

Madison, Wisconsin

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CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

GRANDVIEW COMMONS NORTH ADD. PHASE 5,
GRANDVIEW COMMONS PHASE 26

CITY PROJECT NO. 11910, 11909
CITY CONTRACT NO. 8136, 8135

PUBLIC IMPROVEMENT PROJECT
APPROVED
FEBRUARY 6, 2018
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

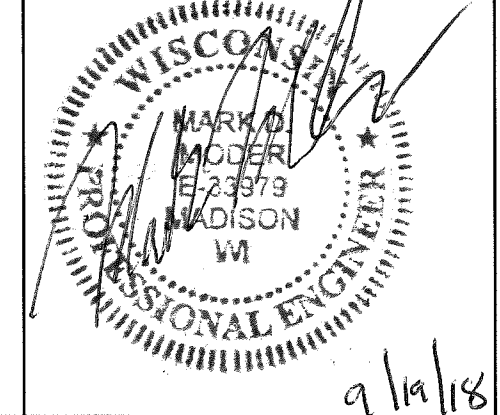
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 9/28/18
City Engineer Date

STREET GRADES
DESIGNED BY:



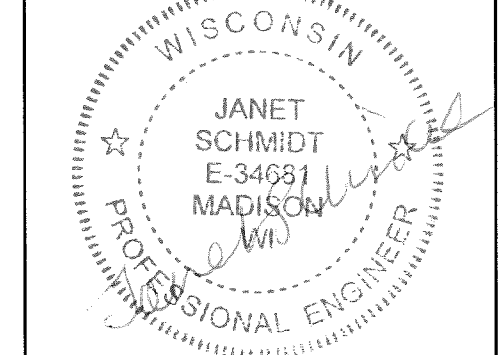
SANITARY SEWER
DESIGNED BY:



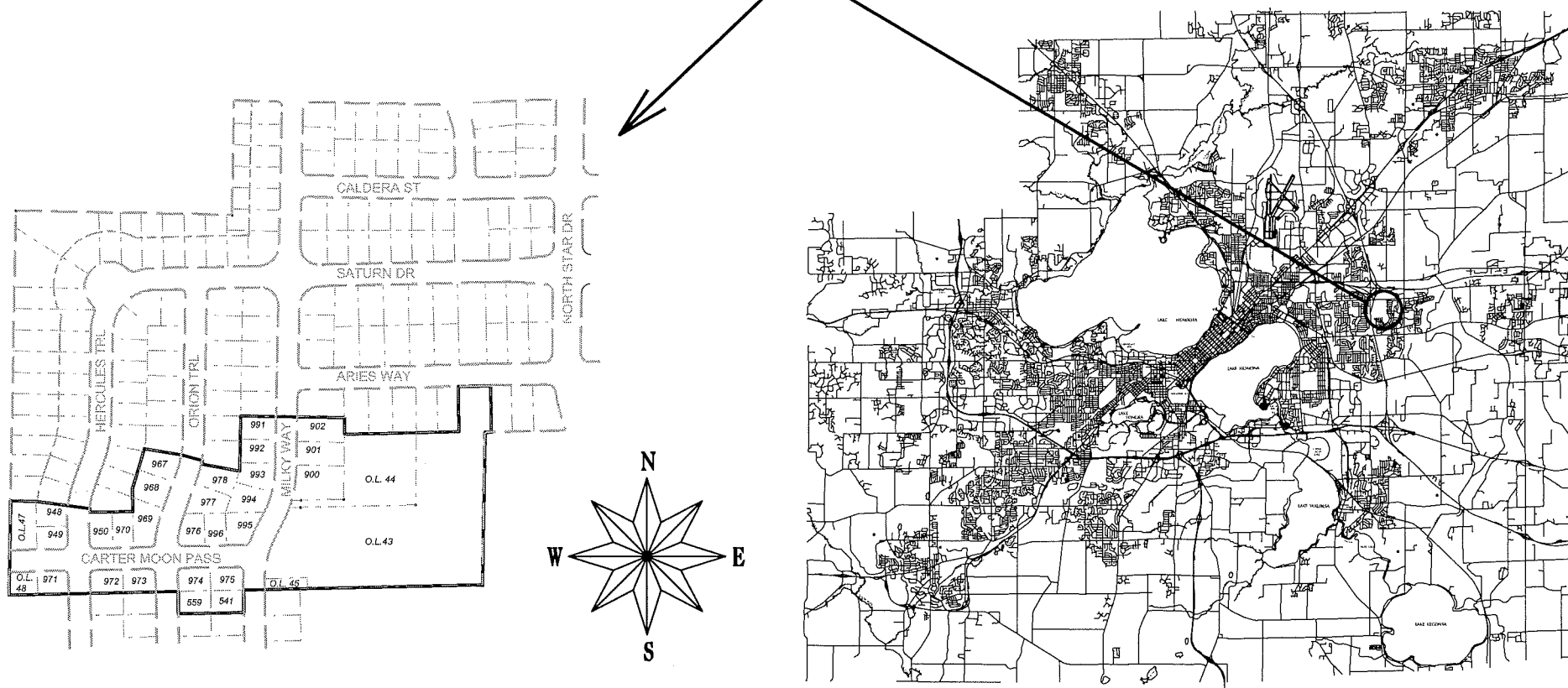
WATER
DESIGNED BY:



STORM SEWER
DESIGNED BY:



PROJECT LOCATION



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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.

TOPSOIL IN MEDIANS AND ROUNDABOUTS SHALL BE 24" IN DEPTH

THE DEVELOPER/CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO WORK BEGINNING WITHIN THE RIGHT OF WAY. WORK SHALL NOT PROCEED IN THE RIGHT OF WAY UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED. THE TRAFFIC CONTROL PLAN MAY INCLUDE BUT IS NOT LIMITED TO: LANE CLOSURE RESTRICTIONS, PEAK HOUR WORKING RESTRICTIONS, ACCESS REQUIREMENTS, ETC. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR PHASING WORK AS NECESSARY TO MEET THE REQUIREMENTS OF THE APPROVED TRAFFIC CONTROL PLAN.

ALL PAVEMENT IN THE CARTER MOON PASS AND ORION TRAIL RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02. ALL PAVEMENT IN THE HERCULES TRAIL AND MILKY WAY RIGHT-OF-WAY SHALL BE TYPE B 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 GRADES OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL 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. 3.03. 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 4:00:1. 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 ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) 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 PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

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



THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

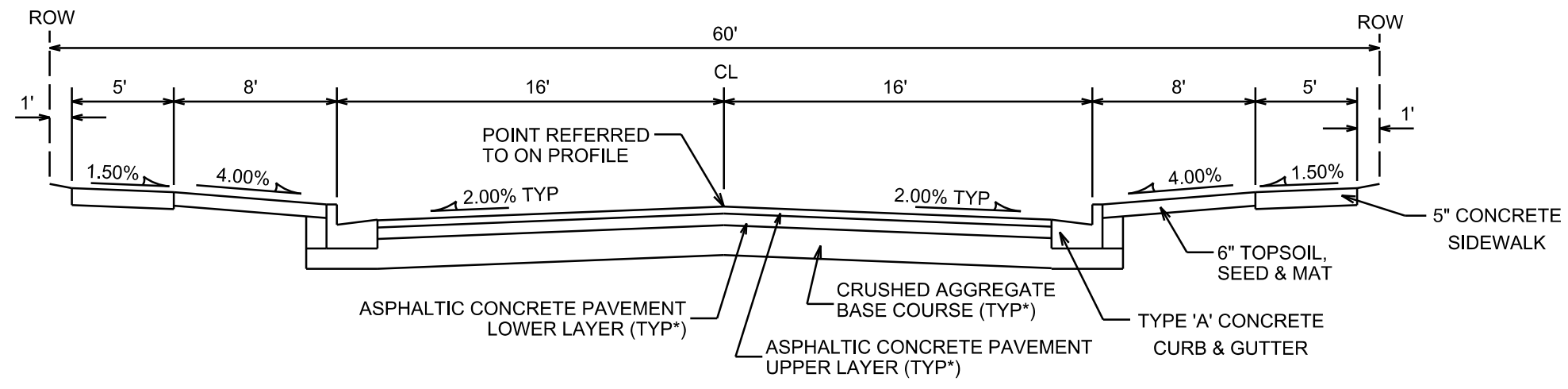
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	—— SAN ——
WATER	—— W ——
OVERHEAD ELECTRIC	—— OH ——
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

PLOT SCALE: _____

PLOT NAME: _____

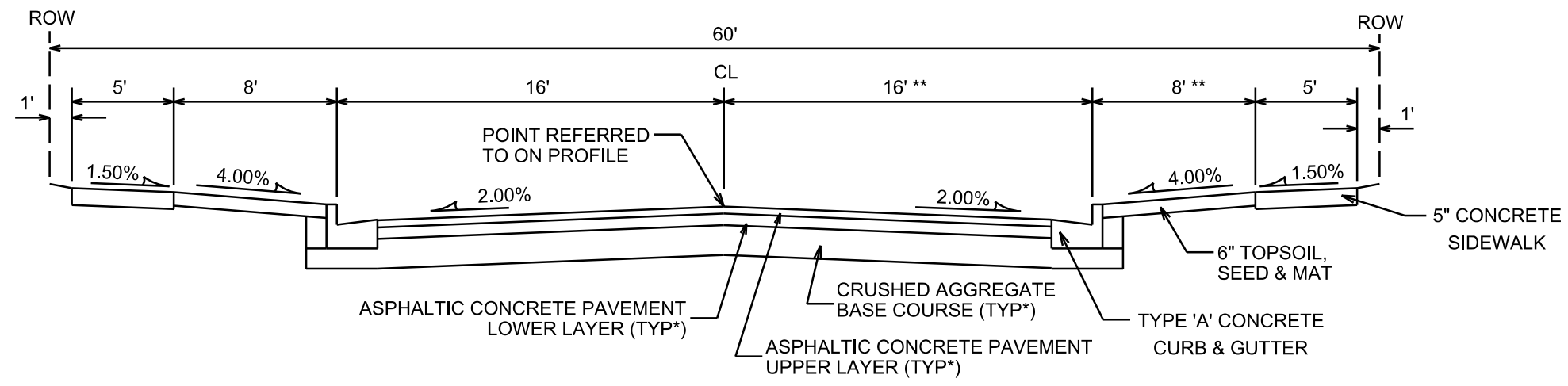
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

CARTER MOON PASS
HERCULES TRIAL
ORION TRAIL



TYPICAL SECTION

MILKY WAY

NOTES:

- * CARTER MOON PASS AND ORION TRAIL TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT; HERCULES TRIAL AND MILKY WAY TO BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN
- ** VARIES FROM STA 29+50 TO STA 30+75. SEE SHEET P-4

CITY OF MADISON MINIMUM PAVEMENT DESIGN

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

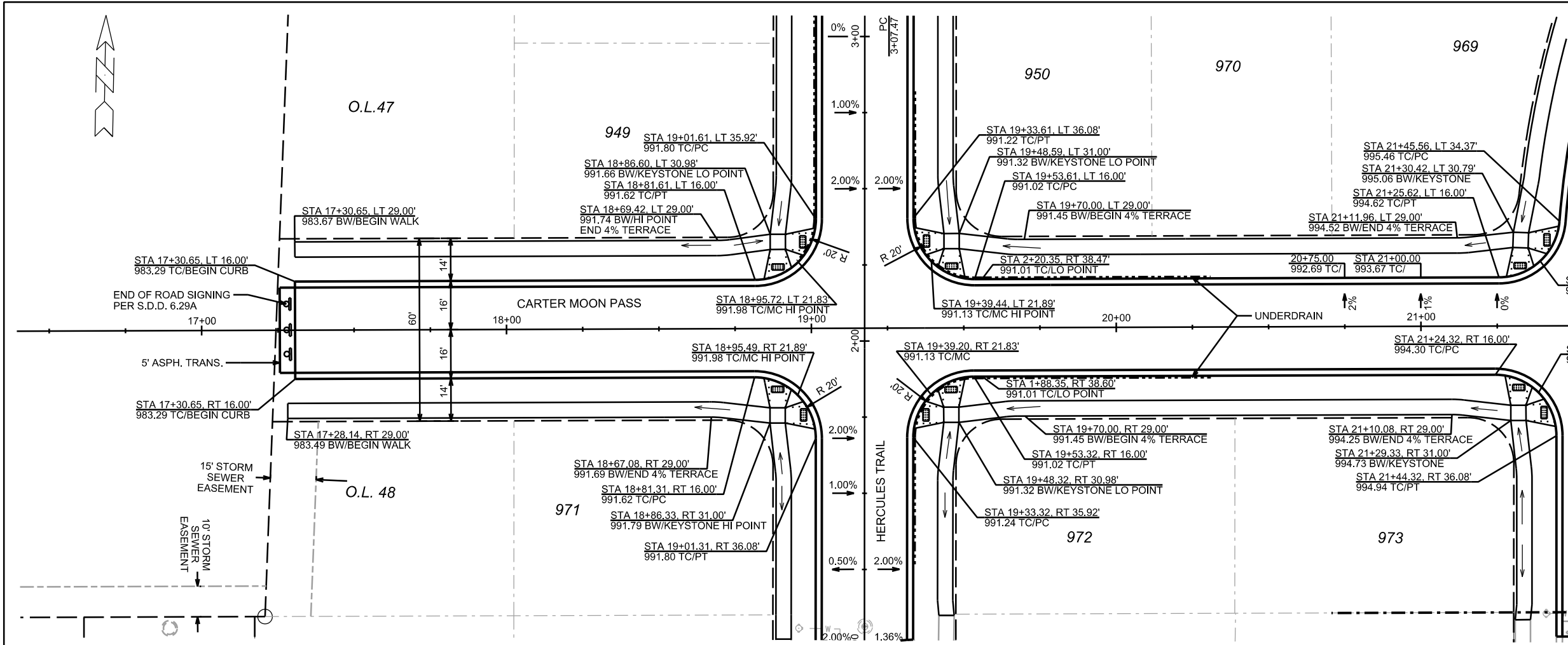
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PLOT NAME: _____

