

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT
APPROVED

APPROVED DATE: MAY 5, 2020

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Greg Fries

Sep 8, 2020

City Engineer

Date

STREET
DESIGNED BY:



Sep 8, 2020

INDEX OF SHEETS

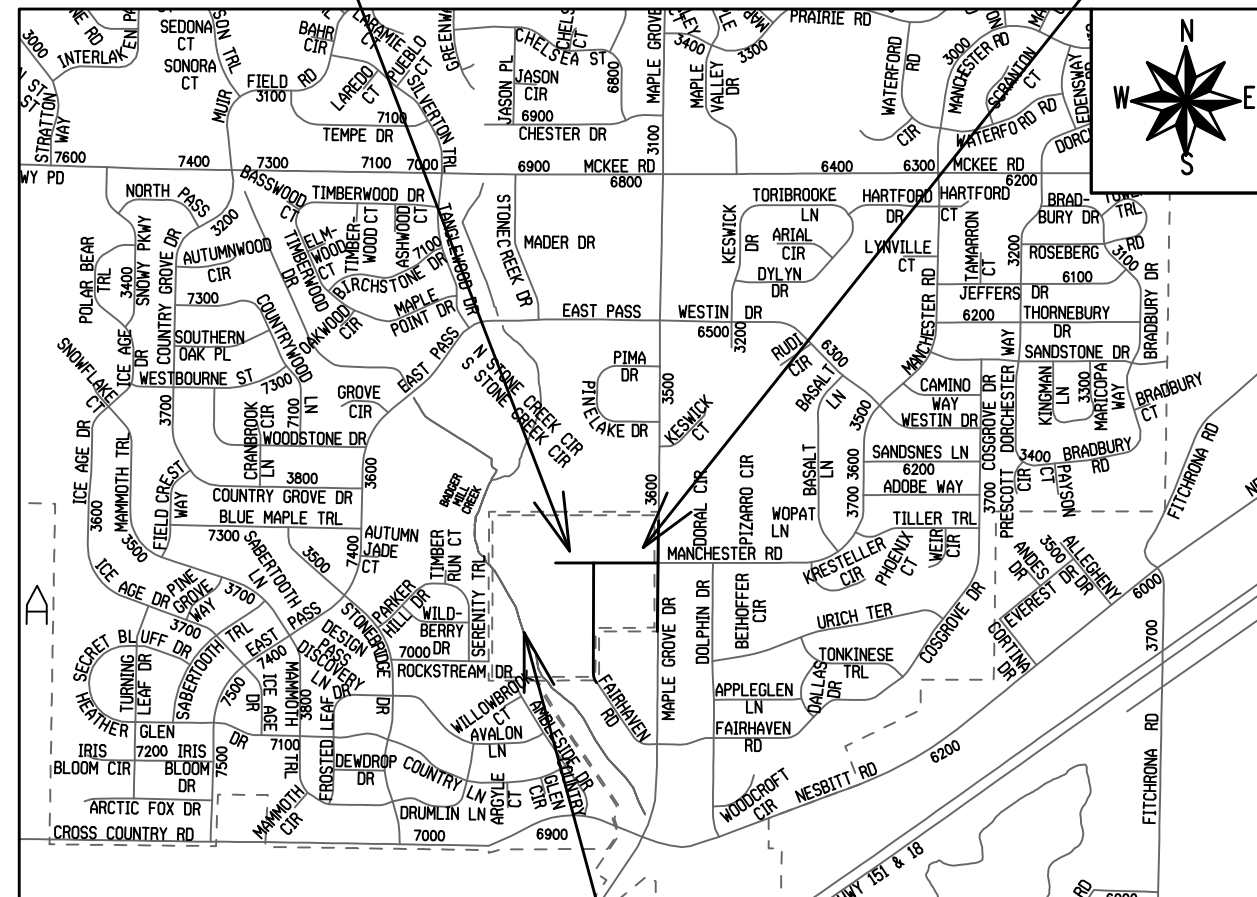
SHEET NO.	TITLE
1	TITLE
D1-D5	NOTES & TYPICAL SECTIONS
P1-P9	PLAN & PROFILE
U1-U10	UTILITY PLAN & PROFILE
U11	SANITARY SEWER SCHEDULE
U12-U13	STORM SEWER SCHEDULE
W1-W4	WATER PLAN & PROFILE
W5	WATER IMPACT PLAN
W6	WATER ESTIMATE OF MATERIALS
M1-M4	PAVEMENT MARKING
E1	ELECTRICAL PLAN
MA1	MAINTENANCE MAP (CITY USE ONLY)

PROJECT
LOCATION

3840 MAPLE GROVE DRIVE -
(FRED - MAPLE GROVE DRIVE)

CITY PROJECT NO. 12310
CONTRACT NO. 8402

FRED-MAPLE GROVE DRIVE
STORMWATER MANAGEMENT
PLANS (SEE PROJECT NO. 12771,
CONTRACT NO. 8530)



CONTRACT FOR THE CONSTRUCTION OF
PUBLIC IMPROVEMENTS TO BE ACCEPTED BY
THE CITY OF MADISON 3840 MAPLE GROVE
DRIVE (SURFACE PAVING)
CONTRACT NO. 8531
PROJECT NO. 12772

ROCKSTREAM DRIVE STREET
PLANS (SEE PROJECT NO. 12694,
CONTRACT NO. 8498)

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	☀

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50%
TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL
HAVE A MAXIMUM SLOPE OF 1" PER 12", SIDEWALK AND CURB
RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 1.50%.
SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF
0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT
WHERE STREET GRADES EXCEED 5.00%.

PAVEMENT MARKING
DESIGNED BY:



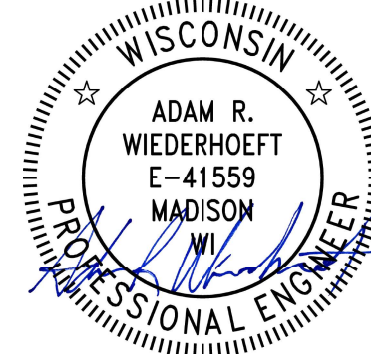
Sep 8, 2020

SANITARY SEWER
DESIGNED BY:



Sep 9, 2020

WATER MAIN
DESIGNED BY:



Sep 8, 2020

STORM SEWER
DESIGNED BY:



Sep 8, 2020

PLOT SCALE: 1 IN. = 1 FT. XREF

REV. DATE: 9/8/2020 8:58 AM

ORIGINATOR: CITY OF MADISON

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.

CITY FORESTRY WILL ISSUE A STREET TREE REMOVAL PERMIT FOR THE RIGHT OF WAY TREES ALONG MAPLE GROVE DR DUE TO GRADE CHANGES AND SIDEWALK INSTALLATION. PLEASE CONTACT FORESTRY AT 608-266-4816 TO OBTAIN THE STREET TREE REMOVAL PERMIT.

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.

ALL PAVEMENT IN THE MANCHESTER ROAD RIGHTS-OF-WAY SHALL BE TYPE B PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE FAIRHAVEN ROAD RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE MAPLE GROVE DRIVE RIGHT-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.

OBTAIN A PRINT OUT OF THE ALIGNMENTS FROM THE CITY PROJECT ENGINEER PRIOR TO STAKING THIS PROJECT.

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

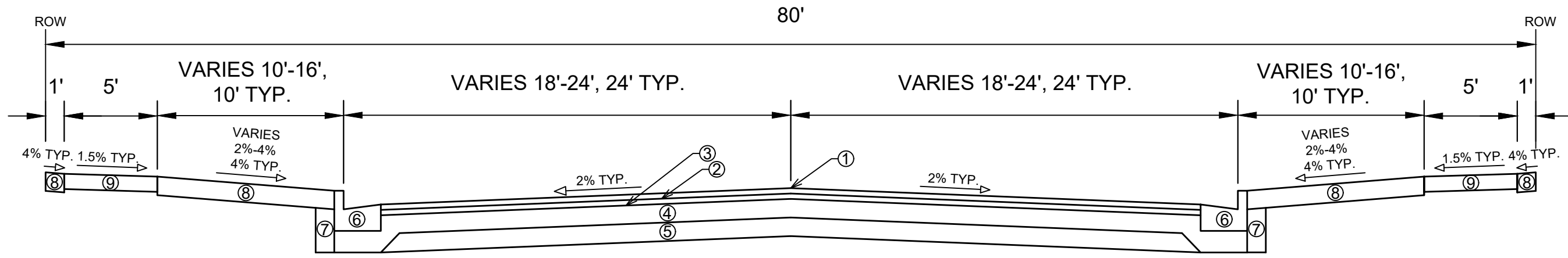
MARK	REVISION	DATE	BY
12310		9/8/2020 9:17 AM	

12310
MADISON, WI
8402
CONTRACT NO:

GENERAL NOTES
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-Notes.dwg



12310
D-1

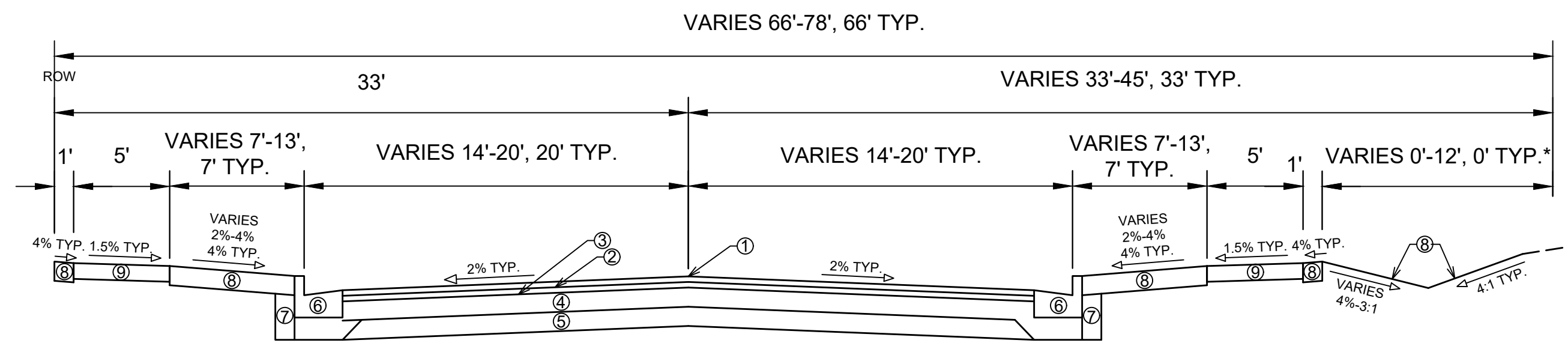


**TYPICAL SECTION
MANCHESTER ROAD
STA 400+82.00 TO STA 408+00.53**

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE

- ① POINT REFERRED TO ON PROFILE
- ② 2.00" HMA PAVEMENT, TYPE 4 LT 58-28 S (UPPER LAYER)
- ③ 2.50" HMA PAVEMENT, TYPE 3 LT 58-28 S (LOWER LAYER)
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK



**TYPICAL SECTION
FAIRHAVEN ROAD
STA 301+18.37 TO STA 310+59.00**

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE
*PROPOSED SWALE - STA 301+50.00 - STA 304+75.00 RT
SEE SHEET P-3 FOR BOTTOM OF SWALE ELEVATIONS

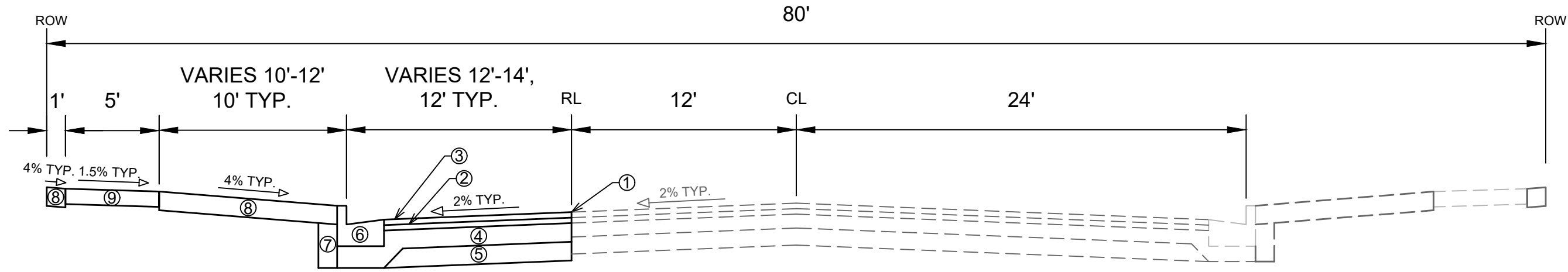
- ① POINT REFERRED TO ON PROFILE
- ② 1.75" HMA PAVEMENT, TYPE 4 LT 58-28 S (UPPER LAYER)
- ③ 1.75" HMA PAVEMENT, TYPE 4 LT 58-28 S (LOWER LAYER)
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK

DATE	BY
REVISION	DATE
Scale: #####	Scale: #####
12310	12310

12310
MADISON, WI
8402
CONTRACT NO:

TYPICAL SECTIONS
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-Typicals.dwg



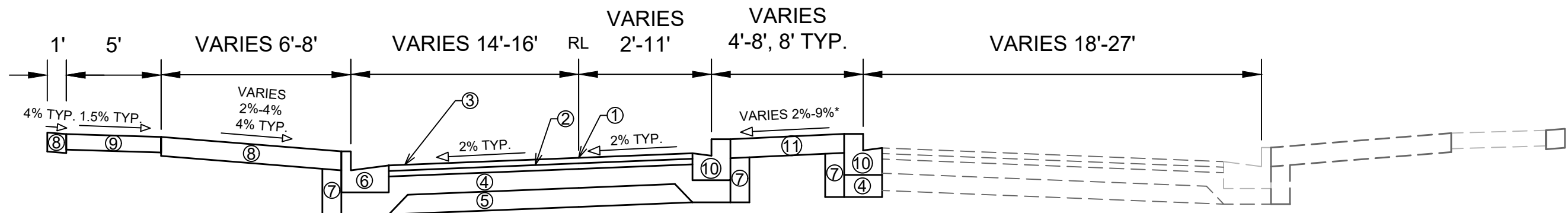


**TYPICAL SECTION
MAPLE GROVE DRIVE**
 STA 600+63.86 TO STA 603+86.33
 STA 605+52.60 TO STA 606+40.99
 STA 608+07.51 TO STA 609+44.44

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE

- ① POINT REFERRED TO ON PLAN
- ② 2.00" HMA PAVEMENT, TYPE 4 MT 58-28 S (UPPER LAYER)
- ③ 3.50" HMA PAVEMENT, TYPE 3 MT 58-28 S (LOWER LAYER)
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK



**TYPICAL SECTION
MAPLE GROVE DRIVE**
 STA 603+86.33 TO STA 605+52.60
 STA 606+40.99 TO STA 608+07.51

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE
 * MEDIAN TIPPED EAST STA 607+25 TO STA 608+07.51

- ① POINT REFERRED TO ON PLAN
- ② 2.00" HMA PAVEMENT, TYPE 4 MT 58-28 S (UPPER LAYER)
- ③ 3.50" HMA PAVEMENT, TYPE 3 MT 58-28 S (LOWER LAYER)
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER)
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER)
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK
- ⑩ CONCRETE CURB AND GUTTER TYPE 'H', SEE P-SHEETS FOR LOCATIONS
- ⑪ 7" CONCRETE SIDEWALK

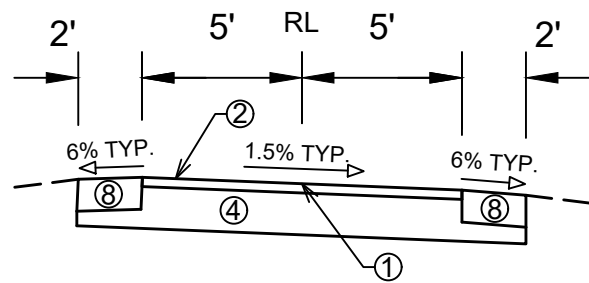
MARK	REVISION	DATE	BY
12310	9/8/2020 9:17 AM	###	###
Designed By: ALZ	Date: 9/8/2020 9:17 AM	Scale: #####	D-3

12310
 MADISON, WI
 8402
 CONTRACT NO:

TYPICAL SECTIONS
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12310\CAD\Plan_Sheets\12310EN-Typicals.dwg



12310
 D-3

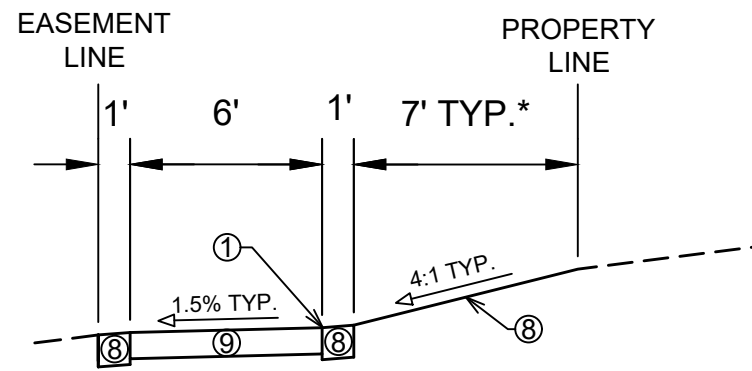


**TYPICAL SECTION
PATH
(ROCKSTREAM DRIVE TO FAIRHAVEN ROAD)
STA 816+00.00 TO STA 802+49.90.00**

- ① POINT REFERRED TO ON PROFILE
- ② 3" HMA PAVEMENT, TYPE 4 LT 58-28 S, 12.5 MM
- ④ 8" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE



**TYPICAL SECTION
SIDEWALK (FAIRHAVEN ROAD
TO MAPLE GROVE DRIVE
STA 700+14.00 TO STA 704+43.52**

- ① POINT REFERRED TO ON PROFILE
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
- ⑨ 5" CONCRETE SIDEWALK

SPECIAL NOTES:

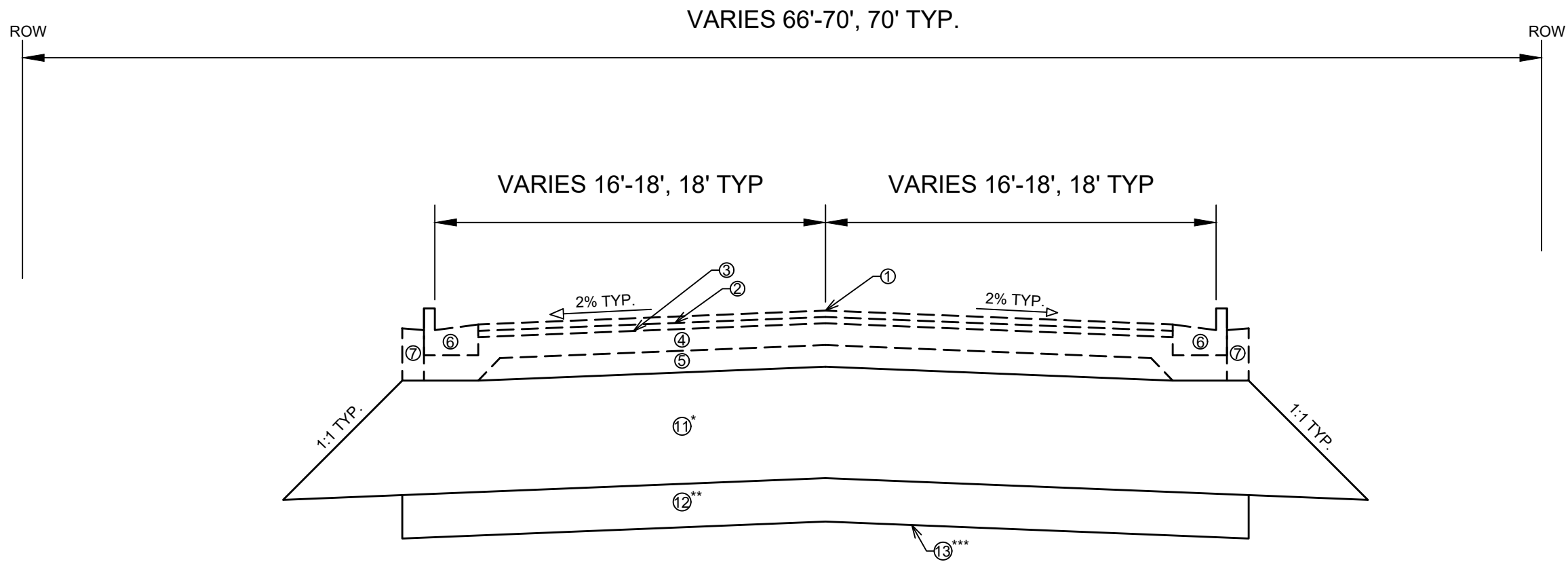
- TYPICAL SECTION NOT TO SCALE
*VARIES 7' - 20' - STA 702+78.56 - STA 704+43.52

MARK	REVISION	DATE	BY
12310	9/16/2020 9:17 AM		
Scale: #####			D-4

12310	MADISON, WI	8402
CONTRACT NO:		



TYPICAL SECTIONS
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-Typicals.dwg



SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE

- CONSTRUCT ROCKSTREAM DRIVE TO SUBGRADE BETWEEN STA 106+25.00 TO STA 113+25.00. BASE COURSE, CURB & GUTTER, AND PAVEMENT TO BE CONSTRUCTED BY OTHERS

- IF LOOSE SANDS ARE DISCOVERED BENEATH THE TOPSOIL, VIBRATORY COMPACTIVE EFFORT/DENSIFICATION AND SUBSEQUENT EVALUATION SHALL BE REQUIRED FOR STABILITY PRIOR TO PLACING SELECT FILL.

*SELECT FILL SHALL BE COMPLETED PER ARTICLE 202(c). REPRESENTATIVE SAMPLES OF PROPOSED FILL SHALL BE SUBMITTED TO THE CITY'S GEOTECH CONSULTANT FOR OPTIMUM MOISTURE-MAXIMUM DENSITY DETERMINATION (ASTM D1557) PRIOR TO THE START OF FILL PLACEMENT. THE SAMPLE SIZE SHALL BE APPROXIMATELY 50 LB. THE CITY'S GEOTECH CONSULTANT SHALL BE RETAINED TO PERFORM FIELD DENSITY TEST TO DETERMINE THE LEVEL OF COMPACTION BEING ACHIEVED IN THE FILL. THE TESTS SHALL GENERALLY BE CONDUCTED ON EACH LIFT AT THE BEGINNING OF FILL PLACEMENT AND AT A FREQUENCY MUTUALLY AGREED UPON BY THE PROJECT TEAM FOR THE REMAINDER OF THE PROJECT.

**TEST ROLLING SHALL BE COMPLETED PER ARTICLE 201.29(c) OF THE STANDARD SPECIFICATIONS.

***GEOSYNTHETIC REINFORCEMENT FABRIC SHALL BE MIRIAFI RS580i OR AN APPROVED EQUAL. THE BREAKER RUN SHALL BE PLACED DIRECTLY OVER THE FABRIC.

