NO: 9379
W-2	W-2	W-2

WATER PLAN AND PROFILE - WATTS ROAD
 ACACIA RIDGE PHASE 11
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 City of Madison, Wisconsin
 Date: 8/21/2024 2:00 PM
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 Designed By: 14928
 Mark: 14928
 Revision: 14928
 Date: 8/21/2024 2:00 PM
 Scale: #####
 W-2



MARK	REVISION	DATE	BY
14928	14928	8/21/2024	W-3
Scale: #####		Date: 8/21/2024 2:00 PM	

14928
 MADISON, WI
 CONTRACT NO: 9379
 WATER PLAN AND PROFILE - WATTS ROAD
 ACACIA RIDGE PHASE 11
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 14928
 W-3




- 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.)

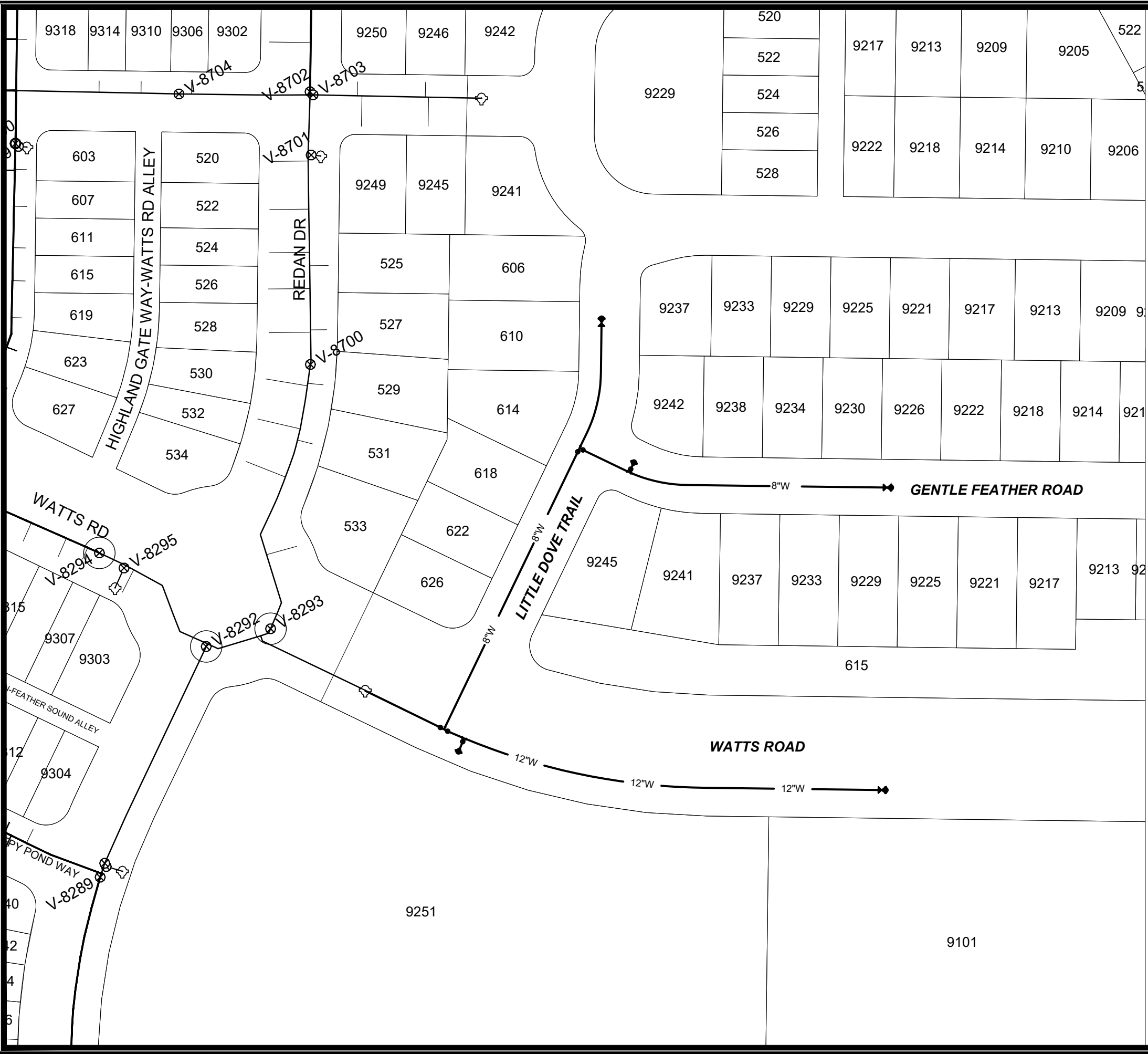
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REVISION			
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	SCALE	AS SHOWN	

14928
MADISON, WI
ACACIA RIDGE PHASE 11
CONTRACT NO: 9379

WATER PLAN AND PROFILE - GENTLE FEATHER ROAD
 M:\DESIGN\Projects\14928\CAD\Water\14928 Acacia Ridge Ph 11 Water.dwg



14928
W-4



1" = 100'

WN20: CUT-IN CONNECTION
WATTS ROAD

ISOLATION VALVES:
 - V-8293 (8-IN)
 - V-8292 (8-IN)
 - V-8294 (12-IN)

NOTIFY: 9303 WATTS ROAD

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.

SCALE: #####
 DESIGNED BY: NGM
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 7/24/24

CONTRACT NO: 9379

ACACIA RIDGE PHASE 11
 WATER IMPACT PLAN
 CITY OF MADISON, WISCONSIN



14928
 W-5

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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 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. | <p>WN-1 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 MATERIALS SUPPLIED BY CONTRACTOR:**

PAY_ITEM_ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	43	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	815	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	575	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	2	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	2	EACH
70034	FURNISH AND INSTALL 12-INCH WATER VALVE	2	EACH
70040	FURNISH AND INSTALL AND SALVAGE HYDRANT	4	EACH
70050	FURNISH AND INSTALL 1-INCH SERVICE LATERALS	17	EACH
70101	FURNISH AND INSTALL STYROFOAM	12	EACH
71123	8-IN 45° BEND	4	EACH
71159	8X6-IN REDUCER	2	EACH
71164	12X6-IN REDUCER	1	EACH
71210	8X6-IN TEE	1	EACH
71211	8X8-IN TEE	1	EACH
71217	12X6-IN TEE	1	EACH
71218	12X8-IN TEE	1	EACH

***ESTIMATE OF MATERIALS SALVAGED:**

RELOCATED HYDRANT	1	EACH
12X6-IN REDUCER	1	EACH

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

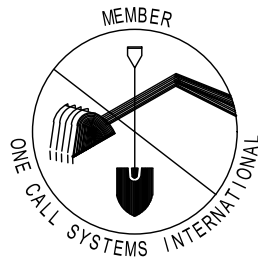
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE TOLL FREE 811 OR 1-800-242-8511

FAX-A-LOCATE 1-800-338-3860

TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

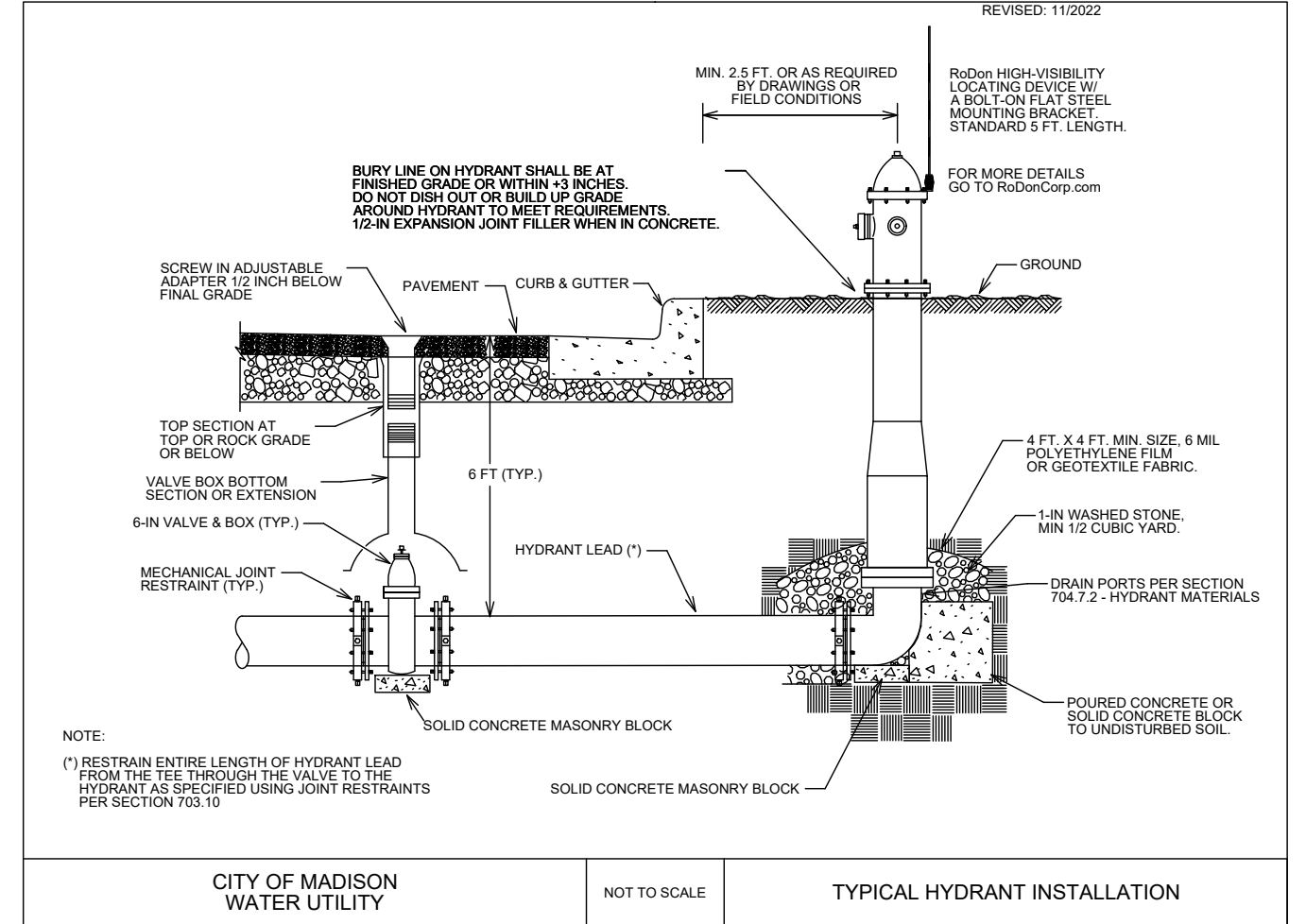


DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

WATER UTILITY ULO SCHEDULE

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

SCALE: N/A

DESIGNED BY: NGM
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 7/2/24

CONTRACT NO: 9379

ACACIA RIDGE PHASE 11
WATER ESTIMATE OF MATERIALS
CITY OF MADISON, WISCONSIN

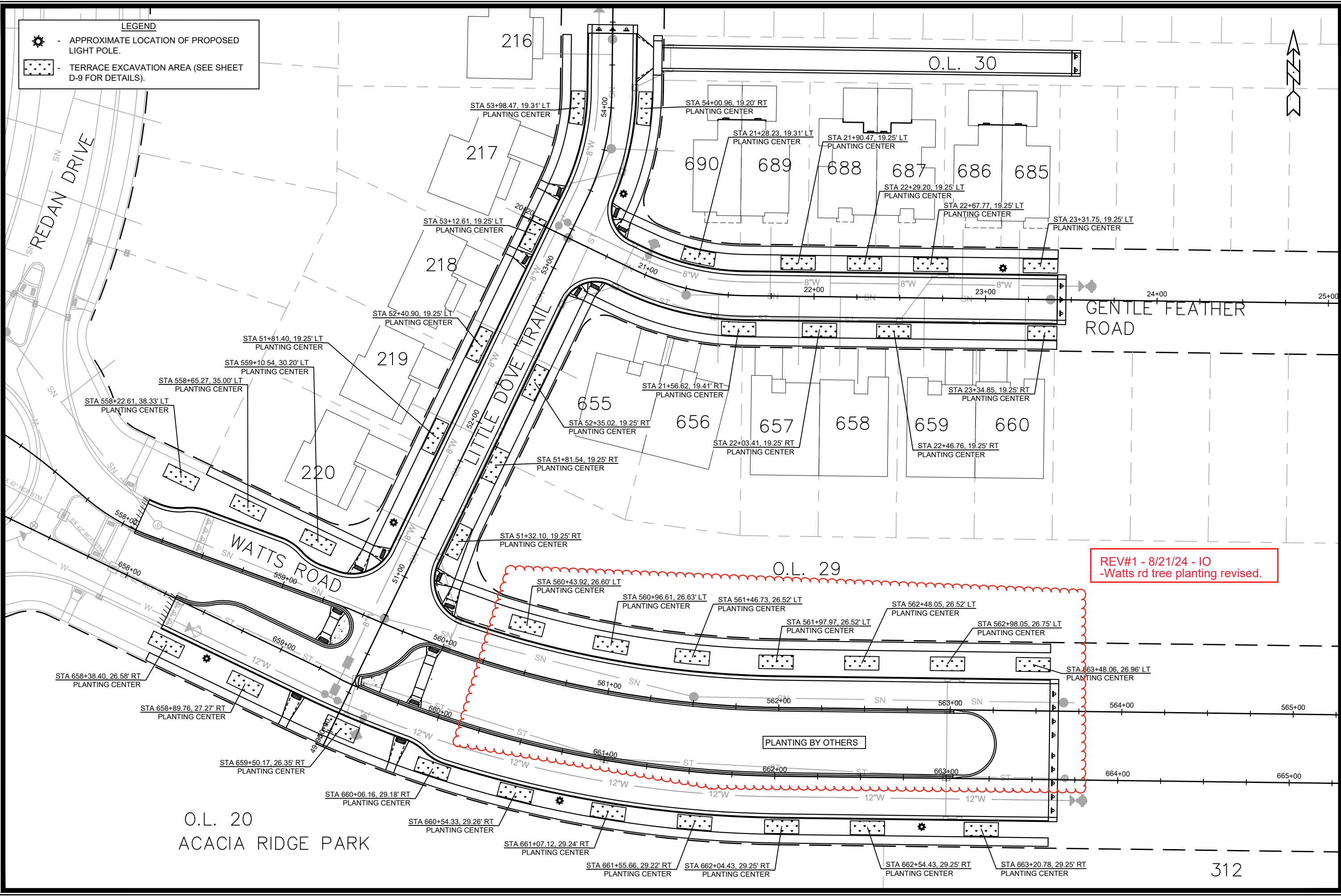


14928

W-6

LEGEND

- APPROXIMATE LOCATION OF PROPOSED LIGHT POLE.
- TERRACE EXCAVATION AREA (SEE SHEET D-9 FOR DETAILS).



