CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

Madison, Wisconsin

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: MAY 5, 2020

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

CV- Greg Fries — Sep 8, 2020

City Engineer — Date

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

CITY PROJECT NO. 12310
CONTRACT NO. 8402

PROJECT LOCATION

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

INDEX OF SHEETS

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SHEET NO.	U11	SANITARY SEWER SCHEDULE
SHEET NO.	U12-U13	STORM SEWER SCHEDULE
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SHEET NO.	W5	WATER IMPACT PLAN
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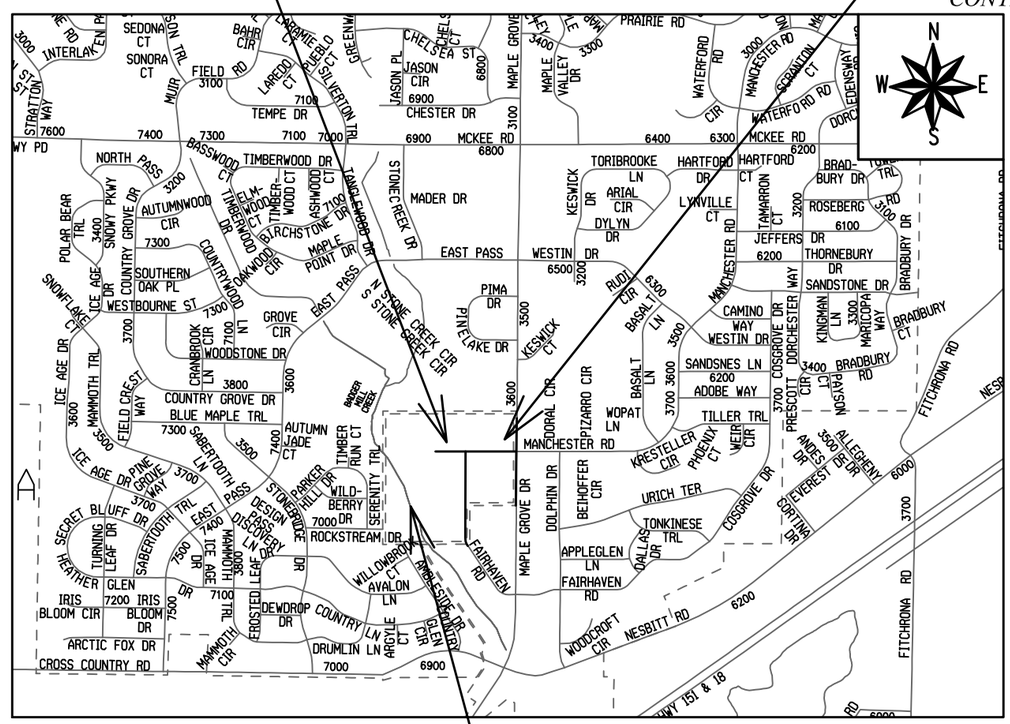
SHEET NO.	M1-M4	PAVEMENT MARKING
SHEET NO.	E1	ELECTRICAL PLAN
SHEET NO.	MA1	MAINTENANCE MAP (CITY USE ONLY)

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	



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)

NOTES:

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

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAPMS 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 WHERRE STREET GRADES EXCEED 5.00%.

STREET DESIGNED BY:
WISCONSIN — ANDREW J. ZWIEG — E-41753 — MADISON WI — PROFESSIONAL ENGINEER
Sep 8, 2020

PAVEMENT MARKING DESIGNED BY:
WISCONSIN — MARK S WINTER — E-39453 — MADISON WI — PROFESSIONAL ENGINEER
Sep 8, 2020

SANITARY SEWER DESIGNED BY:
WISCONSIN — MARK D. MODER — E-33979 — MADISON WI — PROFESSIONAL ENGINEER
Sep 9, 2020

WATER MAIN DESIGNED BY:
WISCONSIN — ADAM R. WIEDERHOEFT — E-41559 — MADISON WI — PROFESSIONAL ENGINEER
Sep 8, 2020

STORM SEWER DESIGNED BY:
WISCONSIN — MATTHEW A. ALLIE — E-44986 — MADISON WI — PROFESSIONAL ENGINEER
Sep 8, 2020

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

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12310

MADISON, WI

CONTRACT NO: 8402

GENERAL NOTES

3840 MAPLE GROVE DRIVE

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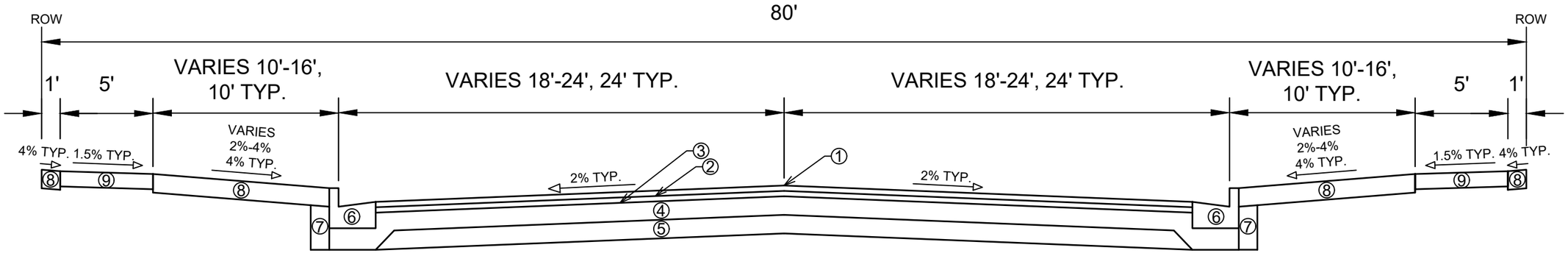
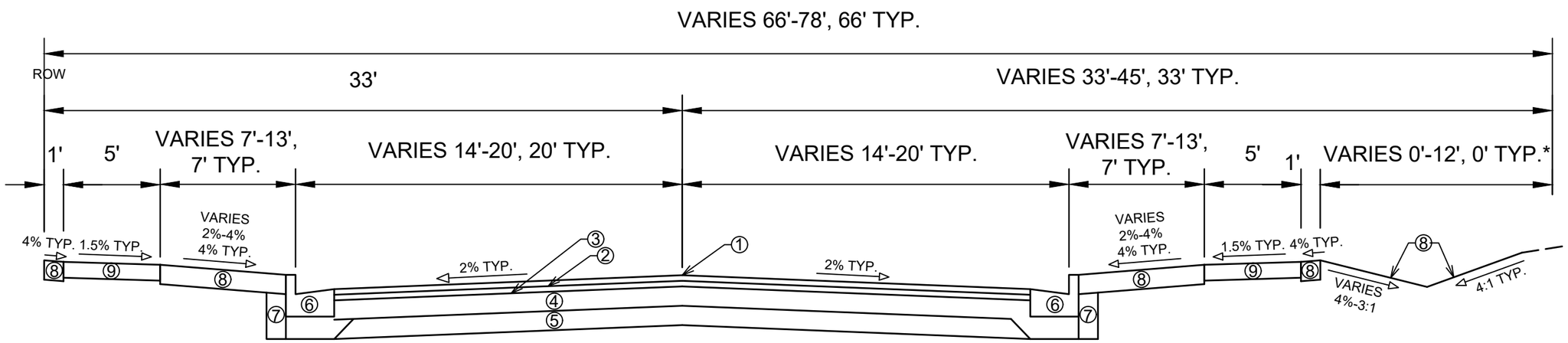


TYPICAL SECTION
MANCHESTER ROAD
STA 400+82.00 TO STA 408+00.53

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

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MADISON, WI

CONTRACT NO: 8402

TYPICAL SECTIONS

3840 MAPLE GROVE DRIVE

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CITY OF MADISON WISCONSIN

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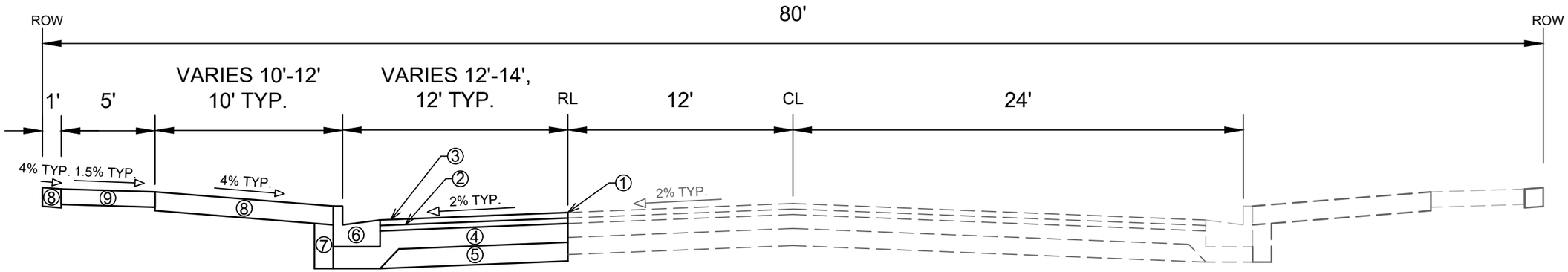
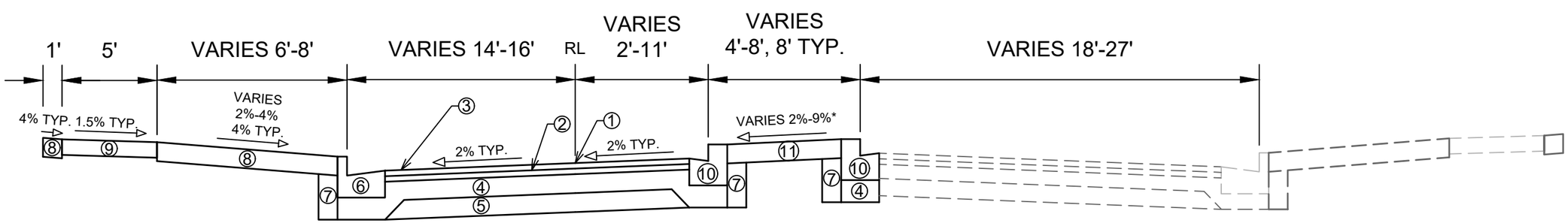


TYPICAL SECTION
MAPLE GROVE DRIVE
STA 600+63.86 TO STA 603+86.33
STA 605+52.60 TO STA 606+40.99
STA 608+07.51 TO STA 609+44.44

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

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MADISON, WI

CONTRACT NO: 8402

TYPICAL SECTIONS

3840 MAPLE GROVE DRIVE

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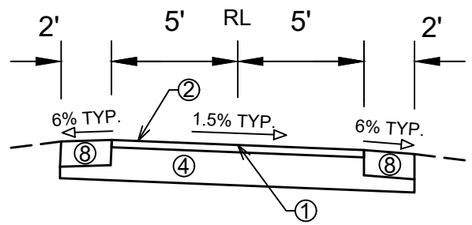
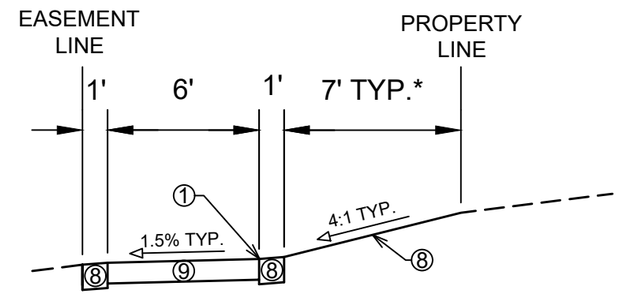


TYPICAL SECTION
PATH
(ROCKSTREAM DRIVE TO FAIRHAVEN ROAD)
STA 816+00.00 TO STA 802+49.90.00

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

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MADISON, WI

CONTRACT NO: 8402

TYPICAL SECTIONS

3840 MAPLE GROVE DRIVE

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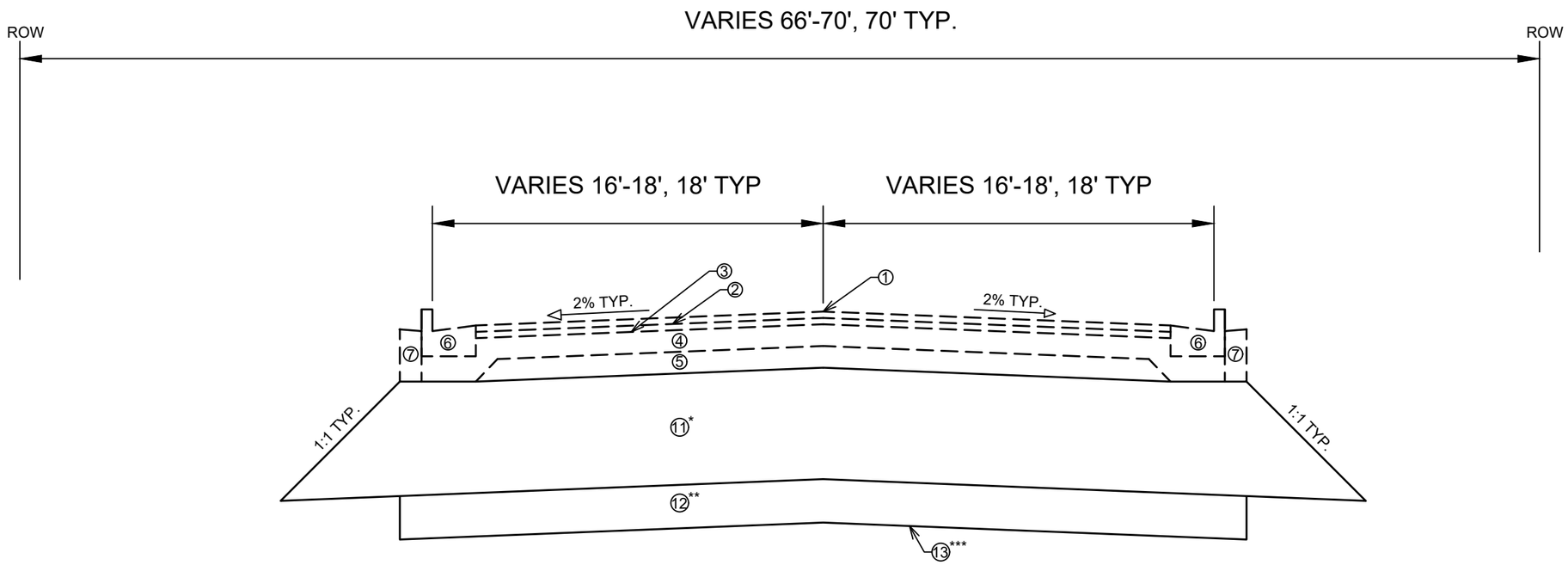

SPECIAL NOTES:

- 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

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MADISON, WI

CONTRACT NO: 8402

TYPICAL SECTIONS

3840 MAPLE GROVE DRIVE

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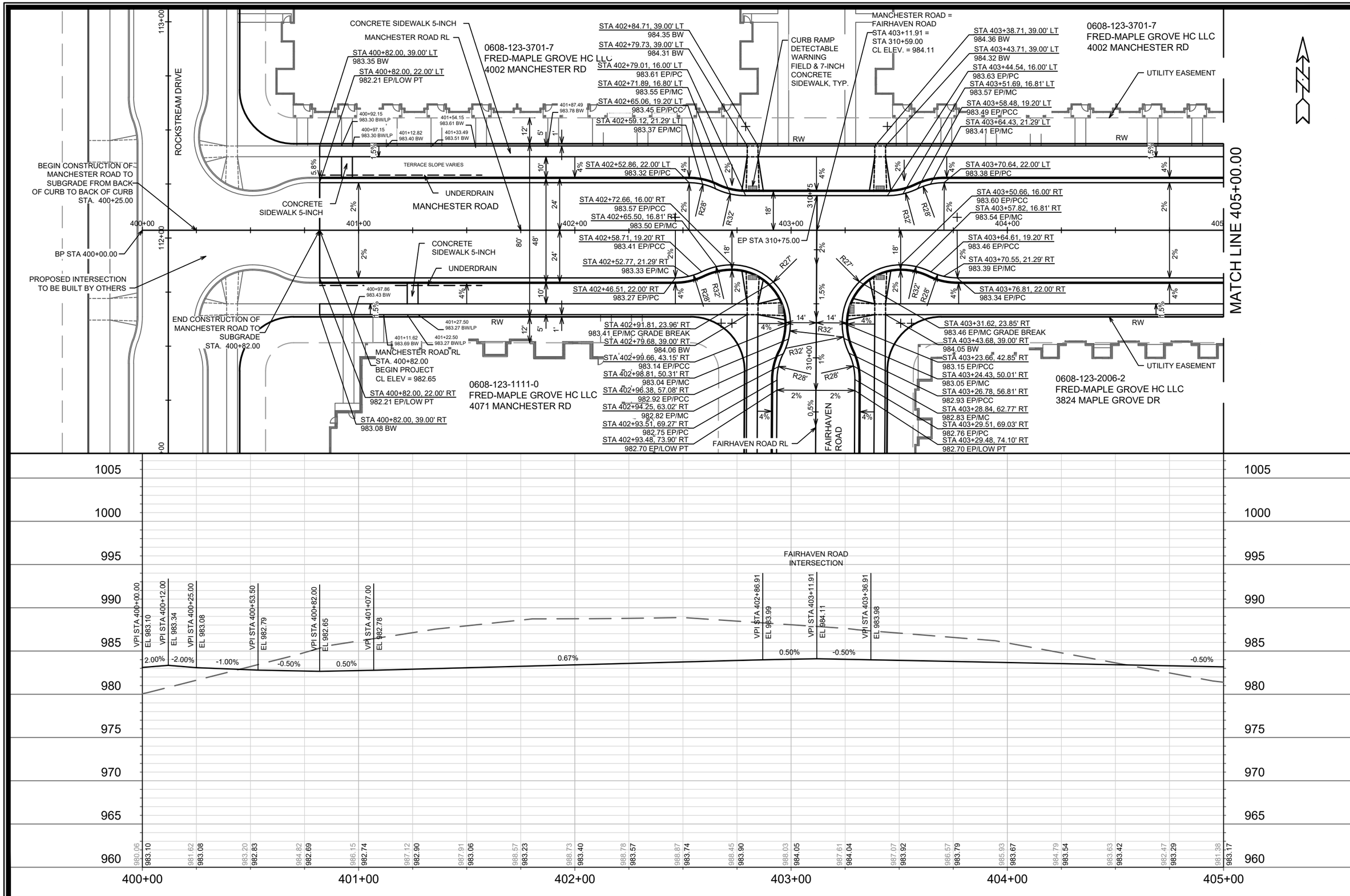