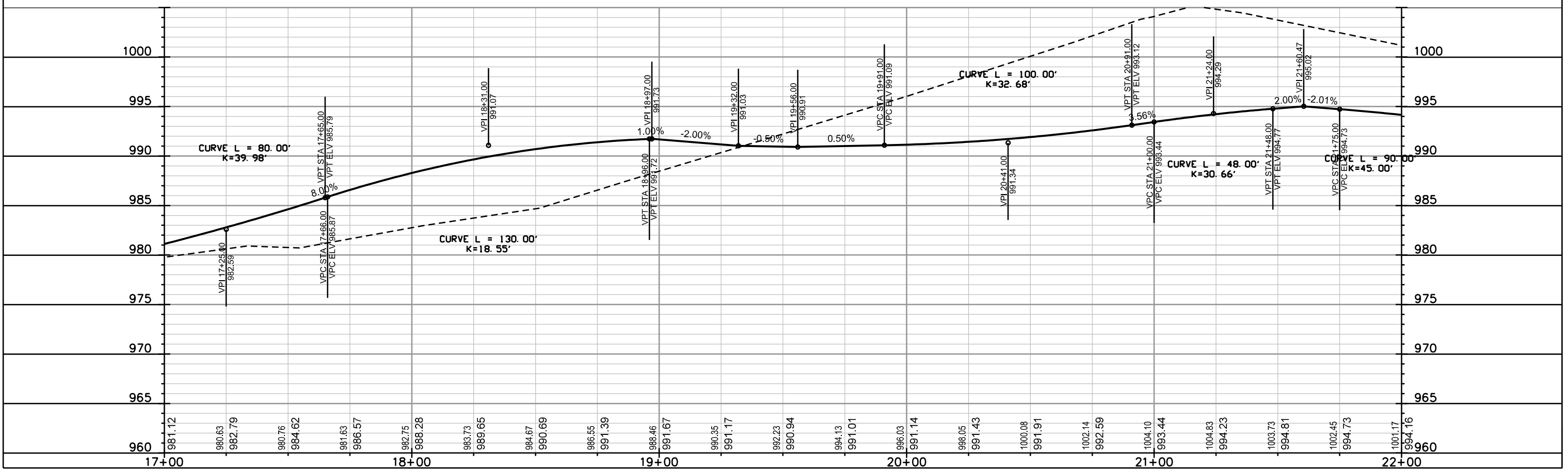
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
CARTER MOON PASS CITY OF MADISON



SEE SHEET P-5 FOR INTERSECTION CURB GRADES ON EAST SIDE OF ORION TRAIL AND CARTER MOON PASS

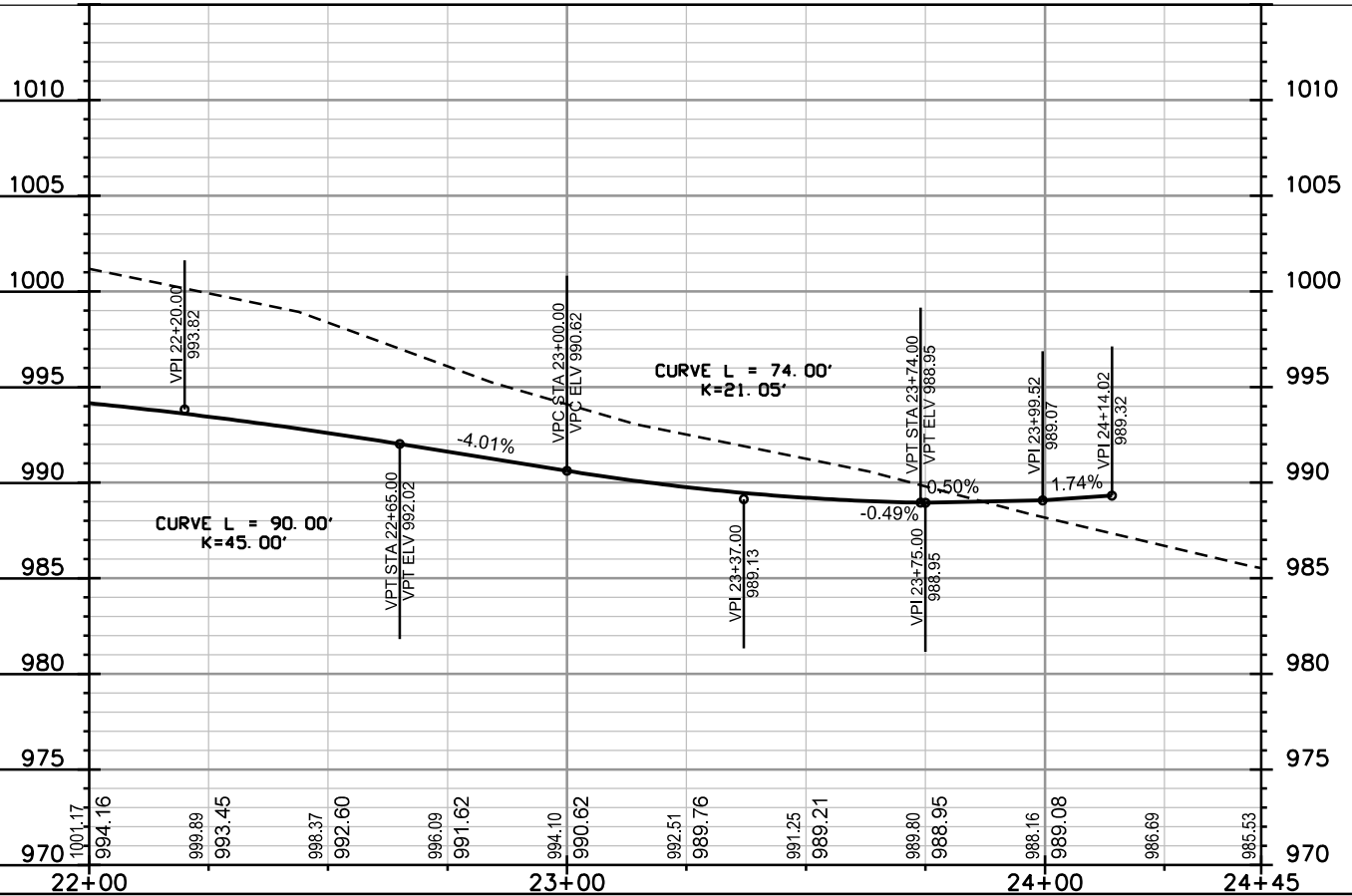
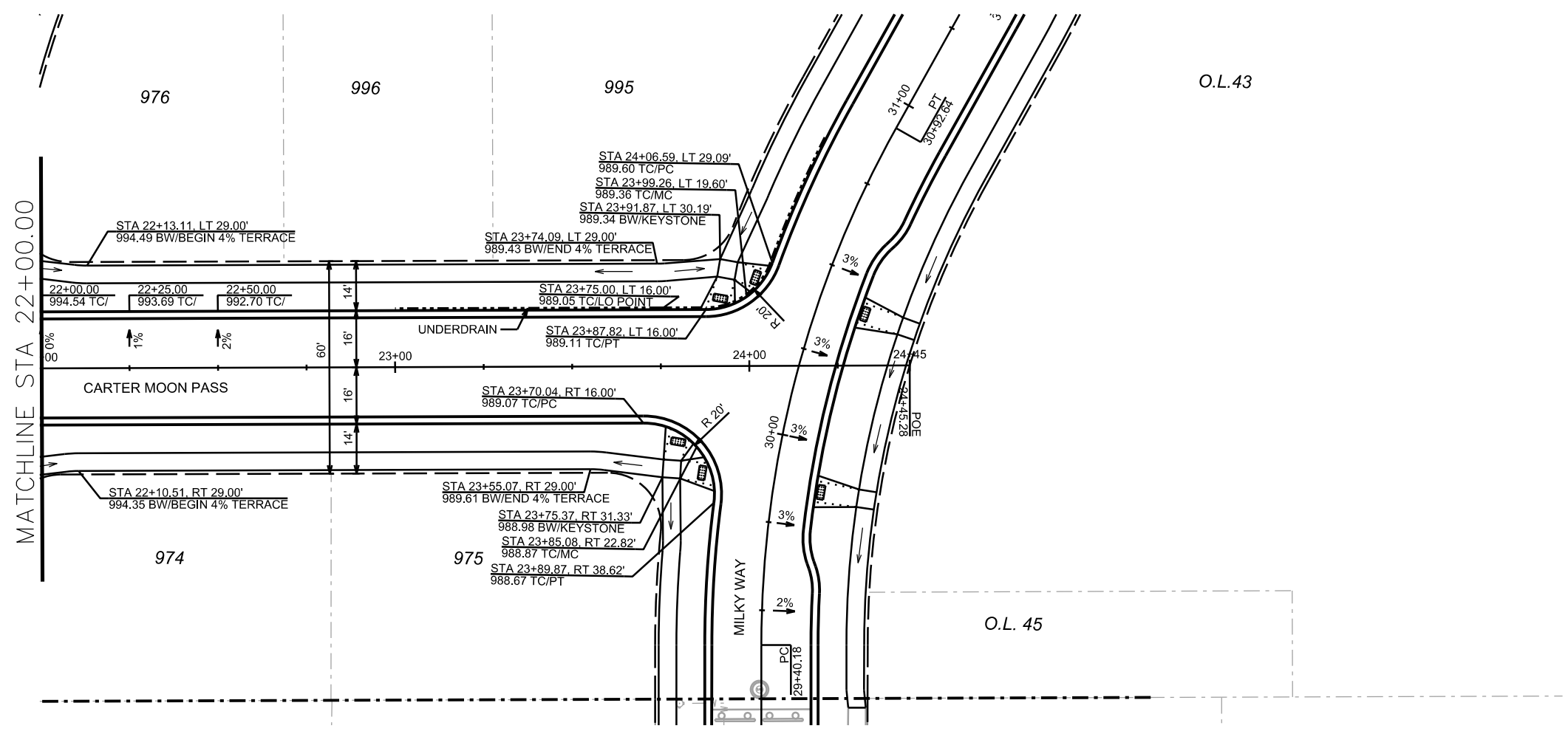


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



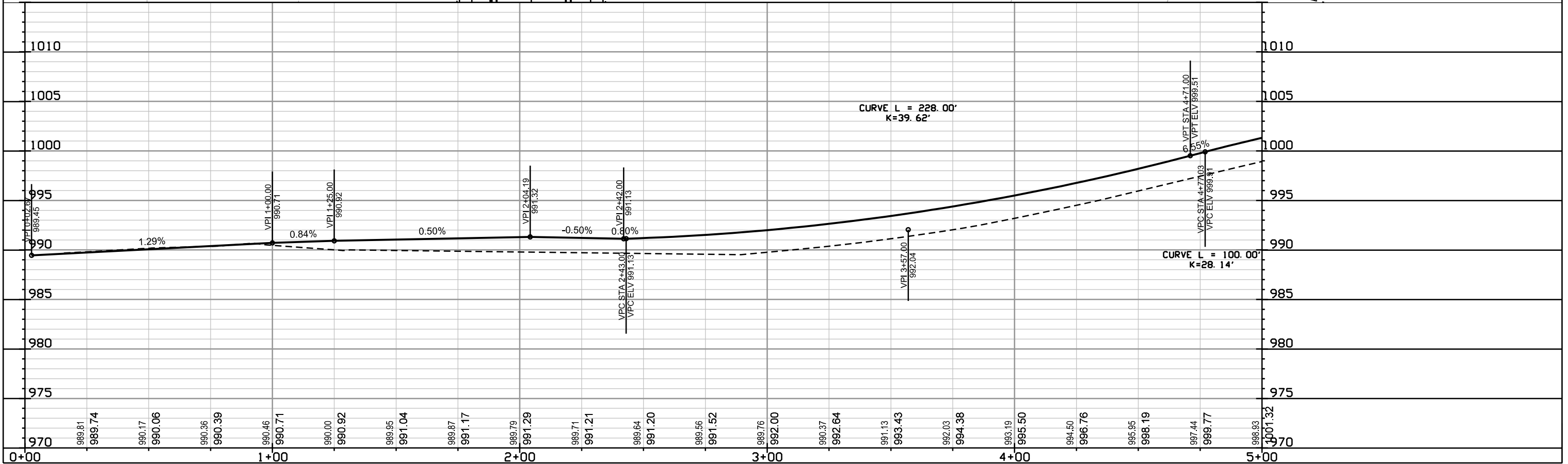
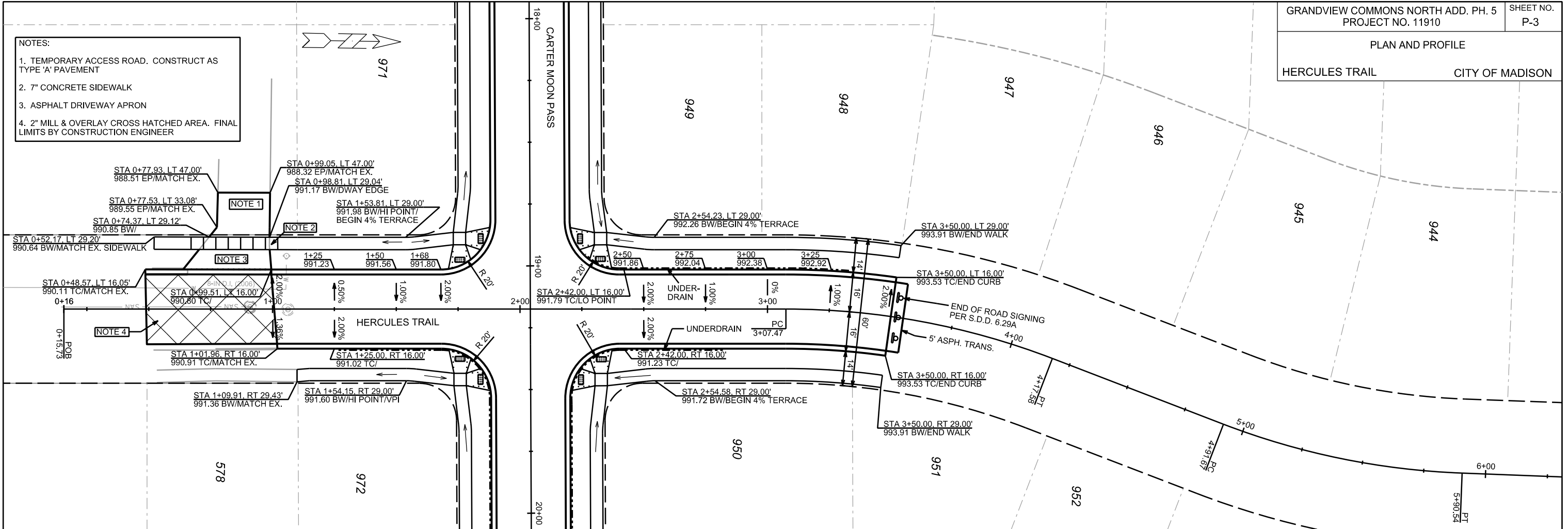
PLOT SCALE: _____

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REV. DATE: _____

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- NOTES:
1. TEMPORARY ACCESS ROAD. CONSTRUCT AS TYPE 'A' PAVEMENT
 2. 7" CONCRETE SIDEWALK
 3. ASPHALT DRIVEWAY APRON
 4. 2" MILL & OVERLAY CROSS HATCHED AREA. FINAL LIMITS BY CONSTRUCTION ENGINEER