REV#1 - 8/21/24 - IO
-Watts rd tree planting revised.

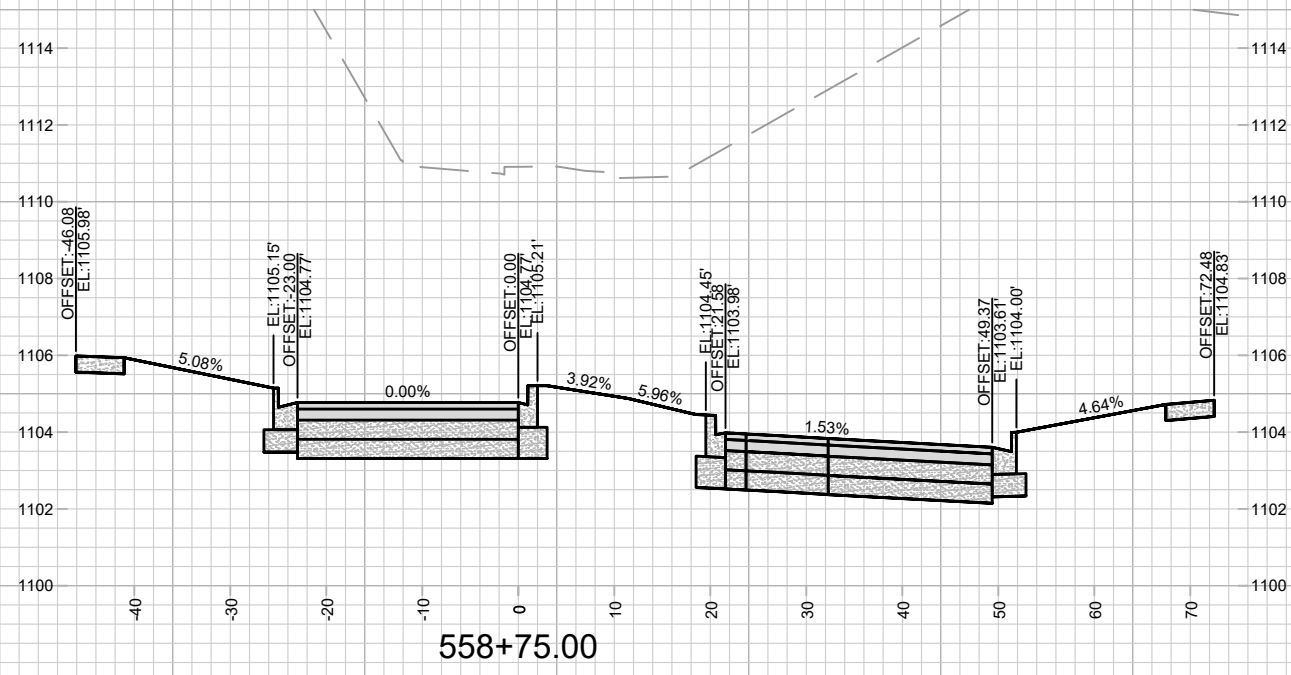
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MARK	REVISION	DATE	BY
DESIGNED BY	DATE	SCALE	
14928	8/21/2024 12:52 PM	1:50	L-1

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MADISON, WI
CONTRACT NO: 9379

LANDSCAPING PLAN
ACACIA RIDGE PHASE 11
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14928
L-1



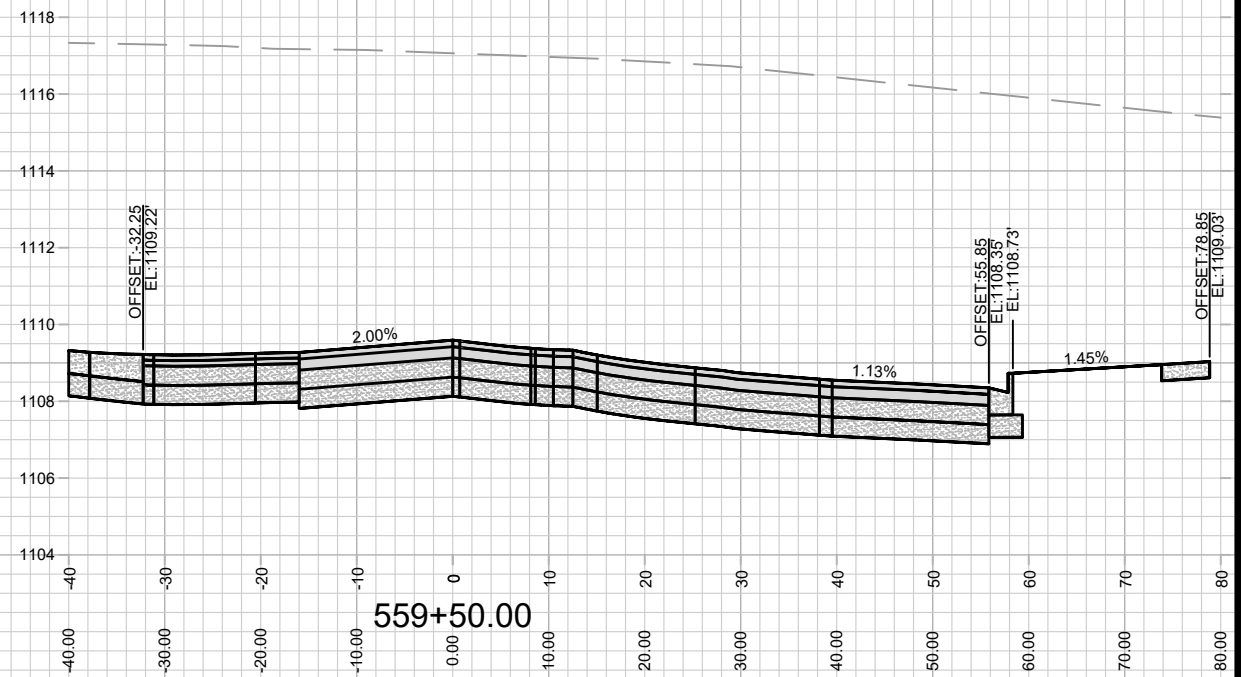
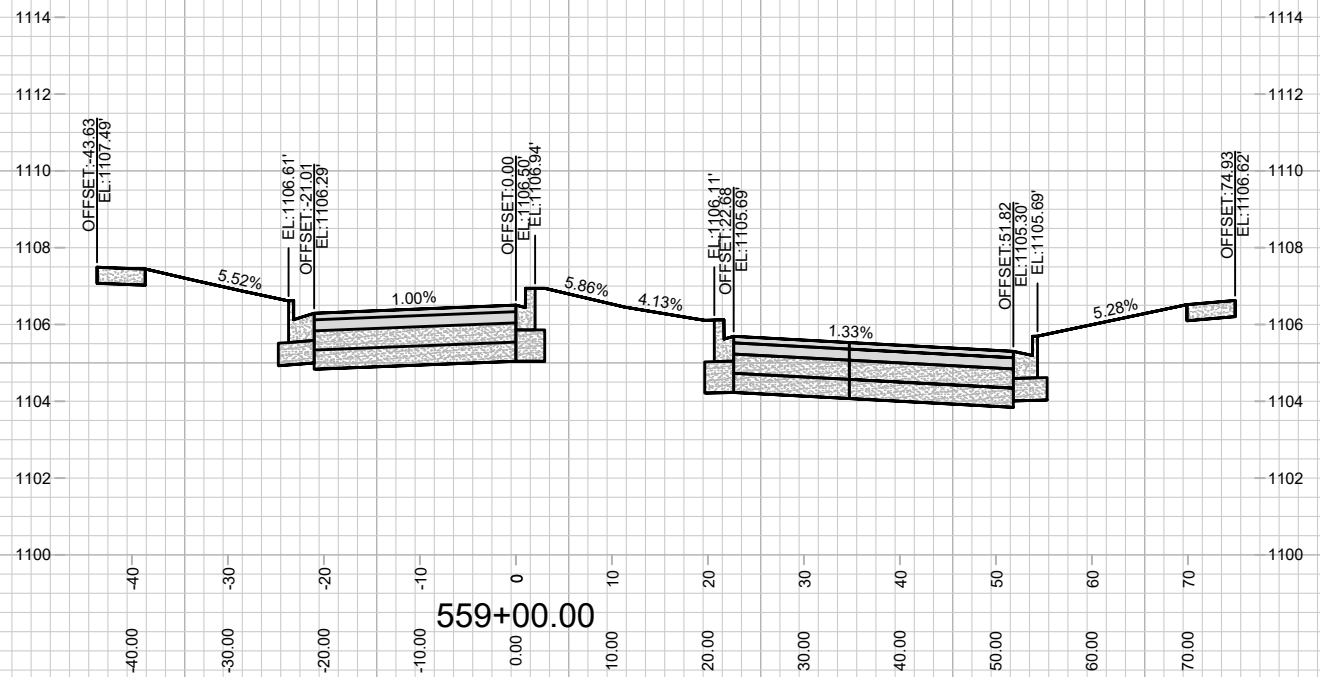
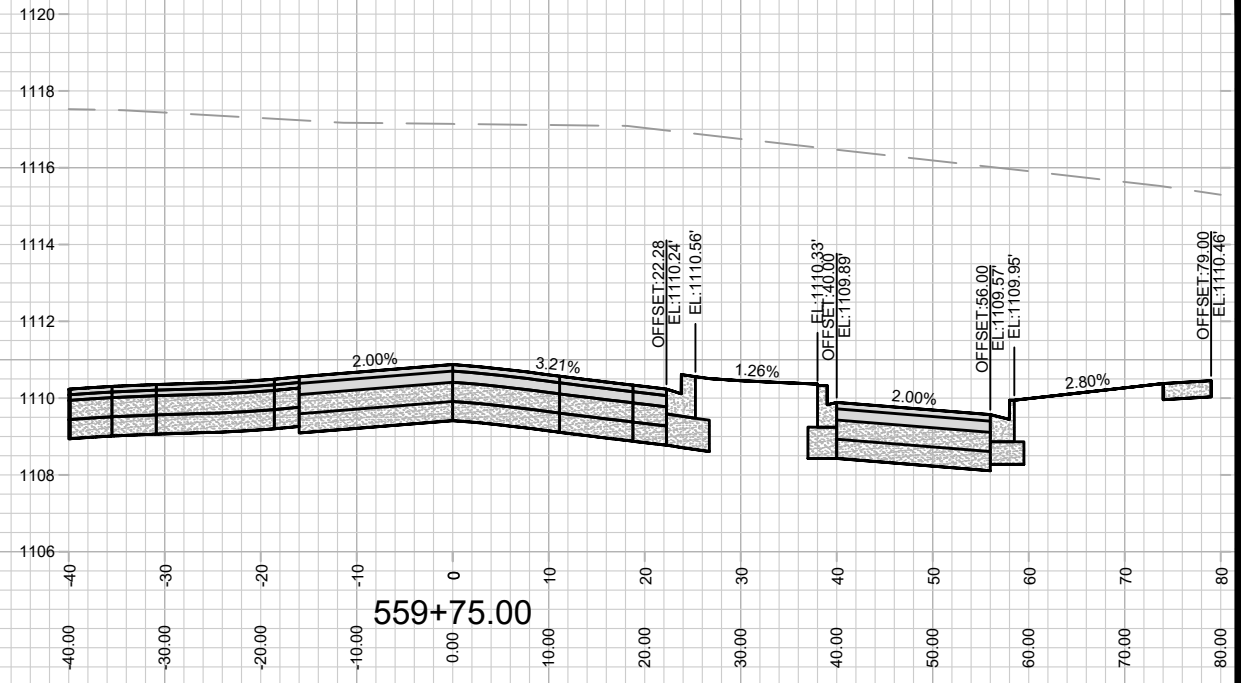
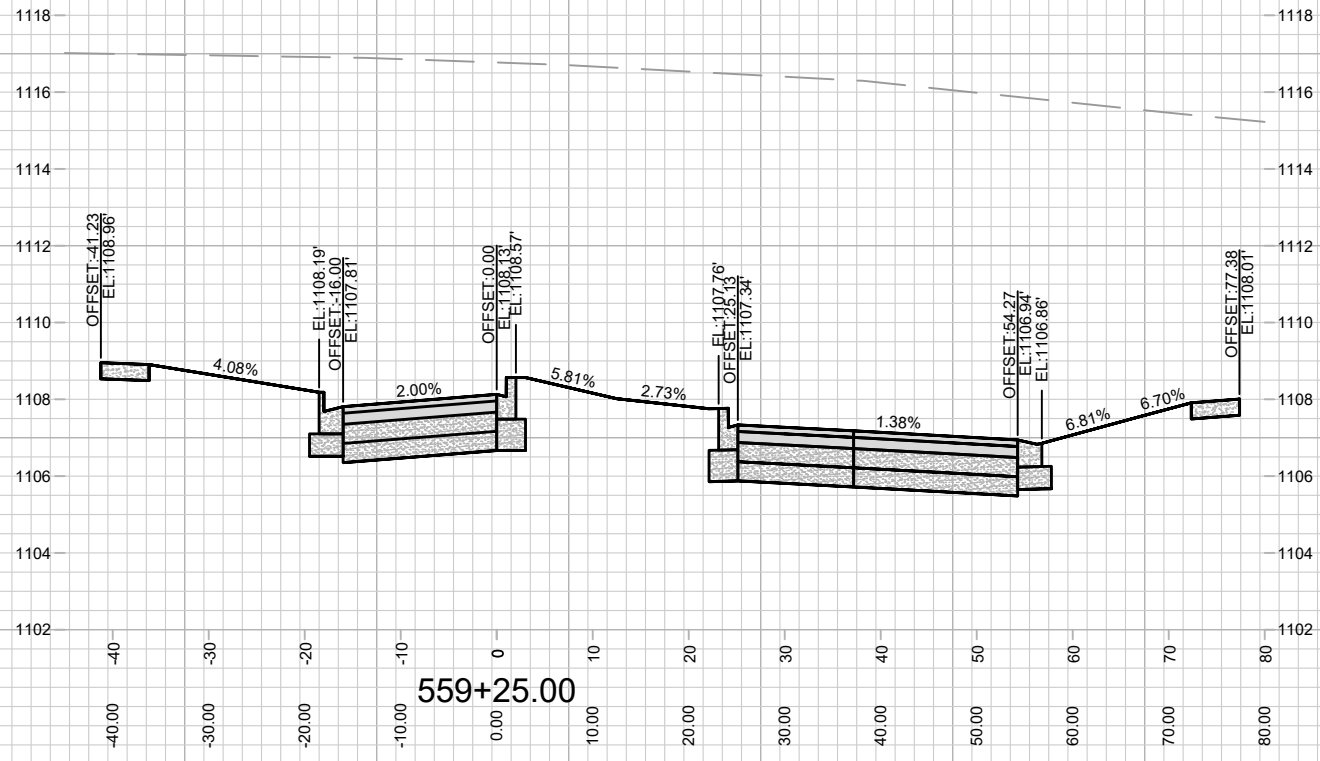
14928
X-1