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CONTRACT NO:

MADISON, WI

MANCHESTER ROAD PLAN & PROFILE

3840 MAPLE GROVE DRIVE

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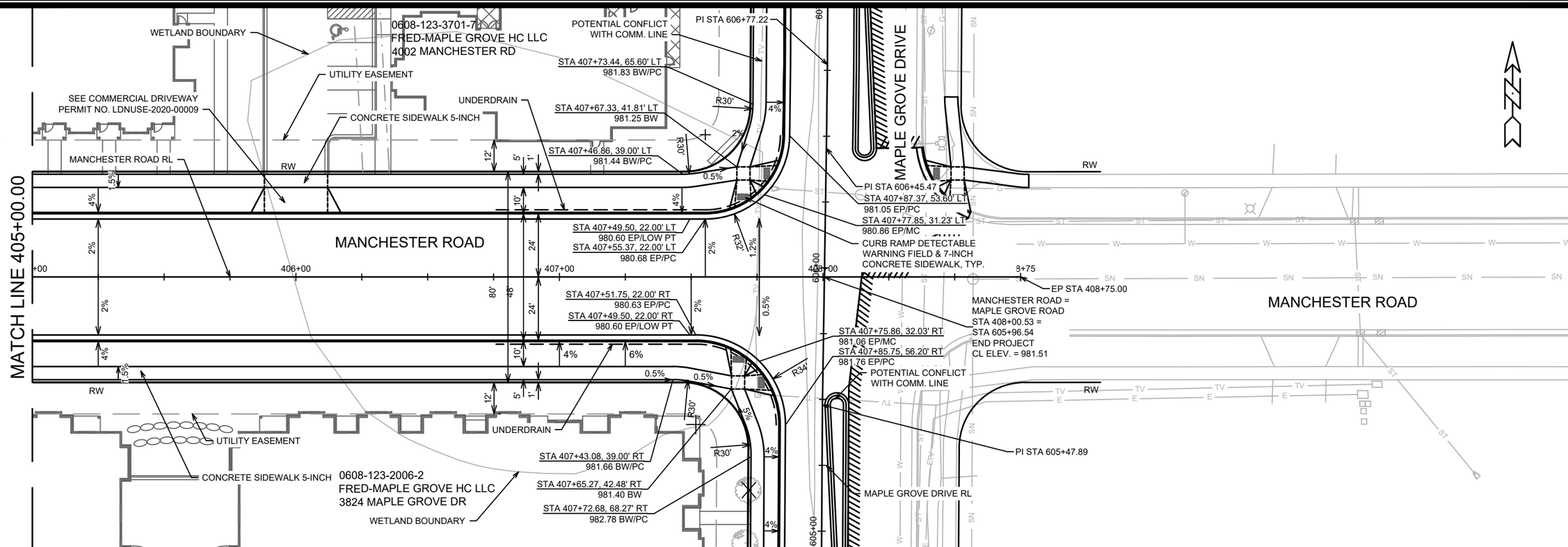

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MADISON, WI

CONTRACT NO: 8402

MANCHESTER ROAD PLAN & PROFILE

3840 MAPLE GROVE DRIVE

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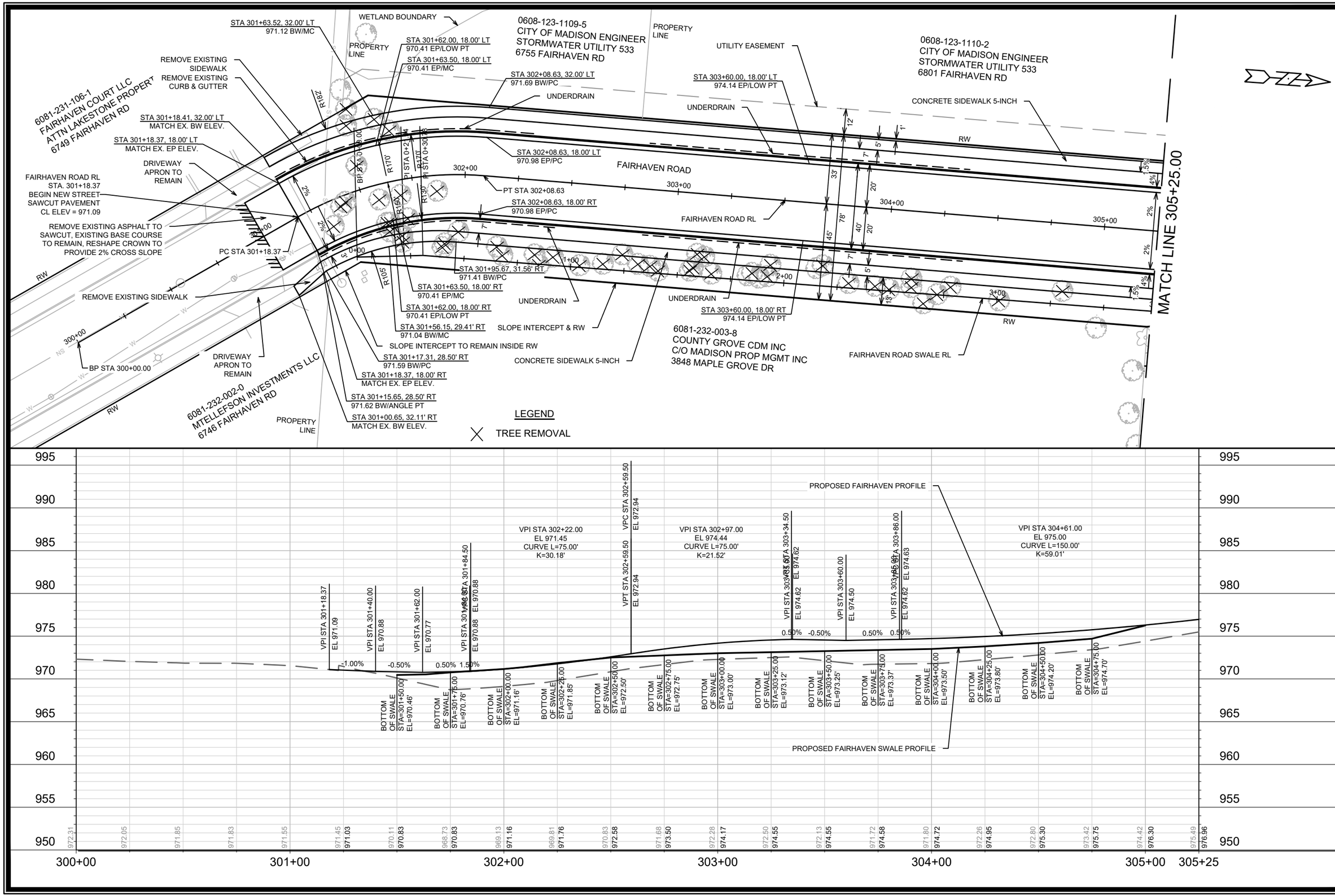

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MADISON, WI

CONTRACT NO:

FAIRHAVEN ROAD PLAN & PROFILE

3840 MAPLE GROVE DRIVE

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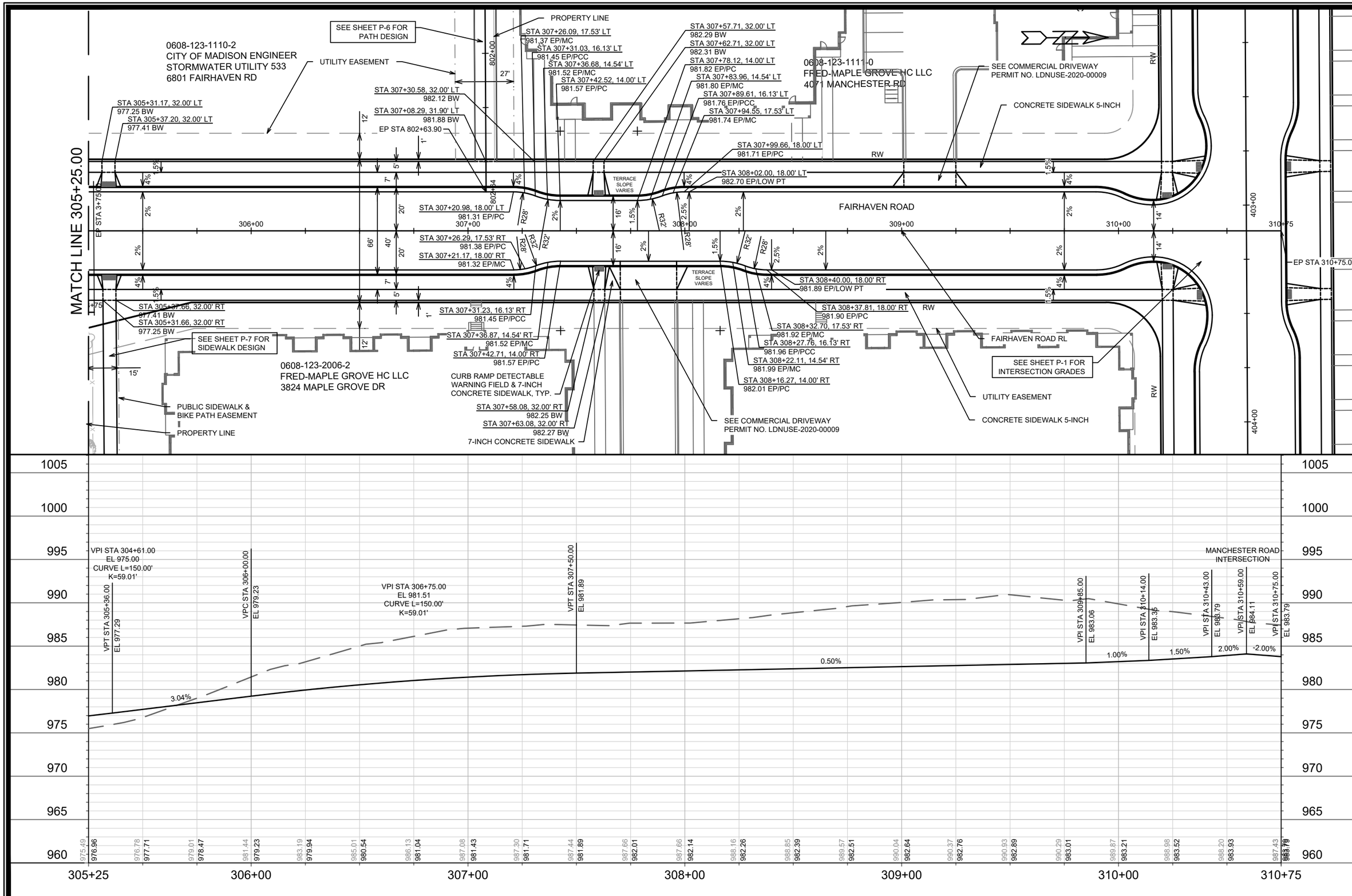

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MADISON, WI

8402

CONTRACT NO:

FAIRHAVEN ROAD PLAN & PROFILE

3840 MAPLE GROVE DRIVE

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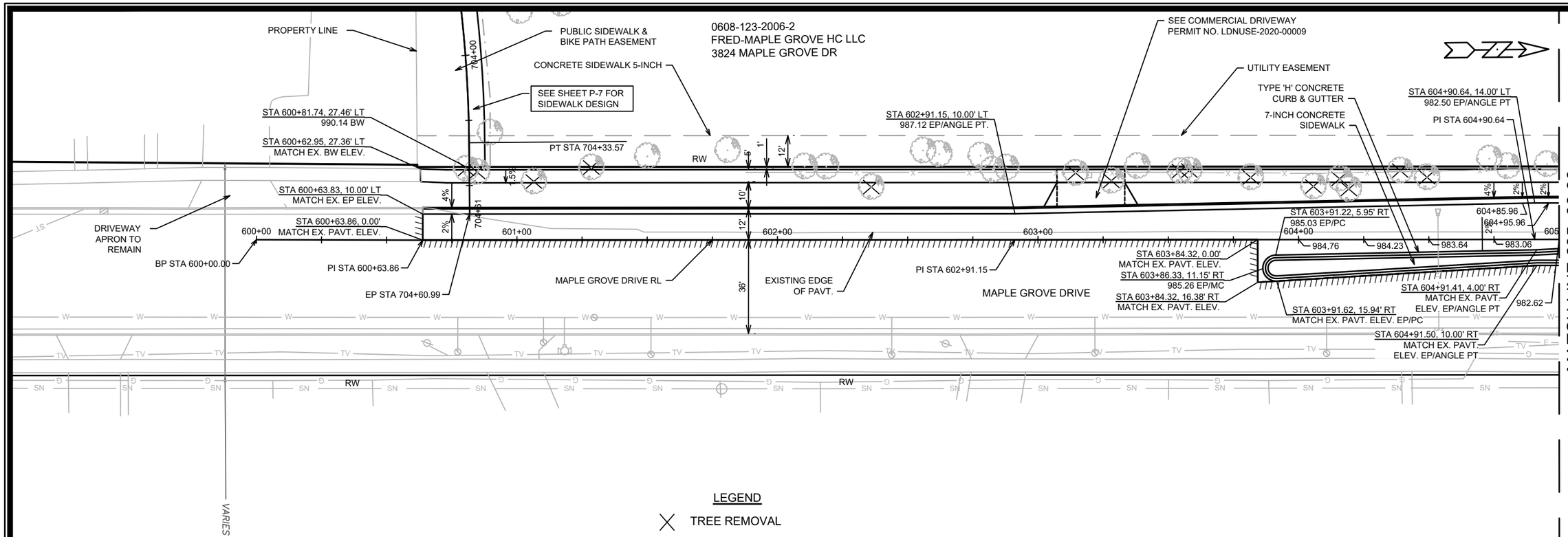

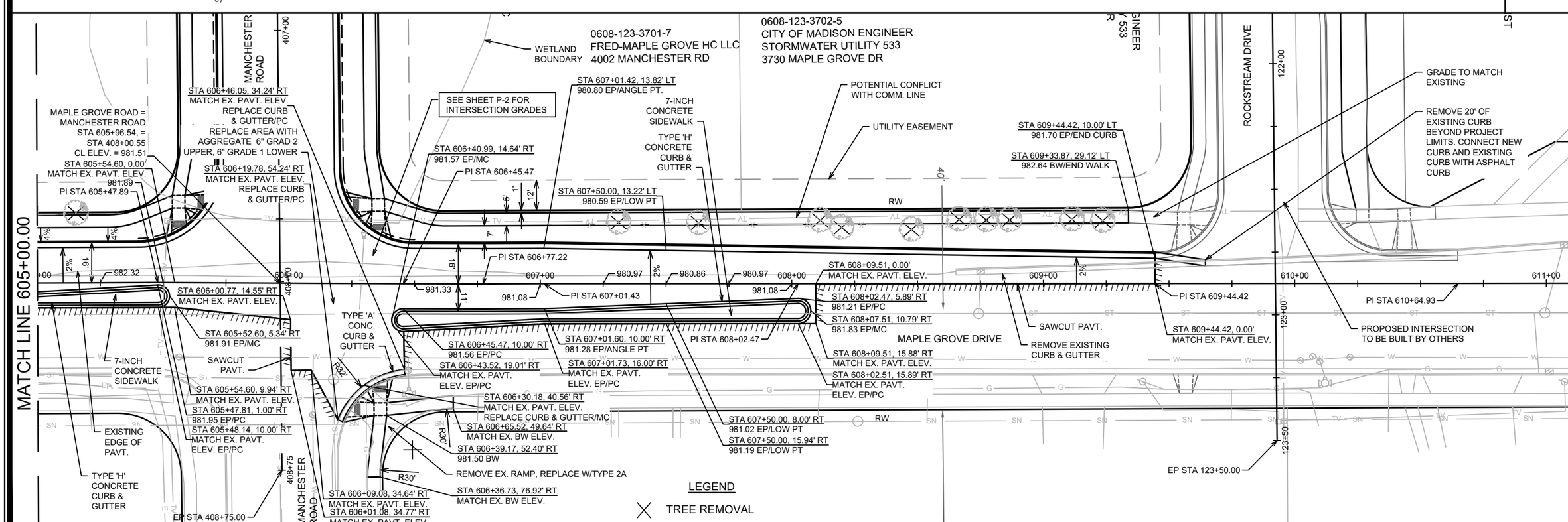

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Designed By: AJZ | Date: 9/8/2020 9:38 AM | Scale: ######## | P-5