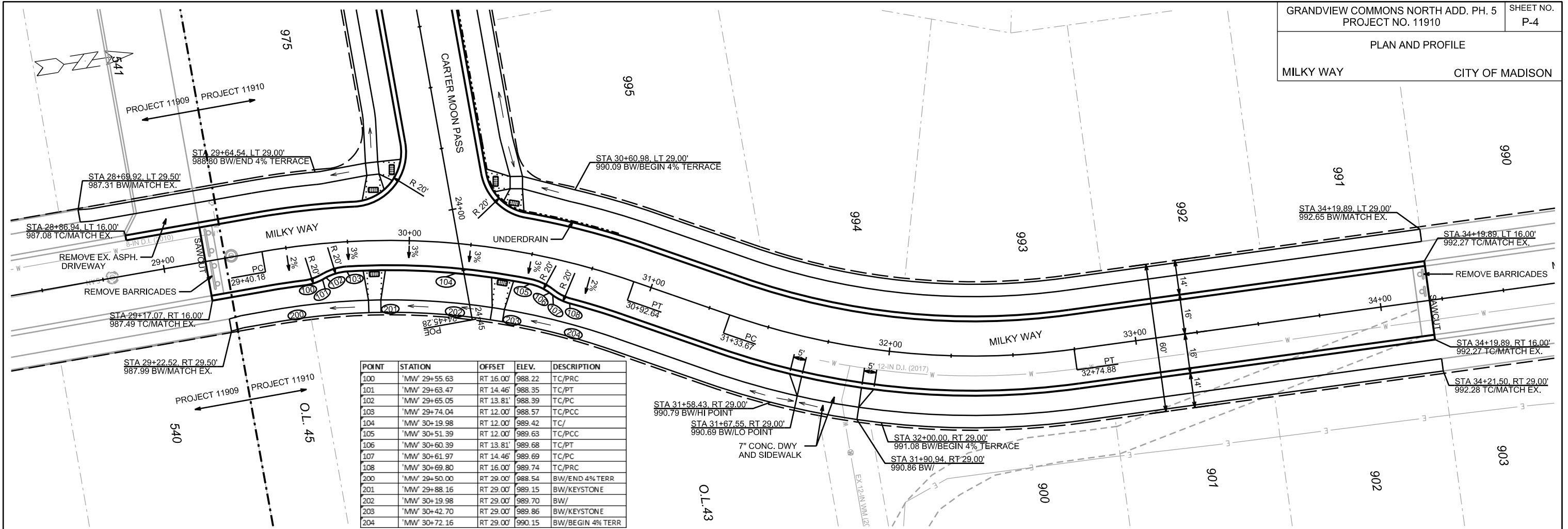


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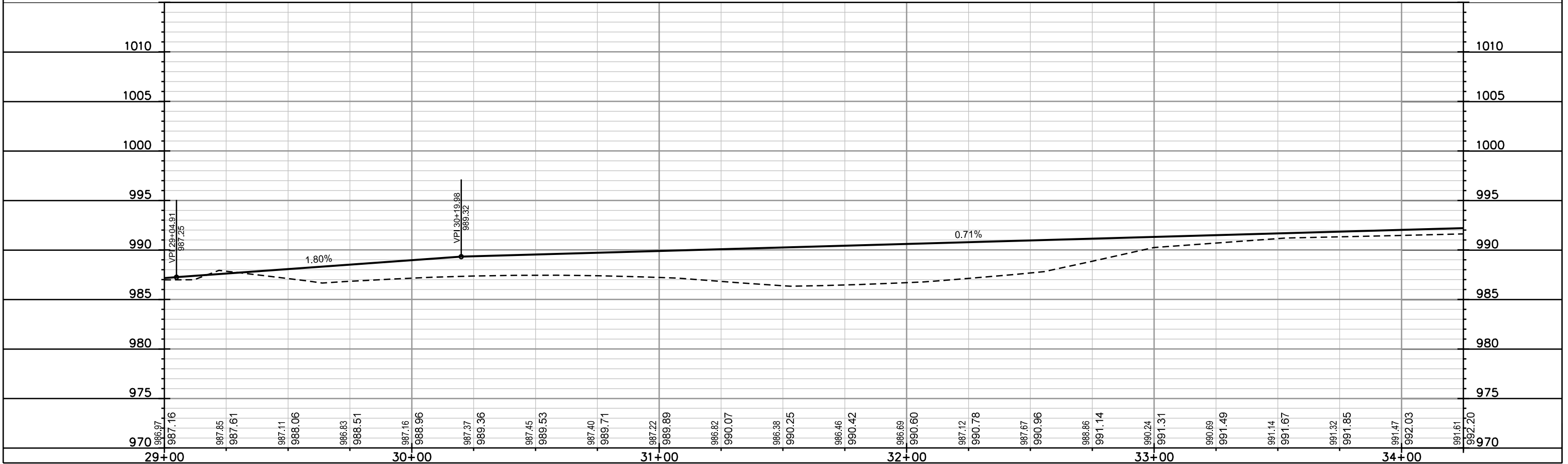
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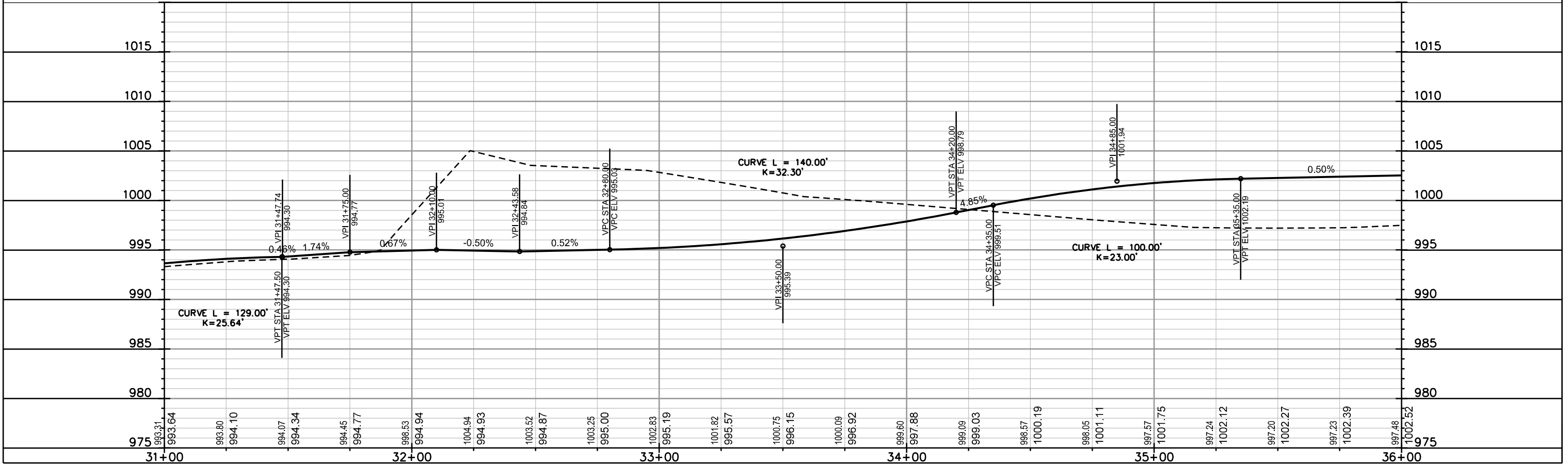
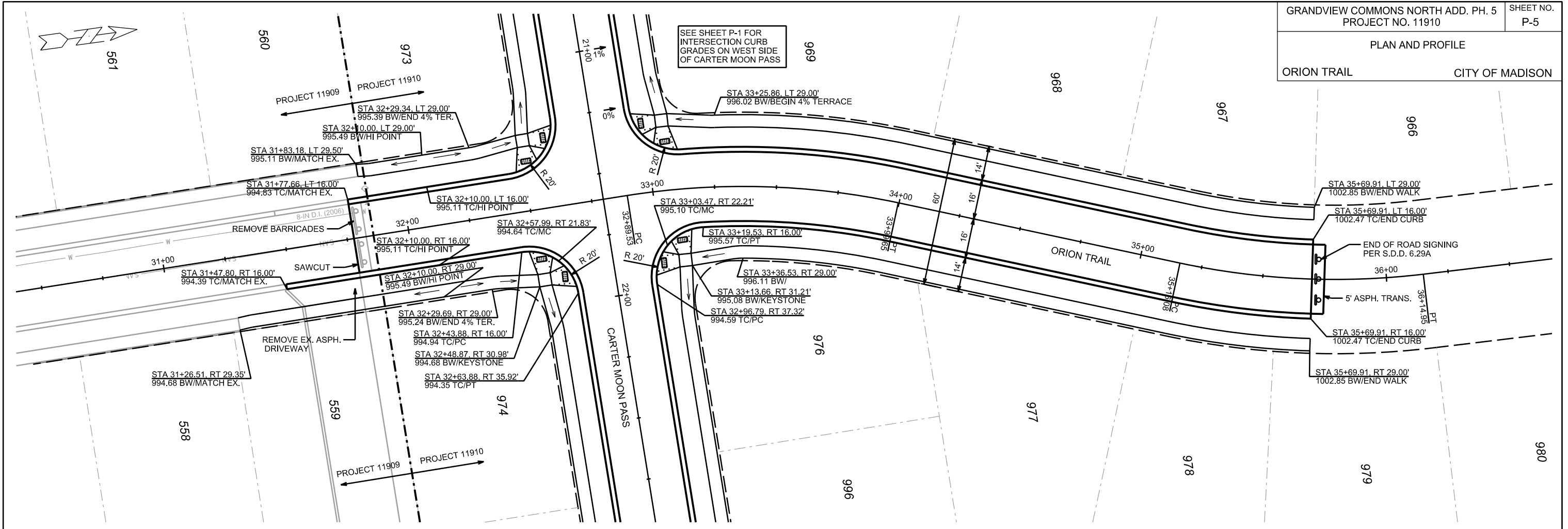
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



POINT	STATION	OFFSET	ELEV.	DESCRIPTION
100	'MW' 29+55.63	RT 16.00'	988.22	TC/PRC
101	'MW' 29+63.47	RT 14.46'	988.35	TC/PT
102	'MW' 29+65.05	RT 13.81'	988.39	TC/PC
103	'MW' 29+74.04	RT 12.00'	988.57	TC/PCC
104	'MW' 30+19.98	RT 12.00'	989.42	TC/
105	'MW' 30+51.39	RT 12.00'	989.63	TC/PCC
106	'MW' 30+60.39	RT 13.81'	989.68	TC/PT
107	'MW' 30+61.97	RT 14.46'	989.69	TC/PC
108	'MW' 30+69.80	RT 16.00'	989.74	TC/PRC
200	'MW' 29+50.00	RT 29.00'	988.54	BW/END 4% TERR
201	'MW' 29+88.16	RT 29.00'	989.15	BW/KEYSTONE
202	'MW' 30+19.98	RT 29.00'	989.70	BW/
203	'MW' 30+42.70	RT 29.00'	989.86	BW/KEYSTONE
204	'MW' 30+72.16	RT 29.00'	990.15	BW/BEGIN 4% TERR