CROSS SECTIONS - WATTS ROAD
ACACIA RIDGE PHASE 11

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MADISON, WI
CONTRACT NO: 9379

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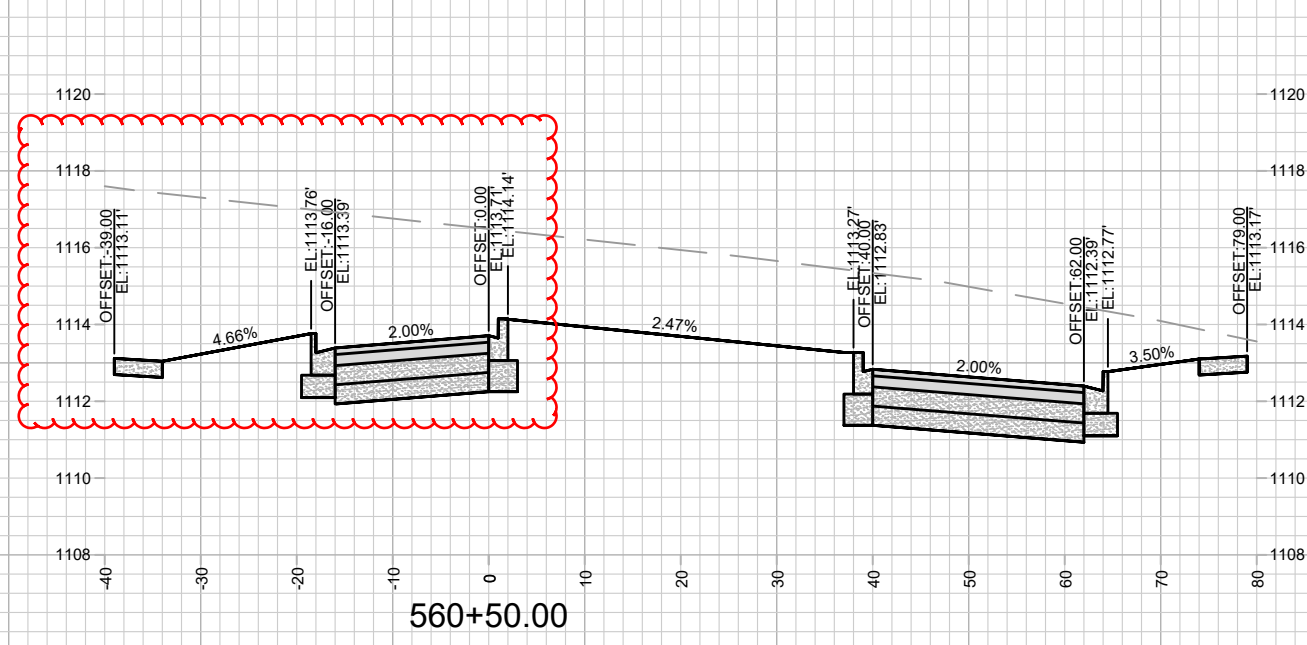
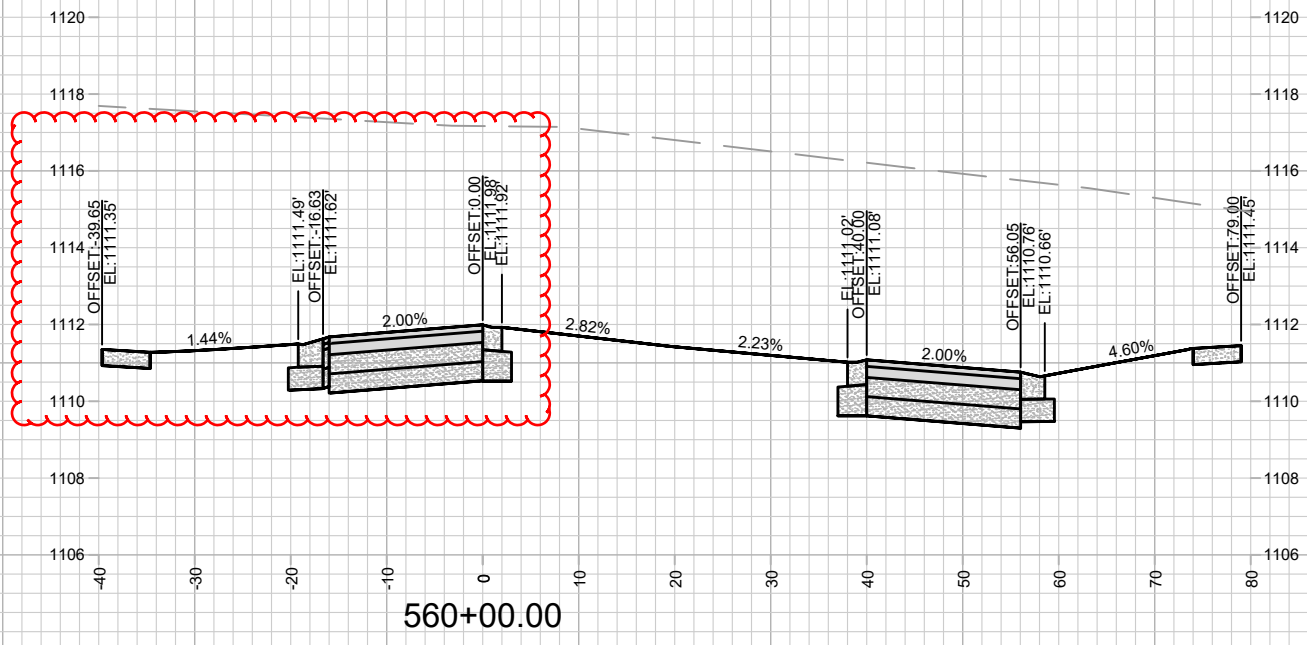
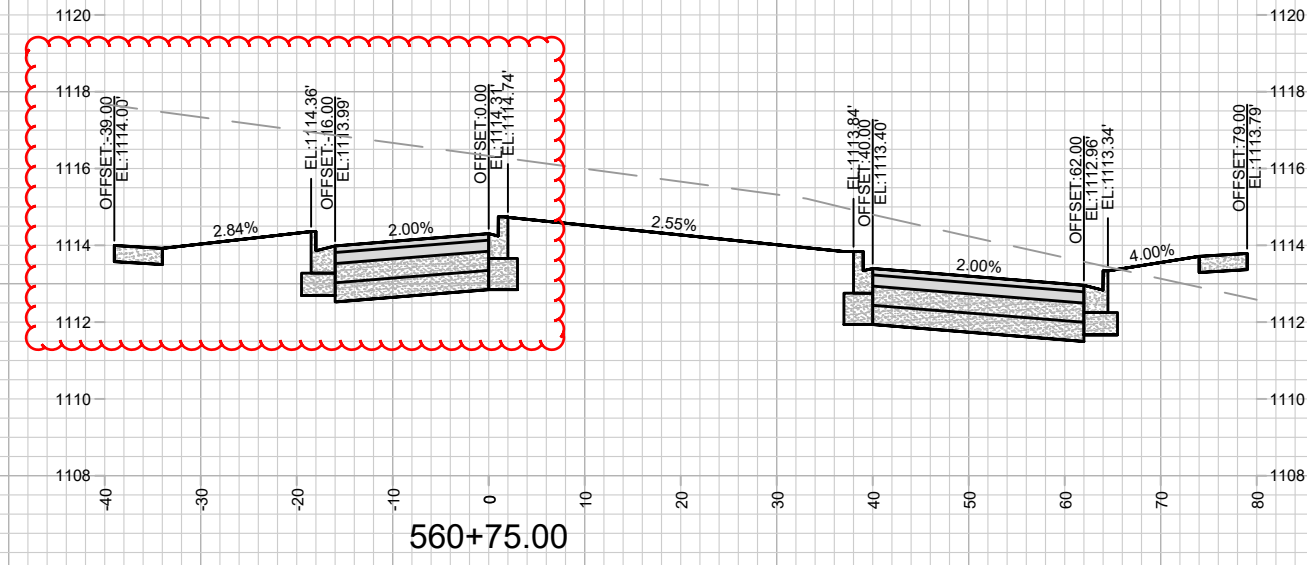
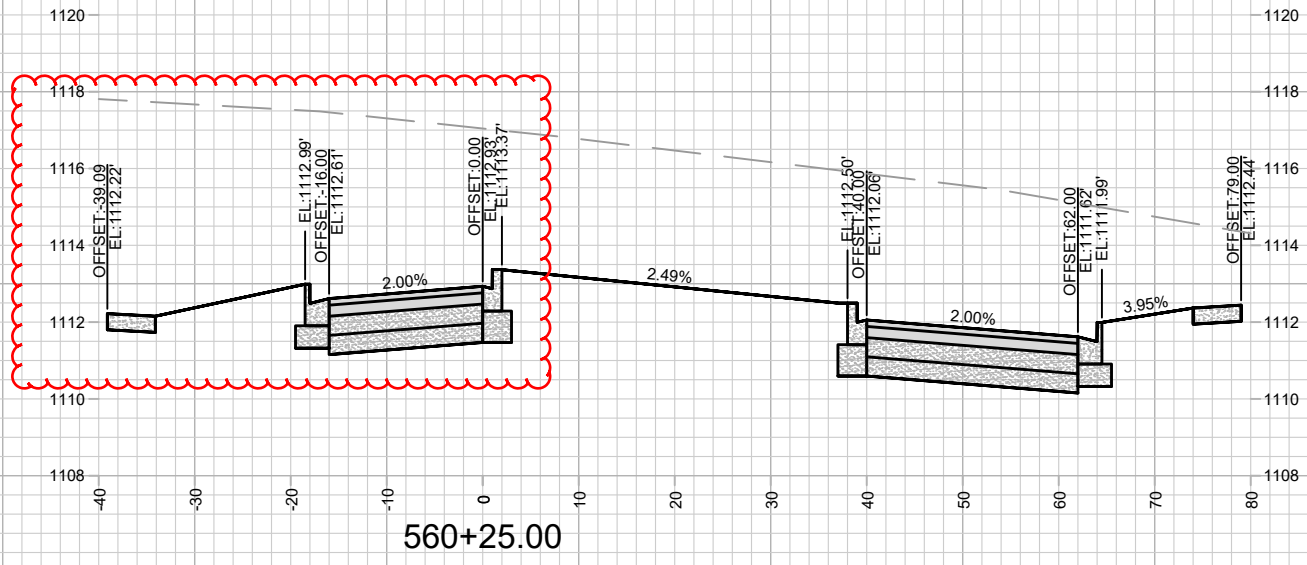
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MADISON, WI
9379
CONTRACT NO:

CROSS SECTIONS - WATTS ROAD
ACACIA RIDGE PHASE 11
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14928
X-2

REV#1 - 8/21/24 - IO
 -Watts rd (WB) pavement width revised.