12310

MADISON, WI

CONTRACT NO: 8402

MAPLE GROVE DRIVE PLAN

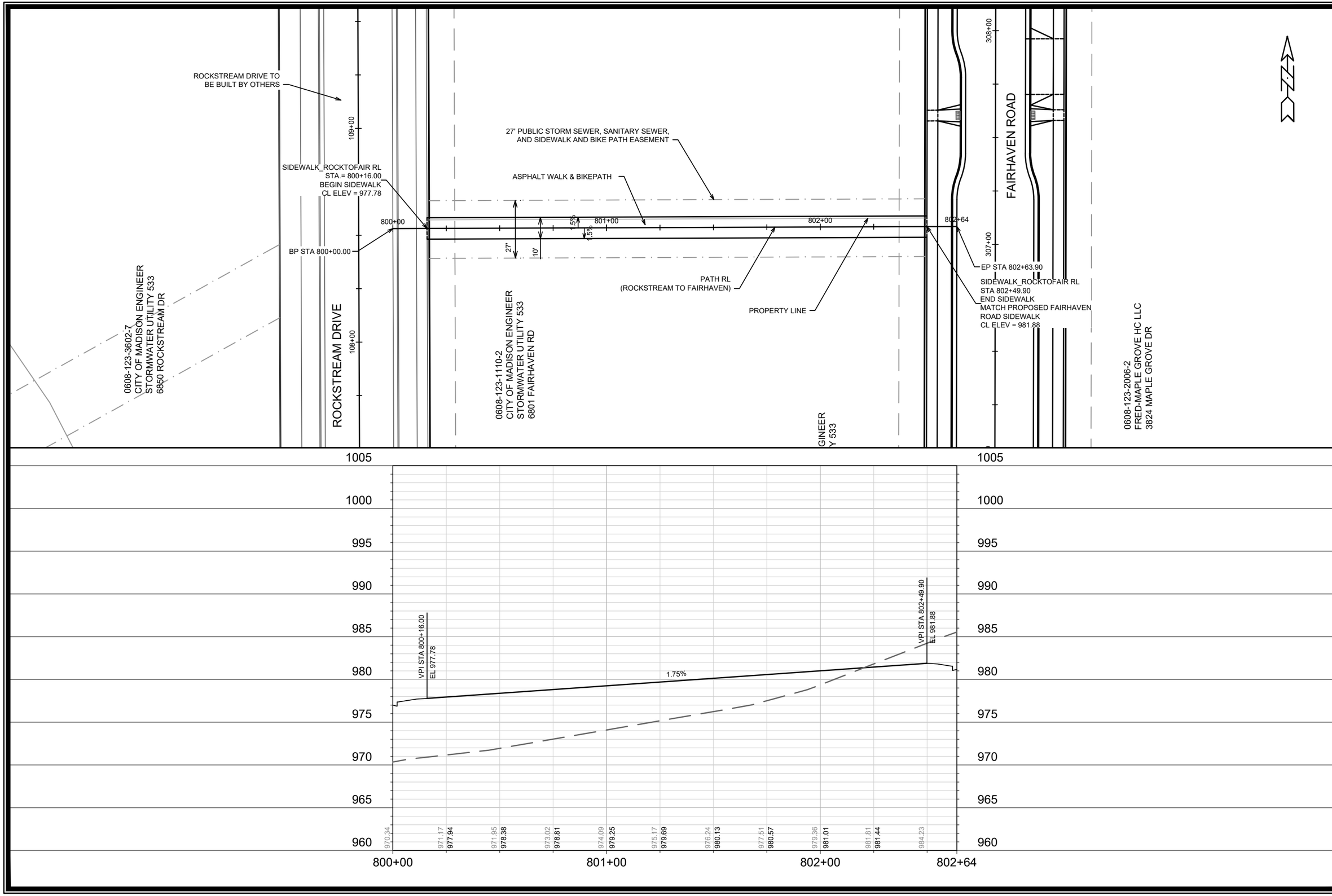
3840 MAPLE GROVE DRIVE

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

CITY OF MADISON WISCONSIN

12310

P-5



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Designed By: AJZ | Date: 9/8/2020 9:38 AM | Scale: 1" = 40'

12310

MADISON, WI

CONTRACT NO: 8402

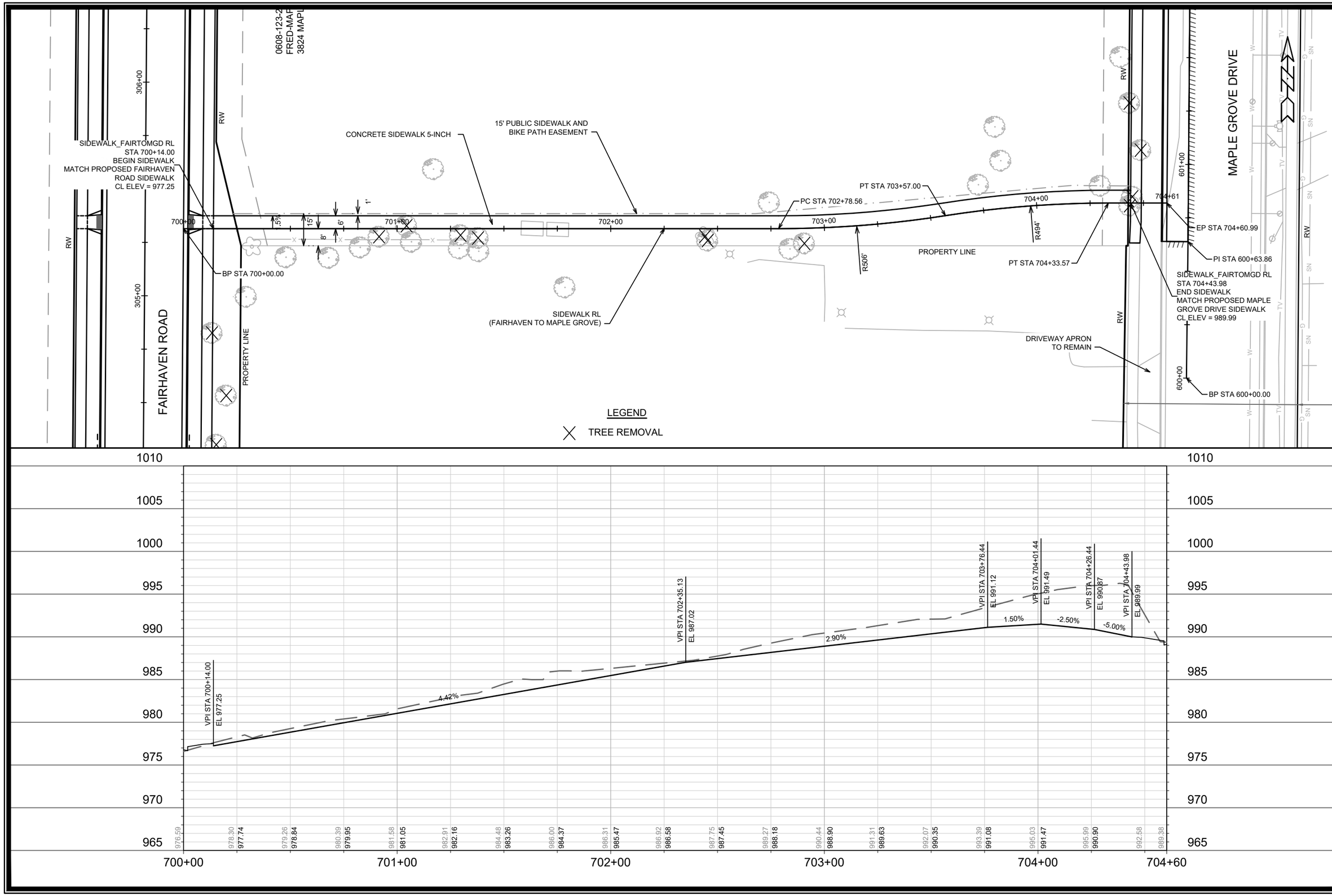
PATH PLAN & PROFILE

PATH ROCKSTREAM DRIVE TO FAIRHAVEN ROAD

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

12310

P-6



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Designed By: AJZ | Date: 9/8/2020 9:38 AM | Scale: 1" = 40'

12310

P-7

12310

MADISON, WI

CONTRACT NO: 8402

SIDEWALK PLAN & PROFILE

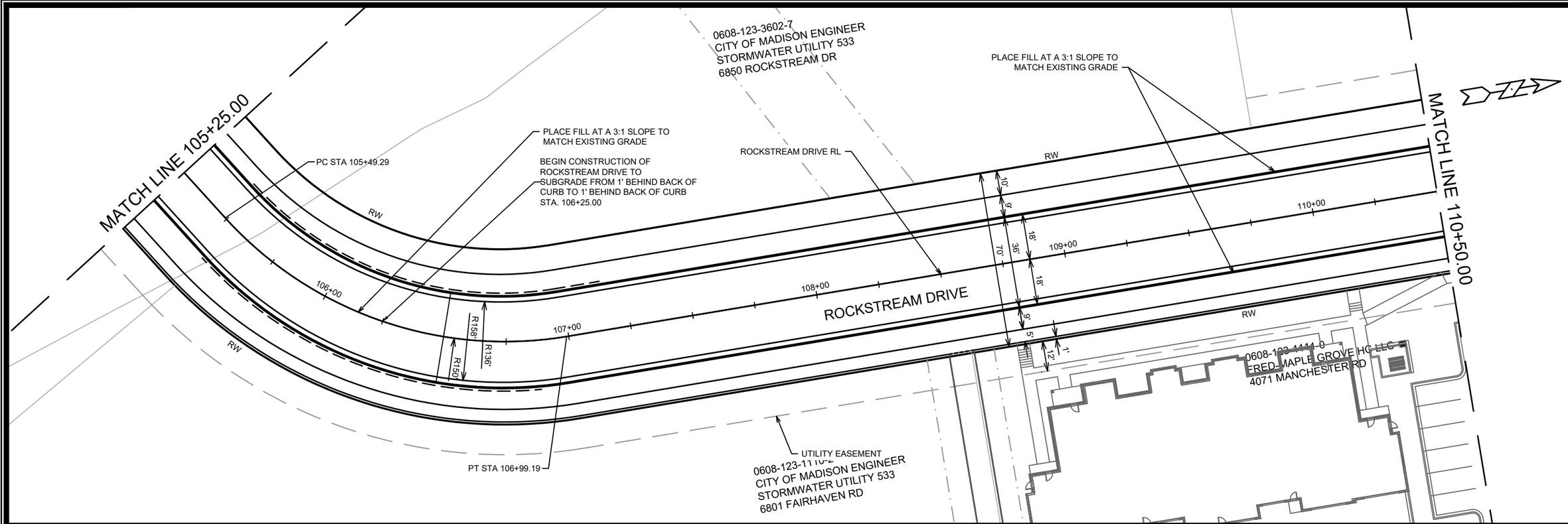
SIDEWALK FAIRHAVEN ROAD TO MAPLE GROVE DRIVE

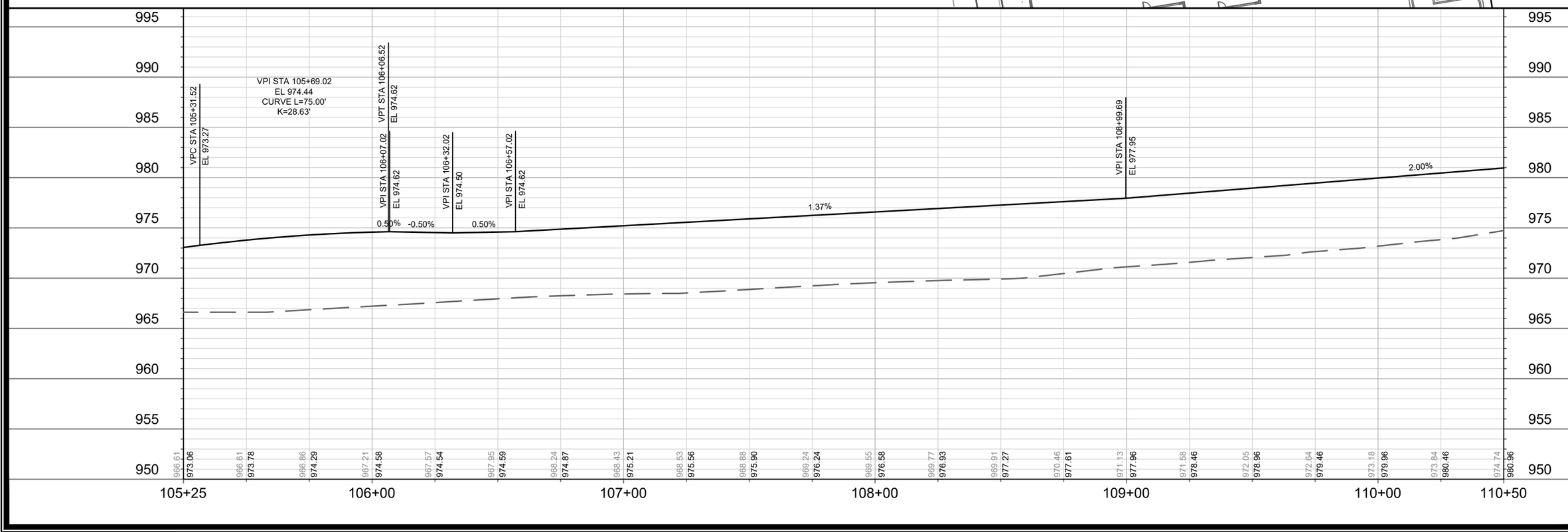
M:\DESIGN\Projects\12310\CAD\Plan Sheets\12310EN-PnP Sidewalk_RocktoMGD.dwg

CITY OF MADISON WISCONSIN

12310

P-7





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

12310

P-8

12310

MADISON, WI

CONTRACT NO: 8402

ROCKSTREAM DRIVE PLAN & PROFILE

3840 MAPLE GROVE DRIVE

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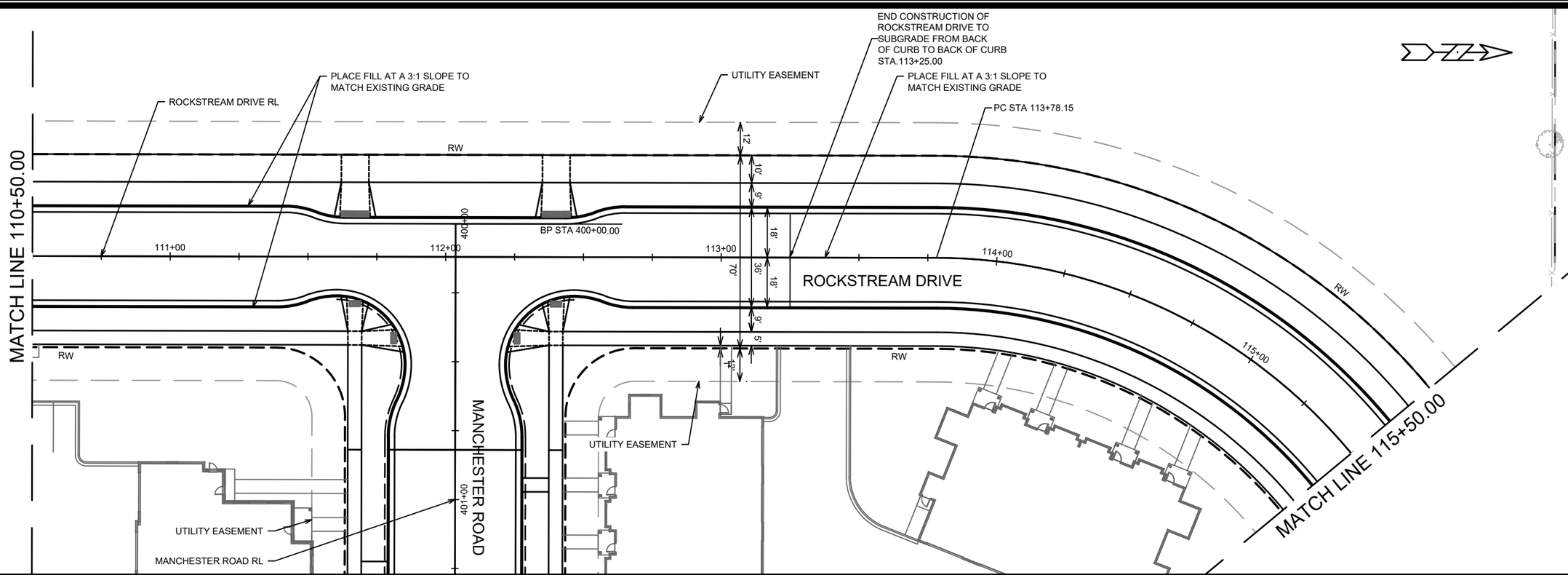
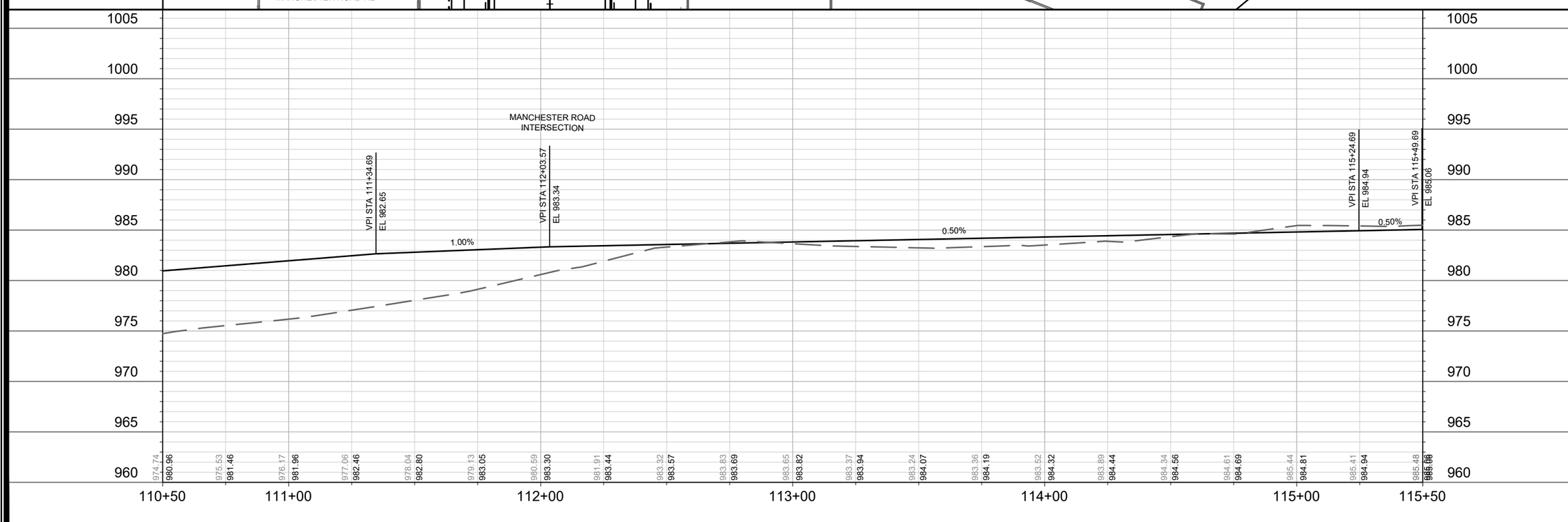
CITY OF MADISON WISCONSIN

12310

P-8





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Designed By: AJZ | Date: 8/10/2020 2:30 PM | Scale: 1" = 40'