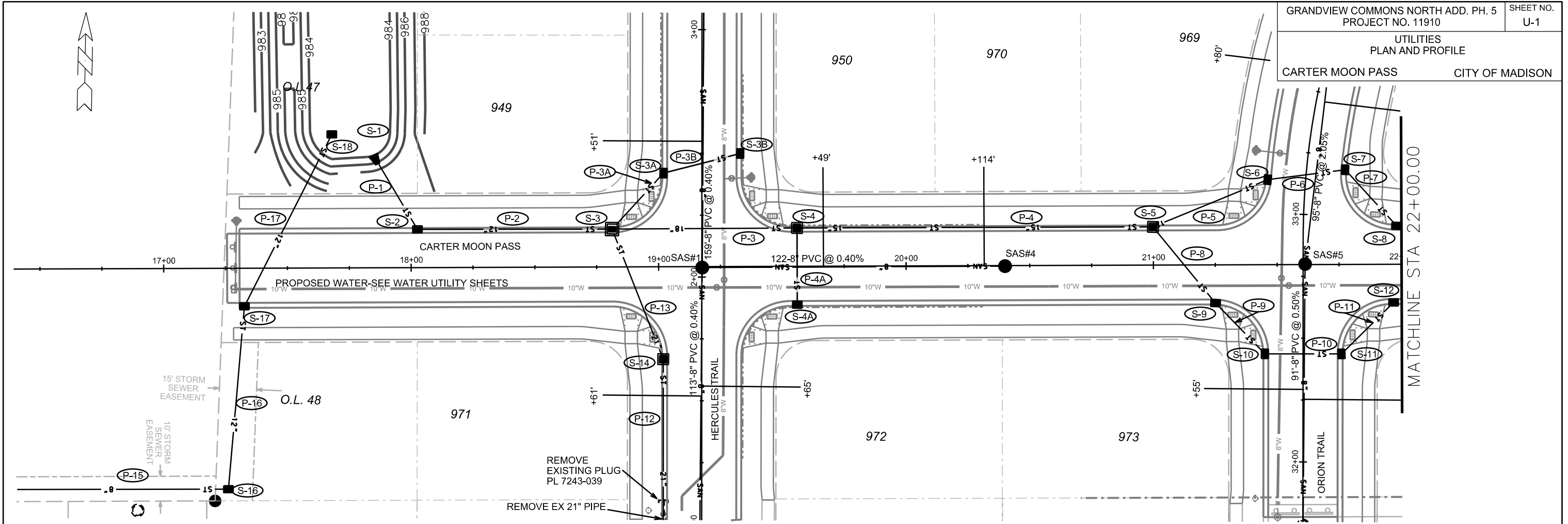


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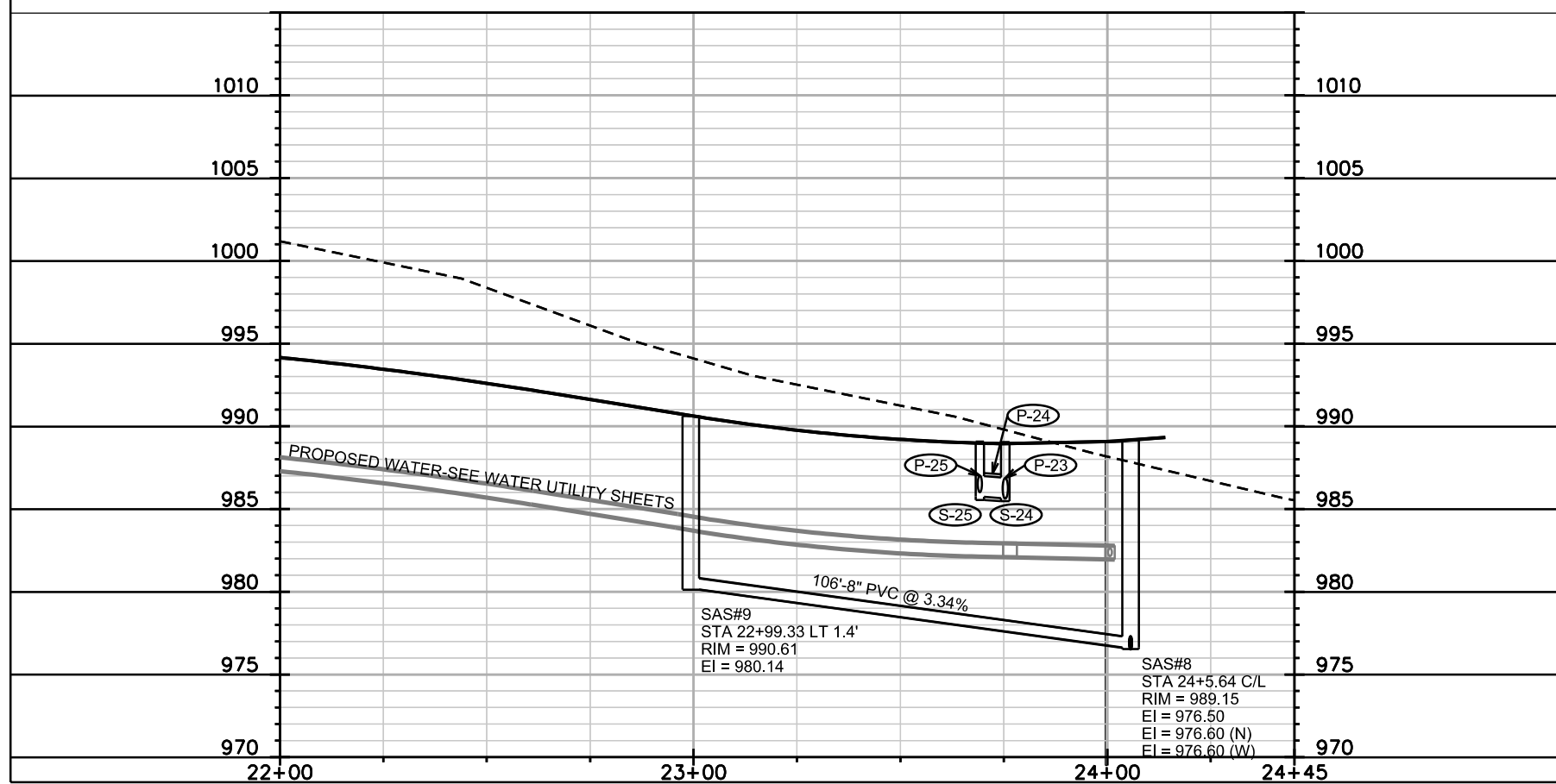
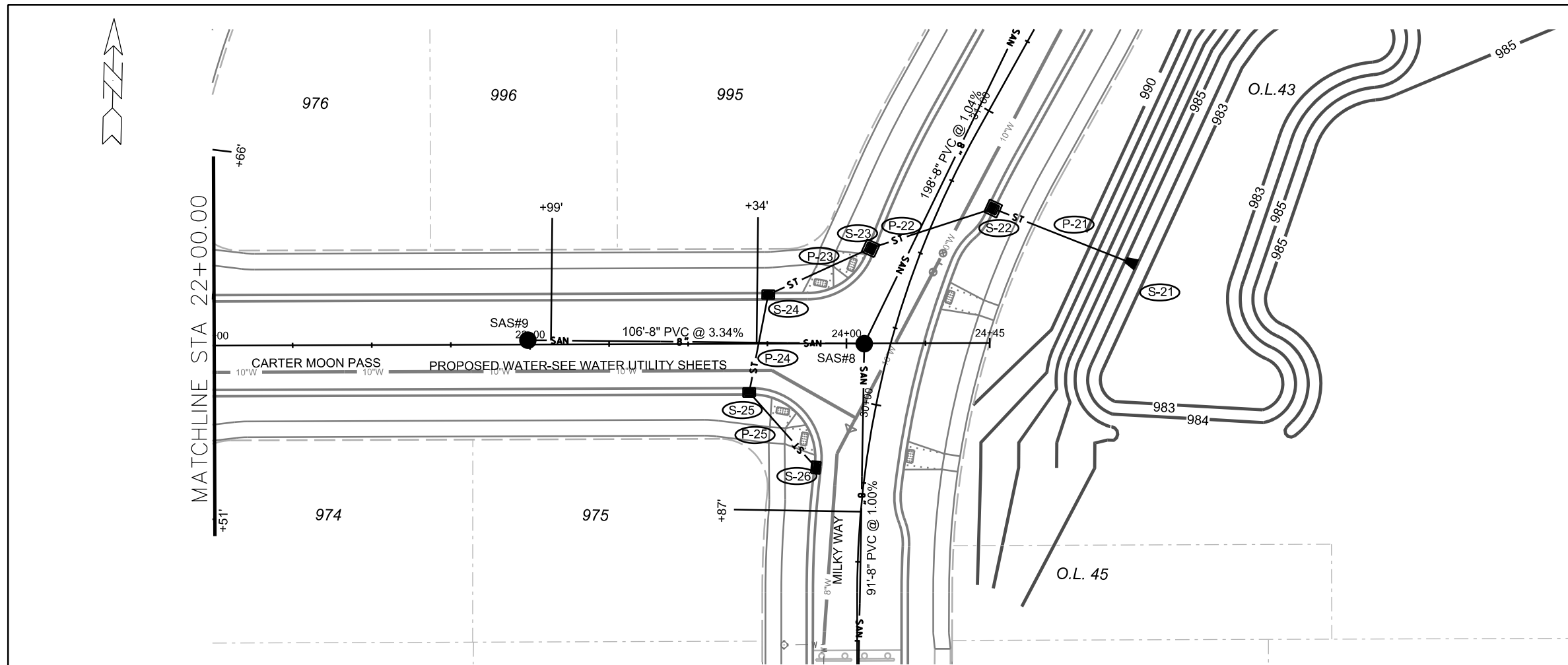
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

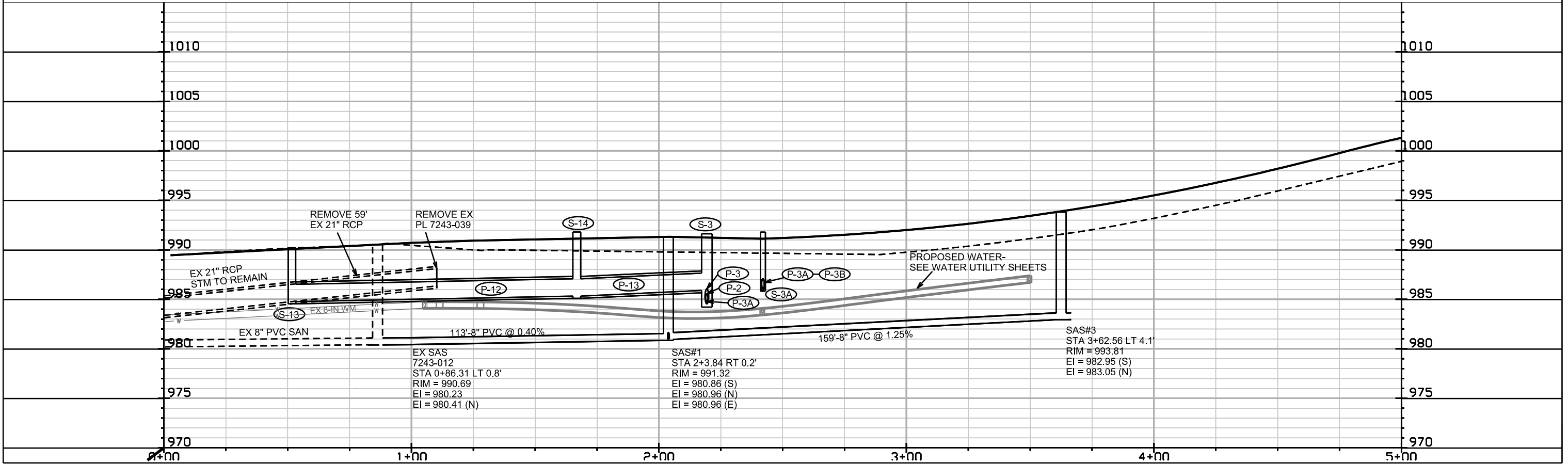
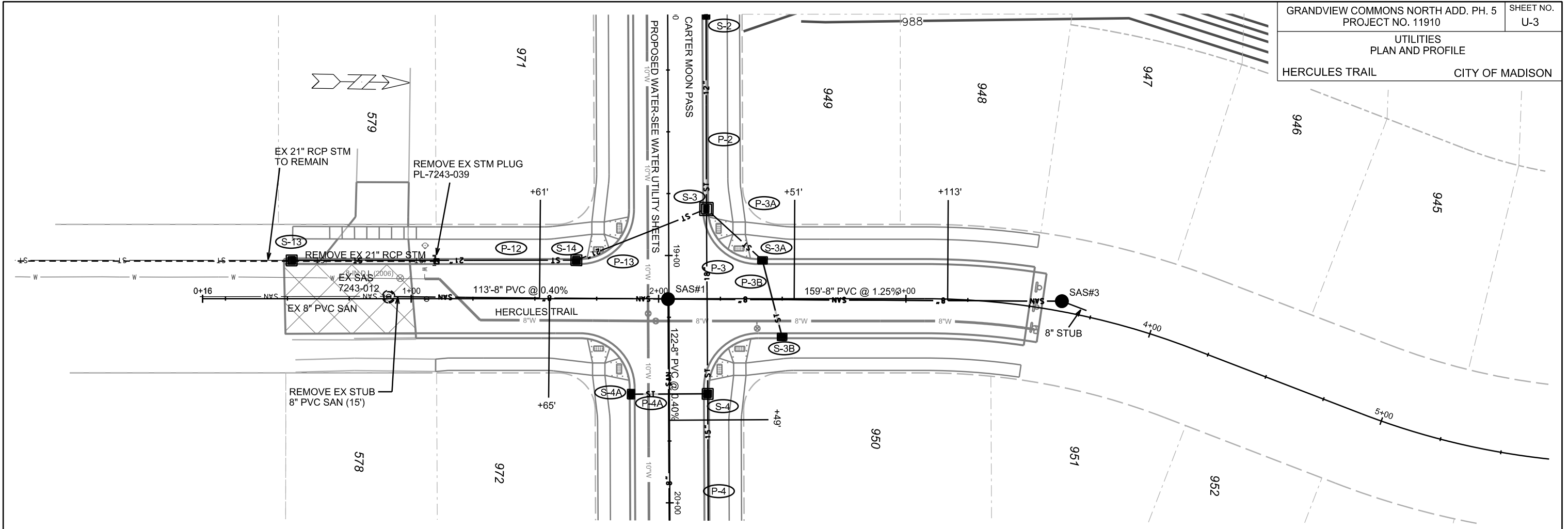


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

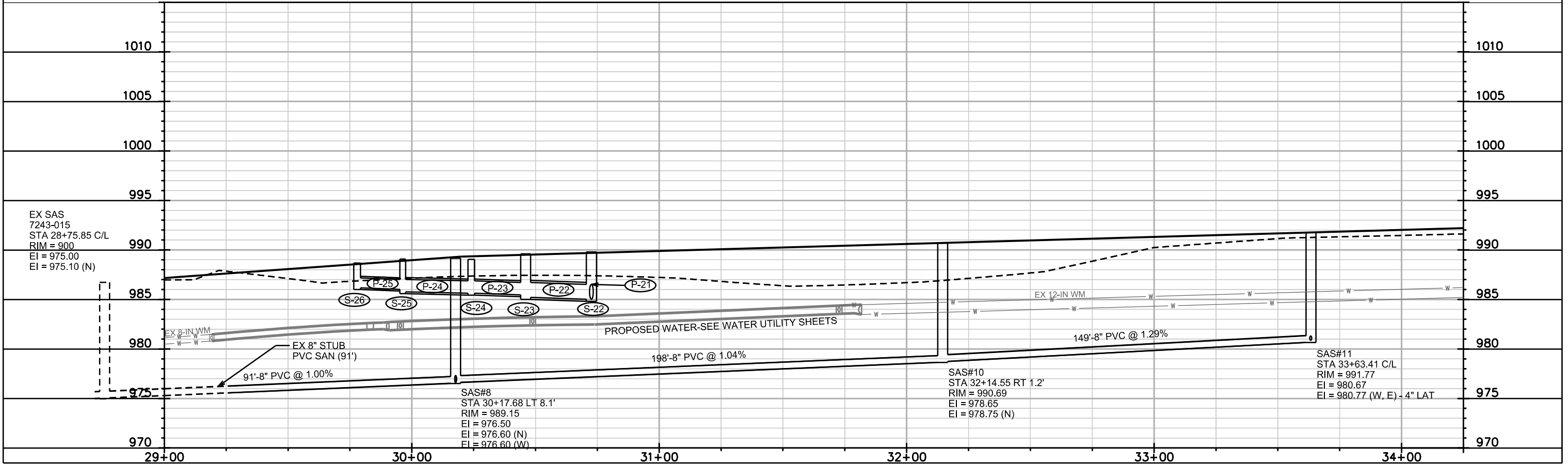
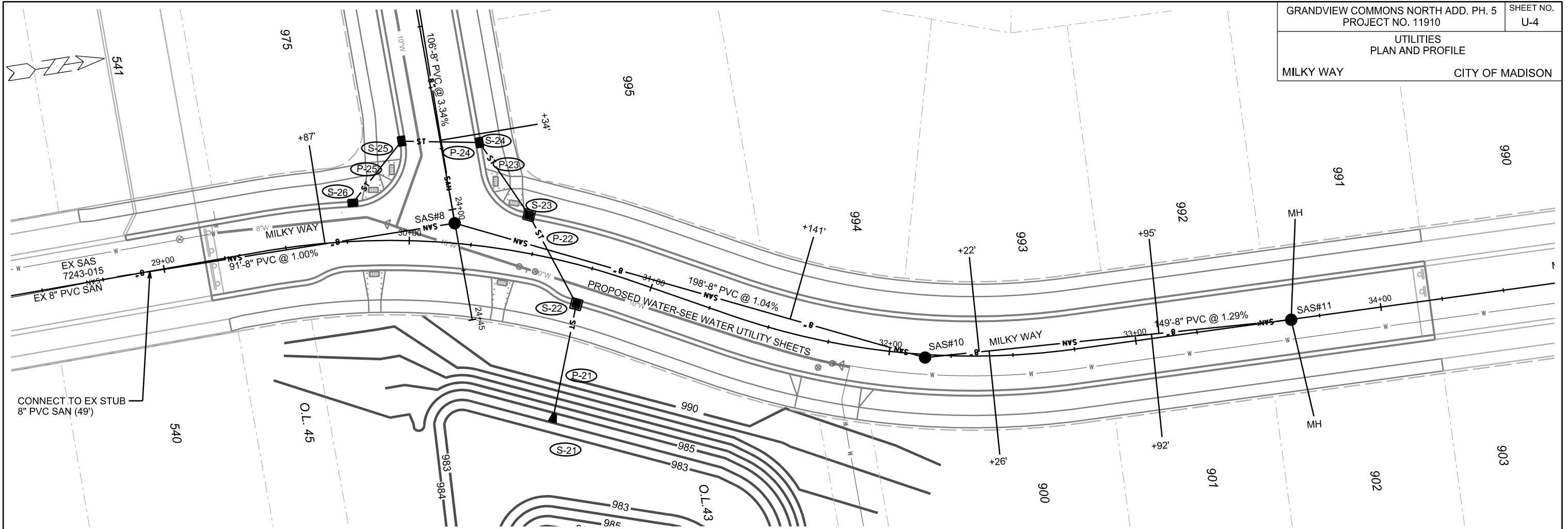