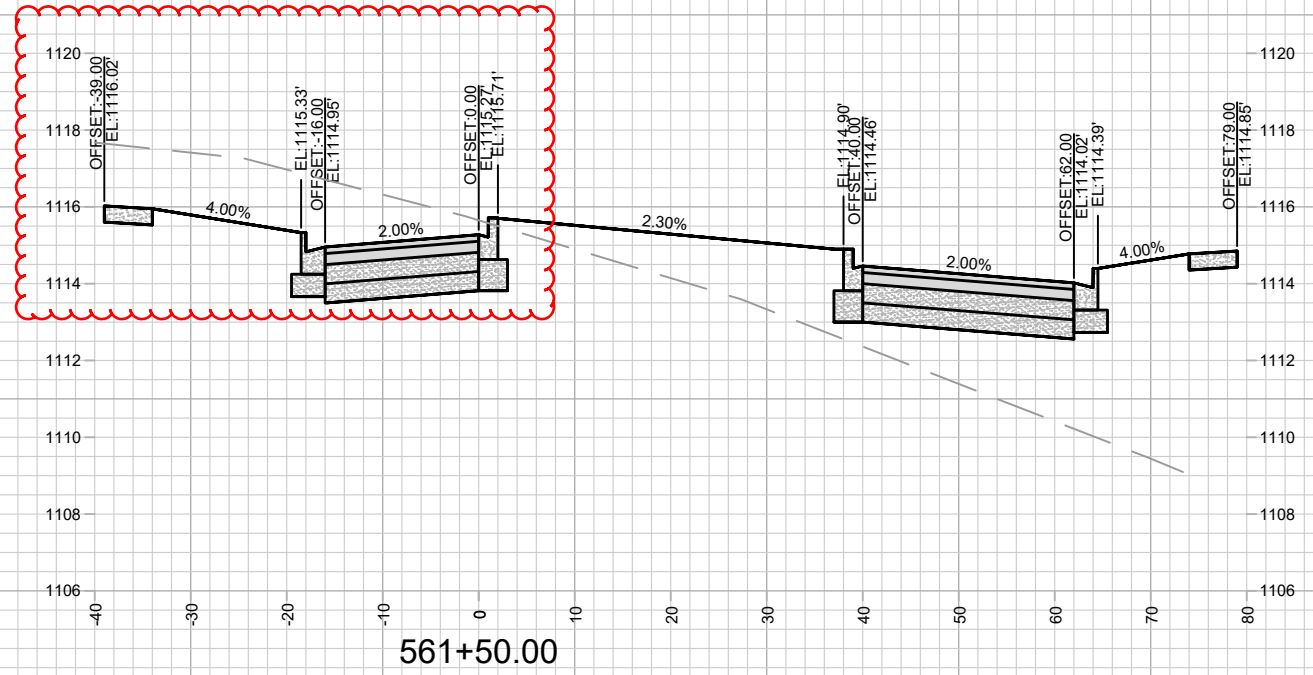
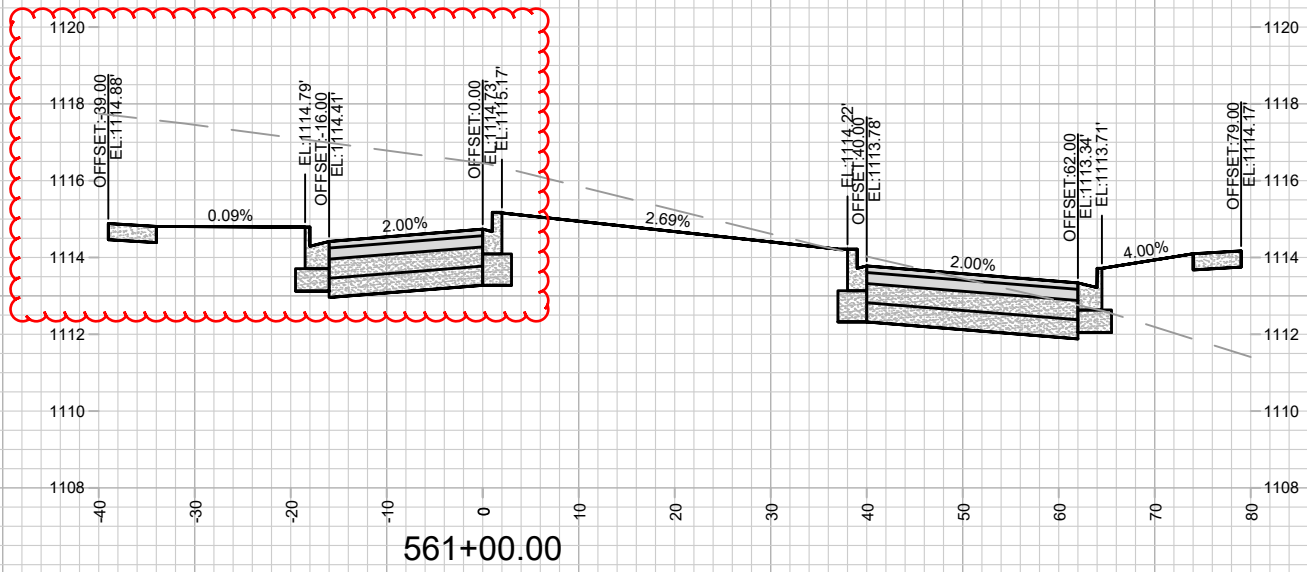
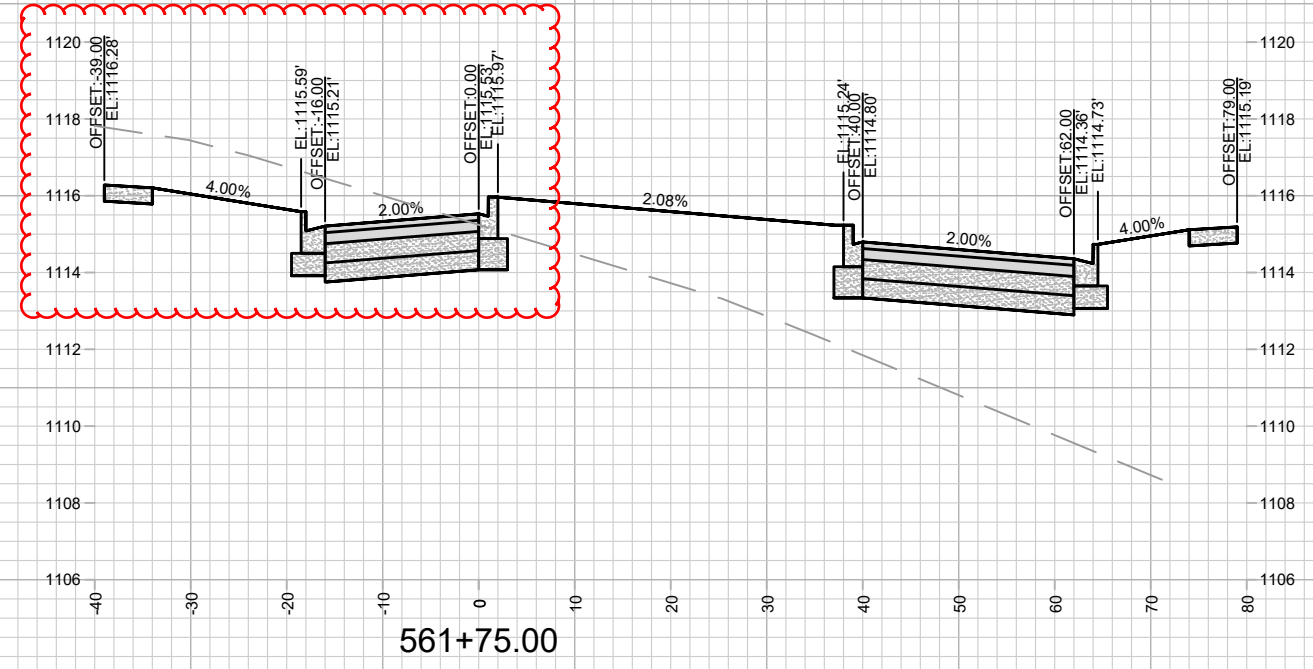
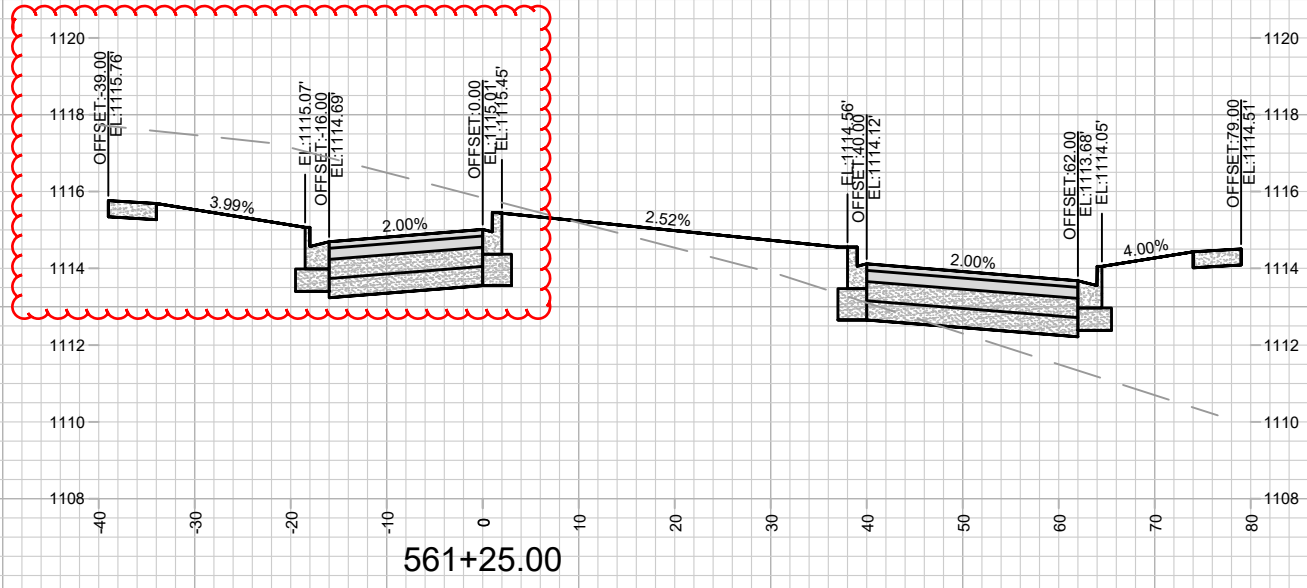
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 14928 X-3

14928
 MADISON, WI
 CONTRACT NO: 9379

CROSS SECTIONS - WATTS ROAD
 ACACIA RIDGE PHASE 11
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REV#1 - 8/21/24 - IO
 -Watts rd (WB) pavement width revised.



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 14928
 X-4

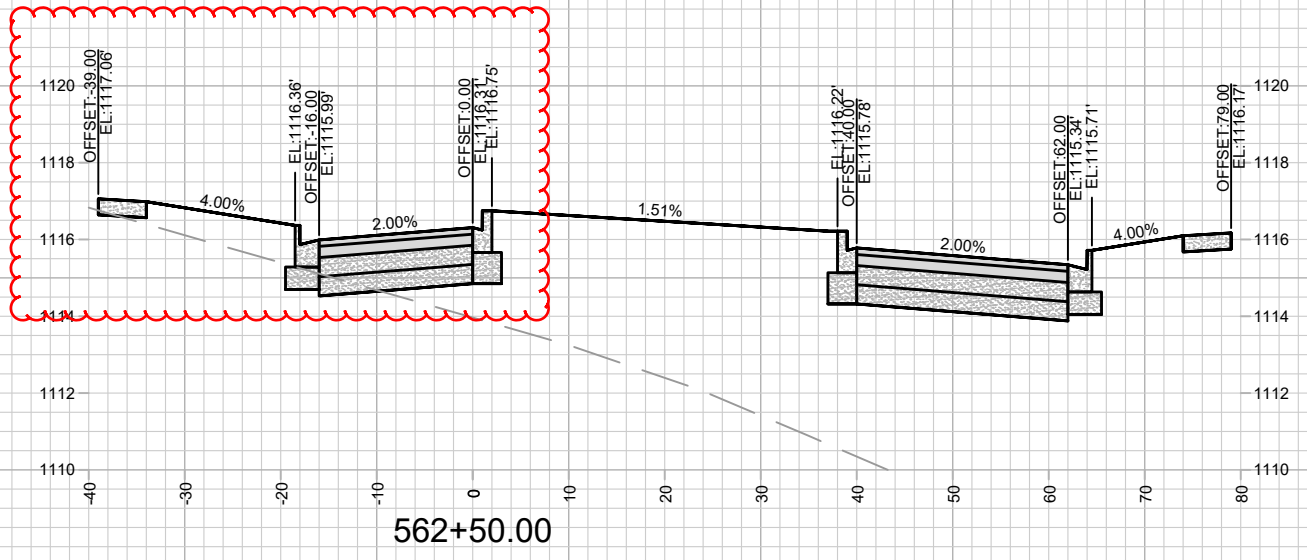
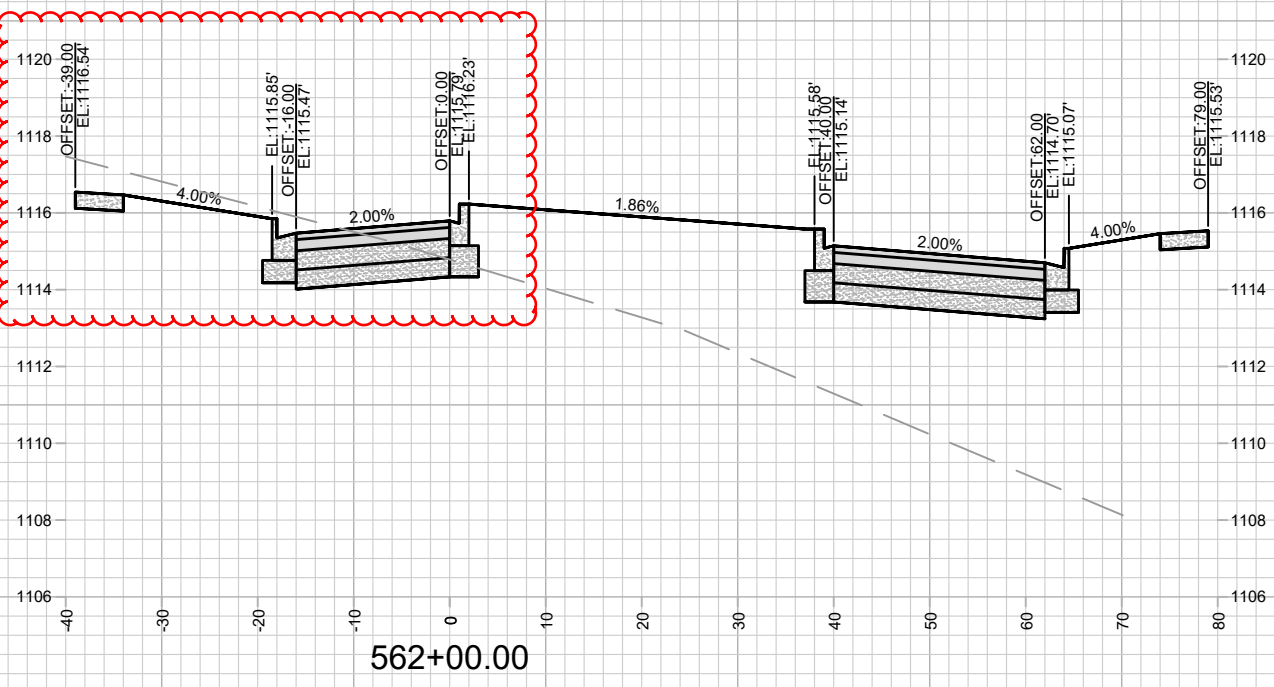
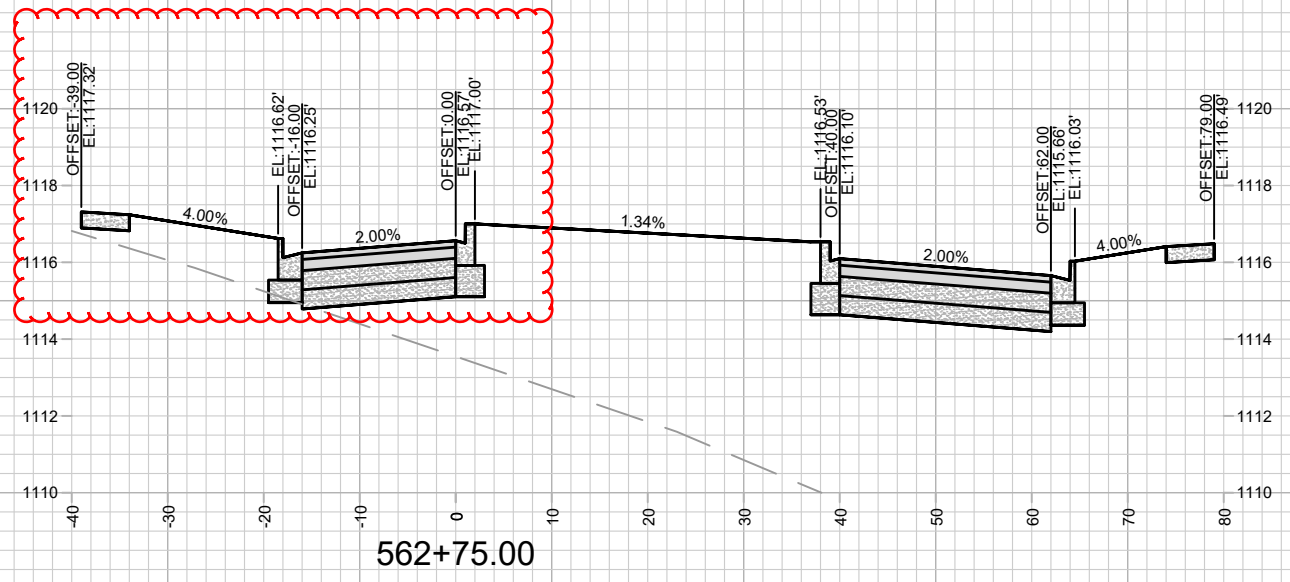
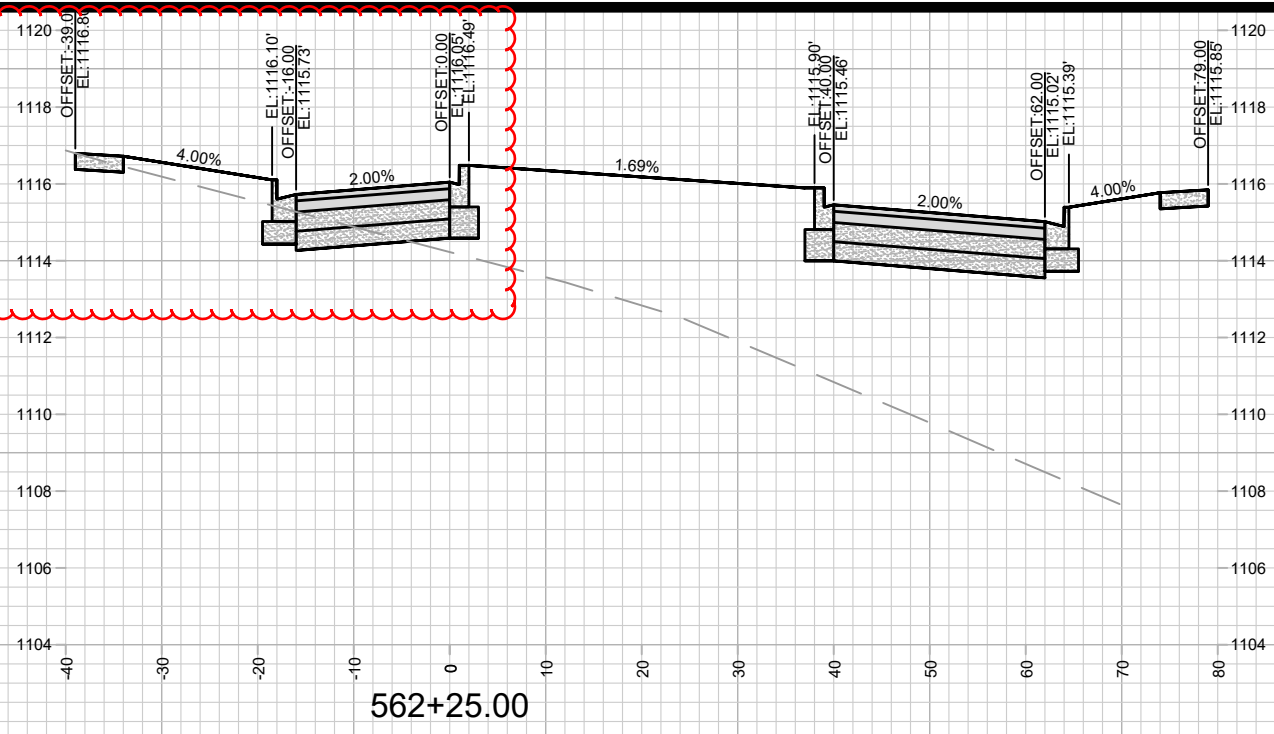
14928
 MADISON, WI
 CONTRACT NO: 9379