12694

P-9

12694

MADISON, WI

CONTRACT NO: 8498

PLAN & PROFILE

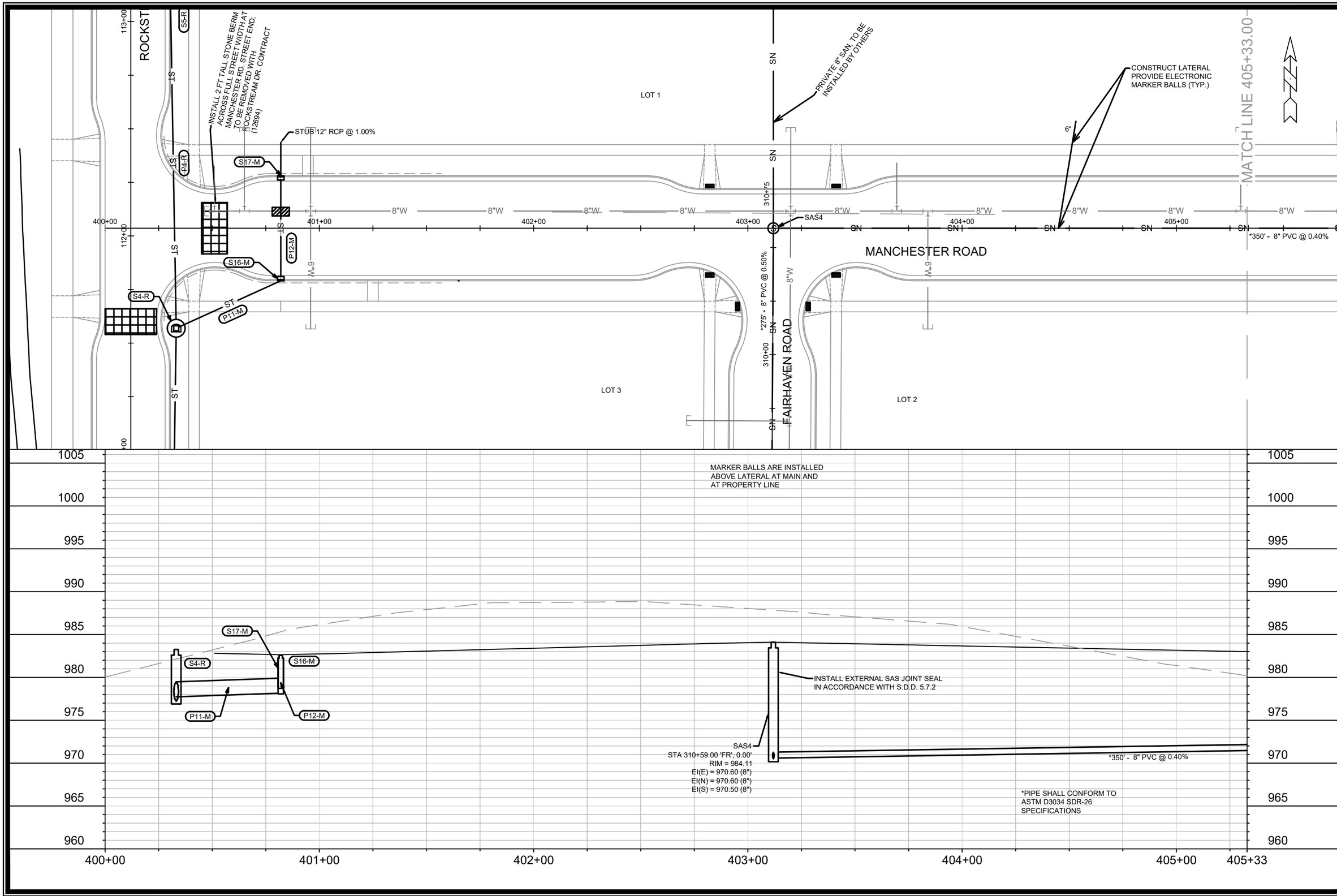
ROCKSTREAM DRIVE

M:\DESIGN\Projects\12694\CAD\Plan Sheets\12694EN-PnP RockstreamDr.dwg

CITY OF MADISON WISCONSIN

12694

P-9



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

12310

MADISON, WI

CONTRACT NO: 8402

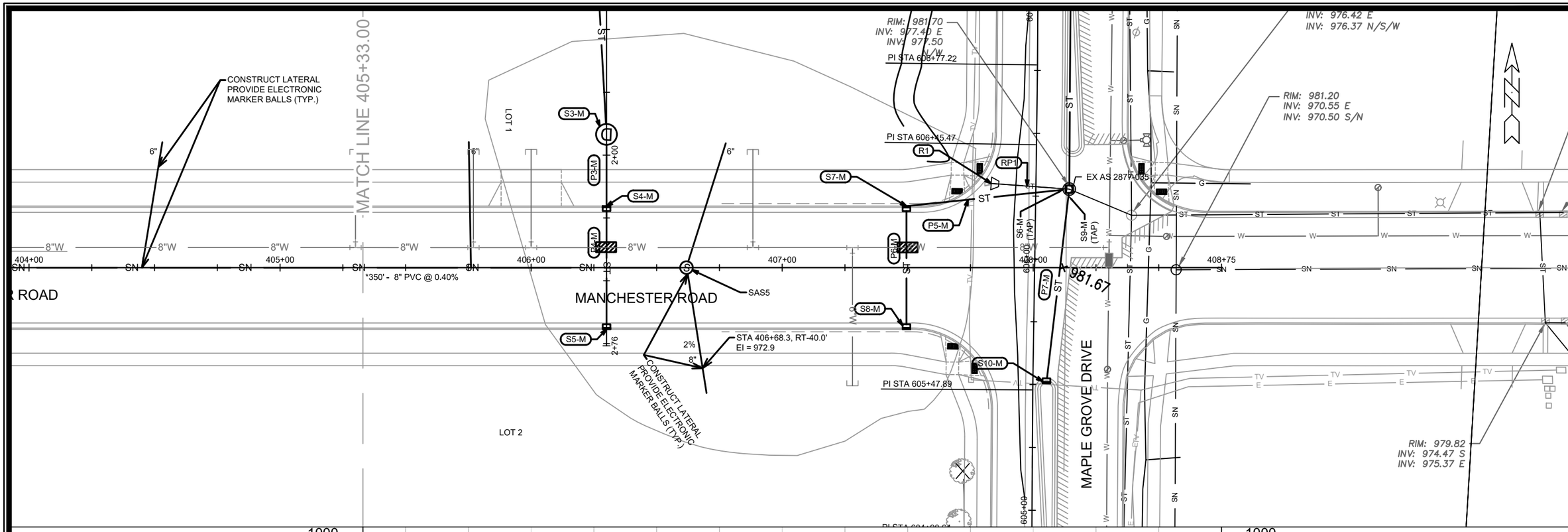
U1

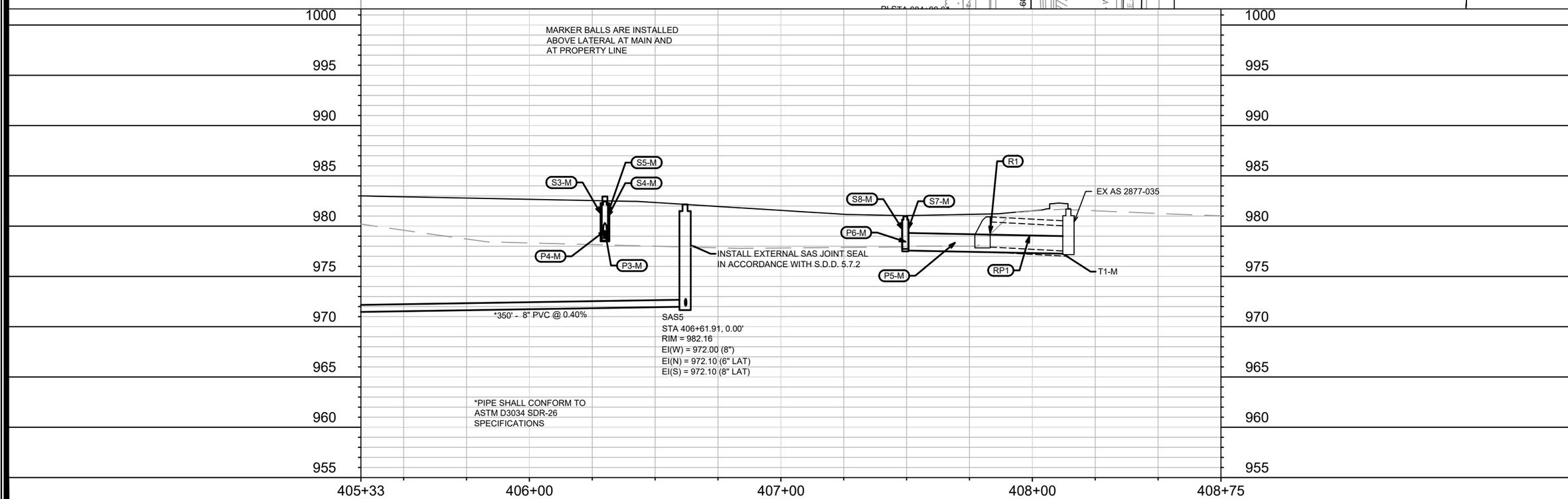
MANCHESTER ROAD

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

12310

U-1





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

12310

MADISON, WI

CONTRACT NO: 8402

U2 MANCHESTER ROAD

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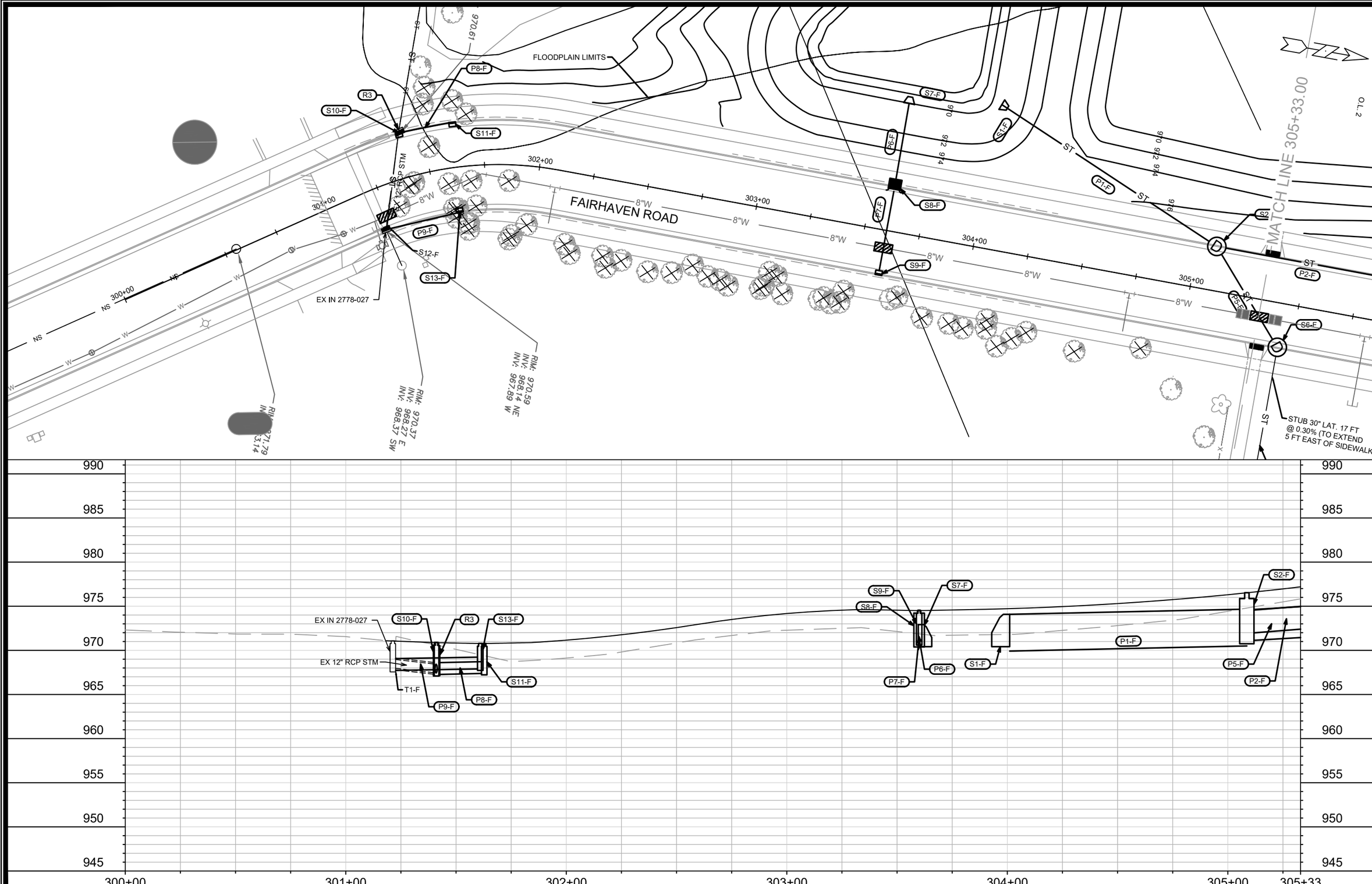
12310

U-2



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

12310

MADISON, WI

CONTRACT NO: 8402

U3 FAIRHAVEN ROAD

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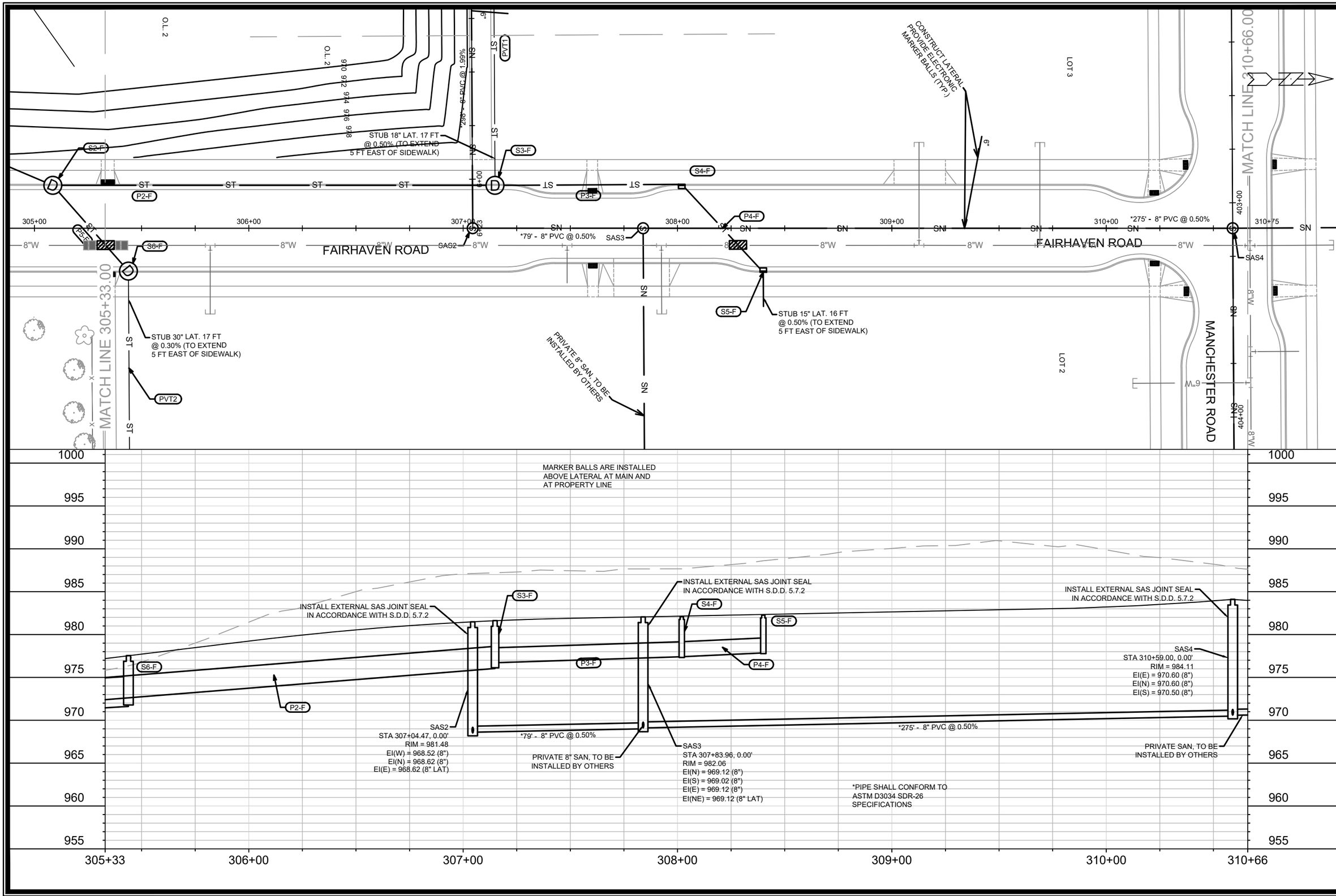
12310

U-3



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

12310

MADISON, WI

8402

CONTRACT NO:

U4

FAIRHAVEN ROAD

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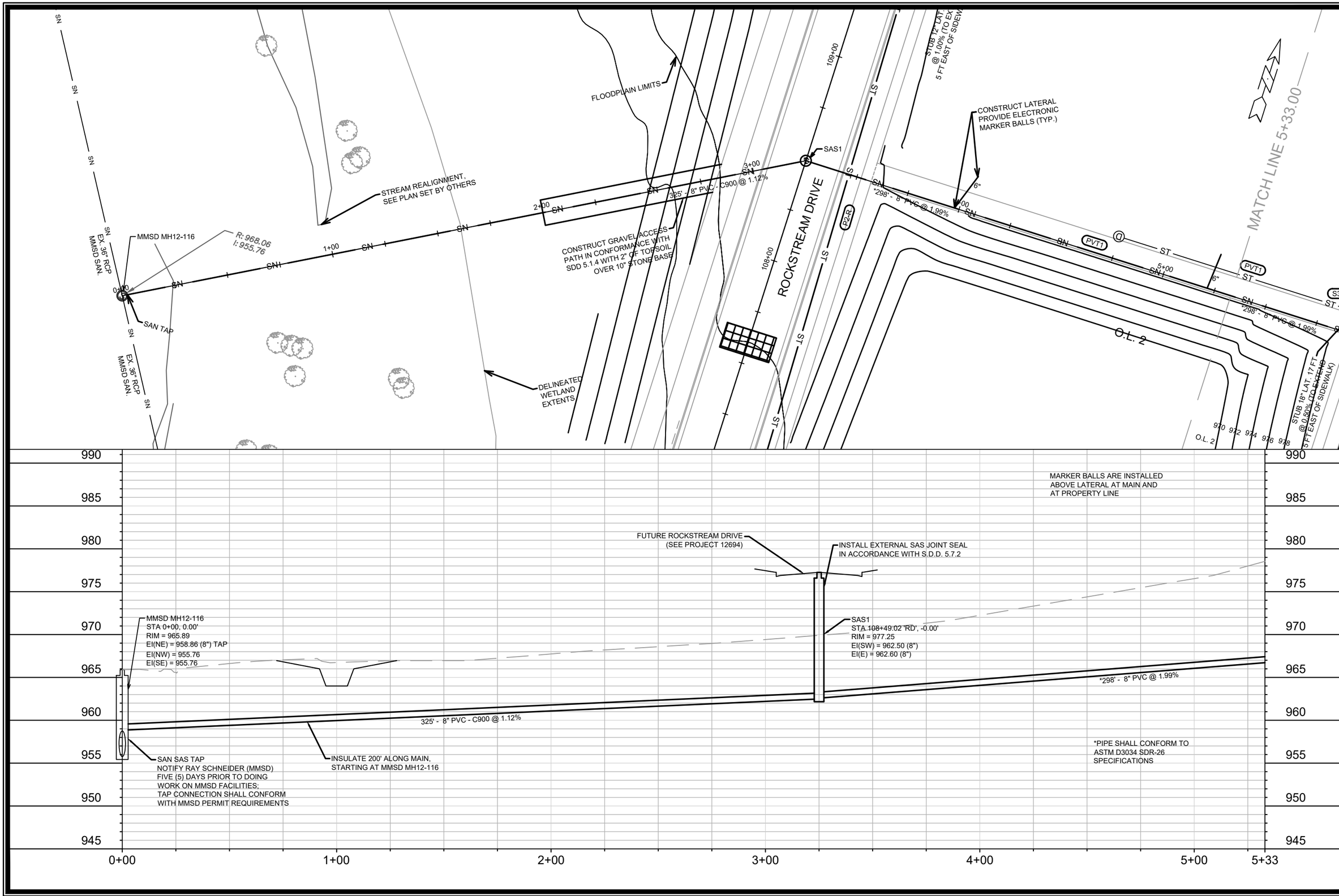
12310