**TYPICAL SECTION
ROCKSTREAM DRIVE
STA 106+25.00 TO STA 113+25.00**

- ① POINT REFERRED TO ON PROFILE
- ② 2.00" HMA PAVEMENT, TYPE 4 LT 58-28 S (UPPER LAYER) - BY OTHERS
- ③ 2.50" HMA PAVEMENT, TYPE 3 LT 58-28 S (LOWER LAYER) - BY OTHERS
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE (UPPER LAYER) - BY OTHERS
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE (LOWER LAYER) - BY OTHERS
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A', SEE P-SHEETS FOR LOCATIONS - BY OTHERS
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION - BY OTHERS
- ⑧ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING - BY OTHERS
- ⑨ 5" CONCRETE SIDEWALK - BY OTHERS
- ⑩ 3.00" HMA PAVEMENT, TYPE 4 LT 58-28 S - BY OTHERS
- ⑪ *SELECT FILL, DEPTH VARIES
- ⑫ **12" BREAKER RUN AS NEEDED
- ⑬ **GEOSYNTHETIC REINFORCEMENT FABRIC AS NEEDED

MARK	REVISION	DATE	BY
12310	9/16/2020 9:17 AM	Scale: #####	D-5

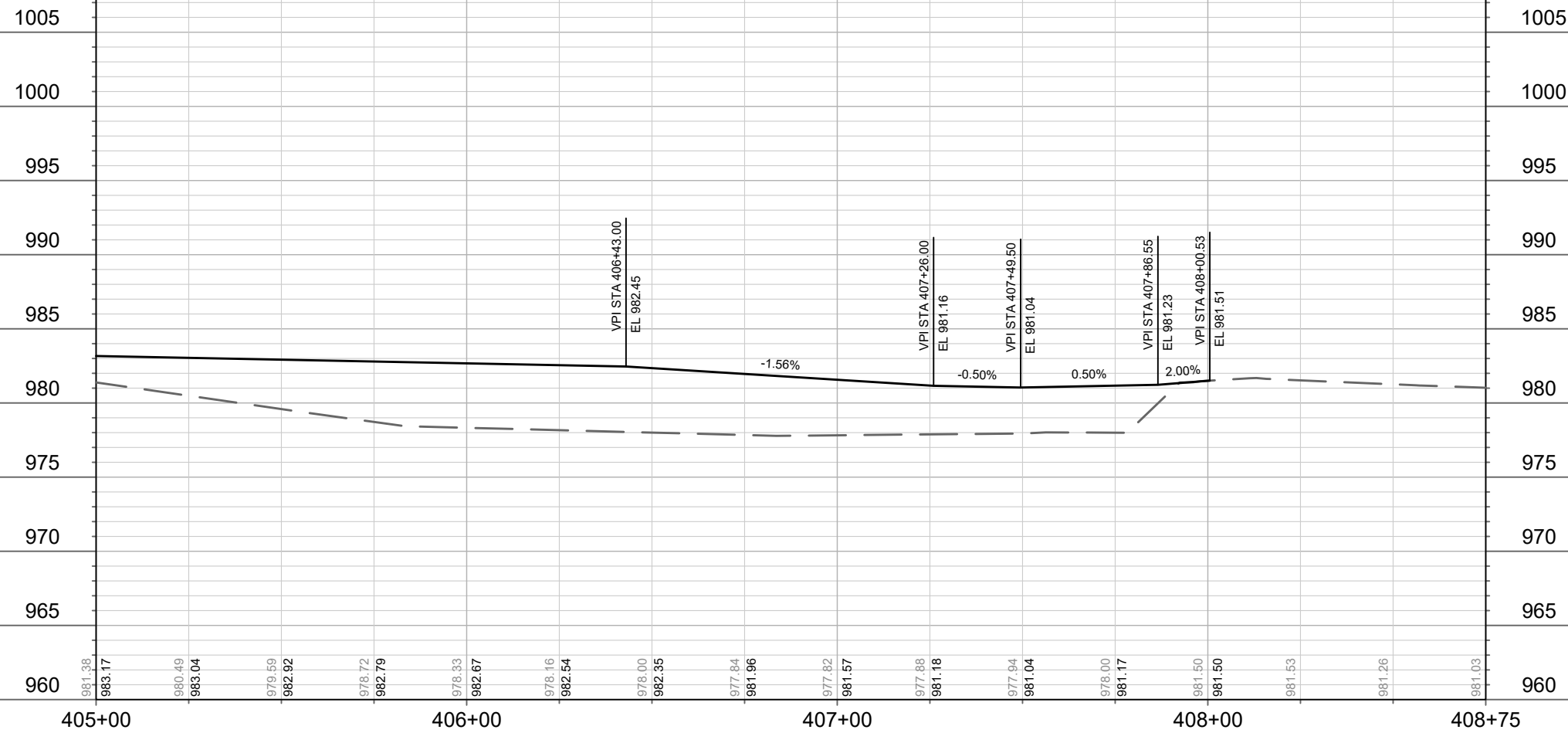
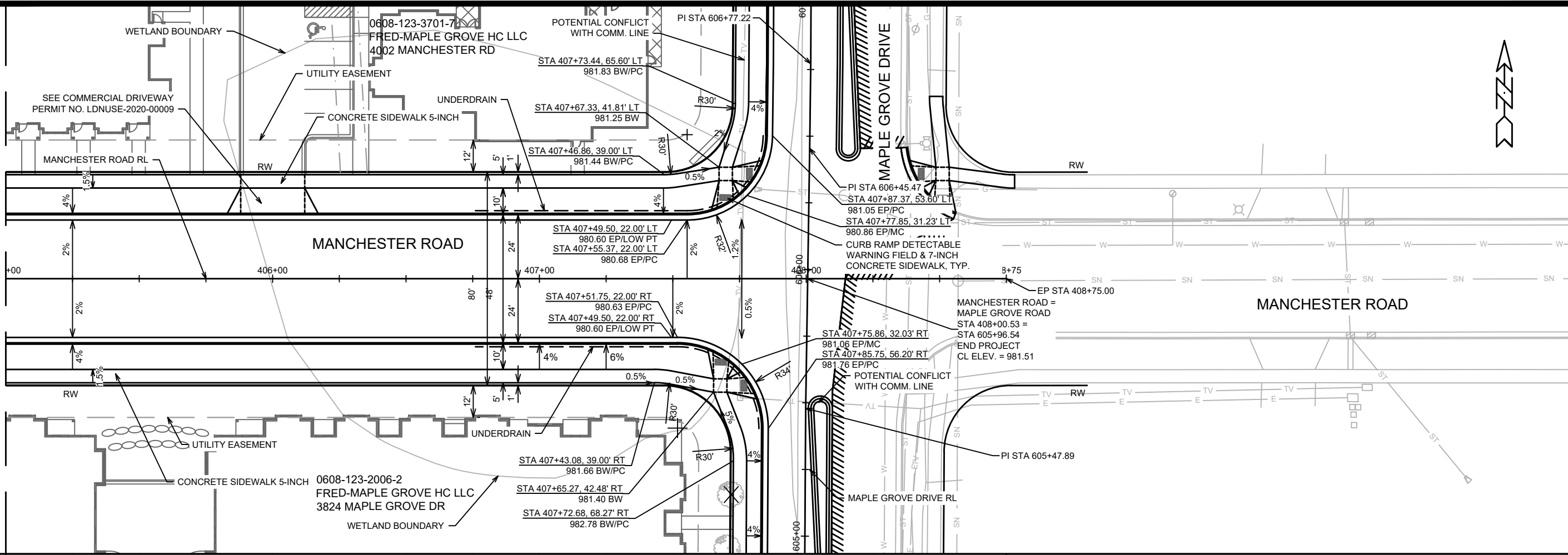
12310
MADISON, WI
8402
CONTRACT NO:

TYPICAL SECTIONS
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-TypicalsD-5.dwg

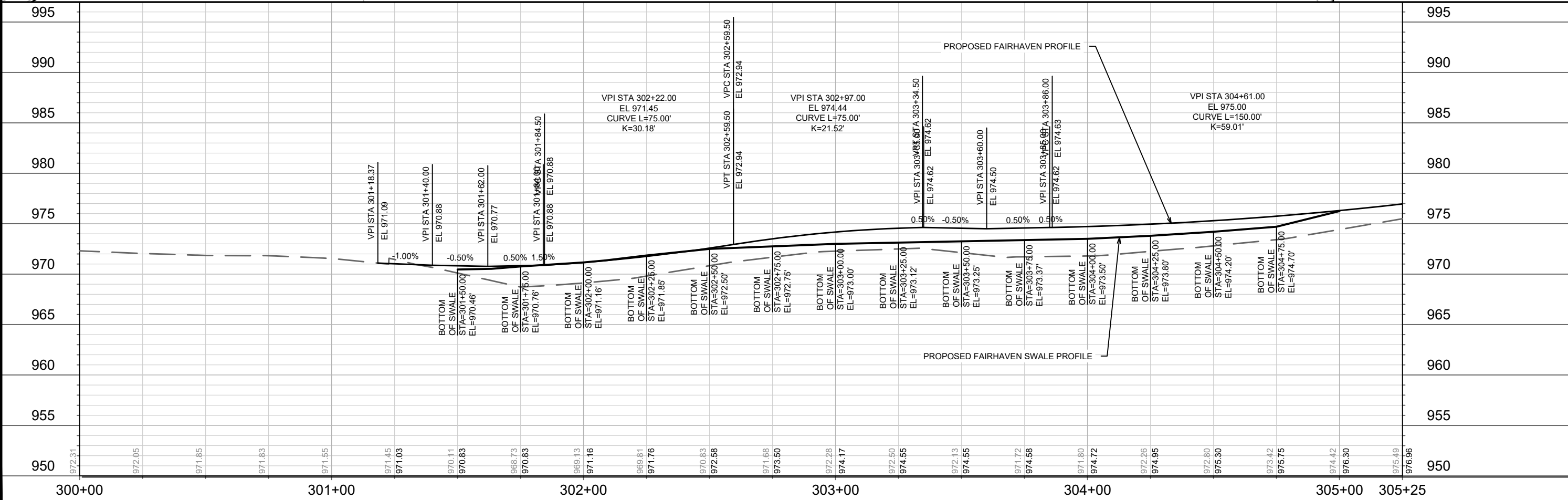
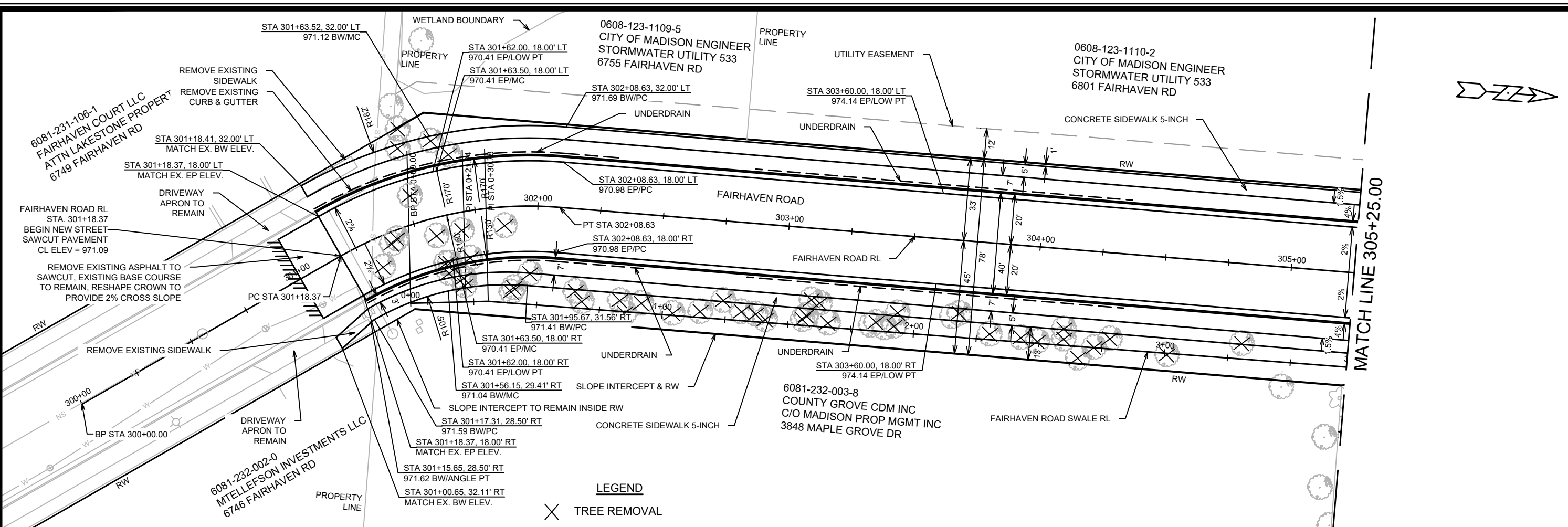


12310
D-5

MATCH LINE 405+00.00

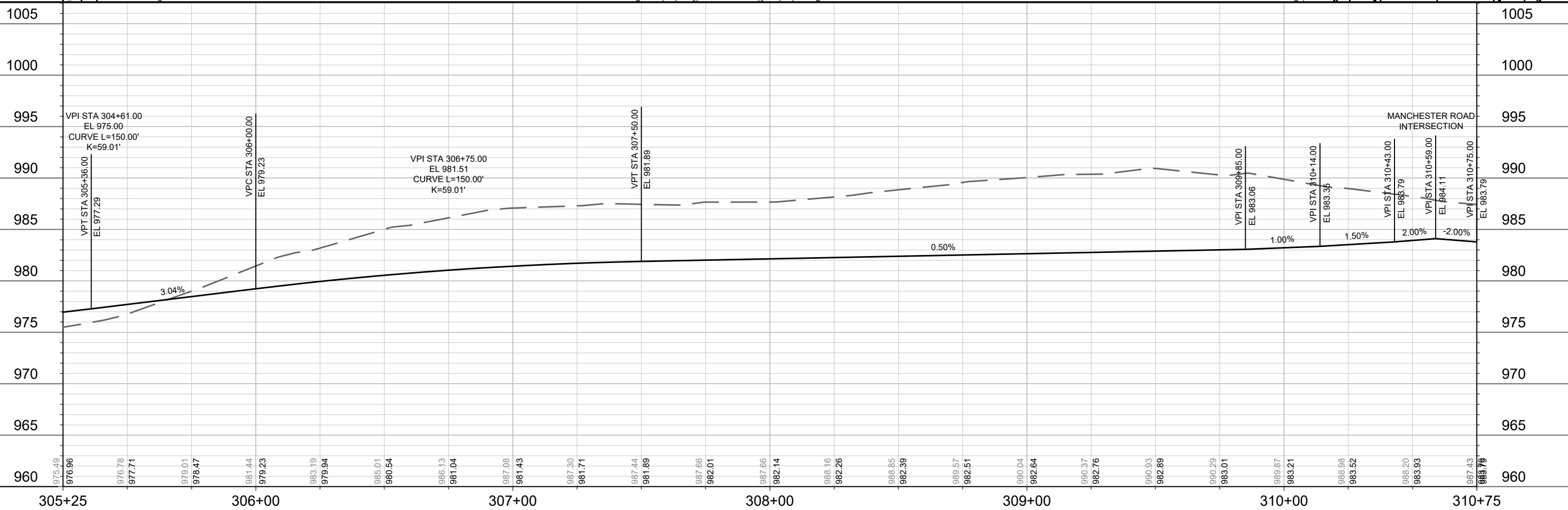
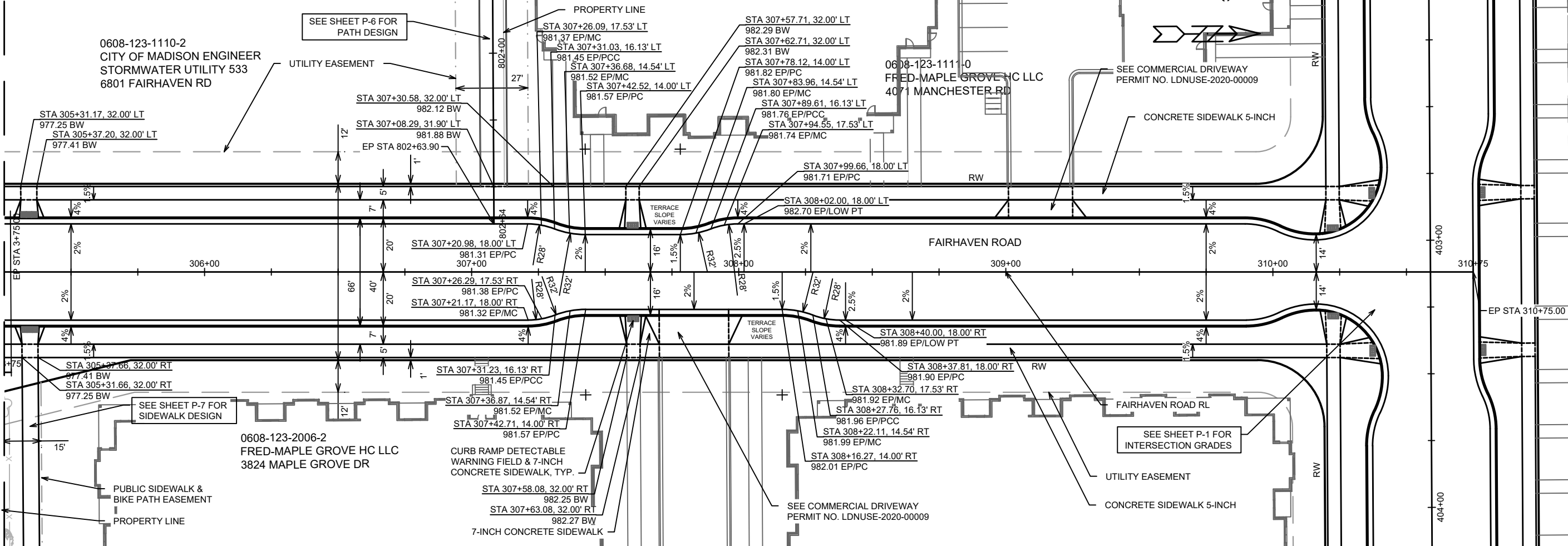


12310	12310	12310	12310	12310	12310	12310	12310	12310	12310
MARK	REVISION	DATE	BY	MARK	REVISION	DATE	BY	MARK	REVISION
Described By: A.Z	Date: 9/8/2020 9:36 AM	Scale: 1" = 40'		Described By: A.Z	Date: 9/8/2020 9:36 AM	Scale: 1" = 40'		Described By: A.Z	Date: 9/8/2020 9:36 AM
12310		8402		12310		8402		12310	
12310		MADISON, WI		12310		MADISON, WI		12310	
12310		3840 MAPLE GROVE DRIVE		12310		3840 MAPLE GROVE DRIVE		12310	
12310		CONTRACT NO:		12310		CONTRACT NO:		12310	
12310		MANCHESTER ROAD PLAN & PROFILE		12310		MANCHESTER ROAD PLAN & PROFILE		12310	
12310		3840 MAPLE GROVE DRIVE		12310		3840 MAPLE GROVE DRIVE		12310	
12310		M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP ManchesterRd.dwg		12310		M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP ManchesterRd.dwg		12310	
12310		CITY OF MADISON WISCONSIN		12310		CITY OF MADISON WISCONSIN		12310	
12310		12310		12310		12310		12310	
12310		P-2		12310		P-2		12310	



12310	MADISON, WI	8402	CONTRACT NO:
FAIRHAVEN ROAD PLAN & PROFILE			
3840 MAPLE GROVE DRIVE			
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP FairhavenRd.dwg			
12310		P-3	

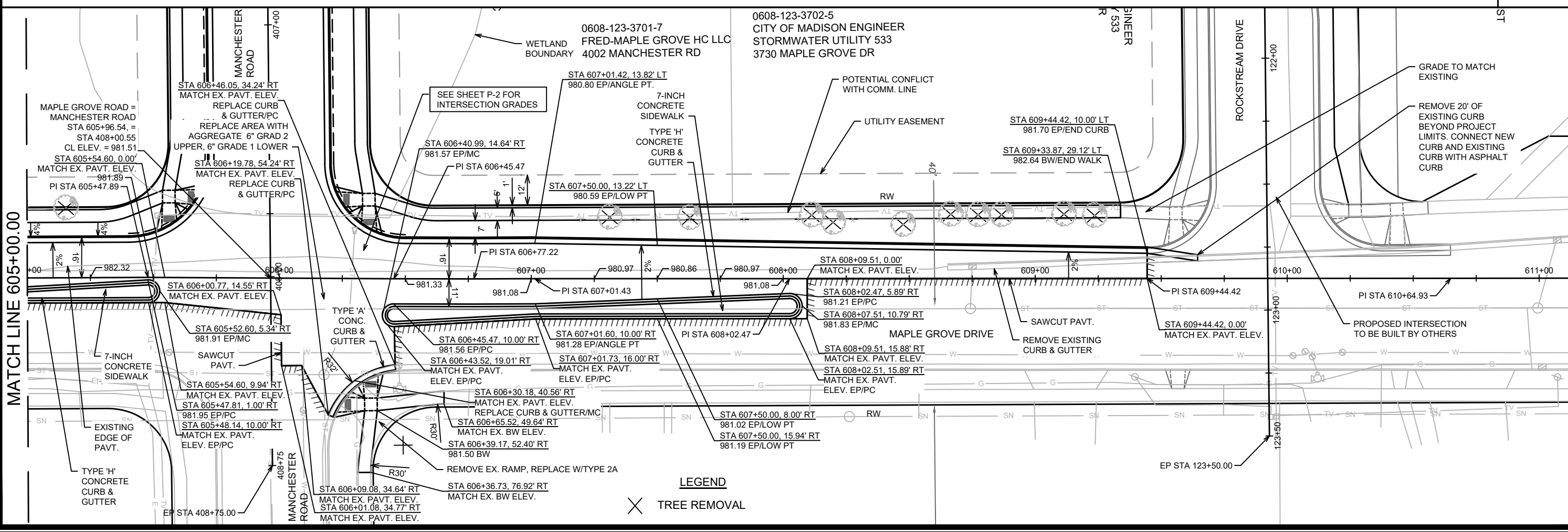
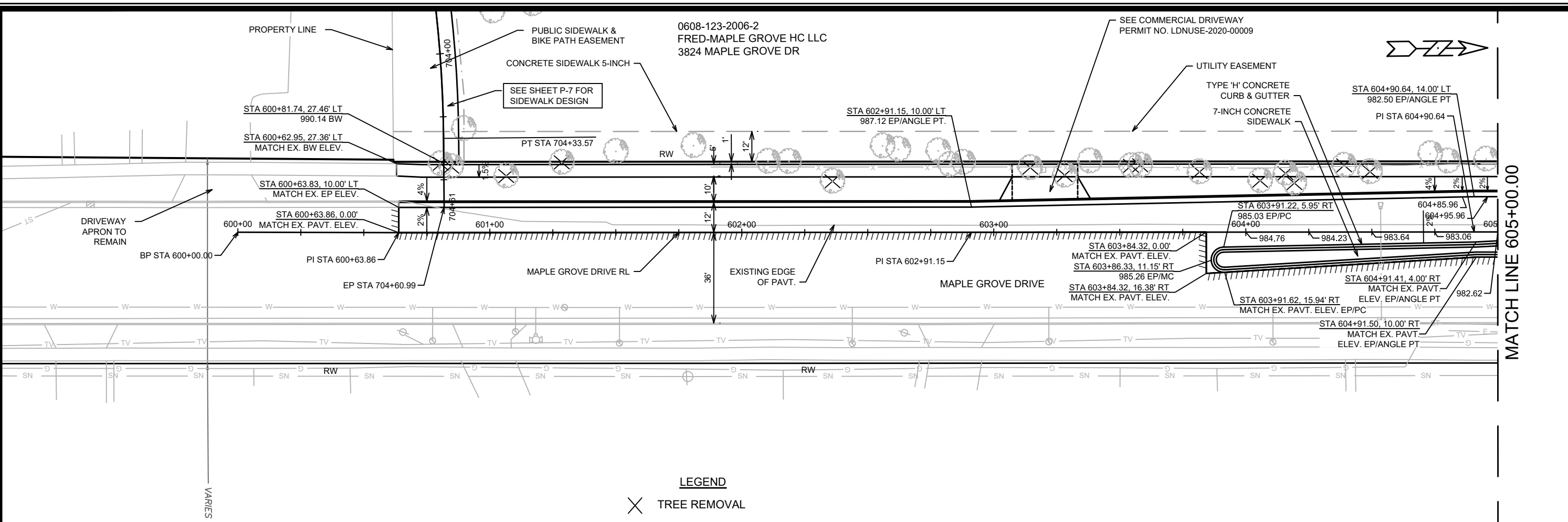
MATCH LINE 305+25.00



REVISION	DATE	BY
MARK	DATE	BY
DESIGNED BY: A.Z	DATE: 9/8/2020 9:37 AM	SCALE: 1" = 40'
12310		P-4

12310
MADISON, WI
8402
CONTRACT NO:

FAIRHAVEN ROAD PLAN & PROFILE
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP FairhavenRd.dwg