CROSS SECTIONS - WATTS ROAD
 ACACIA RIDGE PHASE 11
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14928
 X-4

REV#1 - 8/21/24 - IO
 -Watts rd (WB) pavement width revised.



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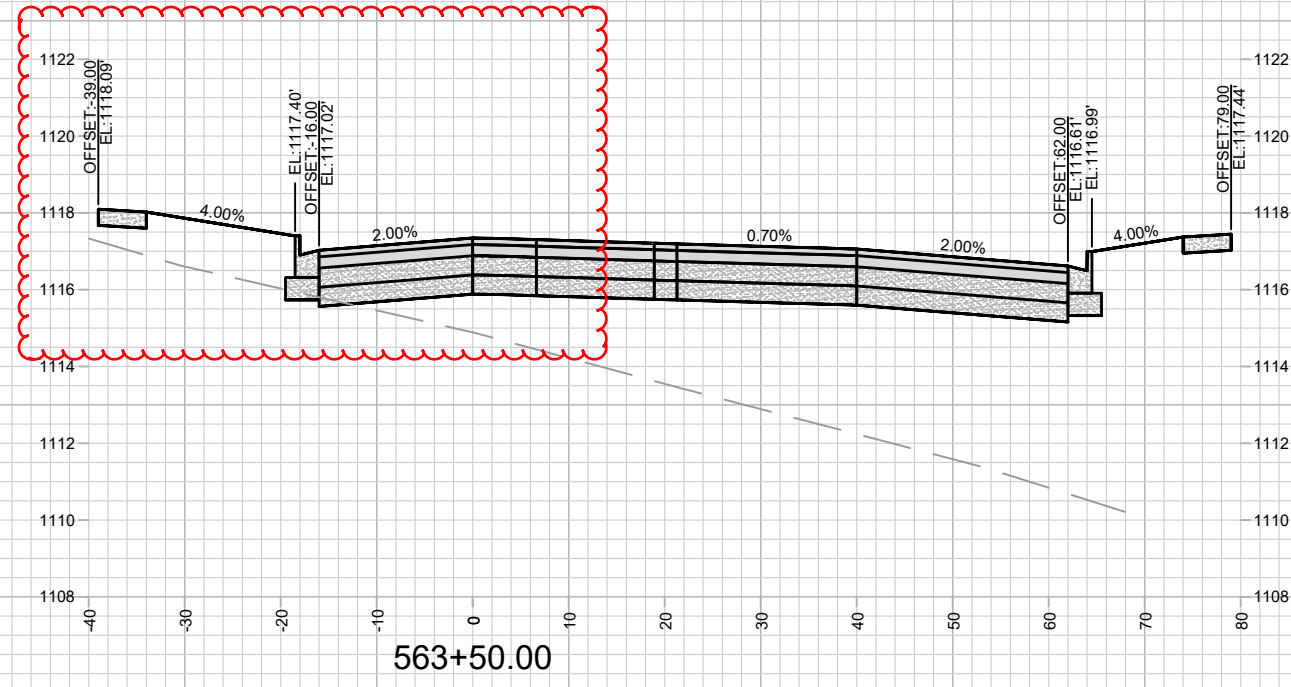
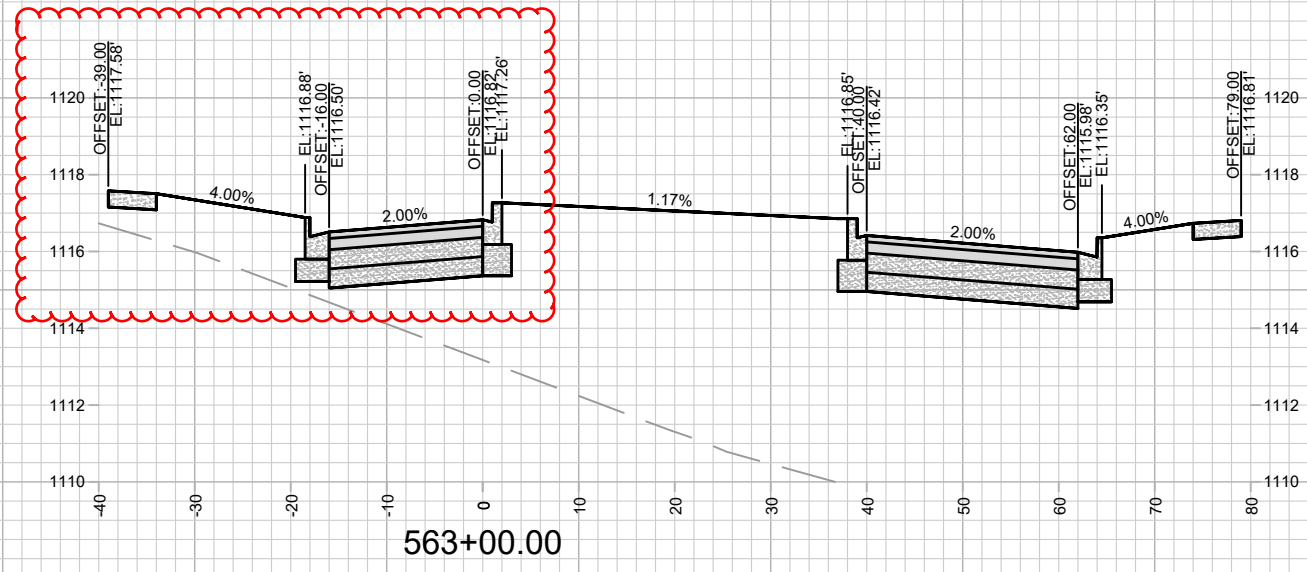
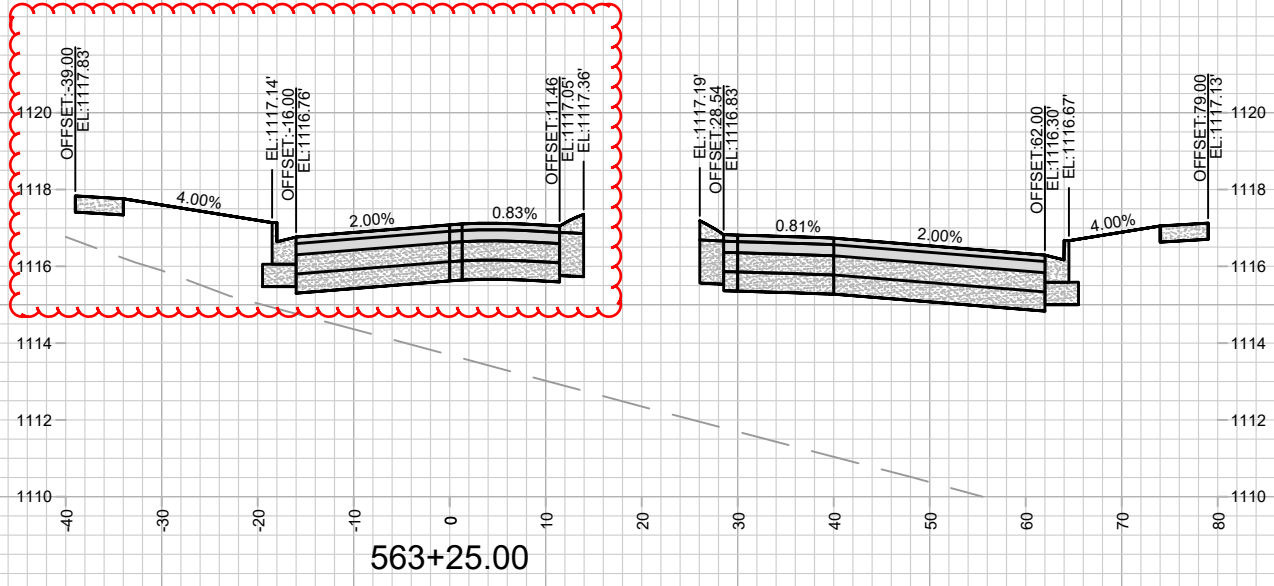
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 MADISON, WI
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CROSS SECTIONS - WATTS ROAD
 ACACIA RIDGE PHASE 11
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14928
 X-5

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 -Watts rd (WB) pavement width revised.