U-4



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12310

MADISON, WI

CONTRACT NO: 8402

U5 O.L. SANITARY

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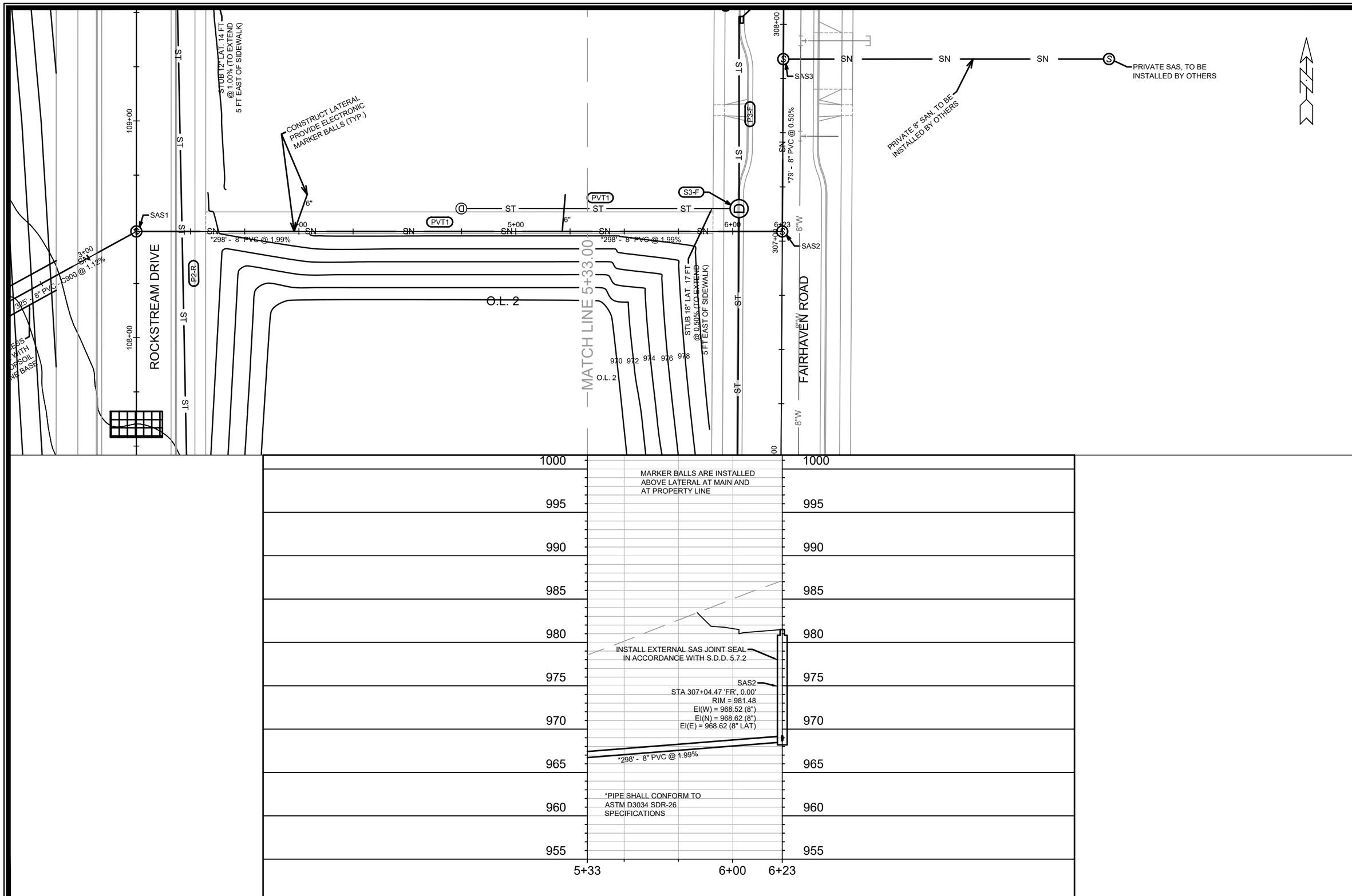
12310

U-5



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

12310

MADISON, WI

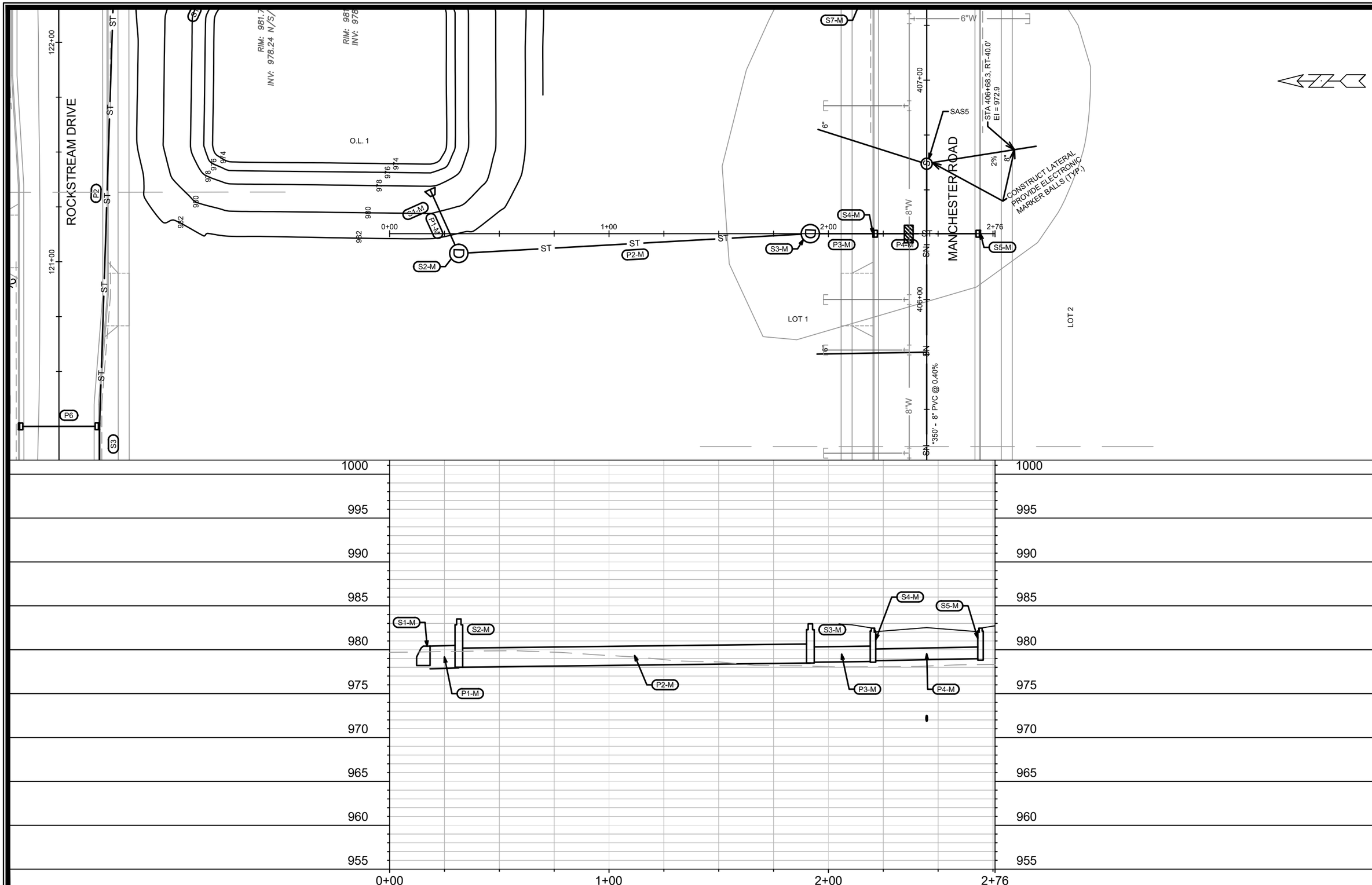
CONTRACT NO: 8402

U6 O.L. SANITARY

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

12310

U-6



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Designed By: MAA | Date: 9/8/2020 8:54 AM | Scale: 1" = 40'

12310

MADISON, WI

CONTRACT NO: 8402

U7

3840 MAPLE GROVE DRIVE

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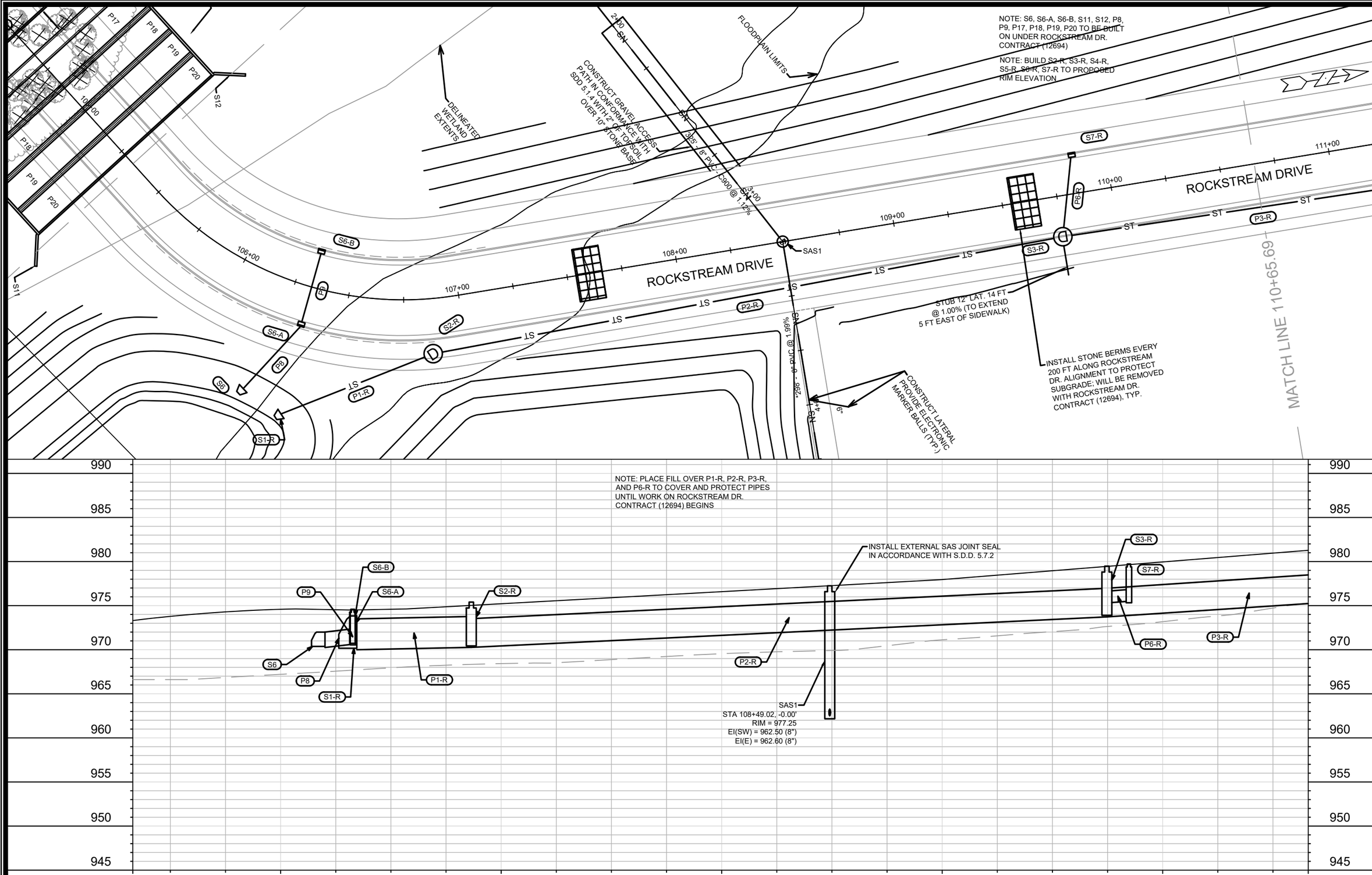
12310

U-7



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

12310

MADISON, WI

CONTRACT NO: 8402

12310

U8

3840 MAPLE GROVE DRIVE

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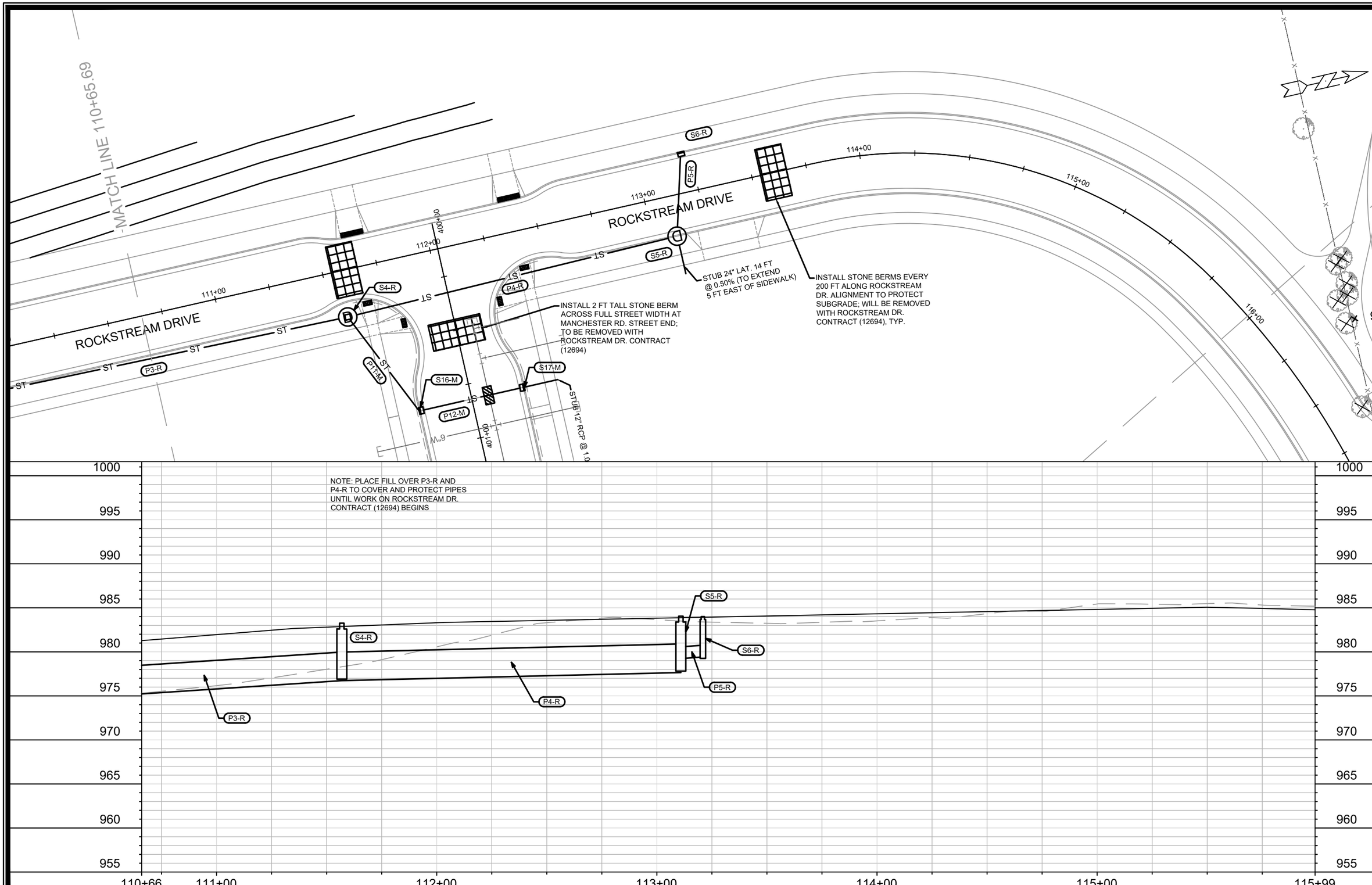
12310