LEGEND
 X TREE REMOVAL

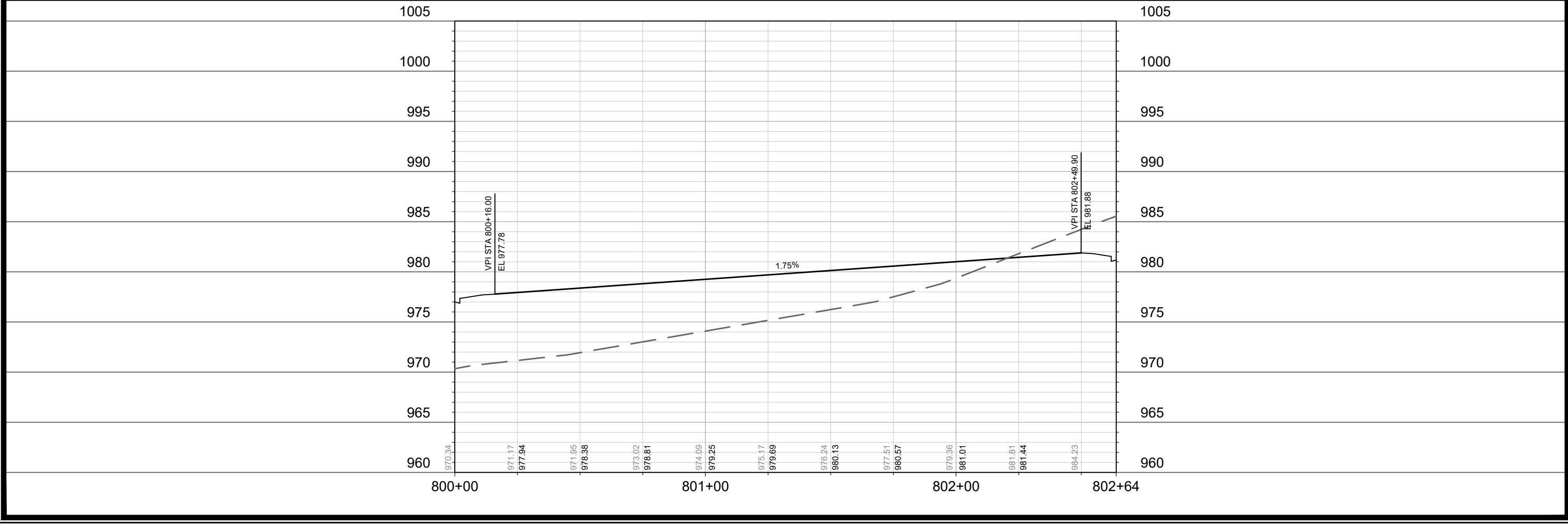
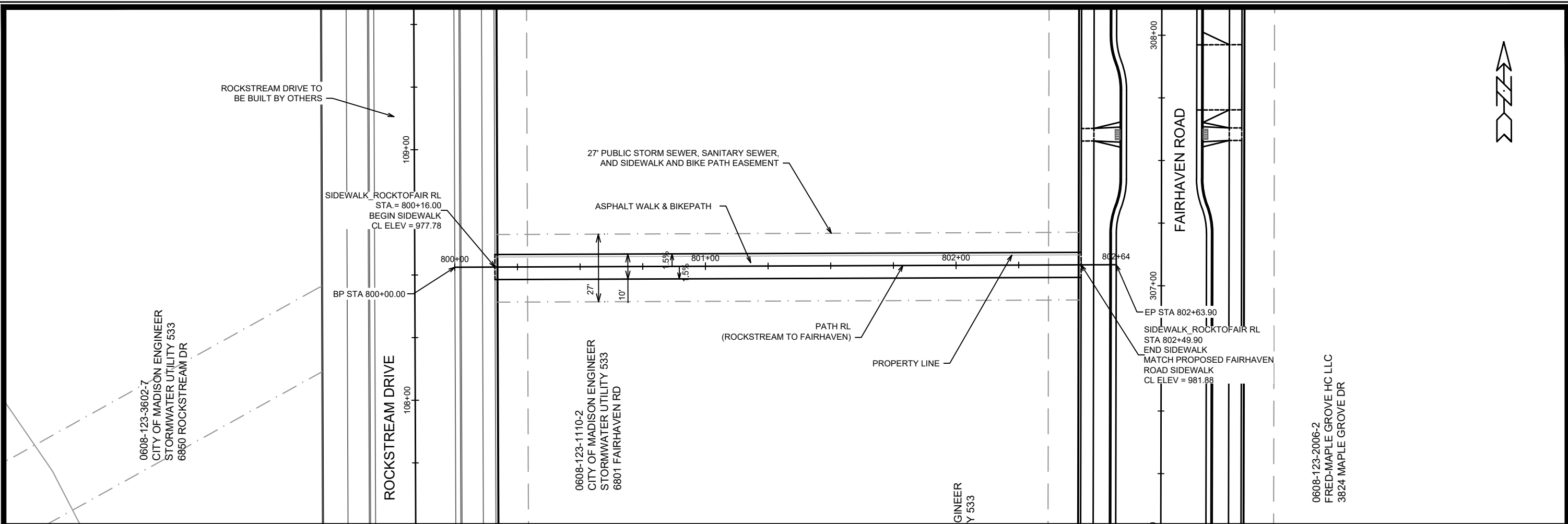
LEGEND
 X TREE REMOVAL


PROJECT NO.	12310
CITY	MADISON, WI
CONTRACT NO.	8402
DATE	9/8/2020 9:38 AM
REVISION	DATE
BY	DATE
SCALE	###/###
MARK	
REVISION	
DATE	
BY	
SCALE	
PROJECT NO.	12310
CITY	MADISON, WI
CONTRACT NO.	8402
DATE	9/8/2020 9:38 AM
REVISION	DATE
BY	DATE
SCALE	###/###
MARK	
REVISION	
DATE	
BY	
SCALE	

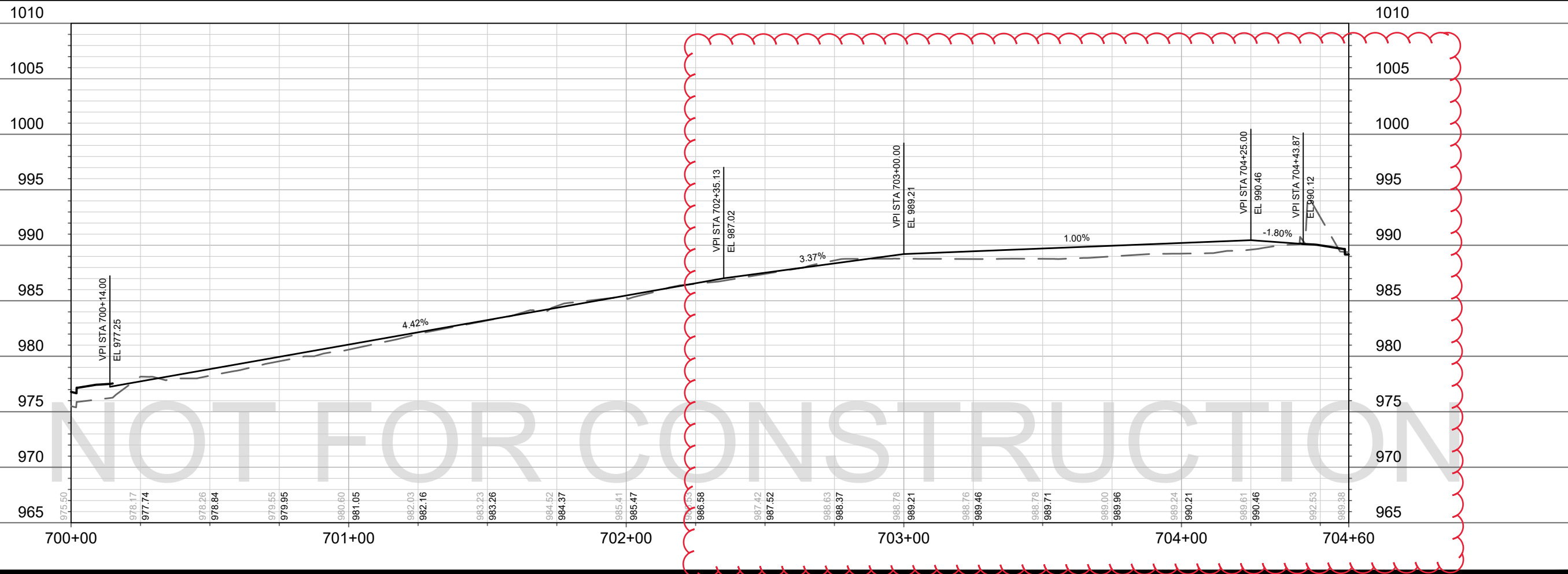
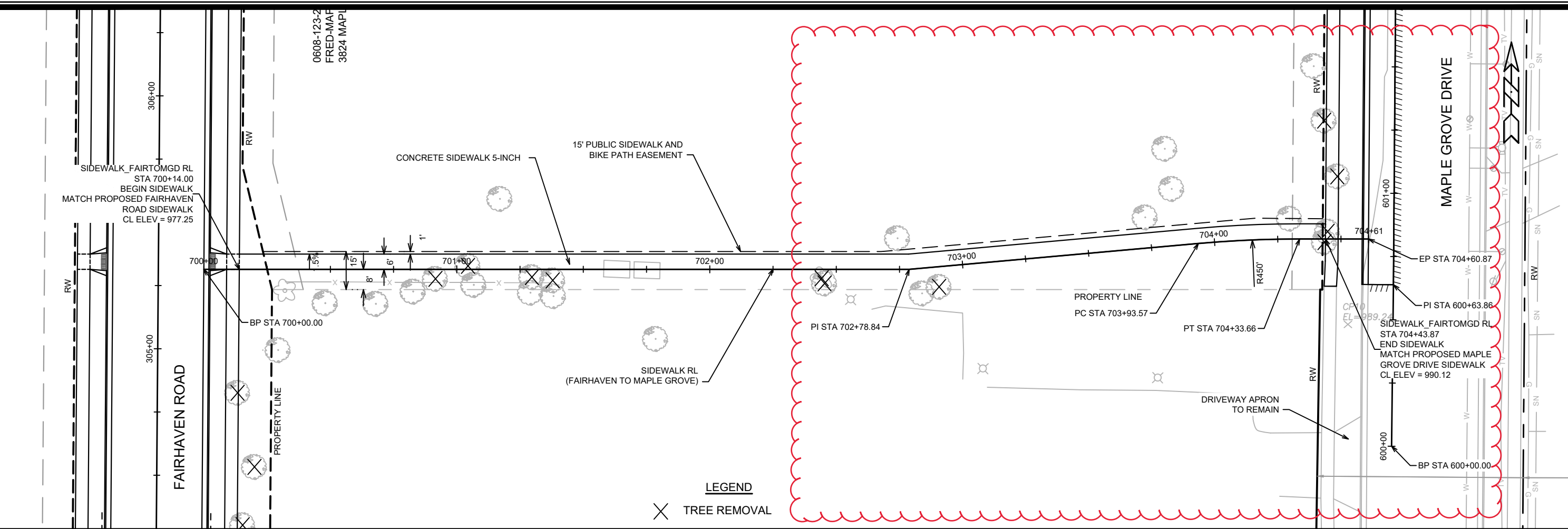
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP MapleGroveDr.dwg

MAPLE GROVE DRIVE PLAN
3840 MAPLE GROVE DRIVE


12310
P-5



	12310 P-6	12310 MADISON, WI 8402 CONTRACT NO:	PATH PLAN & PROFILE PATH ROCKSTREAM DRIVE TO FAIRHAVEN ROAD
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP Sidewalk_RocktoMGB.dwg		Date: 9/6/2020 9:38 AM Scale: 1" = 40' P-6	



NOT FOR CONSTRUCTION

 12310 P-7	SIDEWALK PLAN & PROFILE SIDEWALK FAIRHAVEN ROAD TO MAPLE GROVE DRIVE <small>M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP Sidewalk_RocktoMGB.dwg</small>	12310 MADISON, WI 8402 CONTRACT NO.:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>REV#</td> <td>REVISION</td> <td>DATE</td> <td>BY</td> </tr> <tr> <td>01</td> <td>REVISE SIDEWALK GEOMETRY</td> <td>08/29/22</td> <td>AJZ</td> </tr> </table>	REV#	REVISION	DATE	BY	01	REVISE SIDEWALK GEOMETRY	08/29/22	AJZ
REV#	REVISION	DATE	BY								
01	REVISE SIDEWALK GEOMETRY	08/29/22	AJZ								

0608-123-3602-7
 CITY OF MADISON ENGINEER
 STORMWATER UTILITY 533
 6850 ROCKSTREAM DR

PLACE FILL AT A 3:1 SLOPE TO
 MATCH EXISTING GRADE

PLACE FILL AT A 3:1 SLOPE TO
 MATCH EXISTING GRADE
 BEGIN CONSTRUCTION OF
 ROCKSTREAM DRIVE TO
 SUBGRADE FROM 1' BEHIND BACK OF
 CURB TO 1' BEHIND BACK OF CURB
 STA. 106+25.00

ROCKSTREAM DRIVE RL

RW

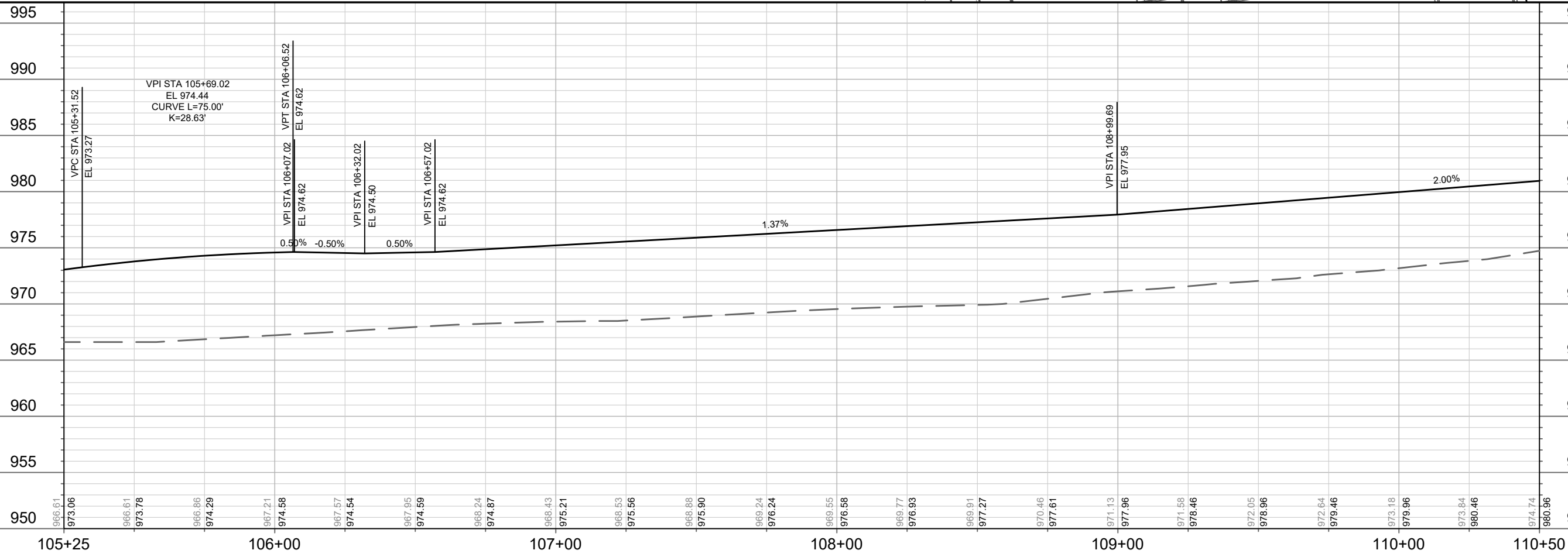
ROCKSTREAM DRIVE

0608-123-1111-0
 RED MAPLE GROVE HO LLC
 4071 MANCHESTER RD

UTILITY EASEMENT
 CITY OF MADISON ENGINEER
 STORMWATER UTILITY 533
 6801 FAIRHAVEN RD

MATCH LINE 105+25.00

MATCH LINE 110+50.00

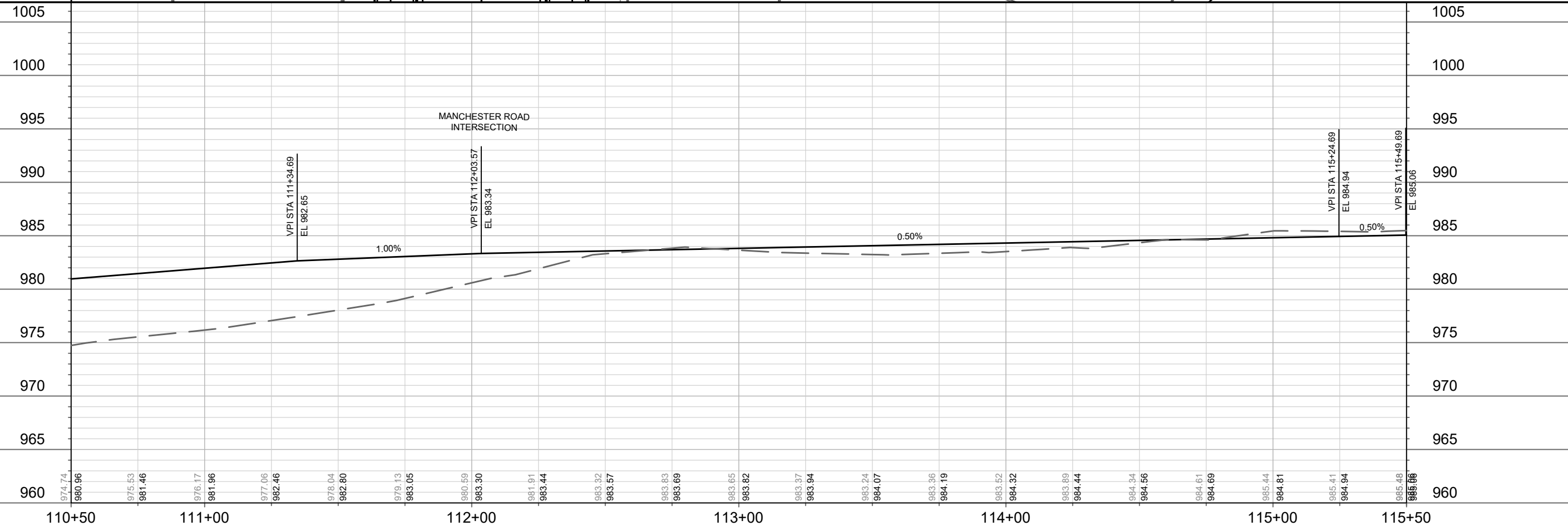
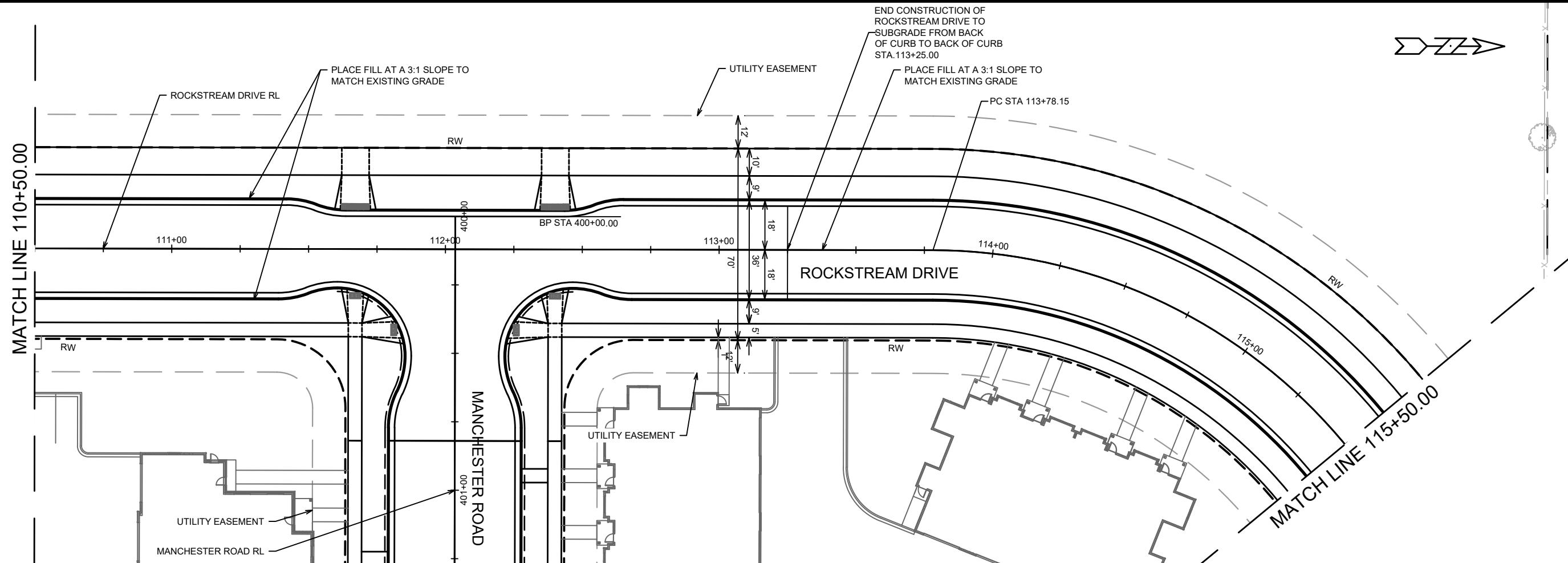


MARK	REVISION	DATE	BY

12310
 MADISON, WI
 8402
 CONTRACT NO:

ROCKSTREAM DRIVE PLAN & PROFILE
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP RockstreamDr.dwg



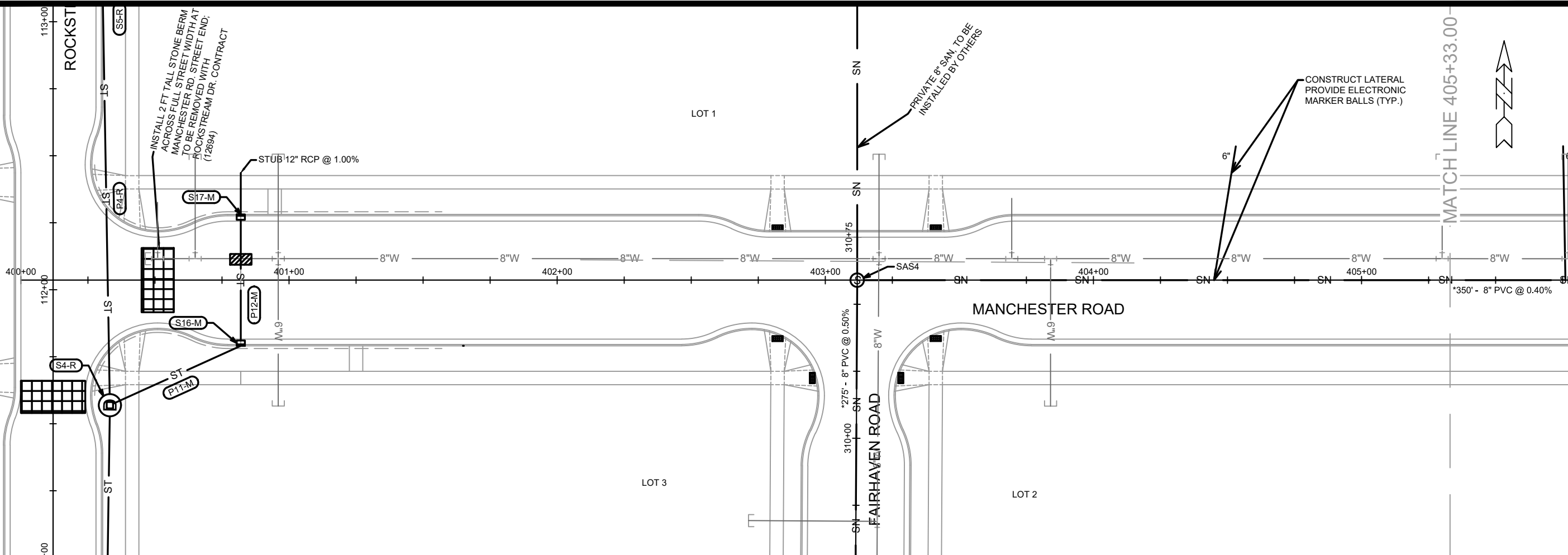


974.74	975.53	976.17	977.06	978.04	979.13	980.59	981.91	983.32	983.83	983.65	983.37	983.24	983.07	983.36	983.52	983.89	984.34	984.61	985.44	985.41	985.48
980.96	981.46	981.96	982.46	982.80	983.05	983.30	983.44	983.57	983.69	983.82	983.94	984.07	984.19	984.32	984.44	984.56	984.69	984.81	984.94	985.06	985.06
110+50	111+00					112+00				113+00				114+00					115+00		115+50

REVISION	DATE	BY
MARK	DATE	BY
Designed By: A.L.Z. Date: 8/10/2020 2:30 PM		
Scale: 1" = 40'		
12694		

12694
MADISON, WI
CONTRACT NO: 8498

PLAN & PROFILE
ROCKSTREAM DRIVE
M:\DESIGN\Projects\12694\CAD\Plan Sheets\12694EN-PnP RockstreamDr.dwg



INSTALL 2 FT TALL STONE BERM
ACROSS FULL STREET WIDTH AT
MANCHESTER RD. STREET END AT
ROCKSTREAM DR. STREET END.
(12694)

PRIVATE 8" SAN TO BE
INSTALLED BY OTHERS

CONSTRUCT LATERAL
PROVIDE ELECTRONIC
MARKER BALLS (TYP.)

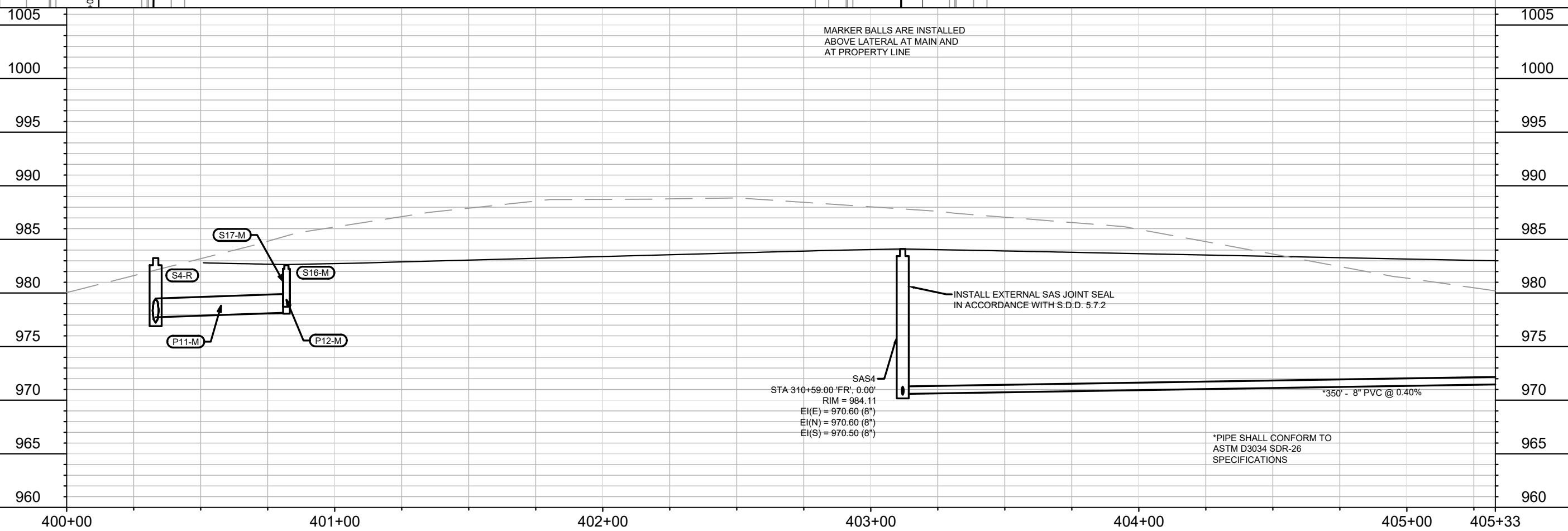
MATCHLINE 405+33.00

MARKER BALLS ARE INSTALLED
ABOVE LATERAL AT MAIN AND
AT PROPERTY LINE

INSTALL EXTERNAL SAS JOINT SEAL
IN ACCORDANCE WITH S.D.D. 5.7.2

SAS4
STA 310+59.00 'FR', 0.00'
RIM = 984.11
EI(E) = 970.60 (8")
EI(N) = 970.60 (8")
EI(S) = 970.50 (8")

*PIPE SHALL CONFORM TO
ASTM D3034 SDR-26
SPECIFICATIONS

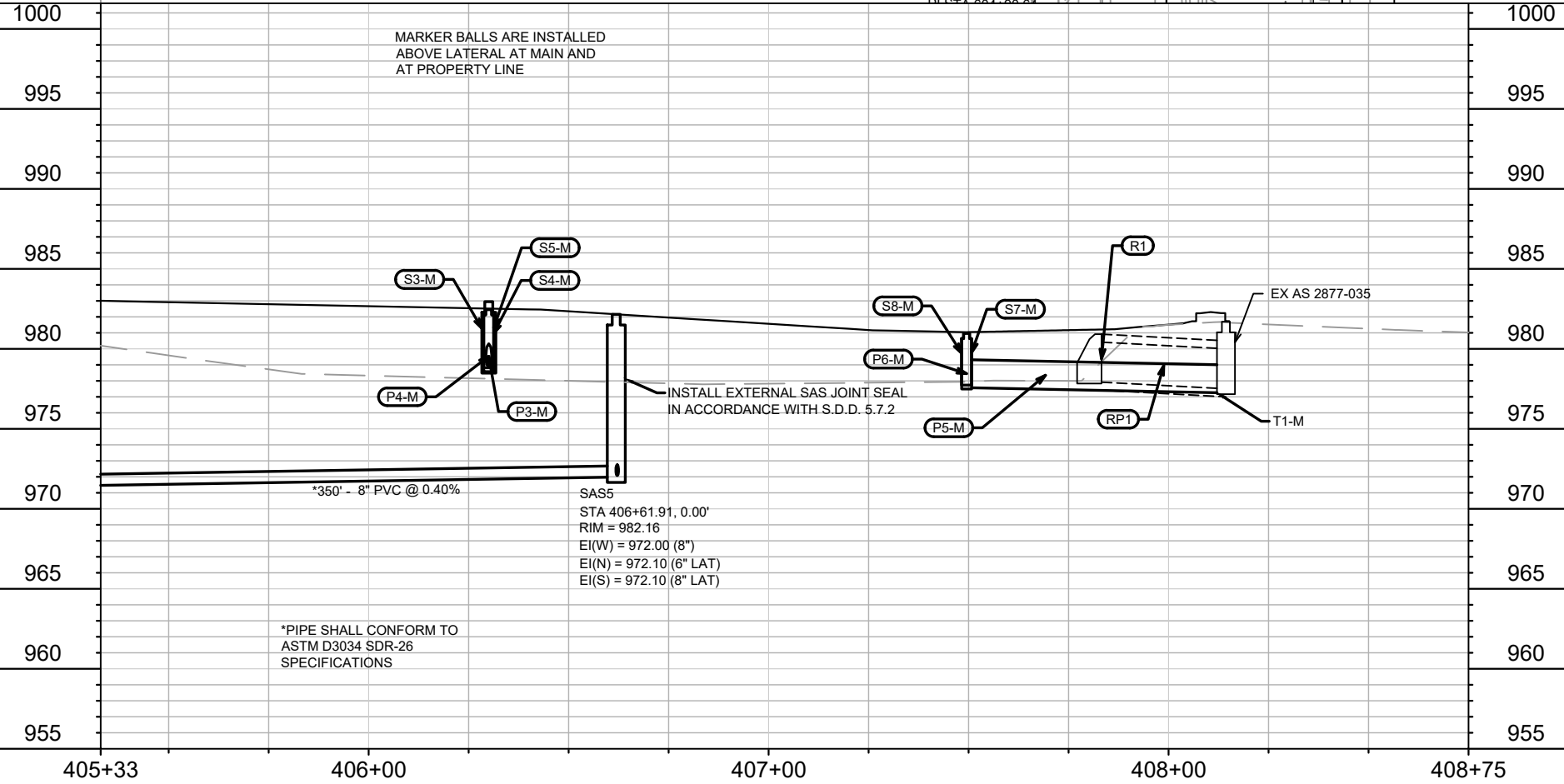
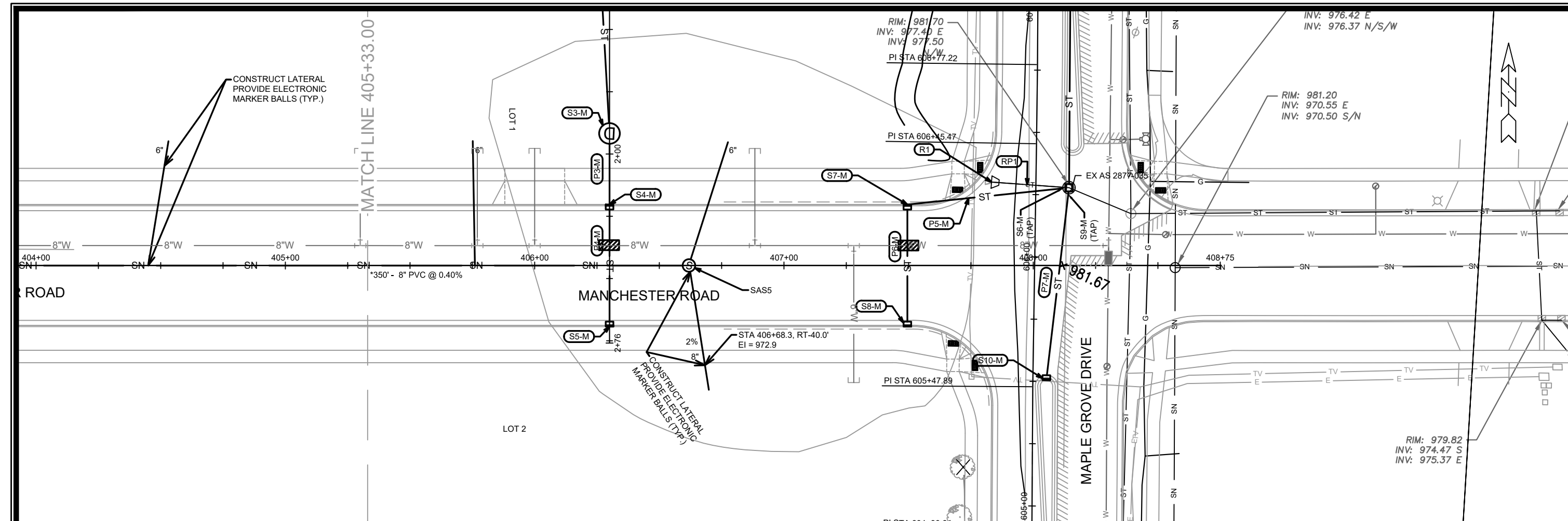


MARK	REVISION	DATE	BY

Designed By: MAA Date: 9/8/2020 8:39 AM Scale: 1" = 40'

12310
MADISON, WI
CONTRACT NO: 8402

U1
MANCHESTER ROAD
M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg



MARKER BALLS ARE INSTALLED ABOVE LATERAL AT MAIN AND AT PROPERTY LINE

INSTALL EXTERNAL SAS JOINT SEAL IN ACCORDANCE WITH S.D.D. 5.7.2

*PIPE SHALL CONFORM TO ASTM D3034 SDR-26 SPECIFICATIONS

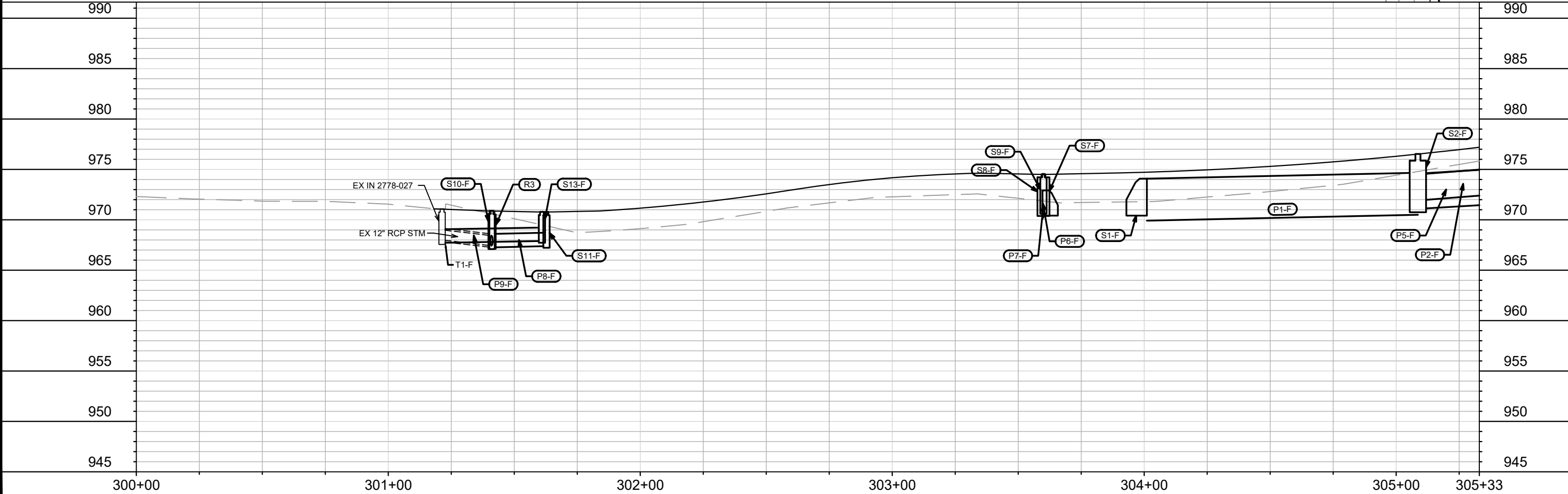
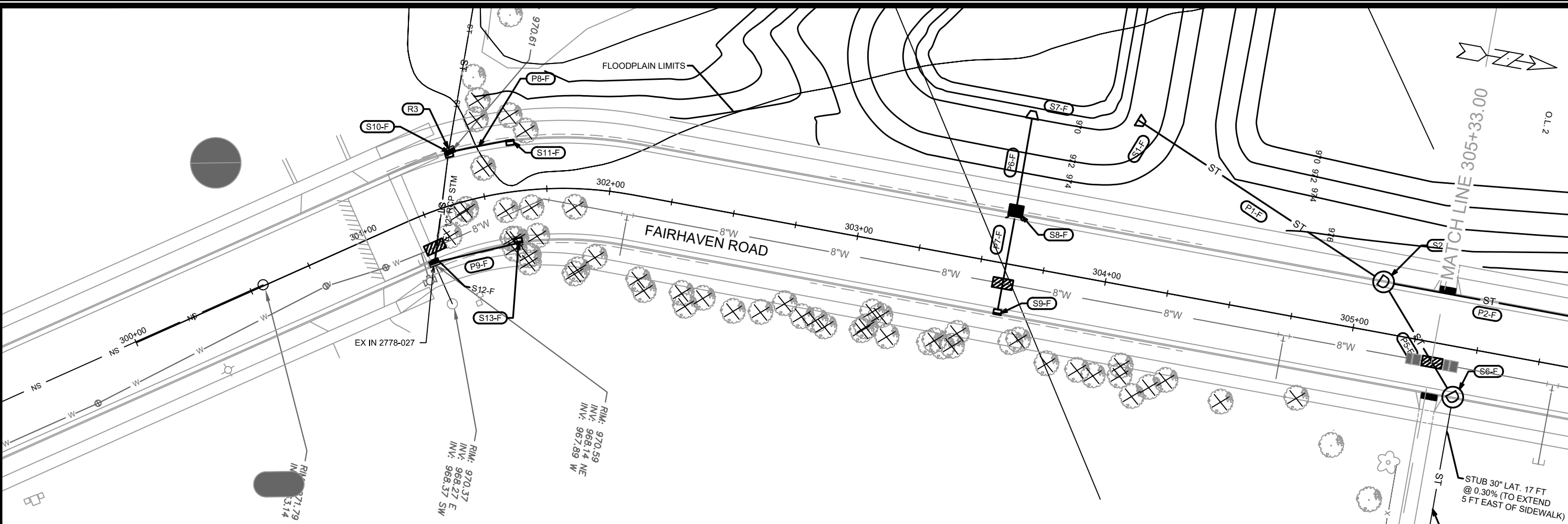
SAS5
 STA 406+61.91, 0.00'
 RIM = 982.16
 EI(W) = 972.00 (8")
 EI(N) = 972.10 (6" LAT)
 EI(S) = 972.10 (8" LAT)

12310	U2
MADISON, WI	MANCHESTER ROAD
CONTRACT NO: 8402	M:\DESIGN\Projects\12694\CAD\Sanitary\12694\SAN-STM.dwg
12310	U-2

U2
 MANCHESTER ROAD
 MADISON, WI
 CONTRACT NO: 8402
 12310
 U-2



MARK	REVISION	DATE	BY
12310	1	9/8/2020 8:39 AM	MAA



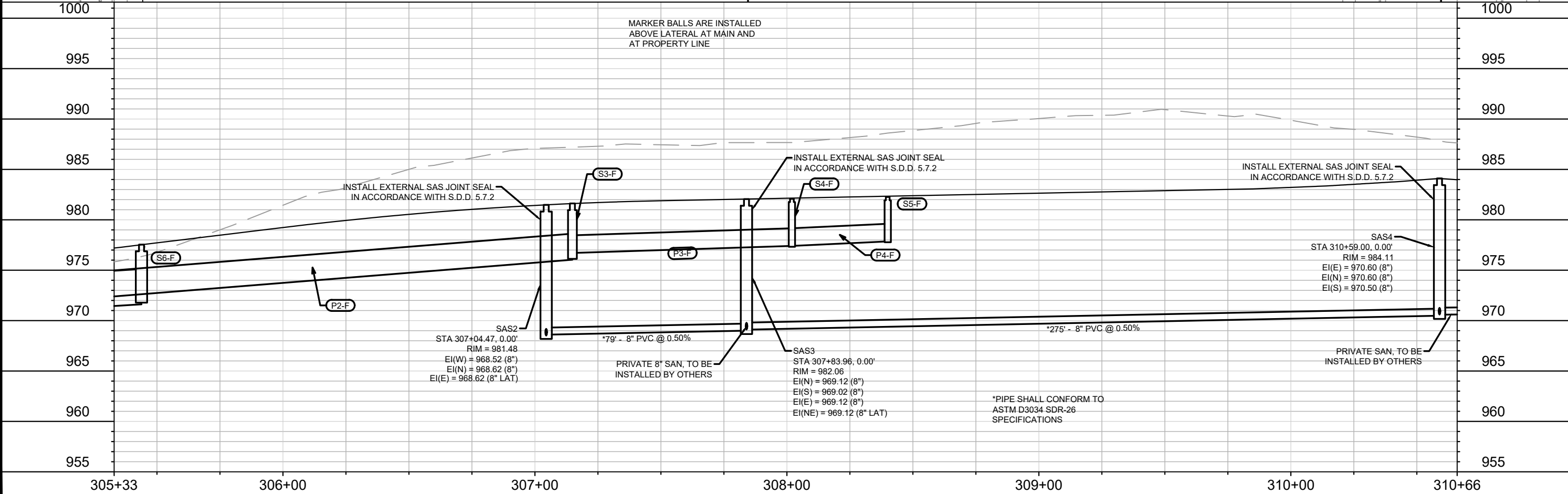
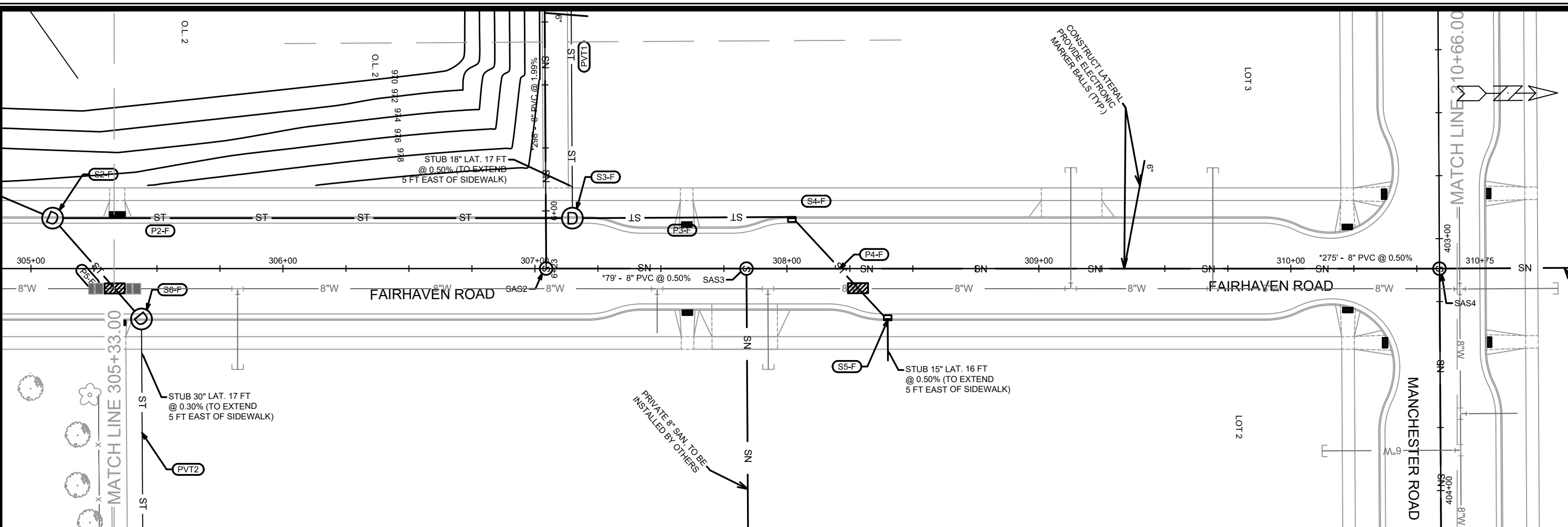
MARK	REVISION	DATE	BY

12310
 MADISON, WI
 CONTRACT NO: 8402

U3
 FAIRHAVEN ROAD
 M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg

12310
 U-3

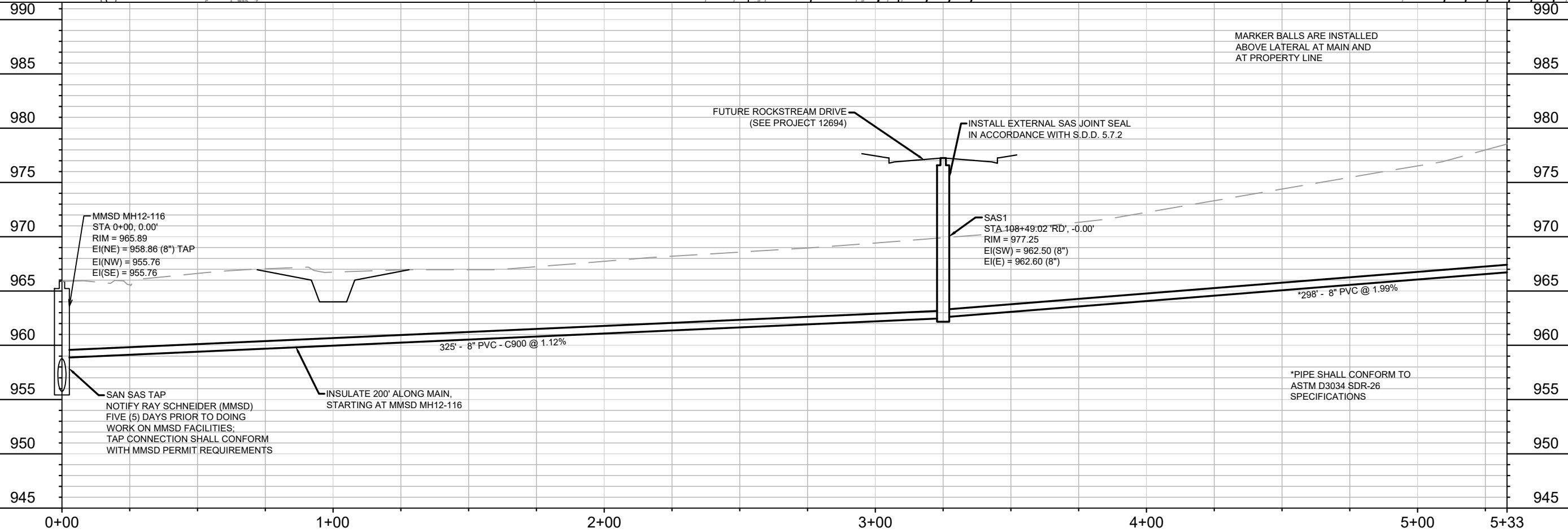
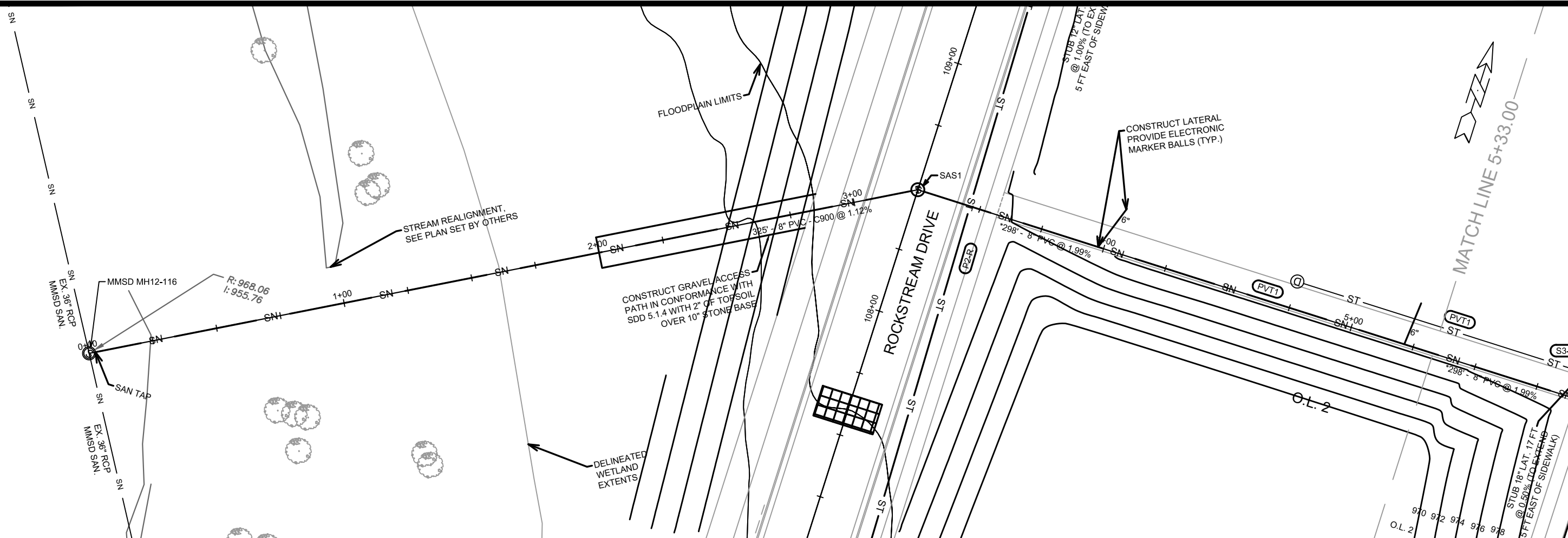
Designed By: MAA Date: 9/8/2020 8:39 AM Scale: 1" = 40'



12310	12310	8402
MADISON, WI	CONTRACT NO:	
FAIRHAVEN ROAD		
U4		
12310		
U-4		

U4
 FAIRHAVEN ROAD
 12310
 U-4

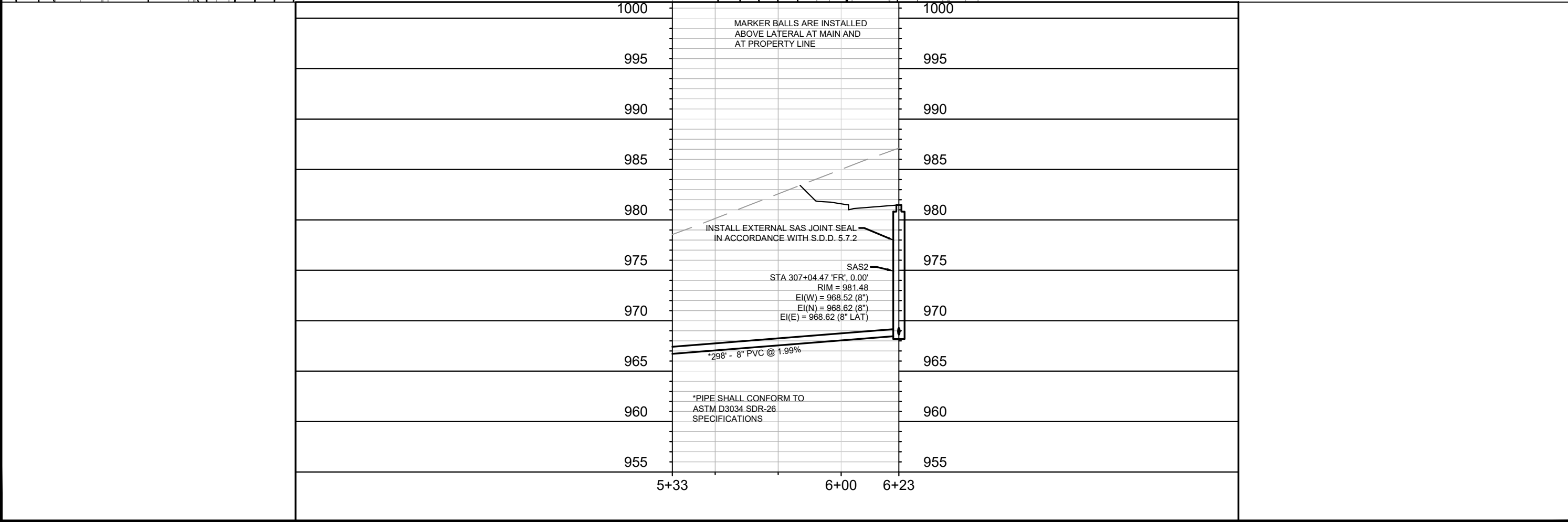
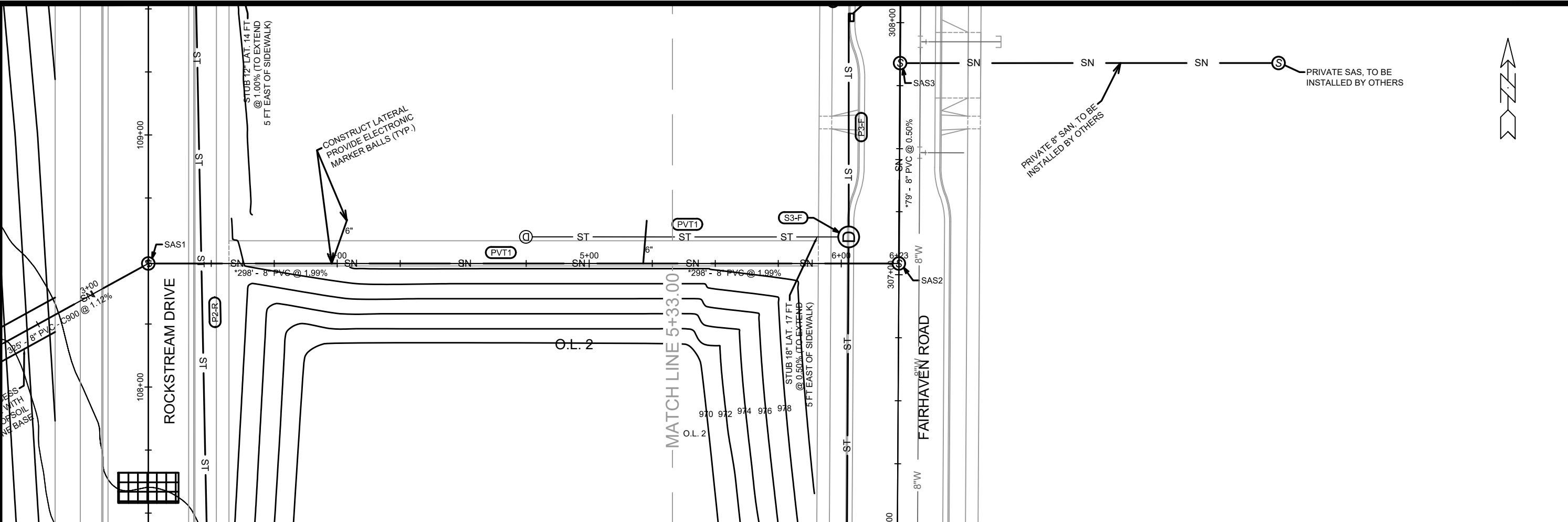
M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg
 Designed By: MAA Date: 9/8/2020 8:40 AM Scale: 1" = 40'
 REVISION DATE BY
 MARK
 12310



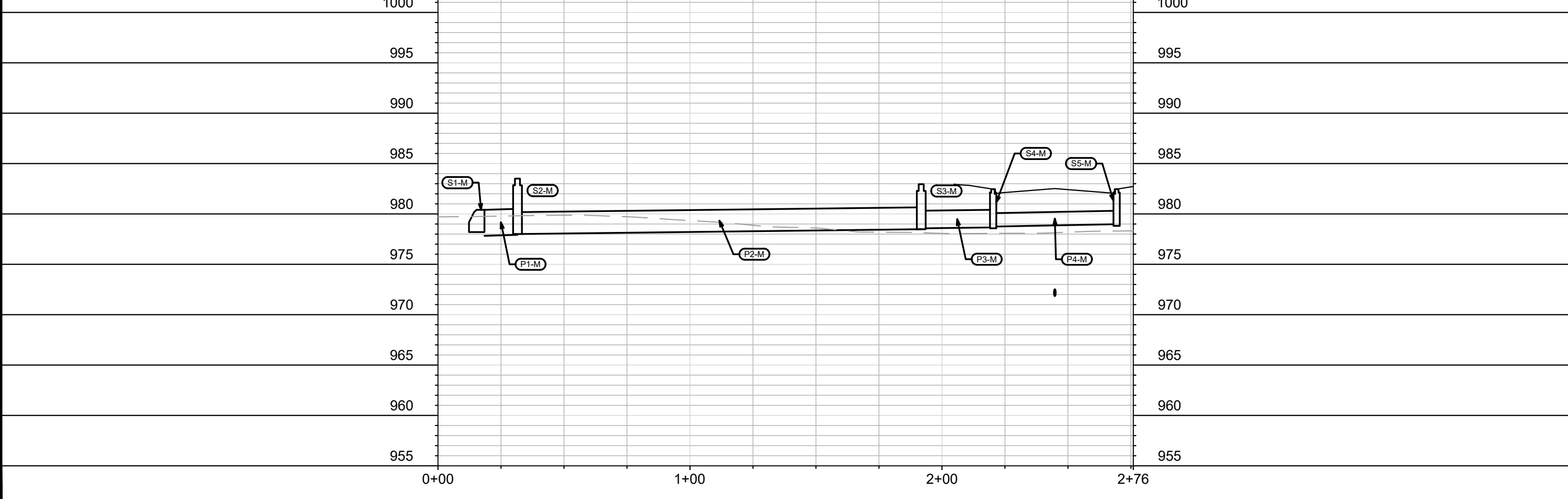
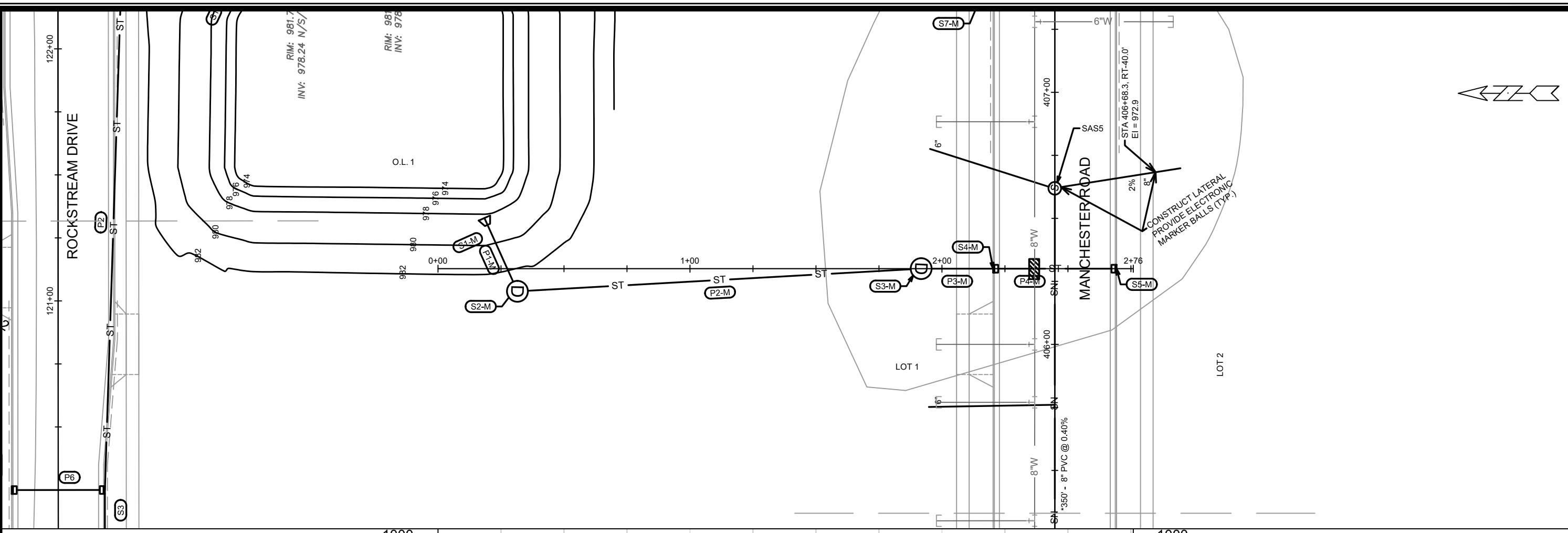
MARK	REVISION	DATE	BY

12310
 MADISON, WI
 CONTRACT NO: 8402

U5
 O.L. SANITARY
 M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg



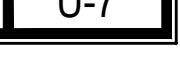
U6	12310	MADISON, WI	8402								
O.L. SANITARY	CONTRACT NO:										
M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg											
<table border="1"> <tr> <th>MARK</th> <th>REVISION</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				MARK	REVISION	DATE	BY				
MARK	REVISION	DATE	BY								
Designed By: MAA Date: 9/8/2020 8:40 AM Scale: 1" = 40' 12310											
12310											
U-6											

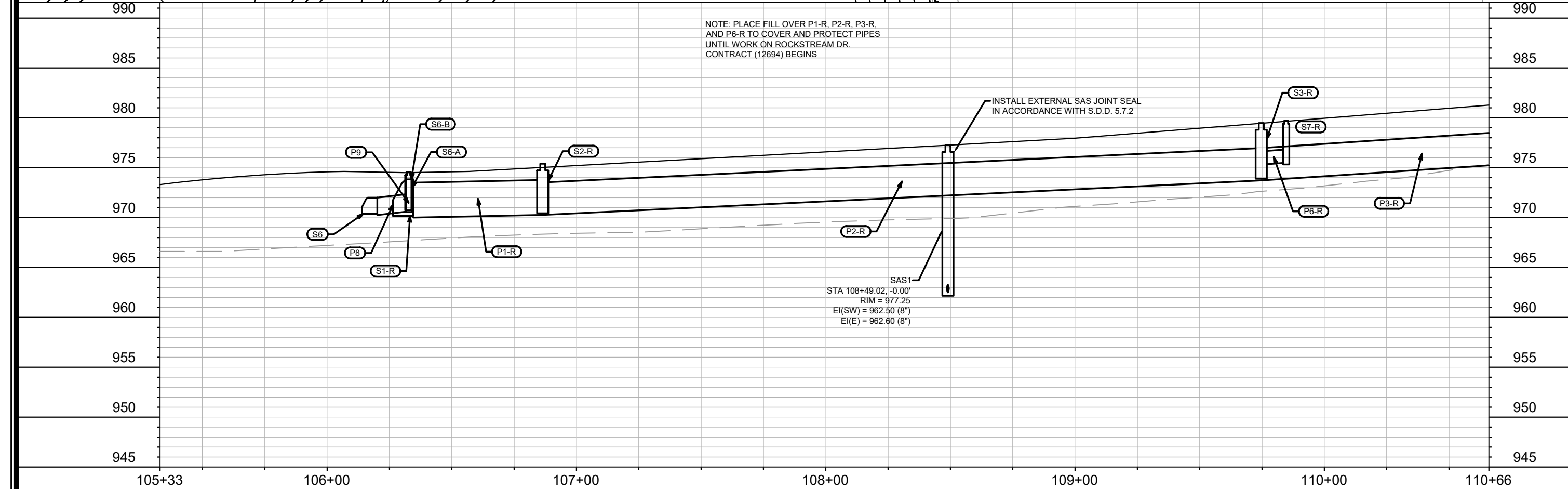
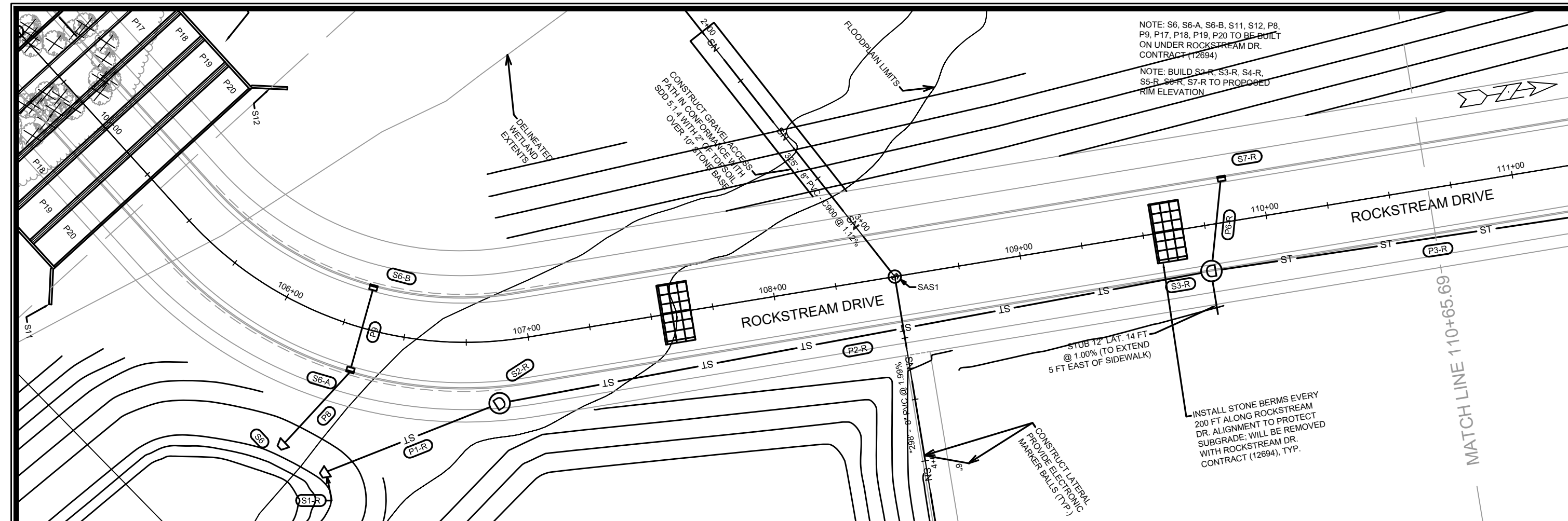


MARK	REVISION	DATE	BY

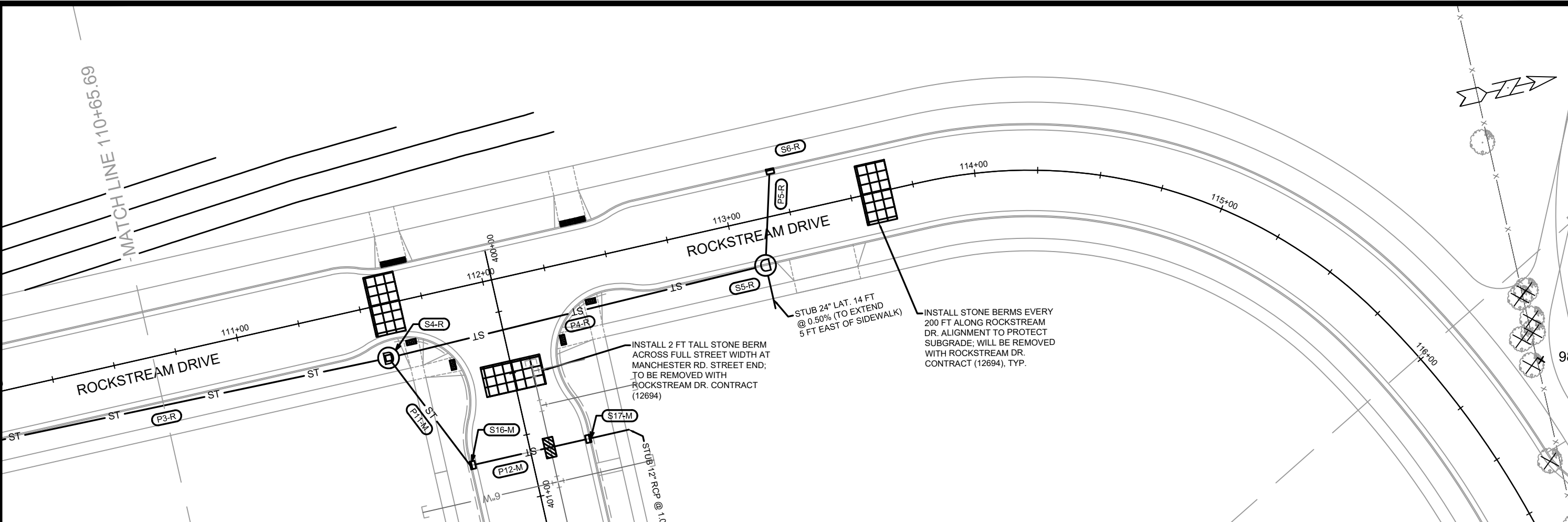
12310
 MADISON, WI
 CONTRACT NO: 8402

U7
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg
 12310
 U-7

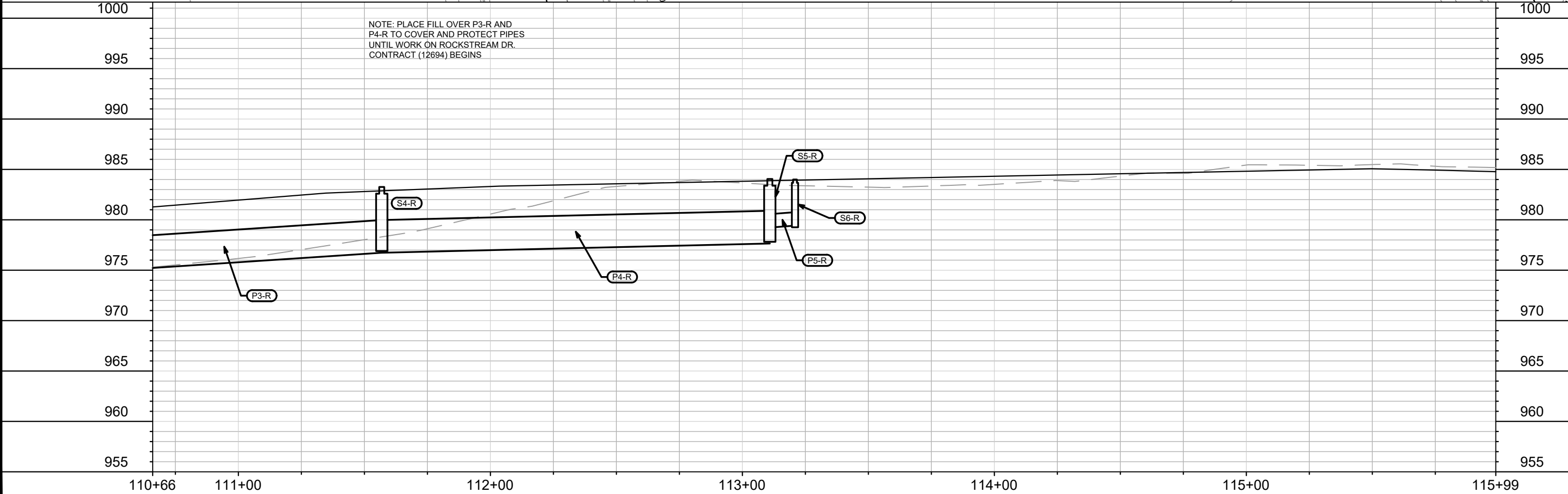




12310	U8	12310	U-8
MARK	REVISION	DATE	BY
DESIGNED BY: MAA	DATE: 9/8/2020 8:40 AM	SCALE: 1" = 40'	
12310		8402	
12310		MADISON, WI	
12310		3840 MAPLE GROVE DRIVE	
U8		M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg	



NOTE: PLACE FILL OVER P3-R AND P4-R TO COVER AND PROTECT PIPES UNTIL WORK ON ROCKSTREAM DR. CONTRACT (12694) BEGINS



MARK	REVISION	DATE	BY
12310	DESIGNED BY: MAA	DATE: 9/8/2020 8:40 AM	SCALE: 1" = 40'

12310
 MADISON, WI
 8402
 CONTRACT NO:

U9
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12694\CAD\Sanitary\12694SAN-STM.dwg

12310
 U-9

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
ROCKSTREAM DR.						
SAS1	108+49.02	CL	977.25	962.50	14.75	[1]; [2]
FAIRHAVEN RD.						
SAS2	307+04.47	CL	981.48	968.52	12.96	[1]
SAS3	307+83.96	CL	982.06	969.02	13.04	[1]
SAS4	310+59.00	CL	984.11	970.50	13.61	[1]
MANCHESTER DR.						
SAS5	406+61.91	CL	982.16	972.00	10.16	[1]

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
ROCKSTREAM OUTLOT								
MMSD MH12-116	SAS1	958.86	962.50	325	1.12%	8"	C900	[3], [4]; [5]; [6]
SAS1	SAS2	962.60	968.52	298	1.99%	8"	SDR-26	-
FAIRHAVEN RD.								
SAS2	SAS3	968.62	969.02	79	0.50%	8"	SDR-26	-
SAS3	SAS4	969.12	970.50	275	0.50%	8"	SDR-26	-
MANCHESTER DR.								
SAS4	SAS5	970.60	972.00	350	0.40%	8"	SDR-26	-

SPECIFIC NOTES:

- [1] INSTALL EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL IN ACCORDANCE WITH S.D.D. 5.7.2
- [2] INSTALL CASTING TO PROPOSED RIM ELEVATION; ROCKSTREAM DR. IS ONLY BUILT UP TO SUBGRADE ELEVATION
- [3] INSTALL INSULATION OVER FIRST 200' OF MAIN STARTING AT MMSD MH12-116
- [4] CONTRACTOR/DEVELOPER SHALL NOTIFY RAY SCHNEIDER (MMSD) AT (608) 347-3628 OR RAYS@MADSEWER.ORG FIVE (5) DAYS PRIOR TO DOING WORK ON MMSD FACILITIES; PERMIT FEE FOR THIS WORK IS THE RESPONSIBILITY OF CONTRACTOR
- [5] ALL WORK ON MMSD MANHOLE SHALL CONFORM TO MMSD PERMIT REQUIREMENTS
- [6] TAP INTO MMSD MH AT SURVEYED BENCH ELEVATION, 958.86

STORM SEWER SCHEDULE

F.R.E.D./MAPLE GROVE DRIVE PROJECT NO. 12310	SHEET NO. U-12
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MAPLE GROVE DRIVE							
S9-M	606+26.0	RT-13.3	TAP	-	977.50	-	AT EX AS2877-040
S10-M	605+50.6	RT-5.4	H INLET	982.50	977.89	4.61	w/ R-3067-7004-V
S11-M	607+39.8	LT-2.9	COLLAR	-	978.21	-	-
S12-M	607+39.6	LT-15.9	H INLET	981.16	978.25	2.91	FP; w/ R-3067-7004-V
S13-M	607+50.0	LT-15.7	H INLET	981.10	978.28	2.82	FP; w/ R-3067-7004-V
S14-M	608+74.9	LT-3.4	COLLAR	-	978.50	-	-
S15-M	608+75.3	LT-13.7	H INLET	981.79	978.54	3.25	w/ R-3067-7004-V
MANCHESTER ROAD							
S1-M	406+50.1	LT-226.4	21" RC AE	-	978.24	-	SEE S.D.D. 5.4.1
S2-M	406+21.0	LT-213.3	3X3 AS	983.51	978.34	5.17	w/ R-3067-7004-V
S3-M	406+30.0	LT-53.0	3X3 AS	982.95	978.82	4.13	FP; w/ R-3067-7004-V
S4-M	406+30.0	LT-24.5	H INLET	982.45	978.91	3.54	FP; w/ R-3067-7004-V
S5-M	406+30.0	RT-24.5	H INLET	982.45	979.15	3.30	FP; w/ R-3067-7004-V
S6-M	408+12.4	LT-31.2	TAP	-	978.82	-	AT EX IN2877-035
S7-M	407+49.5	LT-24.5	3X3 AS	981.01	977.83	3.18	LP; w/ R-3067-7004-V
S8-M	407+49.5	RT-24.5	H INLET	980.99	978.07	2.92	LP; w/ R-3067-7004-V
S16-M	400+82.0	RT-24.5	3X3 AS	982.59	978.41	4.18	LP; w/ R-3067-7004-V
S17-M	400+82.0	LT-24.5	H INLET	982.58	979.05	3.53	LP; w/ R-3067-7004-V
FAIRHAVEN ROAD							
S1-F	304+01.1	LT-65.6	36" RC AE	-	970.50	-	SEE S.D.D. 5.4.1
S2-F	305+08.6	LT-20.5	6X6 AS	976.54	971.08	5.46	FP; w/ R-3067-7004-V
S3-F	307+14.9	LT-20.5	4X4 AS	981.64	976.46	5.18	w/ R-3067-7004-V
S4-F	308+02.0	LT-20.5	3X3 AS	982.09	977.66	4.43	w/ R-3067-7004-V
S5-F	308+40.0	RT-20.5	3X3 AS	982.27	978.11	4.16	w/ R-3067-7004-V
S6-F	305+43.9	RT-24.0	4X4 AS	977.69	972.12	5.58	w/ R-3067-7004-V
S7-F	303+59.6	LT-58.5	24" RC AE	-	970.50	-	SEE S.D.D. 5.4.1
S8-F	303+60.0	LT-20.5	TYPE II TERR. INLET	973.92	970.72	3.20	[1]; FP; LP
S9-F	303+60.0	RT-20.5	H INLET	973.92	970.93	2.99	FP; LP; w/ R-3067-7004-V
S10-F	301+41.0	LT-20.5	H INLET	970.89	967.43	3.46	w/ R-3067-7004-V
S11-F	301+62.8	LT-20.5	H INLET	970.79	967.55	3.24	LP; w/ R-3067-7004-V
S12-F	301+23.0	RT-19.1	TAP	-	967.43	-	AT EX IN2778-027
S13-F	301+61.0	RT-20.5	H INLET	970.79	967.55	3.24	FP; LP; w/ R-3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM (DISCH.)	TO (INLET)	DISCH. E.I.	INLET E.I.	PIPE LGTH (FT)	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PIPE TYPE	NOTES
MAPLE GROVE DRIVE										
P7-M	S9-M	S10-M	977.50	977.89	77.8	76.3	0.50%	12"	TYPE I	-
P8-M	S11-M	S12-M	978.21	978.25	13.0	11.5	0.30%	15"	TYPE I	-
P9-M	S12-M	S13-M	978.25	978.28	10.4	8.4	0.30%	12"	TYPE I	-
P10-M	S14-M	S15-M	978.50	978.54	8.7	5.7	0.51%	12"	TYPE I	-
MANCHESTER ROAD										
P1-M	S1-M	S2-M	978.24	978.34	31.9	30.4	0.31%	21"	TYPE I	-
P2-M	S2-M	S3-M	978.34	978.82	160.5	157.5	0.30%	18"	TYPE I	-
P3-M	S3-M	S4-M	978.82	978.91	28.5	25.5	0.32%	15"	TYPE I	-
P4-M	S4-M	S5-M	978.91	979.15	49.0	46.0	0.50%	12"	TYPE I	-
P5-M	S6-M	S7-M	977.50	977.83	65.2	62.2	0.50%	15"	TYPE I	-
P6-M	S7-M	S8-M	977.83	978.07	49.0	46.0	0.50%	12"	TYPE I	-
P11-M	S4-R	S9-M	977.98	978.41	53.6	52.5	0.80%	15"	TYPE I	-
P12-M	S9-M	S10-M	978.66	979.05	49.0	46.0	0.80%	12"	TYPE I	-
FAIRHAVEN ROAD										
P1-F	S1-F	S2-F	970.50	971.08	116.8	113.8	0.50%	36"	TYPE I	-
P2-F	S2-F	S3-F	972.33	976.46	206.3	201.8	2.00%	21"	TYPE I	-
P3-F	S3-F	S4-F	976.96	977.66	87.1	84.6	0.80%	15"	TYPE I	-
P4-F	S4-F	S5-F	977.66	978.11	55.9	52.7	0.80%	15"	TYPE I	-
P5-F	S2-F	S6-F	971.58	972.12	53.3	48.3	1.00%	30"	TYPE I	-
P6-F	S7-F	S8-F	970.50	970.72	38	35.7	0.58%	24"	TYPE I	-
P7-F	S8-F	S9-F	970.72	970.93	41.0	38.0	0.51%	15"	TYPE I	-
P8-F	S11-F	S12-F	967.43	967.55	24.8	22.8	0.50%	12"	TYPE I	-
P9-F	S13-F	S14-F	967.89	968.06	34.3	32.3	0.50%	12"	TYPE I	-

SPECIFIC NOTES:

[1] PER S.D.D. 5.7.12A

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.

-KOR N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO PRECAST INLETS. IN ADDITION, KOR N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTIONS TO SAS STORM STRUCTURES. CONCRETE COLLARS OR KOR N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

-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.

- 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 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 MATT ALLIE OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

F.R.E.D./MAPLE GROVE DRIVE PROJECT NO. 12310	SHEET NO. U-13
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
ROCKSTREAM DRIVE							
S1-R	106+34.5	RT-59.2	30" RC AE	-	970.50	-	SEE S.D.D. 5.4.1
S2-R	106+86.5	RT-25.0	4X4 AS	975.40	970.77	4.63	[1]; FP; w/ R-1550-0054
S3-R	109+75.0	RT-18.5	4X4 AS	979.51	974.22	5.29	[1]; FP; w/ R-3067-7004-V
S4-R	111+56.9	RT-21.2	4X4 AS	983.03	977.23	5.80	[1]; w/ R-1550-0054
S5-R	113+11.0	RT-18.5	4X4 AS	984.04	978.15	5.89	[1]; w/ R-3067-7004-V
S6-R	113+21.0	LT-18.5	H INLET	983.98	979.59	4.39	[1]; w/ R-3067-7004-V
S7-R	109+85.0	LT-18.5	H INLET	979.72	975.66	4.06	[1]; w/ R-3067-7004-V

REMOVE STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	ID NO.
MANCHESTER ROAD				
R1	407+83.0	LT-33.5	AE	AE 2777-002
MAPLE GROVE DRIVE				
R2	608+75.2	LT-5.0	H INLET	IN 2777-004
FAIRHAVEN ROAD				
R3	301+41.5	LT-20.9	H INLET	IN 2778-028

ADJUST STORM STRUCTURE RIMS

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP. RIM ELEV.	ADJ. HEIGHT	NOTES
FAIRHAVEN ROAD						
IN 2778-027	301+21.3	RT-19.1	971.09	971.09	0.00	-

PROPOSED STORM PIPES

PIPE NO.	FROM (DISCH.)	TO (INLET)	DISCH. E.I.	INLET E.I.	PIPE LGTH (FT)	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PIPE TYPE	NOTES
ROCKSTREAM DRIVE										
P1-R	S1-R	S2-R	970.50	970.77	53.3	51.3	0.51%	30"	TYPE I	-
P2-R	S2-R	S3-R	970.77	974.22	314.0	310.0	1.10%	27"	TYPE I	-
P3-R	S3-R	S4-R	974.22	977.23	182.2	178.2	1.65%	27"	TYPE I	-
P4-R	S4-R	S5-R	977.23	978.15	154.0	150.0	0.60%	27"	TYPE I	-
P5-R	S5-R	S6-R	979.40	979.59	38.3	34.8	0.50%	12"	TYPE I	-
P6-R	S3-R	S7-R	975.47	975.66	38.3	34.8	0.50%	12"	TYPE I	-

REMOVE STORM PIPES

PIPE NO.	FROM (DISCH.)	TO (INLET)	PIPE LGTH (FT)	PAID (Y/N)	PAY LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
MANCHESTER ROAD								
RP1	AE 2777-002	AS 2877-035	31.2	N	-	30"	RCP	-

SPECIFIC NOTES:

[1] INSTALL STRUCTURE TO PROPOSED RIM ELEVATION; ROCKSTREAM DR. IS ONLY BUILT TO SUBGRADE ELEVATION; CASTINGS WILL BE ADJUSTED ON PROJECT 12694

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.

-KOR N SEAL BOOTS OR EQUIVALENT SHALL BE USED FOR ALL PIPE CONNECTIONS TO PRECAST INLETS. IN ADDITION, KOR N SEAL BOOTS SHALL BE REQUIRED FOR ANY TYPE II PIPE CONNECTIONS TO SAS STORM STRUCTURES. CONCRETE COLLARS OR KOR N SEAL MAY BE USED FOR ANY RCP OR HERCP CONNECTIONS TO SAS STORM STRUCTURES.

-ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.

-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.

- 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

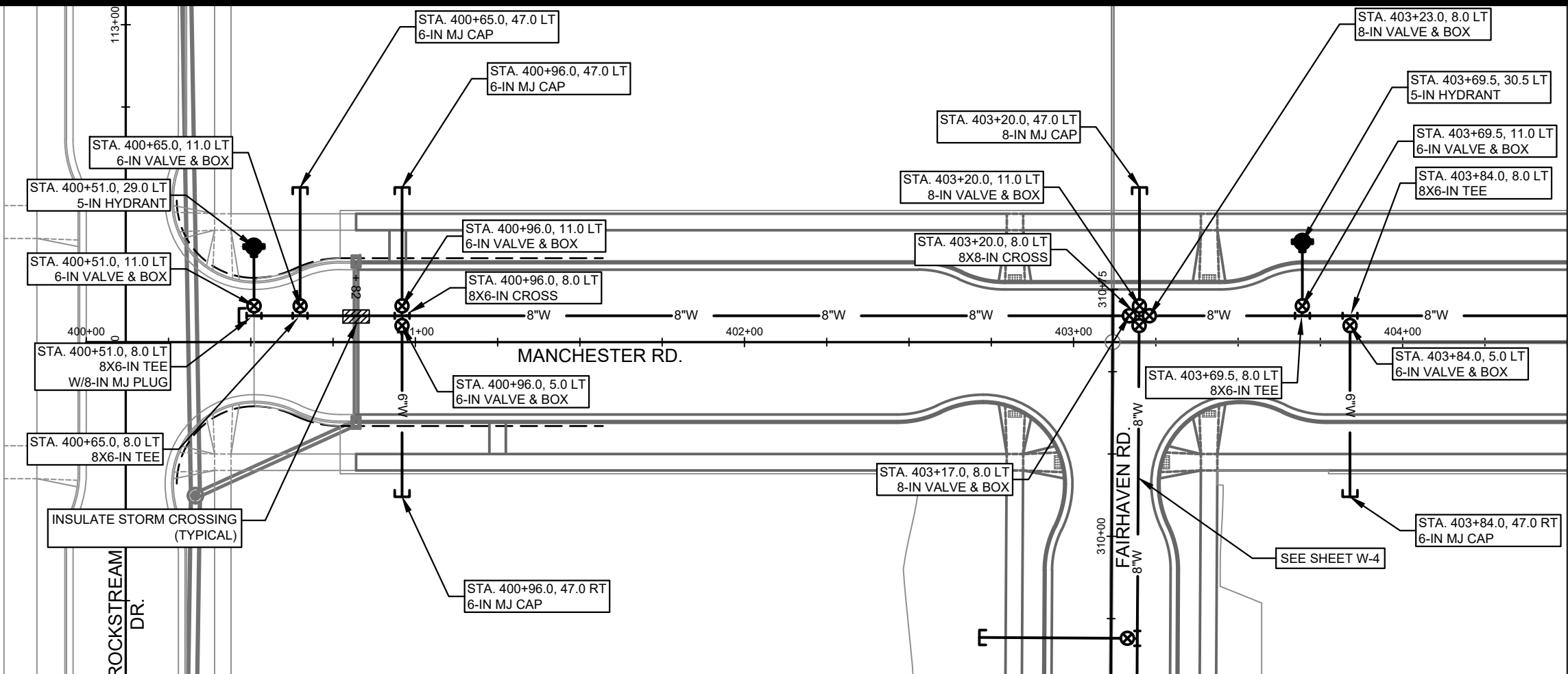
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.

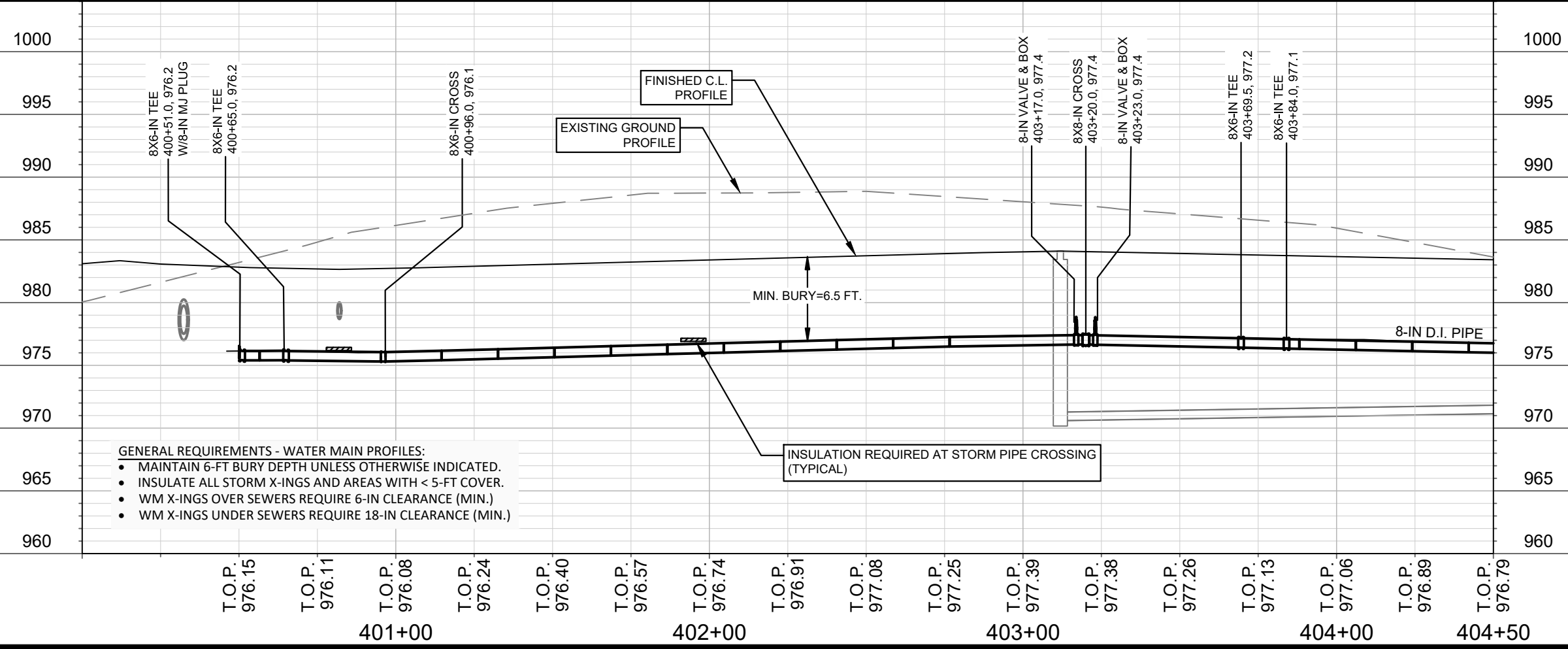
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL 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 MATT ALLIE OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.



MATCH LINE STA. 404+50



- 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.)

SCALE: 1" = 40'
 DESIGNED BY: DAR
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 9/8/20

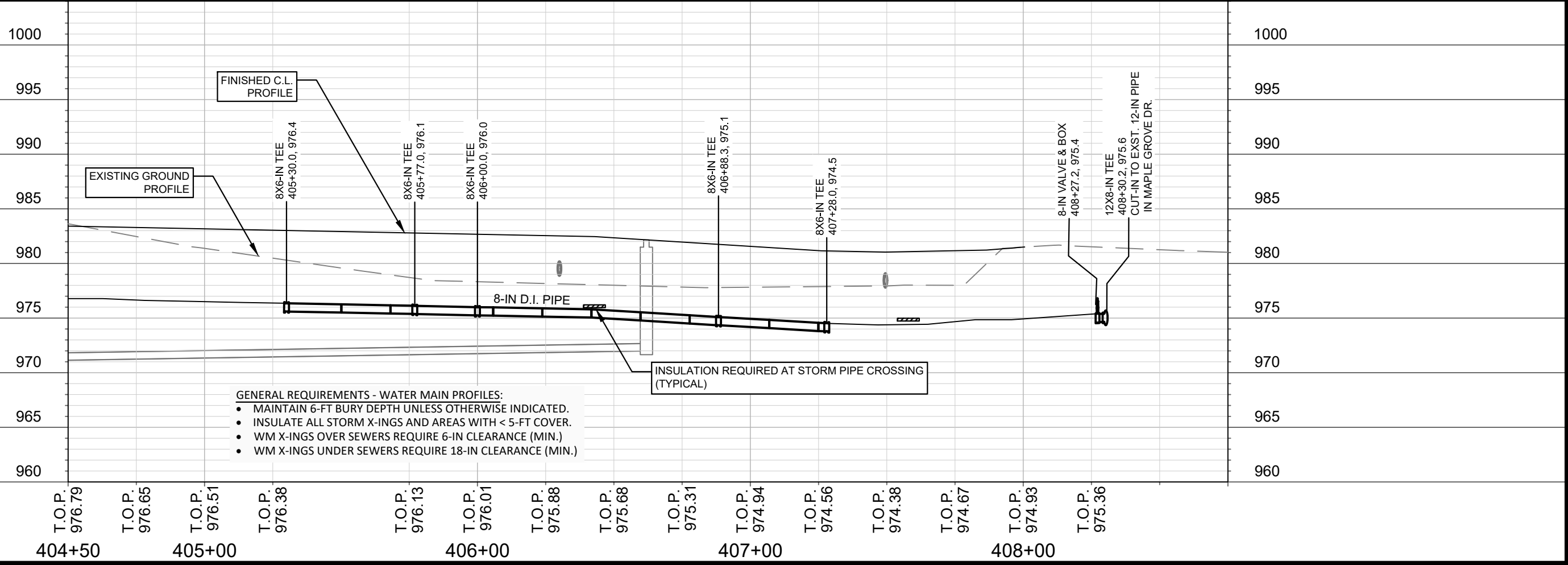
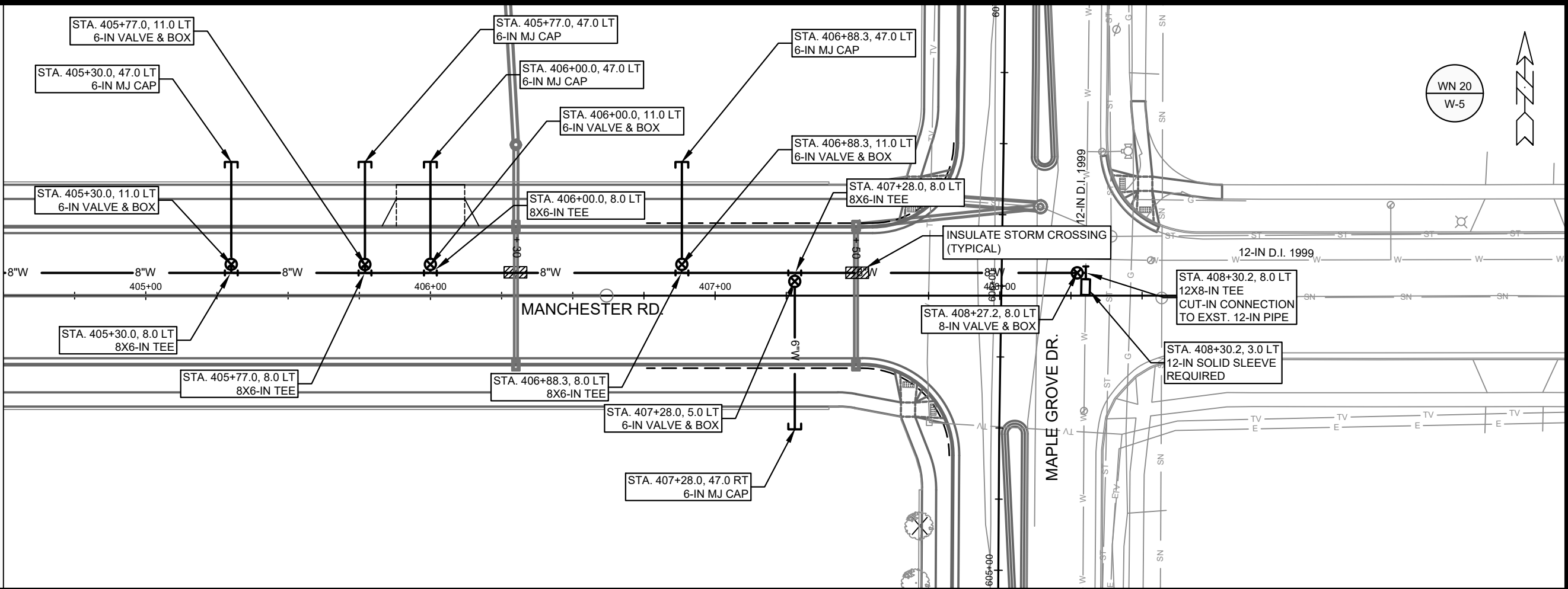
CONTRACT NO: 8402

3840 MAPLE GROVE DRIVE
 PLAN & PROFILE: MANCHESTER RD WATER
CITY OF MADISON, WISCONSIN



12310
 W-1

MATCH LINE STA. 404+50



- 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.)

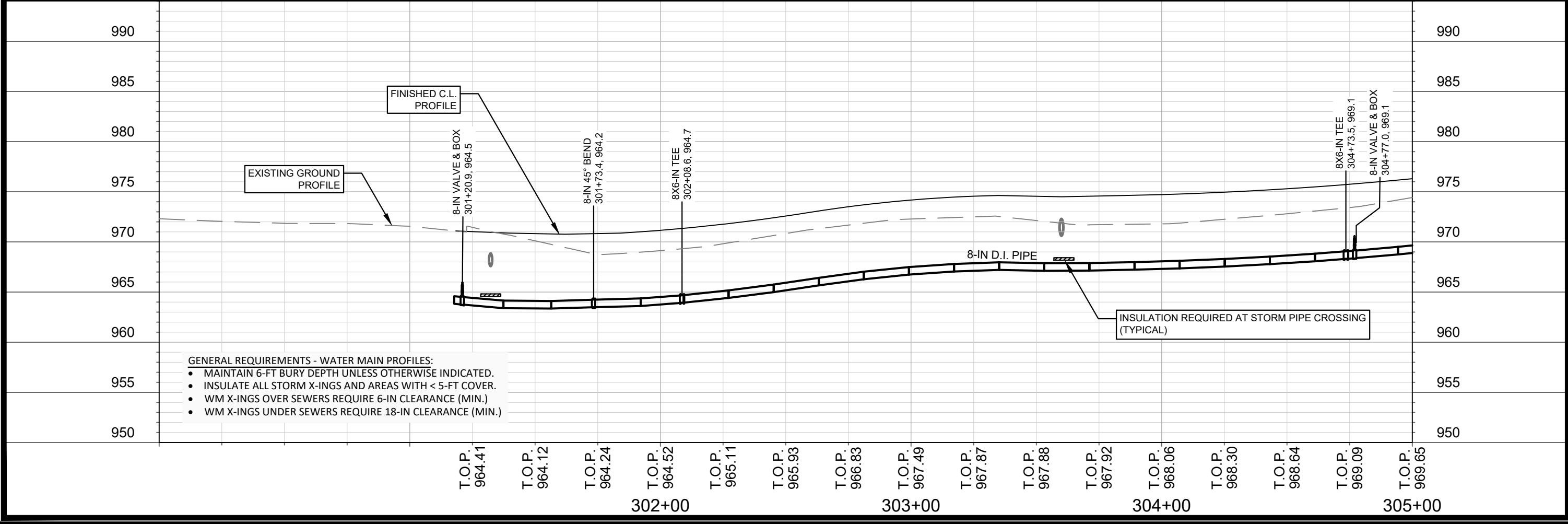
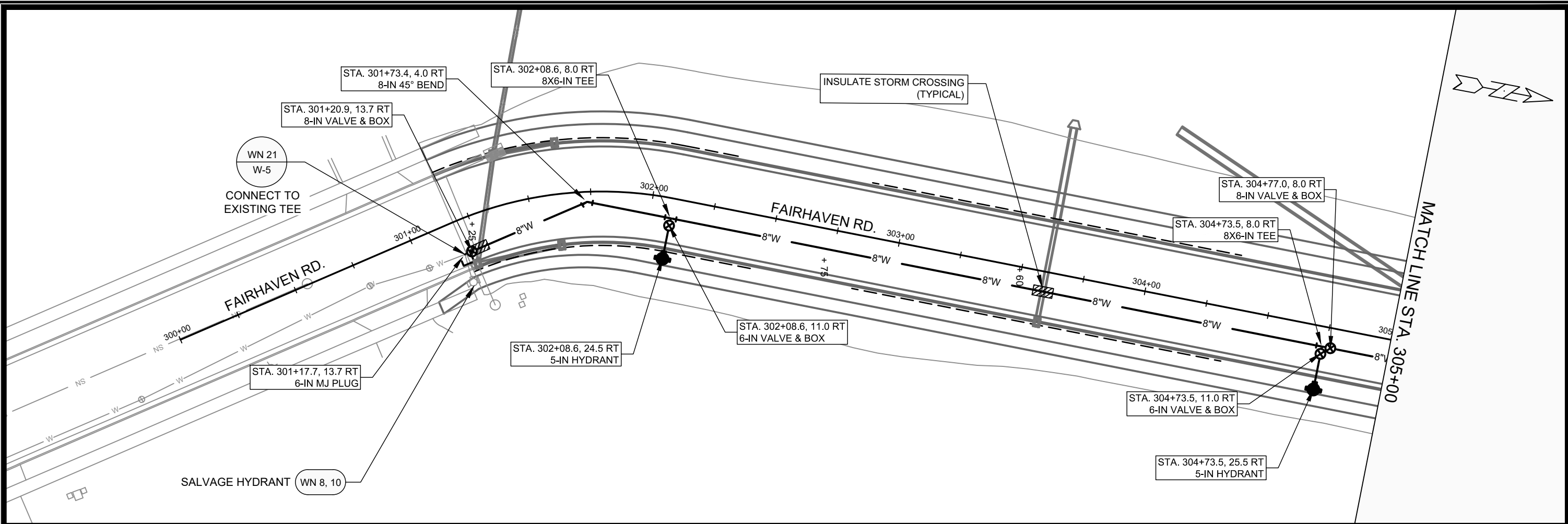
SCALE: 1" = 40'

DESIGNED BY: DAR
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 9/8/20

3840 MAPLE GROVE DRIVE
PLAN & PROFILE: MANCHESTER RD WATER
CITY OF MADISON, WISCONSIN

12310
W-2

CONTRACT NO: 8402




- 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.)

SCALE: 1" = 40'
 DESIGNED BY: DAR
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 9/8/20

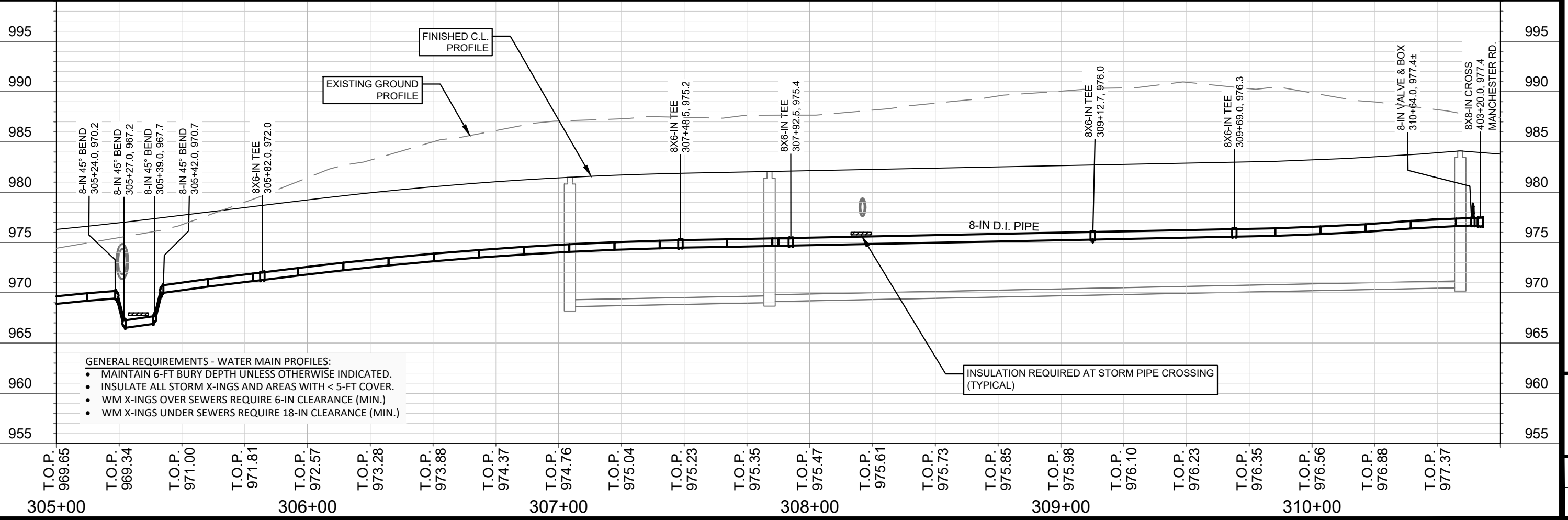
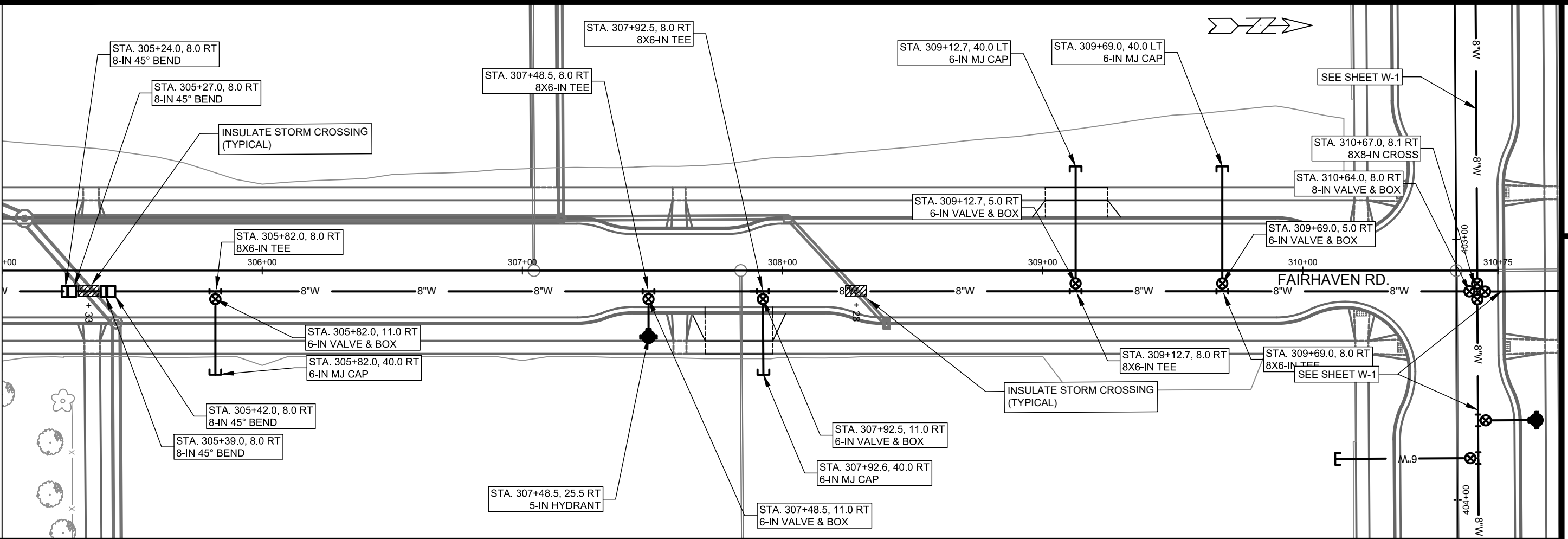
3840 MAPLE GROVE DRIVE
PLAN & PROFILE: FAIRHAVEN RD WATER
CITY OF MADISON, WISCONSIN

CONTRACT NO: 8402



12310
W-3

MATCH LINE STA. 305+00



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

SCALE: 1" = 40'
 DESIGNED BY: DAR
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 9/8/20

CONTRACT NO: 8402

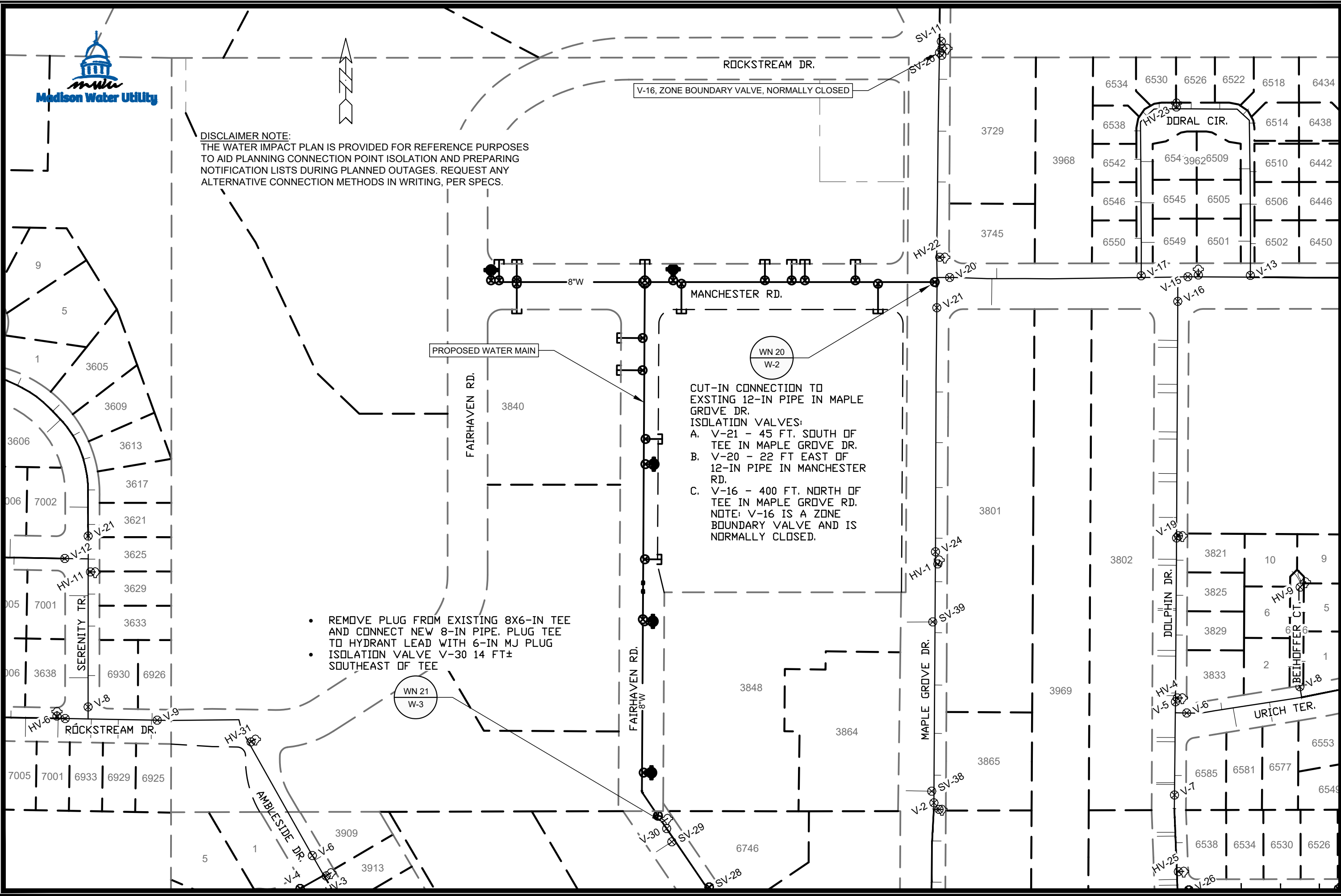
3840 MAPLE GROVE DRIVE
 PLAN & PROFILE: FAIRHAVEN RD WATER
CITY OF MADISON, WISCONSIN



12310
 W-4



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.



PROPOSED WATER MAIN

WN 20
W-2

CUT-IN CONNECTION TO EXISTING 12-IN PIPE IN MAPLE GROVE DR.
 ISOLATION VALVES:
 A. V-21 - 45 FT. SOUTH OF TEE IN MAPLE GROVE DR.
 B. V-20 - 22 FT EAST OF 12-IN PIPE IN MANCHESTER RD.
 C. V-16 - 400 FT. NORTH OF TEE IN MAPLE GROVE DR.
 NOTE: V-16 IS A ZONE BOUNDARY VALVE AND IS NORMALLY CLOSED.

- REMOVE PLUG FROM EXISTING 8X6-IN TEE AND CONNECT NEW 8-IN PIPE. PLUG TEE TO HYDRANT LEAD WITH 6-IN MJ PLUG
- ISOLATION VALVE V-30 14 FT± SOUTHEAST OF TEE

WN 21
W-3

SCALE: 1" = 150'
 DESIGNED BY: DAR
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 9/8/20

CONTRACT NO: 8402

3840 MAPLE GROVE DRIVE
 WATER IMPACT PLAN
 CITY OF MADISON, WISCONSIN



12310
W-5



CONSTRUCTION NOTES:

- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----|--|------|---|------|--|------|---|------|-------------------------------------|------|---------------------------------------|------|---|------|------------------------|------|---|-------|-------------------------------------|-------|---|--------|---|
| <ol style="list-style-type: none"> CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE. 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. | <table border="0"> <tr><td>WN1</td><td>REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.</td></tr> <tr><td>WN-2</td><td>EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.</td></tr> <tr><td>WN-3</td><td>EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.</td></tr> <tr><td>WN-4</td><td>DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.</td></tr> <tr><td>WN-5</td><td>RELOCATE THE EXISTING FIRE HYDRANT.</td></tr> <tr><td>WN-6</td><td>ABANDON WATER VALVE ACCESS STRUCTURE.</td></tr> <tr><td>WN-7</td><td>FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.</td></tr> <tr><td>WN-8</td><td>ABANDON THE VALVE BOX.</td></tr> <tr><td>WN-9</td><td>FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.</td></tr> <tr><td>WN-10</td><td>REMOVE AND SALVAGE EXISTING HYDRANT</td></tr> <tr><td>WN-11</td><td>REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE</td></tr> <tr><td>WN-20+</td><td>SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.</td></tr> </table> | WN1 | REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE. | WN-2 | EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN. | WN-3 | EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF. | WN-4 | DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN. | WN-5 | RELOCATE THE EXISTING FIRE HYDRANT. | WN-6 | ABANDON WATER VALVE ACCESS STRUCTURE. | WN-7 | FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE. | WN-8 | ABANDON THE VALVE BOX. | WN-9 | FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL. | WN-10 | REMOVE AND SALVAGE EXISTING HYDRANT | WN-11 | REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE | WN-20+ | SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION. |
| WN1 | REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-2 | EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-3 | EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-4 | DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-5 | RELOCATE THE EXISTING FIRE HYDRANT. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-6 | ABANDON WATER VALVE ACCESS STRUCTURE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-7 | FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-8 | ABANDON THE VALVE BOX. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-9 | FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL. | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-10 | REMOVE AND SALVAGE EXISTING HYDRANT | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-11 | REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE | | | | | | | | | | | | | | | | | | | | | | | | |
| WN-20+ | SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION. | | | | | | | | | | | | | | | | | | | | | | | | |

SCALE: NA
 DESIGNED BY: DAR
 MADISON WATER UTILITY
 119 E OLIN AVE, MADISON, WI 53713
 PRINTING DATE: 9/8/20

CONTRACT NO: 8402

3840 MAPLE GROVE DRIVE
 WATER ESTIMATE OF MATERIALS
CITY OF MADISON, WISCONSIN



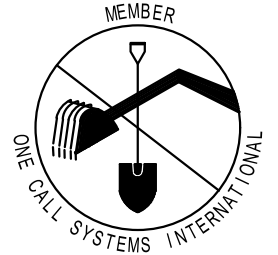
12310
 W-6

*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:			
PAY ITEM ID	DESCRIPTION	QUANTITY	UNIT
70002	FURNISH AND INSTALL 6-INCH PIPE & FITTINGS	635	LNFT
70003	FURNISH AND INSTALL 8-INCH PIPE & FITTINGS	1745	LNFT
70005	FURNISH AND INSTALL 12-INCH PIPE & FITTINGS	5	LNFT
70031	FURNISH AND INSTALL 6-INCH WATER VALVE	18	EACH
70032	FURNISH AND INSTALL 8-INCH WATER VALVE	7	EACH
70040	FURNISH INSTALL AND SALVAGE HYDRANT	5	EACH
70080	CUT-IN OR CONNECT TO EXISTING WATER SYSTEM	2	EACH
70101	FURNISH AND INSTALL STYROFOAM	56	LNFT
71001	6-IN MJ CAP	13	EACH
71002	8-IN MJ CAP	1	EACH
71013	6-IN MJ PLUG	1	EACH
71014	8-IN MJ PLUG	1	EACH
71028	12-IN SOLID SLEEVE	1	EACH
71040	8X6-IN CROSS	1	EACH
71041	8X8-IN CROSS	1	EACH
71123	8-IN 45° BEND	5	EACH
71210	8X6-IN TEE	16	EACH
71218	12X8-IN TEE	1	EACH
*ESTIMATE OF MATERIALS SUPPLIED BY WATER UTILITY:			
*ESTIMATE OF MATERIALS SALVAGED:			
70040	5-IN HYDRANT	1	
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.			

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

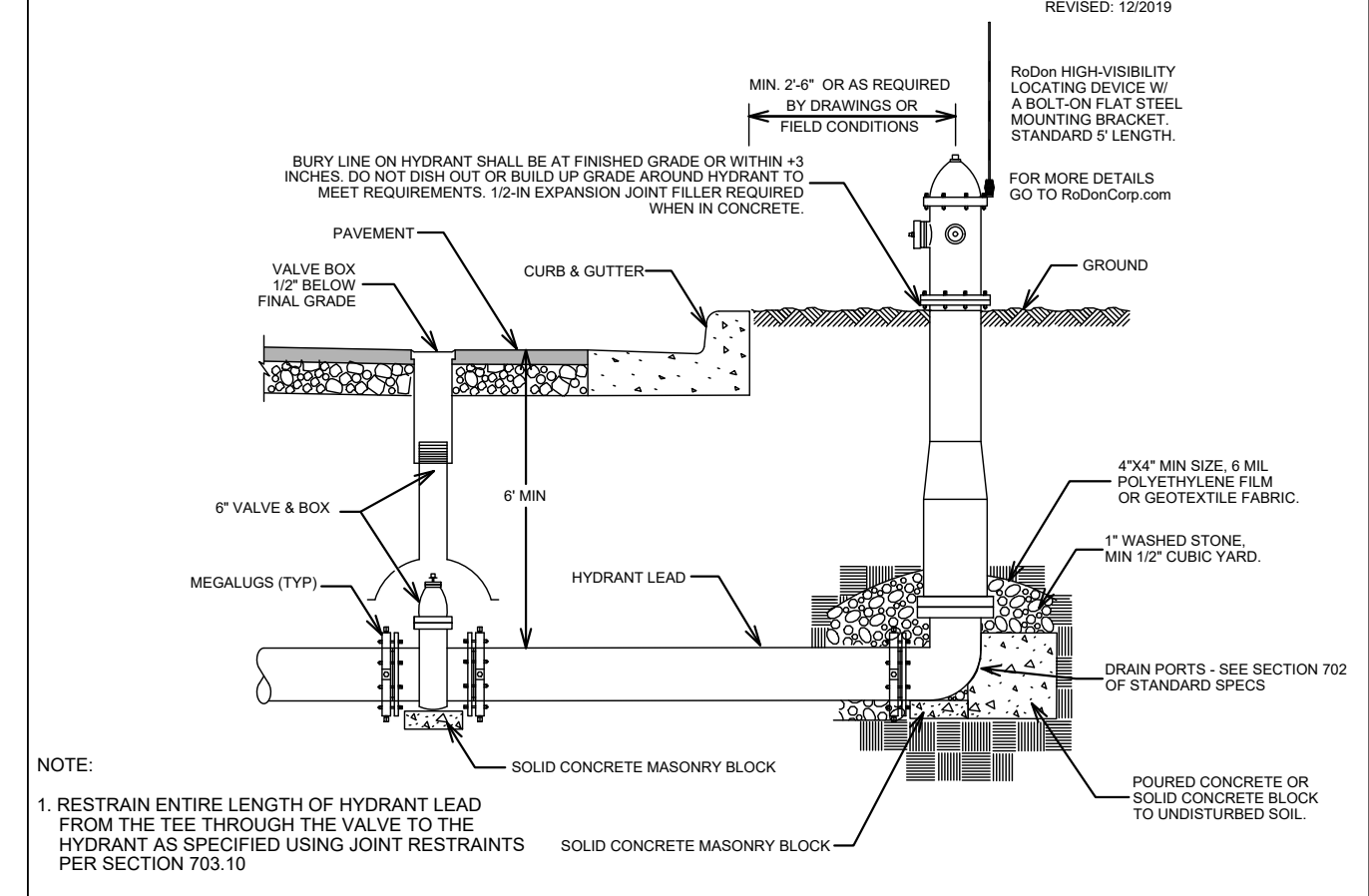
CALL DIGGERS HOTLINE
 TOLL FREE
 811 OR 1-800-242-8511
 FAX-A-LOCATE 1-800-338-3860
 TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

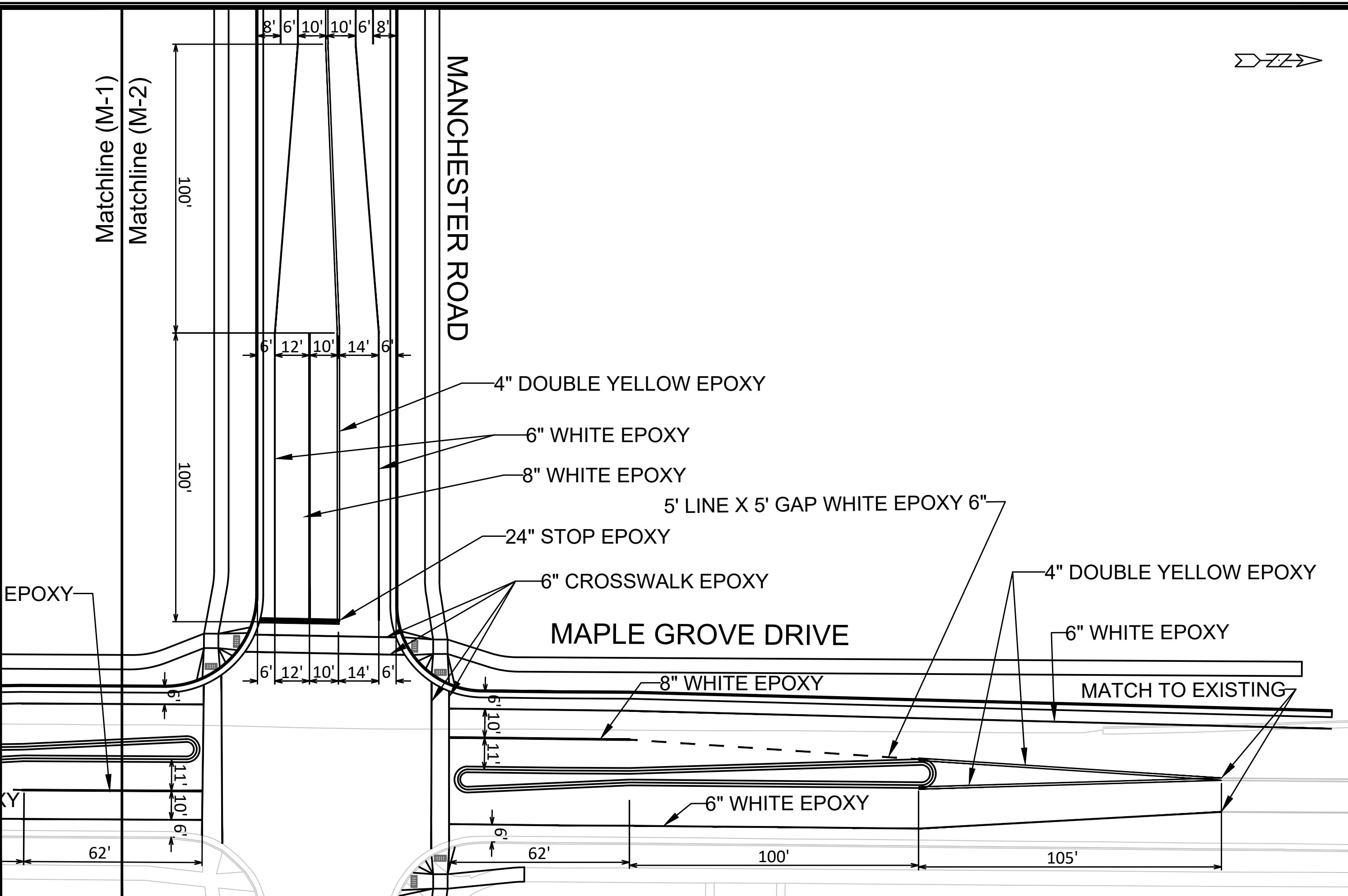


DISCLAIMER NOTE: UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

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



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



MARK	REVISION	DATE	BY
12310	12310	04/02/2020	SDM
Designed By: SDM			Scale: 1:30
Contract No: 12310			M-2

PAVEMENT MARKING PLAN


12310

MADISON, WI

3840 MAPLE GROVE DRIVE

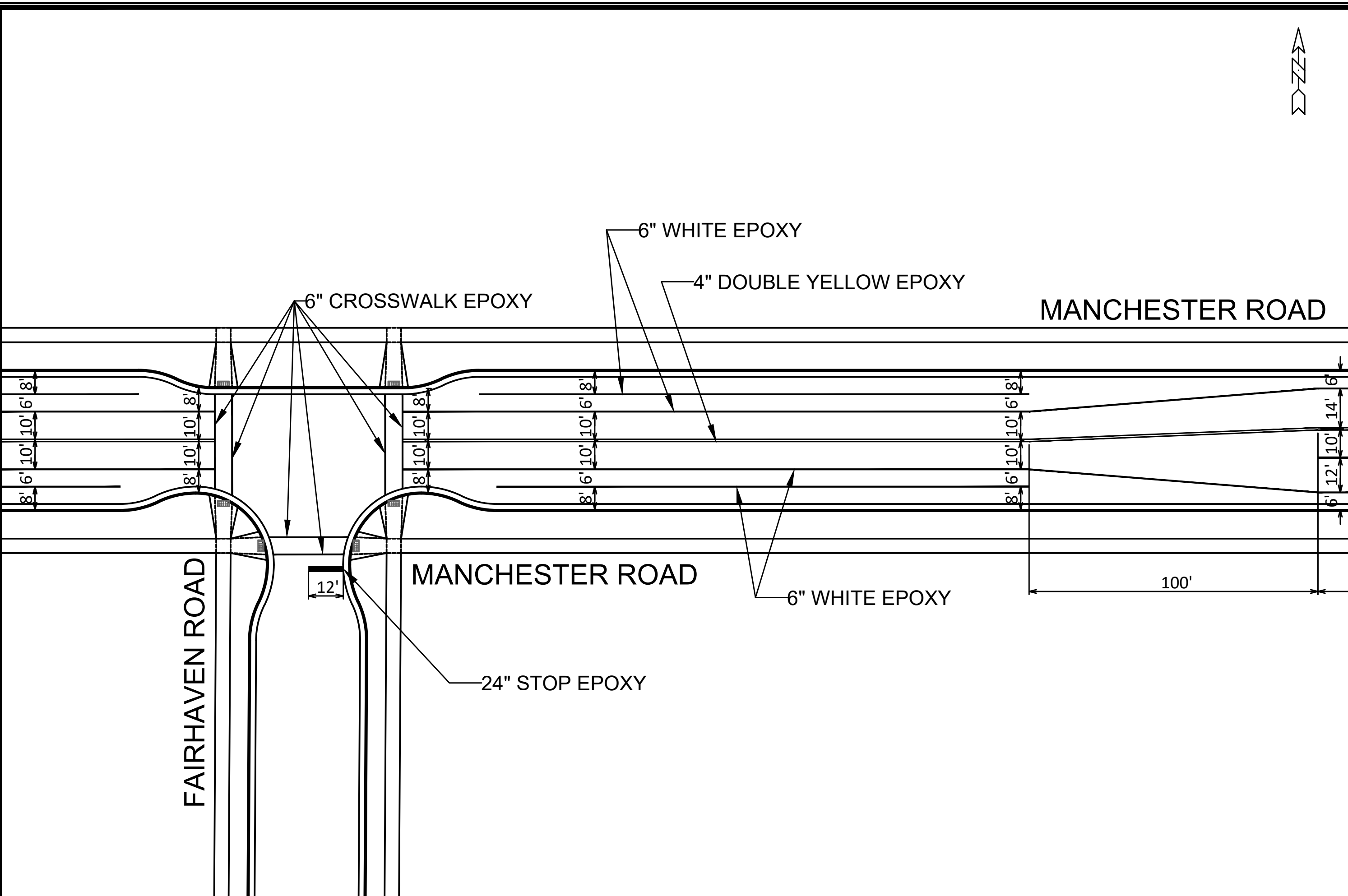
CONTRACT NO: 8402

M:\DESIGN\Projects\12310\CAD\Traffic\12310TE-Pvmt-Mrk.dwg



12310

M-2



MANCHESTER ROAD

MANCHESTER ROAD

FAIRHAVEN ROAD

6" WHITE EPOXY

4" DOUBLE YELLOW EPOXY

6" CROSSWALK EPOXY

6" WHITE EPOXY

24" STOP EPOXY

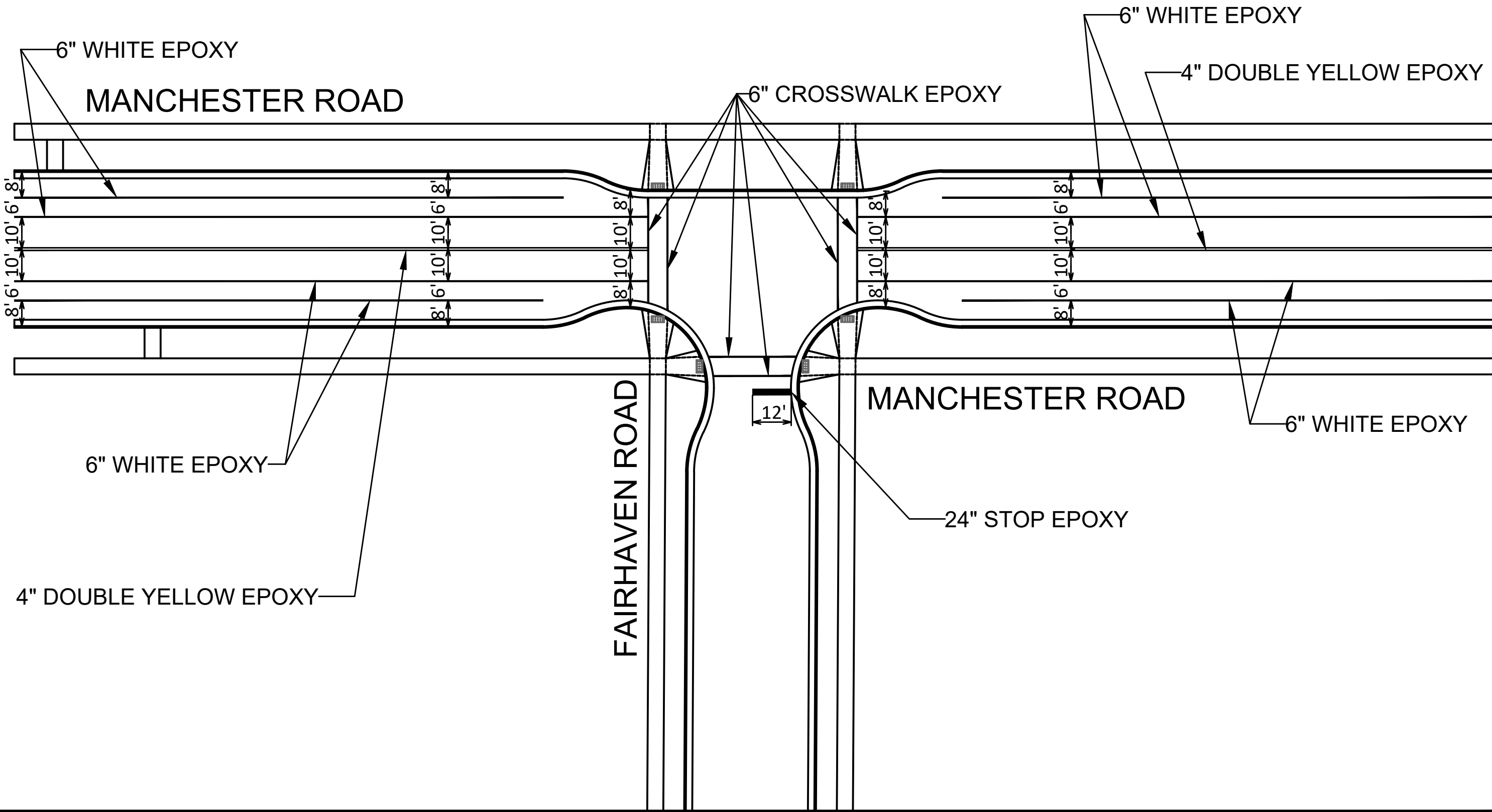
MARK	REVISION	DATE	BY
12310	04/02/2020		

12310
MADISON, WI
8402
CONTRACT NO:

PAVEMENT MARKING PLAN
3840 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Traffic\12310TE-P\vt-Mrk.dwg



12310
M-3



MARK	REVISION	DATE	BY

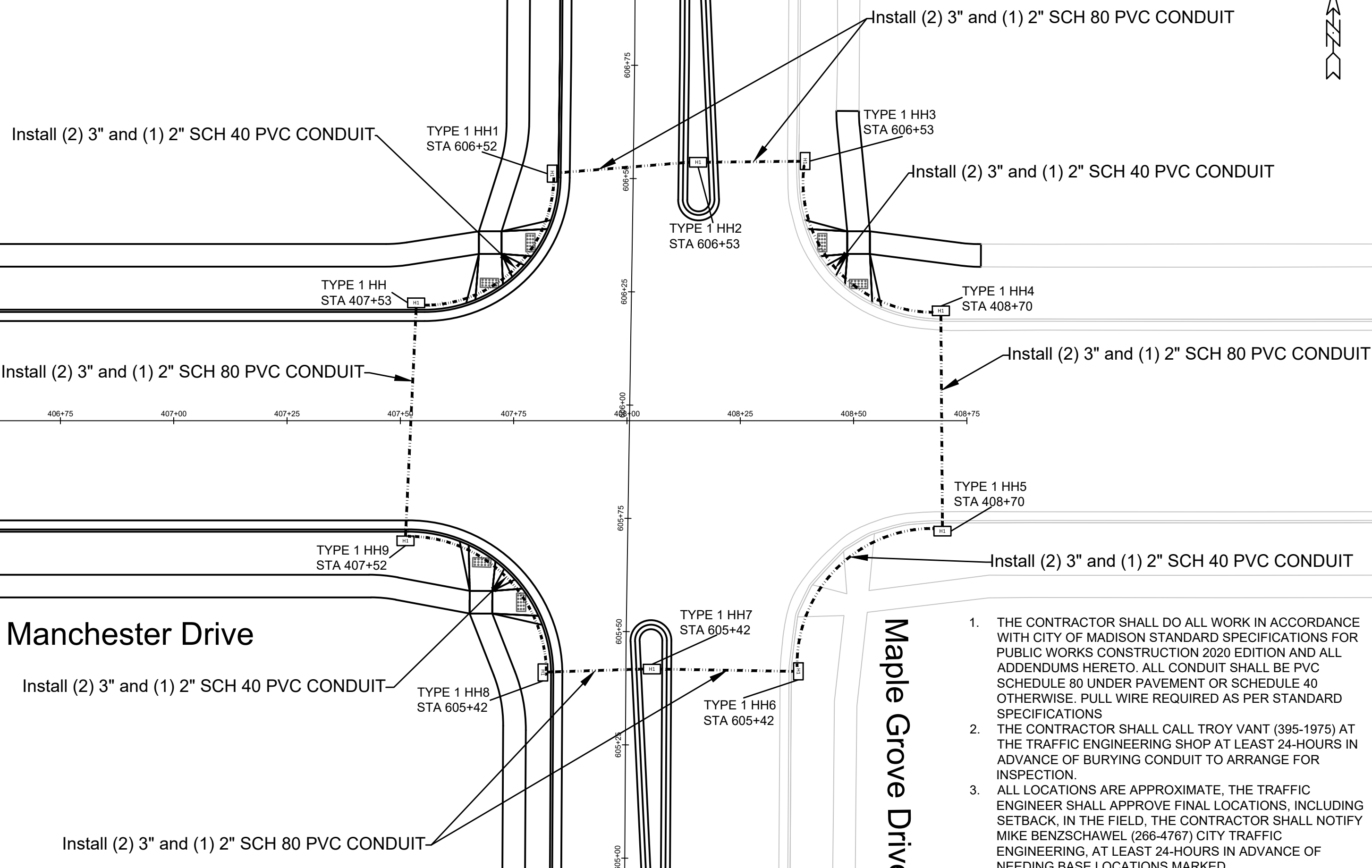
12310
 MADISON, WI
 8402
 CONTRACT NO:

PAVEMENT MARKING PLAN
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12310\CAD\Traffic\12310TE-Pvmt-Mrk.dwg



12310
 M-4

Described By: SDM
 Date: 04/02/2020
 Scale: 1:30
 M-4



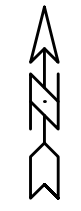
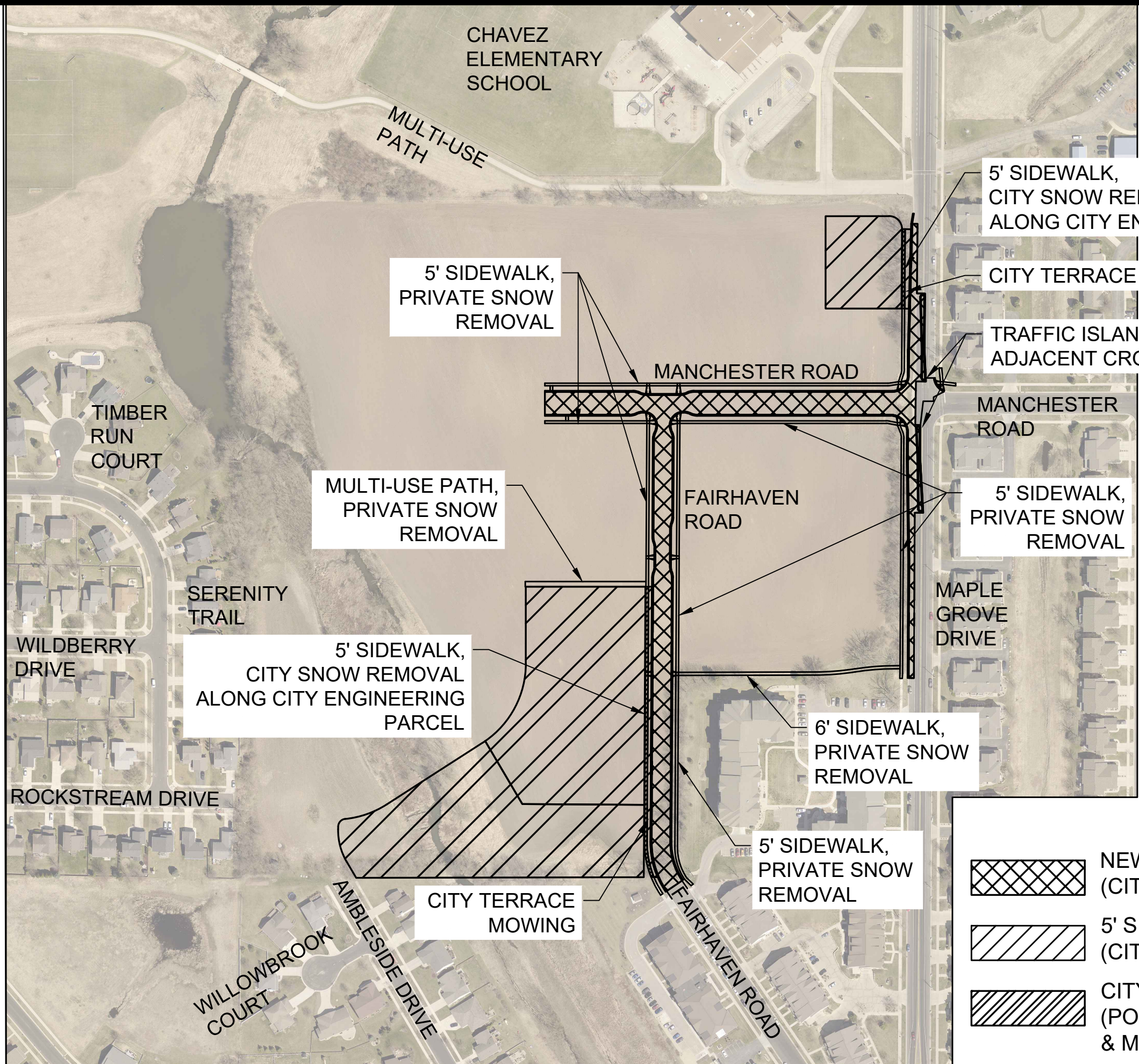
1. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2020 EDITION AND ALL ADDENDUMS HERETO. ALL CONDUIT SHALL BE PVC SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS
2. THE CONTRACTOR SHALL CALL TROY VANT (395-1975) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF BURYING CONDUIT TO ARRANGE FOR INSPECTION.
3. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD, THE CONTRACTOR SHALL NOTIFY MIKE BENZSCHAWEL (266-4767) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED

MARK	REVISION	DATE	BY

12310
 MADISON, WI
 8402
 CONTRACT NO:

ELECTRICAL PLAN
 3840 MAPLE GROVE DRIVE
 M:\DESIGN\Projects\12694\CAD\Traffic\12694TE-Electrical.dwg





5' SIDEWALK,
CITY SNOW REMOVAL
ALONG CITY ENGINEERING PARCEL

CITY TERRACE MOWING

TRAFFIC ISLAND WITH
ADJACENT CROSSWALK

5' SIDEWALK,
PRIVATE SNOW
REMOVAL

MULTI-USE PATH,
PRIVATE SNOW
REMOVAL

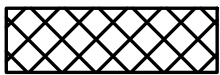

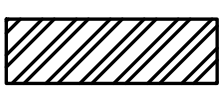
5' SIDEWALK,
CITY SNOW REMOVAL
ALONG CITY ENGINEERING
PARCEL

6' SIDEWALK,
PRIVATE SNOW
REMOVAL

5' SIDEWALK,
PRIVATE SNOW
REMOVAL

CITY TERRACE
MOWING

LEGEND

	NEW STREETS (CITY SNOW REMOVAL)
	5' SIDEWALK (CITY SNOW REMOVAL)
	CITY ENGINEERING PARCEL (POND/SWALE MAINTENANCE & MOWING REQUIRED)

MARK	REVISION	DATE	BY

Described By: ALZ Date: 9/8/2020 9:23 AM Scale: 1"=200'

12310
MADISON, WI
8402

MAINTENANCE MAP
3860 MAPLE GROVE DRIVE
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-MaintMapleGroveDev.dwg
CONTRACT NO:



12310
MA-1