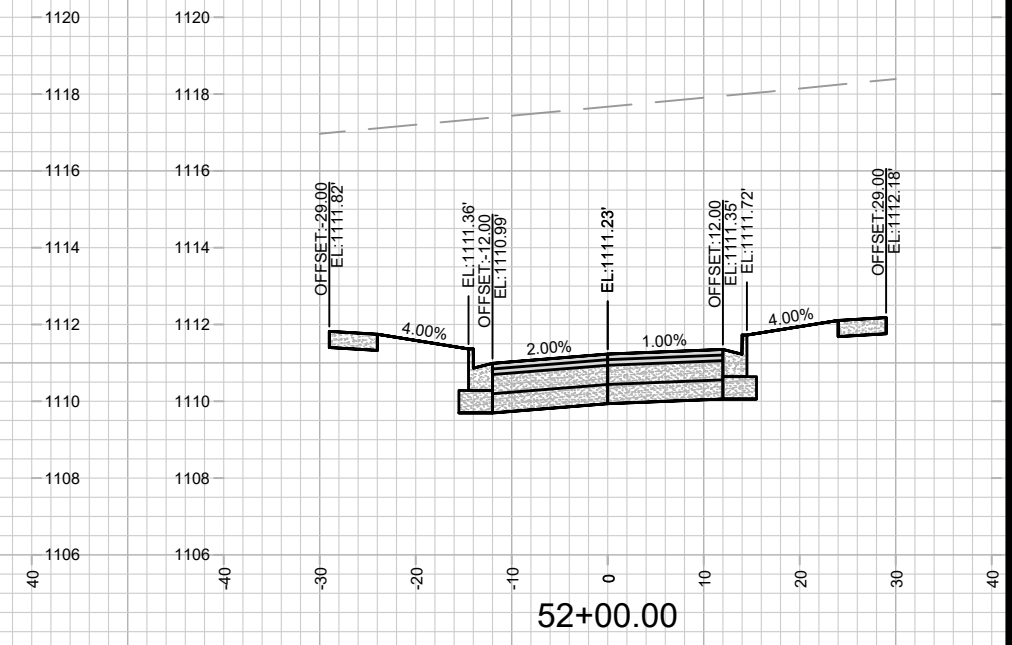
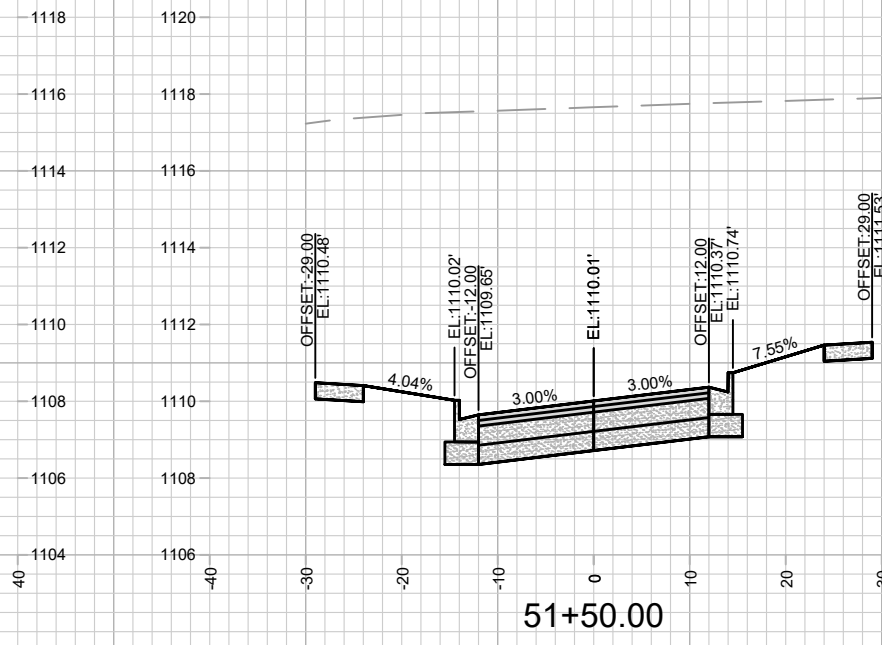
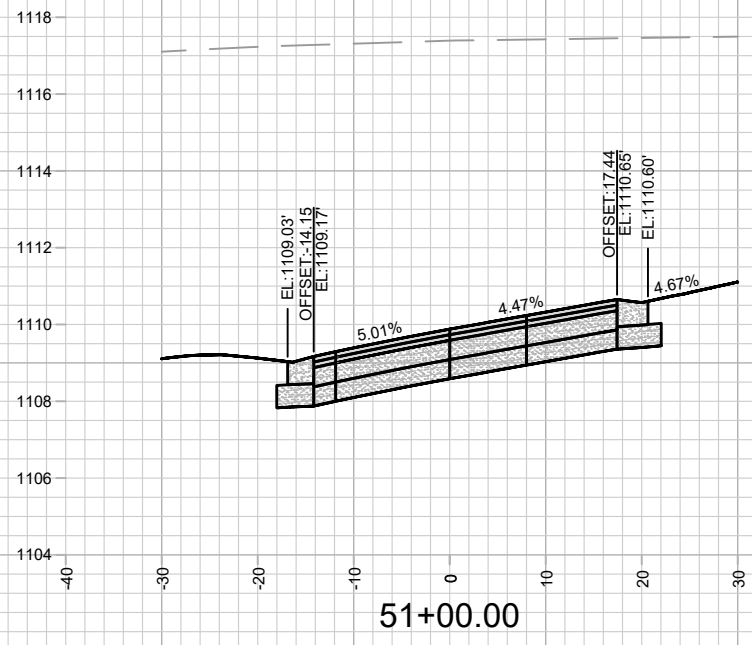
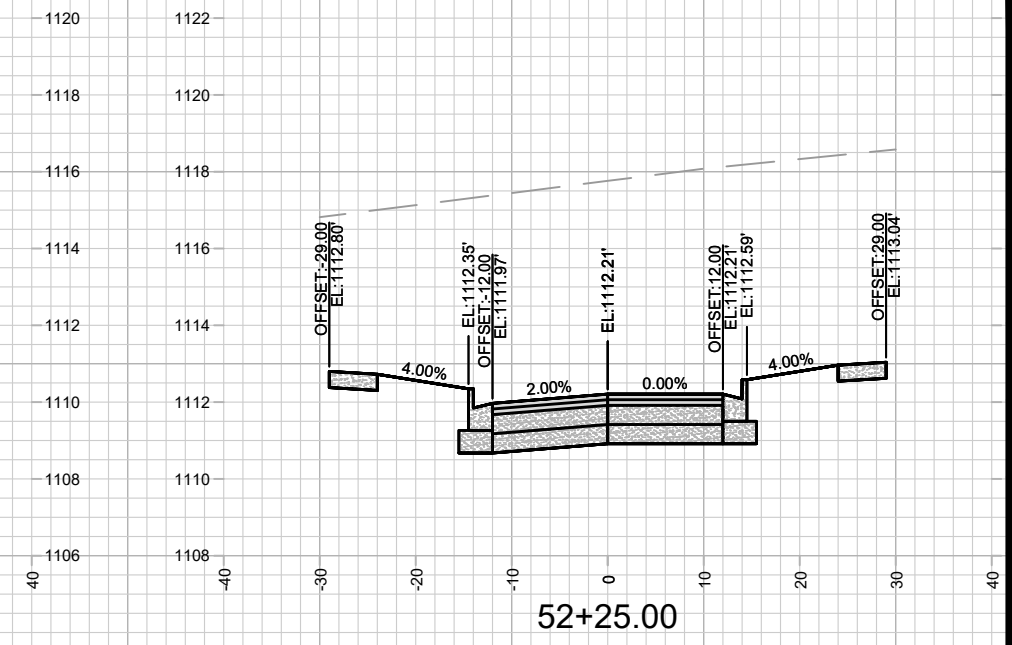
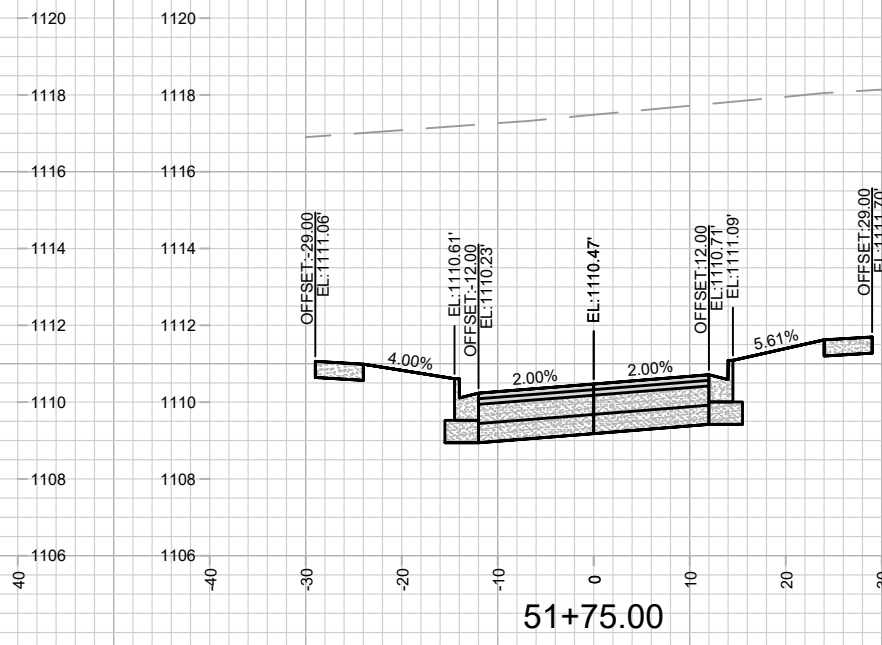


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 MADISON, WI
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CROSS SECTIONS - WATTS ROAD
 ACACIA RIDGE PHASE 11
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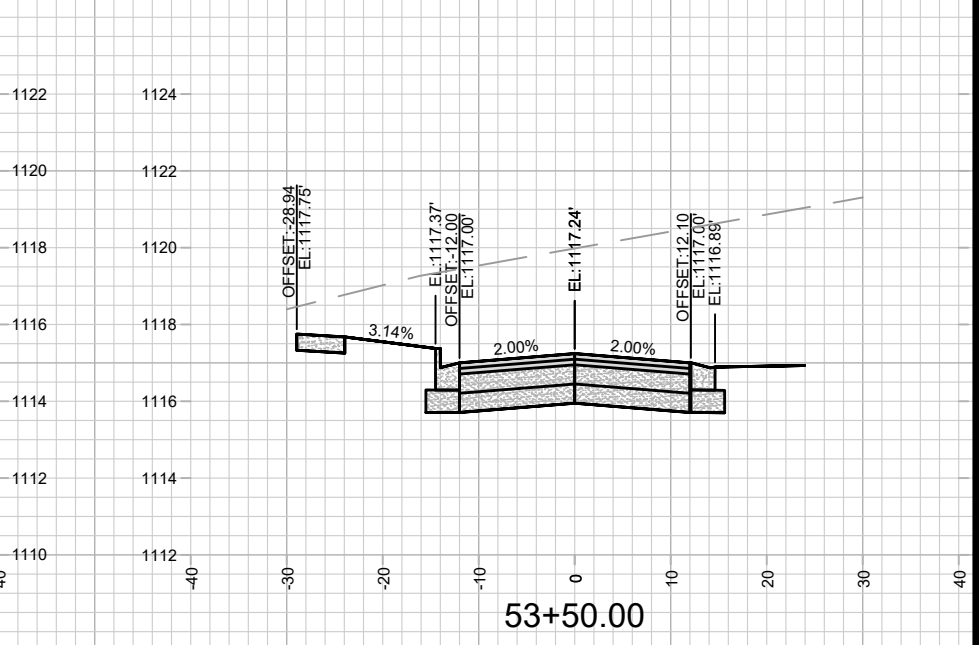
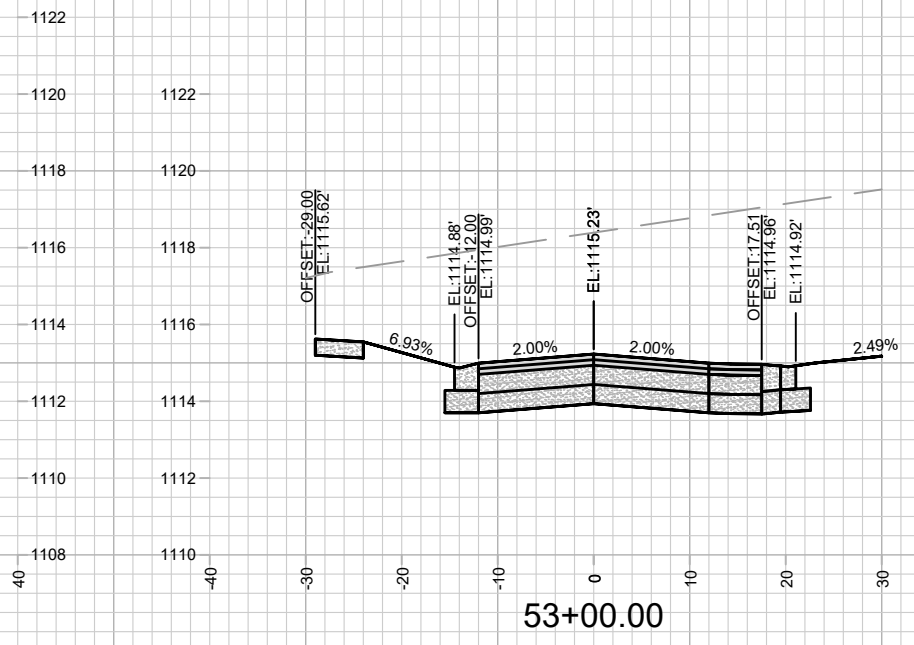
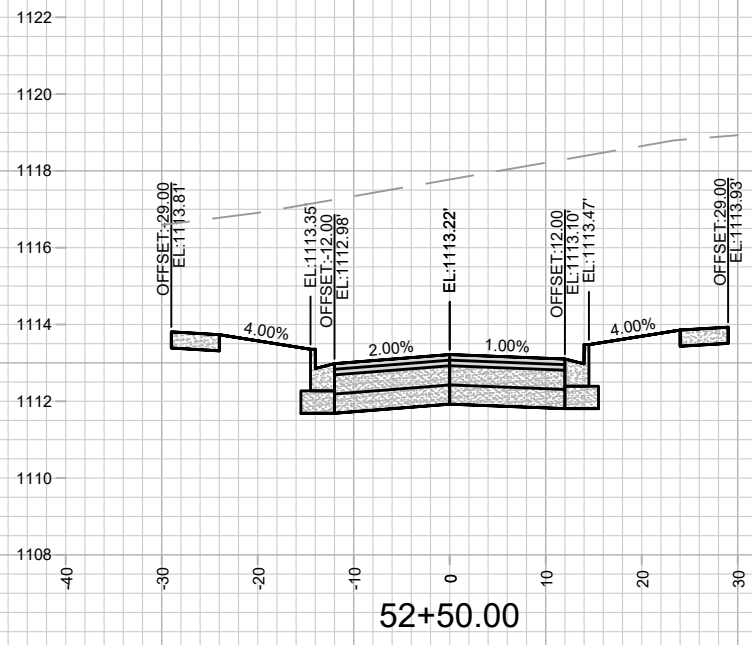
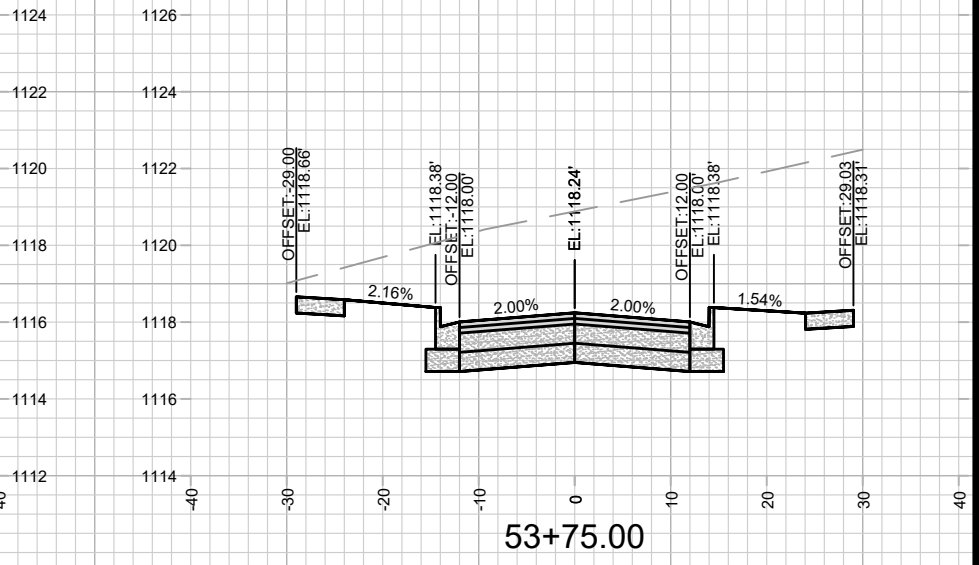
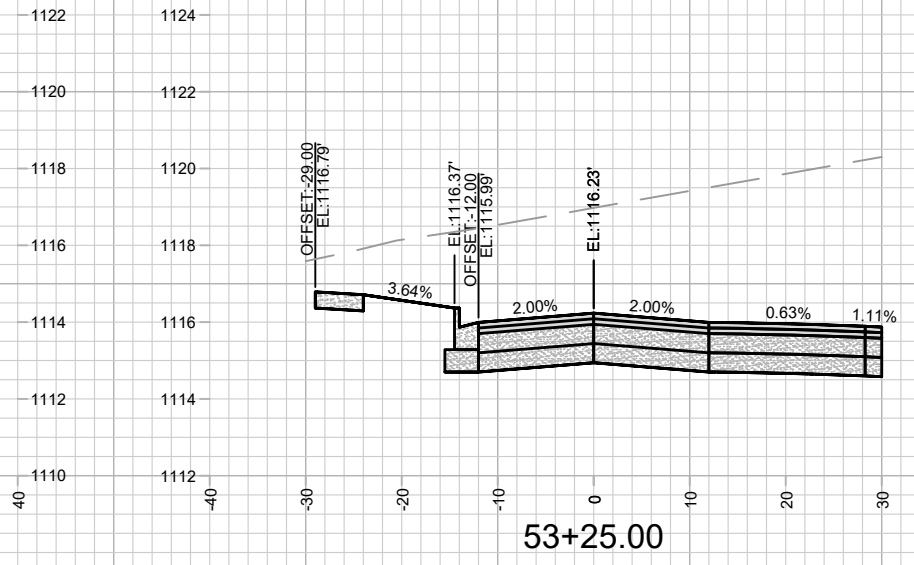
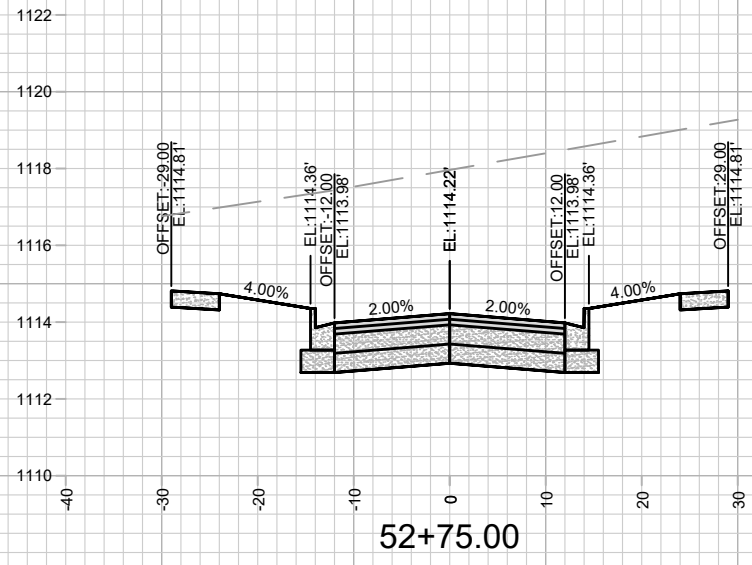
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MADISON, WI
9379
CONTRACT NO:

CROSS SECTIONS - LITTLE DOVE TRAIL
ACACIA RIDGE PHASE 11
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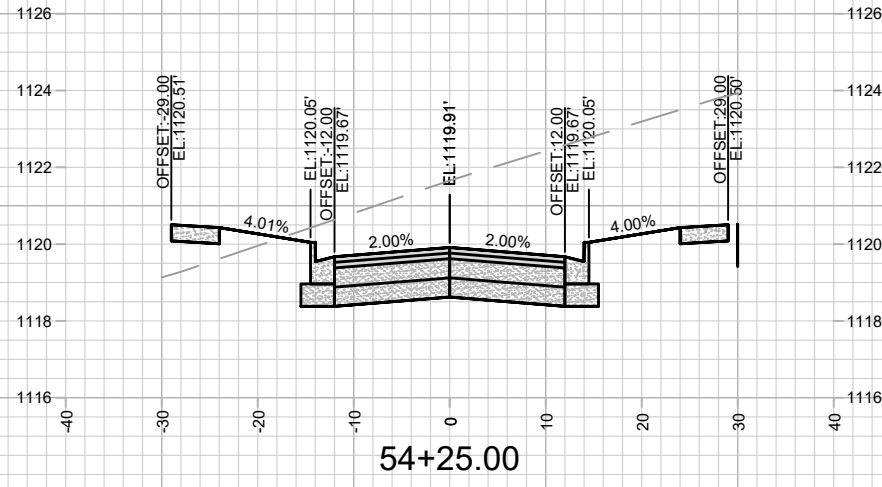
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 MADISON, WI
 9379
 CONTRACT NO.:

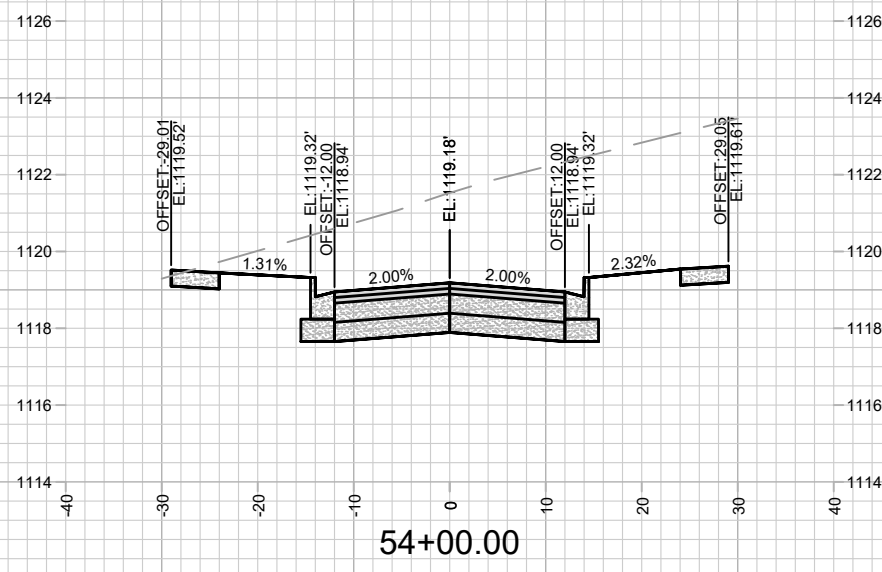
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 ACACIA RIDGE PHASE 11
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54+25.00