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

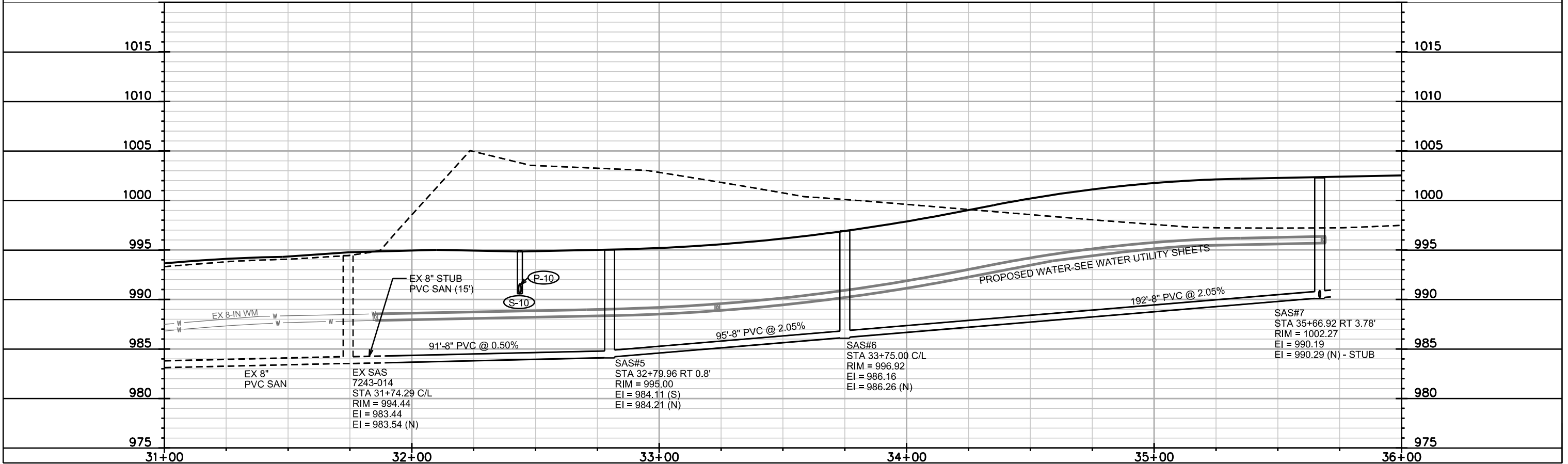
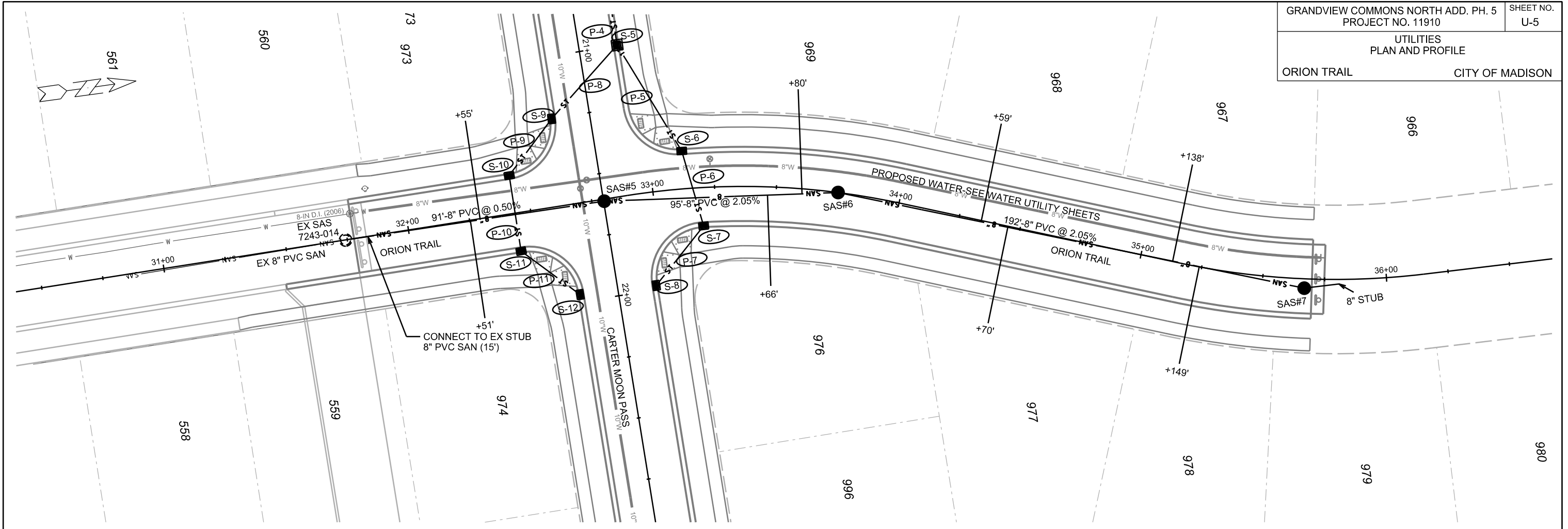


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PLOT SCALE:

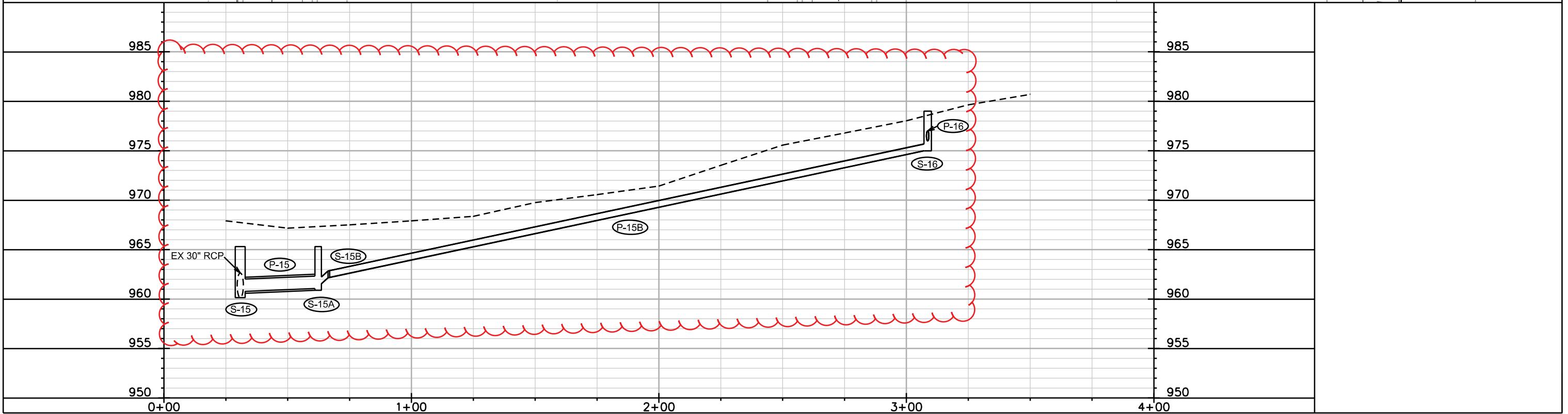
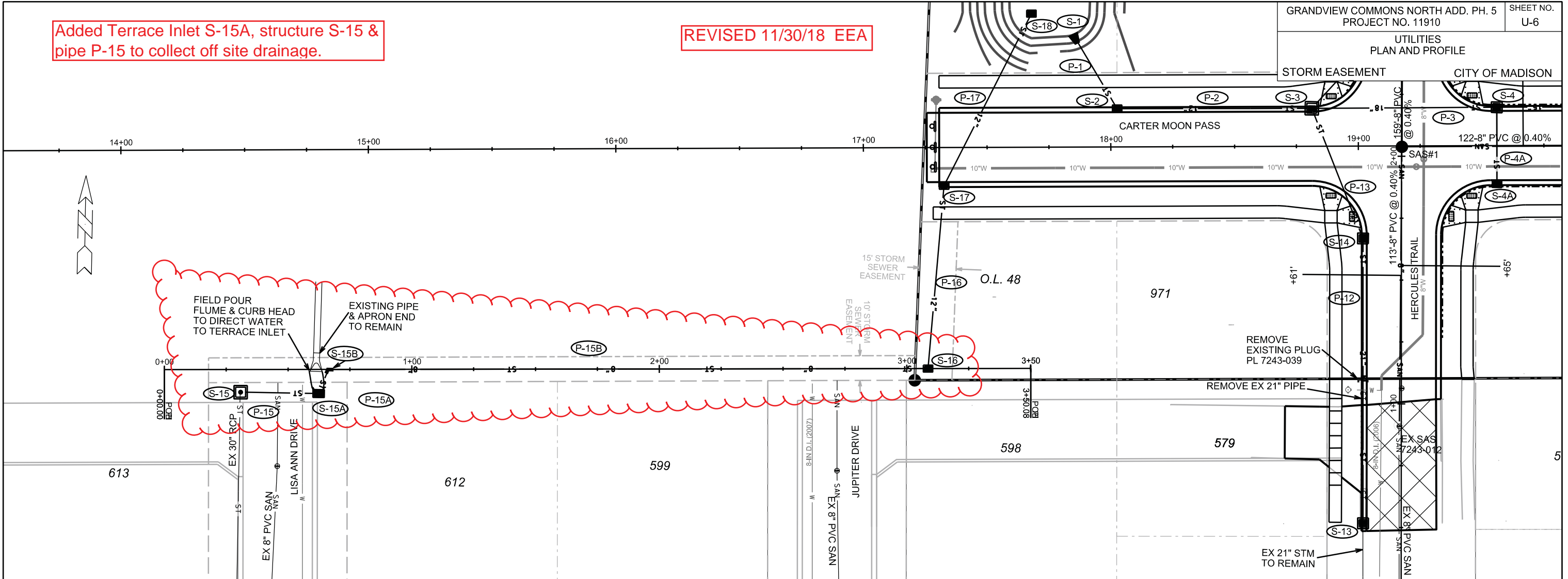
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

Added Terrace Inlet S-15A, structure S-15 & pipe P-15 to collect off site drainage.

REVISED 11/30/18 EEA



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
CARTER MOON PASS						
SAS#1	19+17.62	RT-0.40	991.32	980.86	10.46	-
SAS#4	20+40.02	RT-0.20	991.70	981.45	10.25	-
SAS#9	22+99.33	LT-1.40	990.61	980.14	10.47	-
HERCULES TRAIL						
SAS#3	3+62.56	LT-4.10	993.81	982.95	10.86	-
ORION TRAIL						
SAS#5	32+79.96	RT-0.80	995.00	984.11	10.89	-
SAS#6	33+75.00	CL	996.92	986.16	10.76	-
SAS#7	35+66.92	RT-3.78	1002.27	990.19	12.08	-
MILKY WAY						
SAS#8	30+17.68	LT-8.10	989.15	976.50	12.65	-
SAS#10	32+14.55	RT-1.20	990.69	978.65	12.04	-
SAS#11	33+63.41	C/L	991.77	980.67	11.10	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
CARTER MOON PASS								
SAS#1	SAS#4	980.96	981.45	122	0.40%	8"	SDR-35	-
SAS#8	SAS#9	976.60	980.14	106	3.34%	8"	SDR-35	-
HERCULES TRAIL								
EX 7243-012	SAS#1	980.41	980.86	113	0.40%	8"	SDR-35	-
SAS#1	SAS#3	980.96	982.95	159	1.25%	8"	SDR-35	-
ORION TRAIL								
EX 7243-014	SAS#5	983.58	984.11	106	0.50%	8"	SDR-35	-
SAS#5	SAS#6	984.21	986.16	95	2.05%	8"	SDR-35	-
SAS#6	SAS#7	986.26	990.19	192	2.05%	8"	SDR-35	-
MILKY WAY								
EX 7243-015	SAS#8	975.10	976.50	140	1.00%	8"	SDR-35	-
SAS#8	SAS#10	976.60	978.65	198	1.04%	8"	SDR-35	-
SAS#10	SAS#11	978.75	980.67	149	1.29%	8"	SDR-35	-