U-8



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

12310

MADISON, WI

CONTRACT NO: 8402

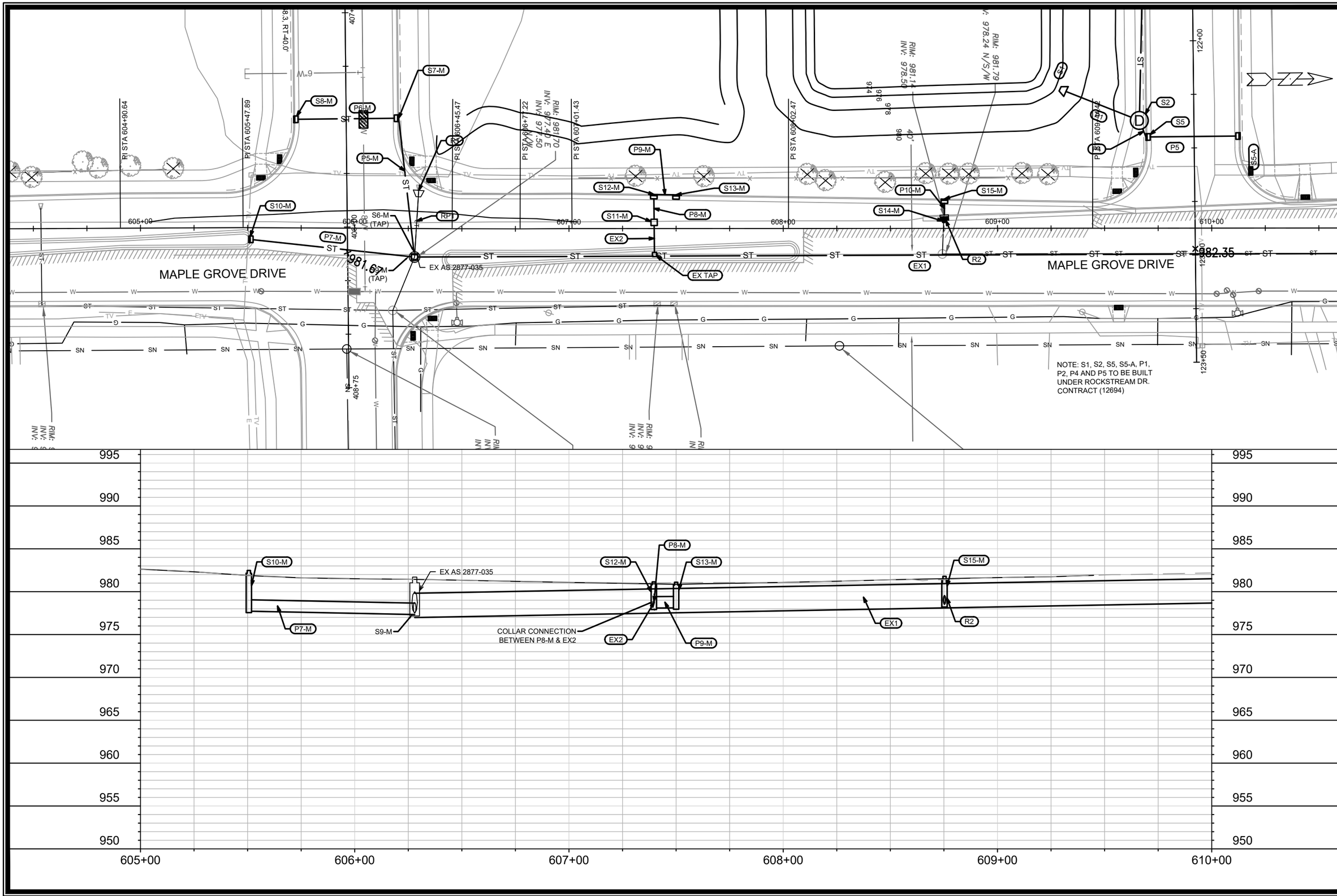
U9

3840 MAPLE GROVE DRIVE

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

12310

U-9



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Designed By: MAA Date: 9/8/2020 8:55 AM Scale: 1" = 40'

12310

MADISON, WI

CONTRACT NO: 8402

U10

3840 MAPLE GROVE DRIVE

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

12310

U-10

SANITARY SEWER SCHEDULE

F.R.E.D./MAPLE GROVE DRIVE	SHEET NO.
PROJECT NO. 12310	U-11
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

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	SHEET NO.
PROJECT NO. 12310	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	SHEET NO.
PROJECT NO. 12310	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

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 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

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	-

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	-

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.

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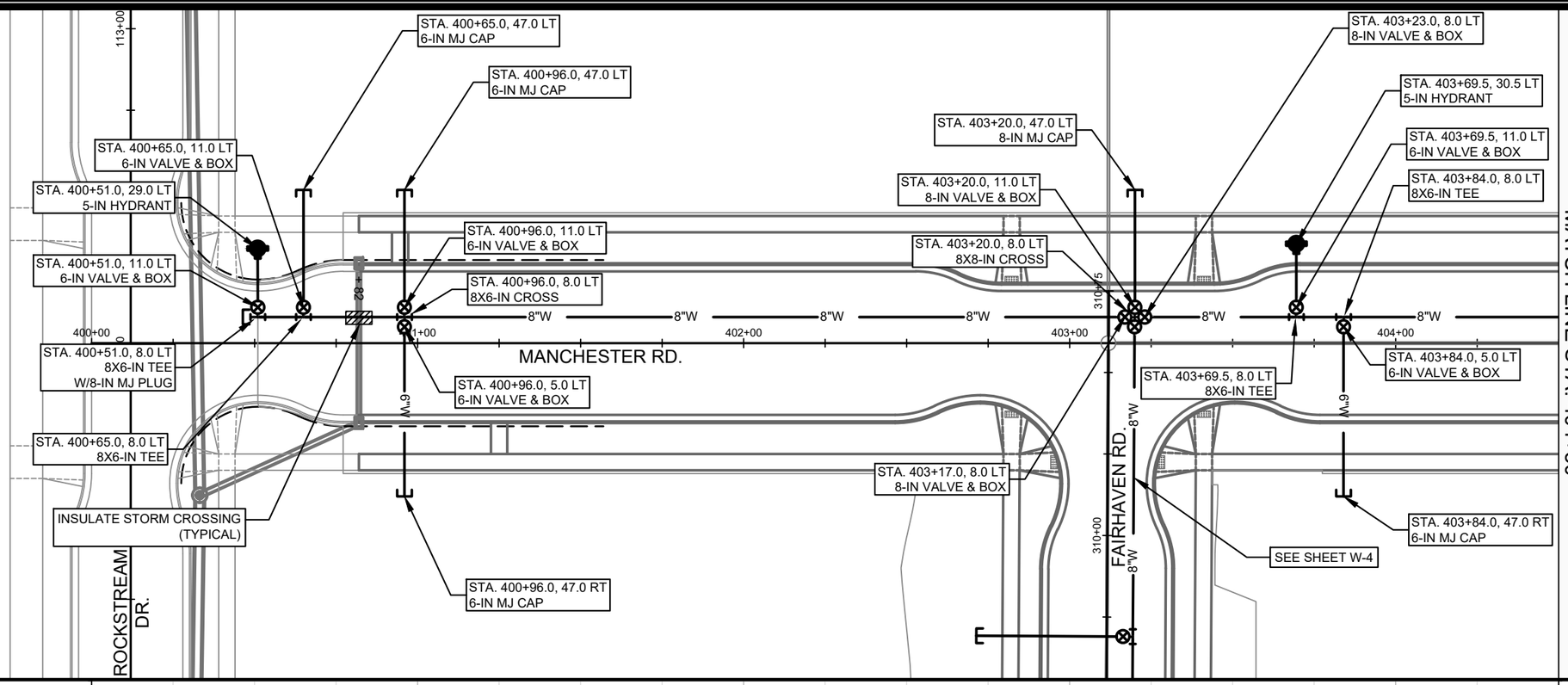
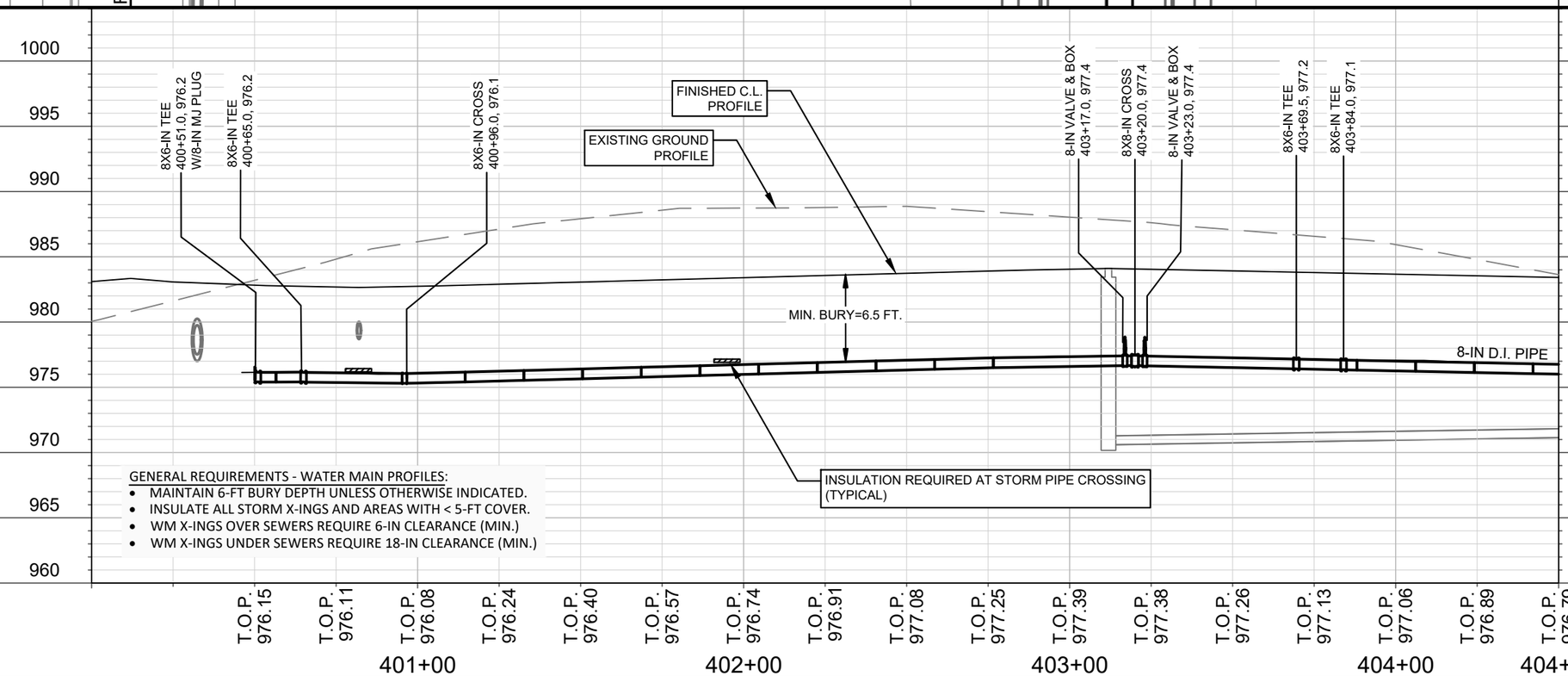




GENERAL REQUIREMENTS - WATER MAIN PROFILES:

- 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

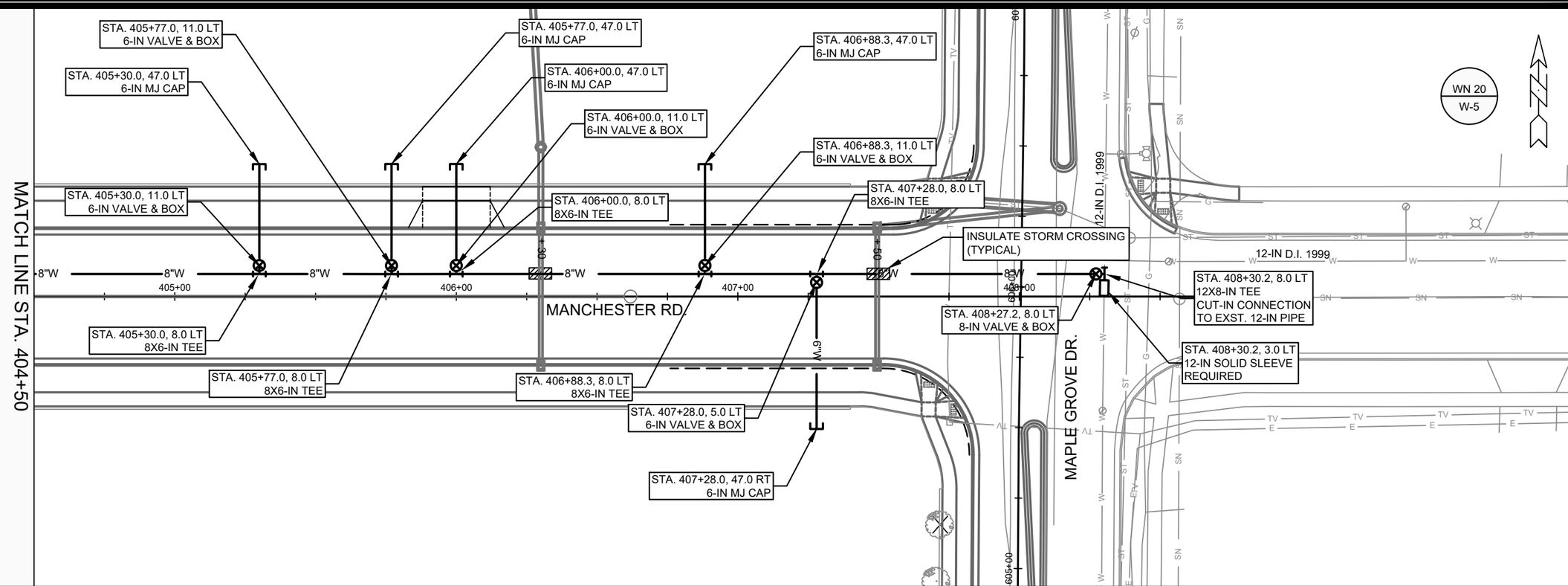
3840 MAPLE GROVE DRIVE

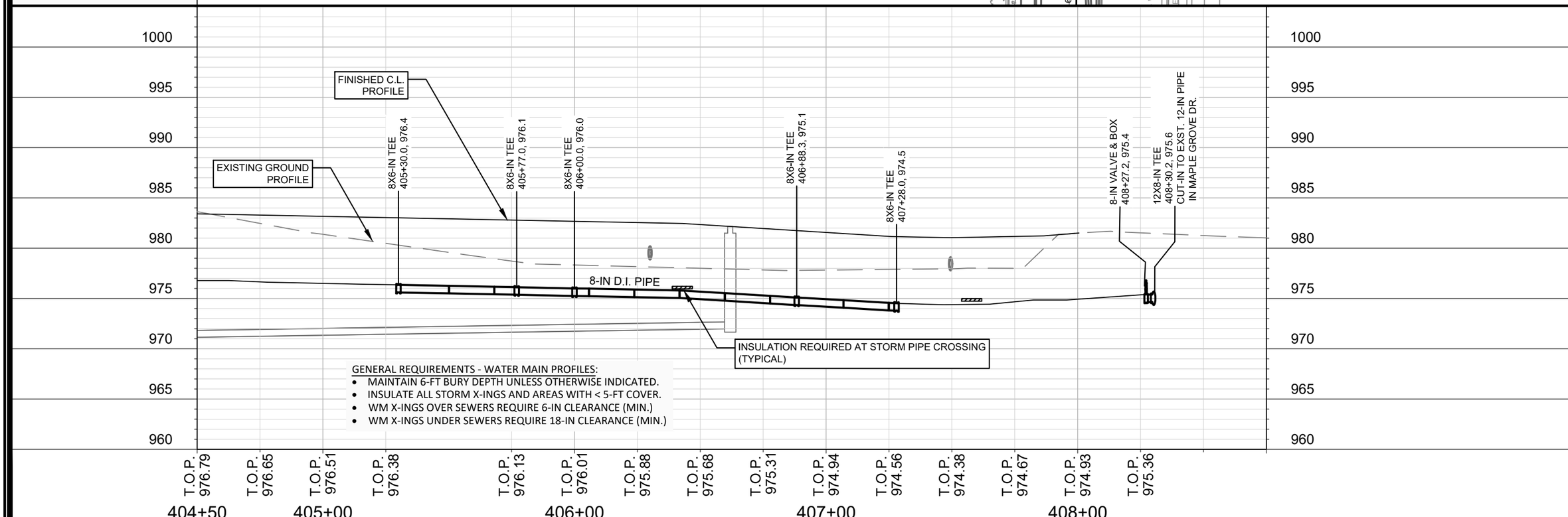
PLAN & PROFILE: MANCHESTER RD WATER

CITY OF MADISON, WISCONSIN

12310

W-1





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

CONTRACT NO: 8402

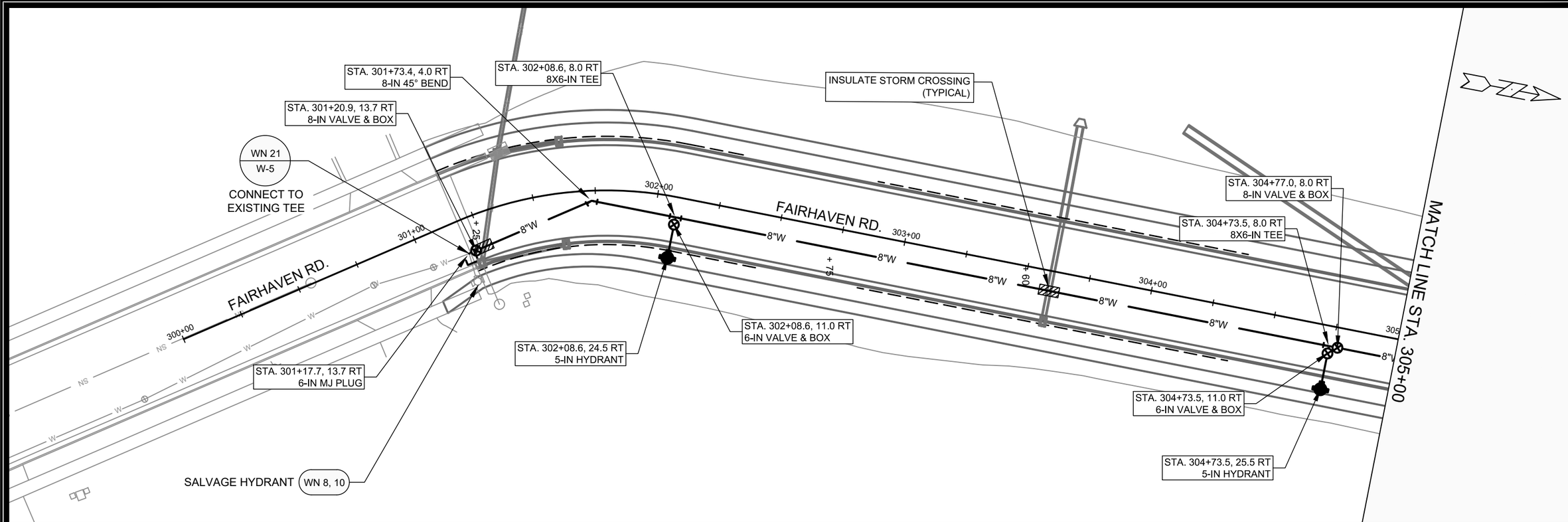
3840 MAPLE GROVE DRIVE

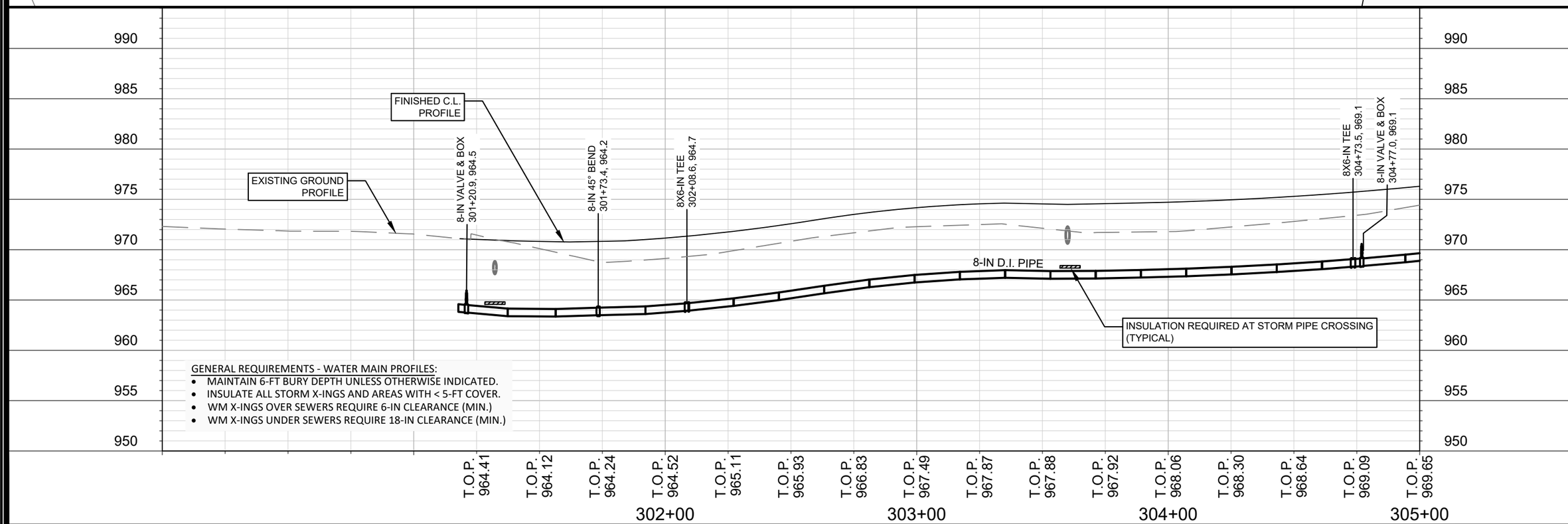
PLAN & PROFILE: MANCHESTER RD WATER

CITY OF MADISON, WISCONSIN

12310

W-2





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- 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

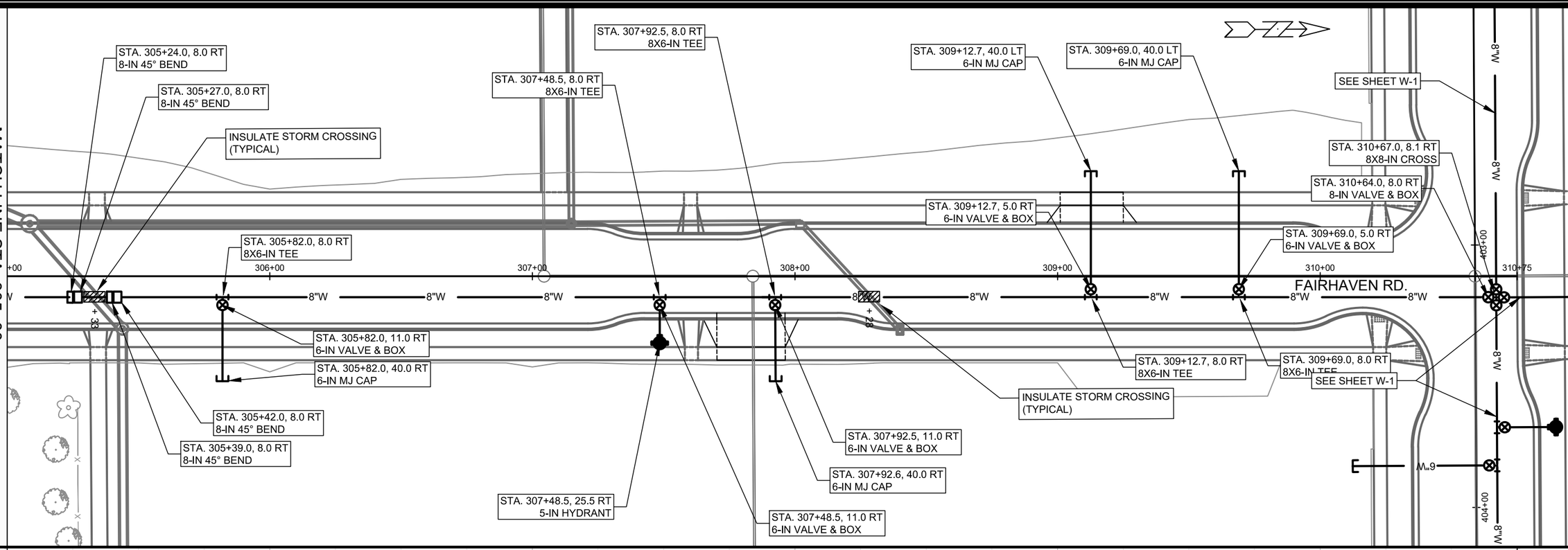
3840 MAPLE GROVE DRIVE

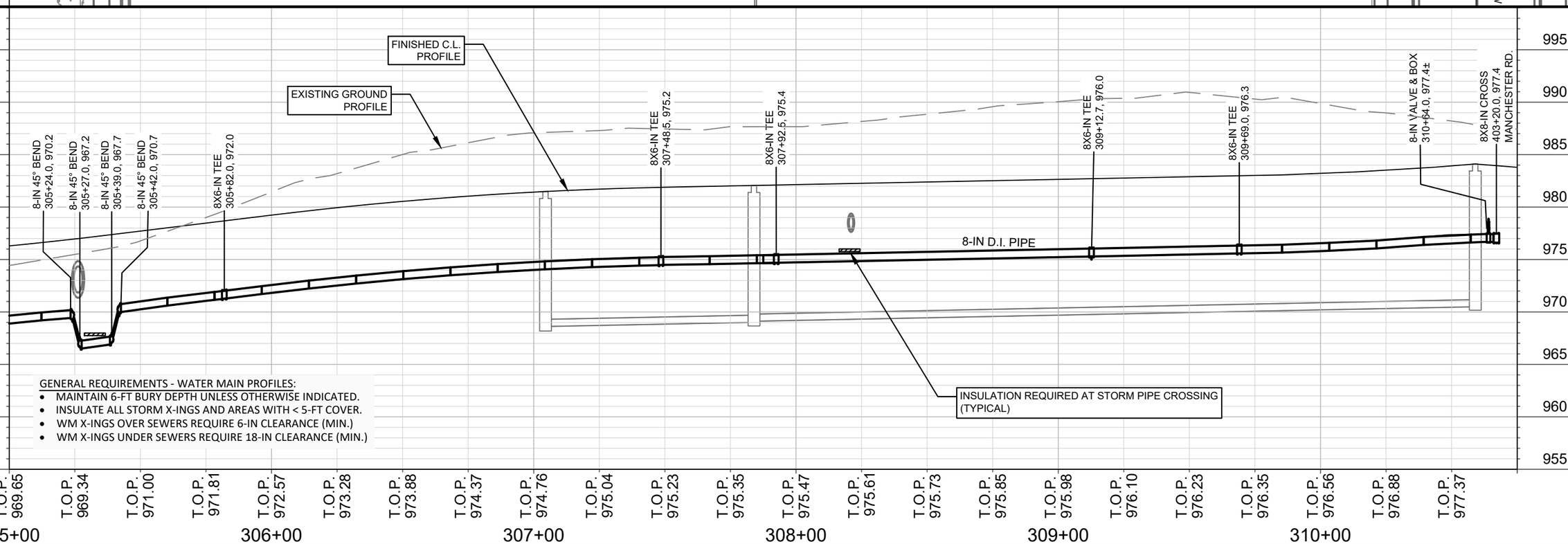
PLAN & PROFILE: FAIRHAVEN RD WATER

CITY OF MADISON, WISCONSIN

12310

W-3





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- 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

Madison Water Utility

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.

ROCKSTREAM DR.

V-16, ZONE BOUNDARY VALVE, NORMALLY CLOSED

SV-11
SV-20
HV-22
V-20
V-21
V-17
V-15
V-16
V-13
HV-23
DORAL CIR.
8"W
MANCHESTER RD.

PROPOSED WATER MAIN

WN 20
W-2

CUT-IN CONNECTION TO EXSTING 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 RD.
NOTE: V-16 IS A ZONE BOUNDARY VALVE AND IS NORMALLY CLOSED.

FAIRHAVEN RD.
FAIRHAVEN RD. 8"W
MAPLE GROVE DR.
DOLPHIN DR.
BEIHOFFER CT.
URICH TER.
SERENITY TR.
AMBLESIDE DR.
ROCKSTREAM DR.

- 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

V-12
HV-11
V-21
V-8
HV-6
V-9
HV-31
V-6
V-4
HV-3
V-30
SV-29
SV-28
HV-1
V-24
SV-39
SV-38
V-2
V-19
HV-9
V-8
HV-4
V-5
V-6
V-7
HV-25
V-26

3729
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3745
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3605
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3633
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3606
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6442
6546
6506
6446
6550
6502
6450
654
3962
6509
6545
6505
6549
6501

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

Madison Water Utility

CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN REPARATION. CONTRACTOR IS RESPONSIBLE OR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

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.

*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.

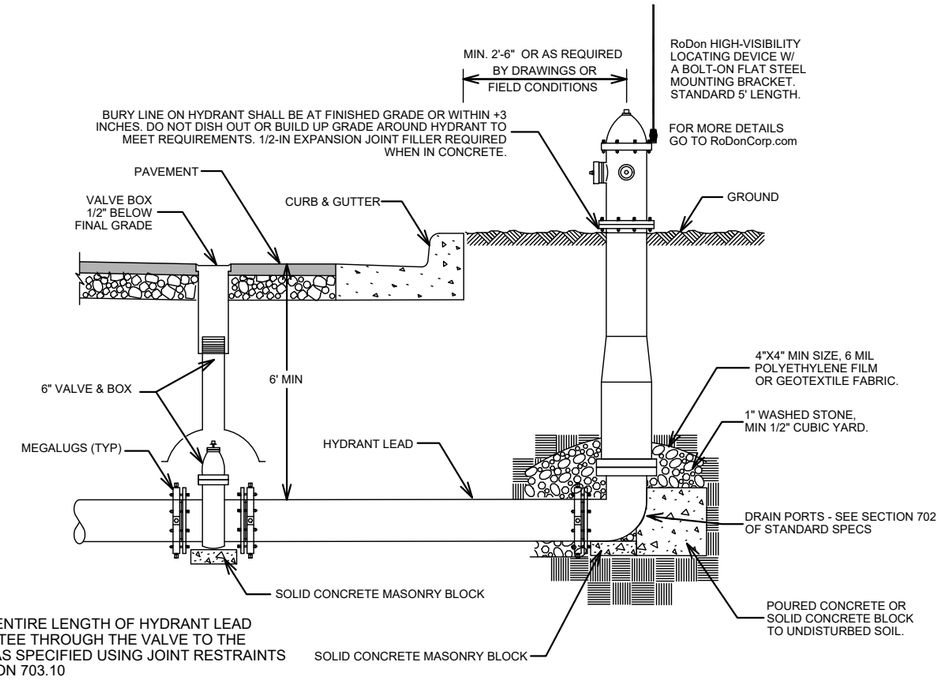
MEMBER ONE CALL SYSTEMS INTERNATIONAL

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

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.04**

REVISED: 12/2019



NOTE:

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

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

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

CONTRACT NO: 8402

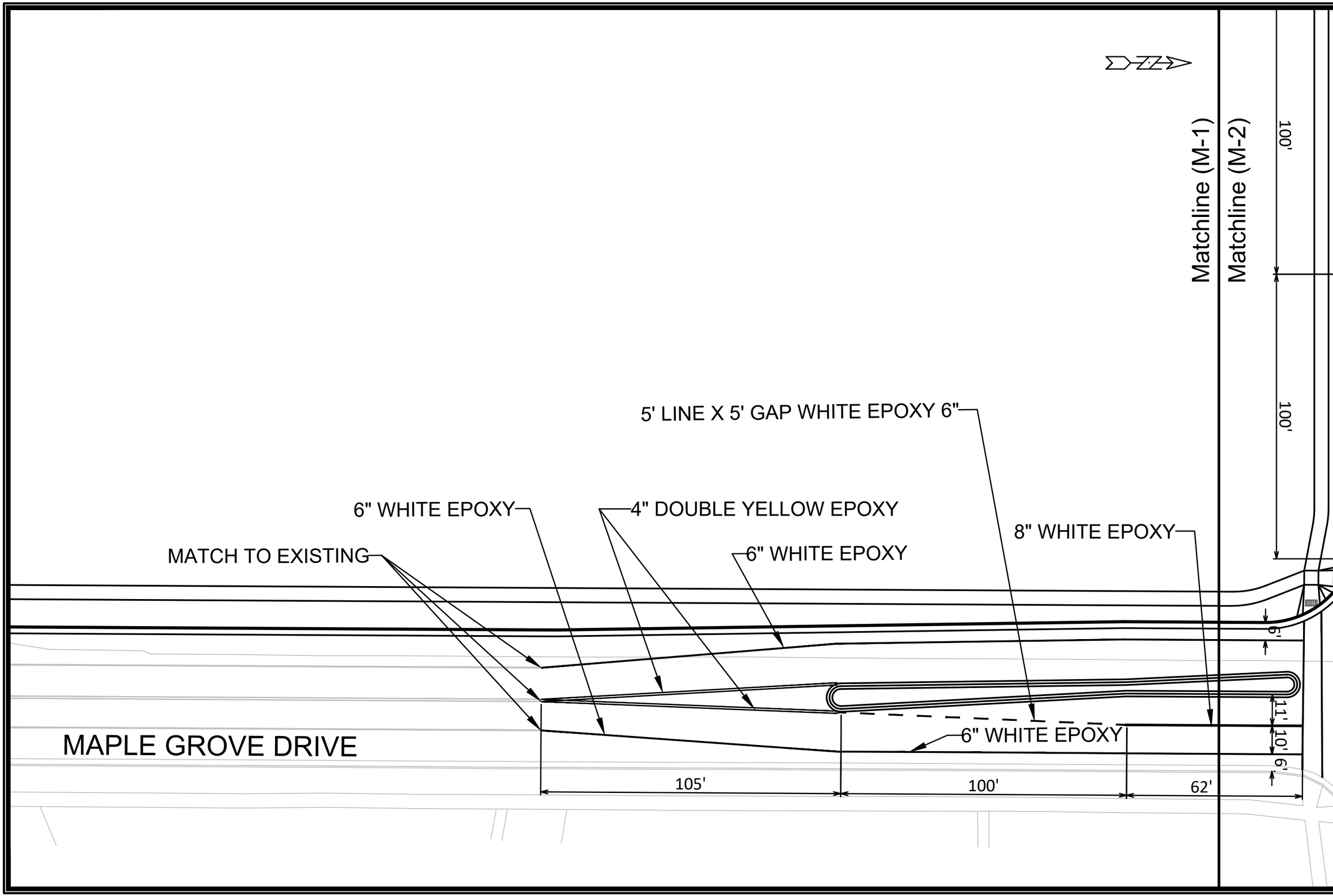
3840 MAPLE GROVE DRIVE

WATER ESTIMATE OF MATERIALS

CITY OF MADISON, WISCONSIN

12310

W-6



MARK	REVISION	DATE	BY
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Designed By: SDM | Date: 04/02/2020 | Scale: 1:30 | M-1

12310

MADISON, WI

CONTRACT NO: 8402

PAVEMENT MARKING PLAN

3840 MAPLE GROVE DRIVE

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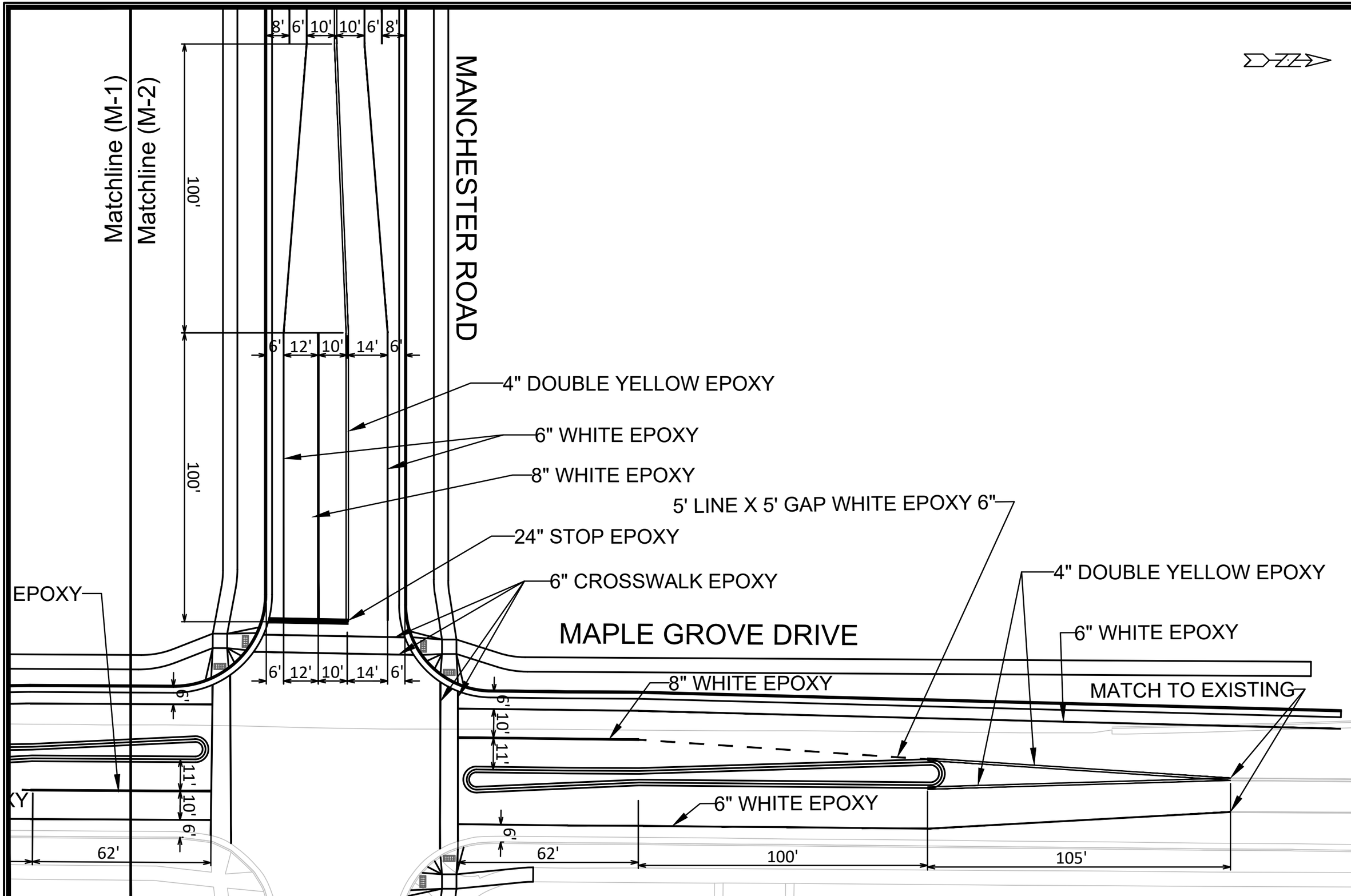
12310

M-1



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Designed By: SDM | Date: 04/02/2020 | Scale: 1:30 | M-2

12310

MADISON, WI

CONTRACT NO: 8402

PAVEMENT MARKING PLAN

3840 MAPLE GROVE DRIVE

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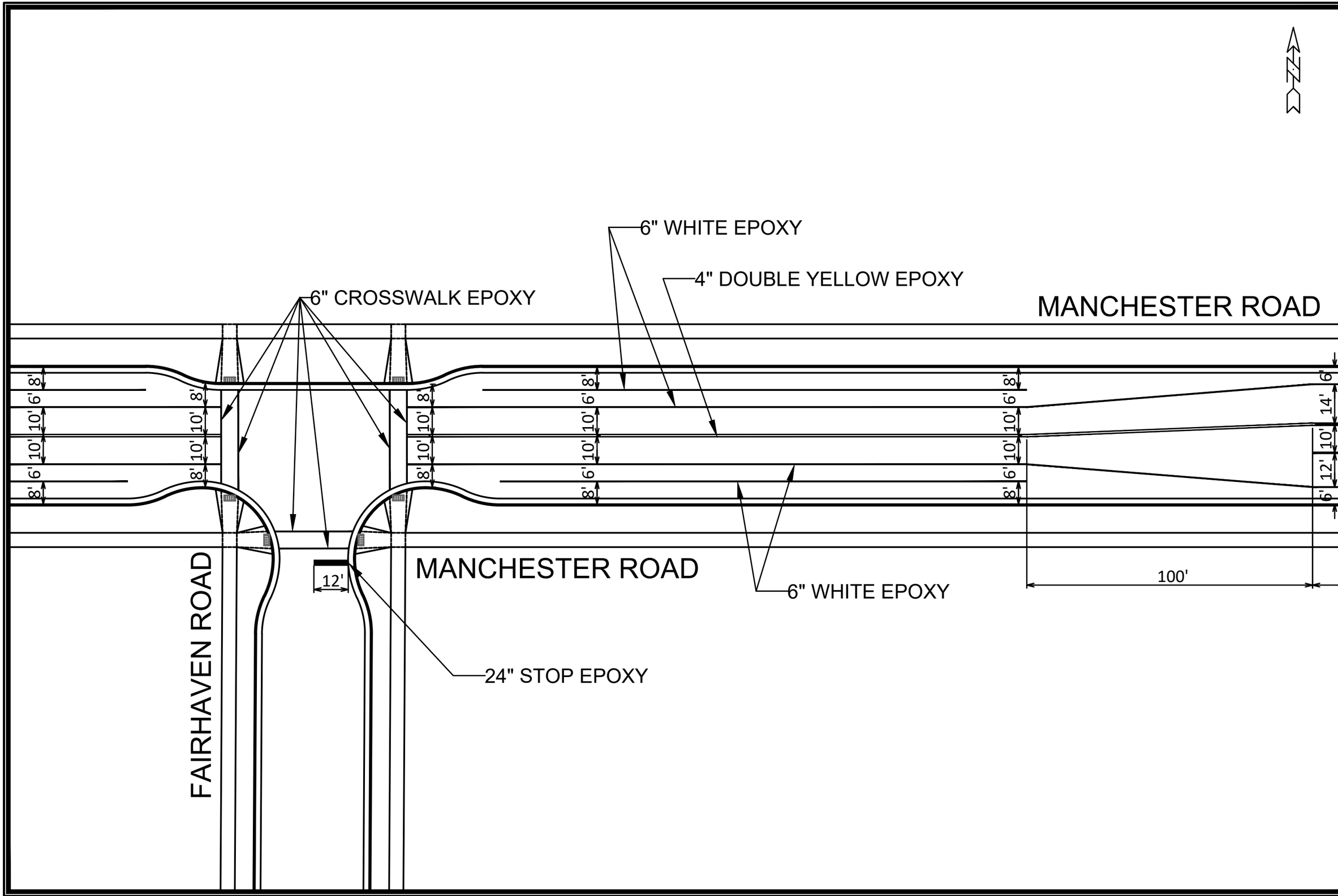
12310

M-2



MARK	REVISION	DATE	BY
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Designed By: SDM | Date: 04/02/2020 | Scale: 1:30 | M-3

12310

MADISON, WI

CONTRACT NO: 8402

PAVEMENT MARKING PLAN

3840 MAPLE GROVE DRIVE

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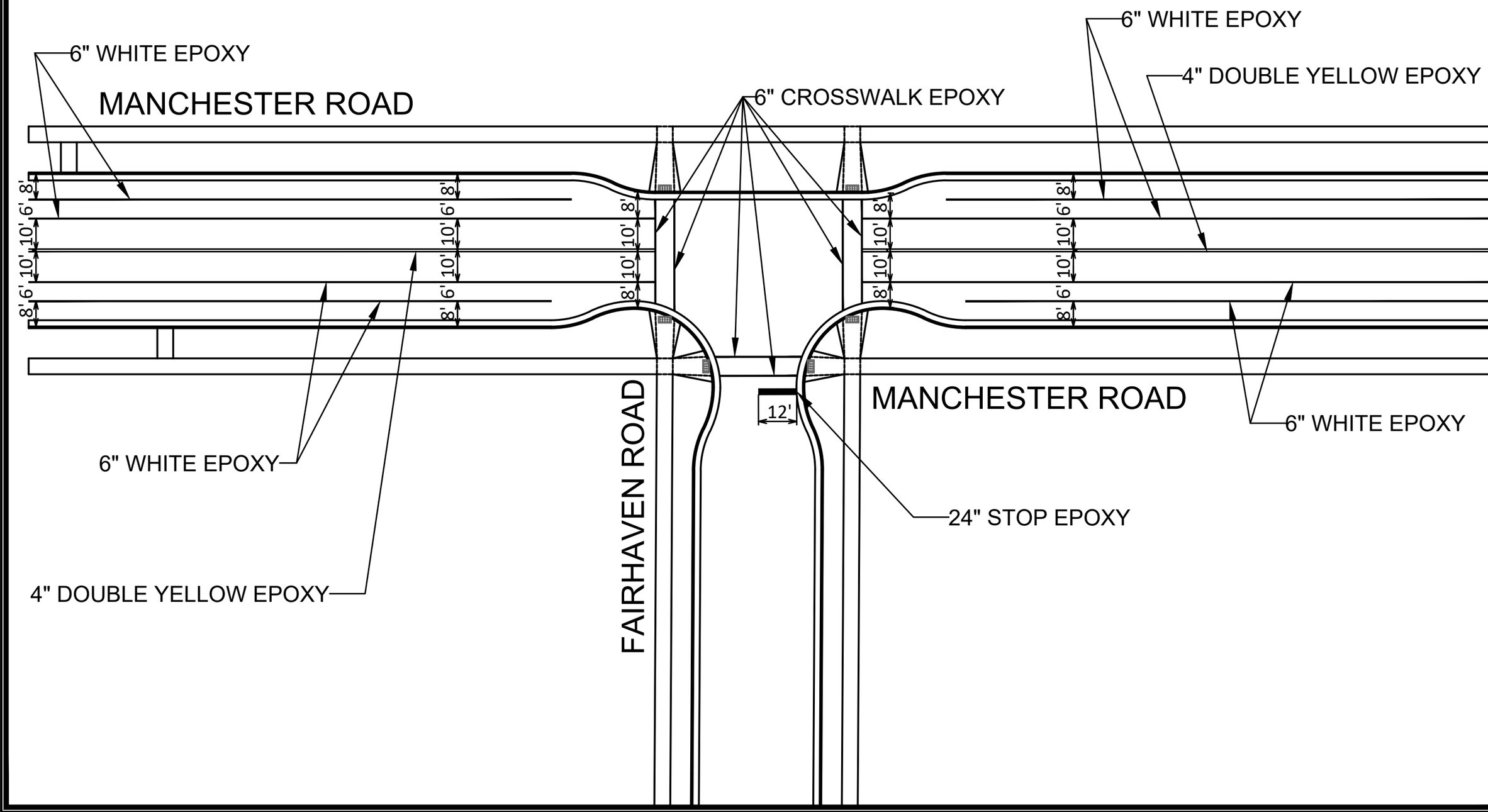
12310

M-3



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

12310

PAVEMENT MARKING PLAN

3840 MAPLE GROVE DRIVE

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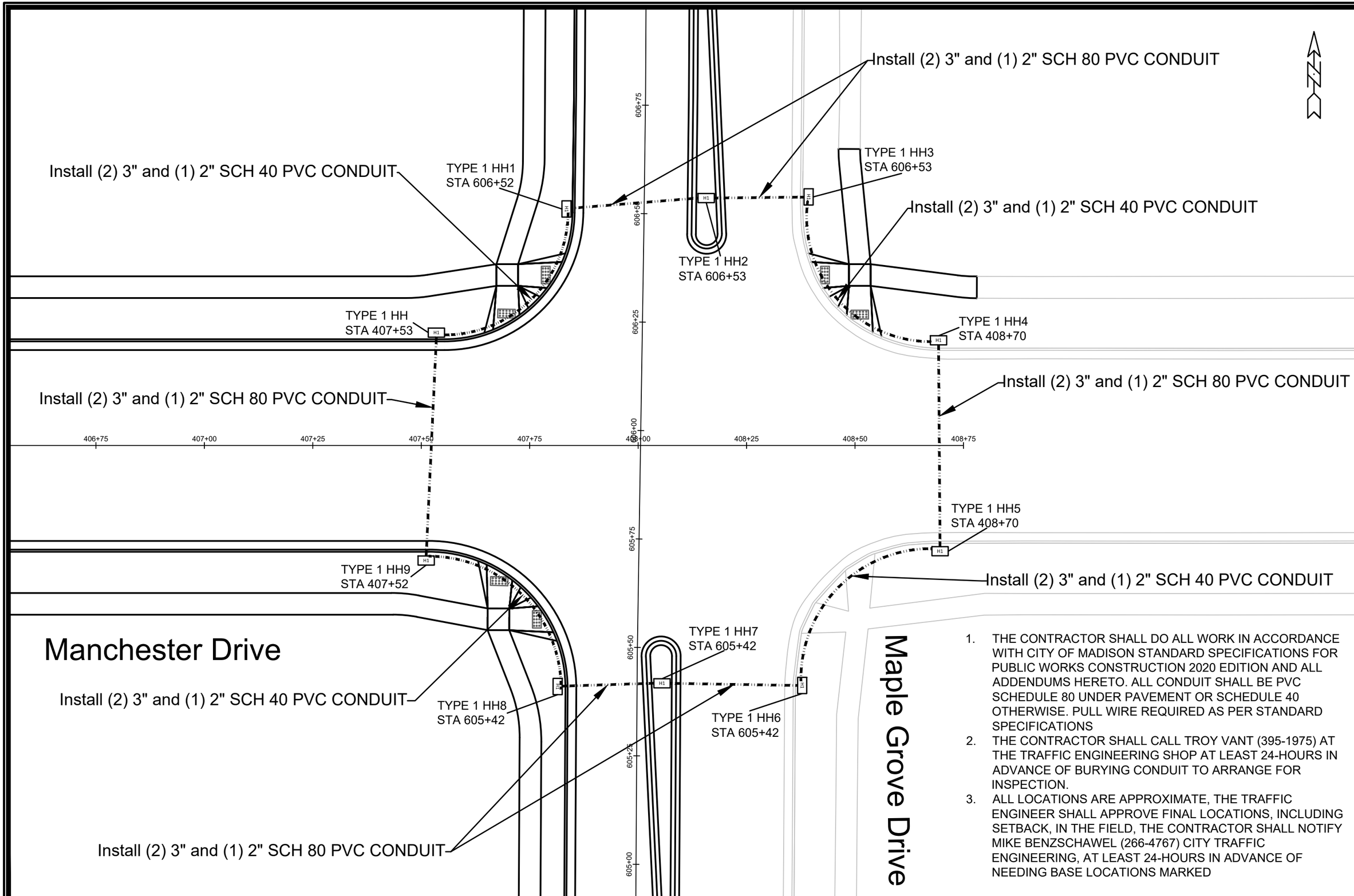
MADISON, WI

CONTRACT NO: 8402

12310

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

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12310

MADISON, WI

CONTRACT NO: 8402

ELECTRICAL PLAN

3840 MAPLE GROVE DRIVE

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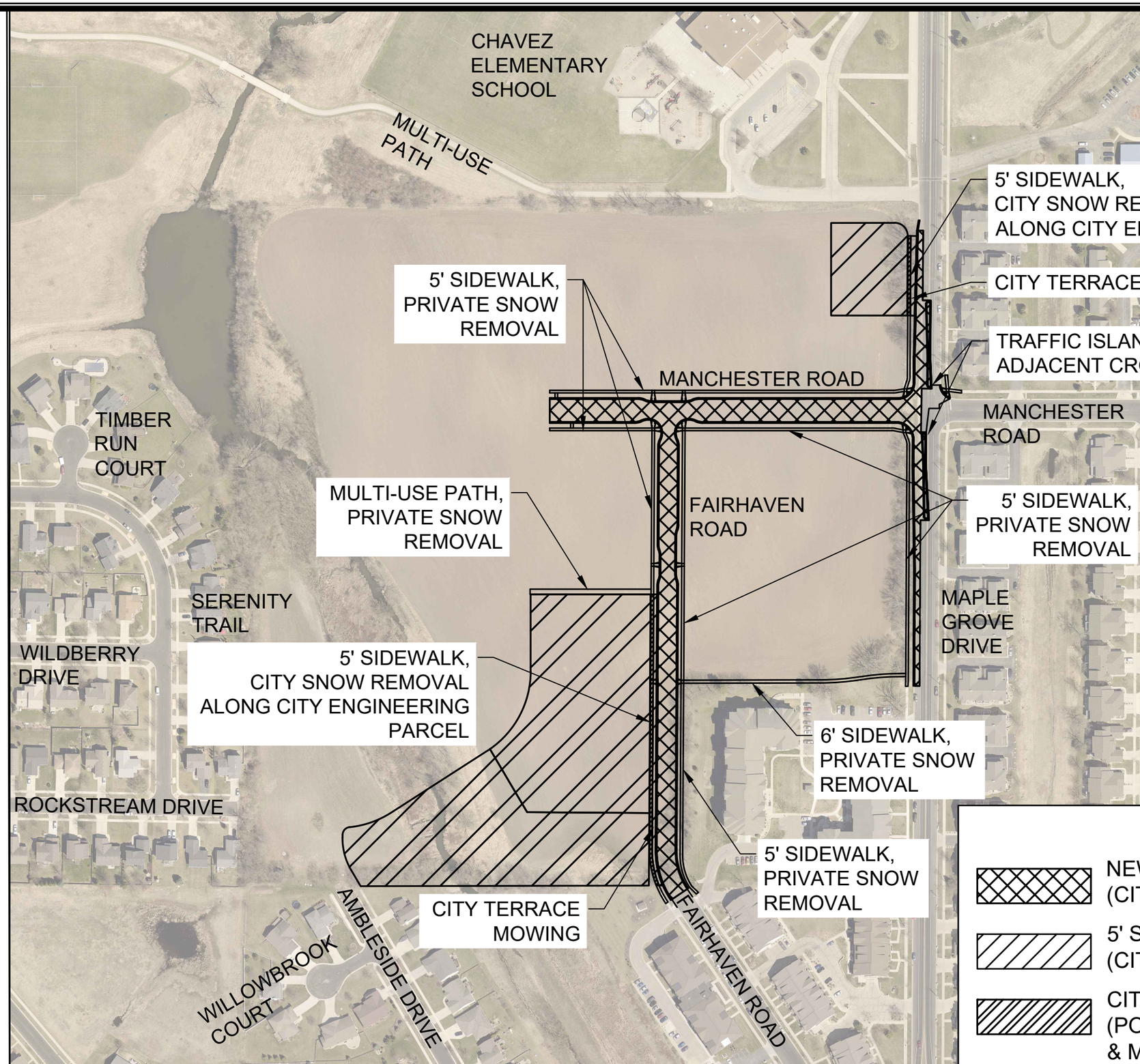
12310

E-1



LEGEND

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

MARK	REVISION	DATE	BY
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Designed By: AJZ | Date: 9/8/2020 9:23 AM | Scale: 1"=200'

12310

MADISON, WI

CONTRACT NO: 8402

MAINTANENCE MAP

3860 MAPLE GROVE DRIVE

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12310

MA-1