54+00.00

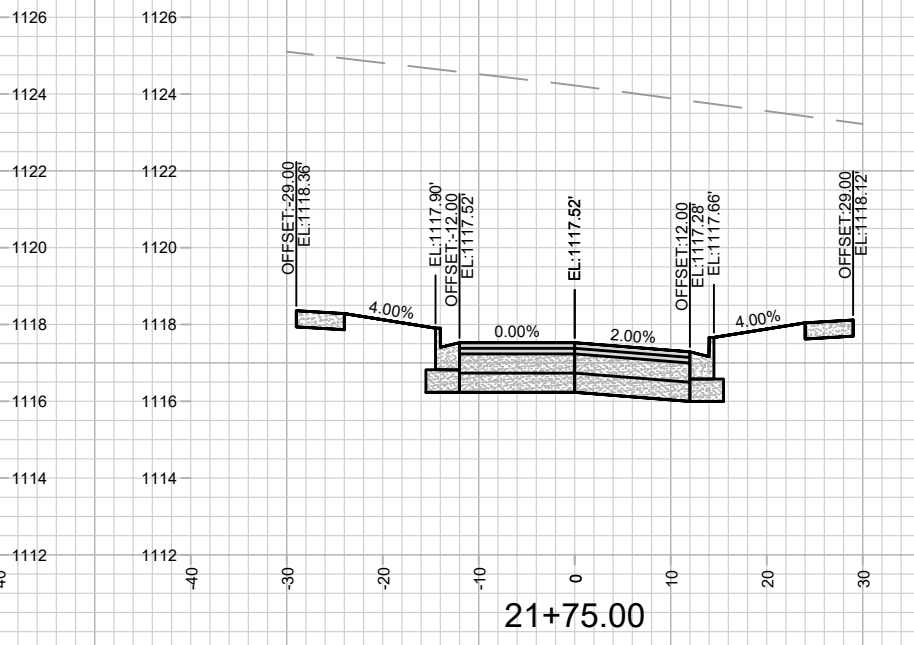
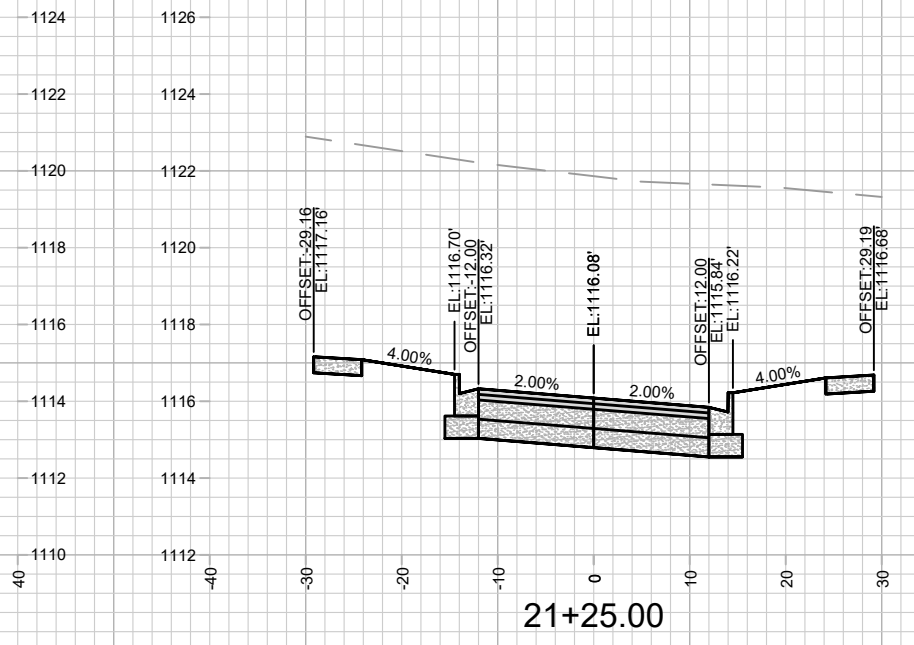
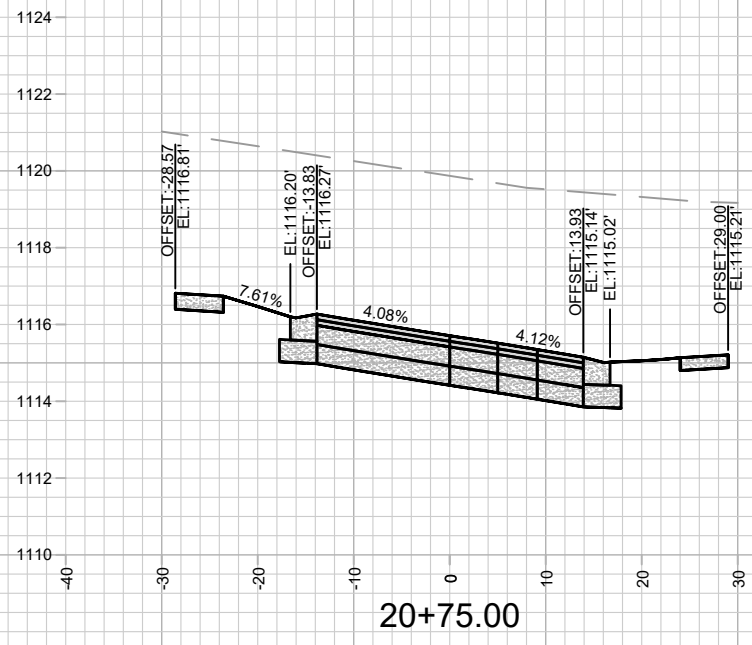
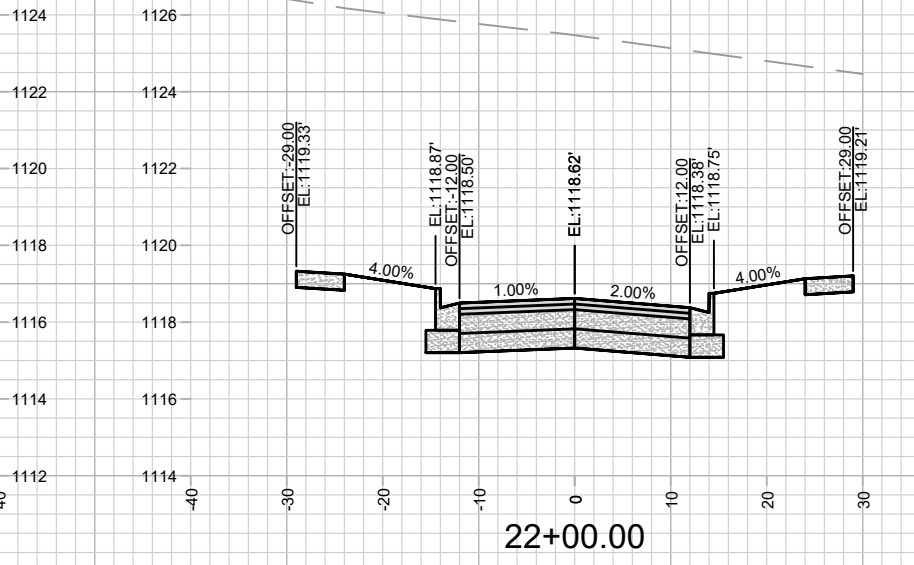
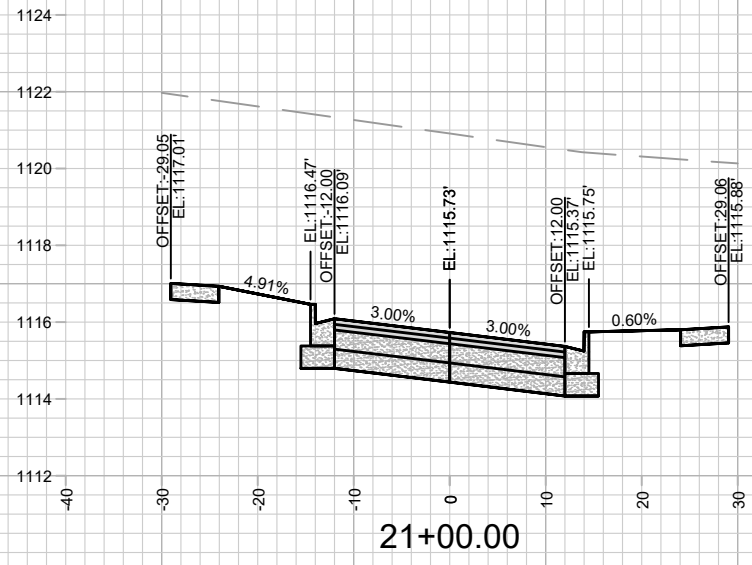
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CROSS SECTIONS - LITTLE DOVE TRAIL
ACACIA RIDGE PHASE 11
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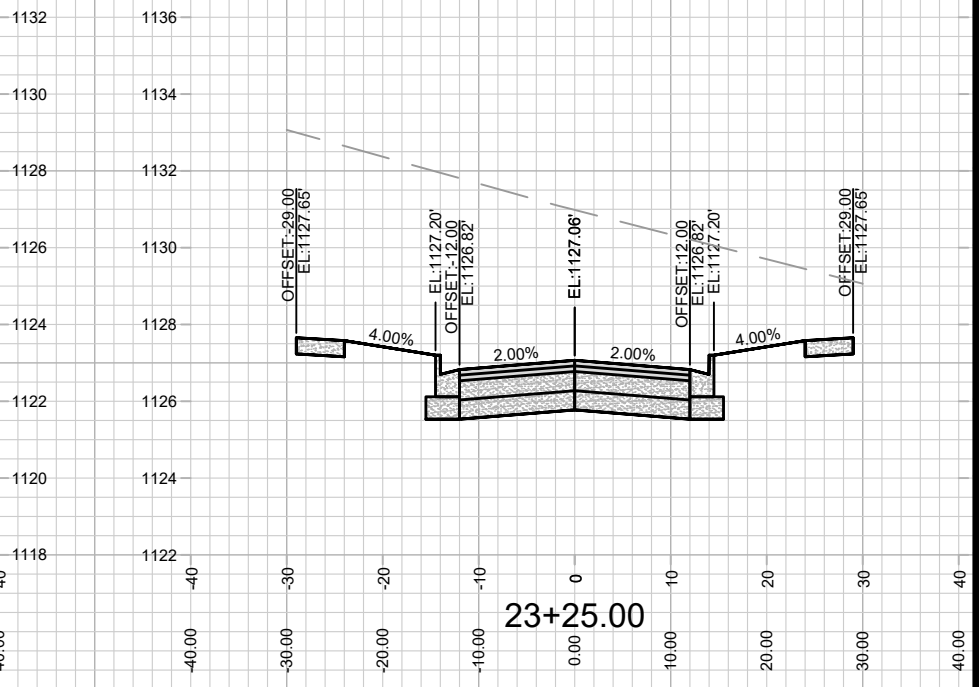
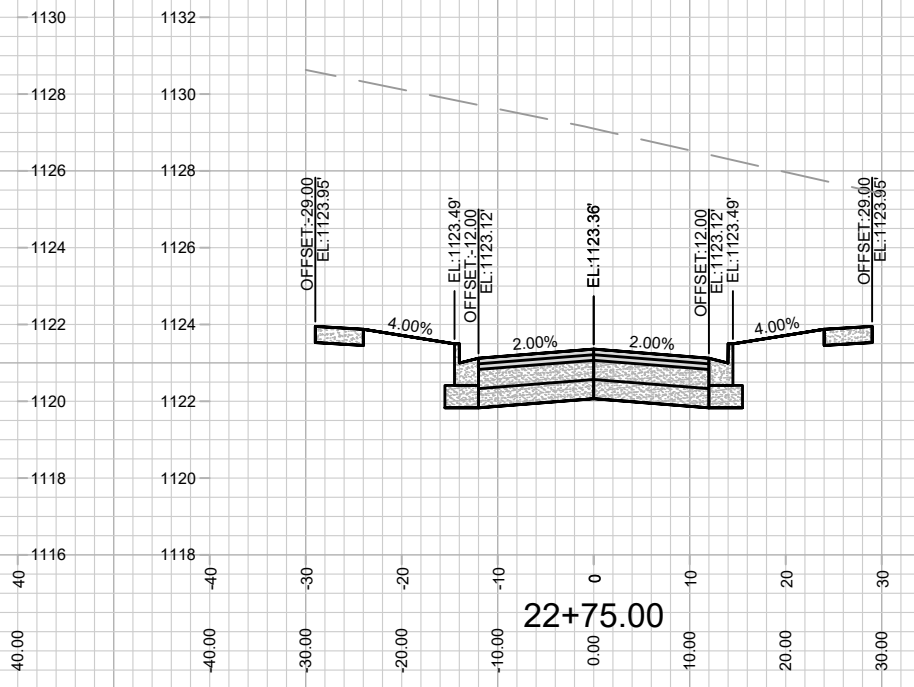
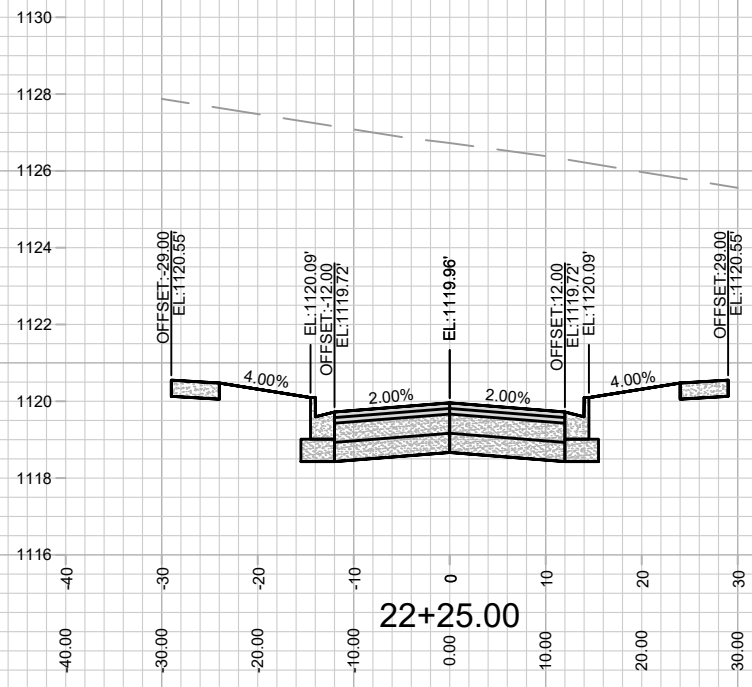
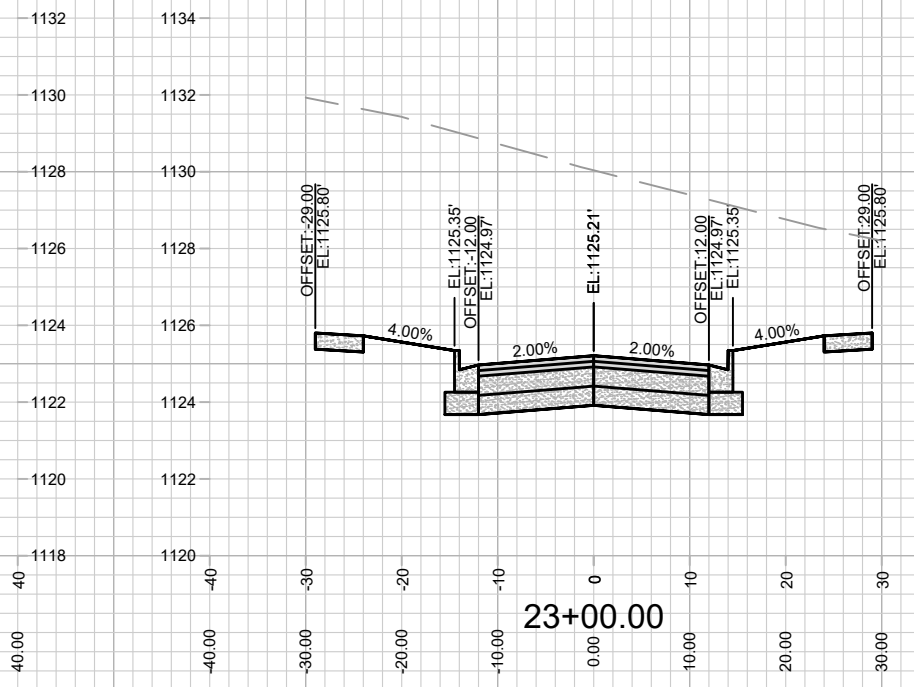
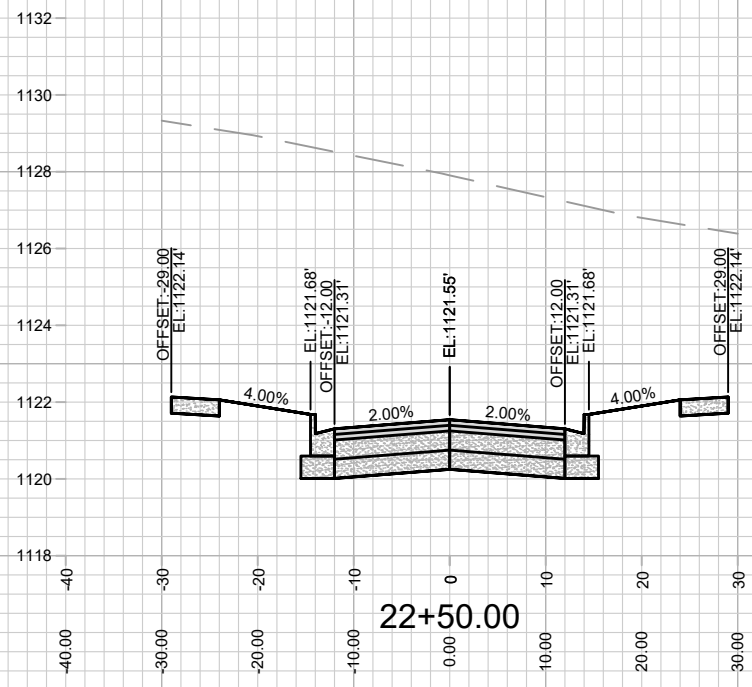
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14928
MADISON, WI
9379
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CROSS SECTIONS - GENTLE FEATHER ROAD
ACACIA RIDGE PHASE 11
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CROSS SECTIONS - GENTLE FEATHER ROAD
ACACIA RIDGE PHASE 11
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X-11

MAINTENANCE LEGEND:

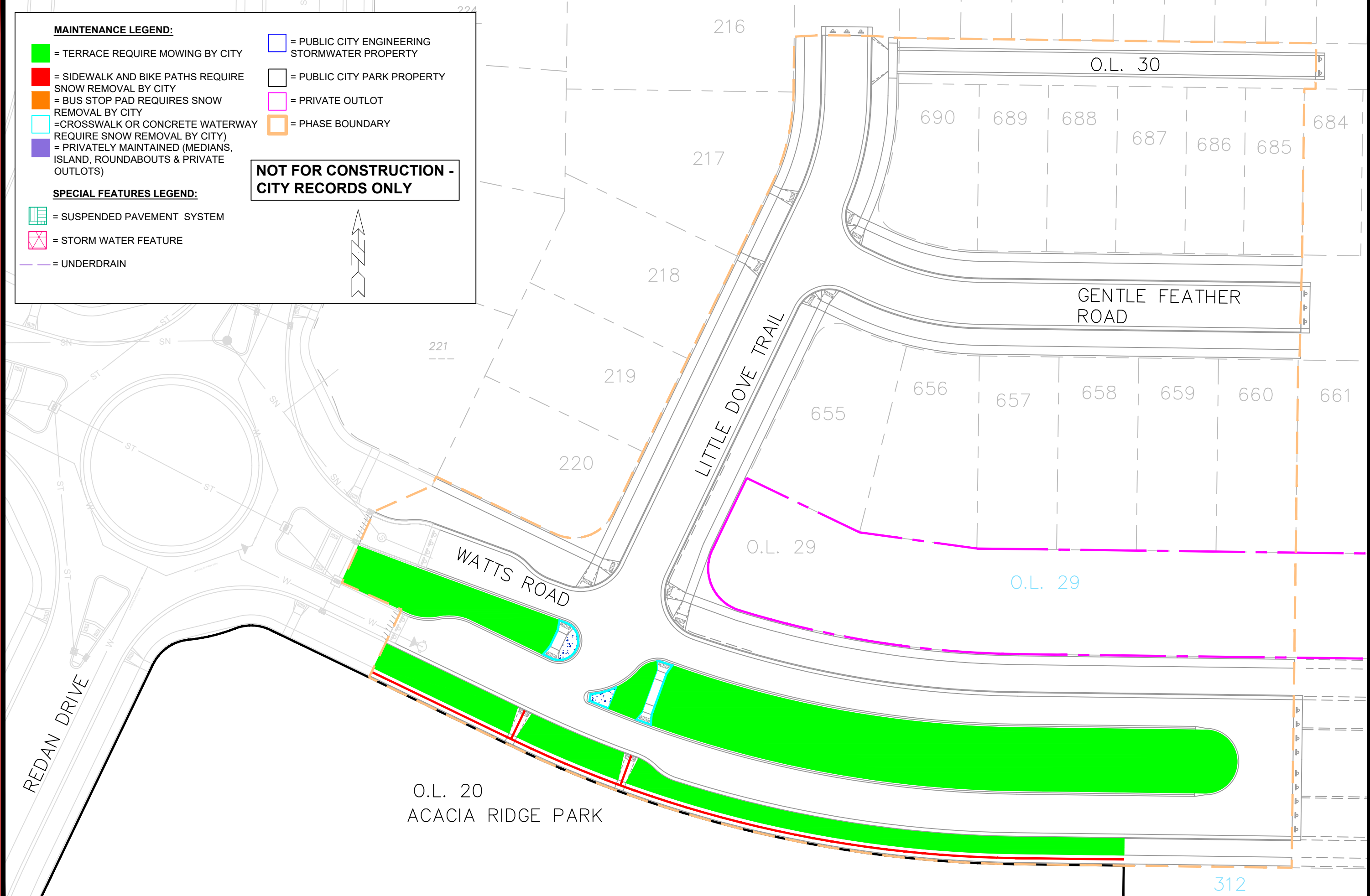
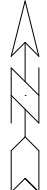
- = TERRACE REQUIRE MOWING BY CITY
- = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
- = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)

- = 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



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14928	11/26 AM	8/27/2024	MN-1

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