STORM SEWER SCHEDULE

* REVISED 11/30/18 EEA

GRANDVIEW COMMONS NORTH PHASE 5	SHEET NO.
PROJECT NO. 11910	U-8
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

PROPOSED STORM PIPES

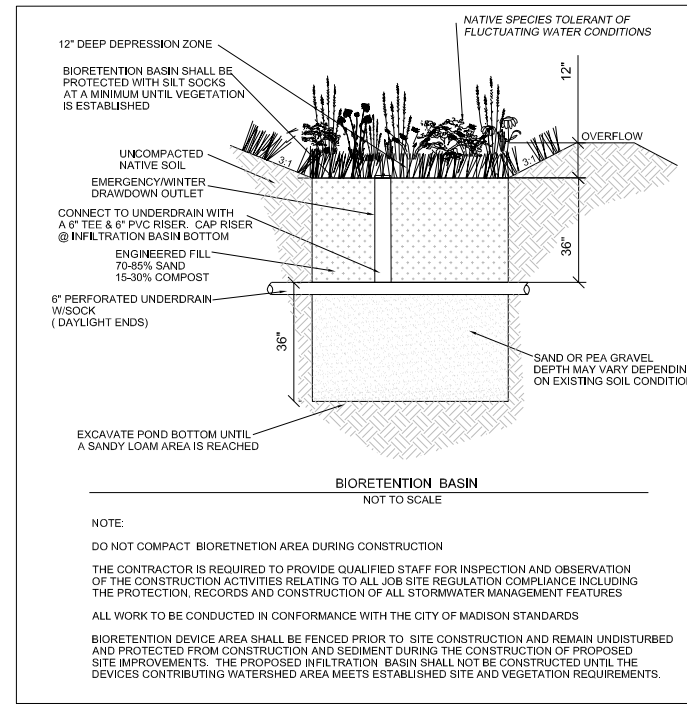
STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES	
CARTER MOON PASS								P-1	S-1	S-2	984.00	984.17	35	34	0.50%	12"	TYPE II	-	
S-1	17+84.78	LT-45.71	21" RCP APRON END	-	984.00	-	W/ GATE	P-2	S-2	S-3	984.17	984.54	79	75	0.50%	12"	TYPE II	-	
S-2	18+02.59	LT-15.50	H INLET	988.54	984.17	4.37	W/ R-3067-7004-V	P-3	S-3	S-4	984.54	986.09	75	71	2.18%	18"	TYPE I	NCM	
S-3	18+81.61	LT-15.50	3X3 SAS	991.62	984.54	7.08	W/ R-3067-7004-V	P-3A	S-3	S-3A	984.79	986.14	31	27	5.00%	15"	TYPE II	-	
S-4	19+56.00	LT-15.50	3X3 SAS	991.01	986.09	4.92	(2); LP; W/ R-3067-7004-VB	P-3B	S-3A	S-3B	986.39	987.89	32	30	5.00%	12"	TYPE I	-	
S-4A	19+56.00	RT-15.50	H INLET	991.01	986.74	4.27	(2); LP; W/ R-3067-7004-VB	P-4	S-4	S-5	986.34	989.47	130	127	2.46%	15"	TYPE II	-	
S-5	21+00.00	LT-15.50	3X3 SAS	993.67	989.47	4.20	W/ R-3067-7004-V	P-4A	S-4	S-4A	986.59	986.74	31	29	0.52%	12"	TYPE I	-	
S-8	21+98.29	LT-15.50	H INLET	994.59	991.55	3.04	W/ R-3067-7004-V	P-5	S-5	S-6	989.72	991.20	50	47	3.15%	12"	TYPE II	-	
S-9	21+24.32	RT-15.50	H INLET	994.30	990.22	4.08	W/ R-3067-7004-V	P-6	S-6	S-7	991.20	991.38	32	30	0.60%	12"	TYPE I	-	
S-12	21+97.00	RT-15.50	H INLET	994.35	991.35	3.00	W/ R-3067-7004-V	P-7	S-7	S-8	991.38	991.55	31	28	0.61%	12"	TYPE II	-	
* S-15	14+48.46	RT-88.73	H INLET	964.50	960.29	4.21	W/ R-1878-B7G, (1)	P-8	S-5	S-9	989.72	990.22	40	37	1.35%	12"	TYPE I	-	
S-16	17+25.86	RT-89.28	H INLET	979.00	976.00	3.00	W/ R-1878-B7G	P-9	S-9	S-10	990.22	990.57	29	26	1.35%	12"	TYPE II	-	
S-17	17+32.57	RT-15.50	H INLET	983.30	979.32	3.98	W/ R-3067-7004-V	P-10	S-10	S-11	990.57	990.96	31	29	1.34%	12"	TYPE I	-	
S-18	17+65.68	LT-45.29	H INLET	984.00	982.00	2.00	FP; W/ R-1878-B7L	P-11	S-11	S-12	990.96	991.35	30	27	1.44%	12"	TYPE II	-	
S-24	23+75.00	LT-15.50	H INLET	989.05	985.62	3.43	(2); LP; W/ R-3067-7004-VB	P-12	S-13	S-14	984.77	985.33	115	112	0.50%	21"	TYPE II	-	
S-25	23+70.04	RT-15.50	H INLET	989.07	985.77	3.30	FP; W/ R-3067-7004-V	P-13	S-14	S-3	985.33	985.89	56	53	1.06%	21"	TYPE II	-	
HERCULES TRAIL								* P-15	S-15	S-15A	960.77	961.07	32	29	1.03%	15"	TYPE I	-	
S-3A	2+42.00	LT-15.50	H INLET	991.79	986.14	5.65	(2); LP; W/ R-3067-7004-VB	* P-15A	S-15A	S-15B	961.65	962.16	11	9	5.67%	8"	PVC	-	
S-3B	2+50.00	RT-15.50	H INLET	991.30	987.89	3.41	W/ R-3067-7004-V	* P-15B	S-15B	S-16	962.16	975.00	242	241	5.33%	8"	PVC	-	
S-13	0+51.71	LT-15.50	3X3 SAS	990.20	984.77	5.43	FP; W/ R-3067-7004-V	P-16	S-16	S-17	976.00	979.32	74	72	4.61%	12"	TYPE I	NCM	
S-14	1+66.80	LT-15.50	3X3 SAS	991.80	985.33	6.47	W/ R-3067-7004-V	P-17	S-17	S-18	979.32	982.00	78	76	3.53%	12"	TYPE I	-	
ORION TRAIL								P-21	S-21	S-22	984.00	985.02	49	47	2.17%	18"	TYPE II	-	
S-6	33+12.90	LT-15.50	H INLET	995.46	991.20	4.26	W/ R-3067-7004-V	P-22	S-22	S-23	985.02	985.21	41	37	0.51%	18"	TYPE II	-	
S-7	33+19.53	RT-15.50	H INLET	995.57	991.38	4.19	W/ R-3067-7004-V	P-23	S-23	S-24	985.46	985.62	36	32	0.50%	15"	TYPE II	-	
S-10	32+43.67	LT-15.50	H INLET	994.94	990.57	4.37	W/ R-3067-7004-V	P-24	S-14	S-25	985.62	985.77	32	29	0.52%	15"	TYPE II	-	
S-11	32+43.88	RT-15.50	H INLET	994.94	990.96	3.98	W/ R-3067-7004-V	P-25	S-25	S-26	986.02	986.17	32	29	0.52%	12"	TYPE II	-	
MILKY WAY								S-21	30+76.60	RT-64.36	18" RCP APRON END	-	984.00	-	W/ GATE				
S-22	30+72.60	RT-15.60	3X3 SAS	989.79	985.02	4.77	W/ R-3067-7004-V	S-26	29+77.93	LT-15.50	H INLET	988.67	986.17	2.50	FP; W/ R-3067-7004-V				
S-23	30+46.01	LT-15.50	3X3 SAS	989.60	985.21	4.39	W/ R-3067-7004-V												
STORM EASEMENT								* S-15	0+30.82	RT-9.15	4X4 SAS	965.30	960.14	5.16	W/ R-1550; (1)				
* S-15A	0+62.31	RT-9.74	TERRACE INLET TYPE III	965.30	961.07	4.23	FP; PER SDD 5.7.12B												
* S-15B	0+70.65	CL	22.5 BEND	-	962.16	-	-												

SPECIFIC NOTES

- (1) CONNECT TO EXISTING 30" PIPE
- (2) INSTALL LOW POINT PVC DRAIN PER S.D.D. 5.7.7A

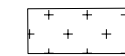
STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- 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.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- 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 ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

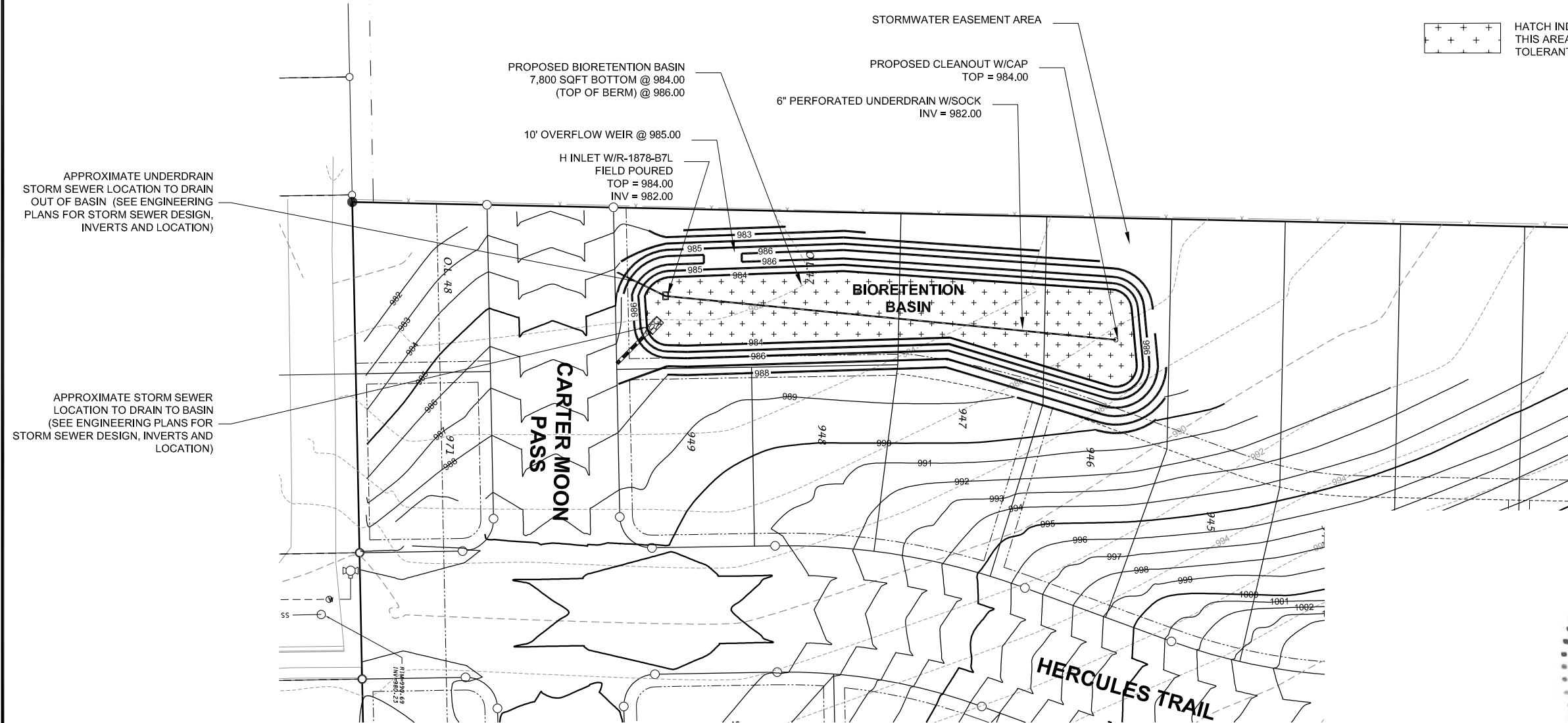


GENERAL NOTES:

1. ALL SITE WORK AND MATERIALS SHALL BE PER THE CITY OF MADISON STANDARD SPECIFICATIONS.
2. EROSION CONTROL MEASURES SHALL BE PLACED PER THE APPROVED EROSION CONTROL PLAN.
3. LENGTHS OF CULVERTS INCLUDE ENDWALLS.
4. CULVERT LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION TO ENSURE THAT THEY ARE LONG ENOUGH TO CONFORM TO TYPICAL CROSS SECTION.
5. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL, FERTILIZER, SEED AND MULCH. SEED MIXTURE SHALL BE WISCONSIN DOT SEED MIX #40 OR EQUIVALENT APPLIED AT A RATE OF 5 POUNDS PER 100 SQFT ON ALL DISTURBED AREAS. ANNUAL RYEGRASS AT A RATE OF 1 1/2 POUNDS PER 1000 SQFT SHALL BE ADDED TO THE MIXTURE. FERTILIZER SHALL BE PLACED PER A SOIL TEST. THE BIoretention AREA SHALL BE PLANTED WITH A NATIVE SPECIES TOLERANT OF FLUCTUATING WATER CONDITIONS.
6. ENGINEERED SOIL IN BIoretention BASIN SHALL BE 70-85% SAND & 15-30% COMPOST
7. SEE APPROVED ENGINEERING PLANS FOR SITE STORM SEWER LOCATION, TYPE, LENGTHS, AND SIZES
8. A CERTIFIED SOIL INSPECTOR SHALL CERTIFY THAT THE PROPOSED SOILS TO BE USED FOR THE INFILTRATION BASIN BACKFILL LAYER HAS THE INFILTRATION RATE REQUIRED PRIOR TO BACKFILLING. CLEAN SAND OR CLEAR STONE MAY BE USED AS AN ALTERNATIVE BACKFILL MATERIAL.



HATCH INDICATES BIoretention BASIN BOTTOM AREA. THIS AREA SHALL BE SEEDED WITH A NATIVE SEED MIX TOLERANT OF FLUCTUATING WATER CONDITIONS.



APPROXIMATE UNDERDRAIN STORM SEWER LOCATION TO DRAIN OUT OF BASIN (SEE ENGINEERING PLANS FOR STORM SEWER DESIGN, INVERTS AND LOCATION)

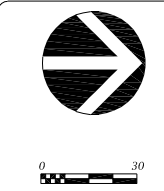
APPROXIMATE STORM SEWER LOCATION TO DRAIN TO BASIN (SEE ENGINEERING PLANS FOR STORM SEWER DESIGN, INVERTS AND LOCATION)



PHASE 5 - OL 47 BIoretention BASIN

GRANDVIEW COMMONS NORTH - PHASE 5

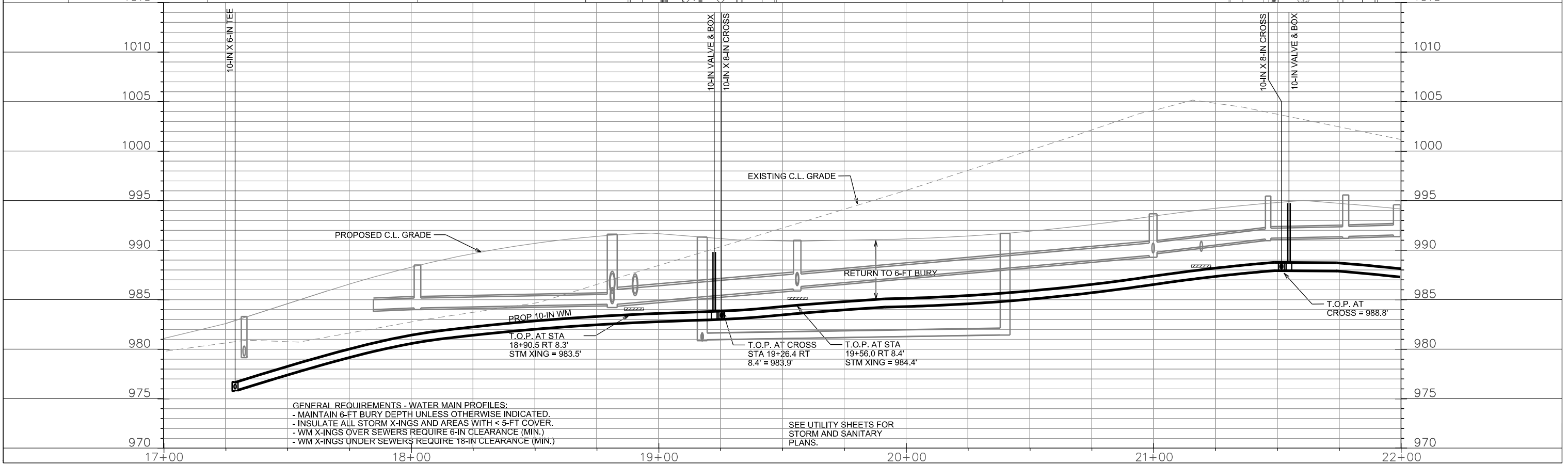
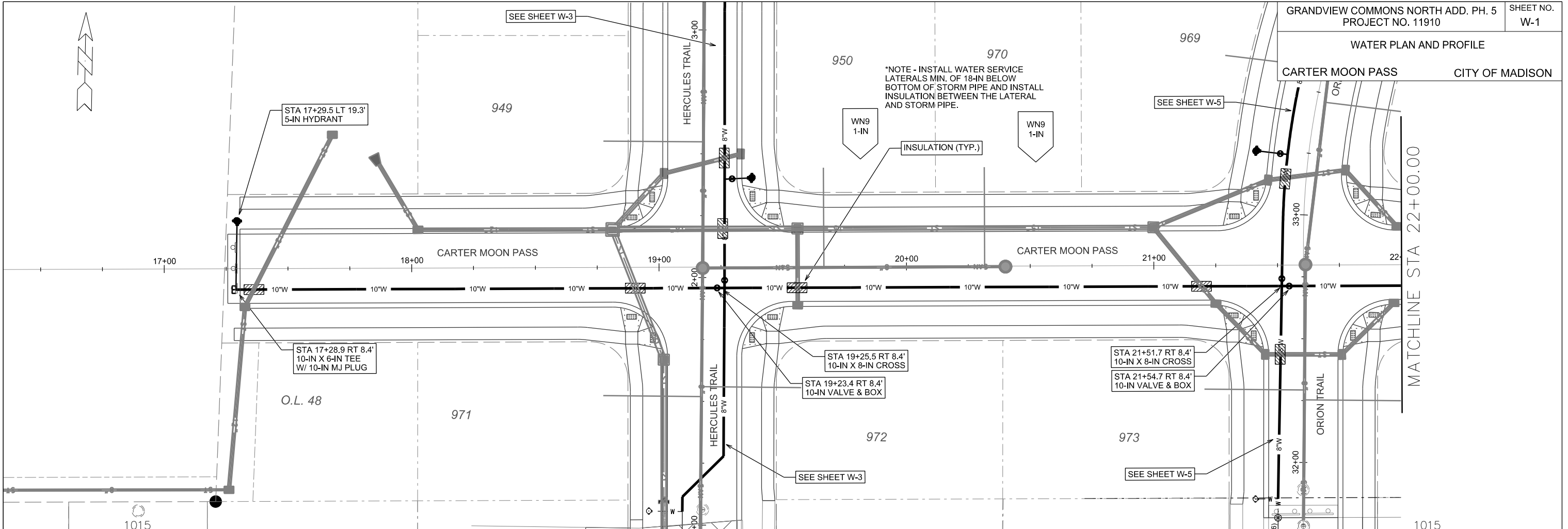
CITY OF MADISON, DANE COUNTY, WISCONSIN



DATE: 09/17/18
 REVISED:
 DRAWN BY: GVP
 FN: 17-05-148
 Sheet Number: 1

DONOFRIO KOTTKE AND ASSOCIATES, INC.
 7530 Westward Way, Madison, WI 53717
 Phone: 608.833.7530 • Fax: 608.833.1089
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

WATER PLAN AND PROFILE
CITY OF MADISON



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.)

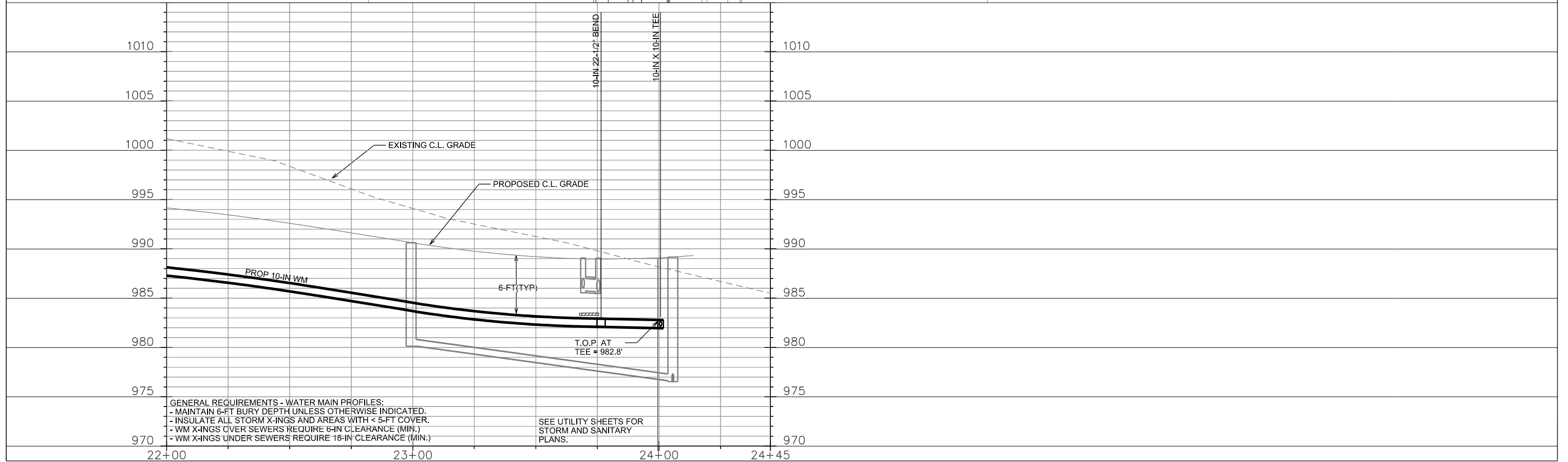
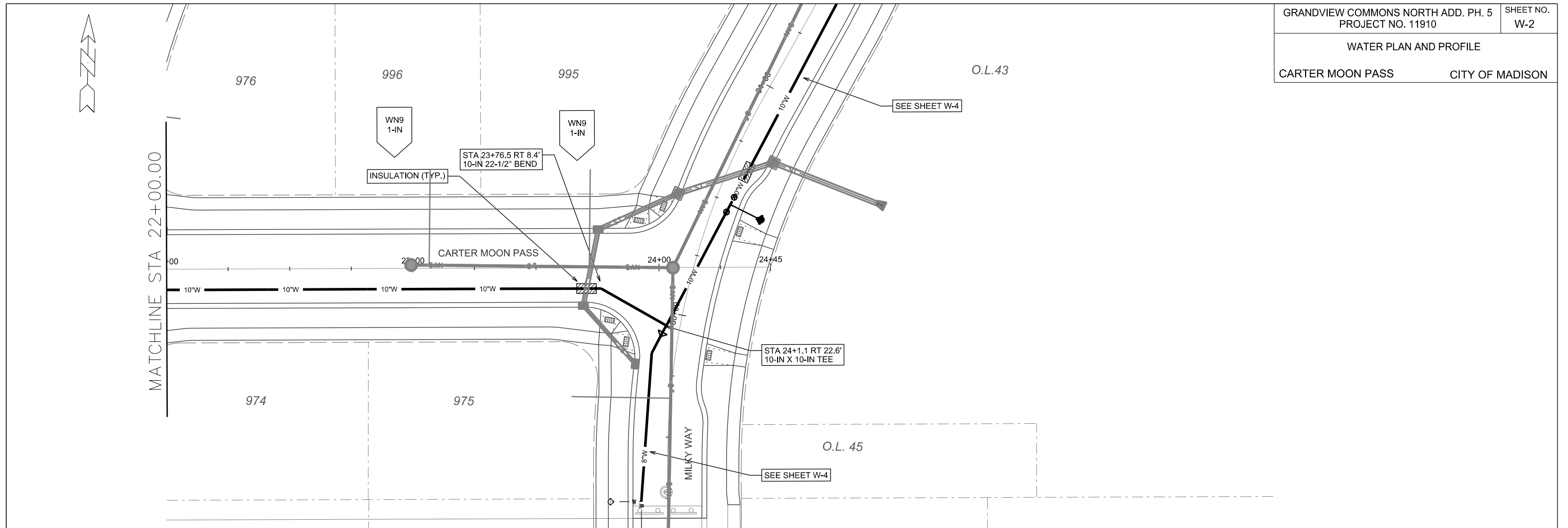
SEE UTILITY SHEETS FOR STORM AND SANITARY PLANS.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



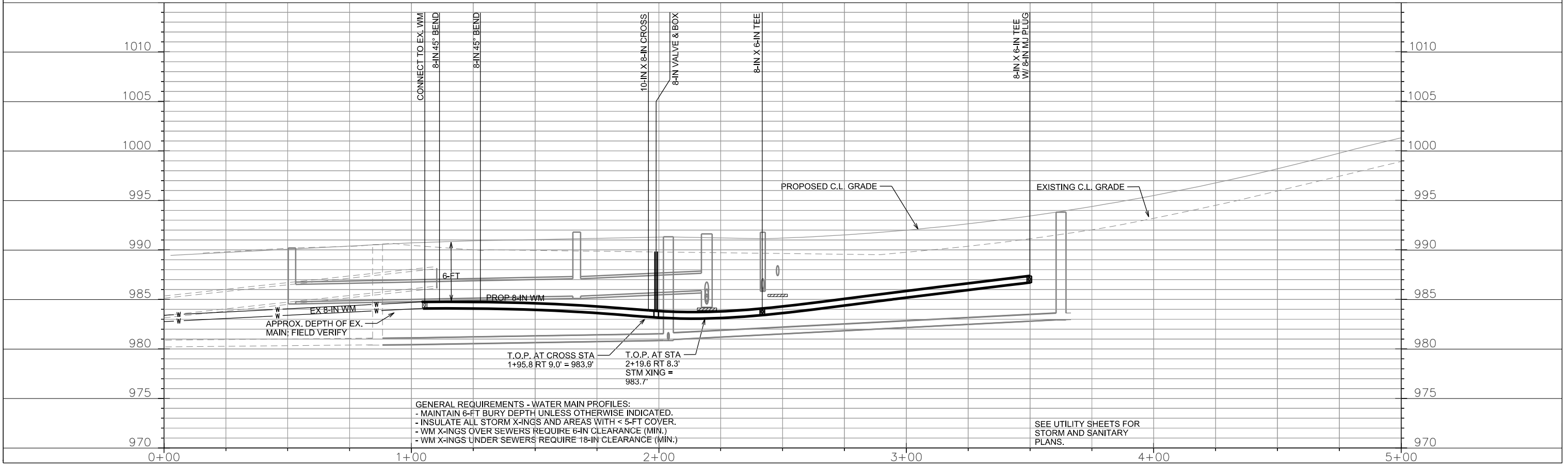
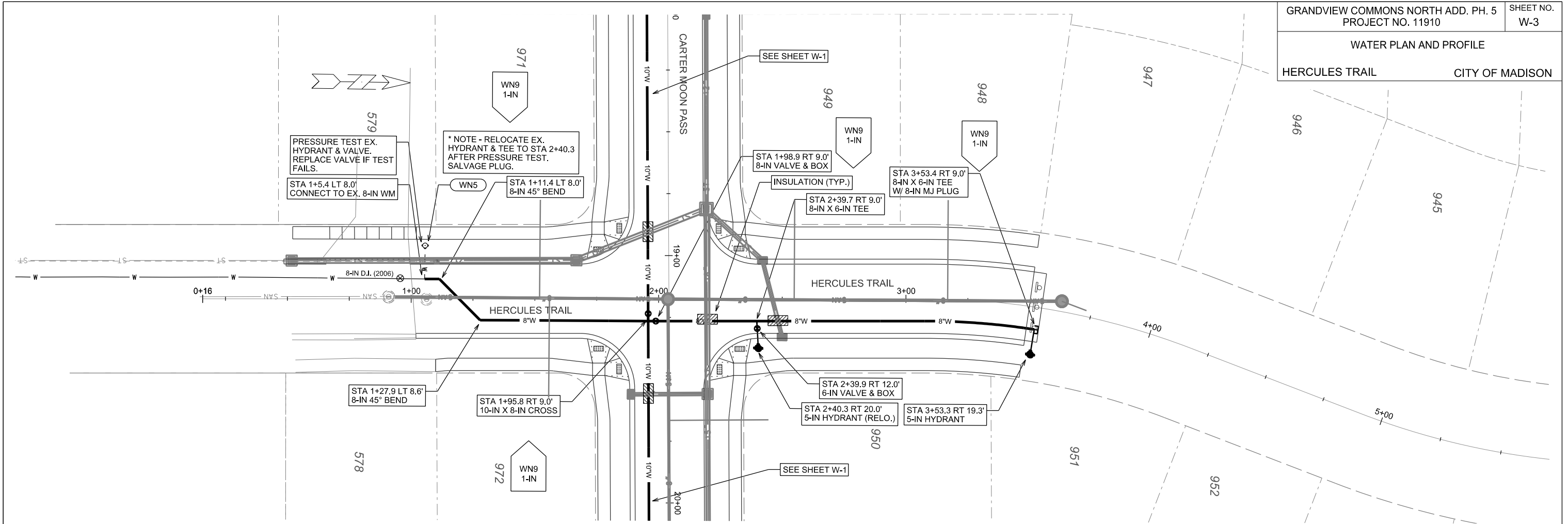
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
HERCULES TRAIL CITY OF MADISON

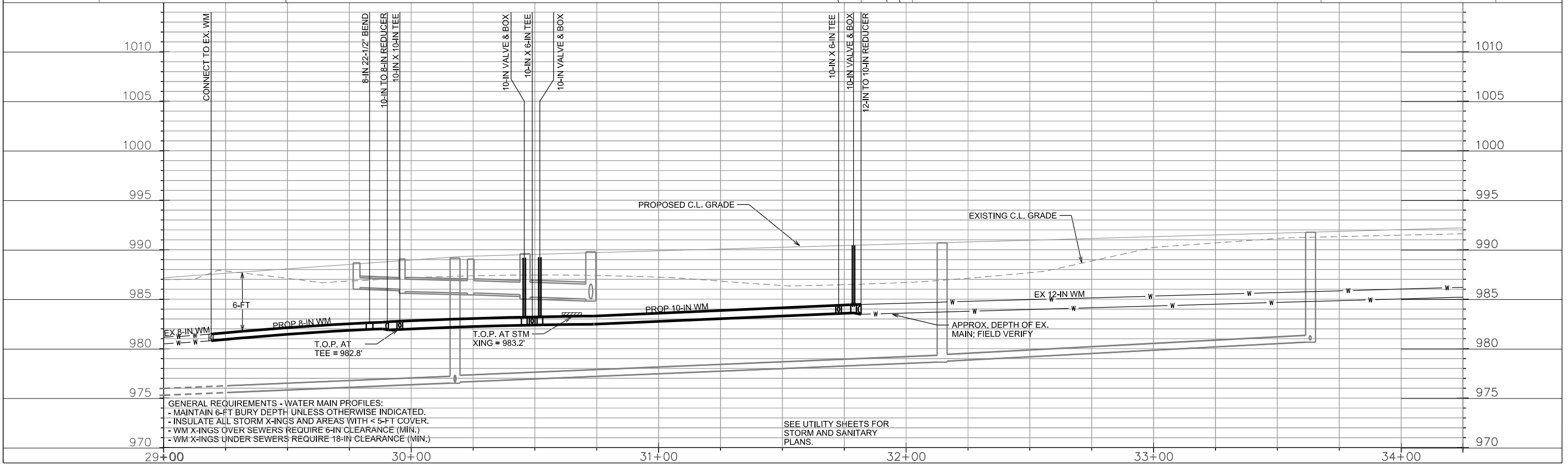
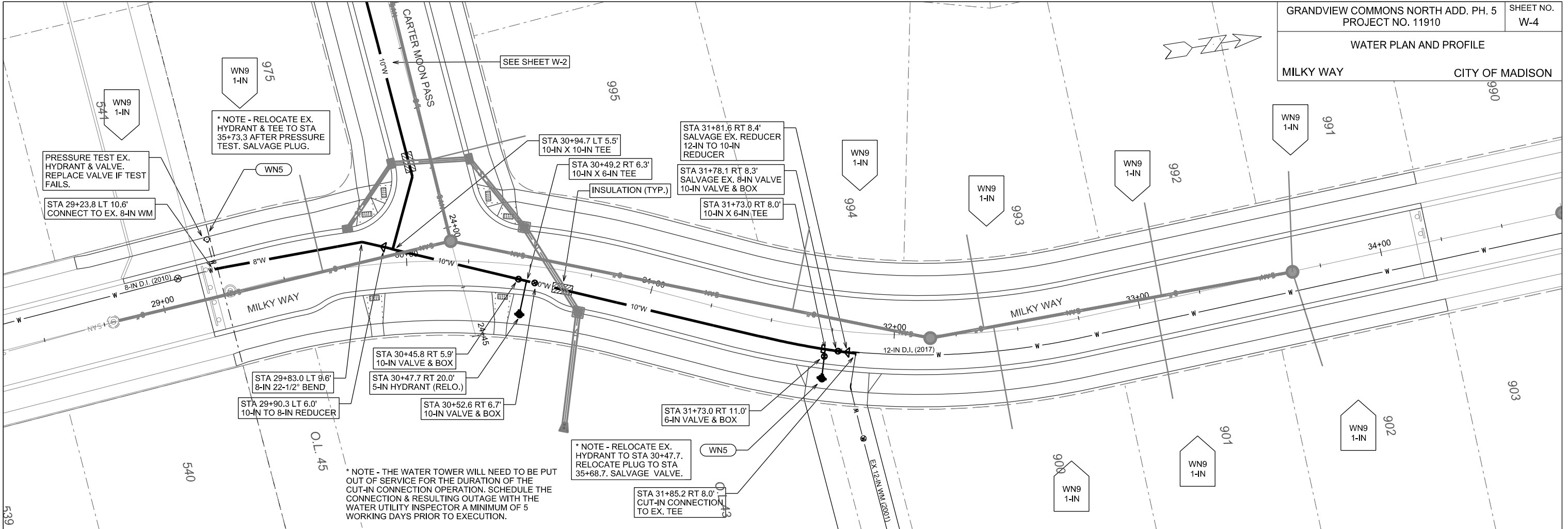


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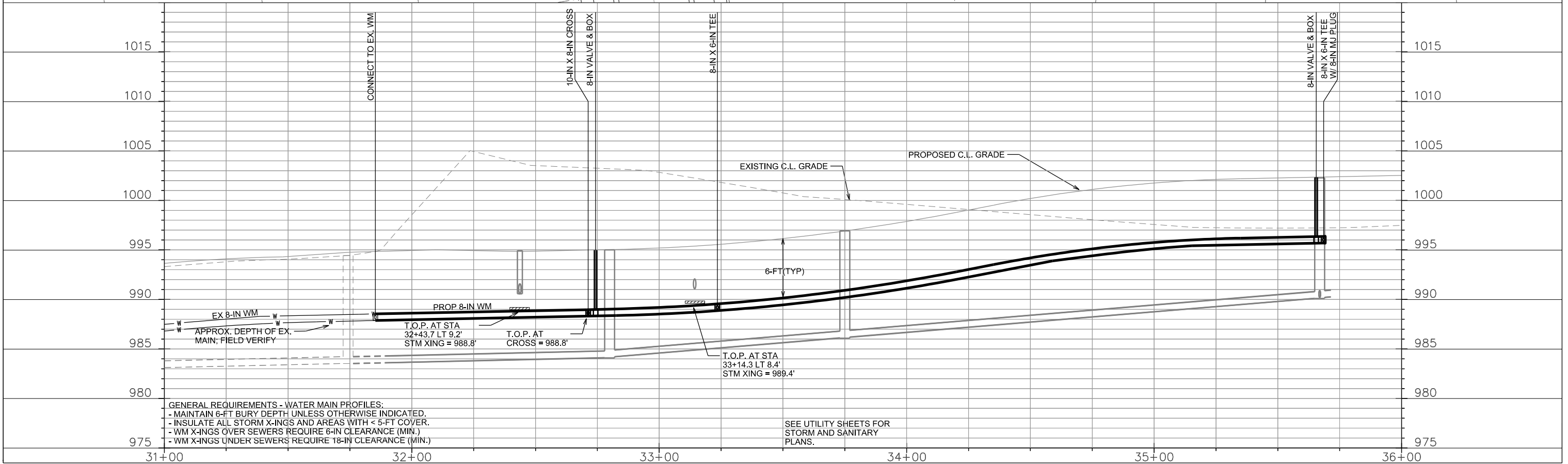
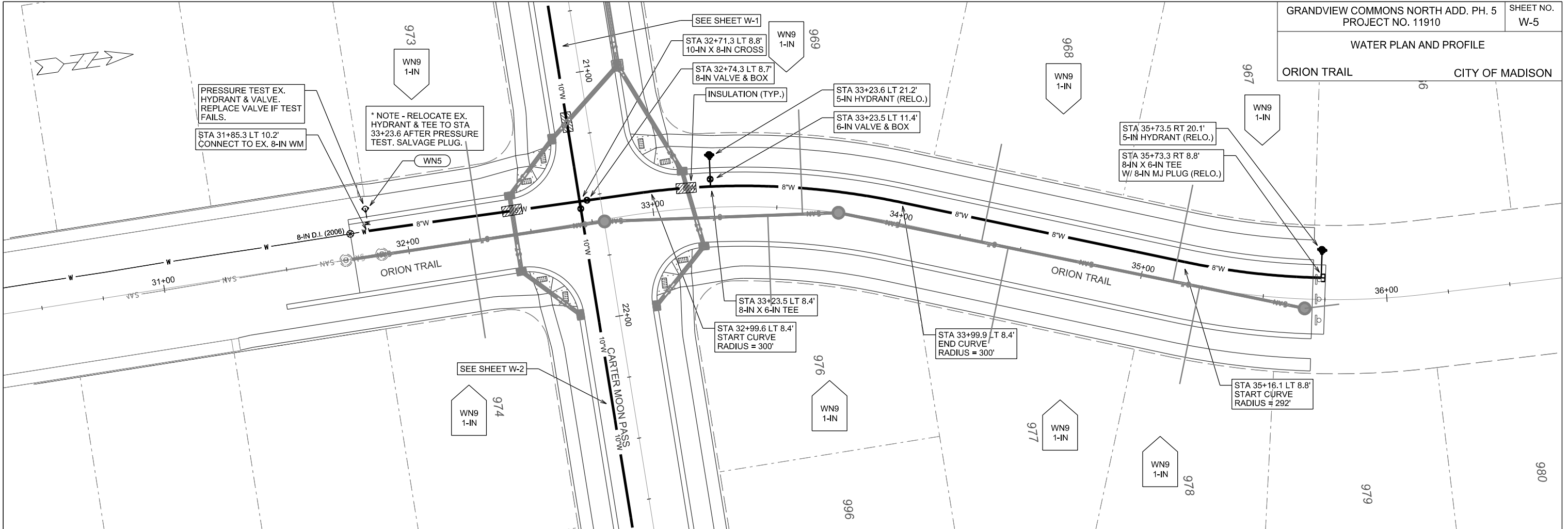


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REV. DATE:

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GENERAL REQUIREMENTS - WATER MAIN PROFILES:
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 - 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.)

SEE UTILITY SHEETS FOR STORM AND SANITARY PLANS.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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 EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|---|-----------------------------------|
| 100-FT - 6-IN PIPE | 1 - 8-IN 22-1/2° BEND |
| 720-FT - 8-IN PIPE | 1 - 10-IN 22-1/2° BEND |
| 880-FT - 10-IN PIPE | 2 - 8-IN 45° BEND |
| 2 - 6-IN VALVE & BOX | 1 - 10-IN TO 8-IN REDUCER |
| 5 - 8-IN VALVE & BOX (INCLUDES 3 AS NEEDED) | 1 - 12-IN TO 10-IN REDUCER |
| 5 - 10-IN VALVE & BOX | 1 - 8-IN MJ PLUG |
| | 1 - 10-IN MJ PLUG |
| 4 - 8-IN X 6-IN TEE | 2 - 5-IN HYDRANT |
| 2 - 10-IN X 6-IN TEE | 80-FT - 2-IN STYROFOAM INSULATION |
| 1 - 10-IN X 10-IN TEE | 1920-FT - POLY WRAP |
| 2 - 10-IN X 8-IN CROSS | 1-IN COPPER (AS REQ'D) |

ESTIMATE OF MATERIALS SALVAGED:

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

- 2 - 8-IN MJ PLUG
- 1 - 10-IN MJ PLUG
- 1 - 12-IN TO 8-IN REDUCER

ESTIMATE OF MATERIALS REUSED:

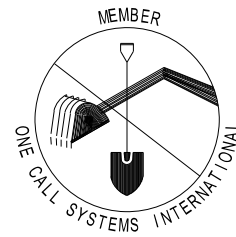
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- 4 - 8-IN X 10-IN TEE
- 1 - 8-IN MJ PLUG
- 4 - 5-IN HYDRANT

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

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

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

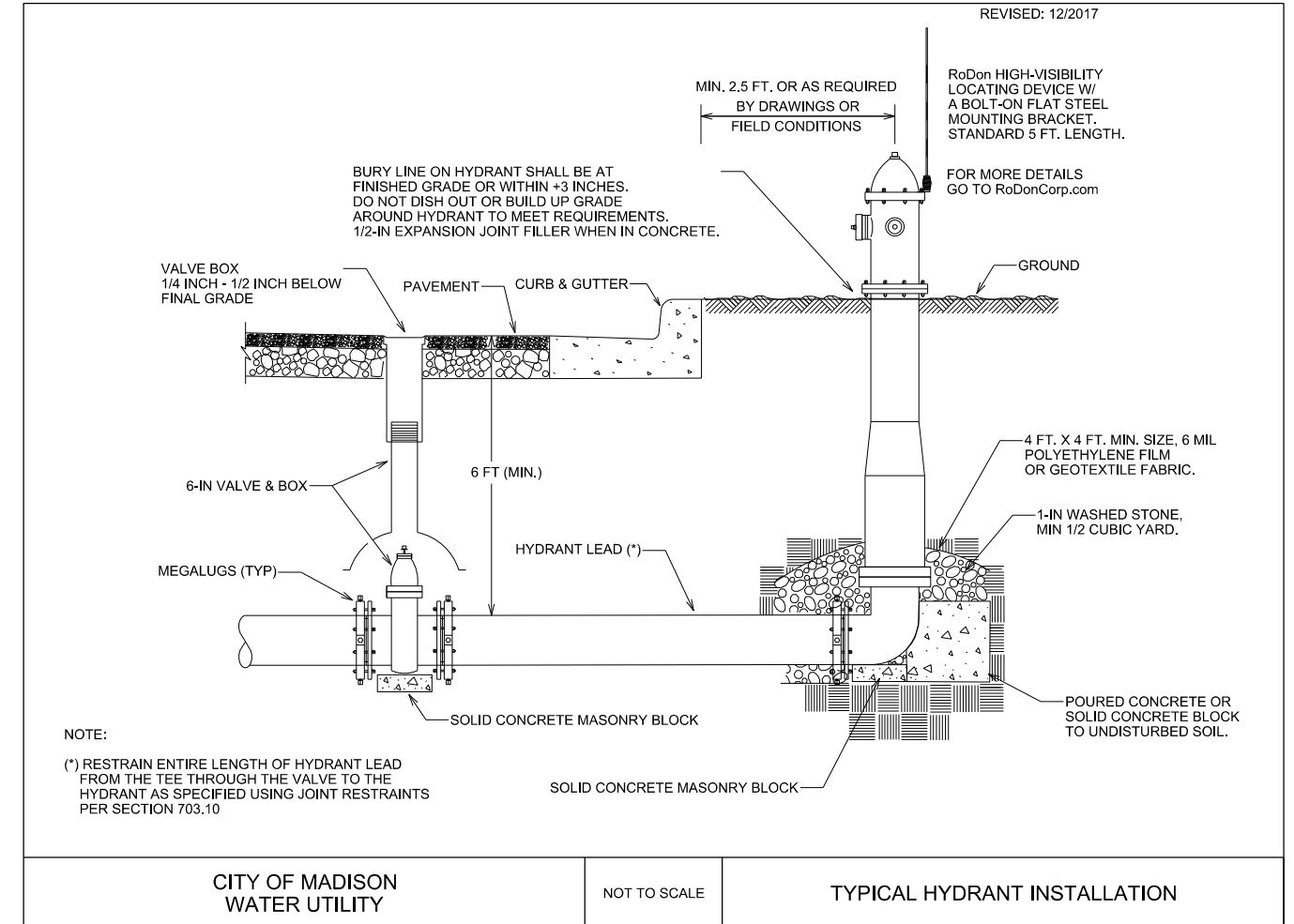


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2017



NOTE:
(*) 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

City of Madison Standard Specifications for Public Works Construction

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION