CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

Madison, Wisconsin

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: April 19, 2021

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

FN- Greg Fries Jul 1, 2022

City Engineer Date

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

CITY PROJECT NO. 13355
CONTRACT NO. 9003

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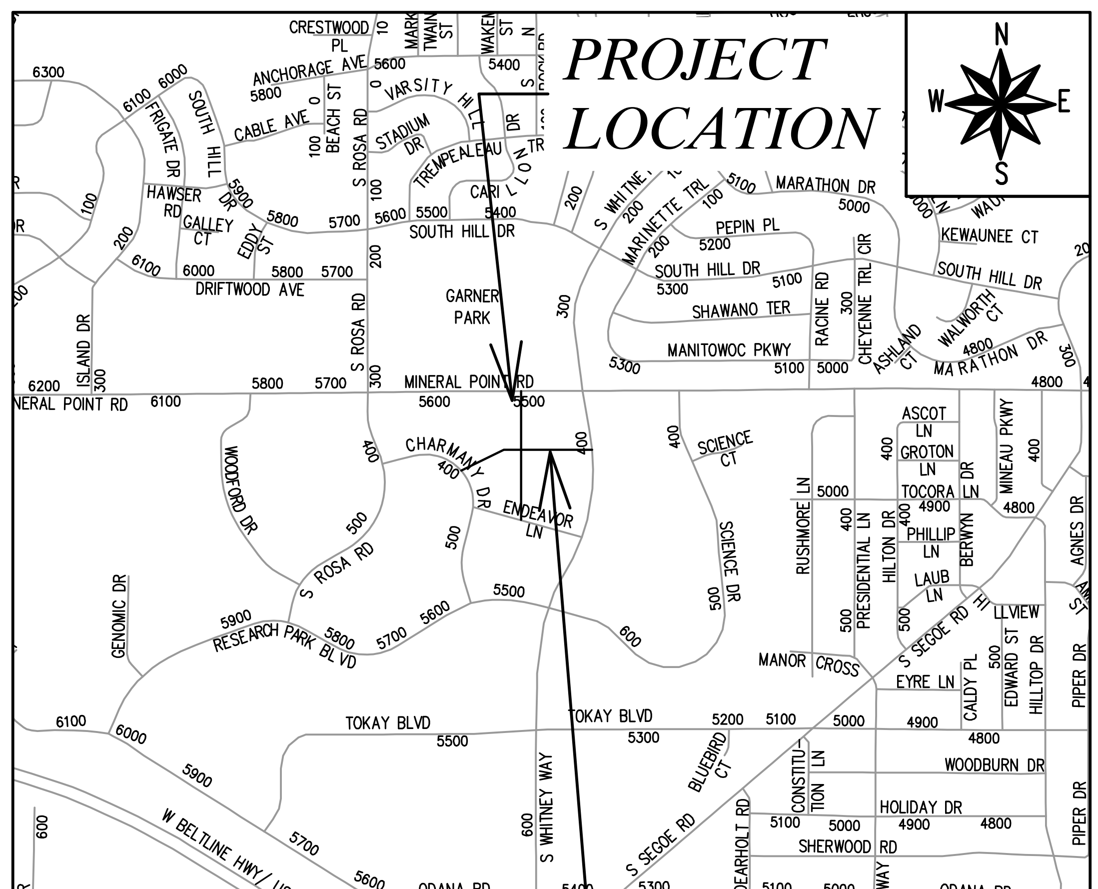
CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SN
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 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%.



ELEMENT COLLECTIVE STORMWATER MANAGEMENT PLANS (SEE PROJECT NO. 13520, CONTRACT NO. 9036)

PAVEMENT MARKING DESIGNED BY:
WISCONSIN SEAN D MALLOY E-48326 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

STREET DESIGNED BY:
WISCONSIN ANDREW J. ZWIEG E-41753 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

ELECTRICAL DESIGNED BY:
WISCONSIN GRETCHEN M AVILES PINEIRO E-47473 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

SANITARY SEWER DESIGNED BY:
WISCONSIN MARK D. MODER E-33979 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

WATER DESIGNED BY:
WISCONSIN PETER E. HOLMGREN E-42156 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

STORM SEWER DESIGNED BY:
WISCONSIN JANET SCHMIDT E-34681 MADISON WI PROFESSIONAL ENGINEER
Jul 1, 2022

PLOT SCALE: 1 IN:1 FT_XREF PLOT NAME: ---- REV. DATE: 5/25/2022 5:31 PM

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, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

DEVELOPER MUST SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 14 DAYS PRIOR TO THE START OF WORK. WORK SHALL NOT PROCEED UNTIL AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.

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

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

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS RIGHT-OF-WAY PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

ALL PROPOSED DRIVEWAY APRONS SHALL BE CONCRETE DRIVEWAY 7-INCH (CS-7).

ALL BUS PADS, SIDEWALK ADJACENT DRIVEWAYS, & CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH (CS-7).

ALL 6-FOOT SIDEWALK & CONCRETE TERRACE SHALL BE CONCRETE SIDEWALK 5-INCH (CS-5).

ALL 12-FOOT SIDEWALK SHALL BE CONCRETE SIDEWALK 7-INCH (CS-7) & CONTROL JOINTS NEED TO BE SAWCUT AND NOT TOOLED.

WHERE CURB & GUTTER AND CONCRETE TERRACE OR CONCRETE DRIVEWAYS JOIN, AN EXPANSION JOINT 1-INCH IN WIDTH MUST BE CONSTRUCTED BETWEEN THE CURB AND CONCRETE.

WHERE CONCRETE SIDEWALK AND CONCRETE TERRACE OR CONCRETE DRIVEWAYS JOIN, AN EXPANSION JOINT 1/2-INCH IN WIDTH MUST BE CONSTRUCTED BETWEEN THE SIDEWALK AND CONCRETE.

3-INCHES OF COMPACTED CRUSHED AGGREGATE BASE COURSE SHALL BE PLACED UNDER SIDEWALK WHEN THE CENTERLINE GRADE OF THE STREET EXCEEDS 5%.

ALL PAVEMENT IN THE ELEMENT WAY AND CATALYST WAY RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT OR 9" CONCRETE PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE WHITNEY WAY AND MINERAL POINT ROAD RIGHTS-OF-WAY SHALL BE TYPE C PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT ON ENDEAVOR LANE RIGHTS-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADE OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL TYPICALLY BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.04. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT 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.

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.

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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GENERAL NOTES 13355
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI
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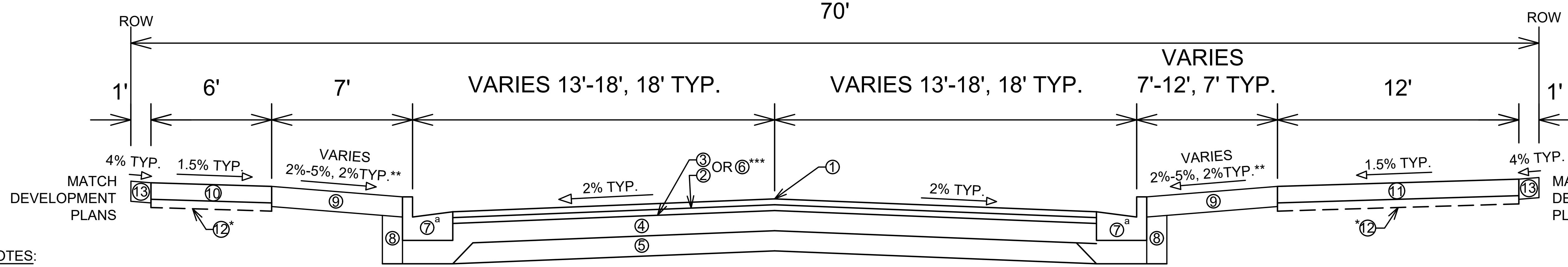
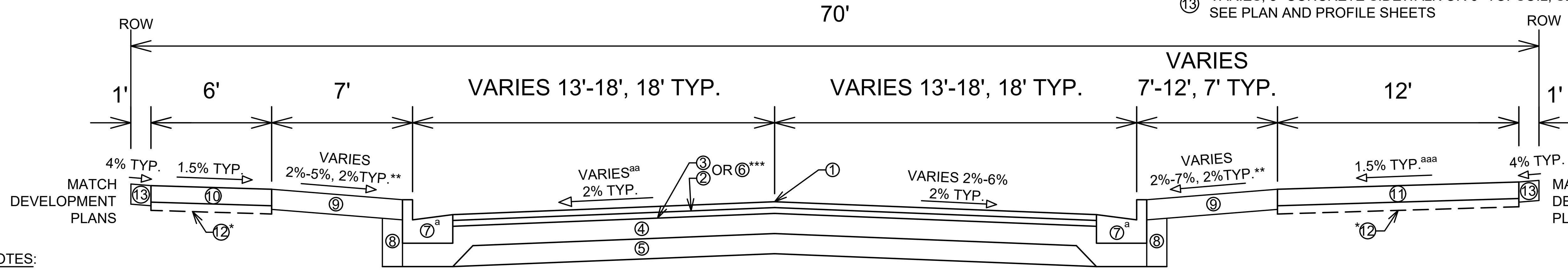


SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE
- SEE X-SHEETS FOR CROSS SLOPES, EDGE OF PAVEMENT ELEVATIONS, & TOP OF CURB ELEVATIONS
- THE DEVELOPER IS RESPONSIBLE FOR ALL ASPHALT STREET SURFACE PAVING PER CONTRACT 9037
- *3" OF COMPACTED CRUSHED AGGREGATE BASE COURSE SHALL BE PLACED UNDER SIDEWALK WHEN THE CENTERLINE GRADE OF THE STREET EXCEED 5%
- **2% IN CONCRETE AND PAVER AREAS OF THE TERRACE
- ***9" CONCRETE PAVEMENT OVER 6.5" GRADATION 2 CRUSHED AGGREGATE BASE COURSE STA 105+15.51 TO STA 108+65.62
- [a]MOUNTABLE CONCRETE CURB & GUTTER TYPE 'A' STA 107+57.62 TO STA 108+65.62

TYPICAL SECTION
ELEMENT WAY
STA 101+28.92 TO STA 111+82.63

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. 9" CONCRETE PAVEMENT, SEE PLAN AND PROFILE SHEETS
7. CONCRETE CURB & GUTTER TYPE 'A' OR MOUNTABLE CONCRETE CURB & GUTTER TYPE 'A', SEE PLAN AND PROFILE SHEETS
8. FILL INCIDENTAL TO CURB & GUTTER INSTALLATION
9. RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
10. 5" CONCRETE SIDEWALK
11. 7" CONCRETE SIDEWALK
12. 2" SELECT FILL (TO BE USED WHEN SIDEWALK IS IN A FILL CONDITION)
13. VARIES, 5" CONCRETE SIDEWALK OR 6" TOPSOIL, SEED, AND EROSION MATTING, SEE PLAN AND PROFILE SHEETS



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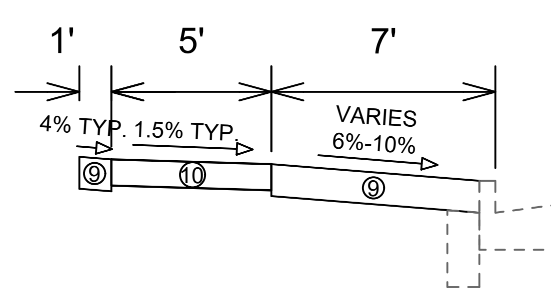
- **2% IN CONCRETE AND PAVER AREAS OF THE TERRACE
- ***9" CONCRETE PAVEMENT OVER 6.5" GRADATION 2 CRUSHED AGGREGATE BASE COURSE STA 208+25.79 TO STA 211+39.72
- [a]MOUNTABLE CONCRETE CURB AND GUTTER TYPE 'A' STA 208+25.79 TO STA 209+33.79
- [aa]SUPER-ELEVATED LANE STA 209+75.00 TO STA 211+39.72
- [aaa]1% CROSS SLOPE FROM STA 210+81.56 TO STA 211+23.35 RT

TYPICAL SECTION
CATALYST WAY
STA 201+95.07 TO STA 211+39.72

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. 9" CONCRETE PAVEMENT, SEE PLAN AND PROFILE SHEETS
7. CONCRETE CURB & GUTTER TYPE 'A' OR MOUNTABLE CONCRETE CURB & GUTTER TYPE 'A, SEE PLAN AND PROFILE SHEETS
8. FILL INCIDENTAL TO CURB & GUTTER INSTALLATION
9. RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
10. 5" CONCRETE SIDEWALK
11. 7" CONCRETE SIDEWALK
12. * 2" SELECT FILL (TO BE USED WHEN SIDEWALK IS IN A FILL CONDITION)
13. ** VARIES, 5" CONCRETE SIDEWALK OR 6" TOPSOIL, SEED, AND EROSION MATTING, SEE PLAN AND PROFILE SHEETS



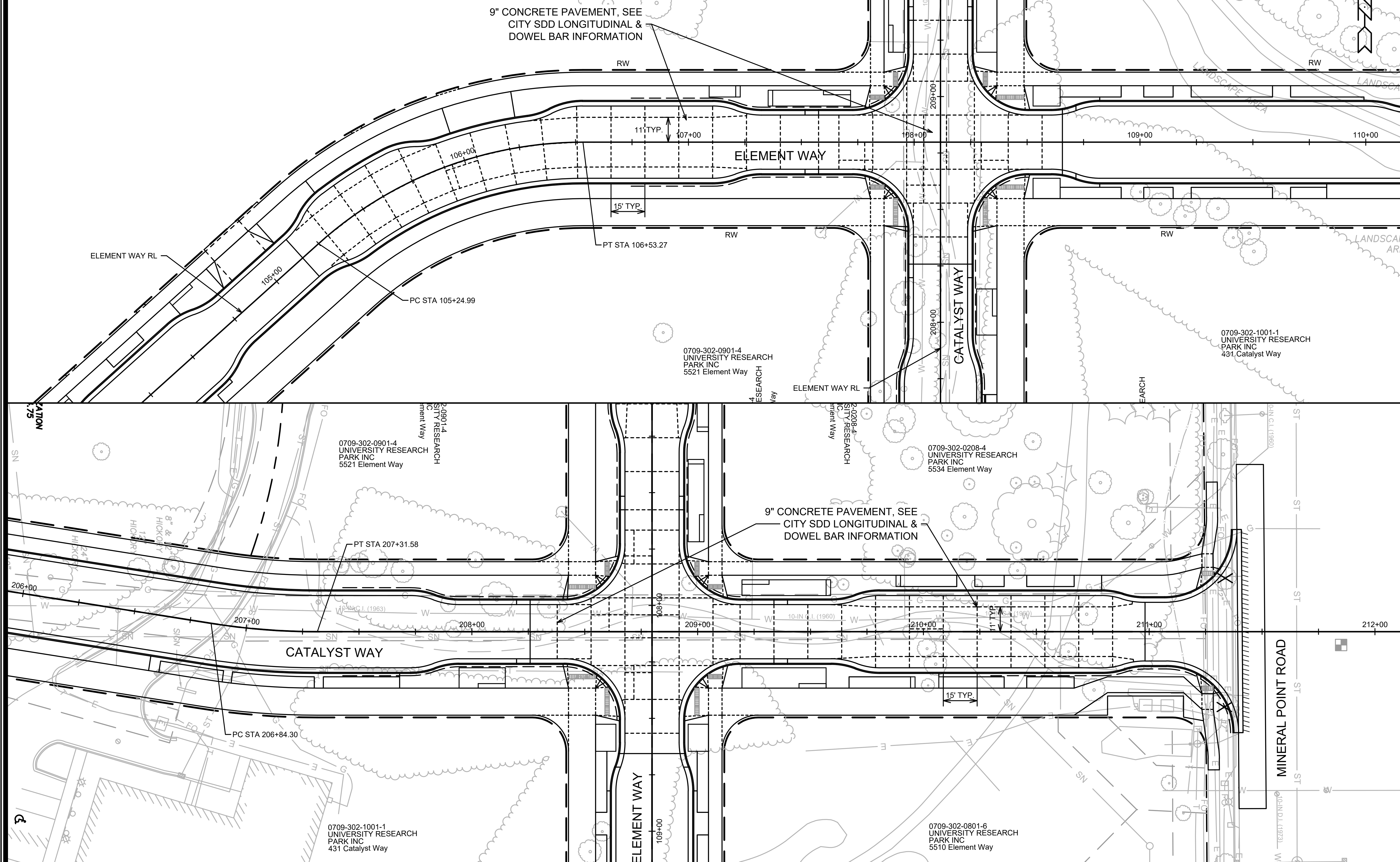
TYPICAL SECTION
WHITNEY WAY SIDEWALK
STA 300+55.65 TO STA 302+55.90

9. RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED, AND EROSION MATTING
10. 5" CONCRETE SIDEWALK

SPECIAL NOTES:

- TYPICAL SECTION NOT TO SCALE
- SEE X-SHEETS FOR SIDEWALK ELEVATIONS

NOTES
- EPOXY COATED TIE BARS SHALL BE INSTALLED TO A TIGHT DRIVEN FIT AND SECURED WITH AN APPROVED EPOXY GROUT
- SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT



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CONCRETE JOINTING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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MADISON, WI

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CITY OF MADISON WISCONSIN

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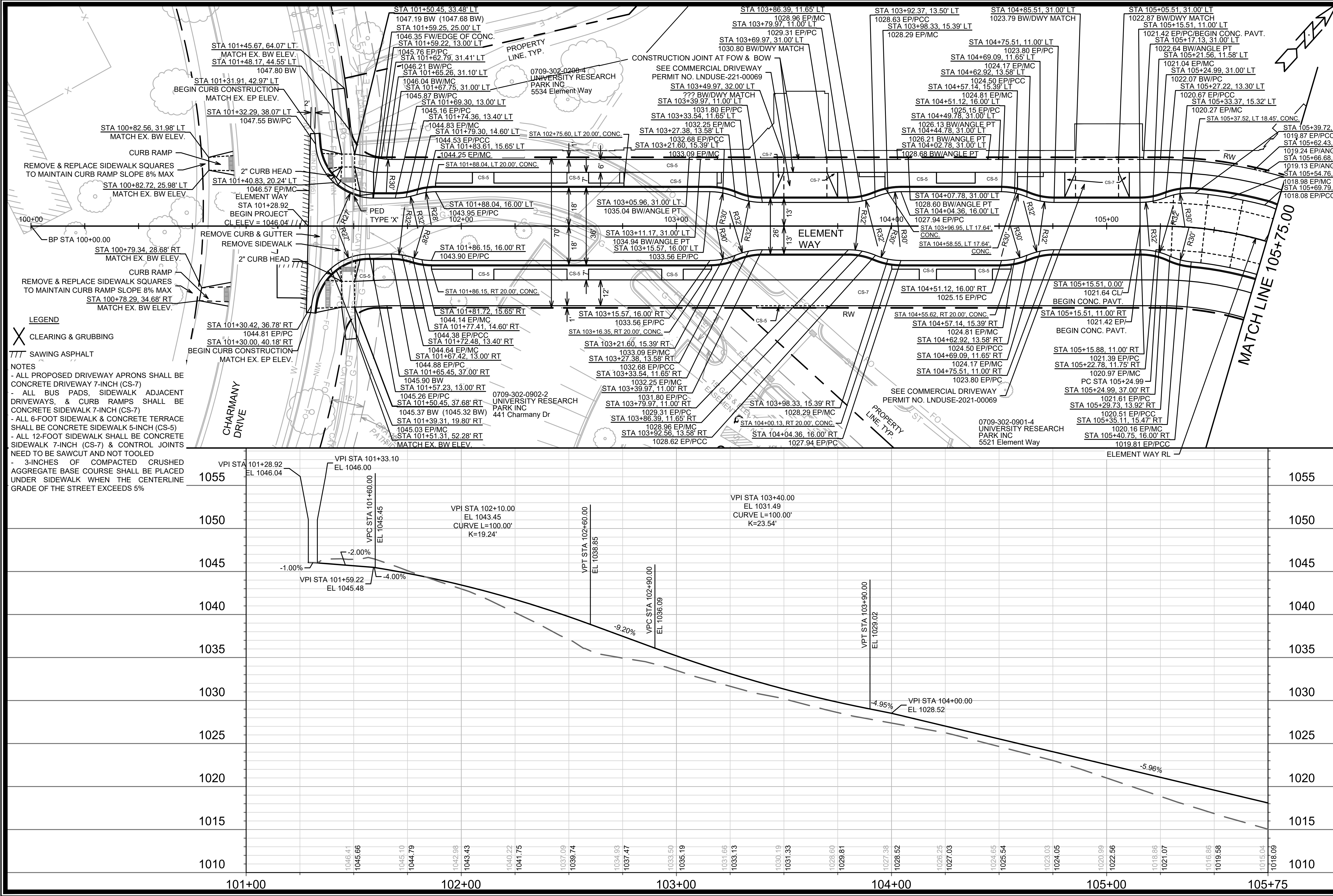

LEGEND

X CLEARING & GRUBBING

SAWING ASPHALT

NOTES

- ALL PROPOSED DRIVEWAY APRONS SHALL BE CONCRETE DRIVEWAY 7-INCH (CS-7)
- ALL BUS PADS, SIDEWALK ADJACENT DRIVEWAYS, & CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH (CS-7)
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- 3-INCHES OF COMPACTED CRUSHED AGGREGATE BASE COURSE SHALL BE PLACED UNDER SIDEWALK WHEN THE CENTERLINE GRADE OF THE STREET EXCEEDS 5%

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ELEMENT WAY PLAN & PROFILE

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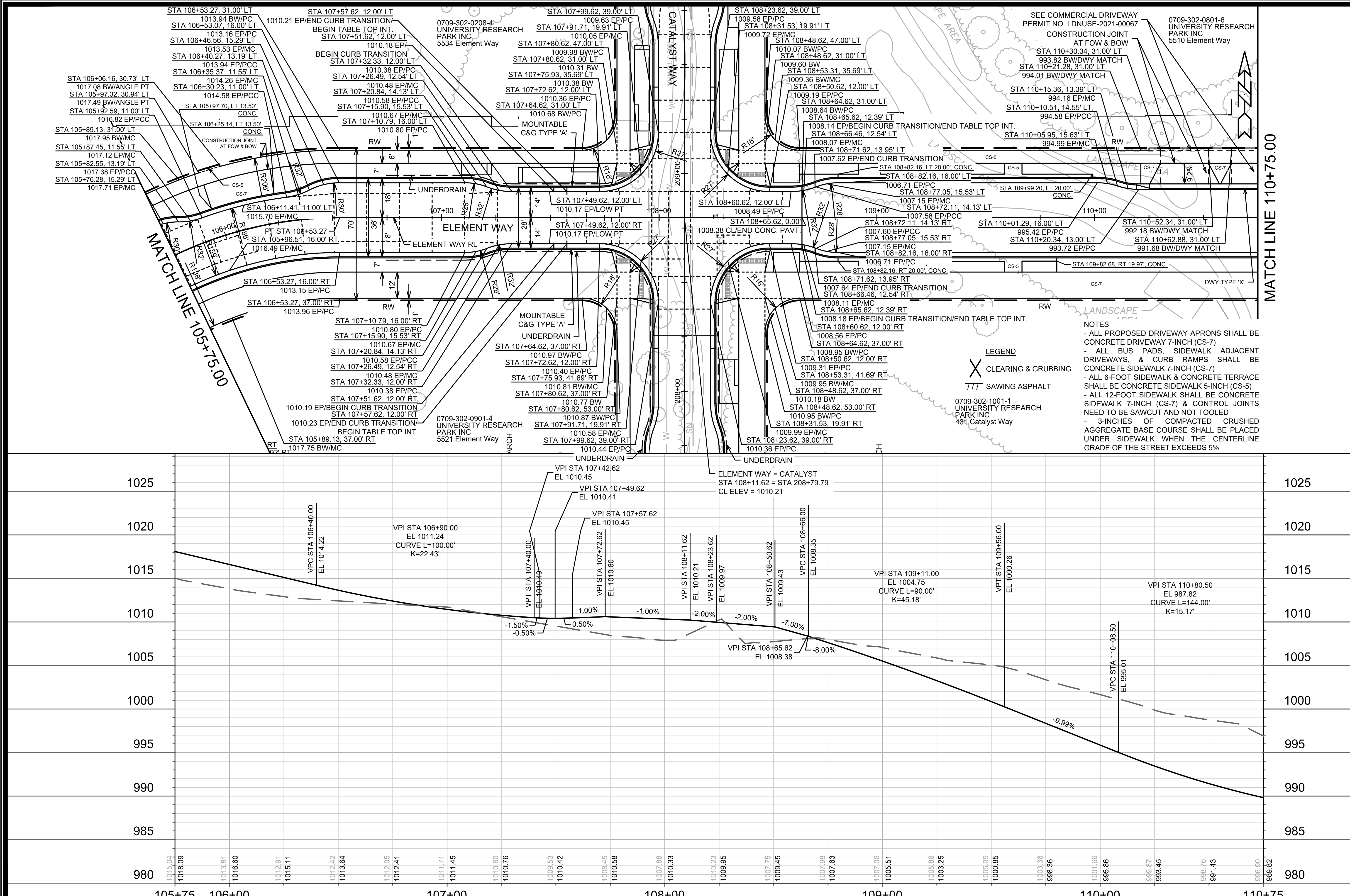

ELEMENT WAY PLAN & PROFILE

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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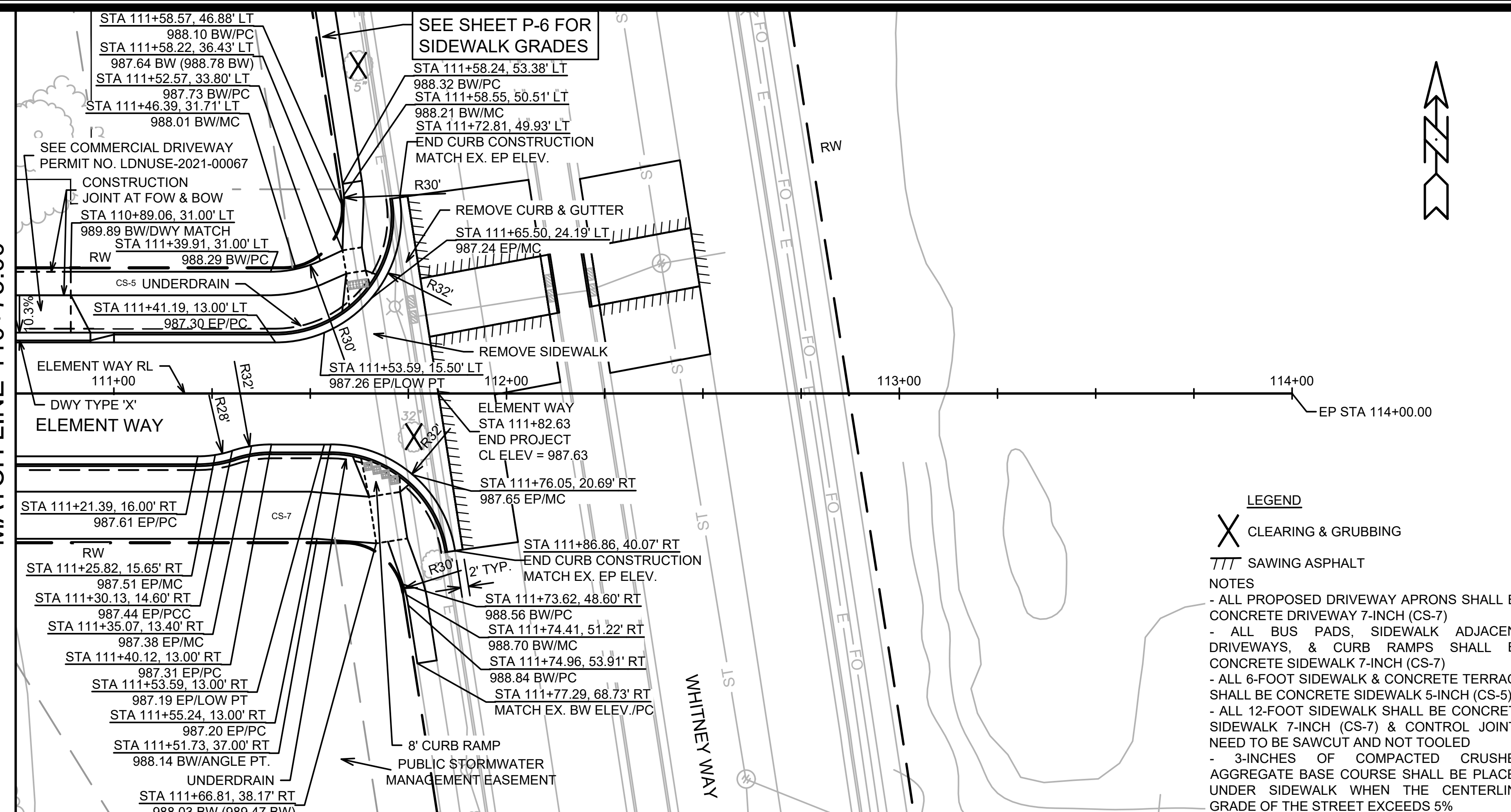

LEGEND

X CLEARING & GRUBBING

SAWING ASPHALT

NOTES

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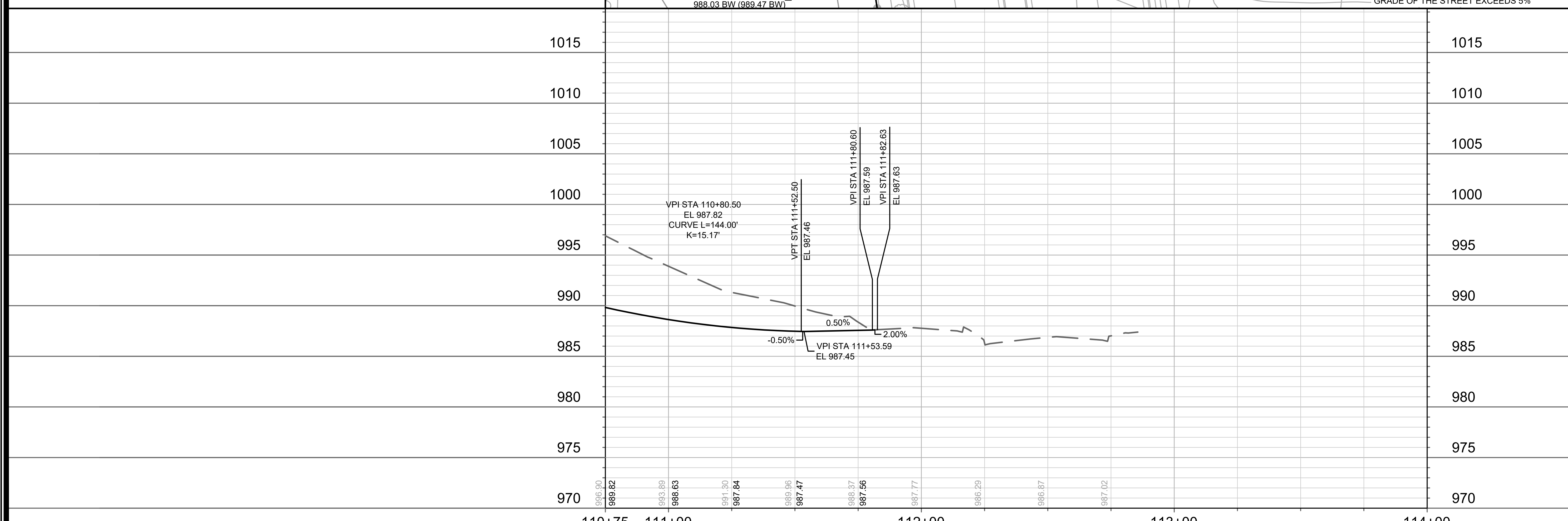

ELEMENT WAY PLAN & PROFILE

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CITY OF MADISON WISCONSIN

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*LOWER EXISTING PAVEMENT ELEVATION FOR PROPOSED CURB & GUTTER TO MAINTAIN TERRACE DRAINAGE TO STREET
**ENDEAVOR LANE PAVEMENT, TYP.
1.75" 4 LT 58-28 S (UPPER LAYER)
1.75" 4 LT 58-28 S (LOWER LAYER)
6.00" GRAD. 2 CRUSHED AGG. BASE COURSE (UPPER LAYER)
6.00" GRAD. 1 CRUSHED AGG. BASE COURSE (LOWER LAYER)

LEGEND
X CLEARING & GRUBBING
SAWING ASPHALT

NOTES
- ALL PROPOSED DRIVEWAY APRONS SHALL BE CONCRETE DRIVEWAY 7-INCH (CS-7)
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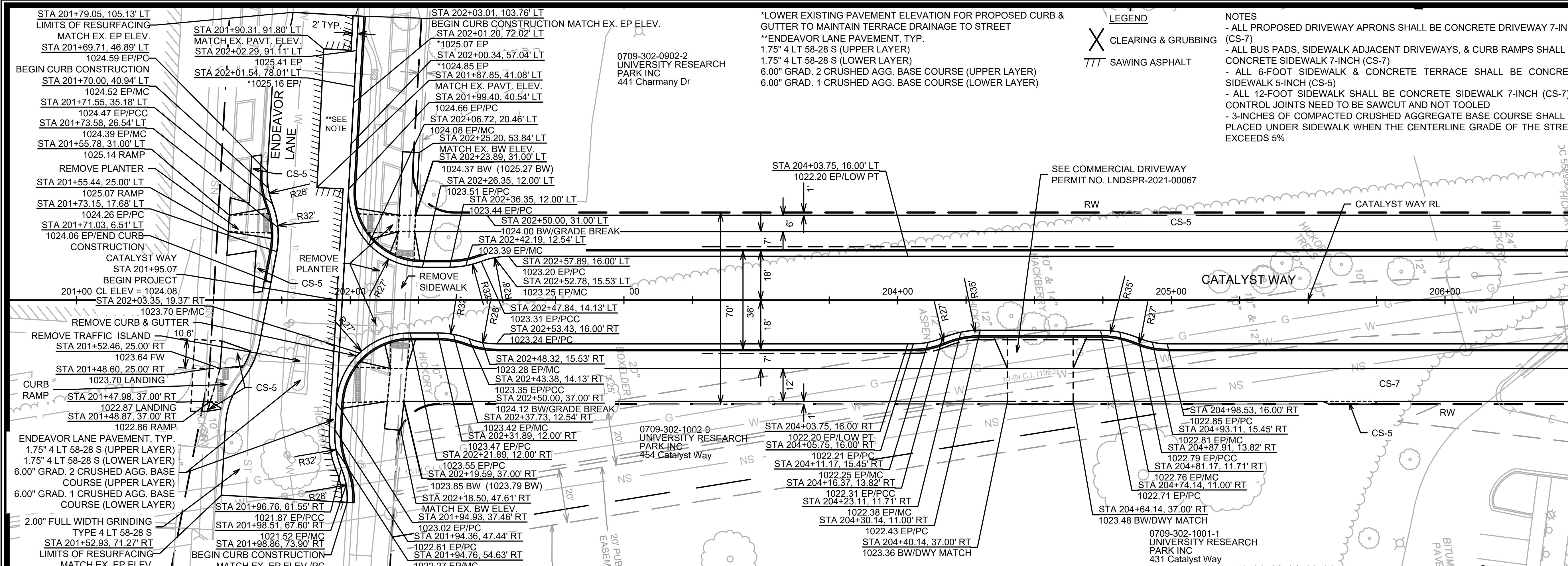

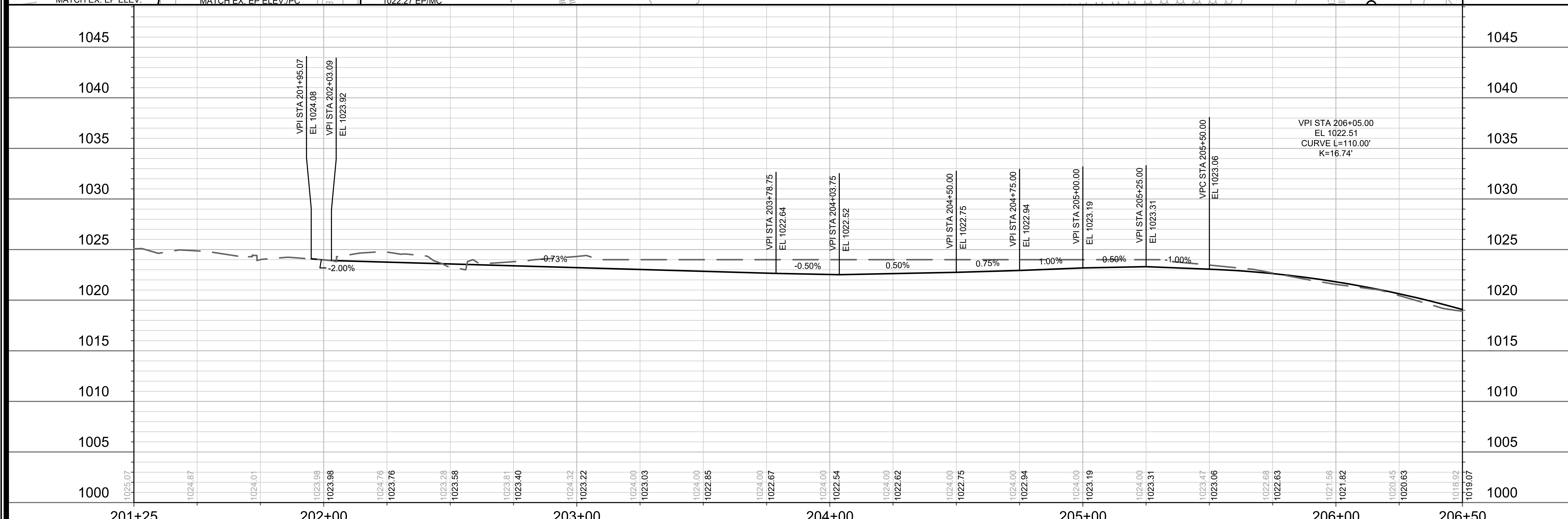

CATALYST WAY PLAN & PROFILE
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CONTRACT NO: 9003

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CITY OF MADISON WISCONSIN

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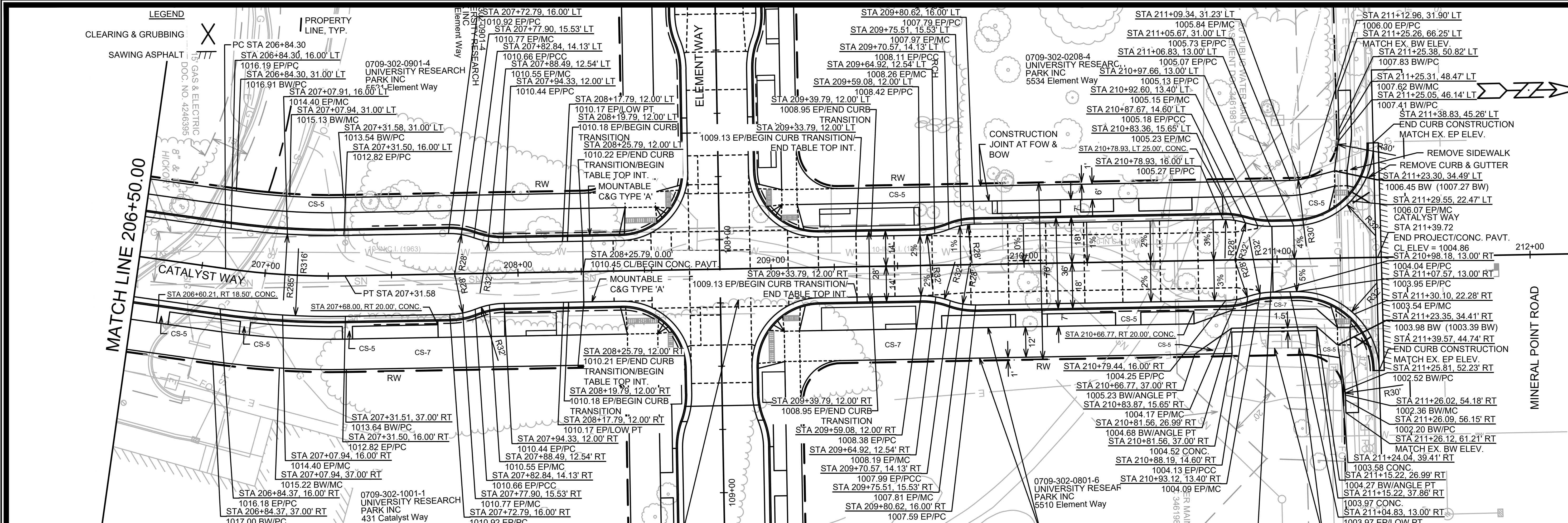

SEE SHEET P-2 FOR INTERSECTION GRADES

NOTES
- ALL PROPOSED DRIVEWAY APRONS SHALL BE CONCRETE DRIVEWAY 7-INCH (CS-7)
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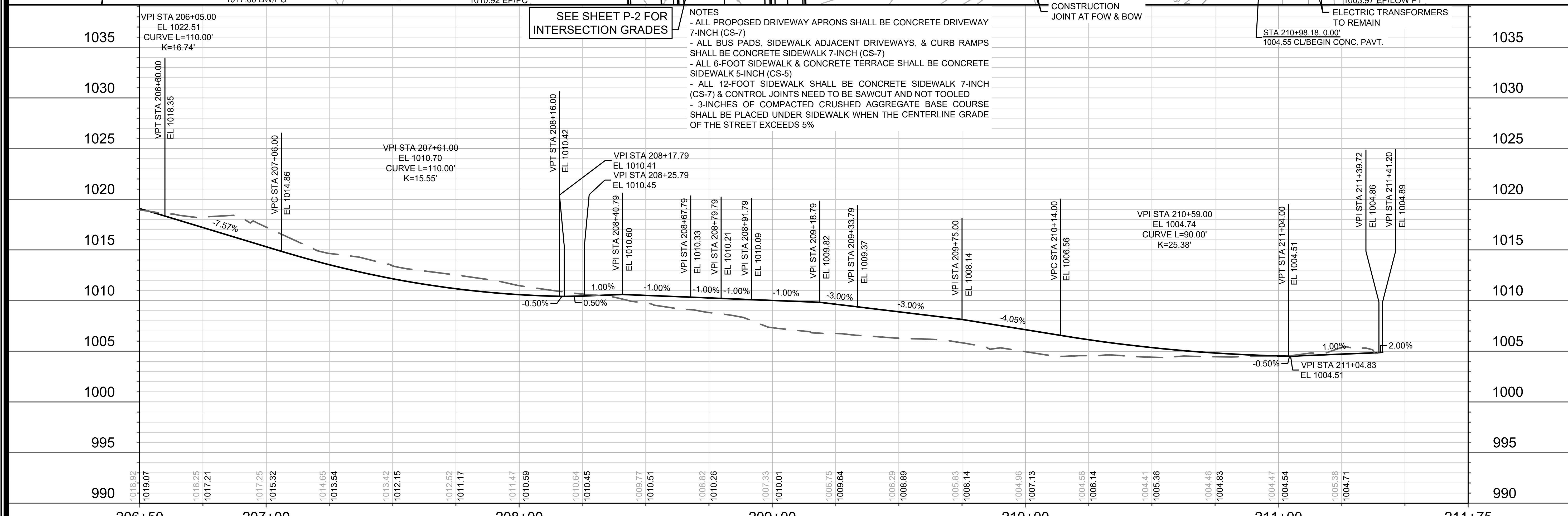

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MADISON, WI

CONTRACT NO: 9003

CATALYST WAY PLAN & PROFILE

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CITY OF MADISON WISCONSIN

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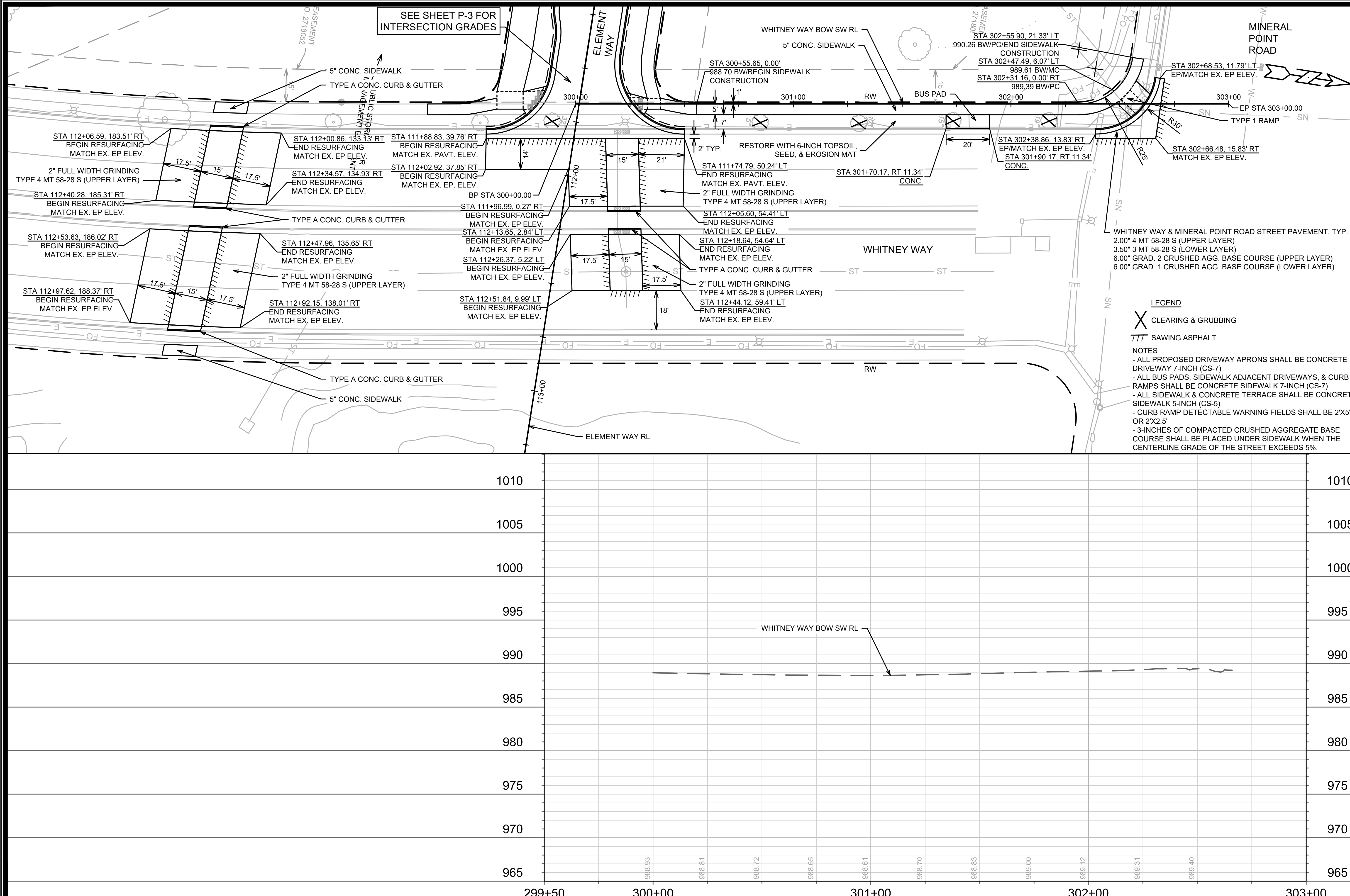

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WHITNEY WAY SIDEWALK PLAN & PROFILE; PAVEMENT REPLACEMENT

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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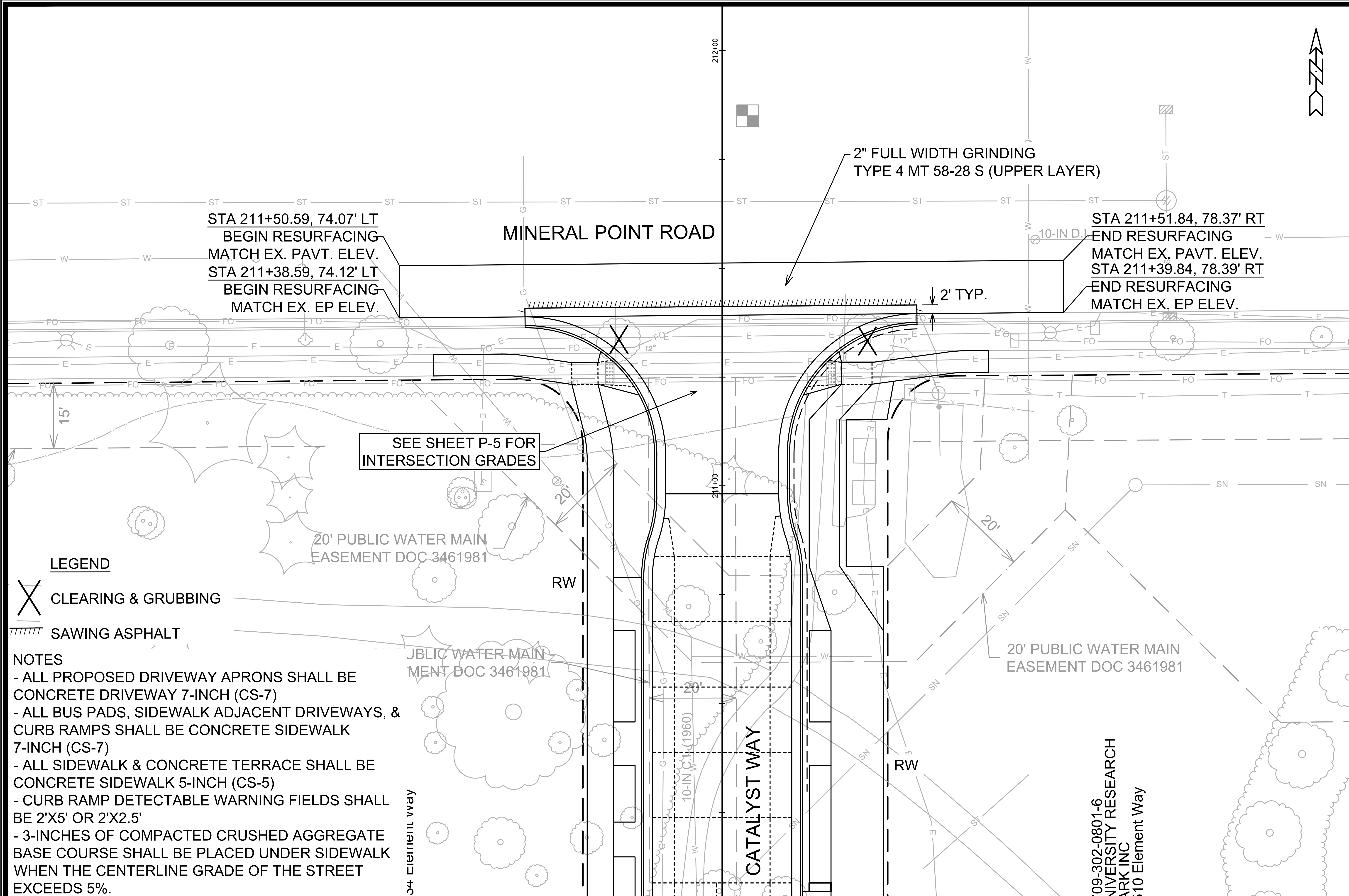


LEGEND

CLEARING & GRUBBING

SAWING ASPHALT

NOTES
- ALL PROPOSED DRIVEWAY APRONS SHALL BE CONCRETE DRIVEWAY 7-INCH (CS-7)
- ALL BUS PADS, SIDEWALK ADJACENT DRIVEWAYS, & CURB RAMPS SHALL BE CONCRETE SIDEWALK 7-INCH (CS-7)
- ALL SIDEWALK & CONCRETE TERRACE SHALL BE CONCRETE SIDEWALK 5-INCH (CS-5)
- CURB RAMP DETECTABLE WARNING FIELDS SHALL BE 2'X5' OR 2'X2.5'
- 3-INCHES OF COMPACTED CRUSHED AGGREGATE BASE COURSE SHALL BE PLACED UNDER SIDEWALK WHEN THE CENTERLINE GRADE OF THE STREET EXCEEDS 5%.

MARK	REVISION	DATE	BY

Designed By: AJZ | Date: 5/25/2022 1:52 PM | Scale: 1" = 20'
13355 | P-7

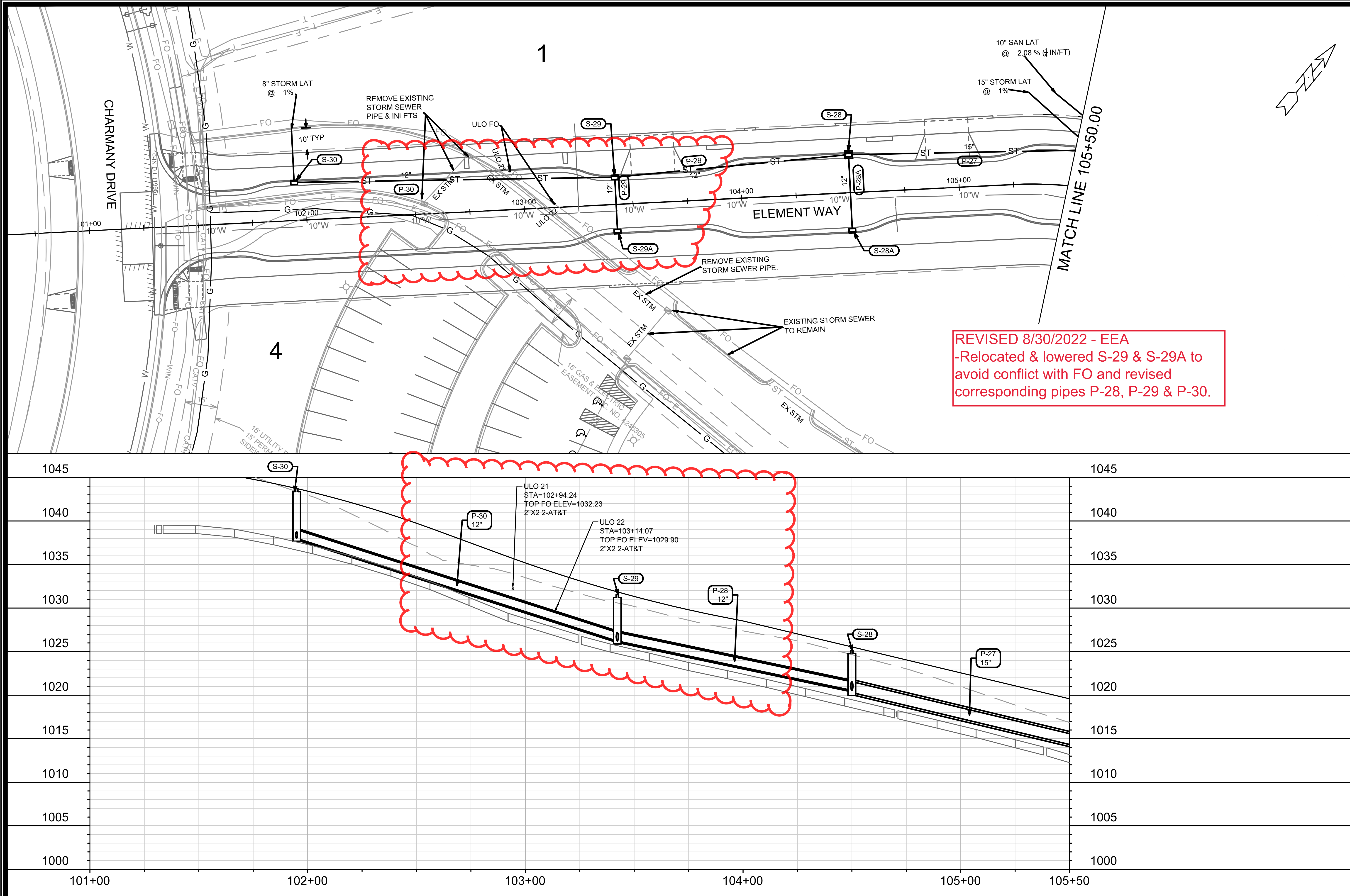
MINERAL POINT ROAD PAVEMENT REPLACEMENT
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
M:\DESIGN\Projects\13355\CAD\Streets\13355EN-PnP MineralPtRd.dwg

13355
MADISON, WI
CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

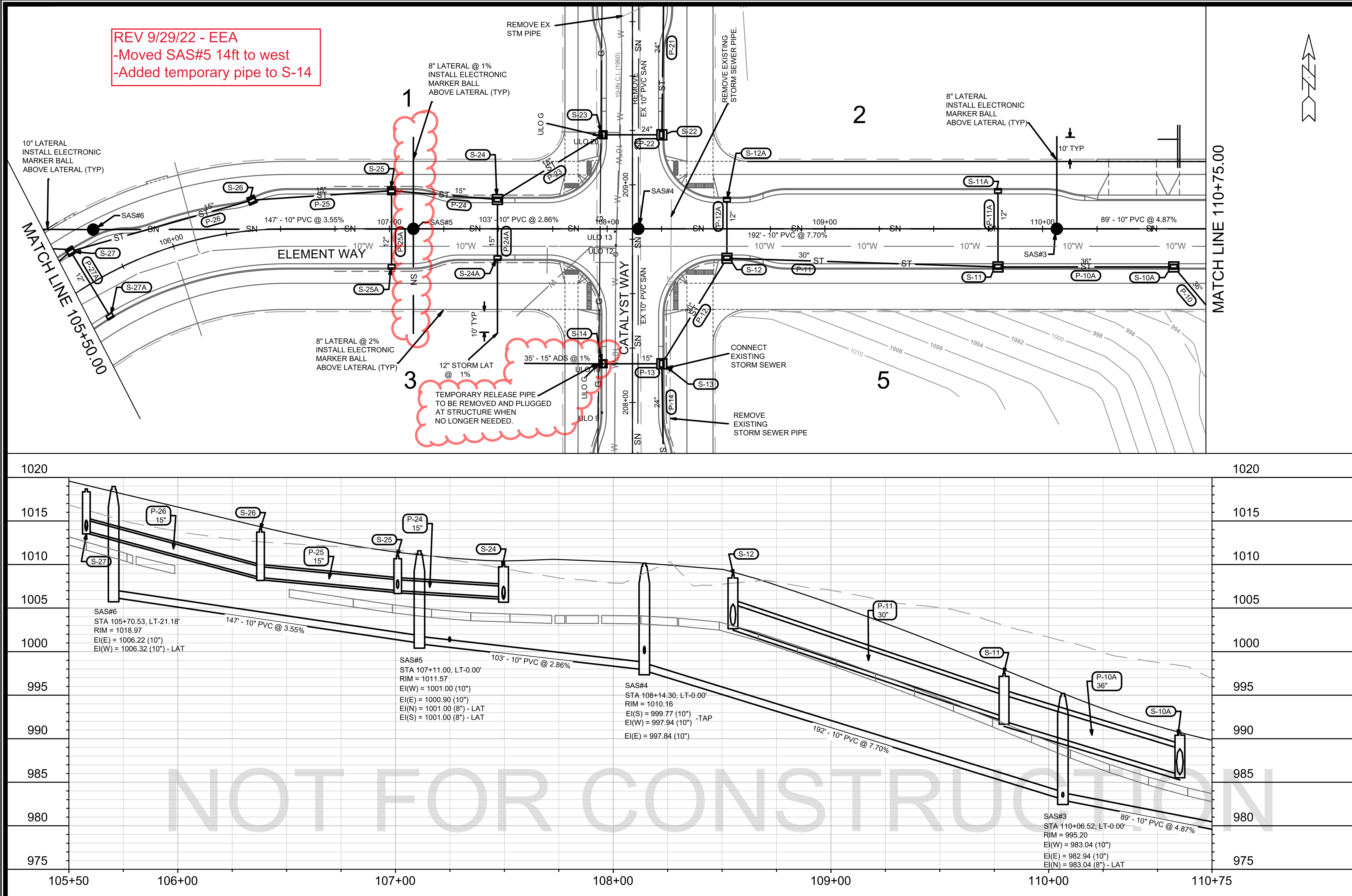
13355

P-7



REVISED 8/30/2022 - EEA
-Relocated & lowered S-29 & S-29A to avoid conflict with FO and revised corresponding pipes P-28, P-29 & P-30.

ELEMENT WAY - UTILITIES PLAN & PROFILE
UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT
MADISON, WI
13355
CONTRACT NO: 9003
M:\DESIGN\Projects\13355\CAD\Sewers\13355SWR-PipeNetwork.dwg
Designed By: EEA Date: 9/1/2022 3:30 PM Scale: 1" = 40'
MARK REVISION DATE BY
13355
U-1
CITY OF MADISON WISCONSIN
13355
U-1



ELEMENT WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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13355

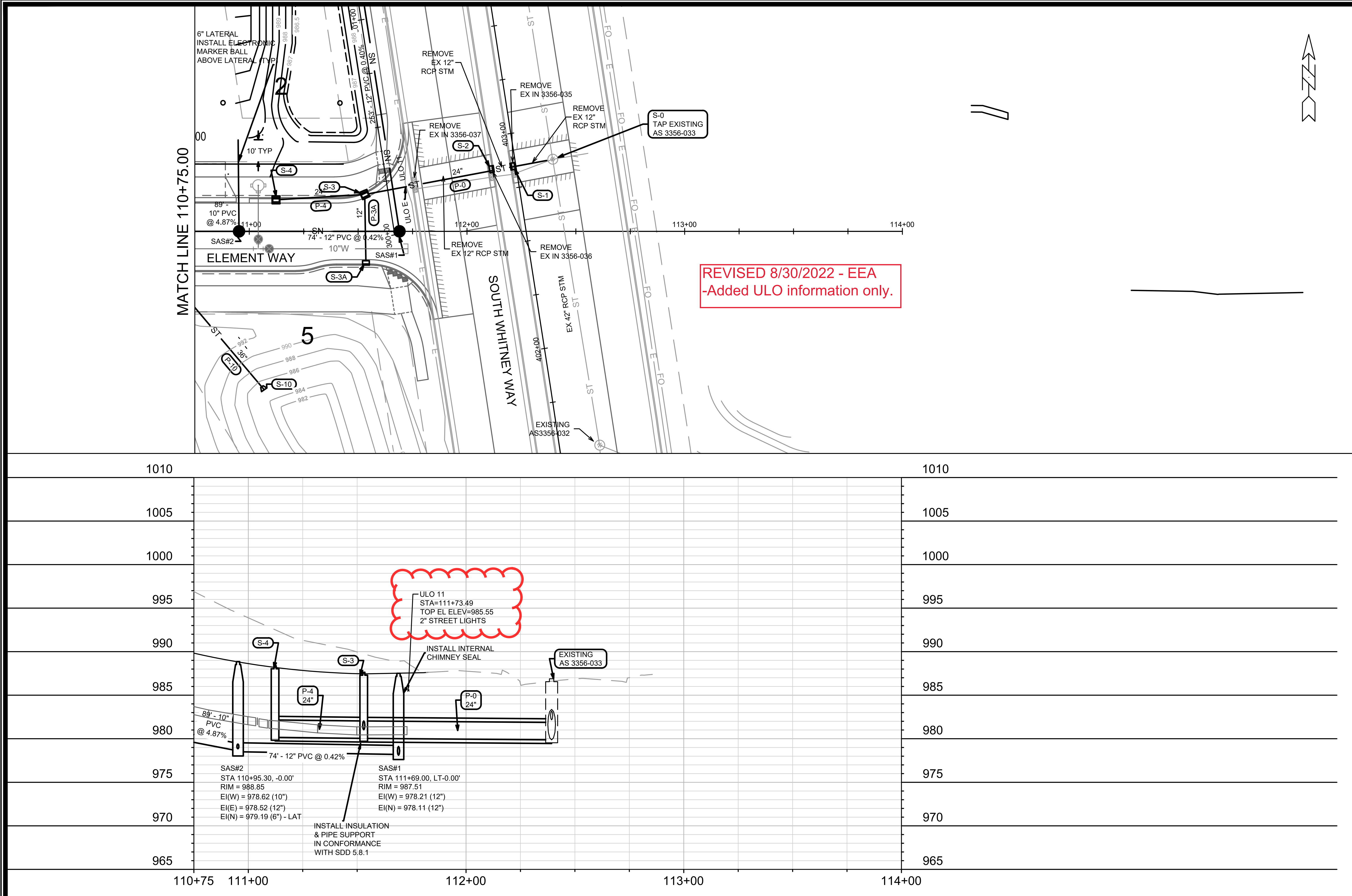
MADISON, WI

CONTRACT NO: 9003

Designed By: EEA Date: 9/29/2022 3:50 PM Scale: 1" = 40'

13355

U-2



13355

MADISON, WI

CONTRACT NO: 9003

ELEMENT WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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MARK | REVISION | DATE | BY

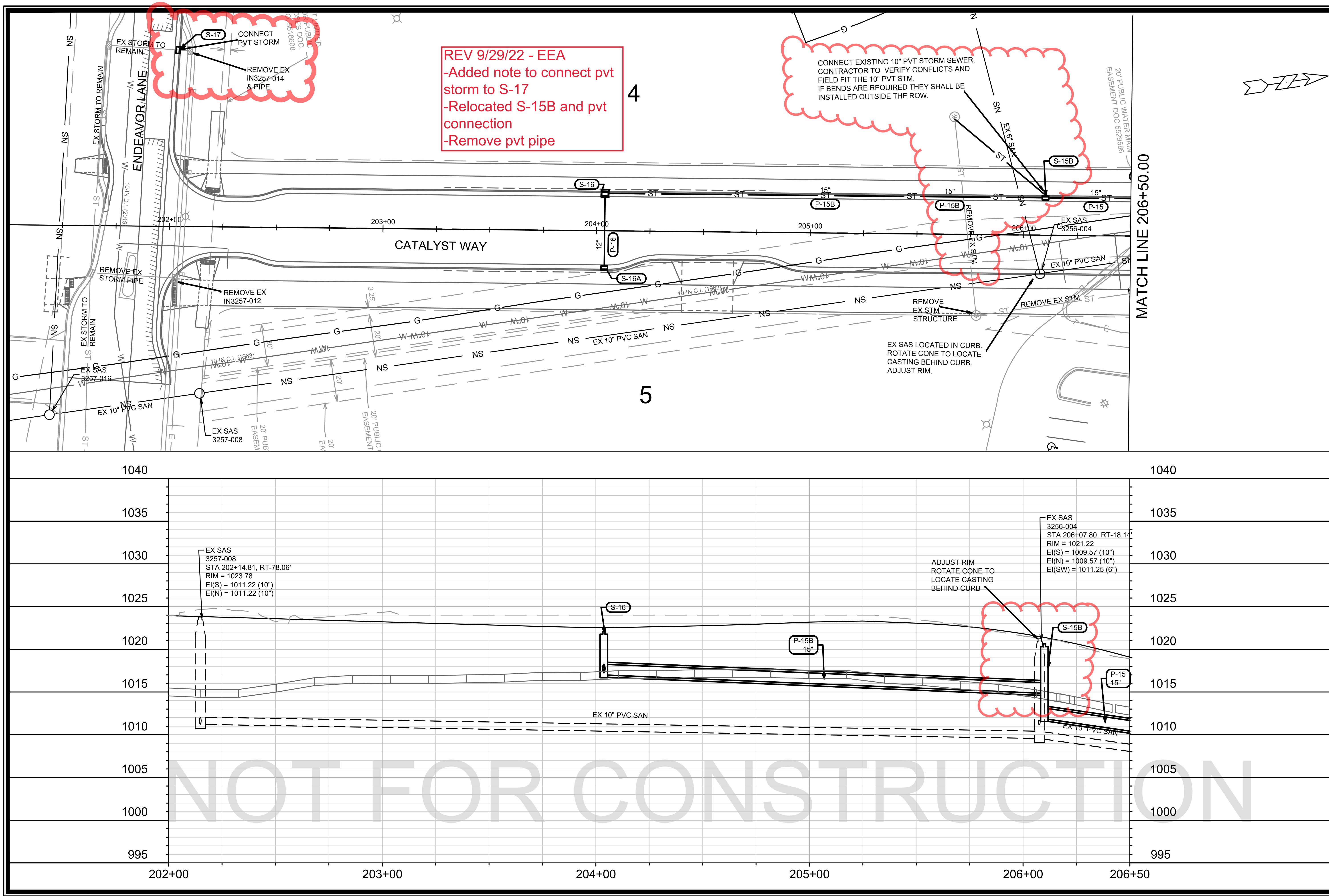
Designed By: EEA | Date: 9/1/2022 4:23 PM | Scale: 1" = 40'

13355 | U-3

CITY OF MADISON WISCONSIN

13355

U-3



MARK	DATE	REVISION	BY
REV3	9/29/22	STORM UPDATE	EEA
REV2	9/23/22	STORM CHANGES	EEA
REV1	8/30/22	ULO & STORM UPDATES	EEA

Designed By: AJZ Date: 12/8/2022 4:00 PM Scale: 1" = 40'

13355

13355

MADISON, WI

CONTRACT NO: 9003

CATALYST WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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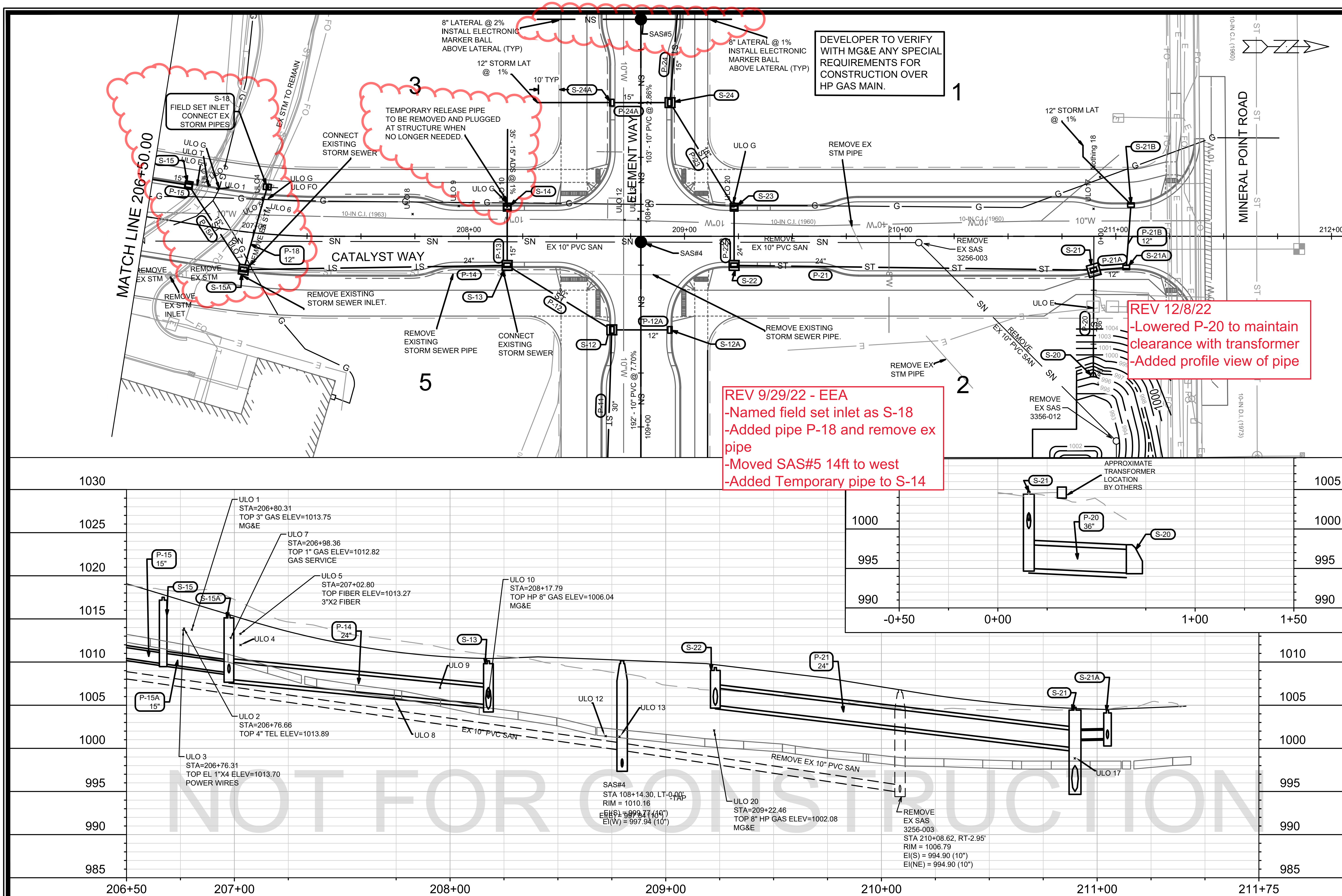
13355

U-4



REV	REVISION	DATE	BY
REV3	STORM & SANITARY CHANGES	9/29/22	EEA
REV2	STORM CHANGES	9/23/22	EEA
REV1	ULO & STORM UPDATES	8/30/22	EEA

Designed By: AJZ | Date: 12/8/2022 3:58 PM | Scale: 1" = 40'

13355 U-5

13355

MADISON, WI

CONTRACT NO: 9003

CATALYST WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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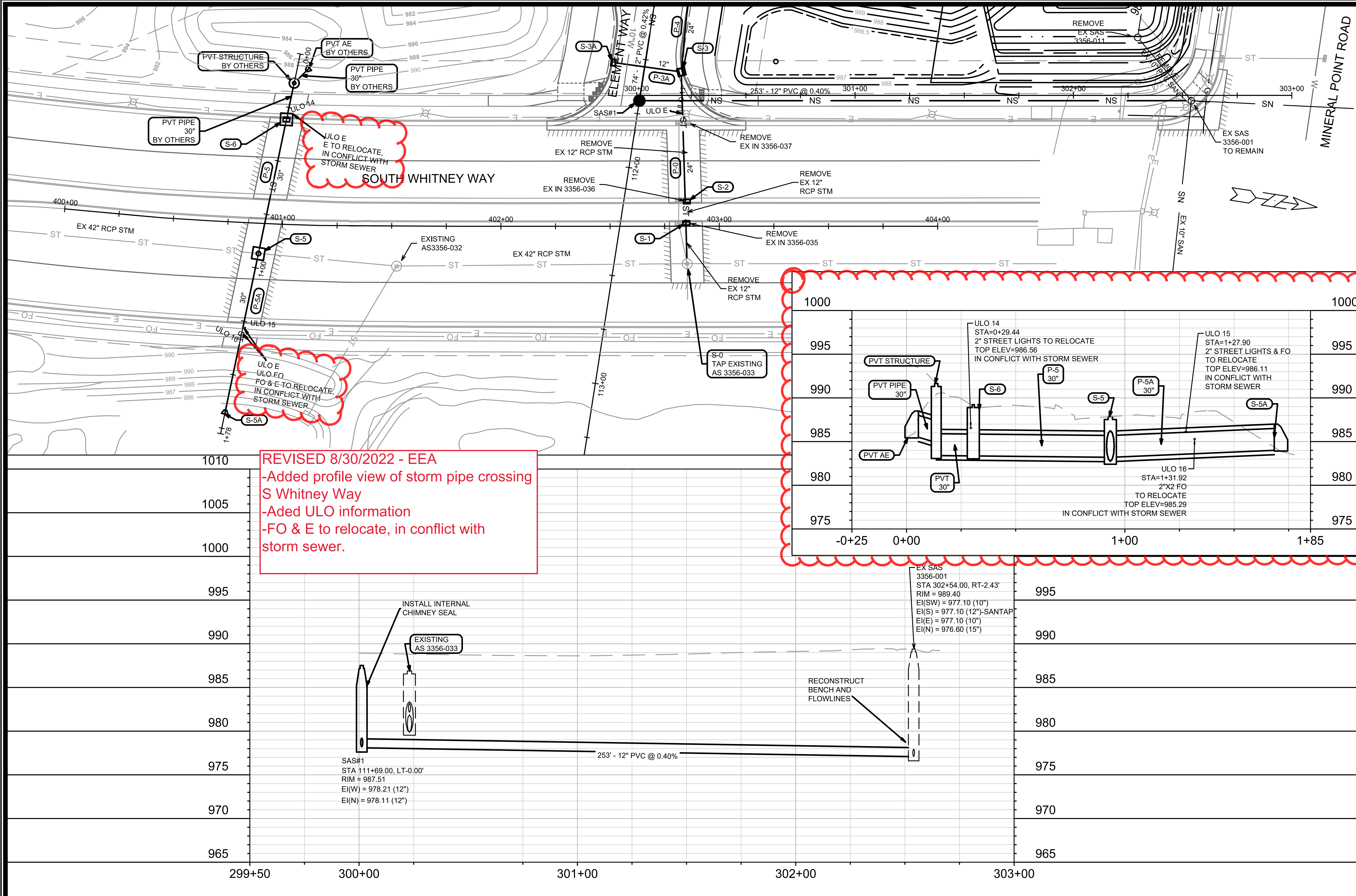
CITY OF MADISON WISCONSIN

13355

U-5



WHITNEY WAY - SANITARY SEWER PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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13355

MADISON, WI

CONTRACT NO: 9003

Designed By: AJZ Date: 9/1/2022 3:55 PM Scale: 1" = 40'

13355

U-6

SANITARY SEWER SCHEDULE

*** REVISED 9/29/2022 - EEA**

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT PROJECT NO. 13355	SHEET NO. U-SAN
SANITARY SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

	SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH (FT)	NOTES
	ELEMENT WAY						
	SAS#1	111+69.00	CL	987.51	978.11	9.40	(1)
	SAS#2	110+95.30	CL	988.85	978.52	10.33	-
	SAS#3	110+06.52	CL	995.20	982.94	12.26	-
	SAS#4	108+14.30	CL	1010.16	997.84	12.32	-
*	SAS#5	**107+11.00**	CL	**1011.57**	1000.90	**10.67**	-
	SAS#6	105+70.53	LT-21.18	1018.97	1006.22	12.75	-

PROPOSED SANITARY PIPES

	FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
	ELEMENT WAY								
	EX 3356-001	SAS#1	977.10	978.11	253	0.40%	12"	SDR-35	-
	SAS#1	SAS#2	978.21	978.52	74	0.42%	12"	SDR-35	-
	SAS#2	SAS#3	978.62	982.94	89	4.87%	10"	SDR-35	-
	SAS#3	SAS#4	983.04	997.84	192	7.70%	10"	SDR-35	-
*	SAS#4	SAS#5	997.94	1000.90	**103**	**2.86%**	10"	SDR-35	-
*	SAS#5	SAS#6	1001.00	1006.22	**147**	**3.55%**	10"	SDR-35	-

SANITARY STRUCTURE REMOVALS

STRUC. NO.	STATION	LOCATION (OFFSET)	NOTES
CATALYST WAY			
3256-003	210+08.62	RT-2.95	-
3356-012	211+00.21	RT-94.93	-
WHITNEY WAY			
3356-011	302+29.42	LT-26.51	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LENGTH (FT)	SIZE	TYPE	NOTES
CATALYST WAY					
SAS#4	3256-003	129	10"	PVC	-
3256-003	3356-012	130	10"	PVC	-
3356-012	3356-011	199	10"	PVC	-
WHITNEY WAY					
3356-011	3356-001	38	10"	PVC	-

NOT FOR CONSTRUCTION

NOTES:

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

(1) INSTALL INTERNAL CHIMNEY SEAL IN CONFORMANCE WITH SDD 5.7.17

STORM SEWER SCHEDULE

* REVISED 8/30/2022 - EEA
++ REVISED 9/23/2022 - EEA
# REVISED 10/5/2022 - EEA
^^ REVISED 12/8/2022 - EEA

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT
SHEET NO. U-STM
PROJECT NO. 13355
STORM SEWER SCHEDULE
CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
WHITNEY WAY							
S-0	402+85.24	RT-17.12	STORM TAP	-	979.87	-	TAP EX AS 3356-033
S-1	402+84.94	LT-1.50	SADDLED H INLET	985.93	-	-	W/ R-3067-7004-V
S-2	402+85.15	LT-11.25	SADDLED H INLET	987.21	-	-	W/ R-3067-7004-V
S-5	400+89.18	RT-14.15	5X5 SAS	987.87	983.20	4.67	FP; W/ R-1550
S-5A	400+78.05	RT-88.00	30" APRON END	-	984.00	-	W/ GATE
S-6	401+00.29	LT-48.06	5X5 SAS	989.23	983.36	5.87	W/ R-3067-7004-V
ELEMENT WAY							
S-3	111+53.03	LT-16.94	3X3 SAS	987.63	980.04	7.59	LP; W/ R-3067-7004-VB
S-3A	111+53.60	RT-14.50	H INLET	987.57	983.77	3.80	LP; W/ R-3067-7004-VB
S-4	111+12.30	LT-14.50	3X3 SAS	988.37	980.16	8.21	W/ R-3067-7004-V
S-10	111+06.87	RT-72.78	36" APRON END	-	985.50	-	W/ GATE
S-10A	110+60.25	RT-17.50	4X4 SAS	990.73	985.85	4.88	FP; W/ R-3067-7004-V
S-11	109+79.50	RT-17.50	4X4 SAS	997.97	992.00	5.97	W/ R-3067-7004-V
S-11A	109+79.50	LT-17.50	H INLET	997.97	994.22	3.75	W/ R-3067-7004-V
S-12	108+55.00	RT-13.50	4X4 SAS	1009.26	1002.96	6.29	W/ R-3067-7004-V
S-12A	108+55.00	LT-13.50	H INLET	1009.26	1005.45	3.80	W/ R-3067-7004-V
S-24	107+49.62	LT-13.50	4X4 SAS	1010.55	1006.00	4.55	LP: W/ R-3067-7004-VB
S-24A	107+49.62	RT-13.50	H INLET	1010.55	1006.75	3.80	LP: W/ R-3067-7004-VB
S-25	107+01.00	LT-17.50	3X3 SAS	1011.48	1007.00	4.48	W/ R-3067-7004-V
S-25A	107+01.00	RT-17.50	H INLET	1011.48	1007.68	3.80	W/ R-3067-7004-V
S-26	106+38.00	LT-13.90	3X3 SAS	1014.47	1008.50	5.97	W/ R-3067-7004-V
S-27	105+58.00	LT-17.50	3X3 SAS	1019.16	1013.85	5.30	W/ R-3067-7004-V; (1)
S-27A	105+58.00	RT-17.50	H INLET	1019.17	1015.37	3.79	W/ R-3067-7004-V
S-28	104+50.00	LT-17.50	3X3 SAS	1025.60	1020.30	5.30	W/ R-3067-7004-V; (2)
S-28A	104+50.00	RT-17.50	H INLET	1025.60	1021.80	3.80	W/ R-3067-7004-V
* S-29	103+42.25	LT-12.50	H INLET	1032.01	1026.21	5.80	W/ R-3067-7004-V
* S-29A	103+42.25	RT-12.50	H INLET	1032.02	1028.22	3.80	W/ R-3067-7004-V
S-30	101+95.00	LT-17.50	H INLET	1043.60	1038.00	5.60	W/ R-3067-7004-V
CATALYST WAY							
* S-13	208+17.79	RT-13.50	4X4 SAS	1010.55	1004.55	6.00	FP; LP: W/ R-3067-7004-VB
#* S-14	208+17.79	LT-13.50	H INLET	1010.55	1007.55	3.00	LP: W/ R-3067-7004-VB; (6)
* S-15	206+67.00	LT-17.50	3X3 SAS	1017.98	1009.80	8.18	W/ R-3067-7004-V
* S-15A	206+97.50	RT-17.50	4X4 SAS	1015.93	1008.00	7.92	W/ R-3067-7004-V; (3)
#++ S-15B	206+10.00	LT-17.50	H INLET	1021.16	1011.88	9.28	W/ R-3067-7004-V; (4)
S-16	204+03.75	LT-17.50	3X3 SAS	1022.58	1017.00	5.58	LP: W/ R-3067-7004-VB
S-16A	204+03.75	RT-17.50	H INLET	1022.58	1018.98	3.60	LP: W/ R-3067-7004-VB
# S-17	202+03.34	LT-82.54	H INLET	1025.61	1021.95	3.66	FP; W/ R-3067-7004-V; (3); (7)
# S-18	207+04.56	LT-21.76	H INLET	1015.15	1009.13	6.02	FP; W/ R-1878-B7L; (5)
^^ S-20	210+89.55	RT-65.12	36" APRON END	-	992.50	-	W/ GATE
S-21	210+89.75	RT-15.70	5X5 SAS	1004.92	999.05	5.87	W/ R-3067-7004-V
S-21A	211+04.83	RT-14.50	H INLET	1004.35	1001.13	3.22	LP: W/ R-3067-7004-VB
S-21B	211+07.00	LT-14.50	H INLET	1004.81	1001.28	3.52	W/ R-3067-7004-V
S-22	209+23.00	RT-13.50	4X4 SAS	1009.83	1005.00	4.83	W/ R-3067-7004-V
S-23	209+23.00	LT-13.50	3X3 SAS	1009.83	1005.16	4.67	W/ R-3067-7004-V

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
WHITNEY WAY										
P-0	S-0	S-3	979.87	980.04	88	84	0.20%	24"	TYPE I	-
P-5	S-5	S-6	983.20	983.36	63	58	0.28%	30"	TYPE I	-
P-5A	S-5	S-5A	983.20	984.00	75	73	1.10%	30"	TYPE I	-
ELEMENT WAY										
P-3A	S-3	S-3A	981.04	983.77	31	29	9.41%	12"	TYPE I	-
P-4	S-3	S-4	980.04	980.16	41	38	0.32%	24"	TYPE II	-
P-10	S-10	S-10A	985.50	985.85	72	70	0.50%	36"	TYPE I	-
P-10A	S-10A	S-11	985.85	992.00	81	77	7.99%	36"	TYPE I	-
P-11	S-11	S-12	992.50	1002.96	125	121	8.64%	30"	TYPE I	-
P-11A	S-11	S-11A	994.00	994.22	35	32	0.69%	12"	TYPE I	-
P-12	S-12	S-13	1002.96	1004.55	57	53	3.00%	30"	TYPE II	-
P-12A	S-12	S-12A	1004.46	1005.45	27	24	4.13%	12"	TYPE I	-
P-24	S-24	S-25	1006.25	1007.00	49	45	1.67%	15"	TYPE II	-
P-24A	S-24	S-24A	1006.25	1006.75	27	24	2.08%	15"	TYPE I	-
P-25	S-25	S-26	1007.00	1008.50	64	61	2.46%	15"	TYPE I	-
P-25A	S-25	S-25A	1007.25	1007.68	35	33	1.30%	12"	TYPE I	-
P-26	S-26	S-27	1008.50	1013.85	86	84	6.37%	15"	TYPE I	-
P-27	S-27	S-28	1013.85	1020.30	111	108	5.97%	15"	TYPE II	-
P-27A	S-27	S-27A	1014.10	1015.37	35	33	3.85%	12"	TYPE II	-
* P-28	S-28	S-29	1020.55	1026.21	108	105	5.39%	12"	TYPE II	-
P-28A	S-28	S-28A	1020.55	1021.80	35	33	3.79%	12"	TYPE I	-
* P-29	S-29	S-29A	1026.21	1030.18	25	23	17.26%	12"	TYPE I	-
* P-30	S-29	S-30	1026.21	1038.00	147	144	8.19%	12"	TYPE I	-
CATALYST WAY										
* P-13	S-13	S-14	1005.80	1007.55	27	24	7.29%	15"	TYPE I	-
* P-14	S-13	S-15A	1005.05	1008.00	122	118	2.50%	24"	TYPE II	-
* P-15A	S-15A	S-15	1008.75	1009.80	47	42	2.50%	15"	TYPE I	-
#++ P-15	S-15	S-15B	1009.80	1011.88	96	93	2.24%	15"	TYPE II	-
#++ P-15B	S-15B	S-16	1014.84	1017.00	168	165	1.31%	15"	TYPE II	-
P-16	S-16	S-16A	1017.25	1018.98	35	33	5.24%	12"	TYPE I	-
# P-18	S-15A	S-18	1008.75	1009.13	40	38	1.00%	12"	TYPE I	NCM
^^ P-20	S-20	S-21	994.42	995.00	49	47	1.23%	36"	TYPE I	-
P-21	S-21	S-22	1000.05	1005.00	167	162	3.06%	24"	TYPE I	-
P-21A	S-21	S-21A	1001.05	1001.13	15	11	0.68%	12"	TYPE II	-
P-21B	S-21A	S-21B	1001.13	1001.28	29	27	0.54%	12"	TYPE I	-
P-22	S-22	S-23	1005.00	1005.16	27	24	0.67%	24"	TYPE I	-
P-23	S-23	S-24	1005.66	1006.00	57	53	0.64%	18"	TYPE II	-

NOTES:

(1) BOX OUT TO WEST FOR 10" STM LAT AT EI = 1014.27
(2) BOX OUT TO WEST FOR 6" STM LAT AT EI = 1021.05
(3) RECONNECT EX STORM; FIELD CONFIRM EI
#++ (4) RECONNECT EX PVT STORM TO W AT EI=1016.39
(5) FIELD CONFIRM INVERT; CONNECT EX PVT STORM TO WEST
(6) CONNECT TEMPORARY 15" ADS RELEASE PIPE AT EI= 1007.55
(7) CONNECT PVT STORM TO NORTH

STANDARD NOTES:

-PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR STORM SEWER PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.
-FOR SWM PRECAST APPROVALS CONTACT PHIL GAEBLER AT (608) 266-4059 OR EMAIL SWM SHOP DRAWINGS TO PGAEBLER@CITYOFMADISON.COM

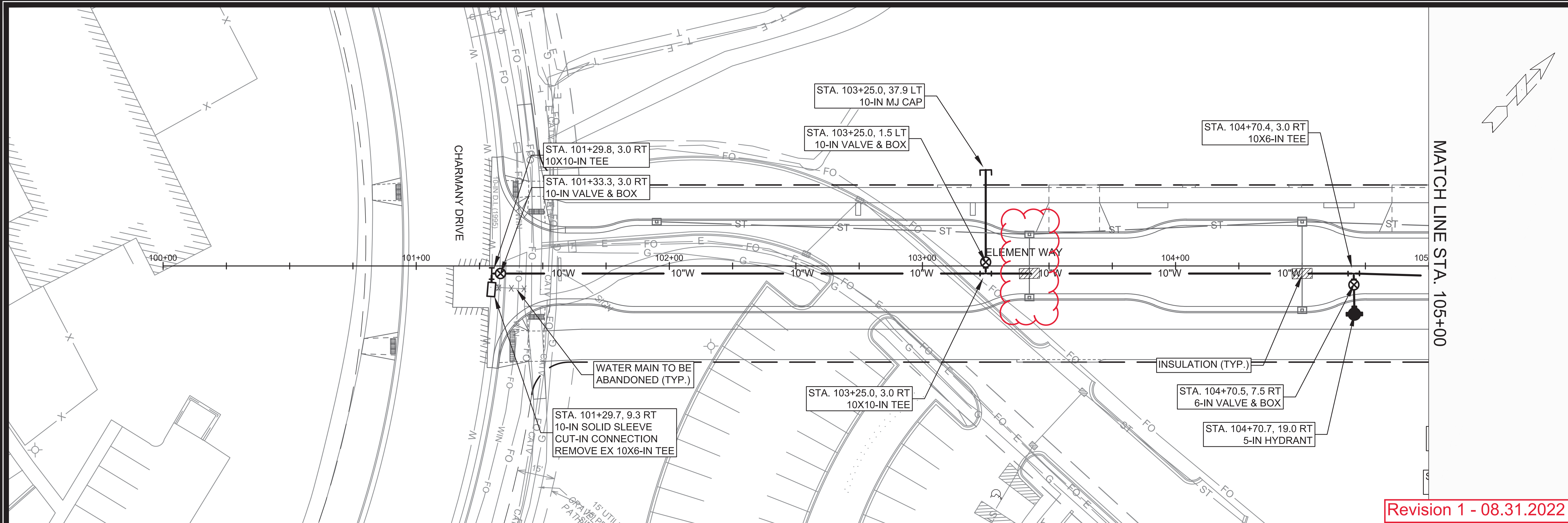
ULO SCHEDULE

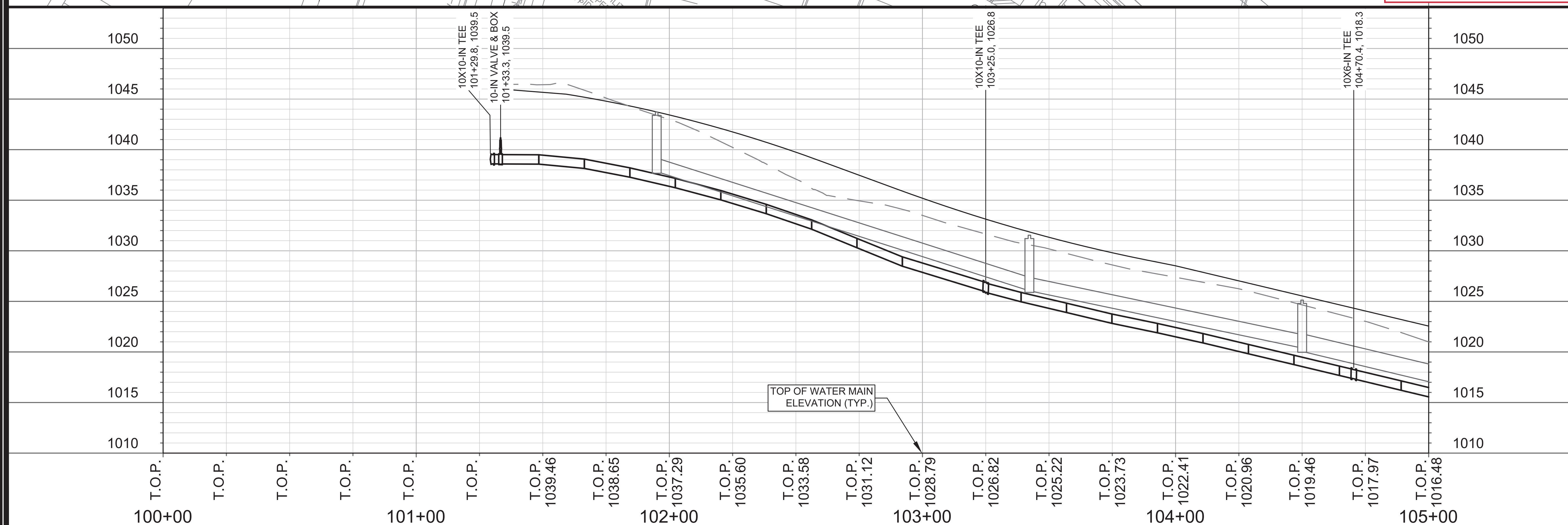
*** REVISED 8/30/2022 - EEA**

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT	SHEET NO. U-STM2
PROJECT NO. 13355	
ULO SCHEDULE	CITY OF MADISON

ULO SCHEDULE

	ID NO. (OFFSET)	STATION	LOCATION (OFFSET)	TYPE	ELEV	NORTH	EAST	NOTES	
	CATALYST WAY								
*	ULO-1	206+80.31	LT-17.86	TOP 3" GAS	1013.754	477295.525	797271.646	MG&E - TO SLIPSTEAM	
*	ULO-2	206+76.66	LT-18.94	TOP 4" TEL	1013.887	477292.083	797270.006	COMUNICATION TO SLIPSTREAM	
*	ULO-3	206+76.31	LT-19.17	TOP 1"X4 EL	1013.695	477291.776	797269.732	4 - POWER WIRES TO SLIPSTREAM	
*	ULO-4	207+02.88	LT-15.47	TOP 8"HP GAS	1011.983	477316.567	797276.85	MG&E	
*	ULO-5	207+02.80	LT-16.55	TOP 3"X2 FIBER	1013.273	477316.601	797275.774	2 - FIBER TO SLIPSTREAM	
*	ULO-6	207+04.35	LT-10.78	TOP 10"WATER	1017.668	477317.538	797281.655	WATERMAIN	
*	ULO-7	206+98.36	RT-11.98	TOP 1" GAS	1012.815	477309.285	797303.691	GAS SERVICE SLIPSTREAM	
*	ULO-8	207+73.95	LT-10.30	TOP 10" WATER	1005.817	477386.122	797283.317	WATERMAIN	
*	ULO-9	207+95.37	LT-14.00	TOP 8" HP GAS	1007.004	477407.547	797279.619	MG&E	
*	ULO-10	208+17.79	LT-13.51	TOP 8" HP GAS	1006.04	477429.963	797280.106	MG&E	
*	ULO-12	208+72.19	LT-7.62	TOP 10" WATER	1001.417	477484.366	797286.001	WATERMAIN	
*	ULO-13	208+78.55	LT-8.04	TOP 10" WATER	1001.35	477490.729	797285.575	WATERMAIN	
*	ULO-17	210+89.68	LT-12.75	TOP 8" HP GAS	998.831	477701.851	797280.871	MG&E	
*	ULO-18	210+92.68	LT-27.51	Nothing	1005.322	477704.856	797266.106	Went down 12' did not find anything	
*	ULO-19	210+90.24	RT-33.41	Nothing	1003.54	477702.416	797327.026	Went down 8' found nothing. Think elec was removed by Parisi for building construction.	
*	ULO-20	209+22.46	LT-14.31	TOP 8" HP GAS	1002.075	477534.631	797279.305	MG&E	
	ELEMENT WAY								
*	ULO-11	111+73.49	LT-21.40	TOP 2" EL	985.554	477513.361	797655.486	STREET LIGHTS	
*	ULO-21	102+94.24	LT-17.67	TOP 2"X2 FIBER	1032.233	477305.745	796834.863	2 - AT&T	
*	ULO-22	103+14.07	LT-1.77	TOP 2"X2 FIBER	1029.905	477307.198	796860.247	2 - AT&T	
	WHITNEY WAY								
*	ULO-14	401+00.92	LT-49.09	TOP 2" EL	986.565	477334.102	797683.247	STREET LIGHTS	EL TO RELOCATE, IN CONFLICT WITH STORM SEWER
*	ULO-15	400+89.94	RT-48.16	TOP 2" EL & F	986.114	477329.526	797781.606	STREET LIGHTS & COMUNICATION IN SAME HOLE	EL & FO TO RELOCATE, IN CONFLICT WITH STORM SEWER
*	ULO-16	400+84.40	RT-52.14	Top 2"X2 FIBER	985.288	477329.422	797785.624	2 - FIBER LINES	FO TO RELOCATE, IN CONFLICT WITH STORM SEWER





SCALE: 1" = 40'
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:8/31/22

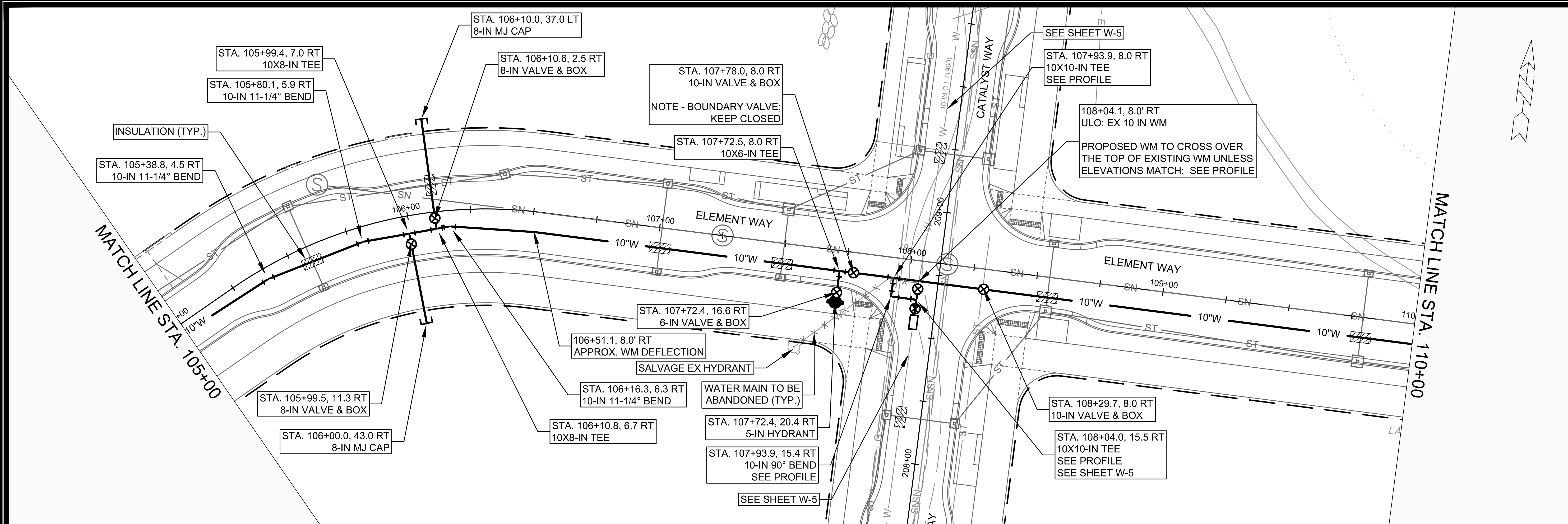
CONTRACT NO: 9003

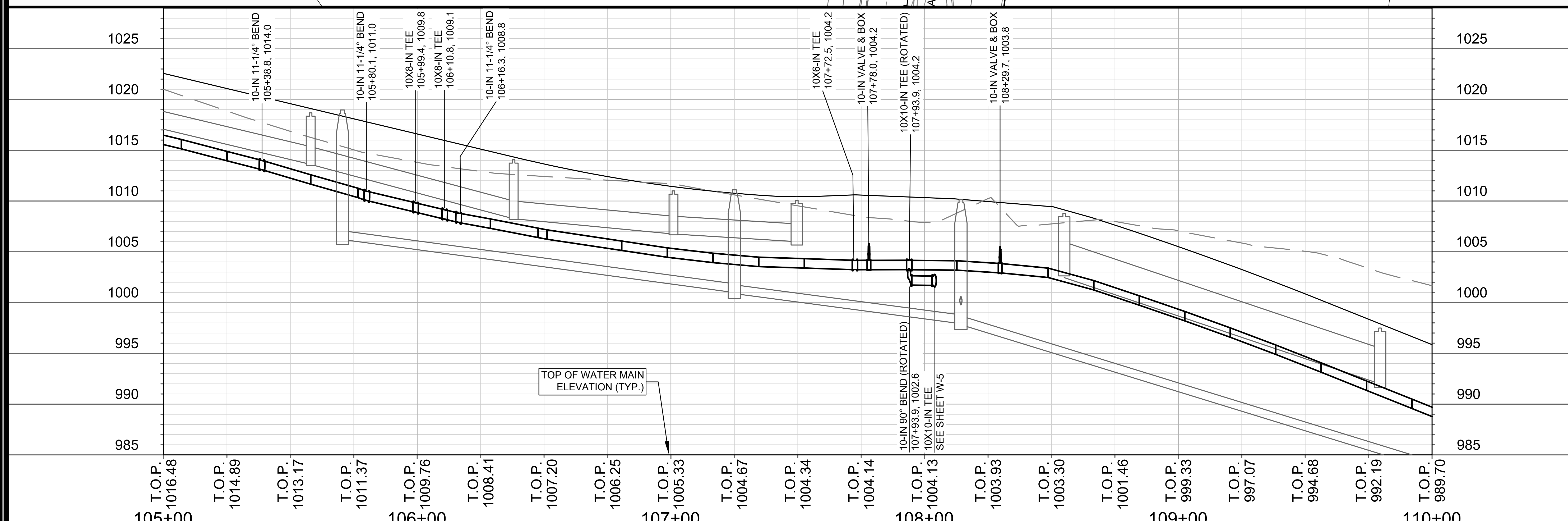
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
ELEMENT WAY WATER MAIN PLAN & PROFILE
CITY OF MADISON, WISCONSIN

CITY OF MADISON WISCONSIN

13355

W-1





SCALE: 1" = 40'
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 6/29/22

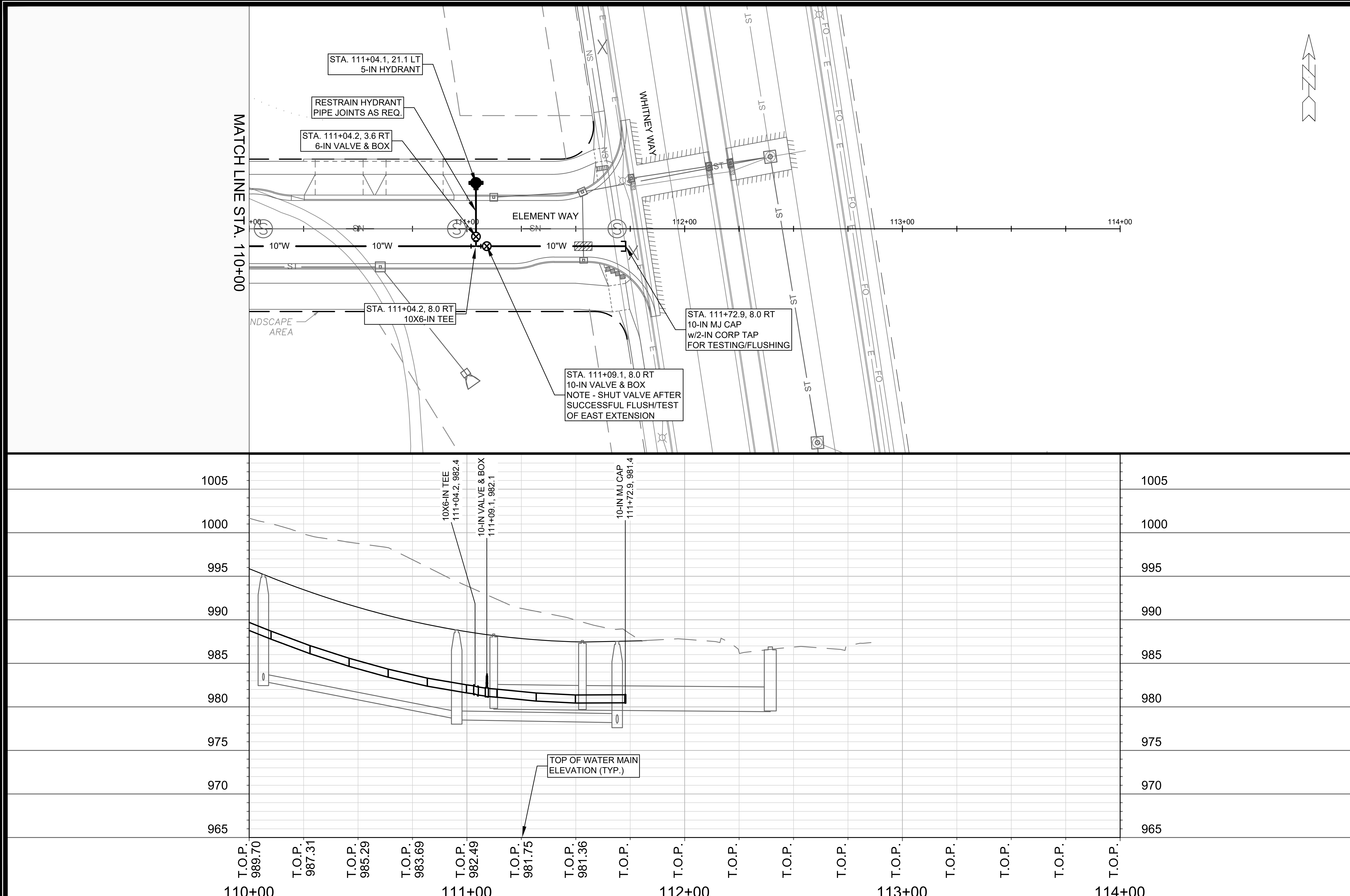
CONTRACT NO: 9003

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
ELEMENT WAY WATER MAIN PLAN & PROFILE
CITY OF MADISON, WISCONSIN

CITY OF MADISON WISCONSIN

13355

W-2



SCALE: 1" = 40'
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:6/29/22

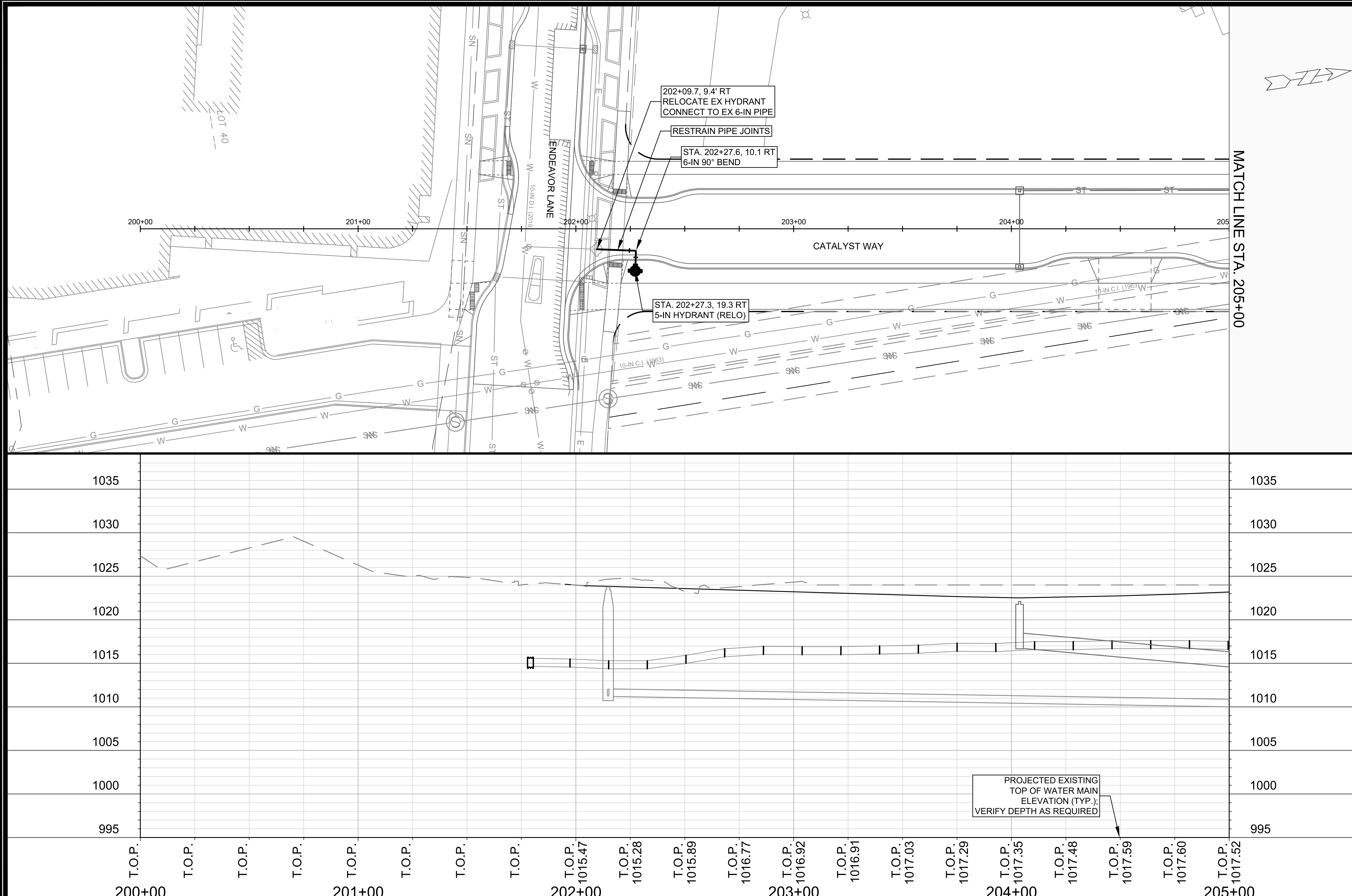
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
ELEMENT WAY WATER MAIN PLAN & PROFILE
CITY OF MADISON, WISCONSIN

CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

13355

W-3



SCALE: 1" = 40'

DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:6/29/22

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

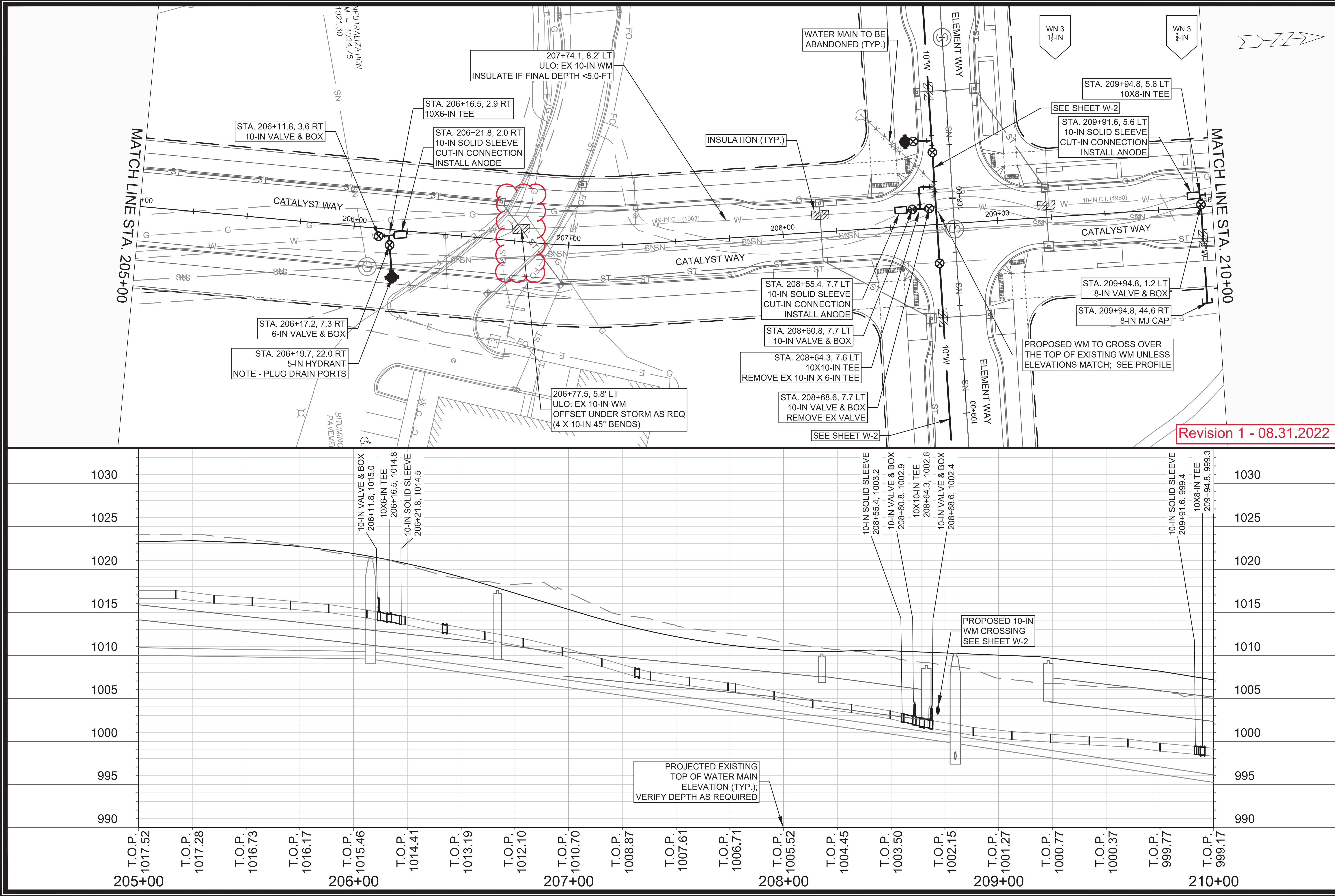
CATALYST WAY WATER MAIN PLAN & PROFILE

CITY OF MADISON, WISCONSIN

CONTRACT NO: 9003

13355

W-4



SCALE: 1" = 40'

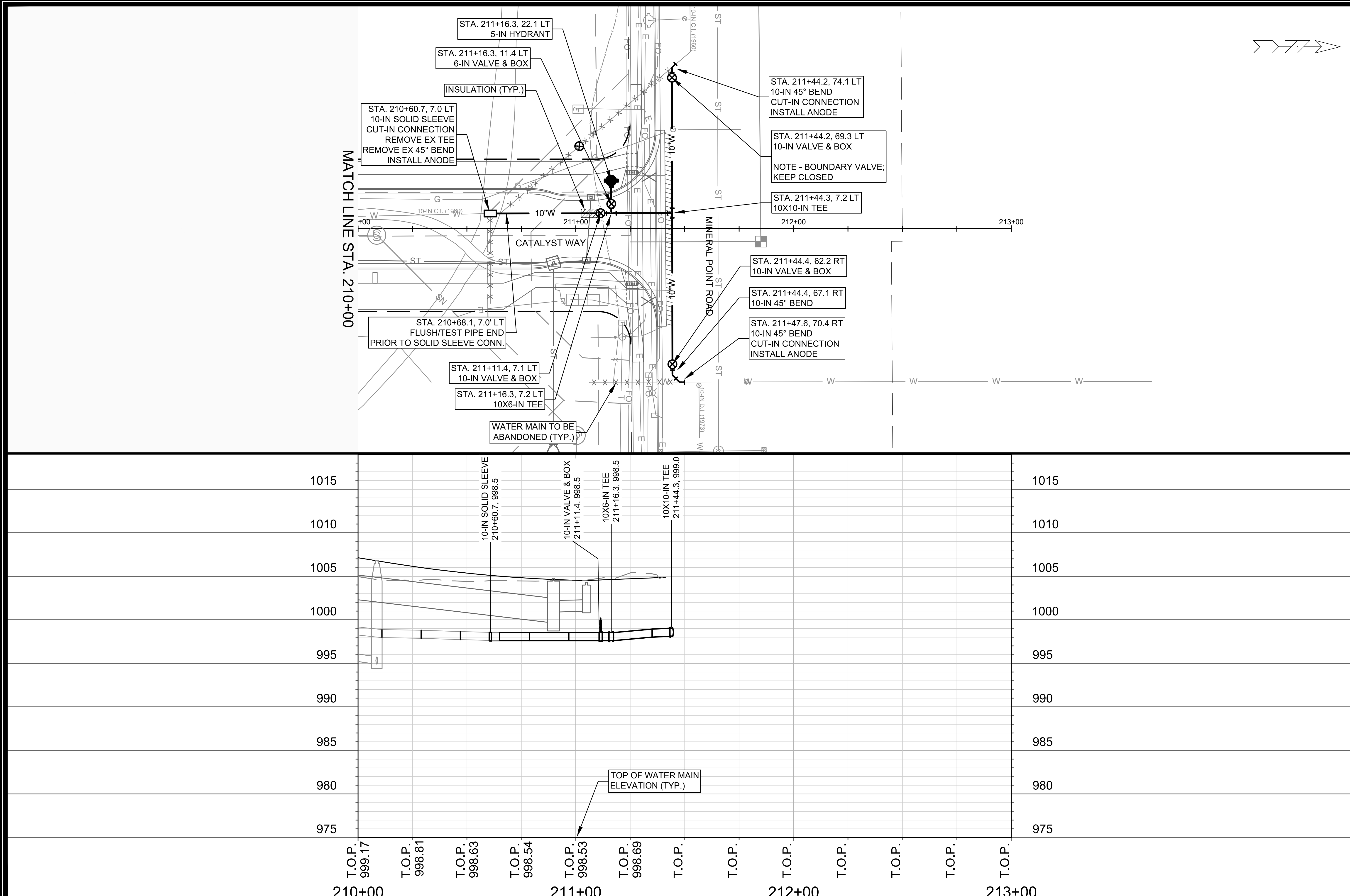
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE: 8/31/22

CONTRACT NO: 9003

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
CATALYST WAY WATER MAIN PLAN & PROFILE
CITY OF MADISON, WISCONSIN

13355

W-5



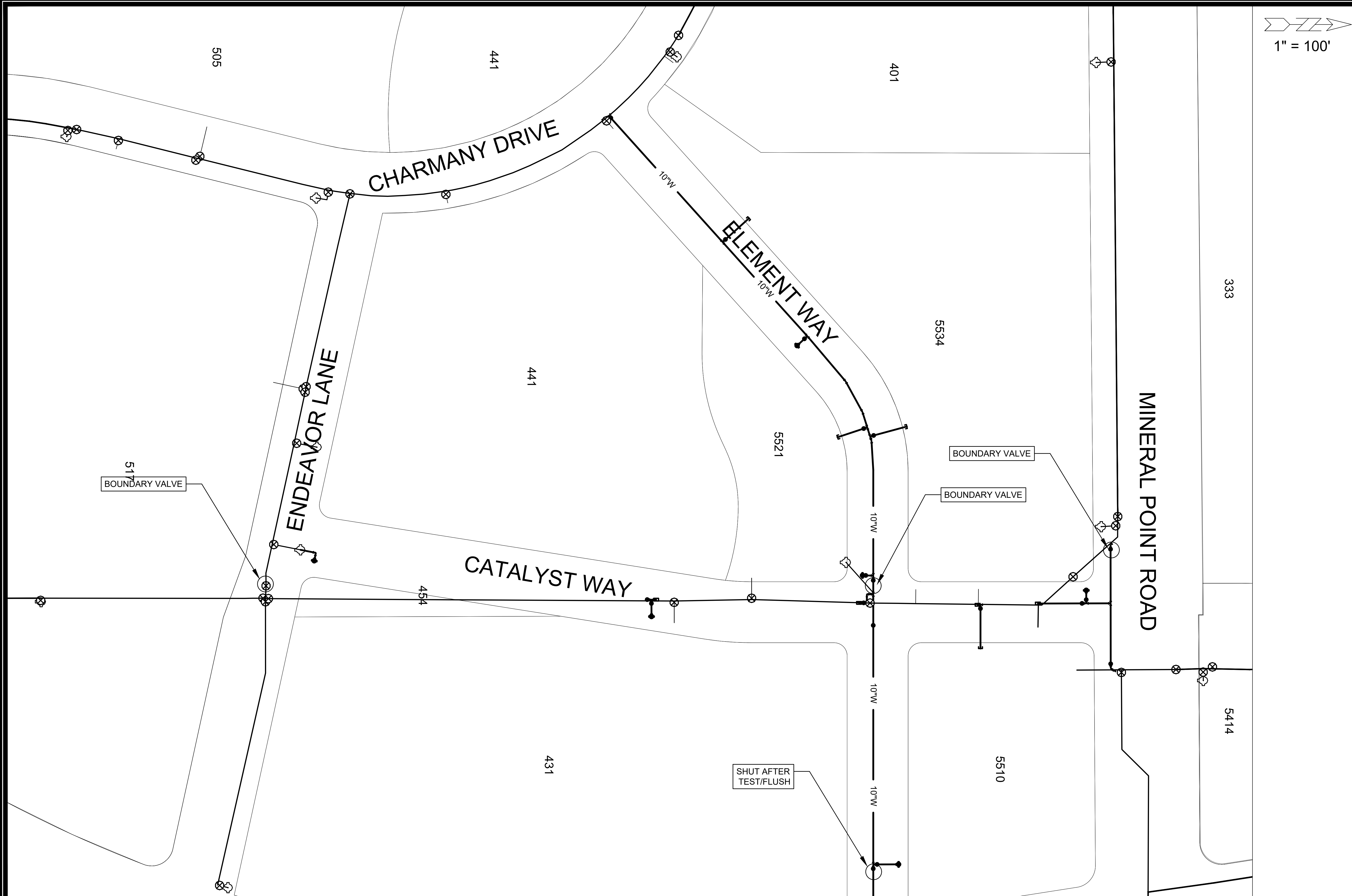
SCALE: 1" = 40'
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:6/29/22

CONTRACT NO: 9003

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
CATALYST WAY WATER MAIN PLAN & PROFILE
CITY OF MADISON, WISCONSIN

CITY OF MADISON WISCONSIN

13355
W-6



UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

WATER IMPACT PLAN

CITY OF MADISON, WISCONSIN

SCALE: 1" = 100'
DESIGNED BY: PEH
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:4/18/2022

CONTRACT NO: 9003

13355

W-7

\\GISSERVER\DATA\DESIGN\PROJECTS\13355\CAD\WATER\13355 IMPACTPLAN.DWG

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. MINIMIZE DISRUPTION OF SERVICE TO CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
3. 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
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.

Madison Water Utility

WATER UTILITY ULO SCHEDULE

ULO	UTILITY	STATION	OFFSET	SHEET
1	WATER	108+04	8.0 RT	W-2
2	WATER	207+02	8.1 LT	W-5
3	WATER	207+74	8.2 LT	W-5

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.

*ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

DESCRIPTION	QUANTITY	UNIT
6-INCH PIPE & FITTINGS	120	LNFT
8-INCH PIPE & FITTINGS	140	LNFT
10-INCH PIPE & FITTINGS	1360	LNFT
6-INCH WATER VALVE	5	EACH
8-INCH WATER VALVE	3	EACH
10-INCH WATER VALVE	11	EACH
5-INCH HYDRANT	5	EACH
6-IN MJ CAP	2	EACH
8-IN MJ CAP	3	EACH
10-IN MJ CAP	2	EACH
10-IN SOLID SLEEVE	5	EACH
6-IN 90° BEND	1	EACH
6-IN 45° BEND*	4	EACH
10-IN 90° BEND	1	EACH
10-IN 45° BEND*	7	EACH
10-IN 11-1/4° BEND	3	EACH
10X6-IN TEE	7	EACH
10X8-IN TEE	3	EACH
10X10-IN TEE	5	EACH
ANODE	7	EACH

*ESTIMATE OF REUSED AND SALVAGED MATERIALS

DESCRIPTION	QUANTITY	UNIT
5-IN HYDRANT	1	RELOCATE

** 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

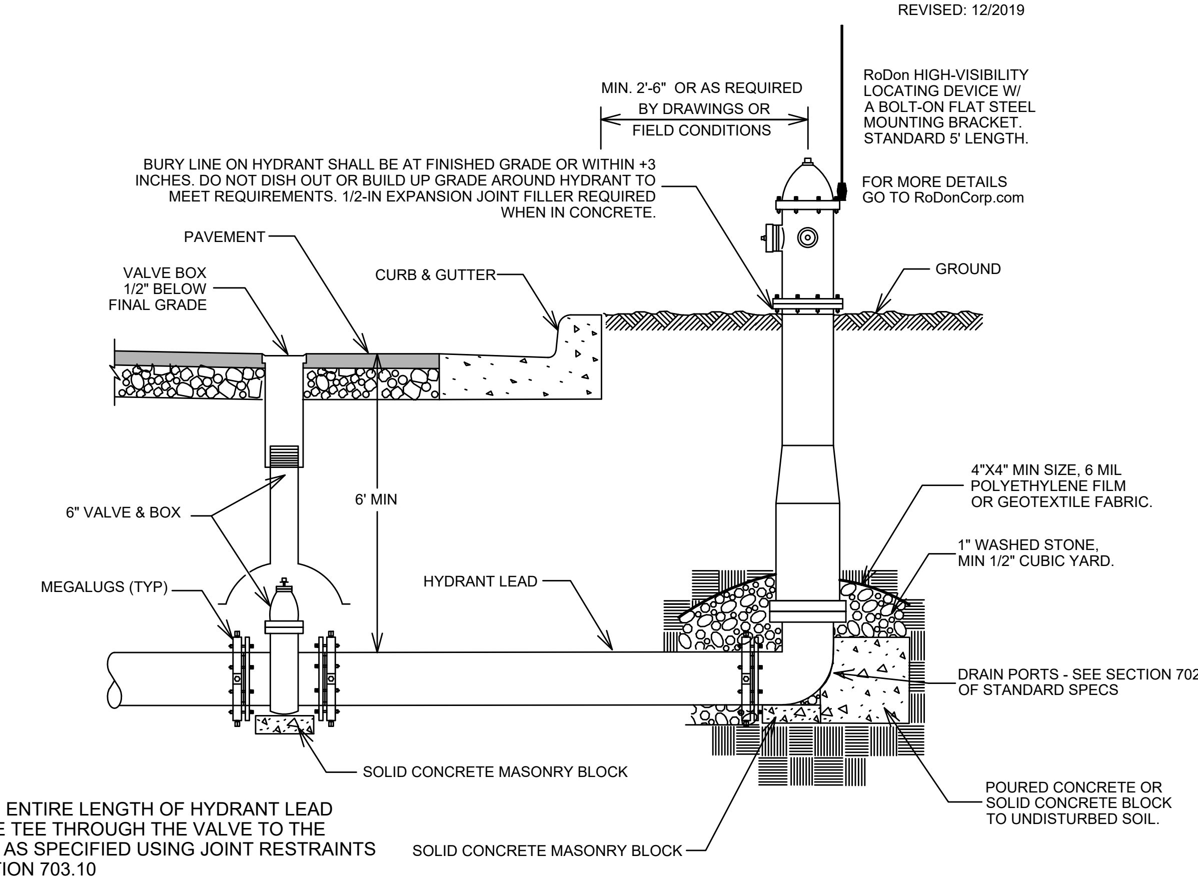
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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

MEMBER ONE CALL SYSTEMS INTERNATIONAL

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04
REVISED: 12/2019



CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

SCALE: N/A
DESIGNED BY: VALUE
MADISON WATER UTILITY
119 E OLIN AVE, MADISON, WI 53713
PRINTING DATE:5/13/22

CONTRACT NO: 9003

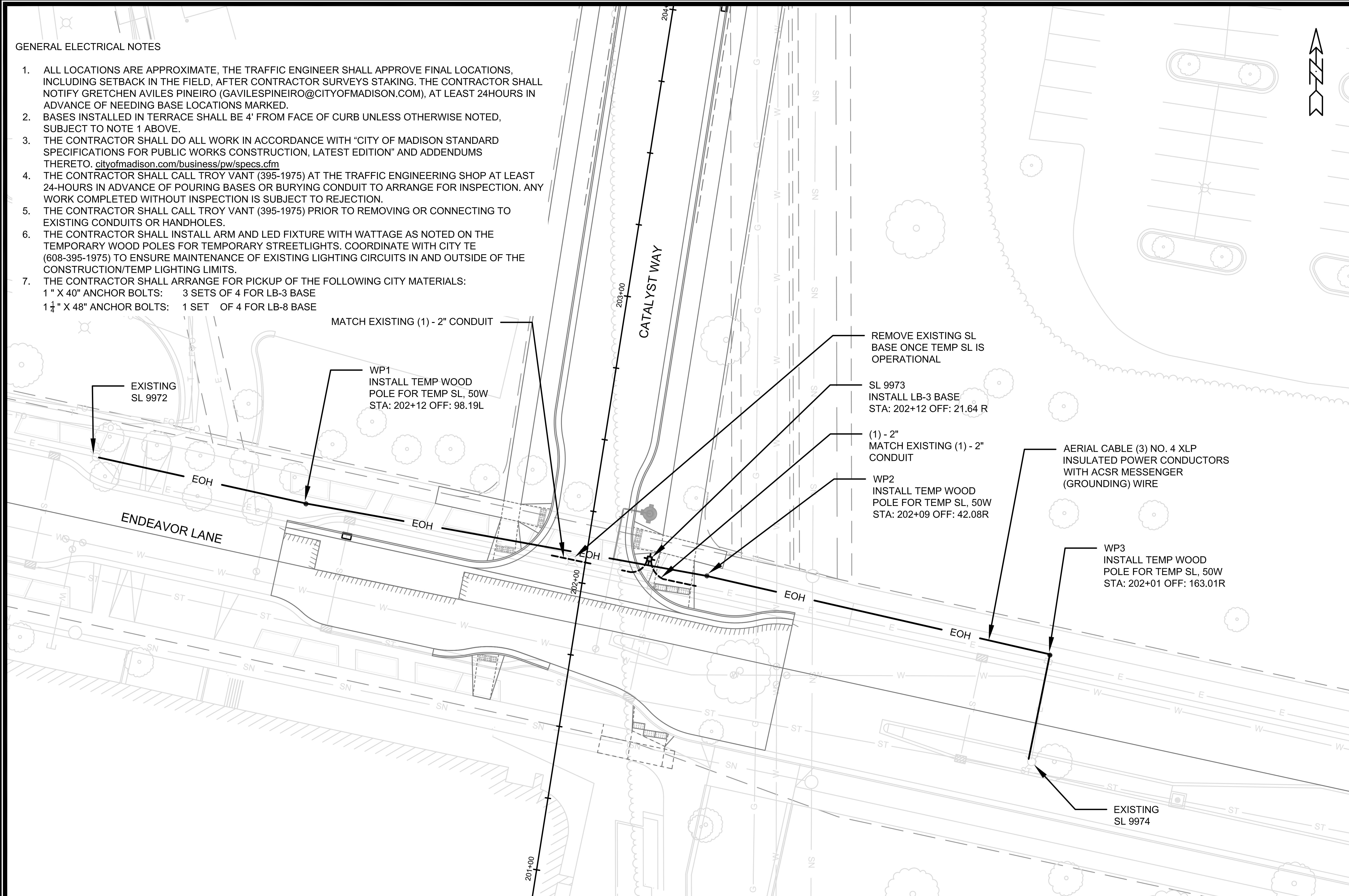
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
WATER MATERIALS & DETAILS
CITY OF MADISON, WISCONSIN

13355
W-8

\\GISSERVER\DATA\DESIGN\PROJECTS\13355\CAD\WATER\13355 MATERIALS.DWG

GENERAL ELECTRICAL NOTES

1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK IN THE FIELD, AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY GRETCHEN AVILES PINEIRO (GAVILESPINEIRO@CITYOFMADISON.COM), AT LEAST 24HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.
2. BASES INSTALLED IN TERRACE SHALL BE 4' FROM FACE OF CURB UNLESS OTHERWISE NOTED, SUBJECT TO NOTE 1 ABOVE.
3. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION" AND ADDENDUMS THERETO. cityofmadison.com/business/pw/specs.cfm
4. THE CONTRACTOR SHALL CALL TROY VANT (395-1975) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
5. THE CONTRACTOR SHALL CALL TROY VANT (395-1975) PRIOR TO REMOVING OR CONNECTING TO EXISTING CONDUITS OR HANDHOLES.
6. THE CONTRACTOR SHALL INSTALL ARM AND LED FIXTURE WITH WATTAGE AS NOTED ON THE TEMPORARY WOOD POLES FOR TEMPORARY STREETLIGHTS. COORDINATE WITH CITY TE (608-395-1975) TO ENSURE MAINTENANCE OF EXISTING LIGHTING CIRCUITS IN AND OUTSIDE OF THE CONSTRUCTION/TEMP LIGHTING LIMITS.
7. THE CONTRACTOR SHALL ARRANGE FOR PICKUP OF THE FOLLOWING CITY MATERIALS:
   1 " X 40" ANCHOR BOLTS: 3 SETS OF 4 FOR LB-3 BASE
   $1\frac{1}{4}$" X 48" ANCHOR BOLTS: 1 SET OF 4 FOR LB-8 BASE



MARK | REVISION | DATE | BY

Designed By: GMA | Date: 6/30/2022 4:13 PM | Scale: 1"=30' | E-1

13355

13355

MADISON, WI

9003

ELECTRICAL PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

CONTRACT NO:

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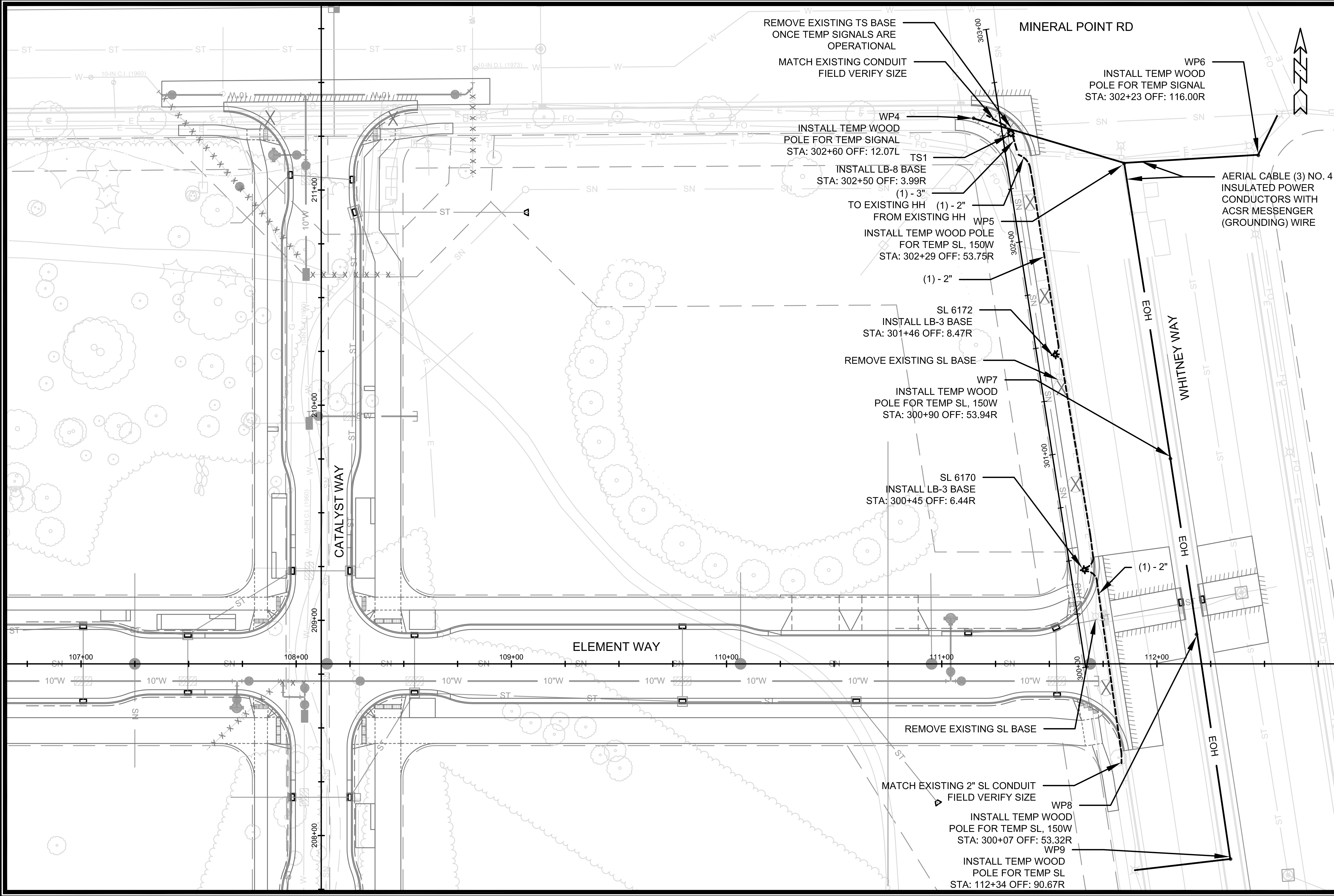
CITY OF MADISON WISCONSIN

13355

E-1



MARK | REVISION | DATE | BY

Designed By: GMA Date: 6/30/2022 4:12 PM Scale: 1"=40'

13355

E-2

ELECTRICAL PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

13355

MADISON, WI

CONTRACT NO: 9003

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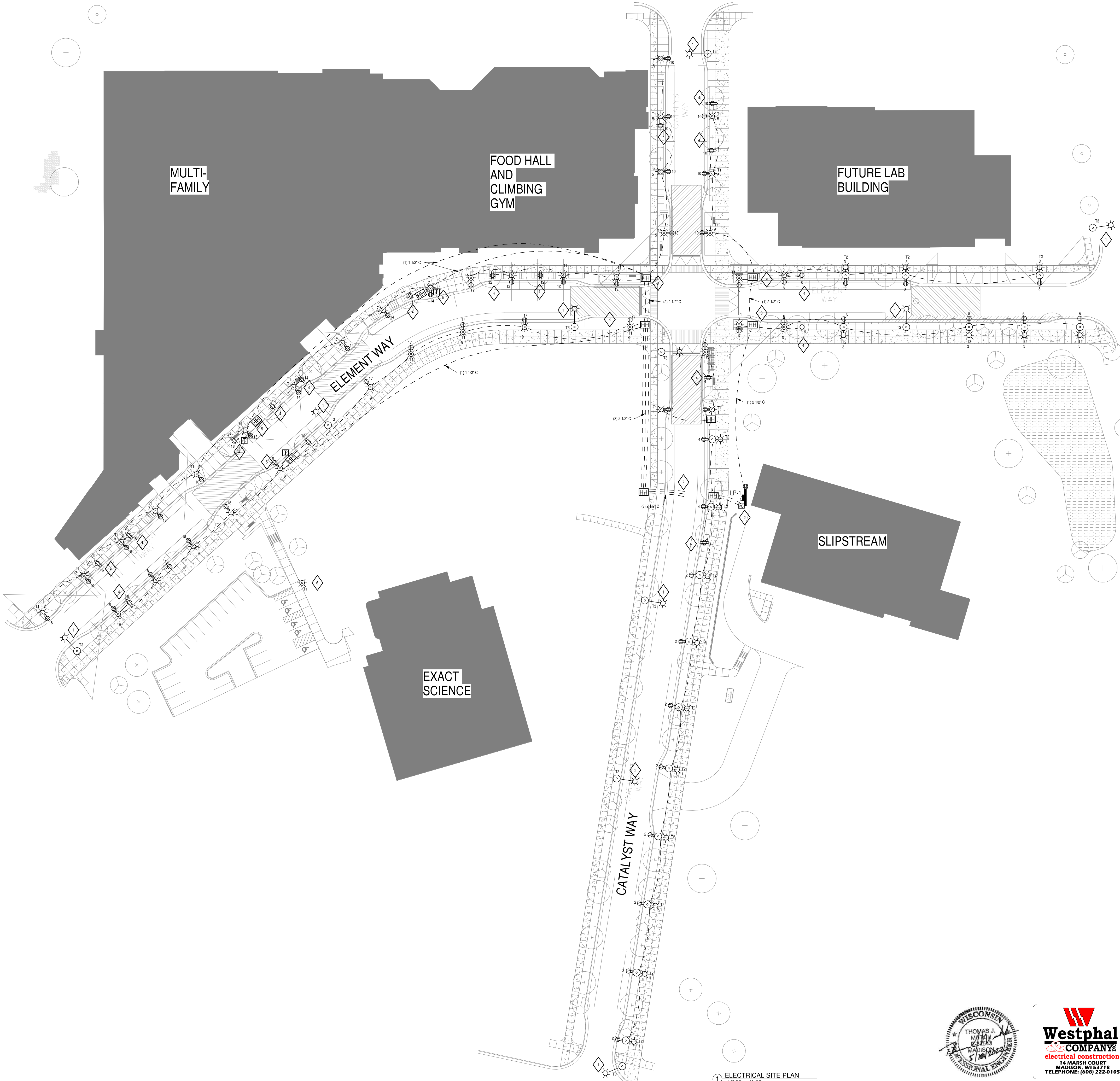
CITY OF MADISON WISCONSIN

13355

E-2



1 ELECTRICAL SITE PLAN
1/32" = 1'-0"

GENERAL NOTES

1. ALL CONDUIT, WIRING, AND CONTROLS PER CITY OF MADISON STANDARD SPECIFICATIONS.

2. PROVIDE DIGITAL ASTRONOMIC TIME CLOCK CONTROL FOR RECEPTACLES WITH RELAY QUANTITY AS REQUIRED.

3. PROVIDE DIGITAL ASTRONOMIC TIME CLOCK CONTROL WITH PHOTOCELL FOR LIGHT TYPE 1 AND 2 FIXTURES WITH RELAY QUANTITY AS REQUIRED.

4. PROVIDE ELECTRICAL EQUIPMENT ENCLOSURE WITH 200A, 120/240V PANELBOARD AND LIGHTING CONTROLS AS A SINGLE UL LISTED ASSEMBLY.

5. LIMIT VOLTAGE DROP TO 3% FROM PANEL.

6. PROVIDE (2)#8, #10G FOR ALL LIGHTING CIRCUITS.

7. ALL RECEPTACLE CIRCUITS SHALL BE (2) #4, #6G EXCEPT FOR CIRCUIT #4. CIRCUIT #4 SHALL BE (2)#6, #8G

8. CONDUITS SHALL BE 1" IN SIZE UNLESS NOTED OTHERWISE

PLAN NOTES

1. CITY OF MADISON LIGHT POLE. ALL WORK ASSOCIATTED WITH LIGHT POLE (LIGHT POLE, BASE,CONDUIT, WIRING, TRENCHING ETC.) TO BE PREFORMED BY MG&E AND CITY OF MADISON.

2. NEW ELECTRICAL SERVICE CONSISTING OF A UTILITY METER SOCKET, PANELBOARD WITH INTEGRATED LIGHTING CONTROLS. PANELBOARD SHALL BE EATON POW-R-COMMAN PANEL OR EQUAL.

3. PROVIDE HANDHOLE IN GREEN SPACE BETWEEN CURB AND SIDEWALK. HANDHOLE SHALL BE QUAZITE CAT.# PC1212Z80124 OR EQUAL.

4. PROVIDE WEATHERPROOF DUPLEX RECEPTACLE WITH METAL WHILE-IN-USE COVER AS INDICATED. PROVIDE ATTACHMENT TO PLANTER WALL/CURB, TREE GRATE, OR STAINLESS STEEL STAKE FOR EACH BOX. LOCATE SO NOT IN LINE OF SIGHT FROM WALKWAY. PROVIDE RGS CONDUIT WHERE EXPOSED.

5. PROVIDE 1.5kVA, 110V-120V BUCK BOOST TRANSFORMER AS REQUIRED TO MAINTAIN VOLTAGE DROP. COORDINATE TRANSFORMER LOCATION WITH ARCHITECT.

6. LIGHT POLE TO BE FED FROM EXACT SCIENCE BUILDING SITE LIGHTING CIRCUIT.

7. CONTINUED TO PANEL LP-1

ELEMENT DISTRICT - SITE IMPROVEMENTS

510 CHARMANY DRIVE, SUITE 250
MADISON, WI 53719

.\Tryba_Logo_color.png

SMITHGROUP
44 E MIFFLIN STREET
SUITE #500
MADISON, WI 53703
608.251.1177
smithgroup.com

STAMP:

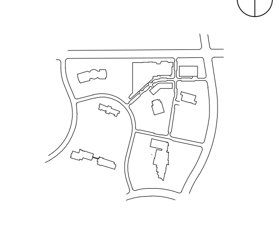
NOT FOR CONSTRUCTION
FOR GMP ONLY

ISSUE

NO.	DATE	DESCRIPTION
	7/9/2021	CONSTRUCTION DOCUMENTS FOR GMP
1	1/6/2022	CDs FOR GMP - ADDENDUM 1
2	4/11/2022	LIGHTING COORDINATION

KEY PLAN

PROJECT NORTH



SCALE: 1" = 40'

Westphal & COMPANY
electrical construction
14 MARSH COURT
MADISON, WI 53718
TELEPHONE: (608) 222-0105

PROJECT NO. 12748

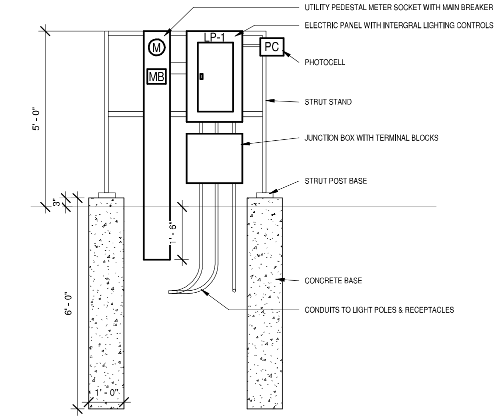
DATE: 6/30/2021

ELEMENT DISTRICT - SITE IMPROVEMENTS

E1.02

DRAWING TITLE:
ELECTRICAL SITE PLAN

FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	WATTAGE	VOLTAGE	LAMPING	DIMMING	COLOR/FINISH	COMMENTS
T1	14' MODULAR LIGHT COLUMN LIGHT POLE	HESS	CE/180/14-AR800/1LVC/WW-T3-UNV-**-CRO2/11-GFCI	POLE	37W	120V	LED, 3356 LUMENS, 3000K	NONE	TBD	EXTERNAL FLANGE, GFCI RECEPTACLE
T2	16' LIGHT POLE AND FIXTURE	BEGA	77025-K3-**	POLE	20W	120V	LED, 2090 LUMENS, 3000K	NONE	TBD	EXTERNAL FLANGE, GFCI RECEPTACLE
T3	CITY OF MADISON LIGHT POLE									



1 ELECTRICAL SERVICE DETAIL
1/2" = 1'-0"

Panel: LP-1

Location: SLIPSTREAM ELEC. SERVICE
Supply From: UTILITY
Mounting: SURFACE
Enclosure: TYPE 3R

Volts: 120/240 Single
Phases: 1
Wires: 3

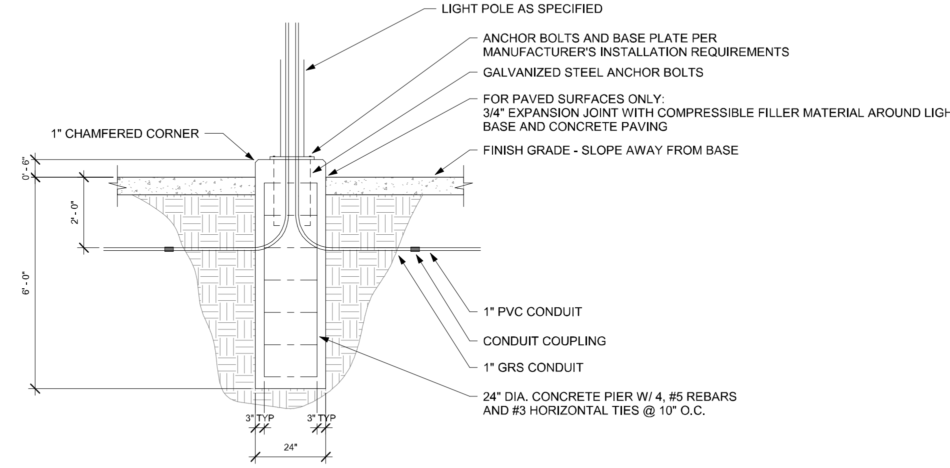
A.I.C. Rating: 65,000
Mains Type: MLO
MCB Ampacity: N/A
Min Bus Ampacity: 200 AMPS

Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	SOUTH CATALYST WAY LTG	20 A	1	5 A	12 A			1	20 A	SOUTH CATALYST WAY REC...	2
3	EAST ELEMENT WAY LTG	20 A	1			3 A	11 A	1	20 A	SOUTH CATALYST WAY REC...	4
5	NORTH CATALYST WAY LTG	20 A	1	2 A	11 A			1	20 A	EAST ELEMENTS WAY RECP S	6
7	WEST ELEMENT WAY LTG N	20 A	1			4 A	9 A	1	20 A	EAST ELEMENTS WAY RECP N	8
9	WEST ELEMENT WAY LTG S	20 A	1	3 A	15 A			1	20 A	NORTH CATALYST WAY RECP	10
11							9 A	1	20 A	WEST ELEMENTS WAY RECP N	12
13					11 A			1	20 A	WEST ELEMENTS WAY RECP N	14
15							14 A	1	20 A	WEST ELEMENTS WAY RECP N	16
17	WEST ELEMENTS WAY RECP S	20 A	1	8 A	12 A			1	20 A	WEST ELEMENTS WAY RECP S	18
19											20
21											22
23											24
			Total Load:	9316 VA		5899 VA					
			Total Amps:	78 A		49 A					

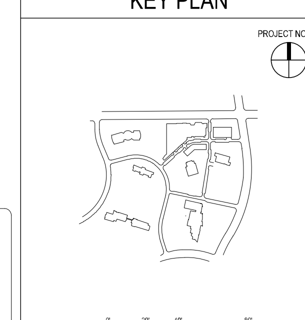
Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Receptacles	13140 VA	88.05%	11570 VA		
Lighting	2075 VA	125.00%	2594 VA	Total Conn. Load:	15215 VA
				Total Est. Demand:	14164 VA
				Total Conn.:	63 A
				Total Est. Demand:	59 A



2 SITE LIGHT STANDARD BASE
1/2" = 1'-0"

KEY PLAN



SCALE: 1" = 40'

Westphal & COMPANY INC.
electrical construction
14 MARSH COURT
MADISON, WI 53718
TELEPHONE: (608) 222-0105

ELEMENT DISTRICT - SITE IMPROVEMENTS

510 CHARMANY DRIVE, SUITE 250
MADISON, WI 53719

.\Tryba_Logo_color.png

SMITHGROUP
44 E MIFFLIN STREET
SUITE #500
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608.251.1177
smithgroup.com

STAMP:

NOT FOR CONSTRUCTION
FOR GMP ONLY

ISSUE

NO.	DATE	DESCRIPTION
	7/9/2021	CONSTRUCTION DOCUMENTS FOR GMP
1	1/6/2022	CDs FOR GMP - ADDENDUM 1
2	4/11/2022	LIGHTING COORDINATION

PROJECT NO.
12748
DATE:
6/30/2021

ELEMENT DISTRICT - SITE IMPROVEMENTS

E1.03

DRAWING TITLE:
ELECTRICAL SITE PLAN DETAILS

LEGEND

AFM	MORGAN RED MAPLE
AGA	AUTUMN BRILLIANCE SERVICEBERRY
CCI	THORNLESS COCKSPUR HAWTHORN
COC	CHICAGOLAND HACKBERRY
GAG	AUTUMN GOLD GINGKO
GBP	PRINCETON SENTRY GINGKO
GDE	PRAIRIE TITAN KENTUCKY COFFEETREE
GTD	STREET KEEPER HONEYLOCUST
GTS	SKYLINE HONEYLOCUST
MJ	RED JEWEL CRABAPPLE
MP	PRAIRIE JEWEL CRABAPPLE
OV	AMERICAN HOPHORNBEAM
QB	SWAMP WHITE OAK
QM	BUR OAK
QR	RED OAK
UNH	NEW HORIZON ELM
X	CLEARING & GRUBBING

NOTES

1. CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR, OR IMPAIR THE HEALTH OF ANY STREET TREE. CONTRACTOR SHALL OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREE(S). THIS MAY REQUIRE USING SMALLER EQUIPMENT AND LOADING AND UNLOADING MATERIALS IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES (EITHER ABOVE OR BELOW GROUND) SHALL BE REPORTED IMMEDIATELY TO CITY FORESTRY AT 266-4816. PENALTIES AND REMEDIATION SHALL BE REQUIRED.
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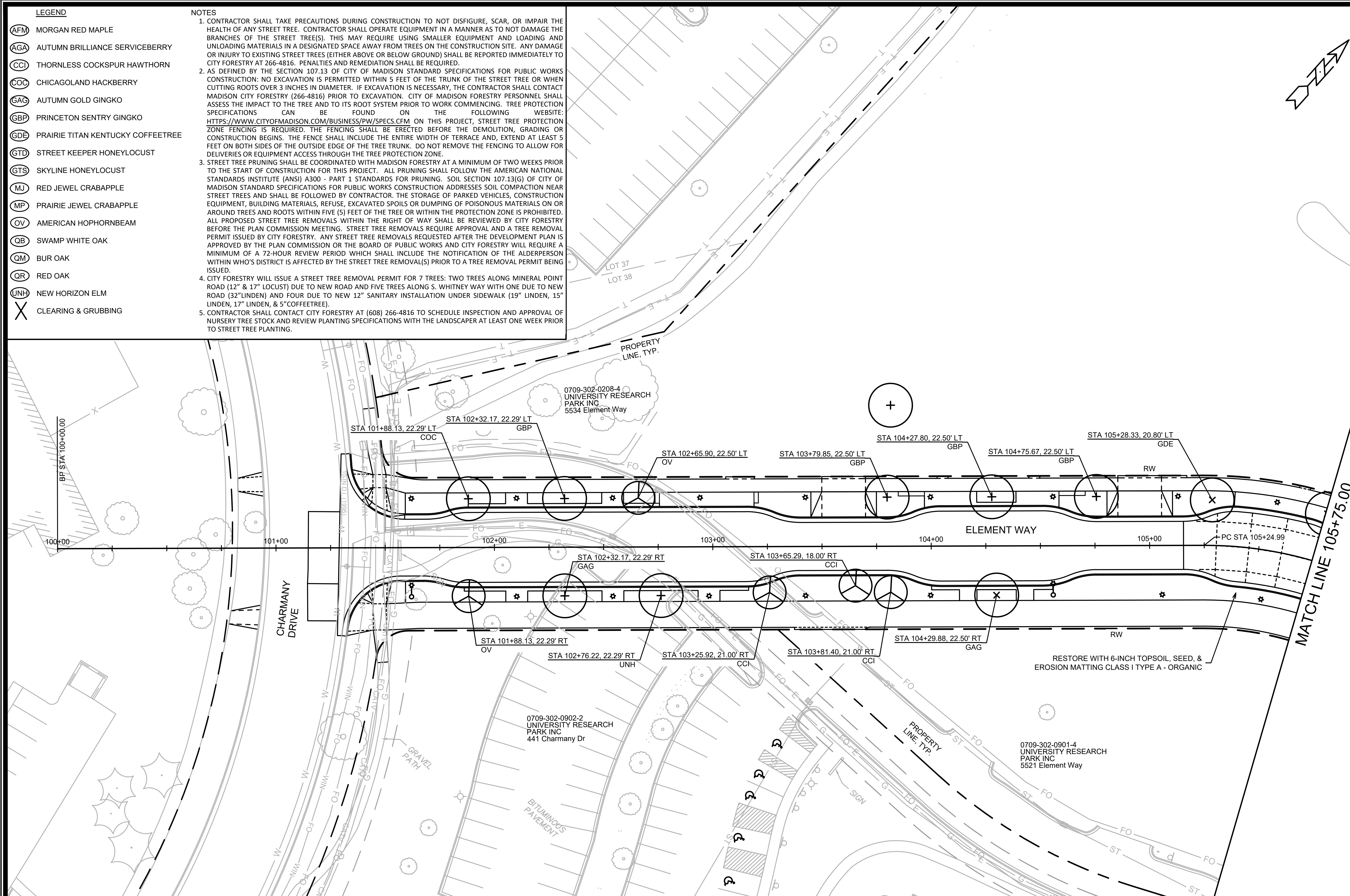

ELEMENT WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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13355

MADISON, WI

CONTRACT NO: 9003

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13355 | L-1

CITY OF MADISON WISCONSIN

13355

L-1

LEGEND

- AFM — MORGAN RED MAPLE
- AGA — AUTUMN BRILLIANCE SERVICEBERRY
- CCI — THORNLESS COCKSPUR HAWTHORN
- COC — CHICAGOLAND HACKBERRY
- GAG — AUTUMN GOLD GINGKO
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- GTD — STREET KEEPER HONEYLOCUST
- GTS — SKYLINE HONEYLOCUST
- MJ — RED JEWEL CRABAPPLE
- MP — PRAIRIE JEWEL CRABAPPLE
- OV — AMERICAN HOPHORNBEAM
- QB — SWAMP WHITE OAK
- QM — BUR OAK
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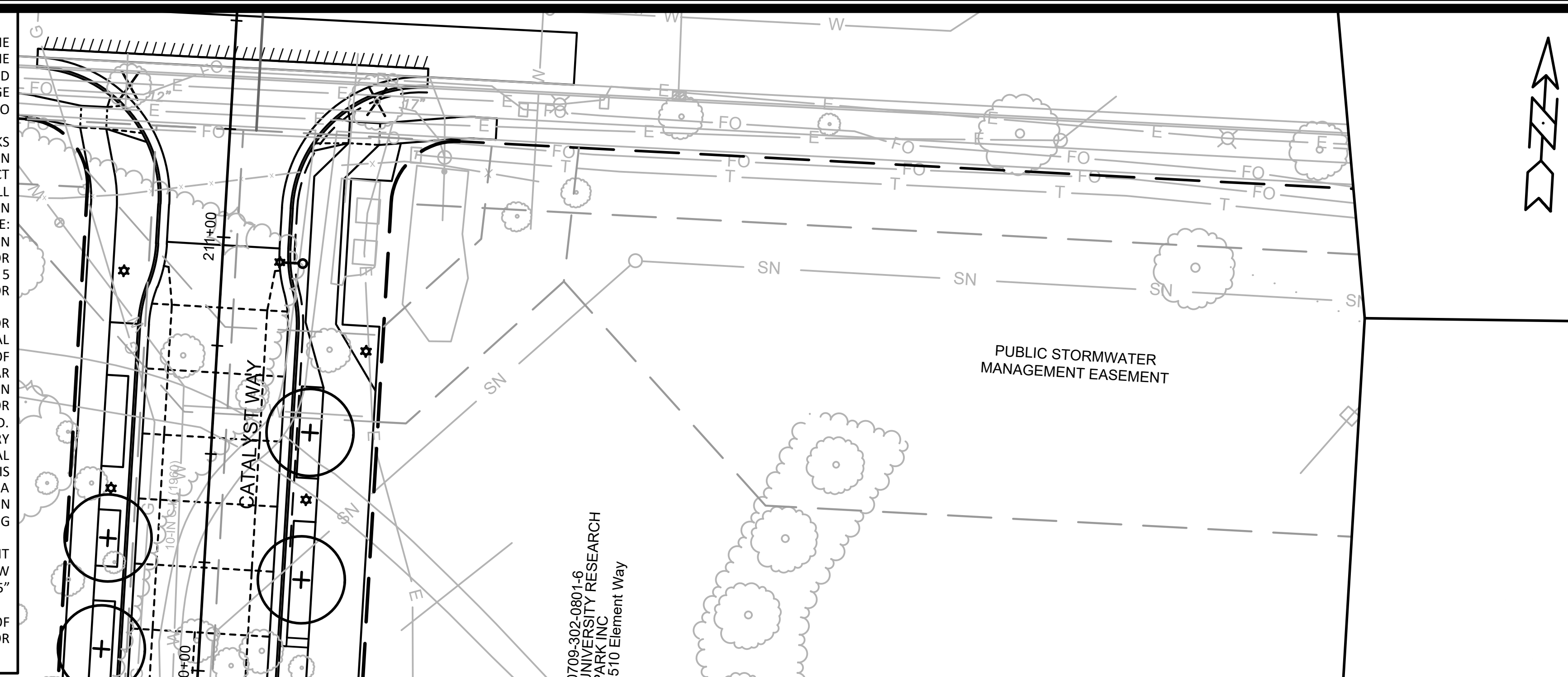

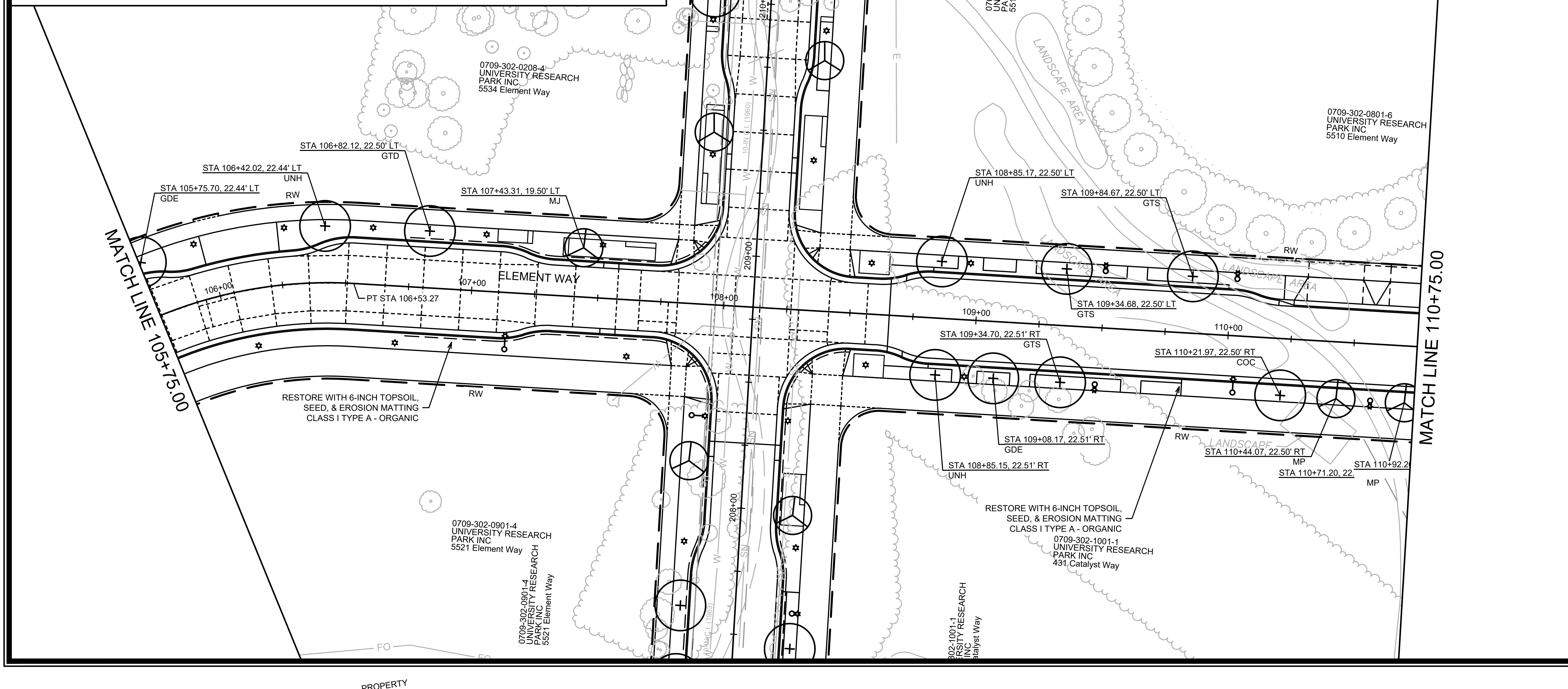

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13355

MADISON, WI

CONTRACT NO: 9003

ELEMENT WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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CITY OF MADISON WISCONSIN

13355

L-2

LEGEND

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CCI	THORNLESS COCKSPUR HAWTHORN
COC	CHICAGOLAND HACKBERRY
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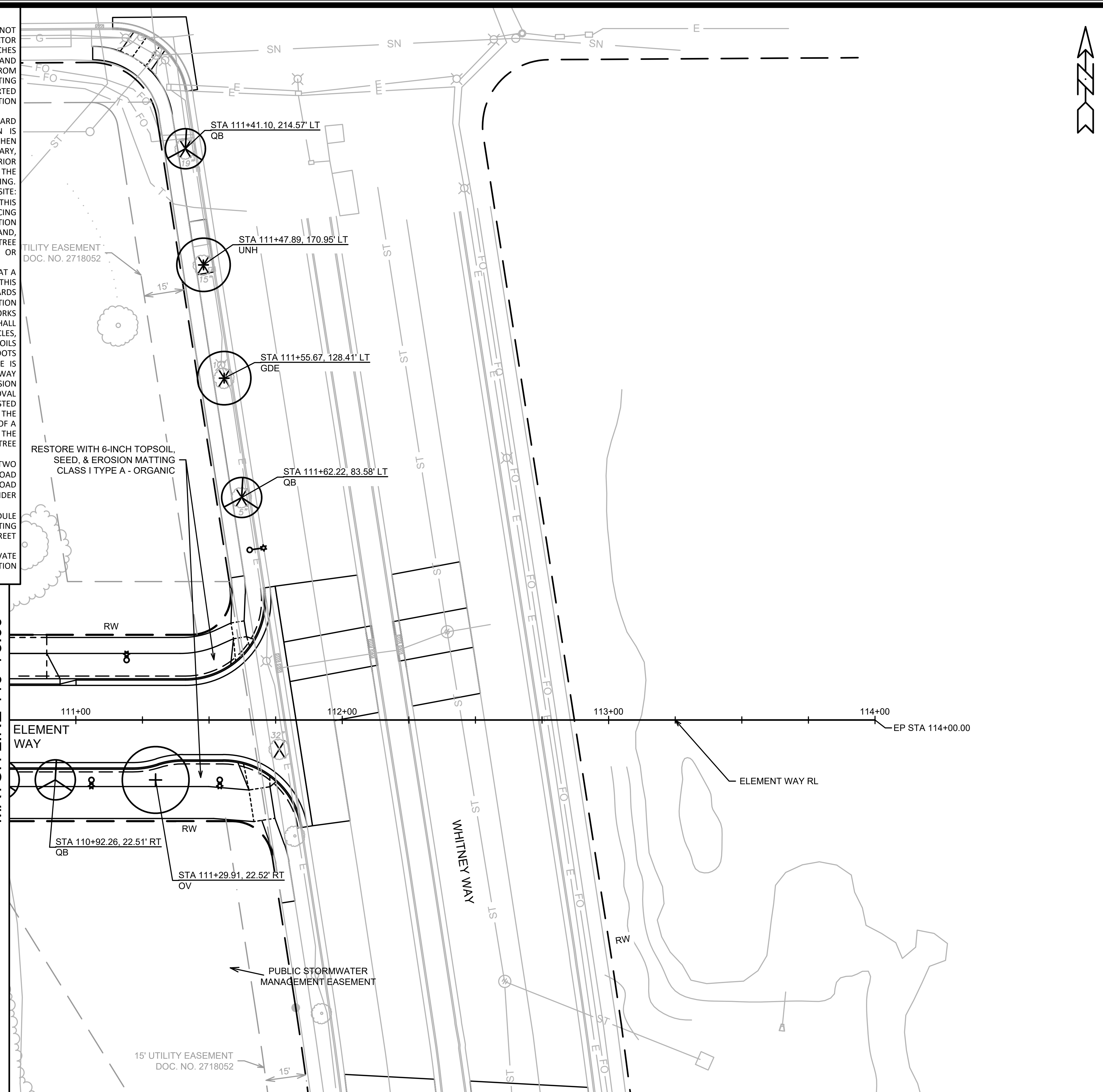

ELEMENT WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

13355

MADISON, WI

CONTRACT NO: 9003

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CITY OF MADISON WISCONSIN

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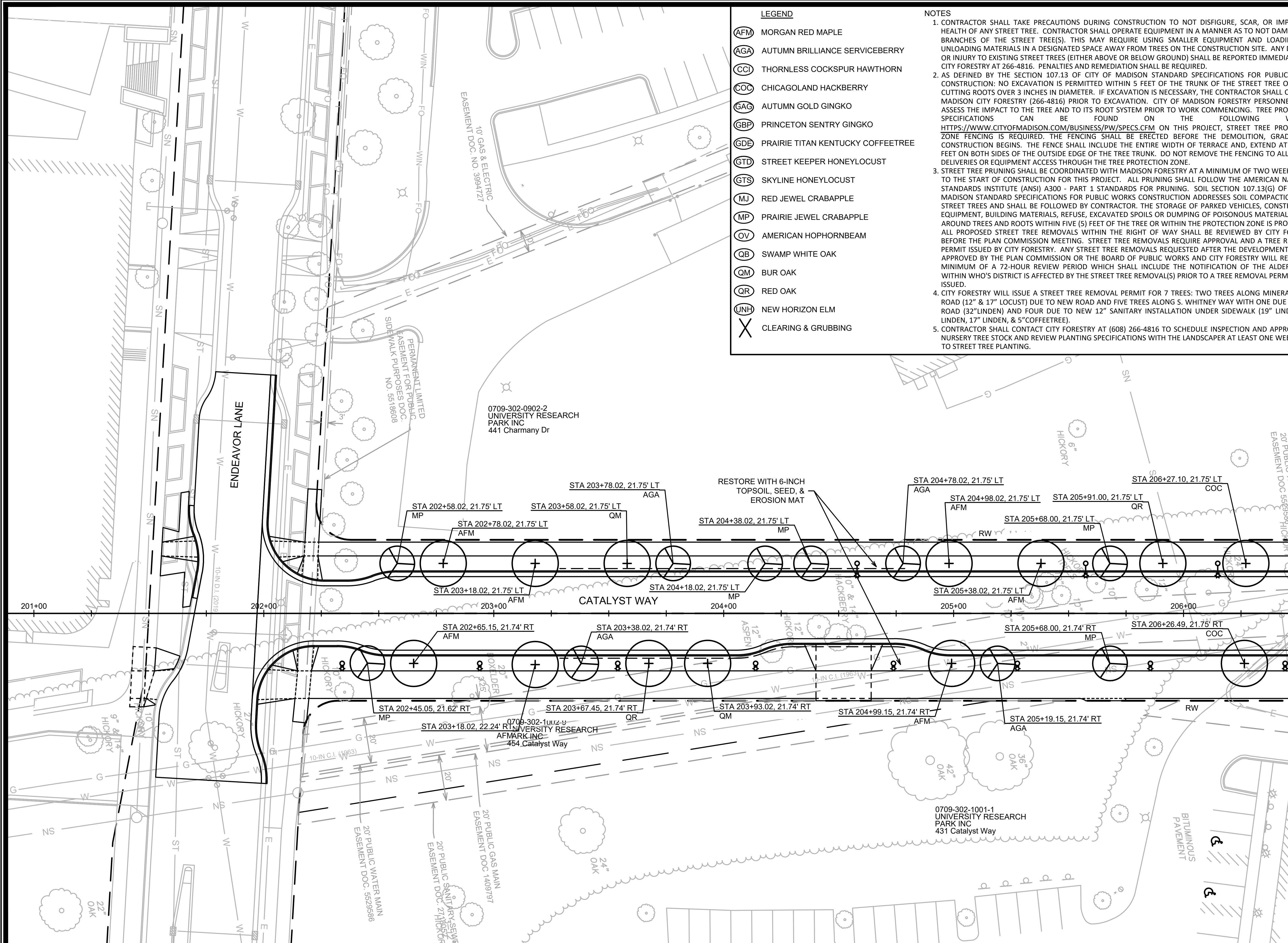

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MADISON, WI

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CATALYST WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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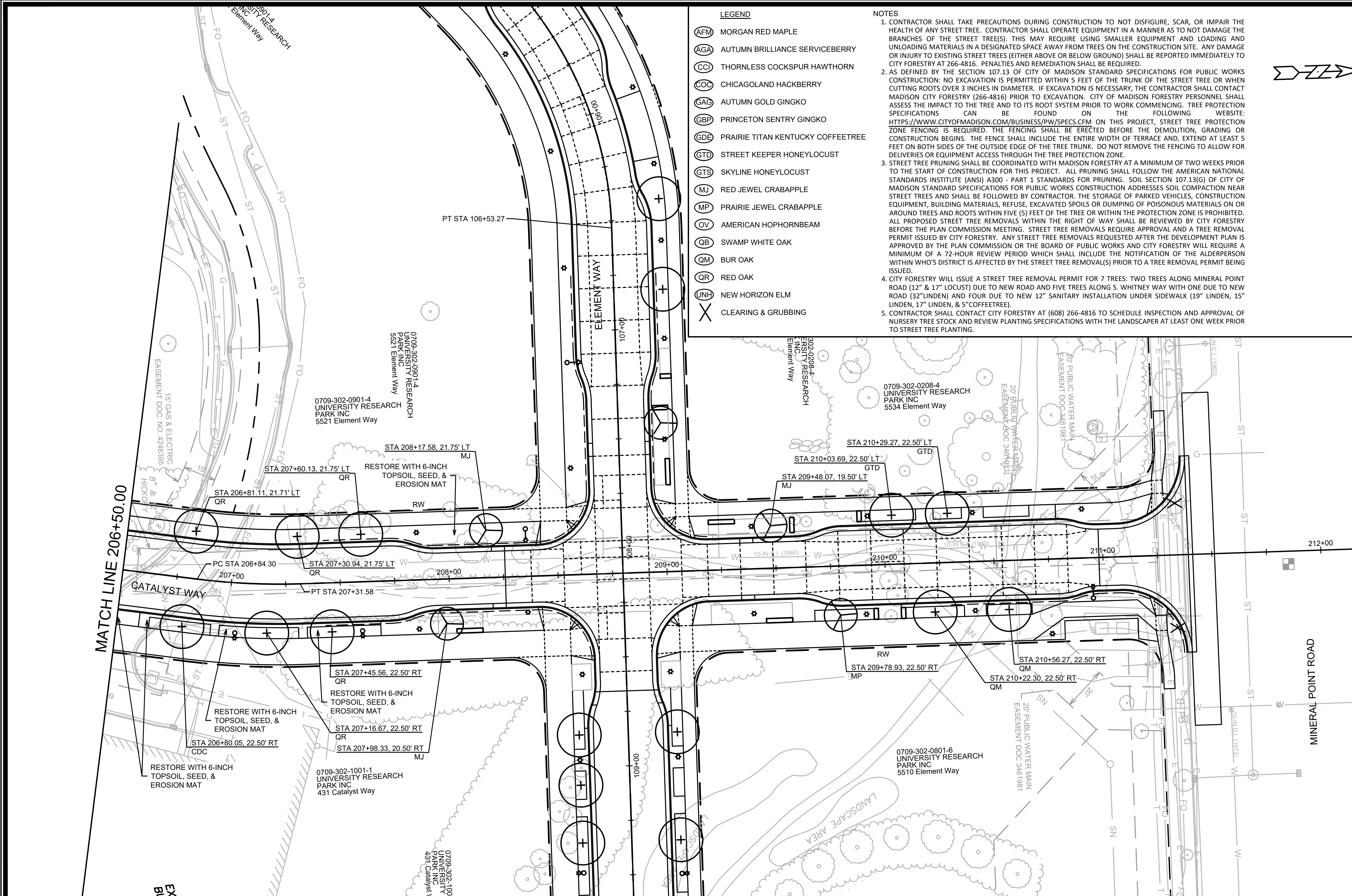

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Designed By: AJZ | Date: 6/30/2022 3:42 PM | Scale: 1" = 40'

13355 | L-5

CATALYST WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

13355

MADISON, WI

CONTRACT NO: 9003

M:\DESIGN\Projects\13355\CAD\Streets\13355EN-Landscaping CatalystWay.dwg

CITY OF MADISON WISCONSIN

13355

L-5

LEGEND

- PROPERTY LINE
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT (1 / L5.01)
- VEHICULAR CONCRETE PAVEMENT
- CURB RAMP
- CONCRETE UNIT PAVERS (1 / L5.02)
- CURB AND GUTTER
- CONTROL JOINT (1 / L5.01)
- TRASH RECEPTACLE
- RECYCLING RECEPTACLE
- TW 861.50 — TOP OF WALL ELEVATION
- BW 861.50 — BOTTOM OF WALL ELEVATION
- PA — PLANTING AREA
- EXISTING TREE TO REMAIN
- PROPOSED SHADE TREE
- PROPOSED ORNAMENTAL TREE
- LIGHT TYPE 1 - PEDESTRIAN
- LIGHT TYPE 2 - MULTIUSE TRAIL
- LIGHT TYPE 3 - STREET LIGHT (FINAL LOCATIONS PER MG+E)

KEYED NOTES

- BIKE RACKS (4 / L5.01)
- B CYCLE STATION - BY OTHERS
- STEEL PLANTER WALL (1 / L5.05) (1 / L5.06)
- STONE SEATWALL (1 / L5.08)
- STONE SEATWALL WITH BENCH (1 / L5.07)
- TREE GRATE (1 / L5.03) (1 / L5.04)

GENERAL NOTES

1. L-SERIES SHEETS INCLUDE LAYOUT, MATERIAL, AND DETAIL INFORMATION FOR IMPROVEMENTS BETWEEN BACK-OF-CURB AND EDGE-OF-ROW. REFER TO CITY OF MADISON SHEETS FOR VEHICULAR IMPROVEMENTS AND UTILITIES WITHIN THE RIGHT-OF-WAY.
2. IMPROVEMENTS OUTSIDE OF THE PUBLIC WAY ARE INDICATED FOR REFERENCE ONLY.
3. REFER TO CITY OF MADISON SHEETS FOR LOCATIONS OF IMPROVEMENTS RELATIVE TO STATION LINES.
4. CURB RAMPS AND DETECTABLE WARNING FIELDS PER CITY OF MADISON STANDARD DETAIL DRAWINGS AND SPECIFICATIONS.
5. PROVIDE EXPANSION JOINTS PER CITY OF MADISON STANDARD SPECIFICATIONS. PROVIDE JOINTING PLAN FOR REVIEW AND APPROVAL
6. SEE 1/5.09 FOR TYPE 1 AND TYPE 2 LIGHT POLE FOOTING.

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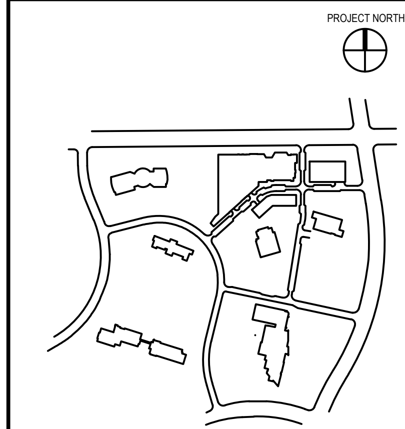
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN



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LEGEND AND NOTES
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12748
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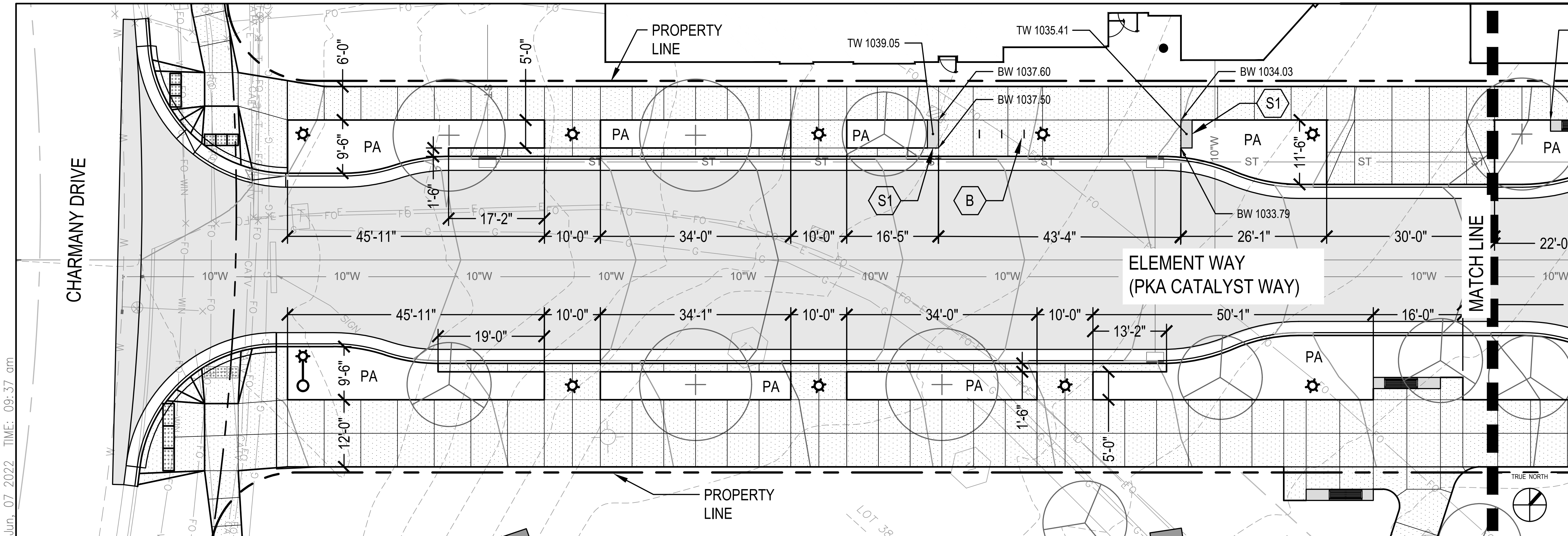
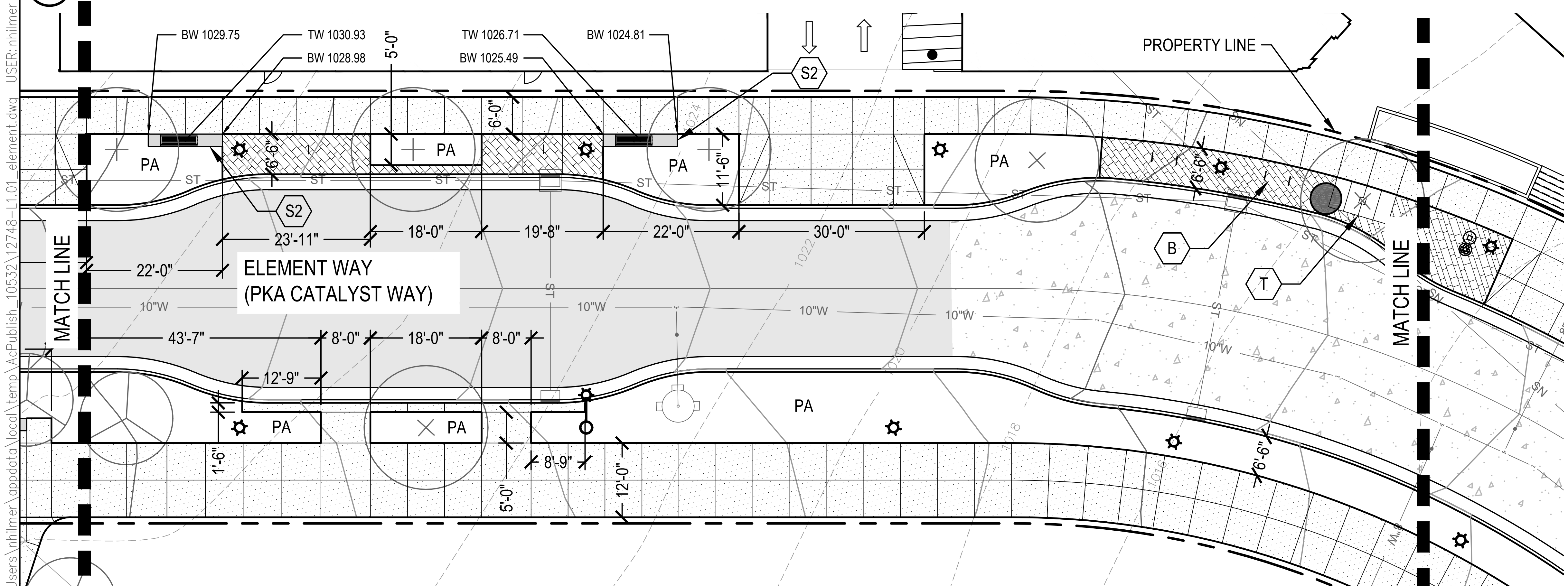


1 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 1

SCALE: 1" = 20'-0"



2 ELEMENT WAY - WEST LAYOUT AND MATERIALS PLAN 2

SCALE: 1" = 20'-0"

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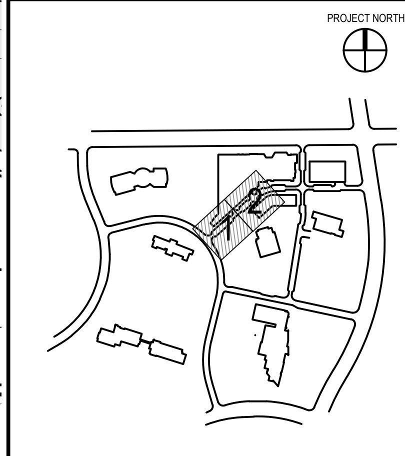

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STREETSCAPE LAYOUT AND MATERIALS PLAN
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0' 10' 20'
1" = 20'
DRAWING SCALE

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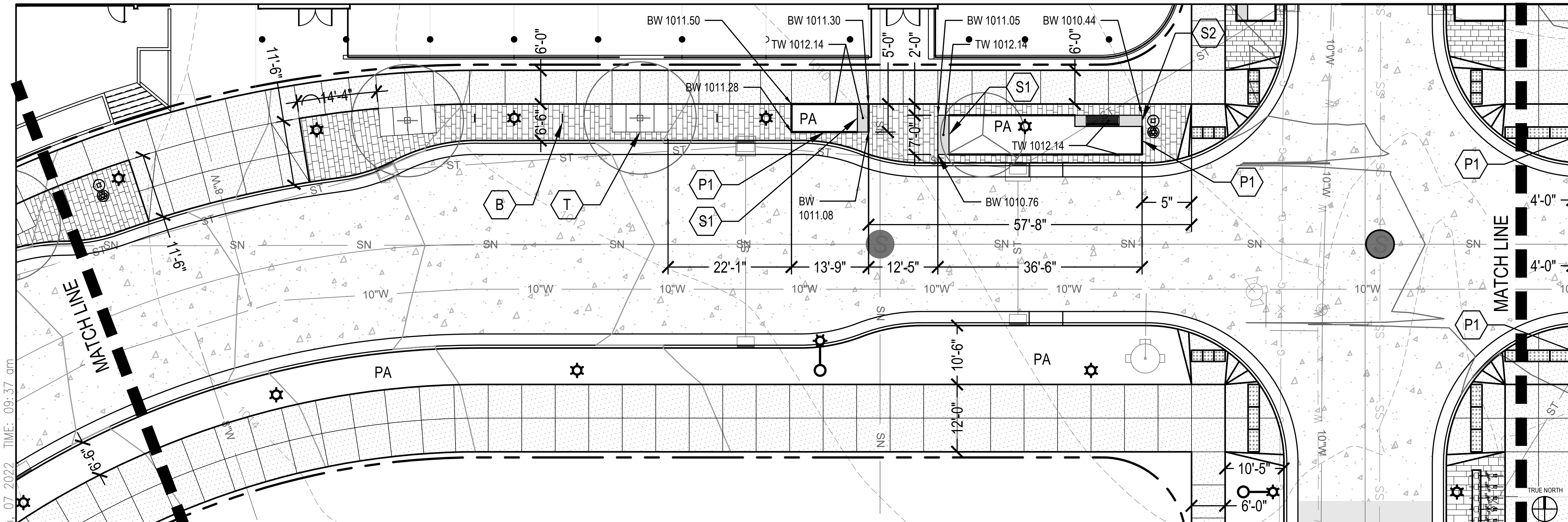
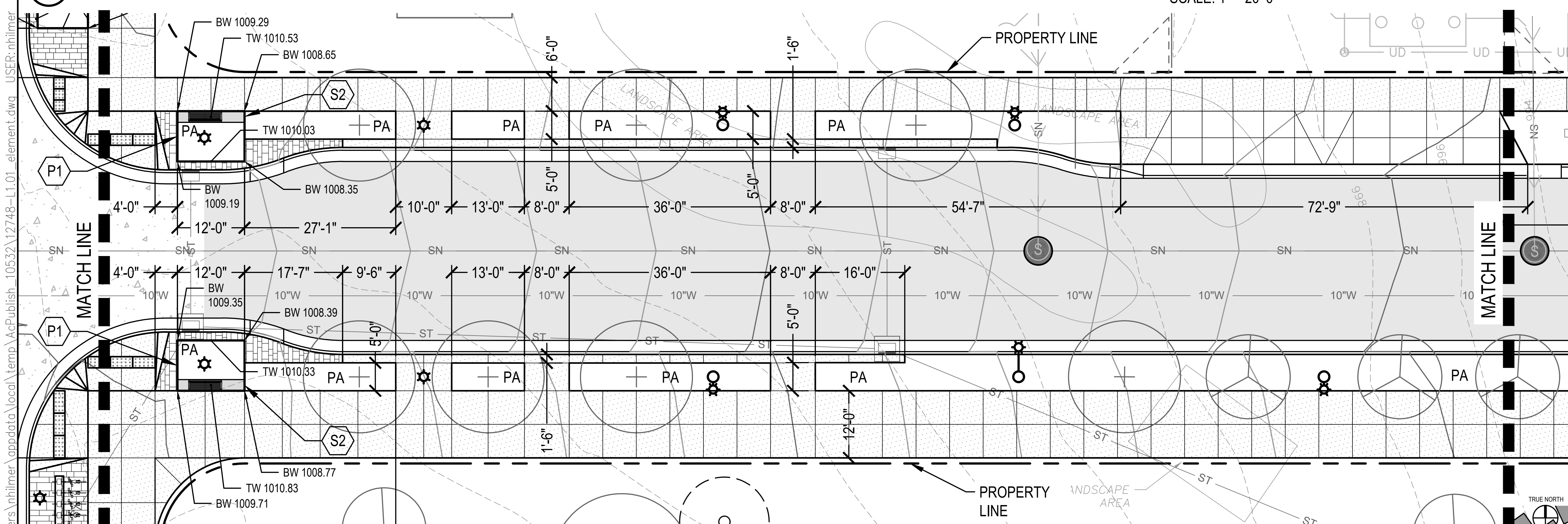


1 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 3

SCALE: 1" = 20'-0"



2 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 4

SCALE: 1" = 20'-0"

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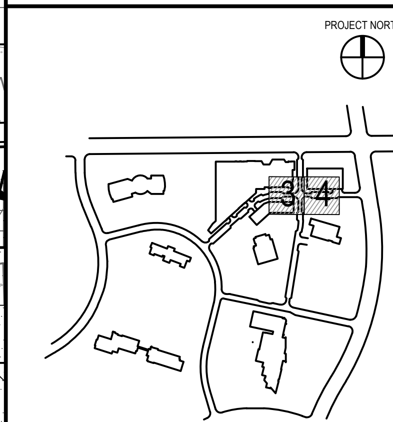

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STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

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DRAWING REFERENCE

0' 10' 20'

1" = 20'
DRAWING SCALE

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1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 5

SCALE: 1" = 20'-0"

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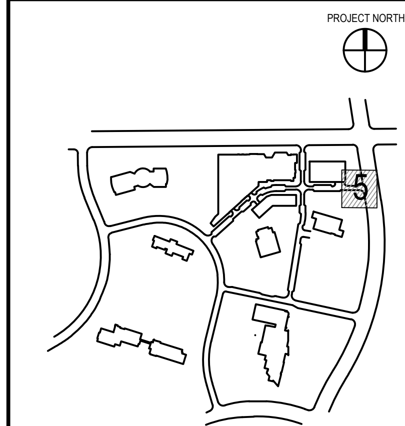

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STREETSCAPE LAYOUT AND MATERIALS PLAN
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1" = 20'
DRAWING SCALE

0' 10' 20'

06/07/2022

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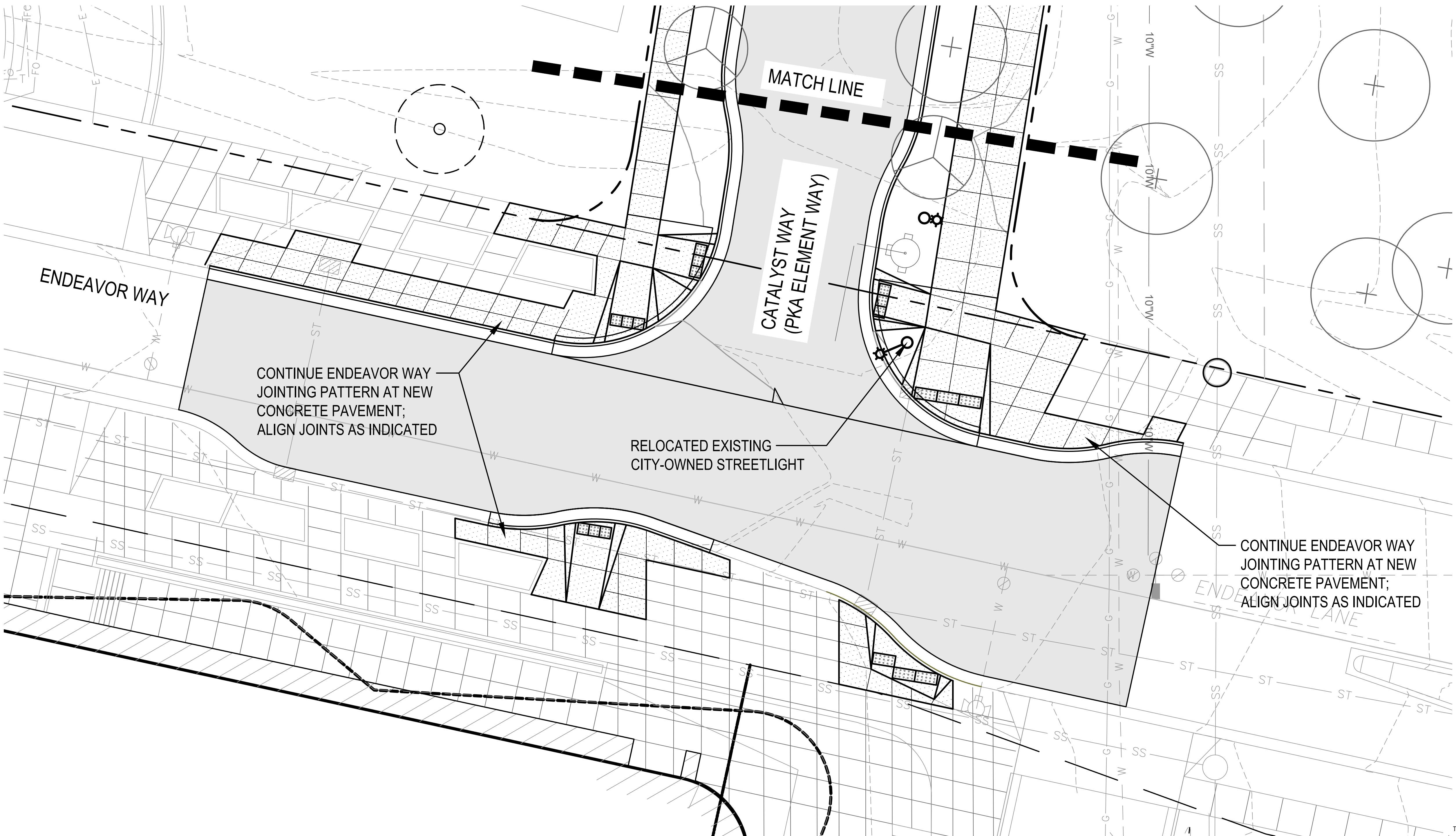

1 CATALYST WAY AT ENDEAVOR

SCALE: 1" = 20'-0"

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1" = 20'
DRAWING SCALE

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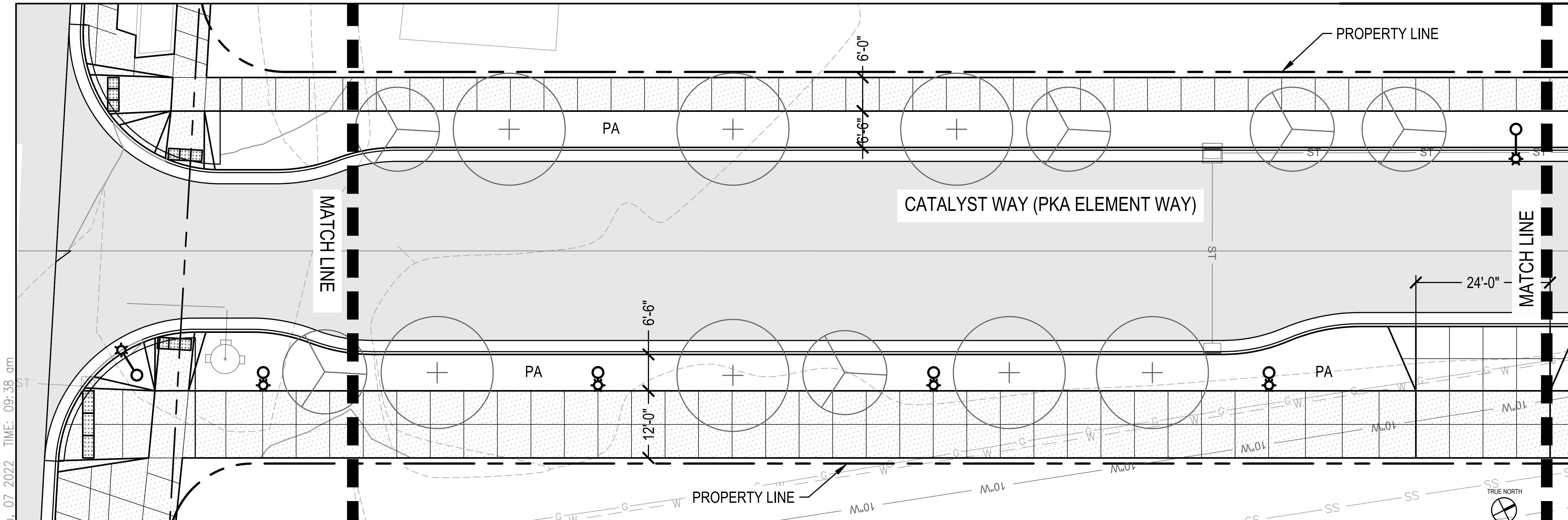
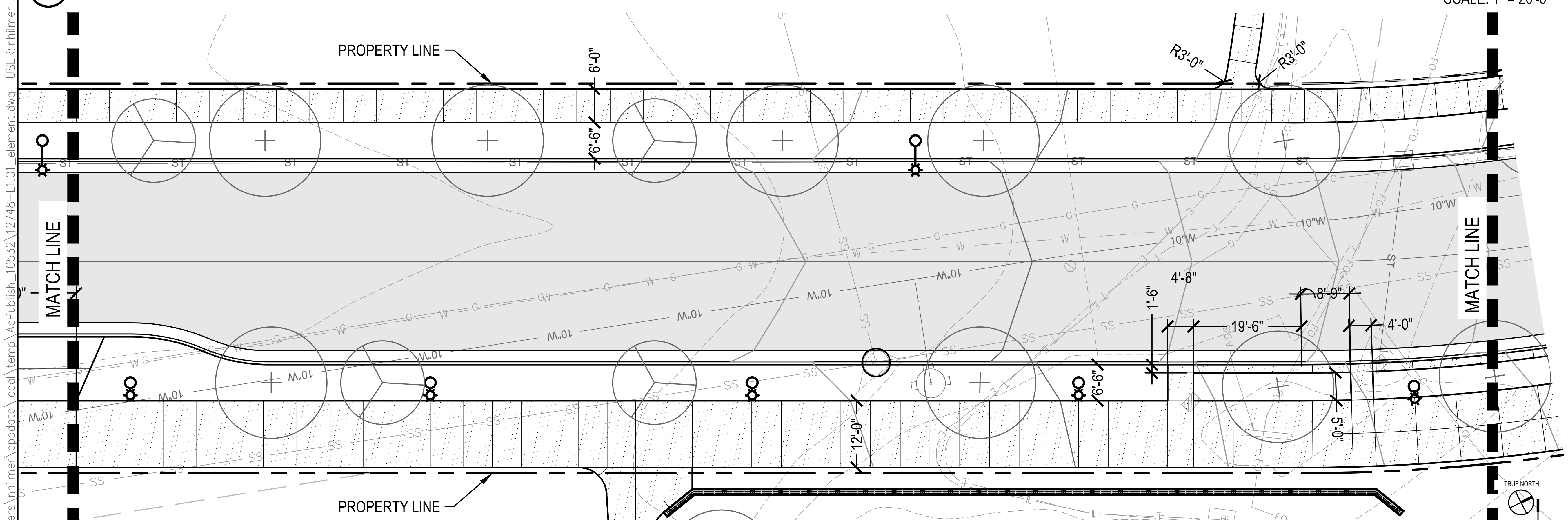


1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 1

SCALE: 1" = 20'-0"



2 CATALYST WAY - LAYOUT AND MATERIALS PLAN 2

SCALE: 1" = 20'-0"

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STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

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DRAWING REFERENCE

0' 10' 20'
1" = 20'
DRAWING SCALE

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URP - ELEMENT COLLECTIVE
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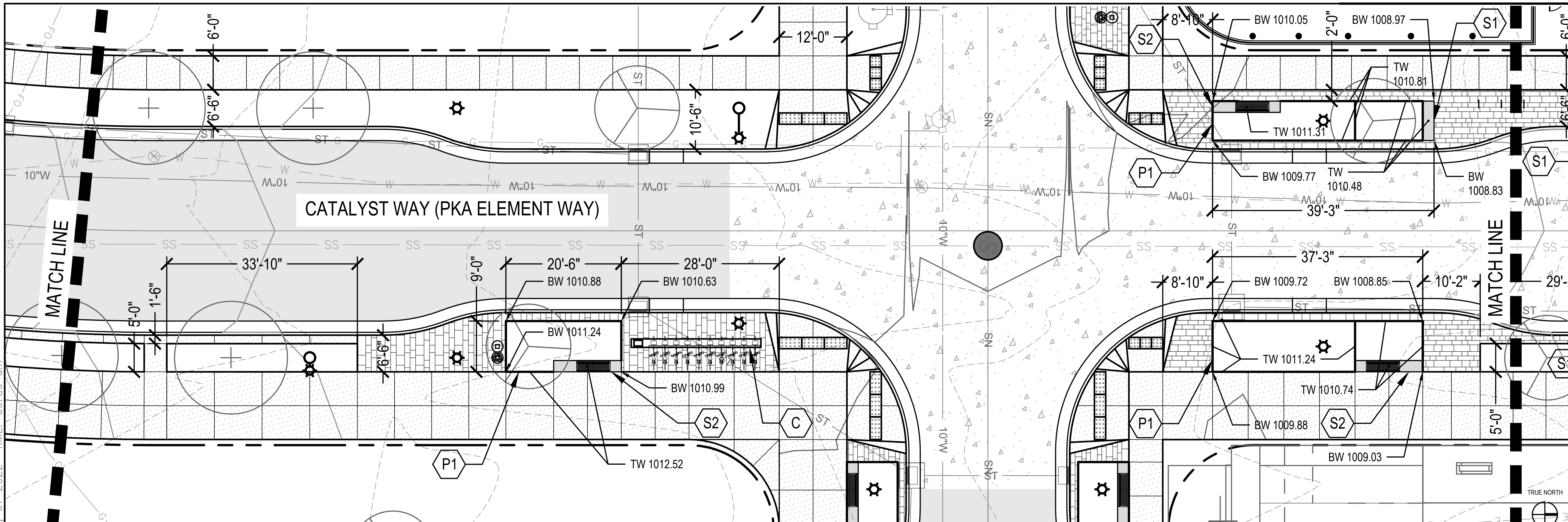
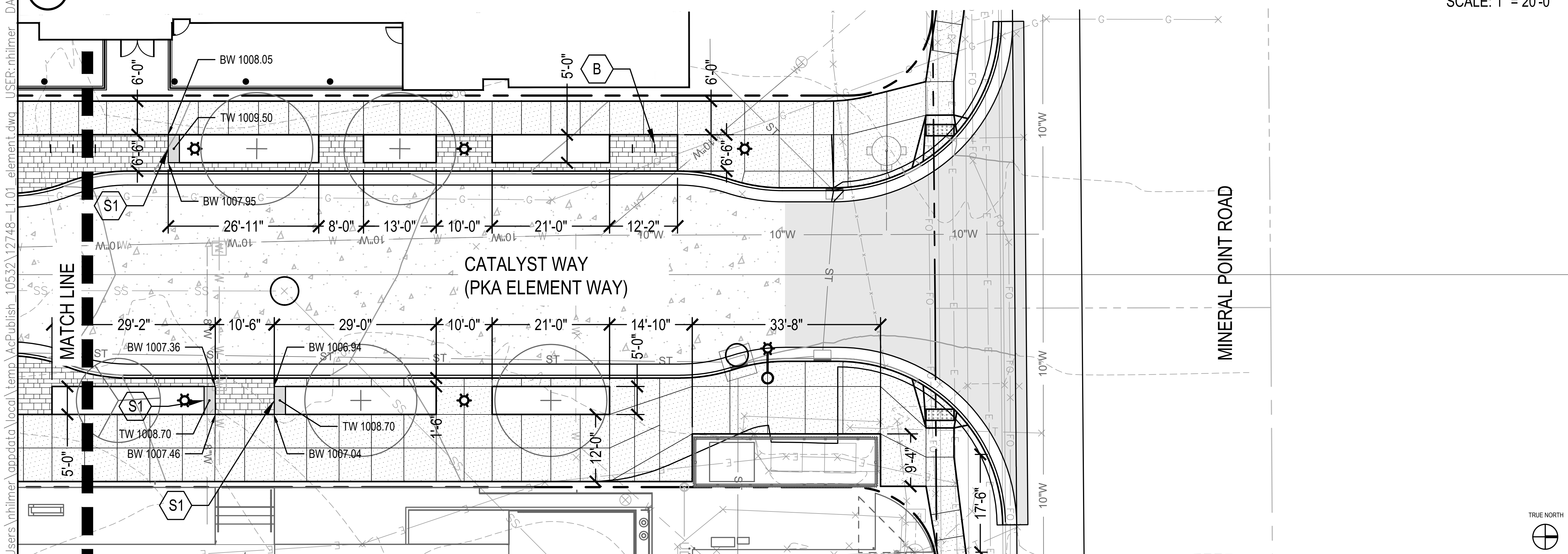


1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 3

SCALE: 1" = 20'-0"



4 CATALYST WAY - LAYOUT AND MATERIALS PLAN 4

SCALE: 1" = 20'-0"

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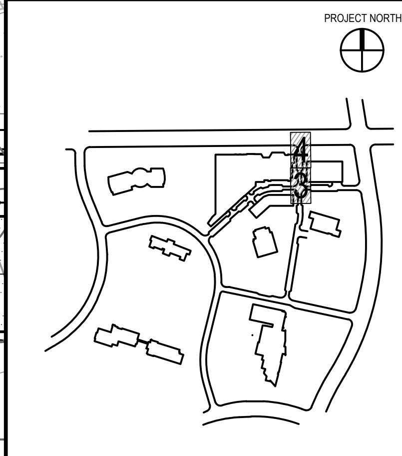
KEY PLAN



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STREETSCAPE LAYOUT AND MATERIALS PLAN
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0' 10' 20'
1" = 20'
DRAWING SCALE

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URP - ELEMENT COLLECTIVE
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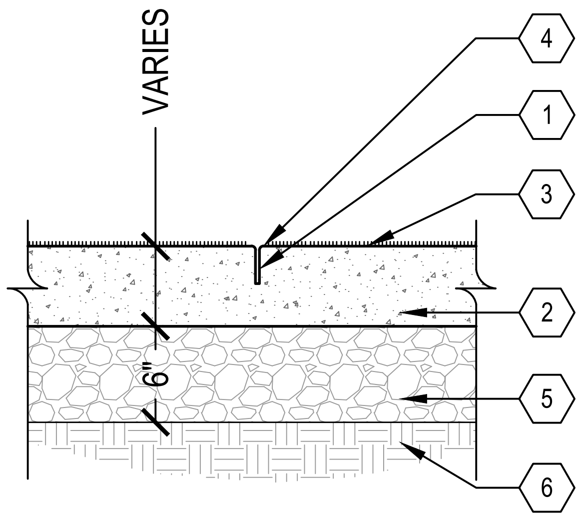
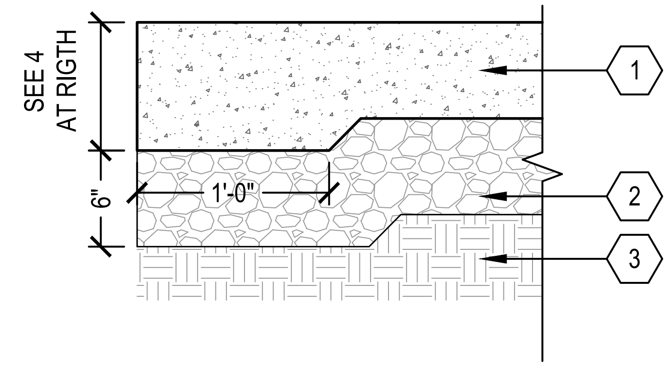


1. 1/8" W TOOLED CONTROL JOINT - SEE NOTE 1
2. CONCRETE PAVEMENT
   5" THICKNESS FOR SIDEWALKS AND PATHWAYS
   7" THICKNESS FOR APRONS AND DRIVEWAYS
3. MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL - SEE NOTE 2
4. 1/4" RADIUS ALL JOINT AND SLAB EDGES
5. DENSE GRADED BASE
6. COMPACTED SUBGRADE

NOTES:
1. JOINT DEPTH = 1/3 SLAB DEPTH. TOOL JOINTS TO DEPTH OR SAWCUT TOOLED JOINTS AS REQUIRED.
2. NO SHINER BANDS / WINDOWPANING AT CONCRETE PAVEMENT JOINTS.
3. ALL VERTICAL FACES OF CONCRETE PAVEMENT TO BE FULLY-FORMED FOR THE ENTIRE DEPTH OF THE SLAB.

1 CONCRETE PAVEMENT

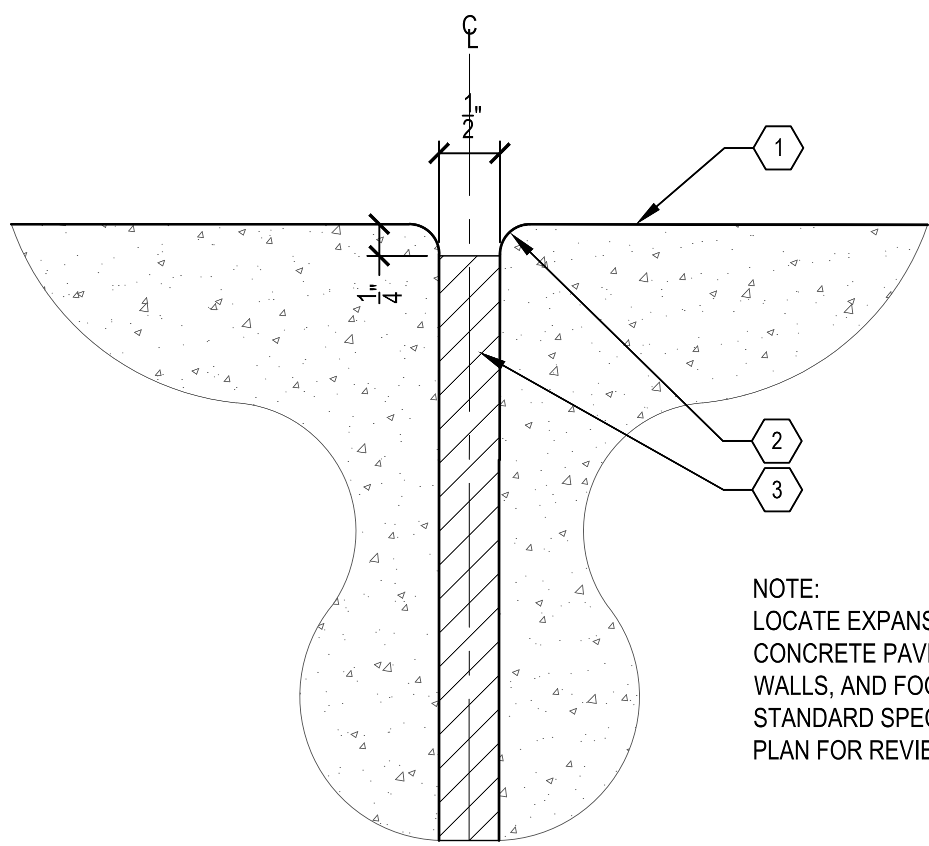
SCALE: 1" = 1'-0"



1. CONCRETE PAVEMENT (1 / L5.01)
2. 6" DENSE GRADED BASE
3. COMPACTED SUBGRADE
4. 8" MIN DEPTH WHERE DOWELS OR ANCHORAGES ARE REQUIRED, OR AS DETAILED

2 CONCRETE PAVEMENT THICKENED EDGE

SCALE: 1" = 1'-0"

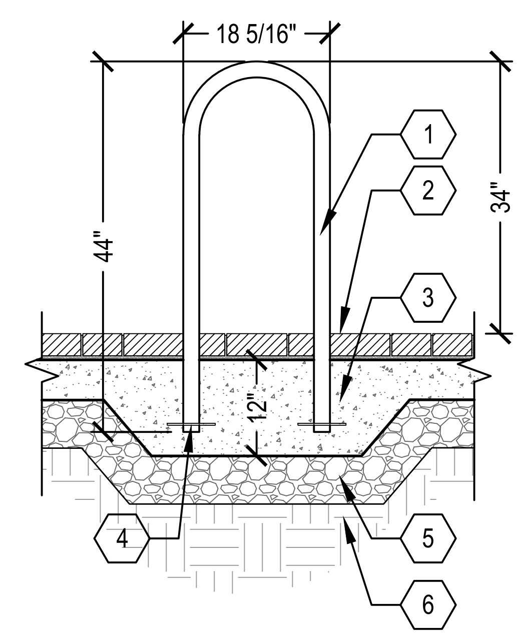


1. PAVEMENT SURFACE
2. ¼" RADIUS
3. PREFORMED EXPANSION JOINT MATERIAL

NOTE:
LOCATE EXPANSION JOINTS PER DETAILS, WHERE CONCRETE PAVEMENT ABUTS FOUNDATIONS, WALLS, AND FOOTINGS, AND PER CITY OF MADISON STANDARD SPECIFICATIONS. PROVIDE JOINTING PLAN FOR REVIEW AND APPROVAL.

3 EXPANSION JOINT

SCALE: NTS



1. 2" SQUARE TUBE BIKE RACK
2. FINISH SURFACE OF PAVERS
3. THICKENED CONCRETE SLAB
4. 6" L SS ANCHOR ROD
5. COMPACTED DENSE GRADED BASE
6. COMPACTED SUBGRADE

NOTES

1. LANDSCAPE ARCHITECT TO SELECT AND VERIFY COLOR AND FINISH PRIOR TO INSTALLATION.

4 BIKE RACK

SCALE: 1/2" = 1'-0"

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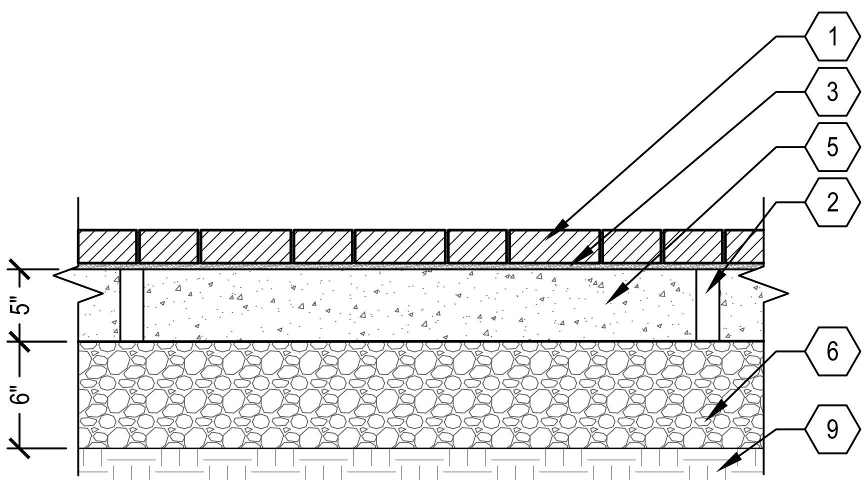
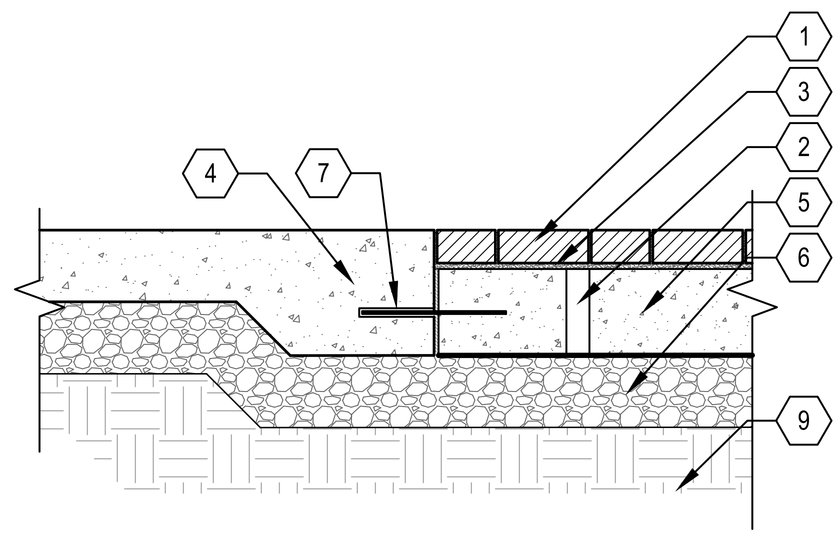
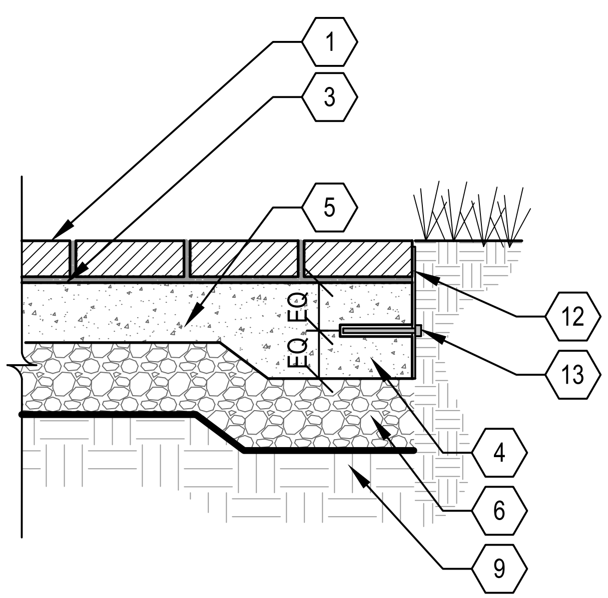


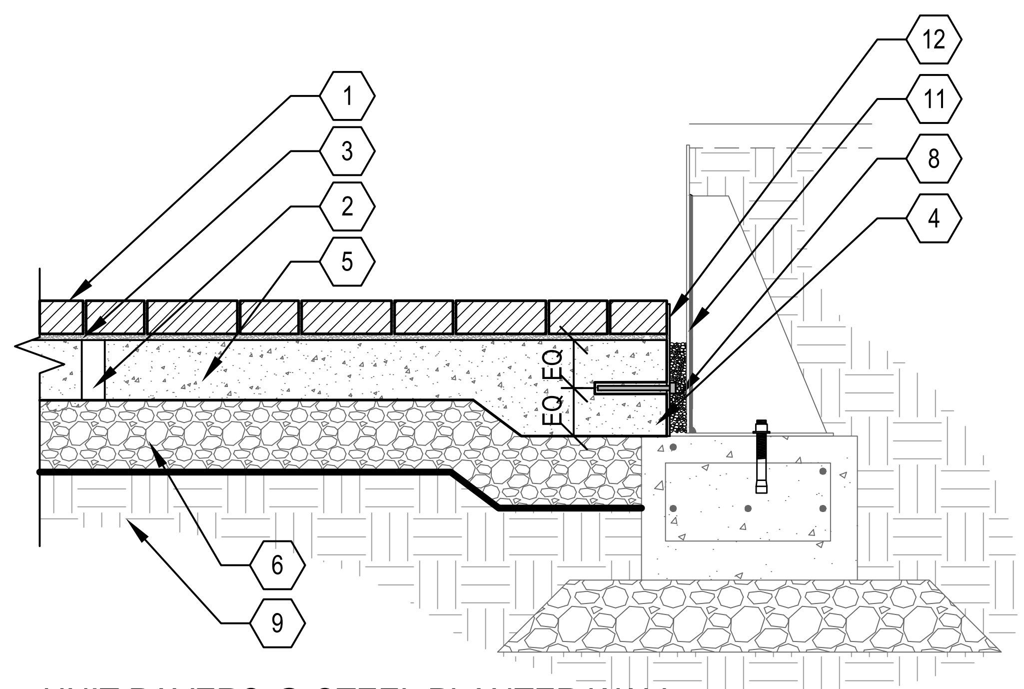
UNIT PAVERS TYPICAL SECTION



UNIT PAVERS @ CONCRETE WALK TYPICAL SECTION



UNIT PAVERS @ LANDSCAPE BED TYPICAL SECTION



UNIT PAVERS @ STEEL PLANTER WALL TYPICAL SECTION

1. CONCRETE PAVERS WITH POLYMERIC SAND JOINTS
2. 2" Ø WEEP HOLES @ 24" OC @ PERIMETER OF PAVER FIELDS. LOCATE WEEPS 12" FROM EDGE OF CONCRETE BASE AT DOWNHILL END OF PAVER FIELDS, WHERE CONCRETE BASE ABUTS CURBING, FOOTINGS, OR CONCRETE PAVEMENT. FILL WEEPS WITH CLEAR DRAINAGE AGGREGATE AND PROVIDE 12" SQ GEOTEXTILE FABRIC TO PREVENT SAND MIGRATION.
3. 1/2" SAND SETTING BED
4. CONCRETE PAVEMENT THICKENED EDGE 2/L5.01
5. CONCRETE BASE
6. DENSE GRADED BASE
7. 1/2" Ø 12" EPOXY-COATED DOWEL @ 2' OC; GREASE ONE END ONLY
8. NOT USED
9. COMPACTED SUBGRADE
10. NOT USED
11. STEEL PLANTER WALL 1/L5.05 1/L5.06
12. 1/4" X 12" GALVANIZED STEEL EDGE PAVER RESTRAINT; WELD ABUTTING SEGMENTS
13. 5/8" Ø x 6" L STAINLESS STEEL ANCHOR @ 2' OC

NOTE:
PROVIDE TOOLED OR SAWN CONTROL JOINTS AT CONCRETE BASE. LOCATE JOINTS AND PROPORTION PANELS TO CREATE STABLE PANELS.

1 UNIT PAVERS

SCALE: NTS

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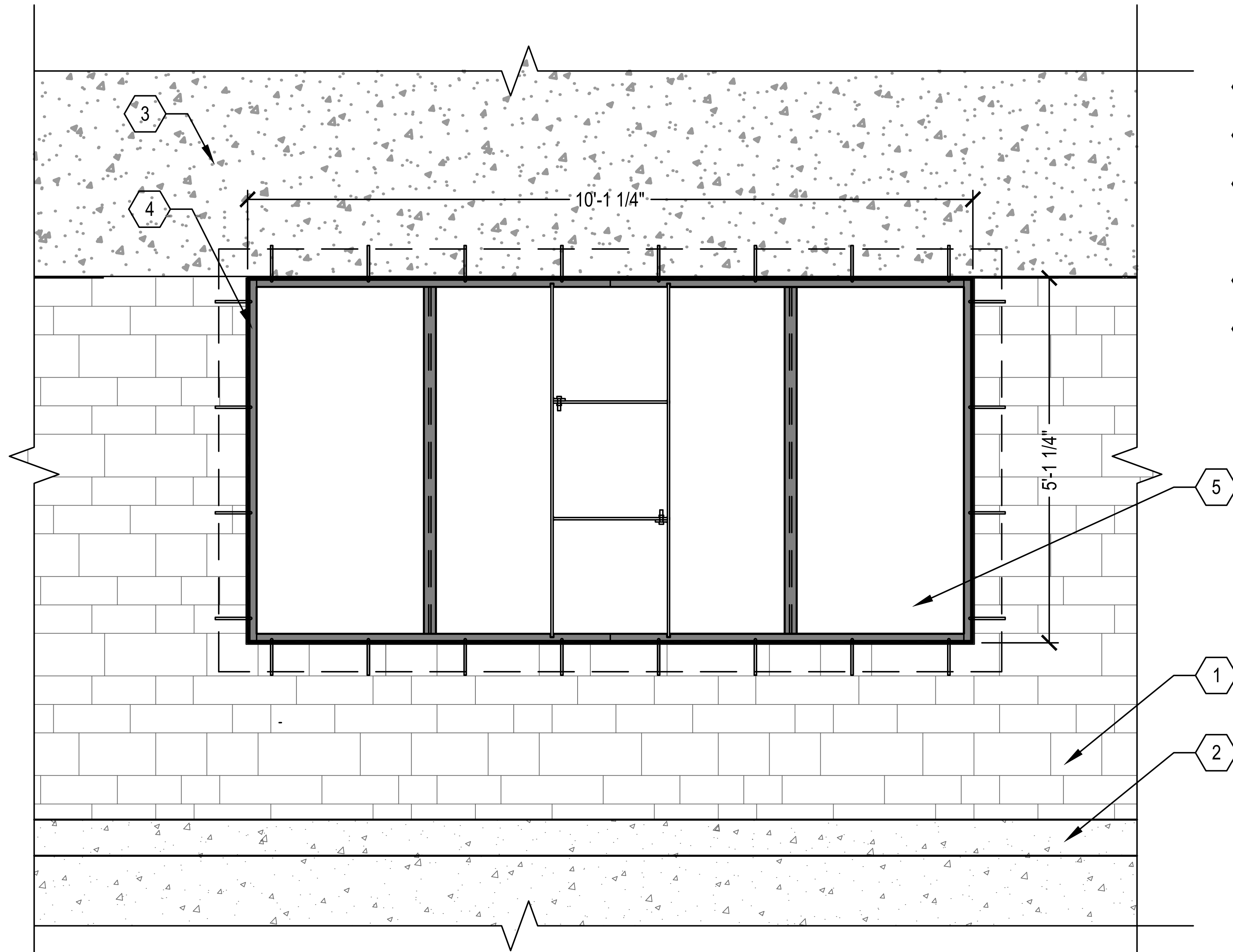

PLAN VIEW

1. UNIT PAVERS (1 / L5.02)
2. CONCRETE CURB
3. CONCRETE PAVEMENT (1 / L5.01)
4. TREE GRATE FRAME (1 / L5.04)
5. TREE GRATE

1 TREE GRATE FRAME

SCALE: 1/2" = 1'-0"

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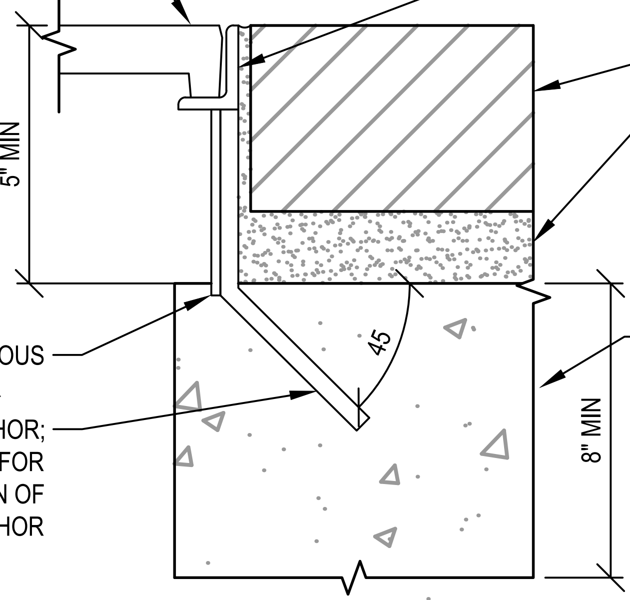
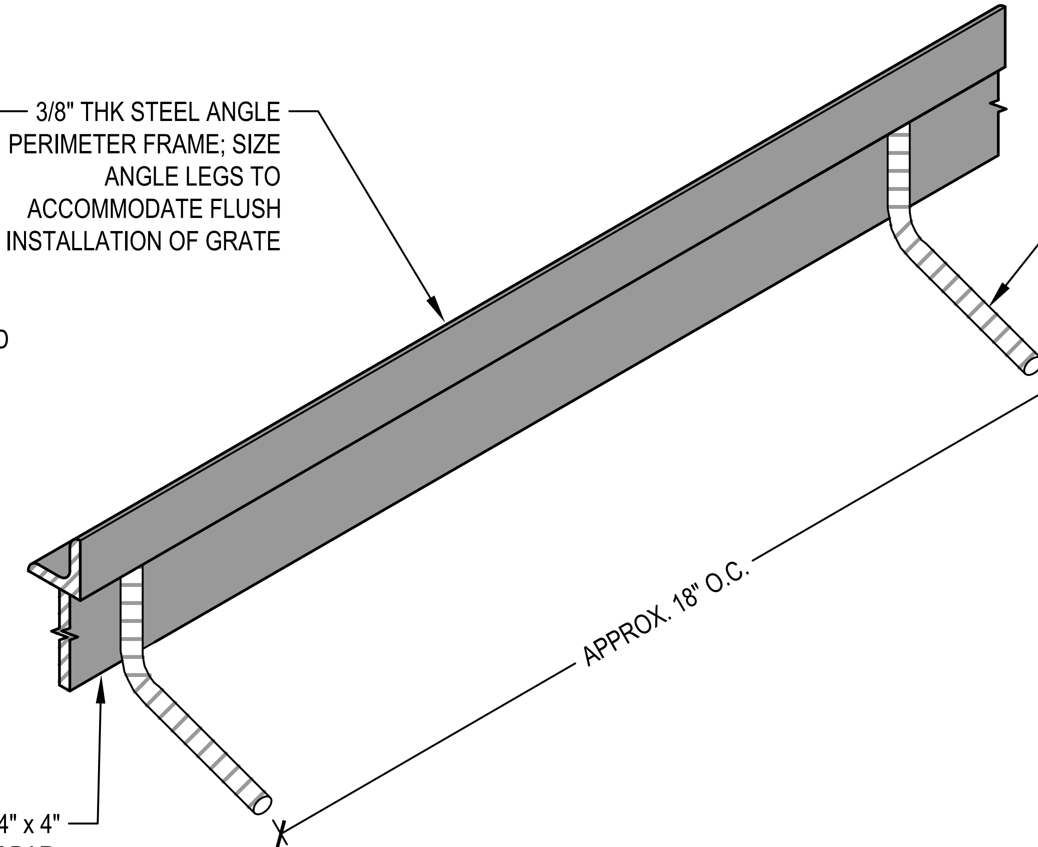
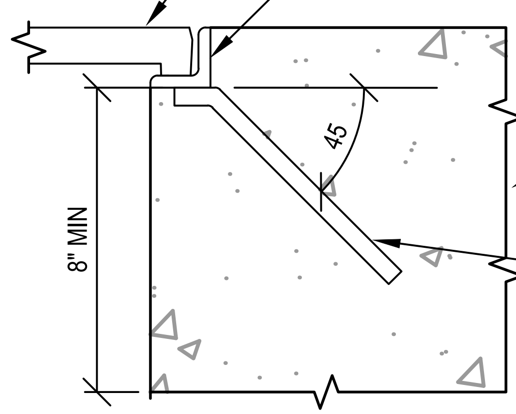


SECTION

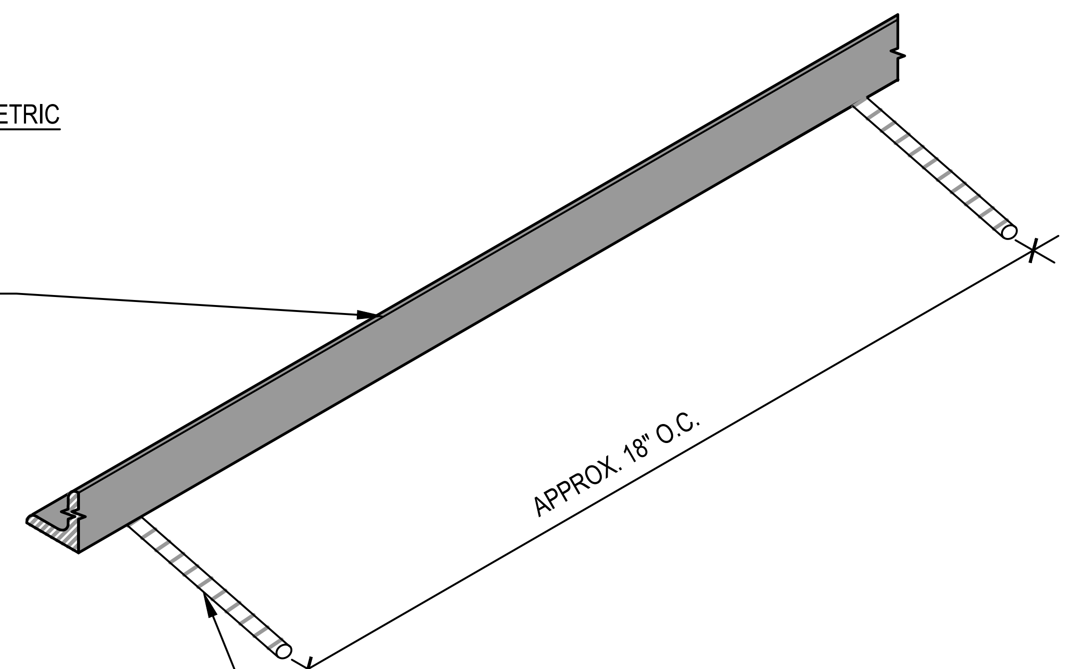


ISOMETRIC

TREE GRATE AT PAVERS



SECTION



ISOMETRIC

NOTE:
HOT DIP GALVANIZE FRAMES AFTER FABRICATION

TREE GRATE AT CONCRETE PAVEMENT

1 TREE GRATE FRAME

SCALE: NTS

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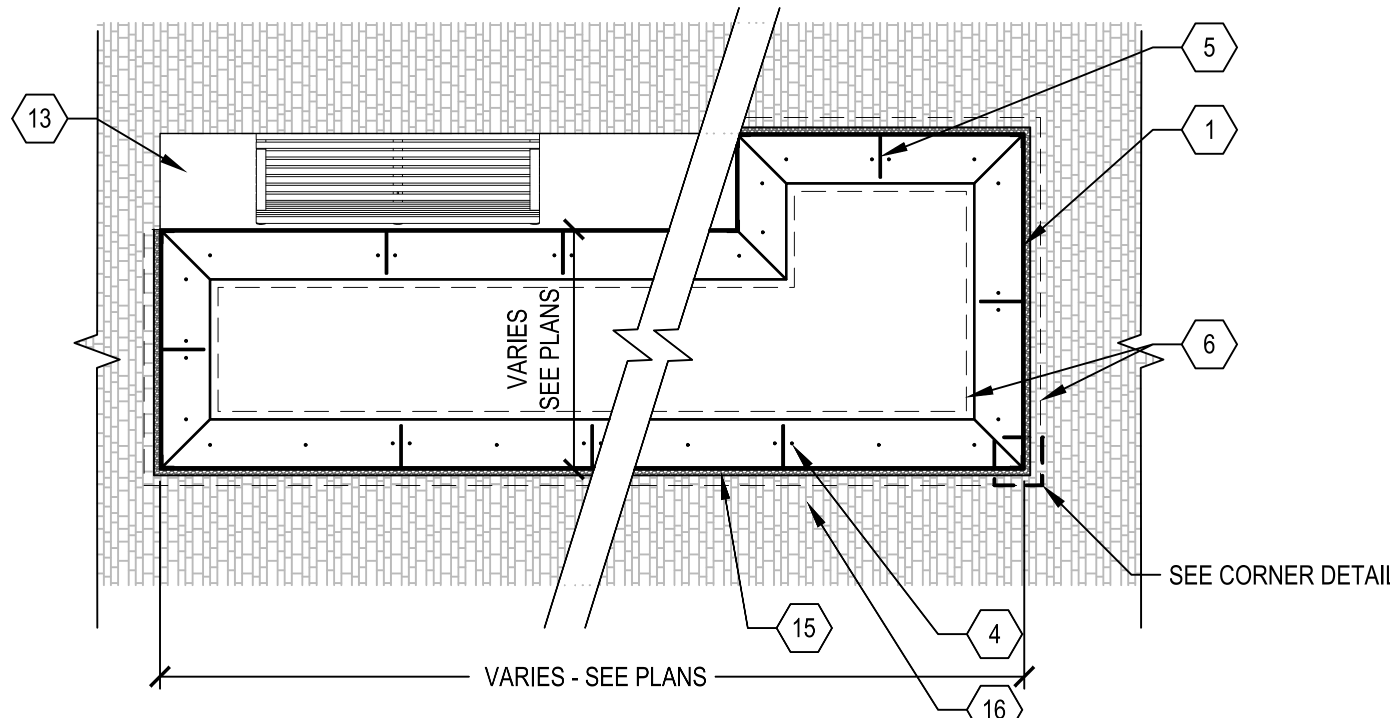
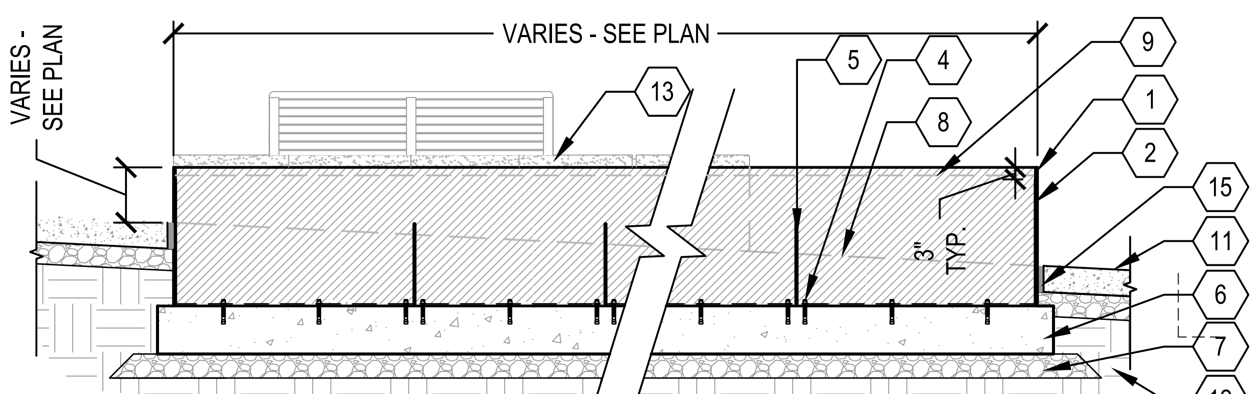


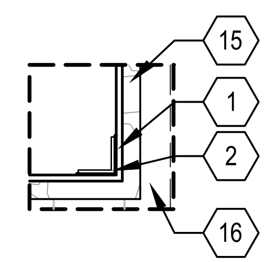
STEEL PLANTER WALL - PLAN



STEEL PLANTER WALL - SECTION/ELEVATION

1. 3/8 " WEATHERING STEEL PLATE
2. 3" x 3" x $\frac{1}{4}$" WEATHERING STEEL ANGLE AT CORNERS, LENGTH VARIES WITH HEIGHT OF PLANTER WALL
3. NOT USED
4. SS 3/4" Ø EXPANSION ANCHOR @ 2'-0" OC, 4" MIN EMBEDMENT
5. 3/8" WEATHERING STEEL GUSSET PLATE @ ±3'-6" O.C. ON LONG ENDS, TYP; MIN ONE GUSSET PLATE ON SHORT ENDS
6. CIP CONCRETE FOOTING
7. DENSE GRADED BASE
8. FINISH GRADE OF SIDEWALK (BEHIND)
9. TOP OF GROWING MEDIA
10. NOT USED
11. FINISH SURFACE
12. COMPACTED SUBGRADE
13. STONE SEATWALL WITH BENCH 1 / L5.07
14. NOT USED
15. 1 1/2" W DECORATIVE PEA GRAVEL EDGE
16. ADJACENT PAVEMENT VARIES BY LOCATION

NOTES
1. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. ALL PLATE STEEL AND ANGLE TO BE WEATHERING STEEL
3. ALL ANCHORS, FASTENERS, AND CONNECTORS TO BE 316 SS.
4. PROVIDE PROTECTIVE WEATHERING STEEL COATING PER SPECIFICATIONS.
5. SEQUENCE FABRICATION TO ALLOW WEATHERING STEEL TO PATINA PRIOR TO INSTALLATION.
6. PROVIDE CONTINUOUS WELDS BETWEEN ALL PLANTER COMPONENTS.



PLANTER CORNER DETAIL
SCALE: 3" = 1'-0"

1 STEEL WALL PLANTER - TYPICAL PLAN

SCALE: 1/4" = 1'

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DAVID WOLMUTT
E-31264
MADISON WIS.
PROFESSIONAL ENGINEER
6/7/22

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-
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DRAWING SCALE

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PROJECT NAME

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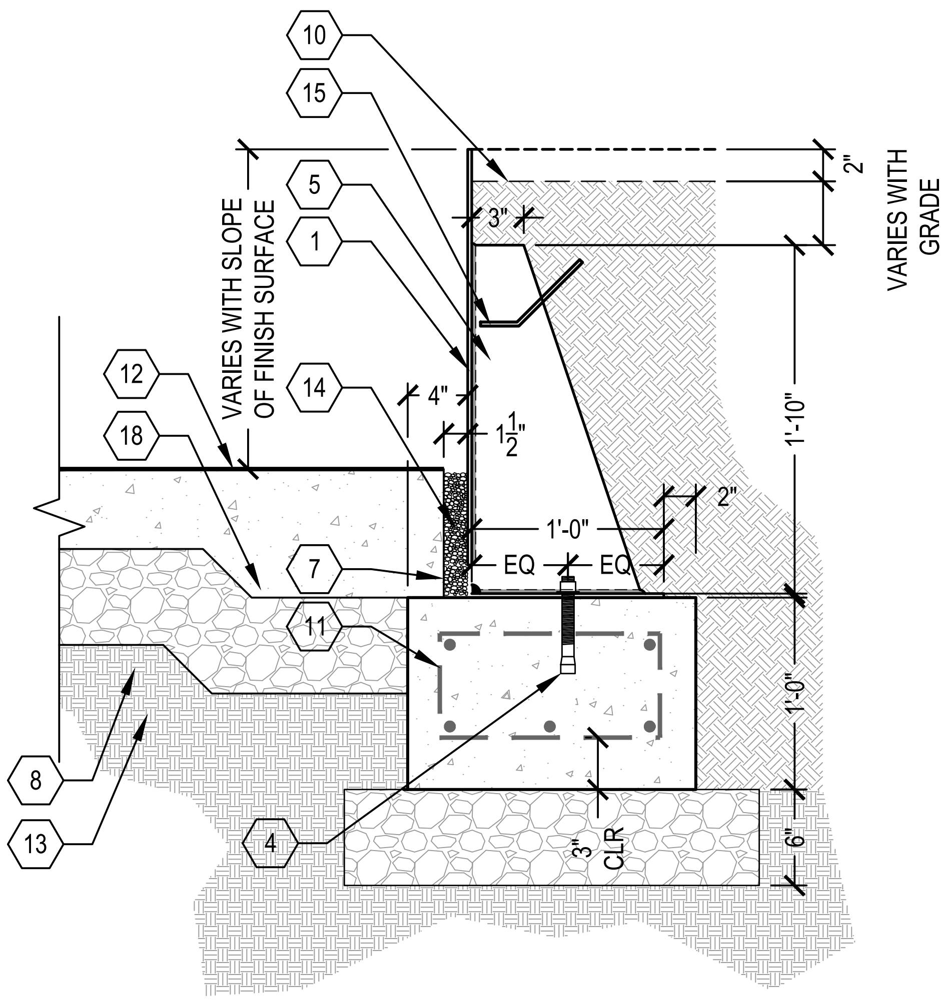
PROJECT NUMBER

L5.05
DRAWING NUMBER



1 3/8" WEATHERING STEEL PLATE

2 NOT USED

3 NOT USED

4 SS 3/4" Ø EXPANSION ANCHOR @ 2' OC, 4" MIN EMBEDMENT

5 NOT USED

6 NOT USED

7 CIP CONCRETE FOOTING

8 DENSE GRADED BASE

9 NOT USED

10 TOP OF PLANTING SOIL

11 #4 REBAR @ 10" EACH WAY

12 FINISH SURFACE OF ADJACENT PAVEMENT

13 COMPACTED SUBGRADE

14 1 1/2" DECORATIVE PEA GRAVEL EDGE

15 #4 REBAR LIFTING HOOK

16 NOT USED

17 NOT USED

18 CONCRETE PAVEMENT THICKENED EDGE 2 / L5.01

*** SEE NOTES IN DETAIL ON PAGE L5.05***

3 STEEL WALL PLANTER - TYPICAL SECTION

SCALE: 1" = 1'

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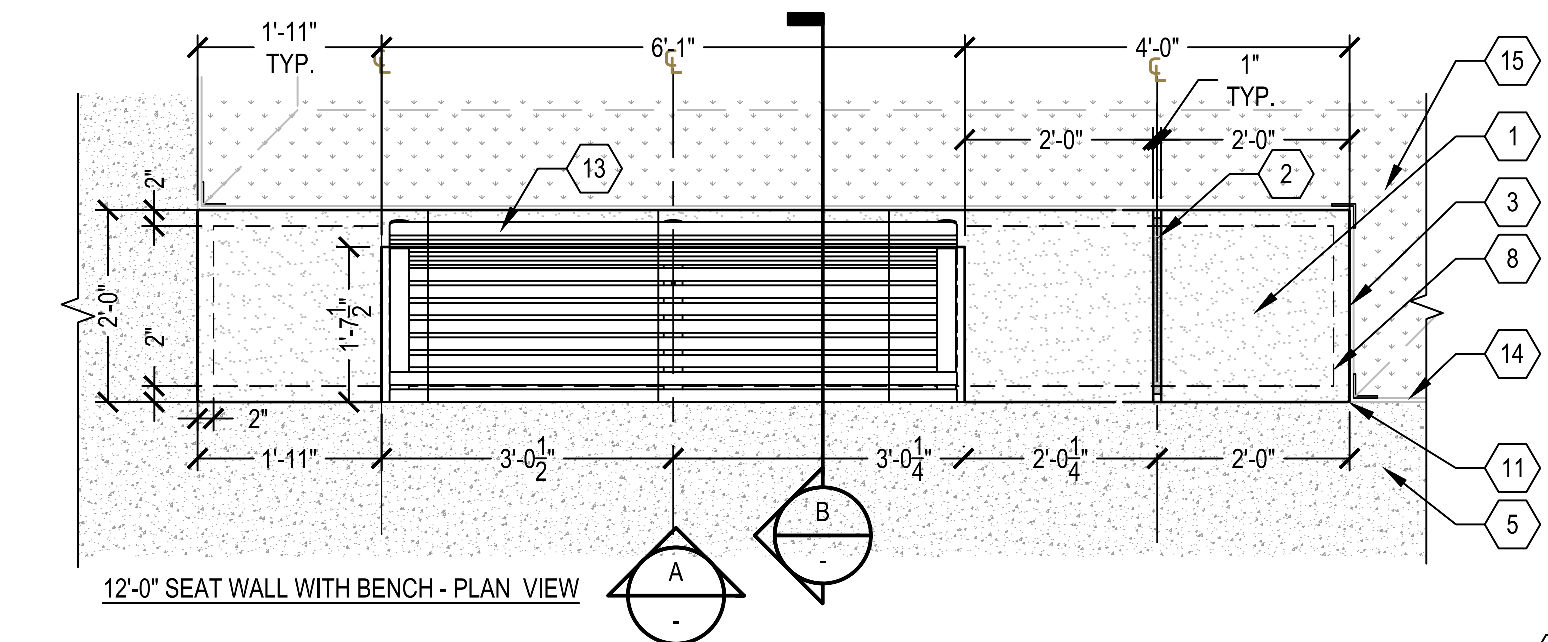
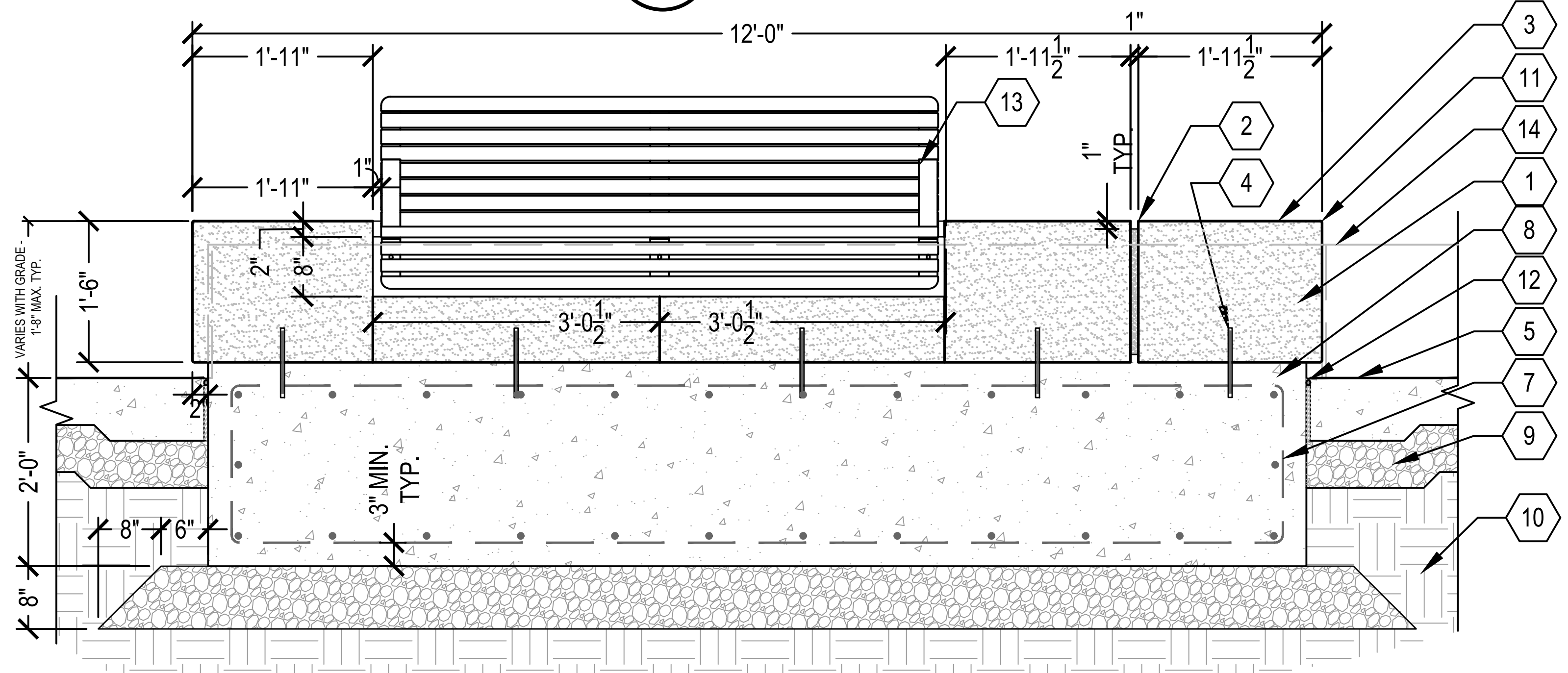
PROJECT NUMBER

L5.06
DRAWING NUMBER



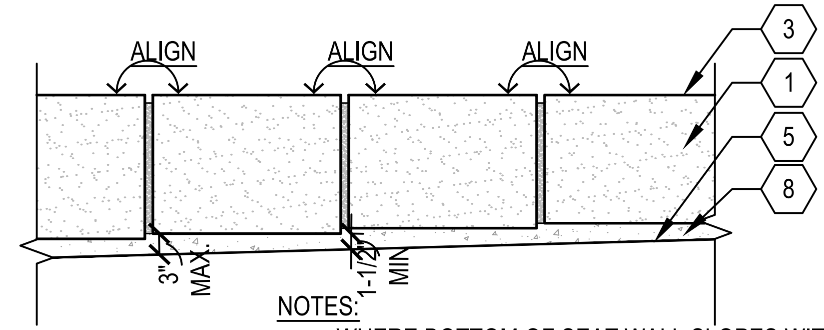
12'-0" SEAT WALL WITH BENCH - PLAN VIEW



SECTION/ELEVATION VIEW A

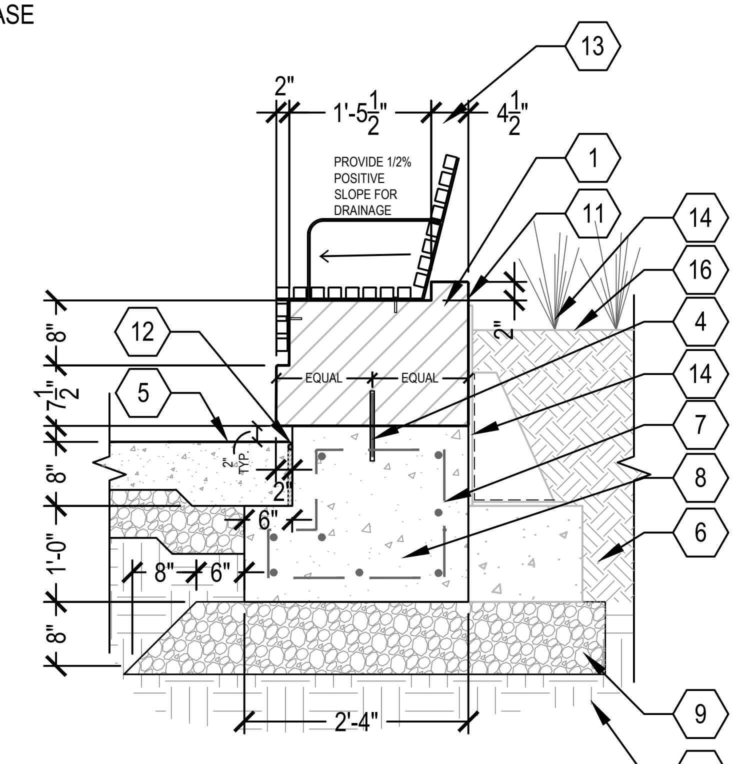
NOTES:

1. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. SEE PLANS FOR TOP- AND BOTTOM-OF-WALL ELEVATIONS. WHERE ELEVATIONS ARE NOT INDICATED, THE MIDPOINT OF THE BENCH SHOULD BE SET 18" ABOVE FINISH GRADE.
3. PROVIDE MEDIUM SAND-BLASTED FINISH ALL EXPOSED STONE FACES.



ELEVATION VIEW AT SLOPE

NOTES:
WHERE BOTTOM OF SEAT WALL SLOPES WITH GRADE, MAINTAIN CONSISTENT TOP OF WALL ELEVATIONS AND CONSISTENT BOTTOM OF WALL REVEAL DIMENSIONS. MINIMUM REVEAL HEIGHT 1.5", MAXIMUM REVEAL HEIGHT 3".



SECTION VIEW B

1. LIMESTONE BLOCK SEATWALL W/ C.I.P. CONCRETE FOUNDATION
2. 1" W x 1" D REVEAL
3. SAND BLASTED FINISH, ALL EXPOSED FACES, TYP.
4. 3/4" Ø x 8" STAINLESS STEEL PIN, CENTER IN BLOCK AND EPOXY IN PLACE; SHOP DRILL FOR PIN
5. FINISH SURFACE
6. PLANTING SOIL EXCAVATE TO UNCOMPACTED SUBGRADE
7. #4 REBAR @ 12" O.C. EACH WAY, TYP
8. CONCRETE FOUNDATION
9. COMPACTED DENSE GRADED BASE
10. COMPACTED SUBGRADE
11. 1/4" RADIUS ON ALL EXPOSED EDGES, TYP.
12. EXPANSION JOINT AT VERTICAL SURFACE
13. LANDSCAPE FORMS 71" UNIVERSAL BACKED BENCH, ATTACH PER MANUFACTURER SPECIFICATIONS.
14. STEEL PLANTER WALL 1/L5.05 1/L5.06
15. ADJACENT PLANTING AREA
16. FINISH GRADE

1 STONE SEATWALL WITH BENCH

SCALE: 1/2" = 1'

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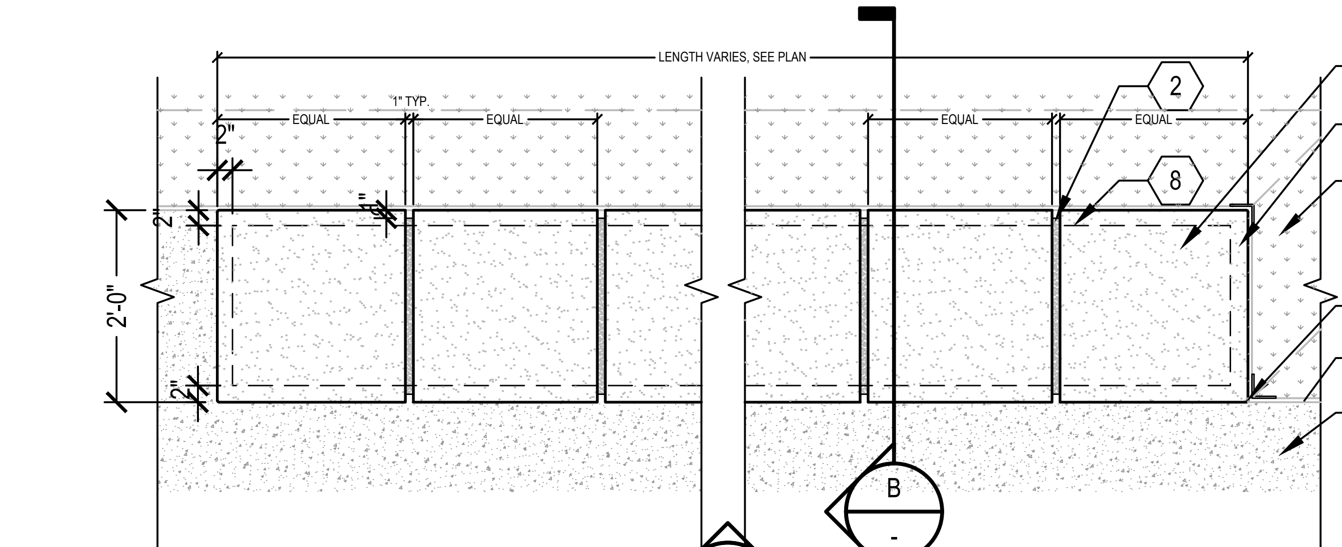
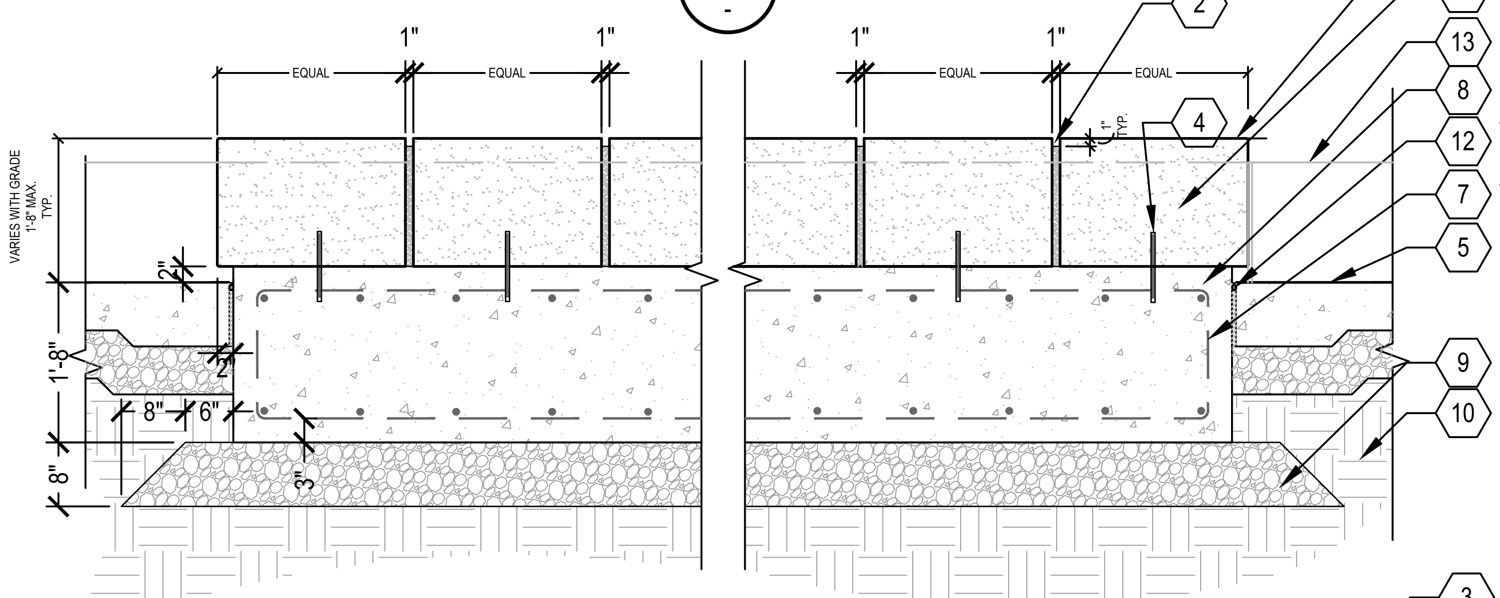
DRAWING NUMBER



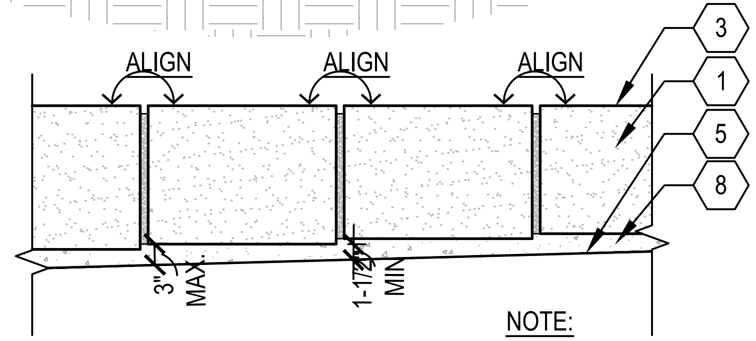
TYPICAL SEAT WALL NO BENCH - PLAN VIEW



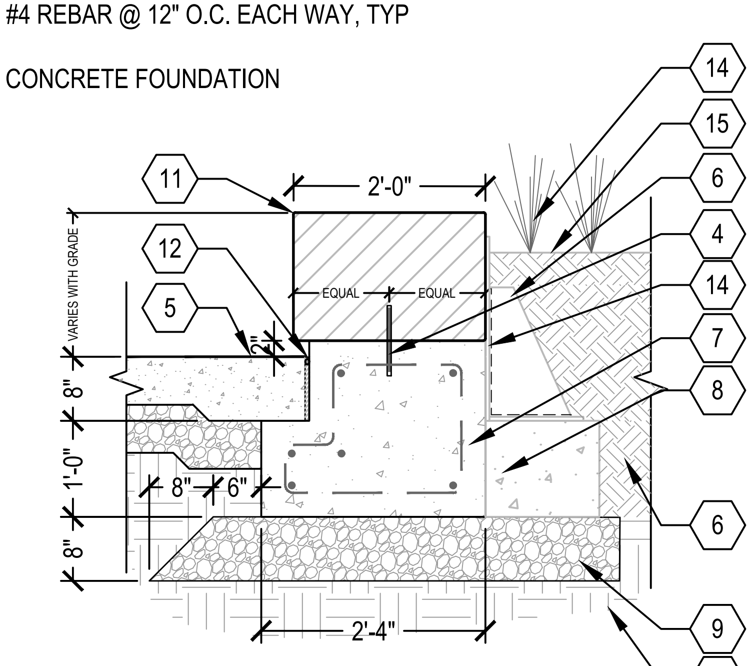
TYPICAL SECTION/ELEVATION VIEW A

1. LIMESTONE BLOCK SEATWALL W/ C.I.P. CONCRETE FOUNDATION
2. 1" W x 1" D REVEAL
3. SAND BLASTED FINISH, ALL EXPOSED FACES, TYP.
4. 3/4" Ø x 8" STAINLESS STEEL PIN, CENTER IN BLOCK AND EPOXY IN PLACE; SHOP DRILL FOR PIN
5. FINISH SURFACE
6. PLANTING SOIL EXCAVATE TO UNCOMPACTED SUBGRADE
7. #4 REBAR @ 12" O.C. EACH WAY, TYP
8. CONCRETE FOUNDATION
9. COMPACTED DENSE GRADED BASE
10. COMPACTED SUBGRADE
11. 1/4" RADIUS ON ALL EXPOSED EDGES, TYP.
12. EXPANSION JOINT AT VERTICAL SURFACE
13. STEEL PLANTER WALL
14. ADJACENT PLANTING AREA
15. FINISH GRADE

1 / L5.05   1 / L5.06



ELEVATION VIEW AT SLOPE



SECTION VIEW B

NOTES:
1. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. SEE PLANS FOR TOP OF BOTTOM/ WALL ELEVATIONS. WHERE ELEVATIONS ARE NOT INDICATED, THE MIDPOINT OF THE SEATWALL SHOULD BE SET 18" ABOVE FINISH GRADE.
3. PROVIDE MEDIUM SAND-BLASTED FINISH ALL EXPOSED STONE FACES.

NOTE:

WHERE BOTTOM OF SEAT WALL SLOPES WITH GRADE, MAINTAIN CONSISTENT TOP OF WALL ELEVATIONS AND CONSISTENT BOTTOM OF WALL REVEAL DIMENSIONS. MINIMUM REVEAL HEIGHT 1.5", MAXIMUM REVEAL HEIGHT 3".

1 STONE SEATWALL

SCALE: 1/2" = 1'

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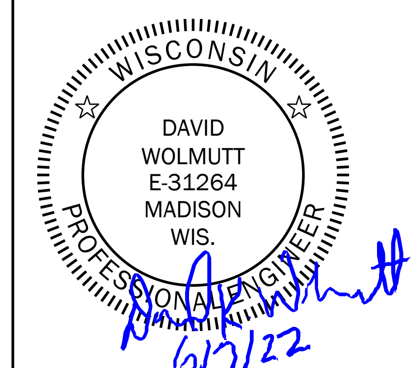

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URP - ELEMENT COLLECTIVE
PROJECT NAME

12748
PROJECT NUMBER

L5.08
DRAWING NUMBER

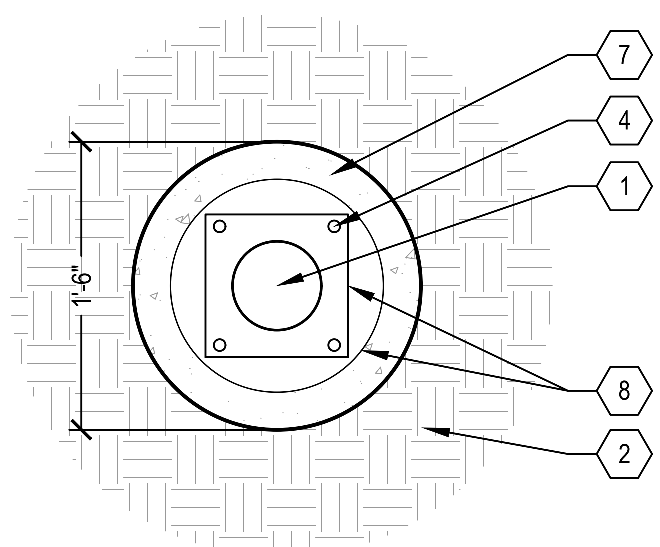
KEYED NOTES

1. LIGHT POLE TYPE 1 OR 2
2. ADJACENT FINISH SURFACE; CONDITION VARIES
3. REFER TO ELECTRICAL FOR CONDUIT, GROUNDING, WIRING, ETC.
4. (4) GALVANIZED STEEL ANCHOR BOLTS SIZED PER MANUFACTURER'S RECOMMENDATION
5. (4) #8 BARS, VERTICAL; SPACE EVENLY
6. #3 TIES @ 16" OC
7. 4000 PSI REINFORCED CONCRETE FOOTING
8. BASE PLATE AND BASE PLATE COVER - INSTALL PER MANUFACTURER'S INSTRUCTIONS
9. EXPANSION JOINT WHEN POLE IS LOCATED AT CONCRETE PAVEMENT
10. 1/2" RADIUS

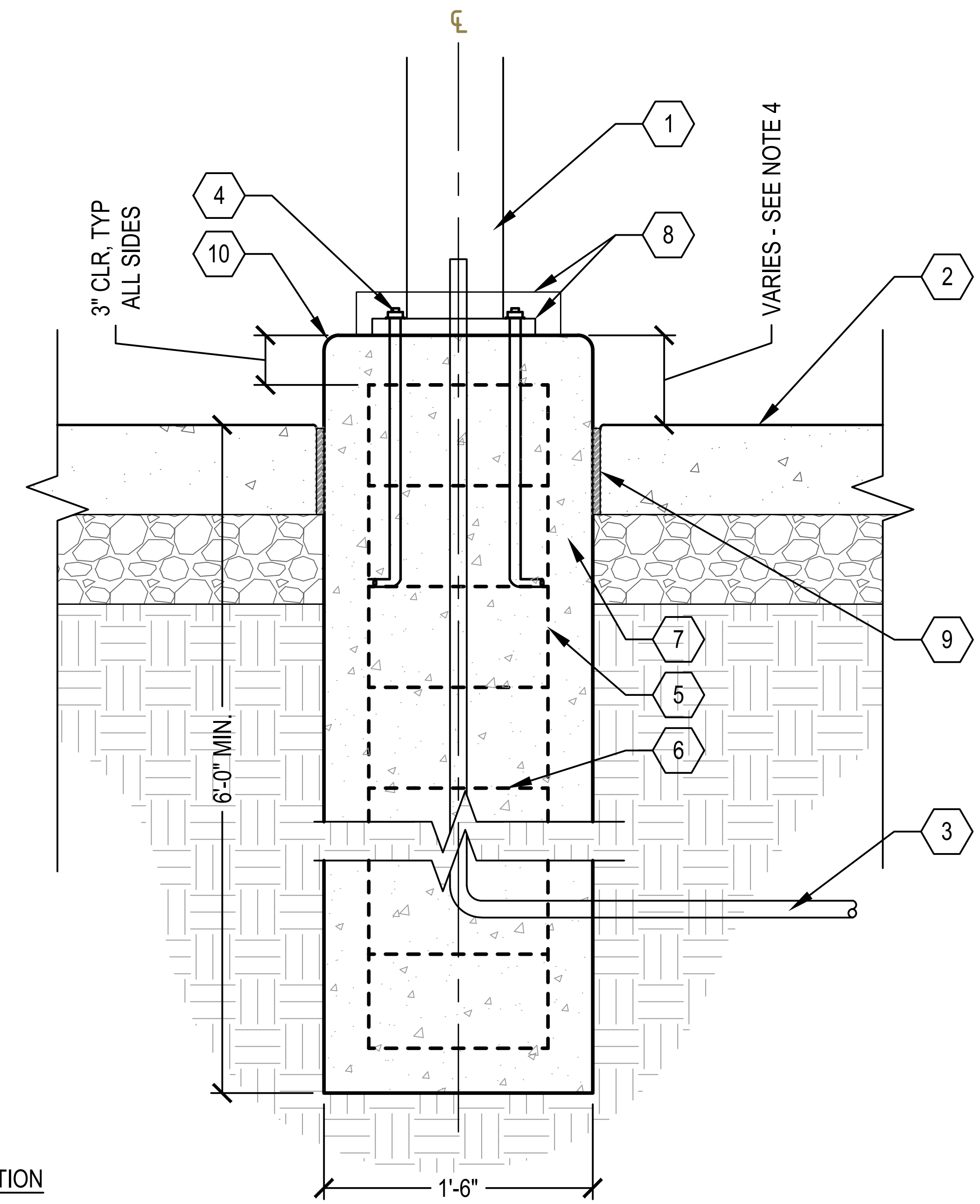
NOTES

1. IF REQUIRED, DEWATER EXCAVATION PRIOR TO PLACING CONCRETE.
2. SMOOTH-AS-CAST FINISH ALL EXPOSED SURFACES.
3. COORDINATE CITY INSPECTION PRIOR TO PLACING CONCRETE.
4. TOP OF FOOTING (TF) ELEVATION VARIES BY LOCATION:

AT PAVEMENTS: TF = ADJACENT FINISH SURFACE + 4"
AT LAWNS AND AT-GRADE LANDSCAPE BEDS: TF = ADJACENT FINISH GRADE + 4"
AT RAISED PLANTERS: TF = TOP OF PLANTER WALL - 1"



PLAN



SECTION

1 TYPE 1 AND TYPE 2 LIGHT POLE FOOTING

SCALE: 1" = 1'

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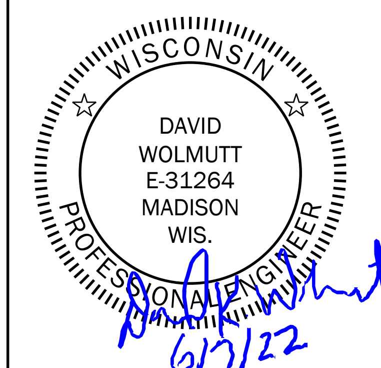

SITE DETAILS
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ISSUED WITH

-
DRAWING REFERENCE

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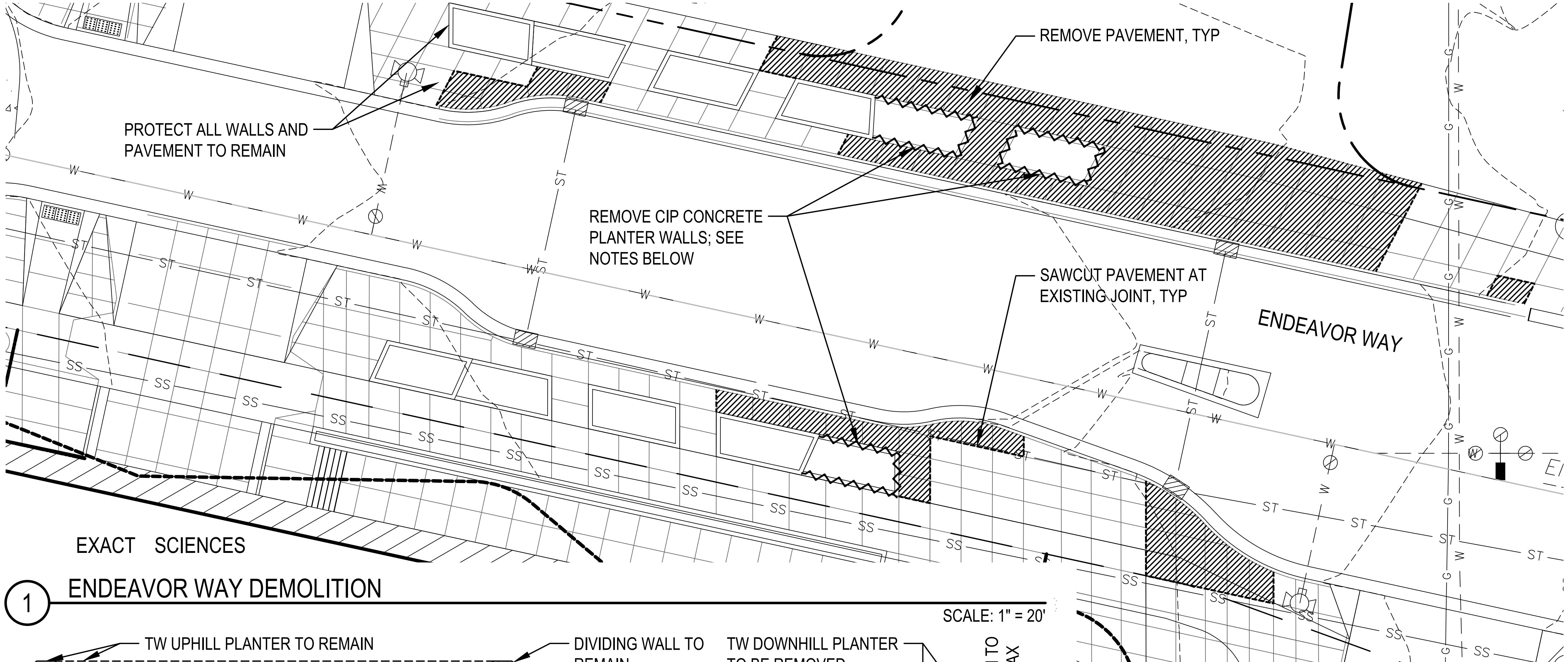
06/07/2022

URP - ELEMENT COLLECTIVE
PROJECT NAME

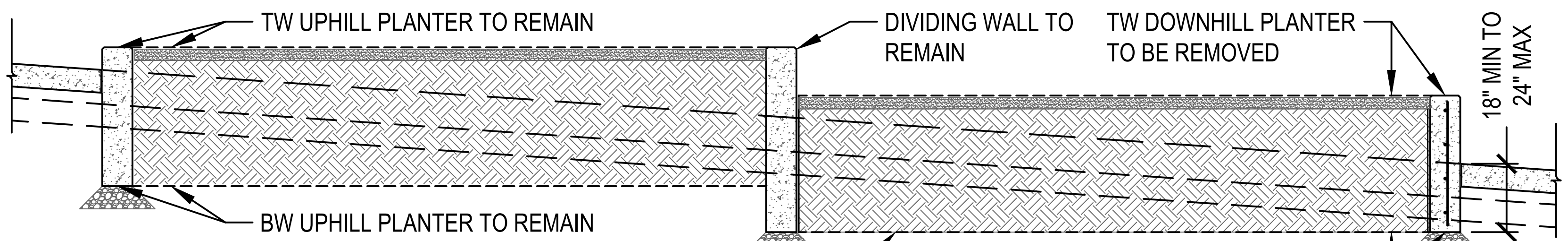
12748
PROJECT NUMBER

L5.09
DRAWING NUMBER

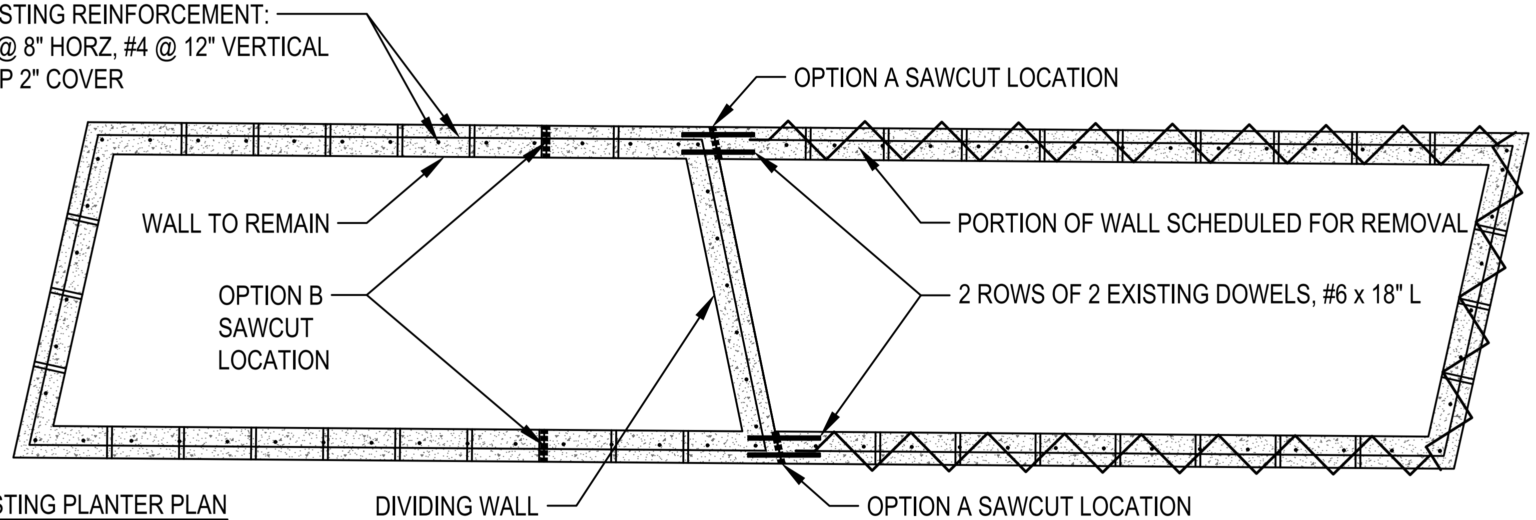


1 ENDEAVOR WAY DEMOLITION

SCALE: 1" = 20'



EXISTING PLANTER SECTION



EXISTING PLANTER PLAN

PLANTER MODIFICATION STRATEGIES

OPTION A (PREFERRED APPROACH): SAWCUT AT PLANTER STEP PARALLEL WITH EAST FACE OF DIVIDING WALL. CORE AND REMOVE DOWELS. COORDINATE WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE FOR ON-SITE REVIEW OF EXPOSED WALL AFTER DEMOLITION. IF APPERANCE OF EXPOSED WALL IS ACCEPTABLE, PATCH CORED DOWELS AND CLEAN WALL TO REMAIN. IF APPEARANCE OF EXPOSED WALL IS NOT ACCEPTABLE, PROCEED WITH OPTION B.

OPTION B: IF NEWLY EXPOSED EAST FACE IS UNFINISHED/ UNPRESENTABLE, OR WALL REMOVAL DAMAGES NEWLY EXPOSED FACE BEYOND PRACTICAL REPAIR, SAW CUT WALL TO REMAIN AT LOCATIONS SHOWN OR ALTERNATIVE LOCATIONS AS COORDINATED WITH LANDSCAPE ARCHITECT. REPOUR WALL TO REMAIN AND PROVIDE REINFORCEMENT AND FINISH TO MATCH EXISTING.

NOTE: IN SOME INSTANCES A CONCRETE LEVELING SLAB MAY HAVE BEEN SUBSTITUTED FOR A COMPACTED AGGREGATE BASE FOUNDATION DURING WALL CONSTRUCTION. IF LEVELING SLAB IS ENCOUNTERED, SAW CUT AND REMOVE PER EXTENTS INDICATED.

2 ENDEAVOR WAY PLANTER DEMOLITION AND MODIFICATIONS

SCALE: NTS

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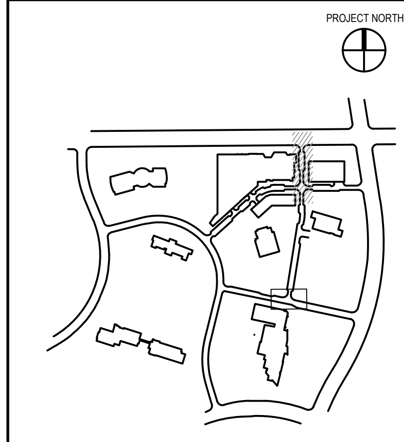
KEY PLAN



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David Wolmutt
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ENDEAVOR WAY DEMOLITION AND PLANTER MODIFICATIONS
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DRAWING SCALE

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URP - ELEMENT COLLECTIVE
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12748
PROJECT NUMBER

L5.10
DRAWING NUMBER

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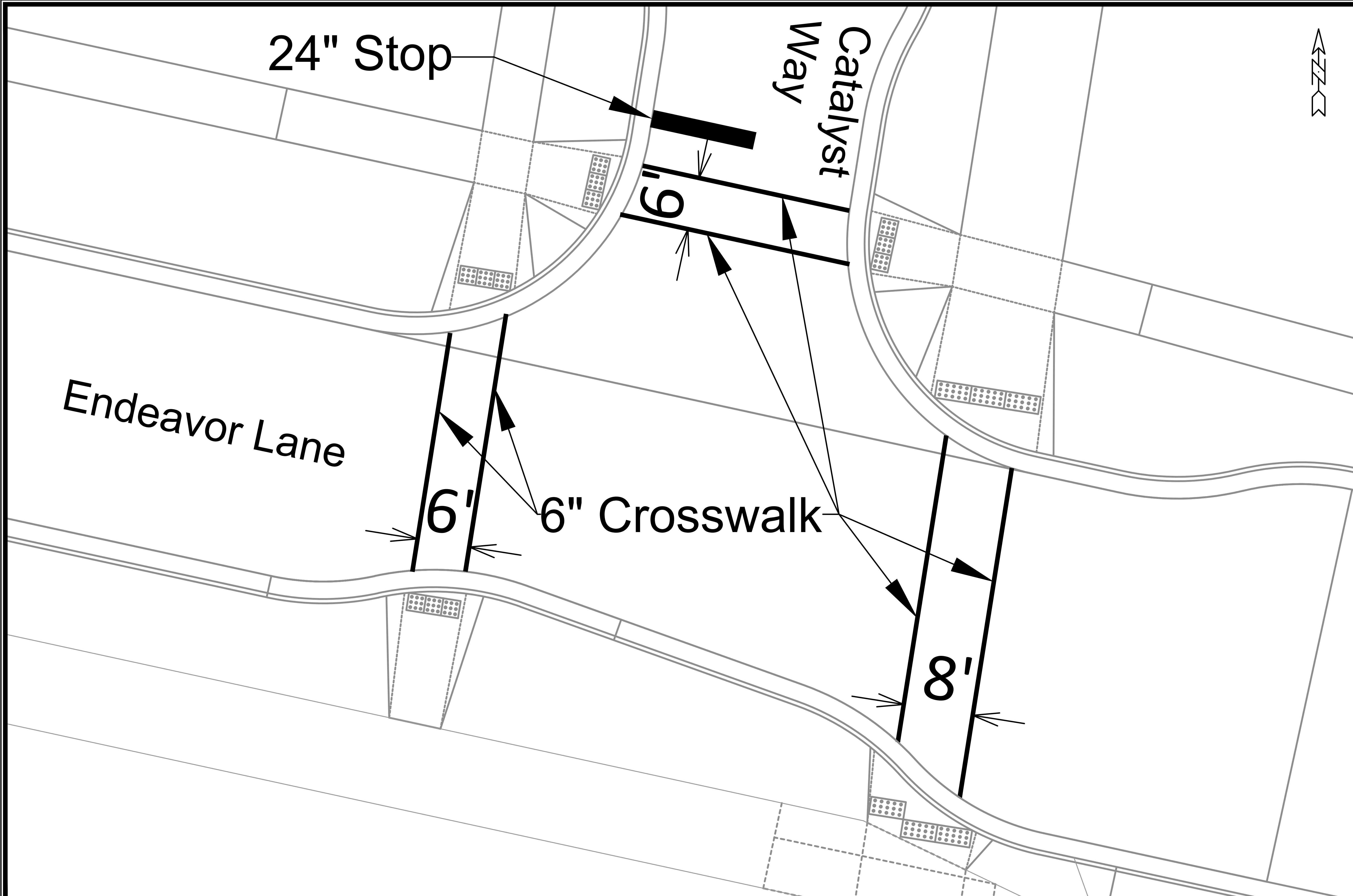

MARKING PLAN 13355

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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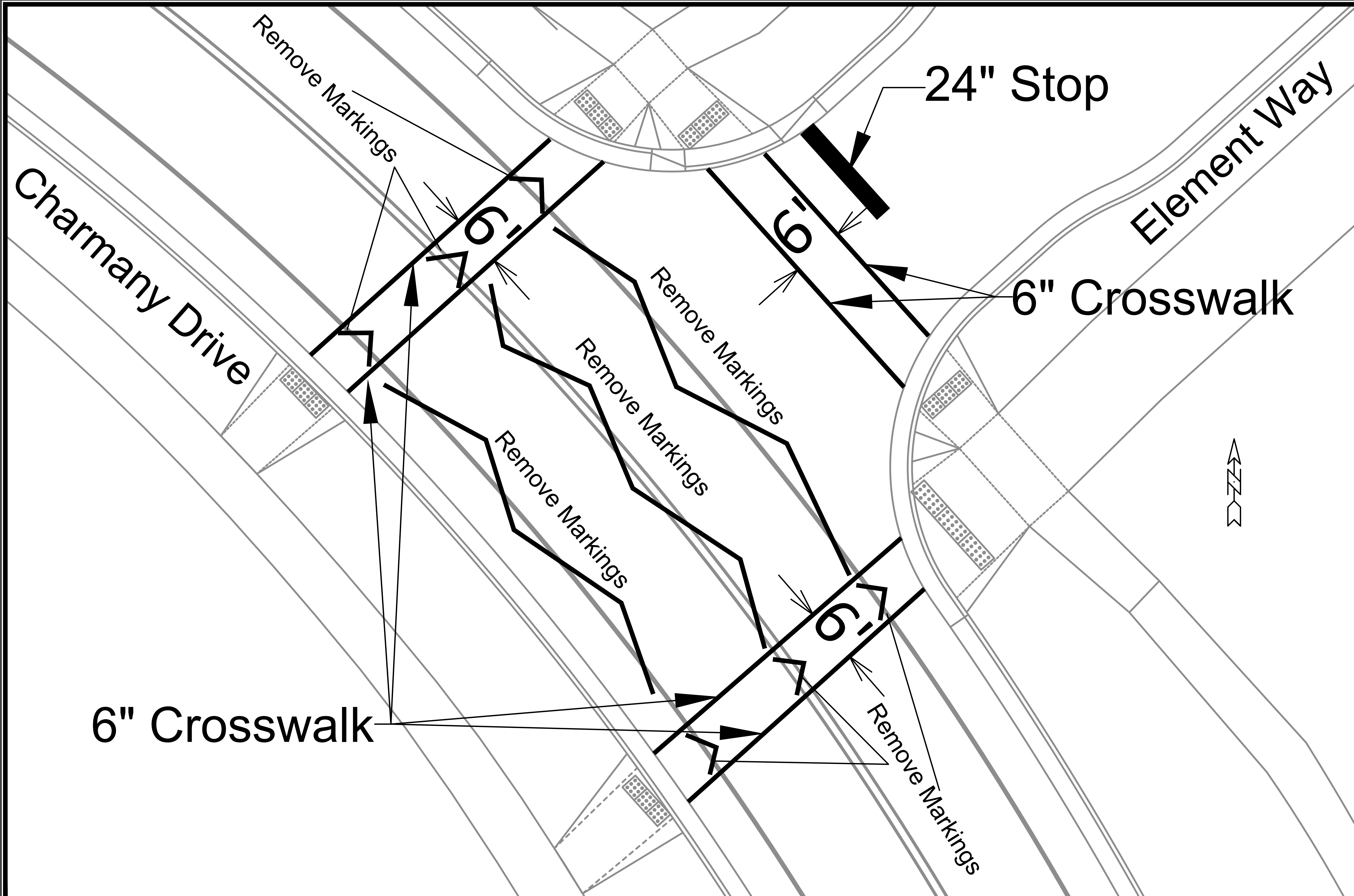
13355 M-1

CITY OF MADISON WISCONSIN

13355

M-1



MARKING PLAN	13355
UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE	MADISON, WI
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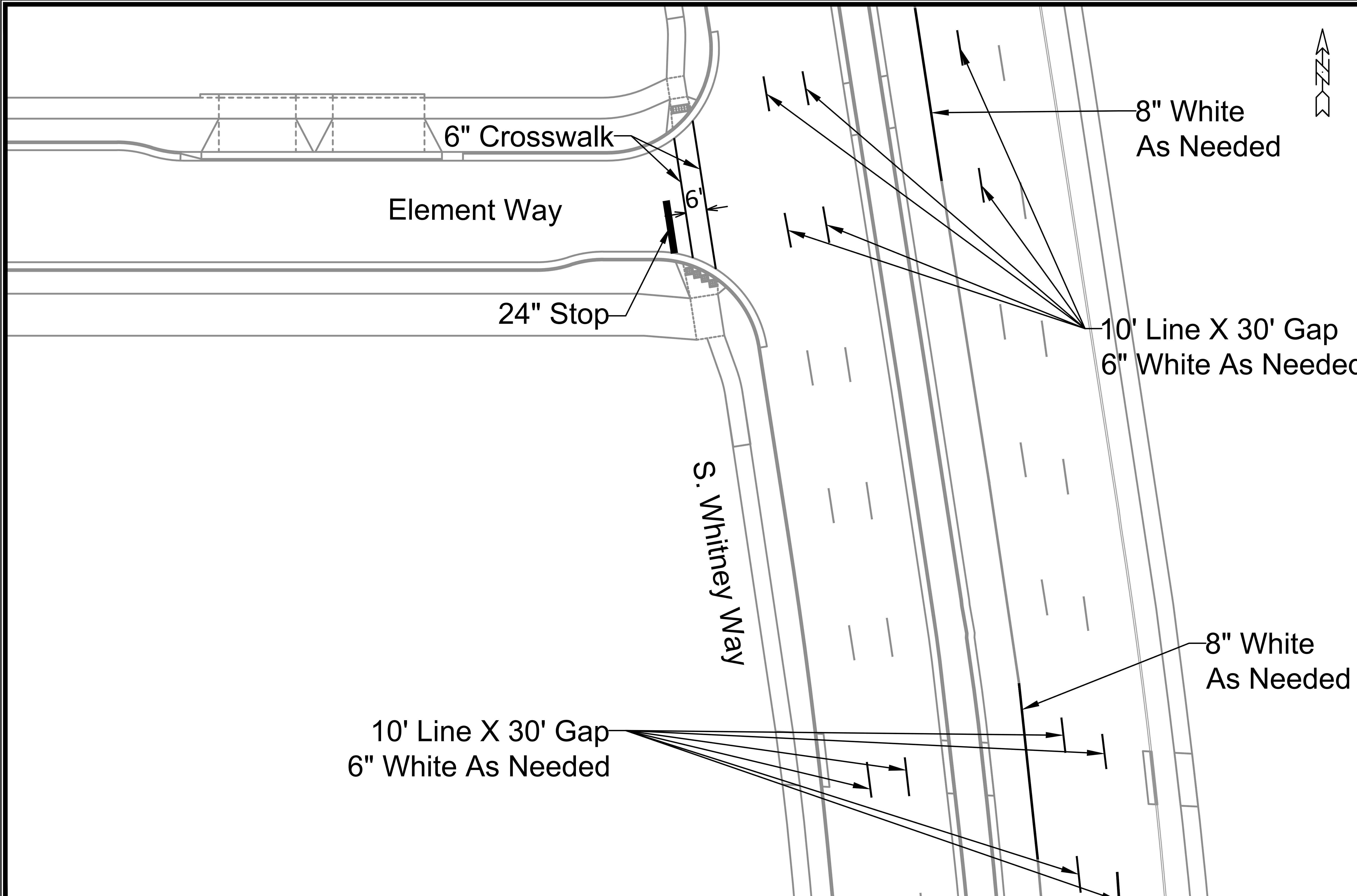
13355 | M-2

13355

M-2



MARKING PLAN

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

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MADISON, WI

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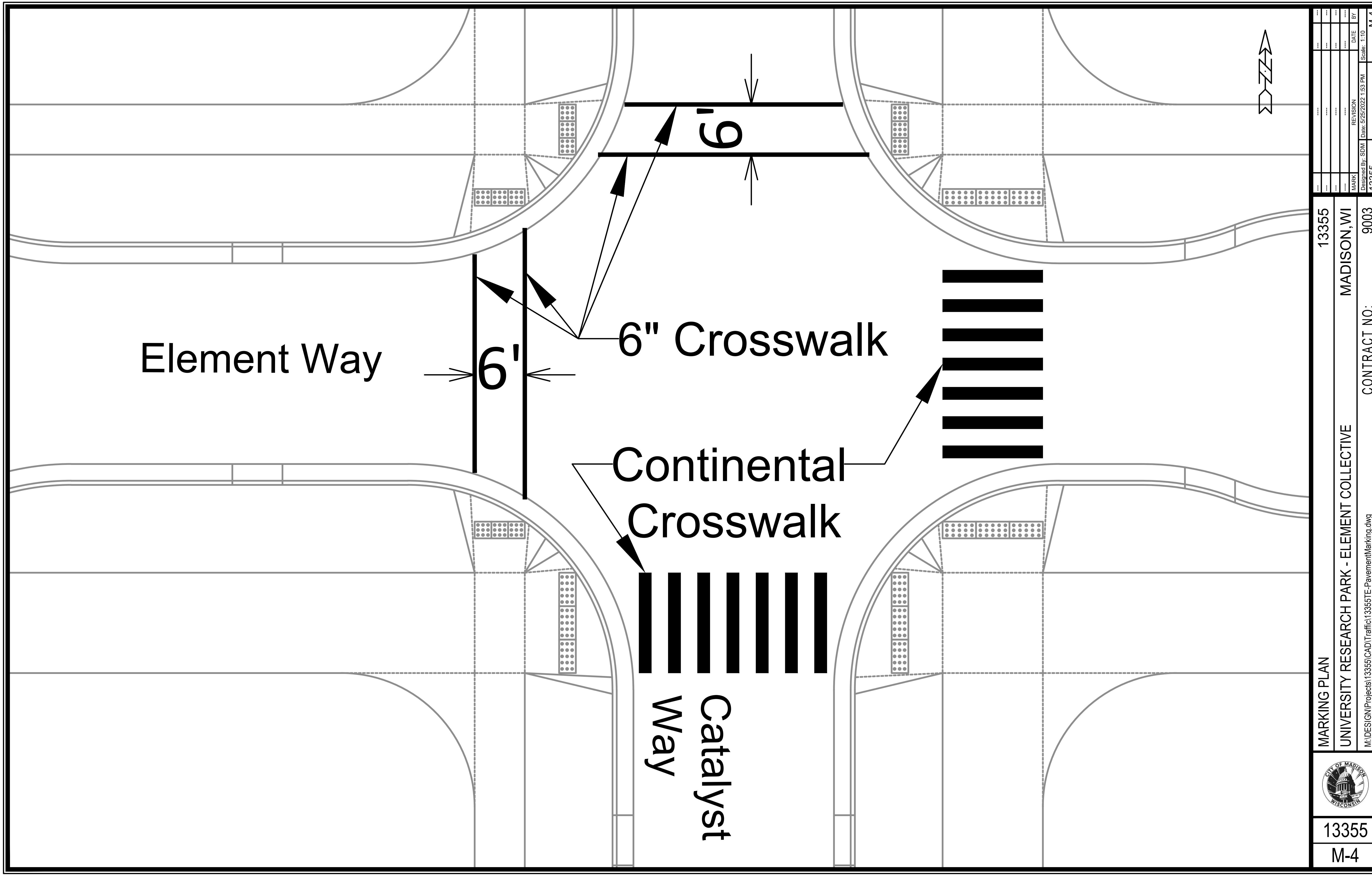
13355 M-3

CITY OF MADISON WISCONSIN

13355

M-3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Element Way
6'
6" Crosswalk
Continental
Crosswalk
Catalyst
Way
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REVISION
DATE
BY
Designed By: SDM
Date: 5/25/2022 1:53 PM
Scale: 1:10
13355
M-4
13355
MADISON, WI
9003
CONTRACT NO:
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WISCONSIN
13355
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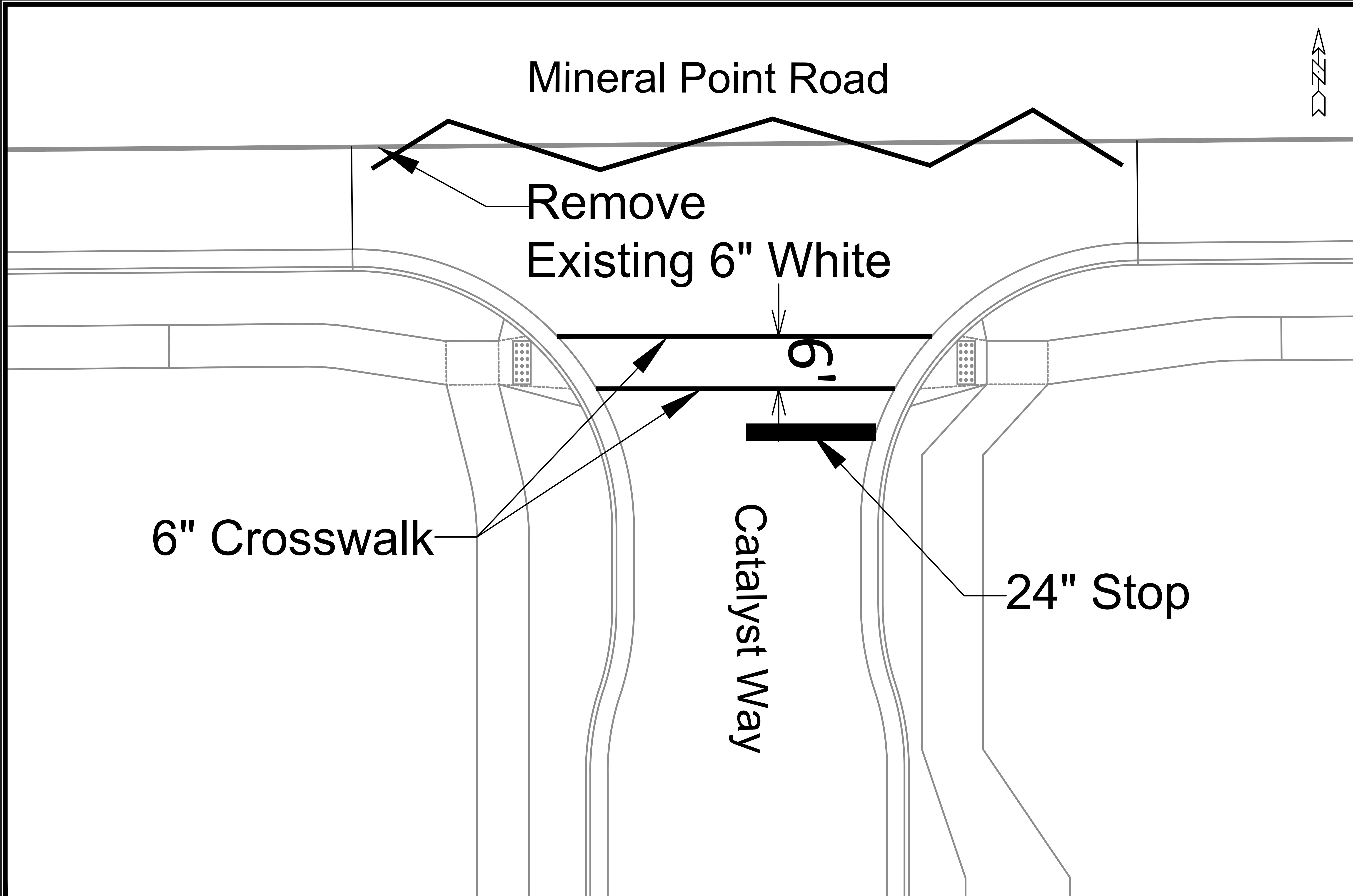

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13355 M-5

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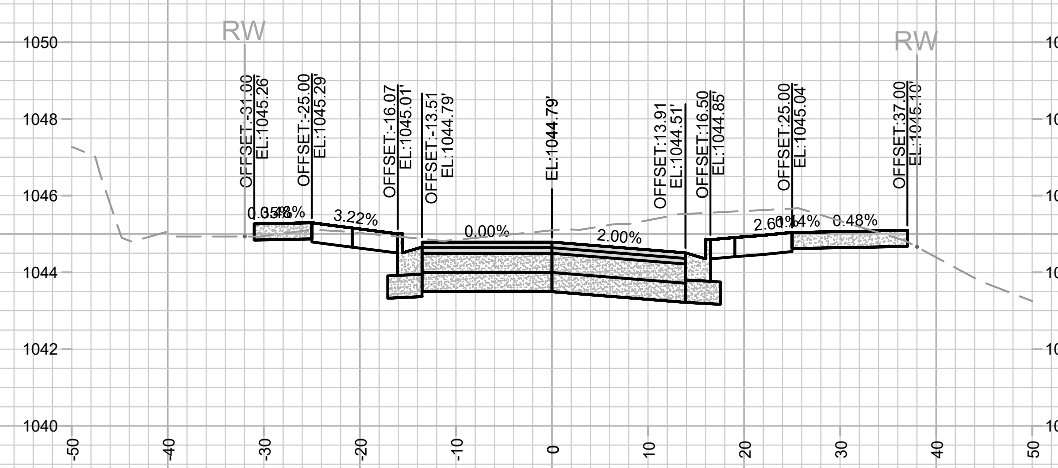
M-5



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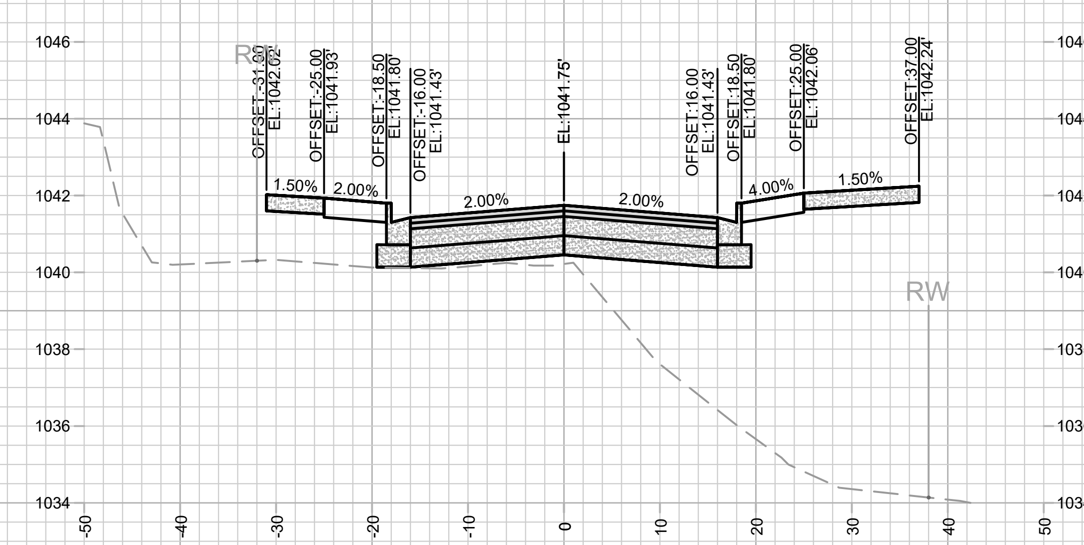

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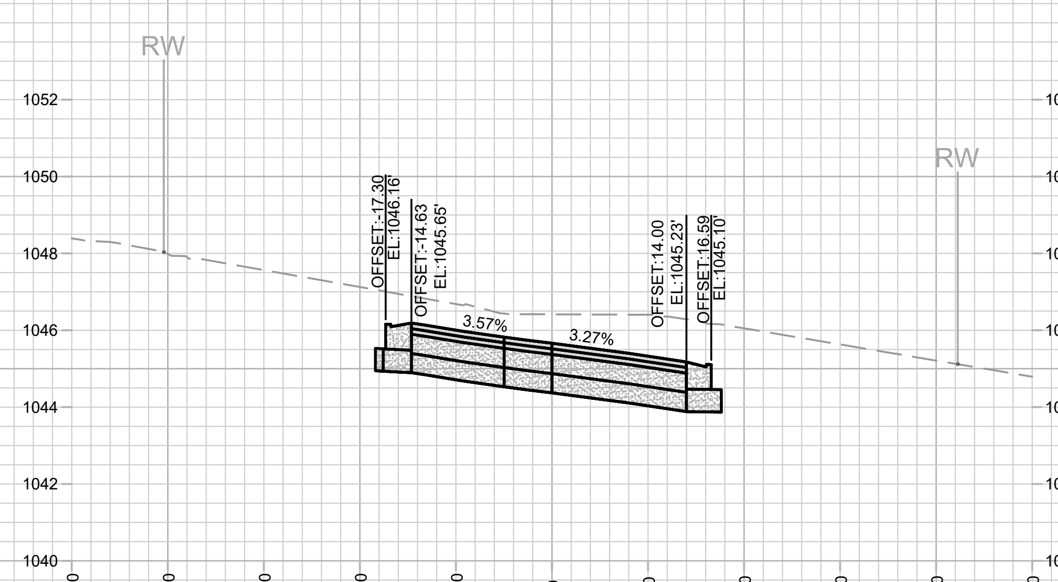

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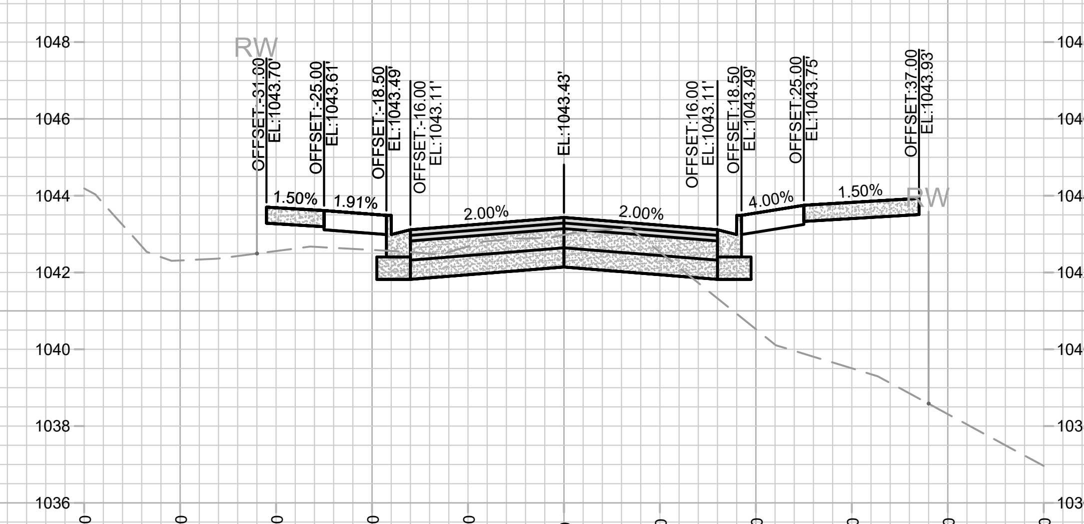

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Designed By: AJZ Date: 5/25/2022 1:55 PM Scale: ########

13355 X-1

ELEMENT WAY CROSS SECTIONS

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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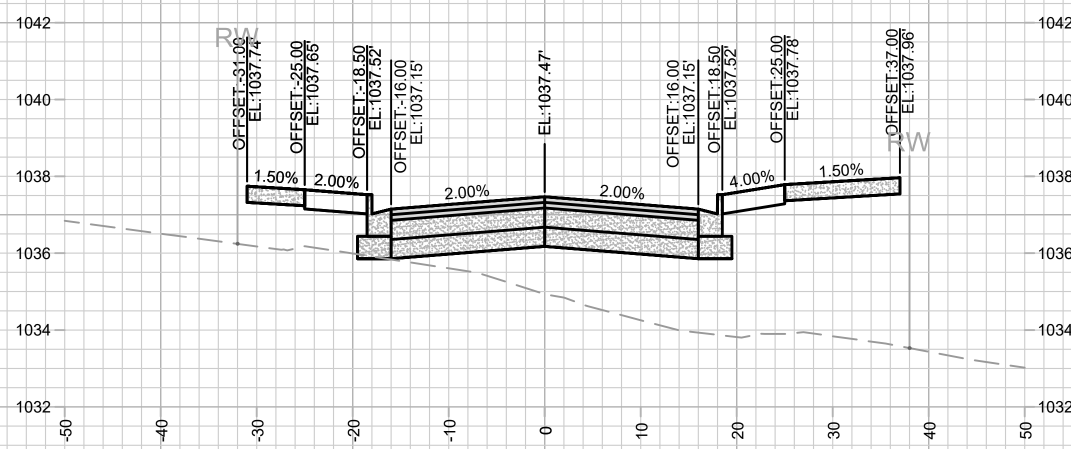
CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

13355

X-1



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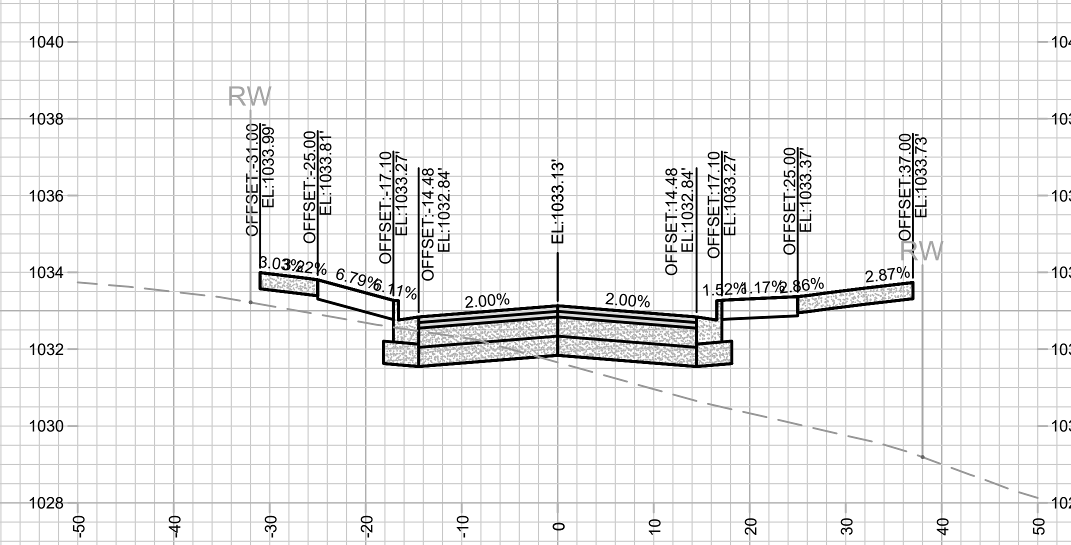

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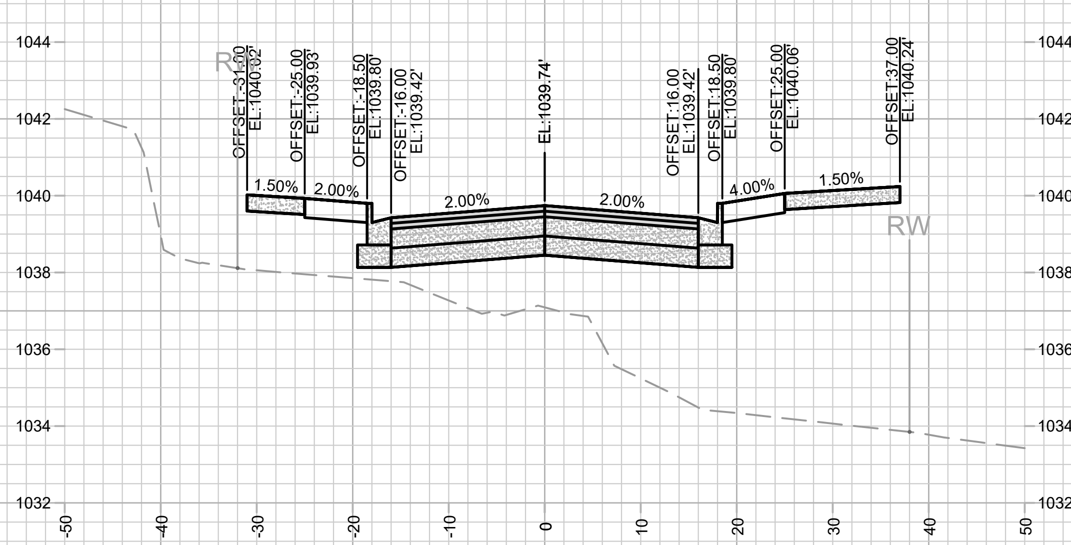

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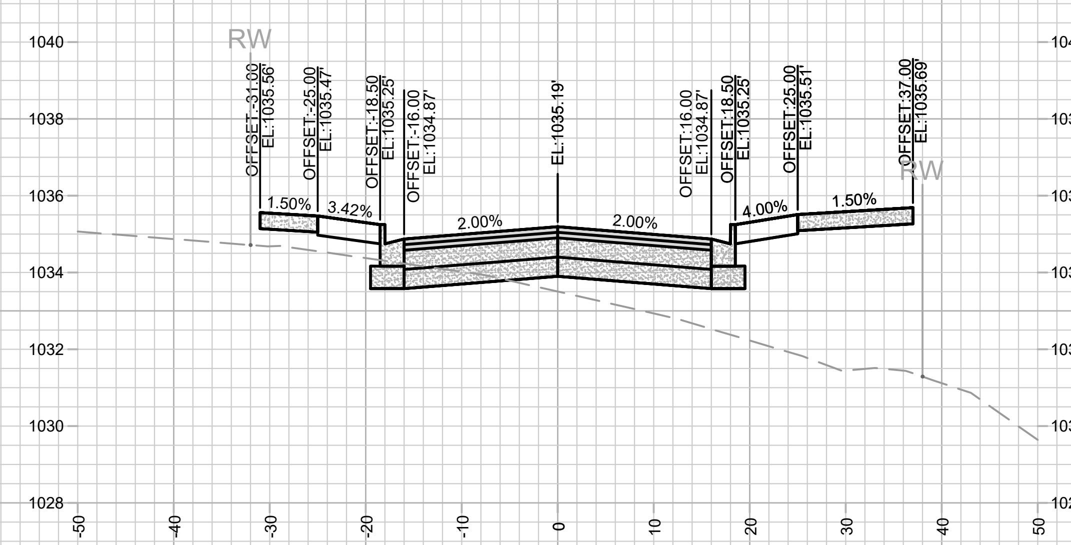

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13355 X-2

ELEMENT WAY CROSS SECTIONS 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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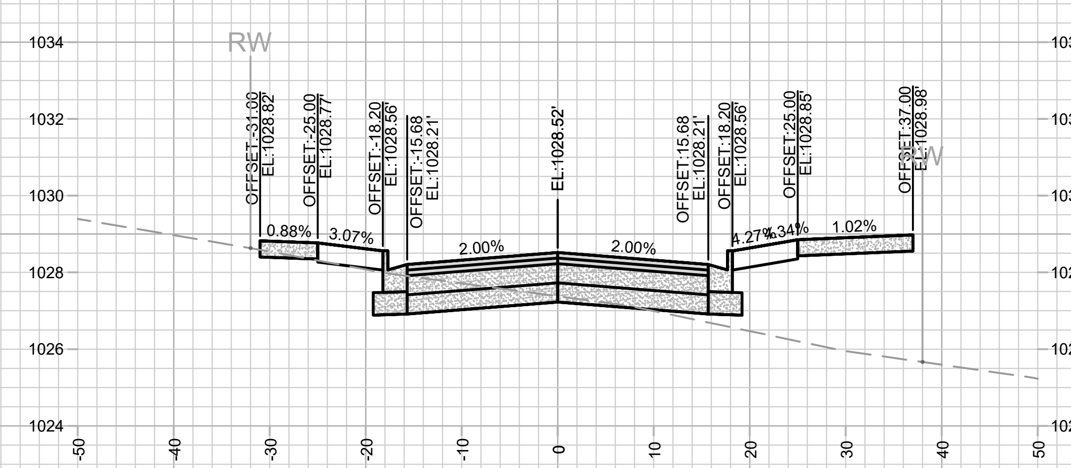
CITY OF MADISON WISCONSIN

13355

X-2

STA 103+58.24 DWY LT



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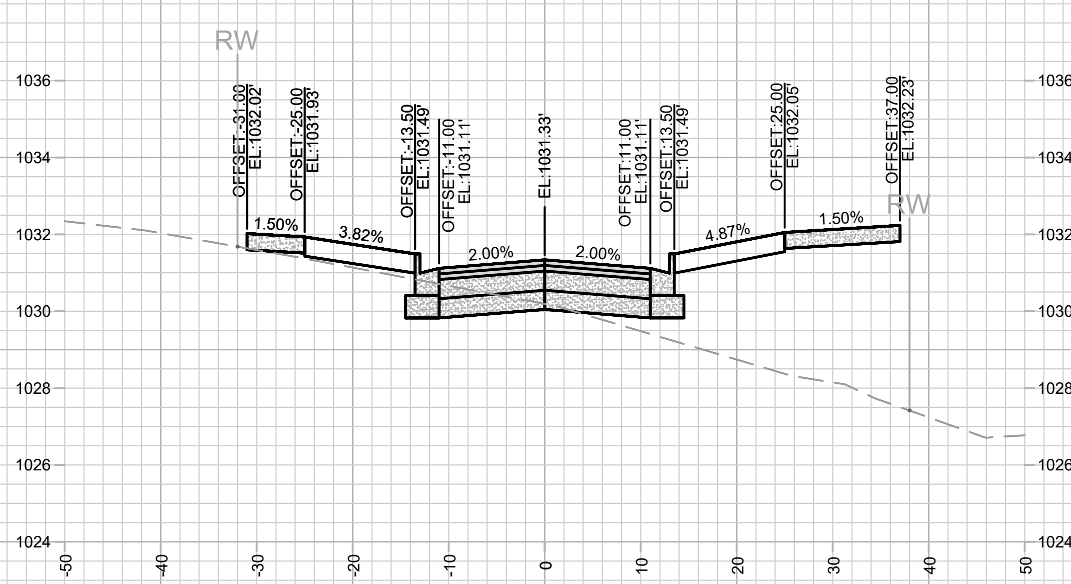

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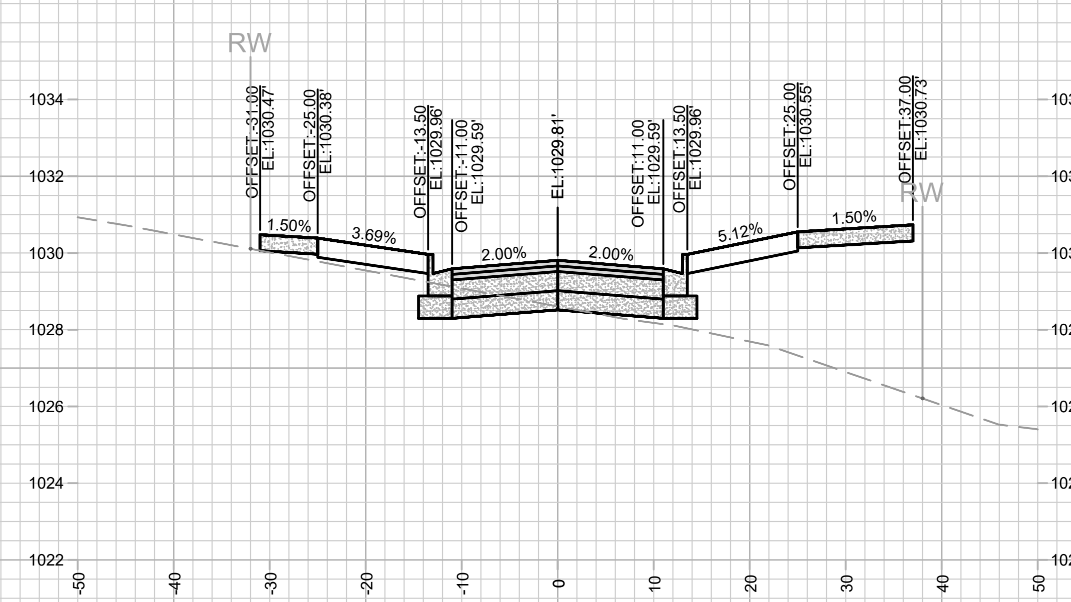

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13355 | X-3

ELEMENT WAY CROSS SECTIONS

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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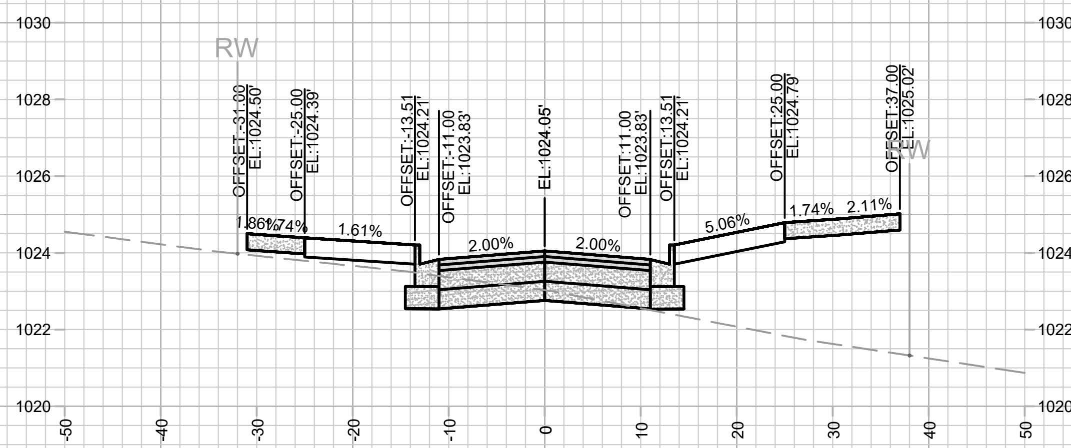
CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

13355

X-3



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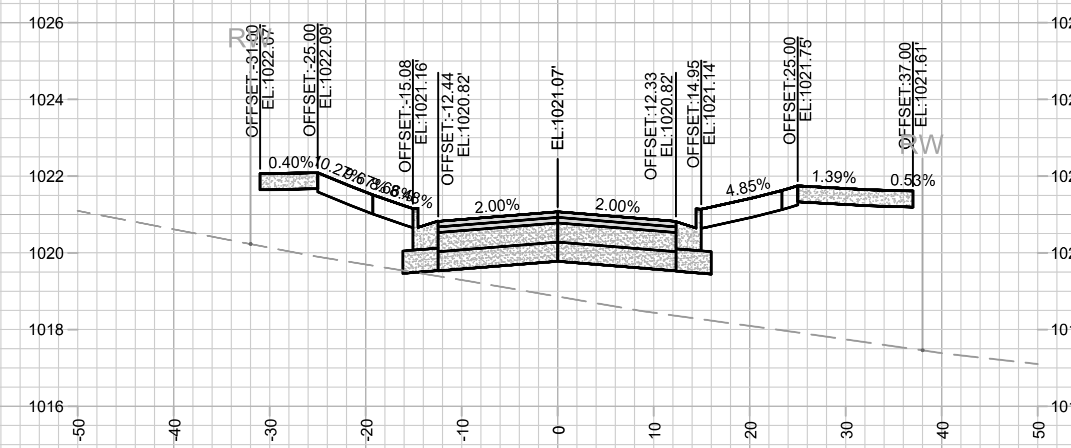

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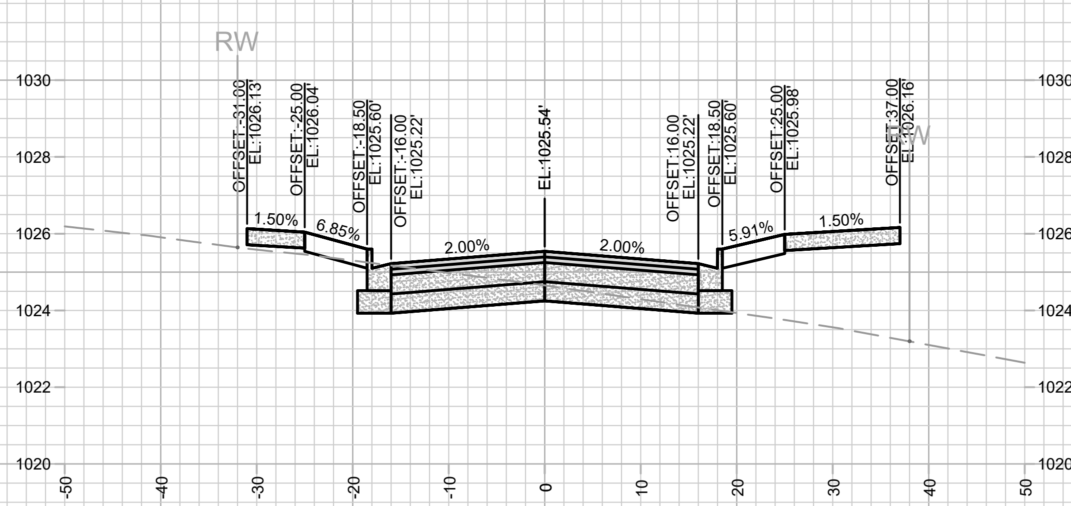

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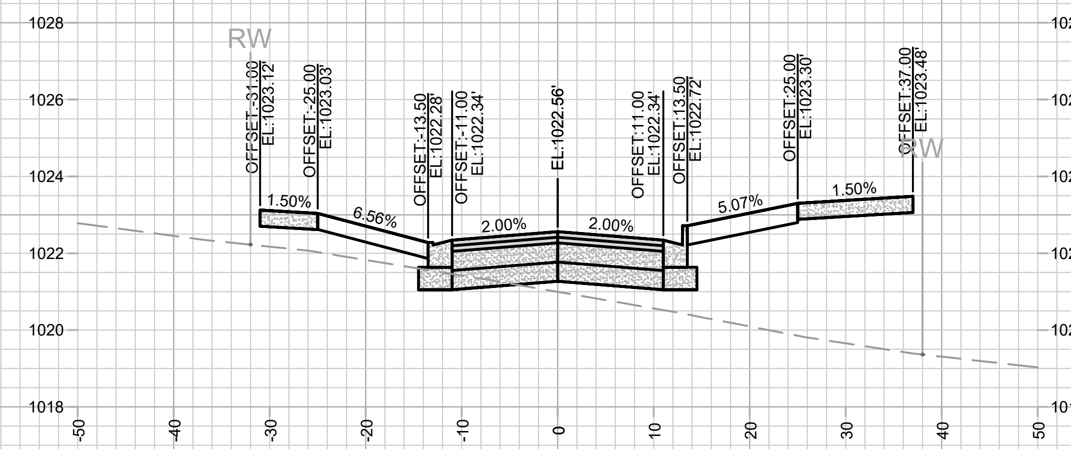

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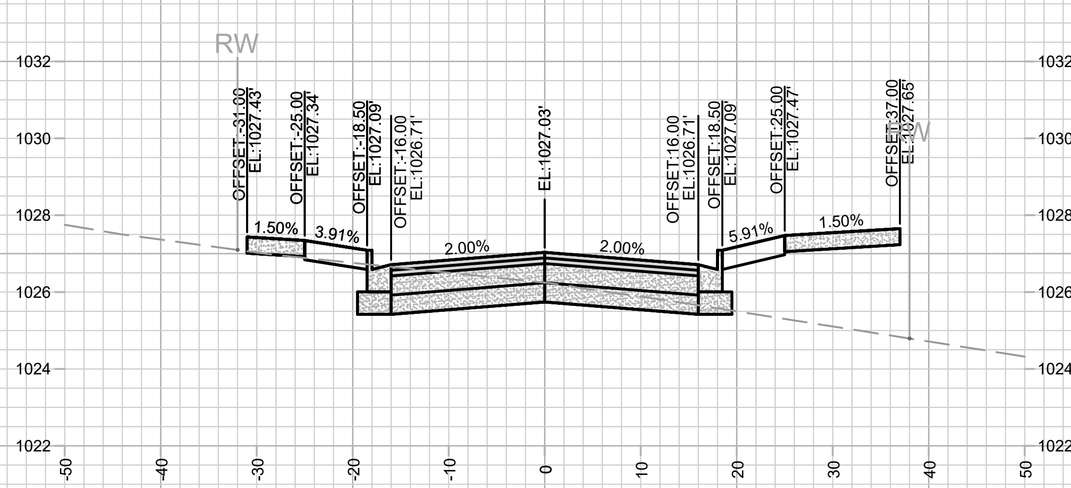

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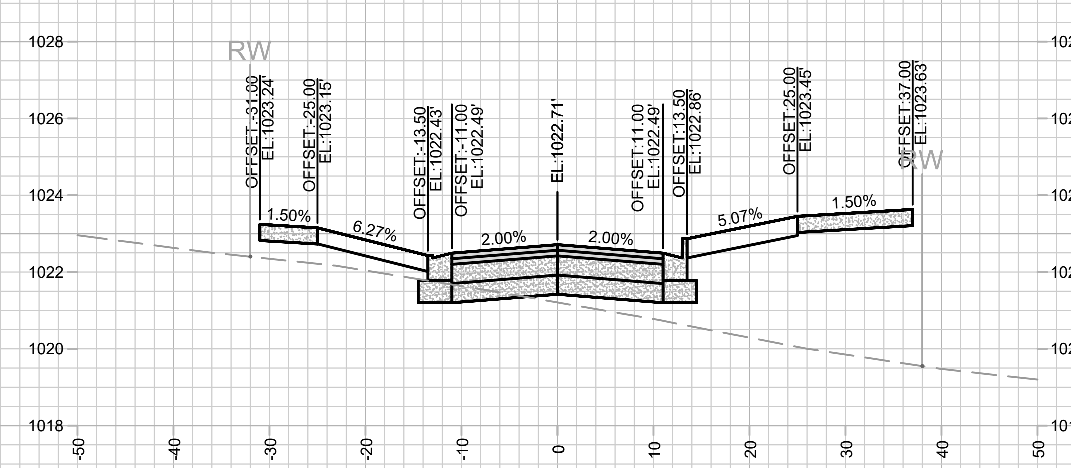

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X-4

13355

ELEMENT WAY CROSS SECTIONS

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UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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CITY OF MADISON WISCONSIN

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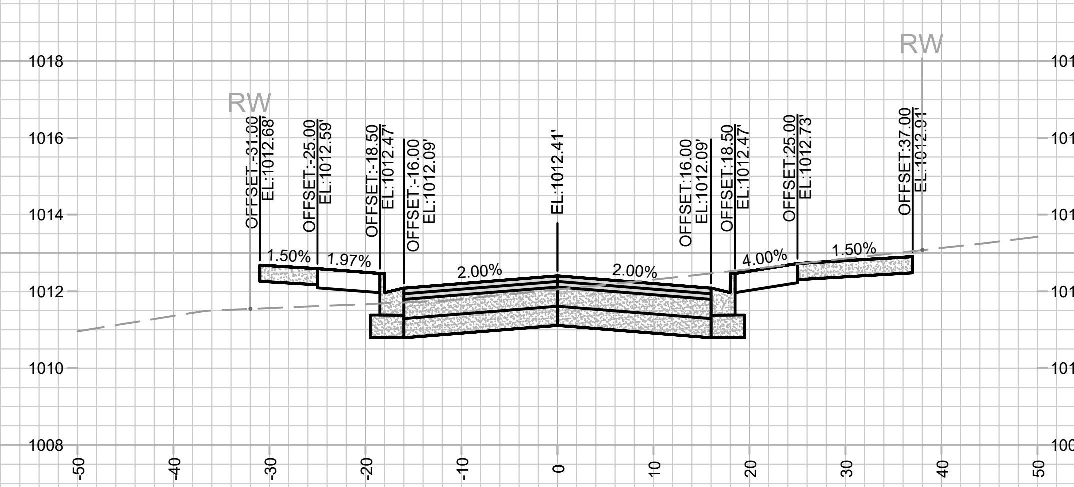
STA 106+00.00



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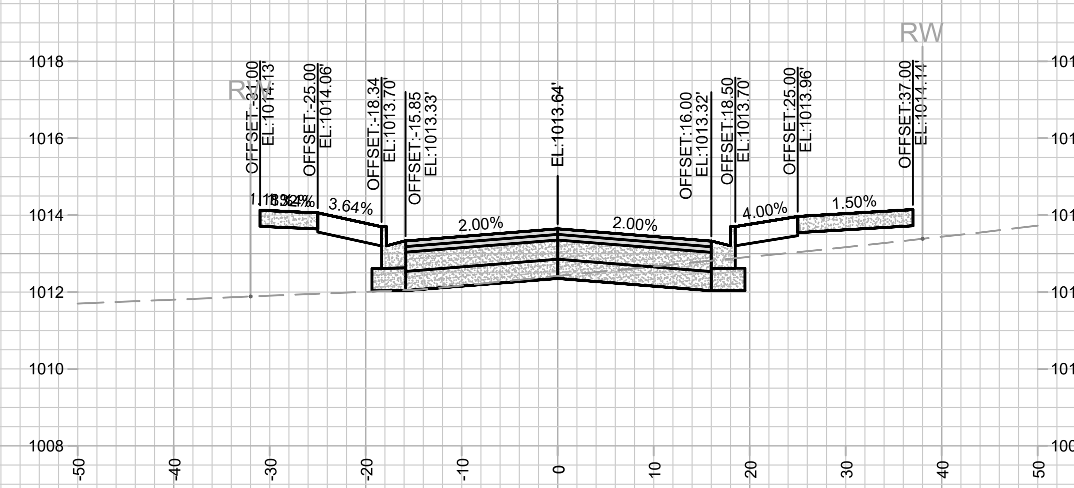

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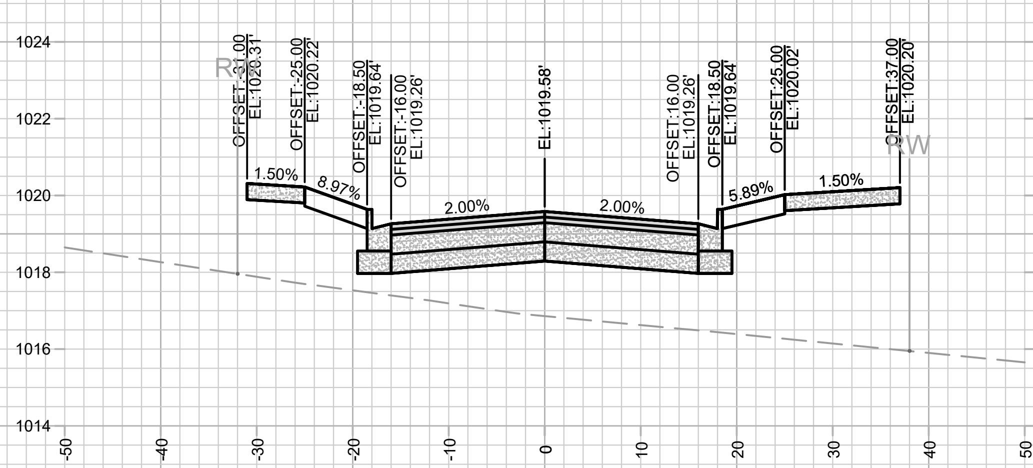

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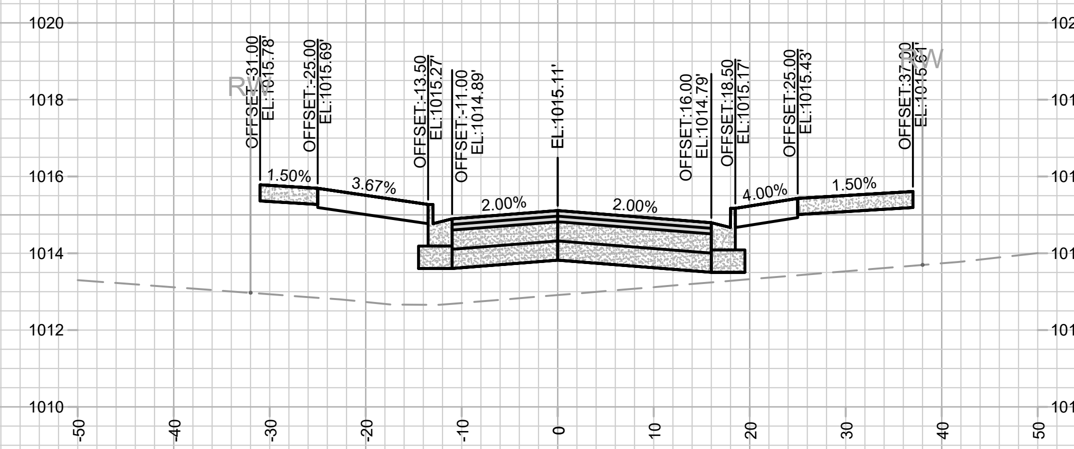

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13355 X-5

ELEMENT WAY CROSS SECTIONS 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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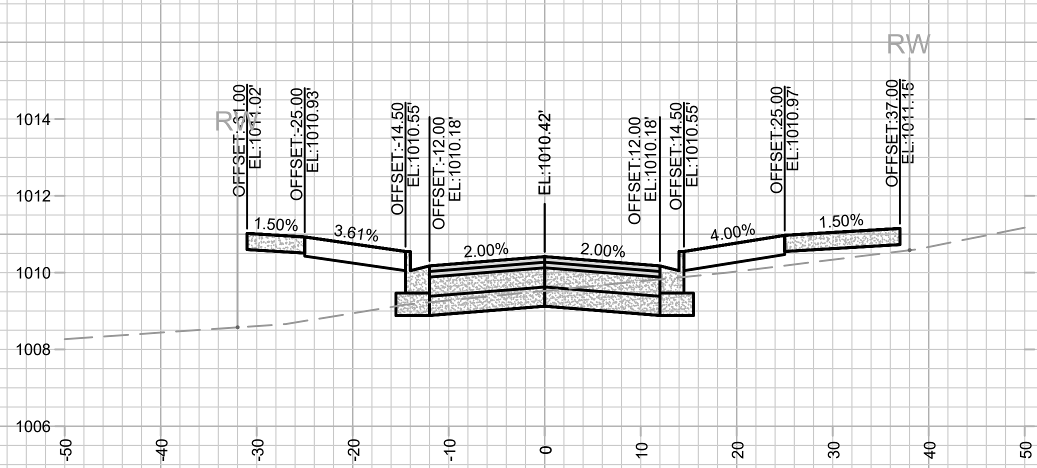
CITY OF MADISON WISCONSIN

13355

X-5



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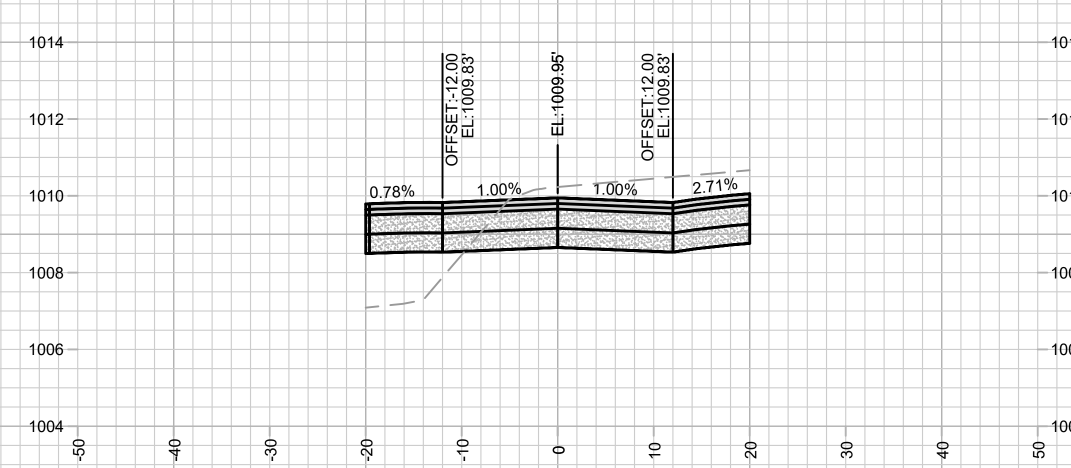

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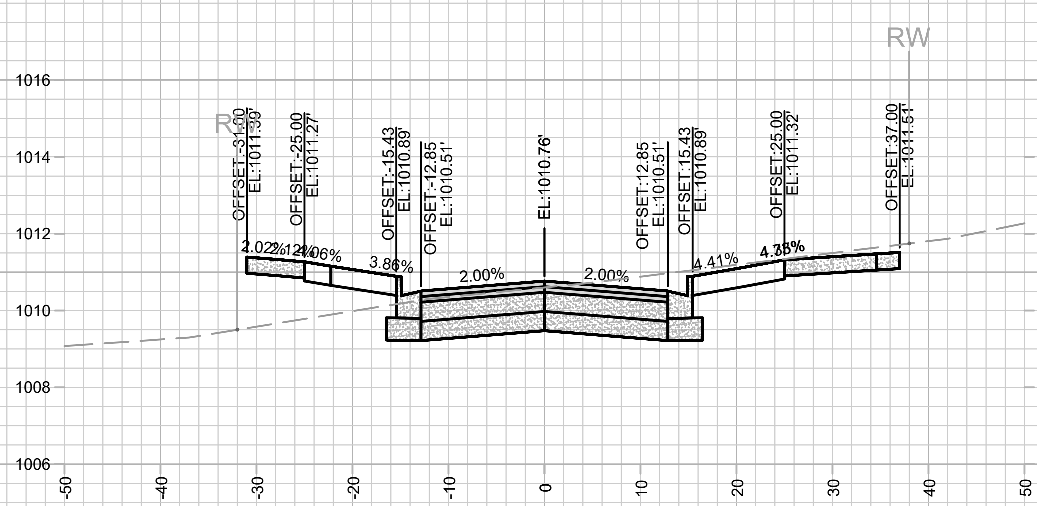

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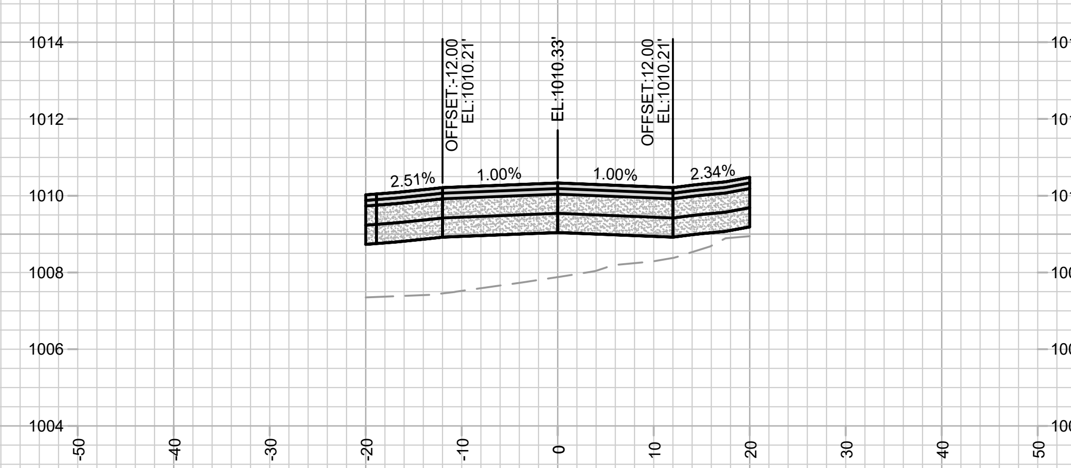

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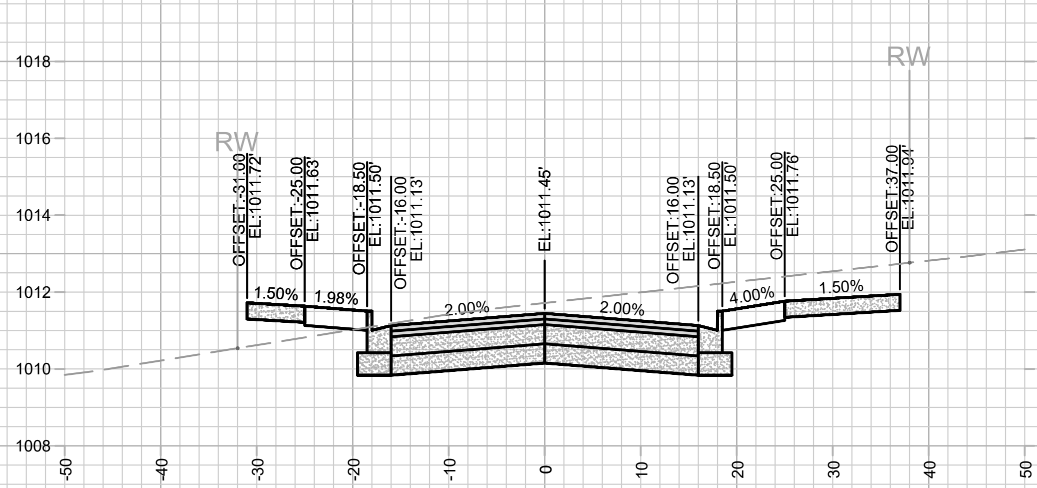

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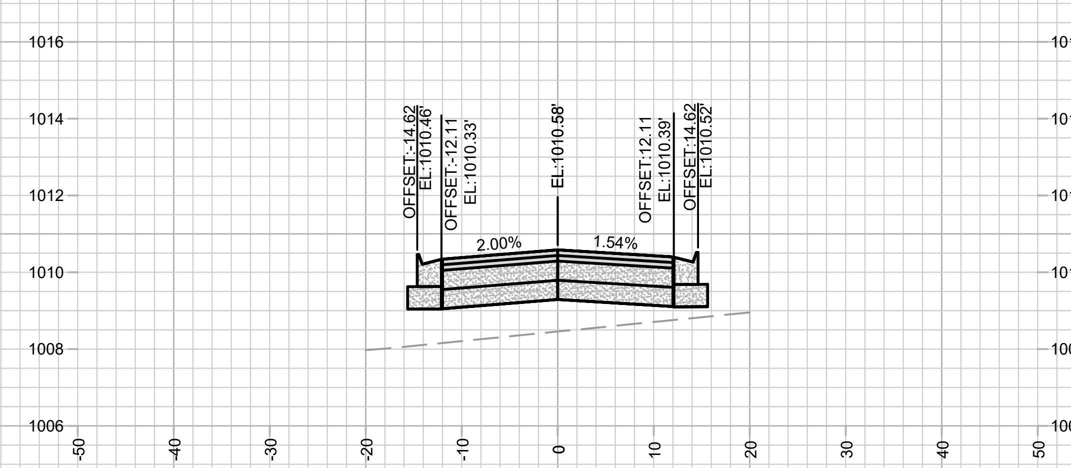

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ELEMENT WAY CROSS SECTIONS

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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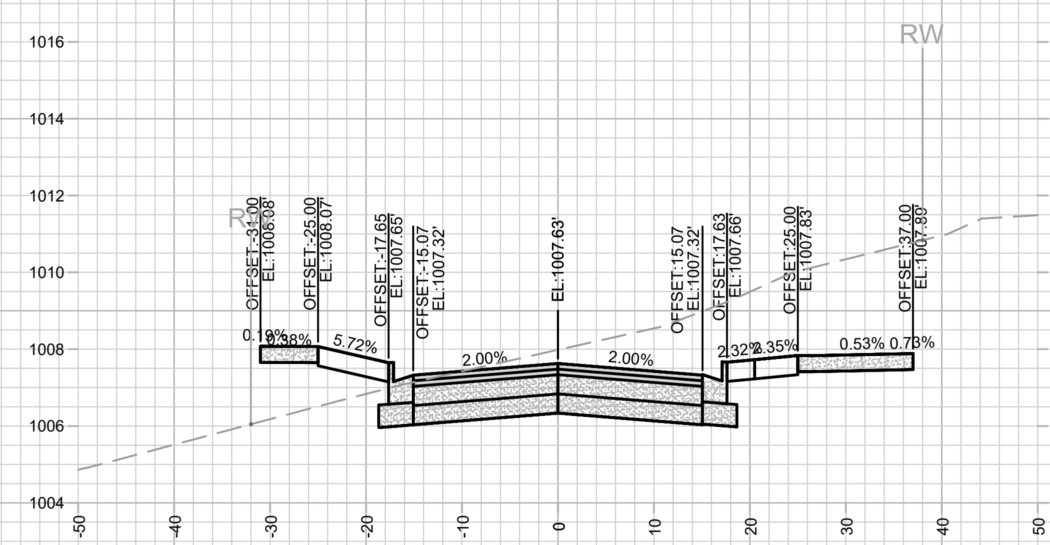
13355

CITY OF MADISON WISCONSIN

13355

X-6



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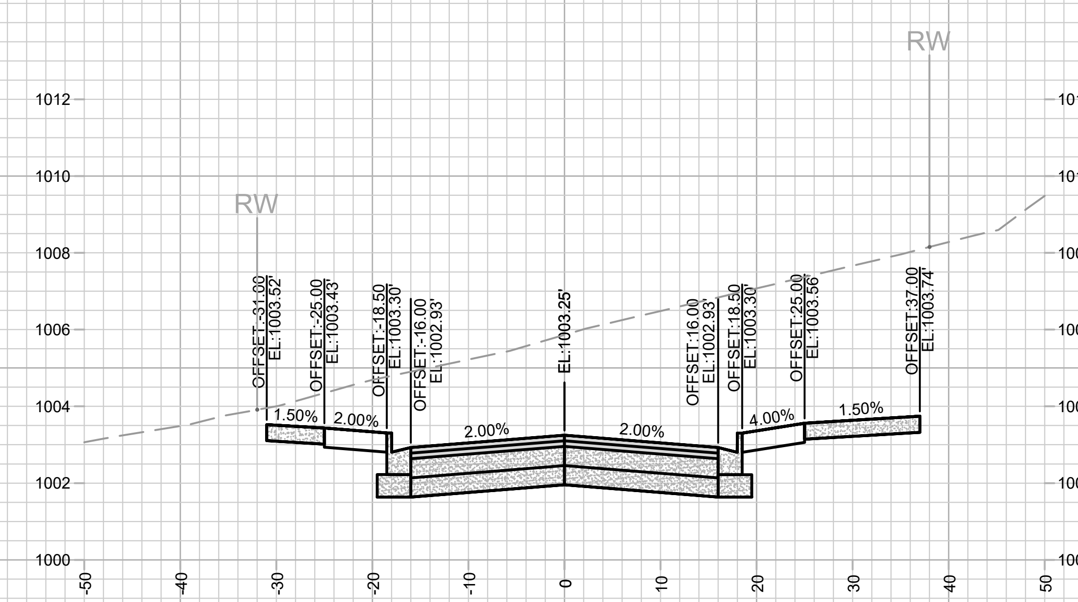

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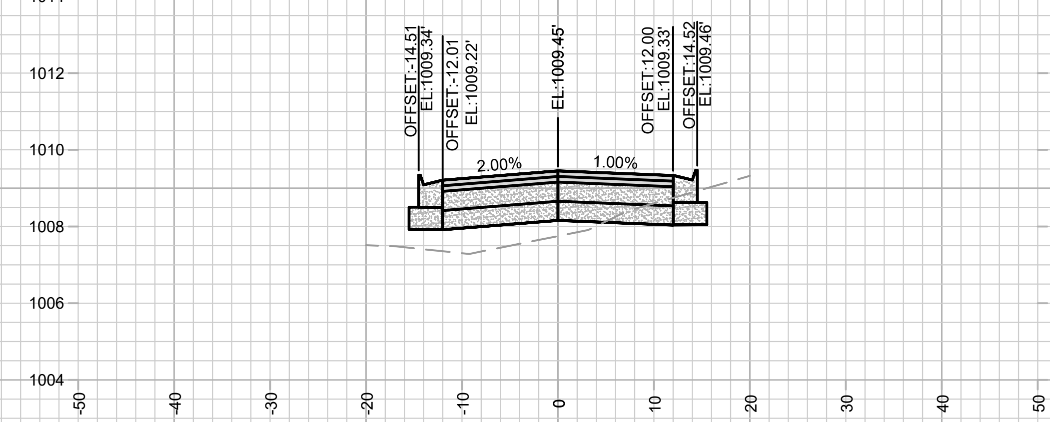

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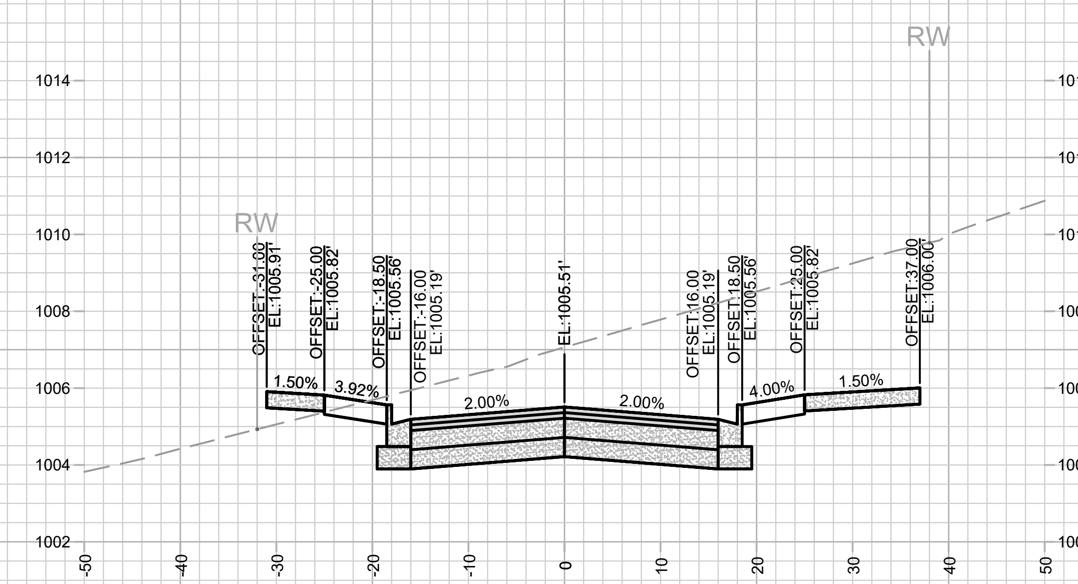

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13355 | X-7

13355

MADISON, WI

CONTRACT NO: 9003

ELEMENT WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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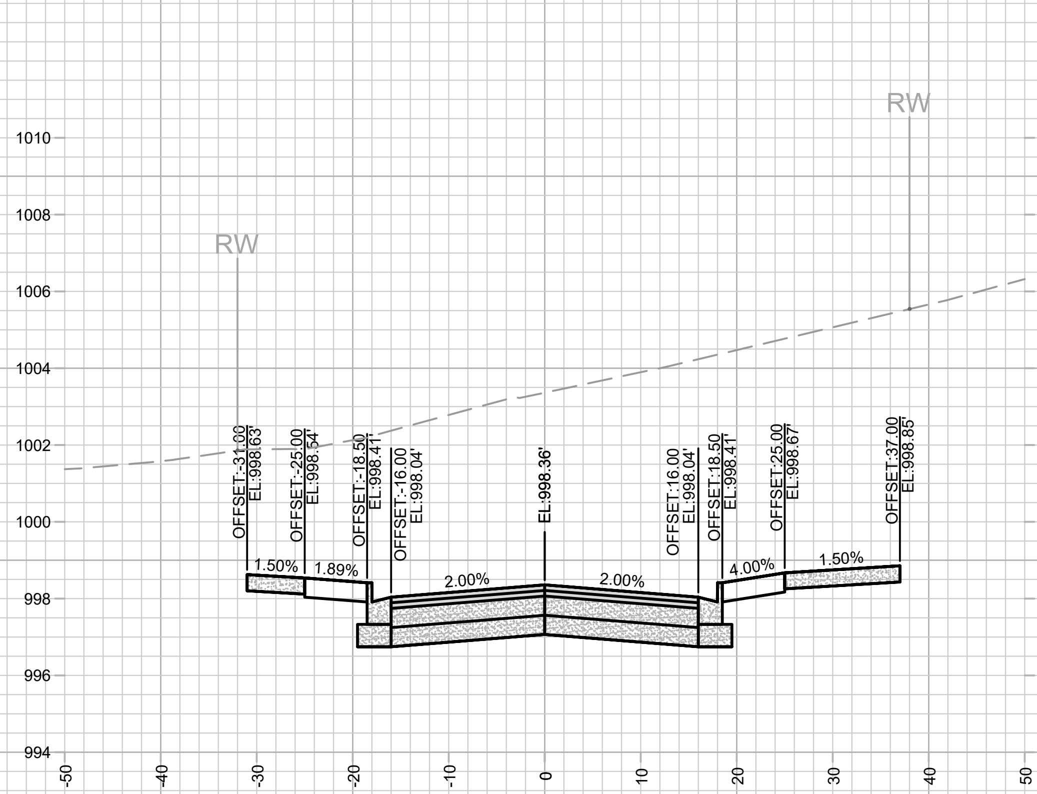
CITY OF MADISON WISCONSIN

13355

X-7



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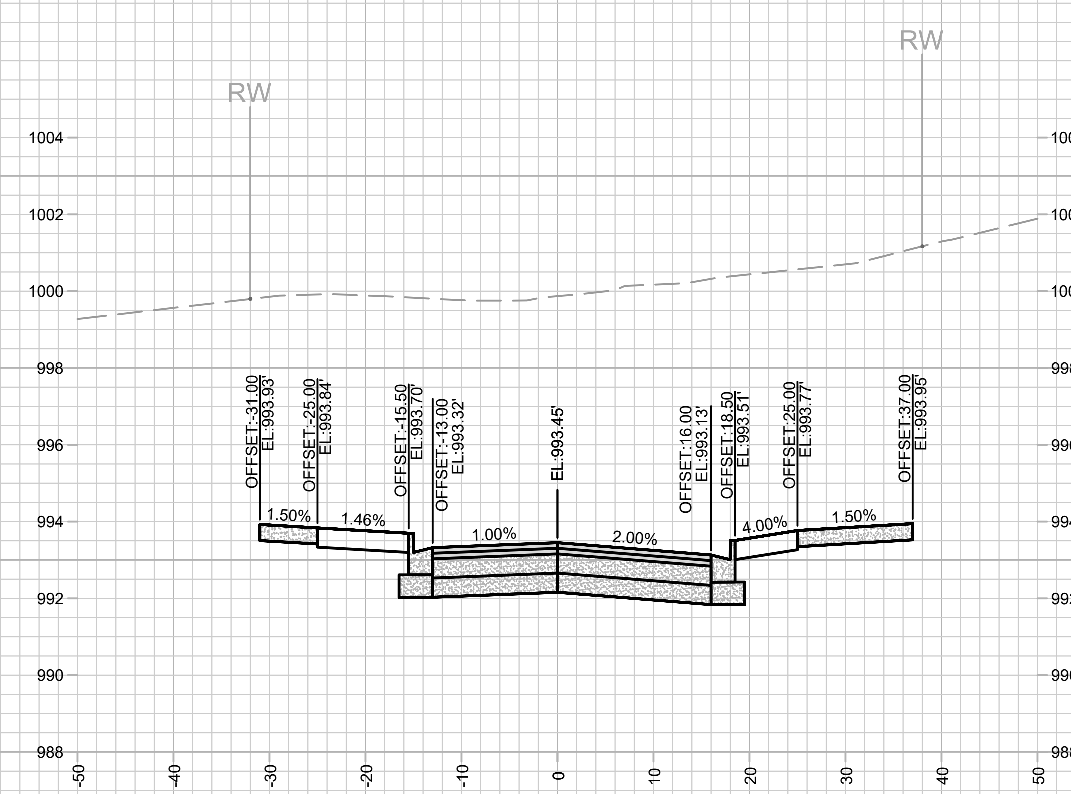

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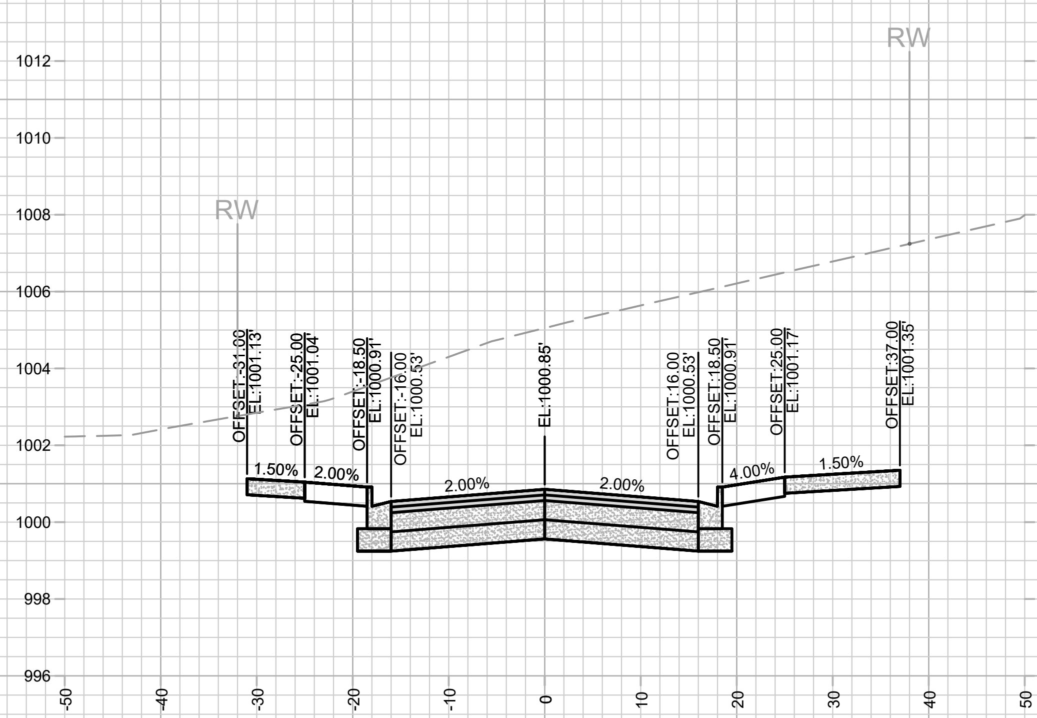

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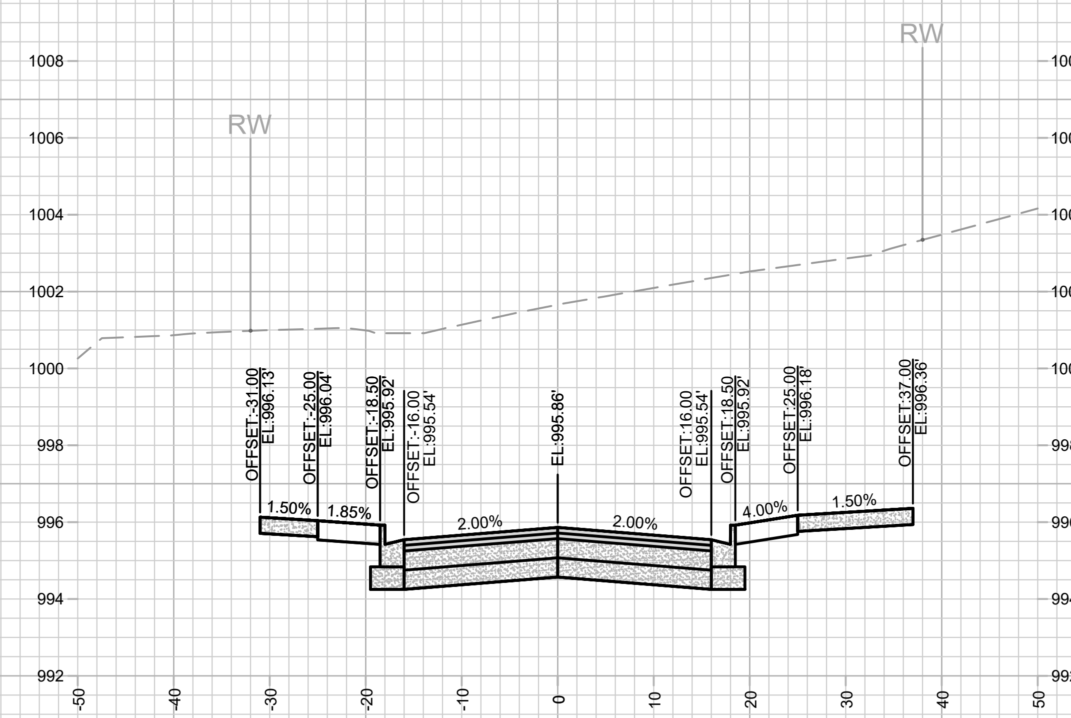

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13355 X-8

13355

MADISON, WI

CONTRACT NO: 9003

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

ELEMENT WAY CROSS SECTIONS

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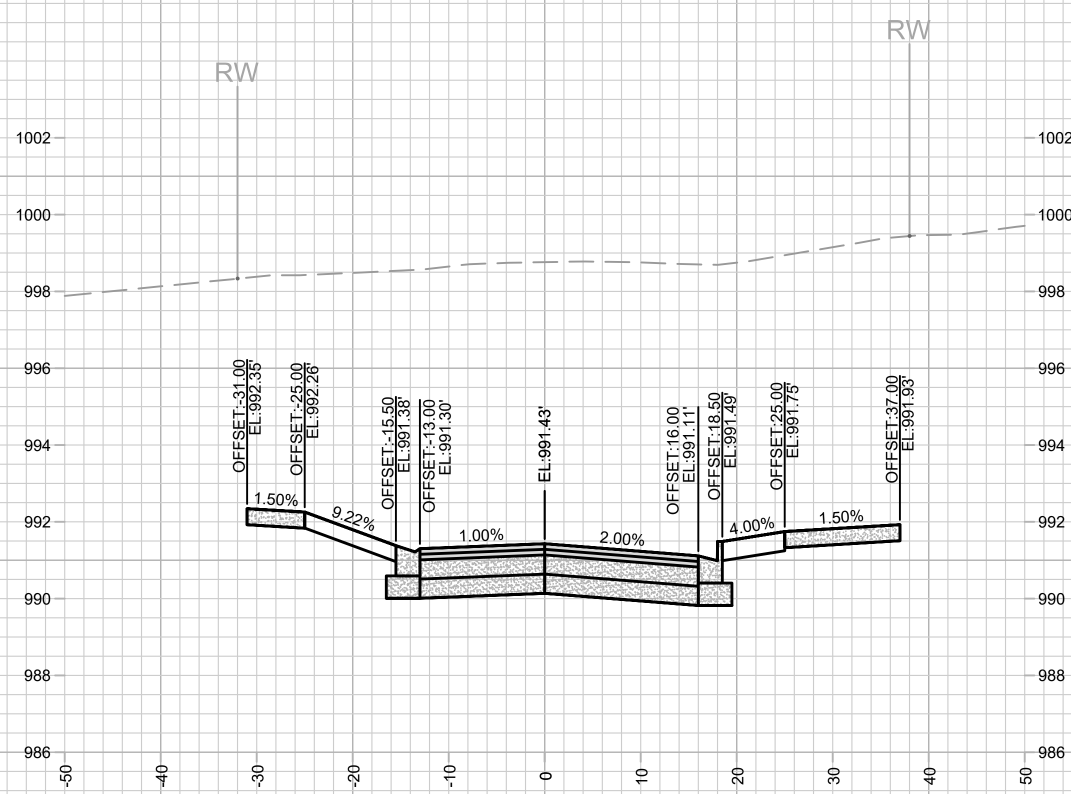
13355

X-8



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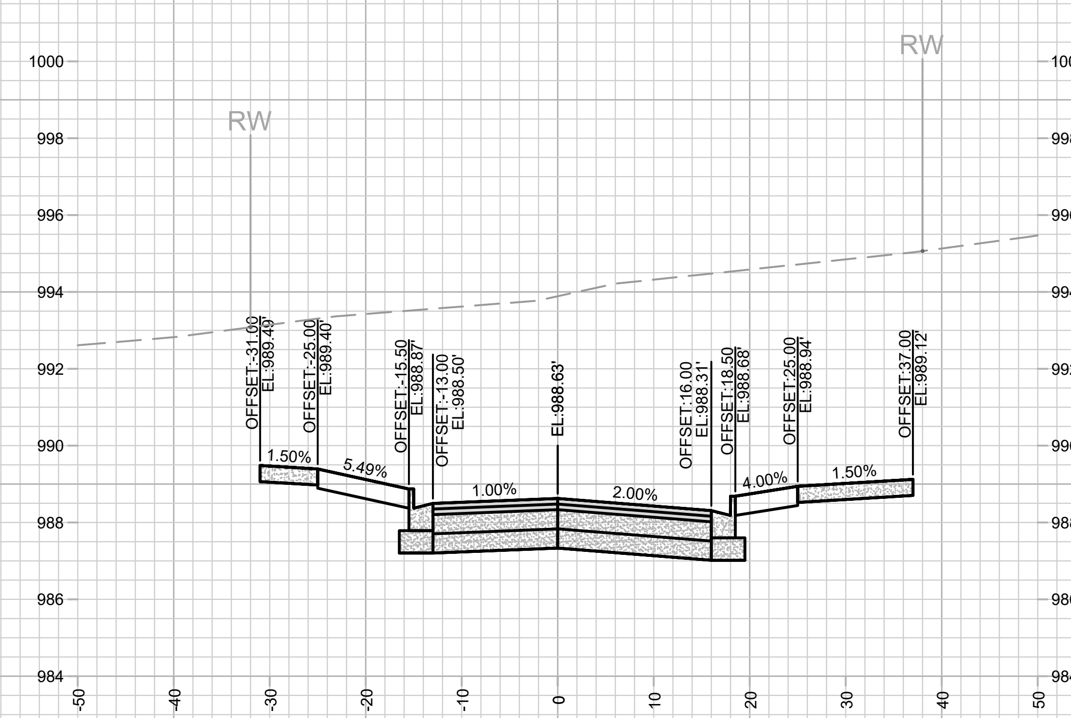

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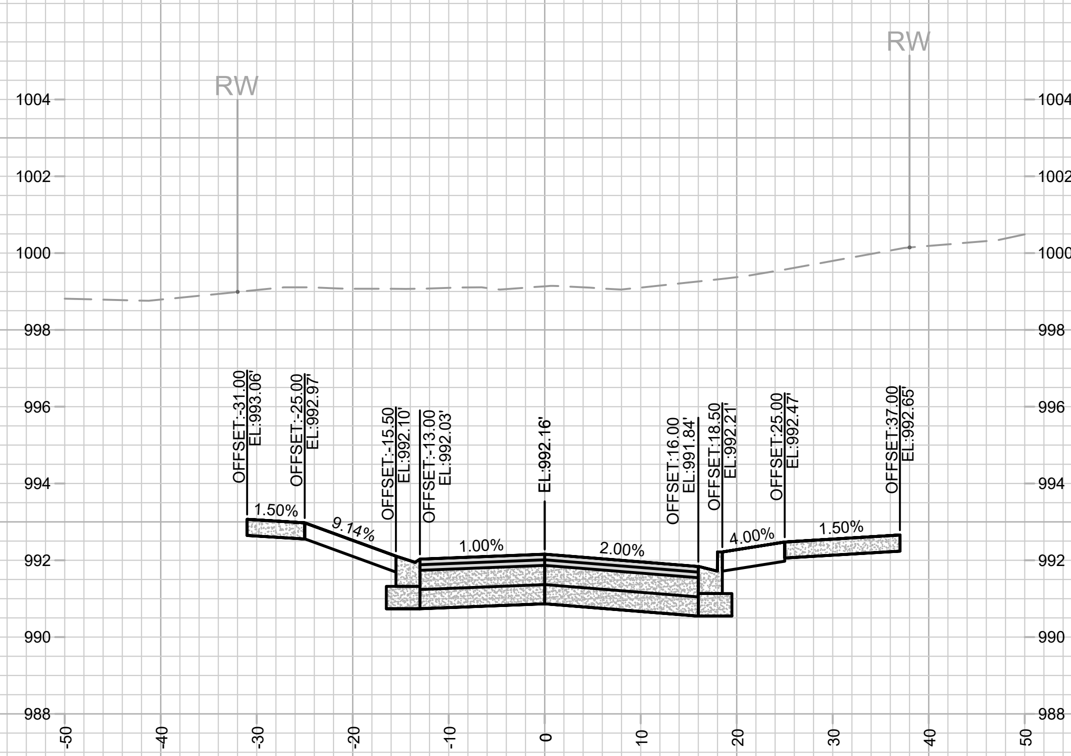

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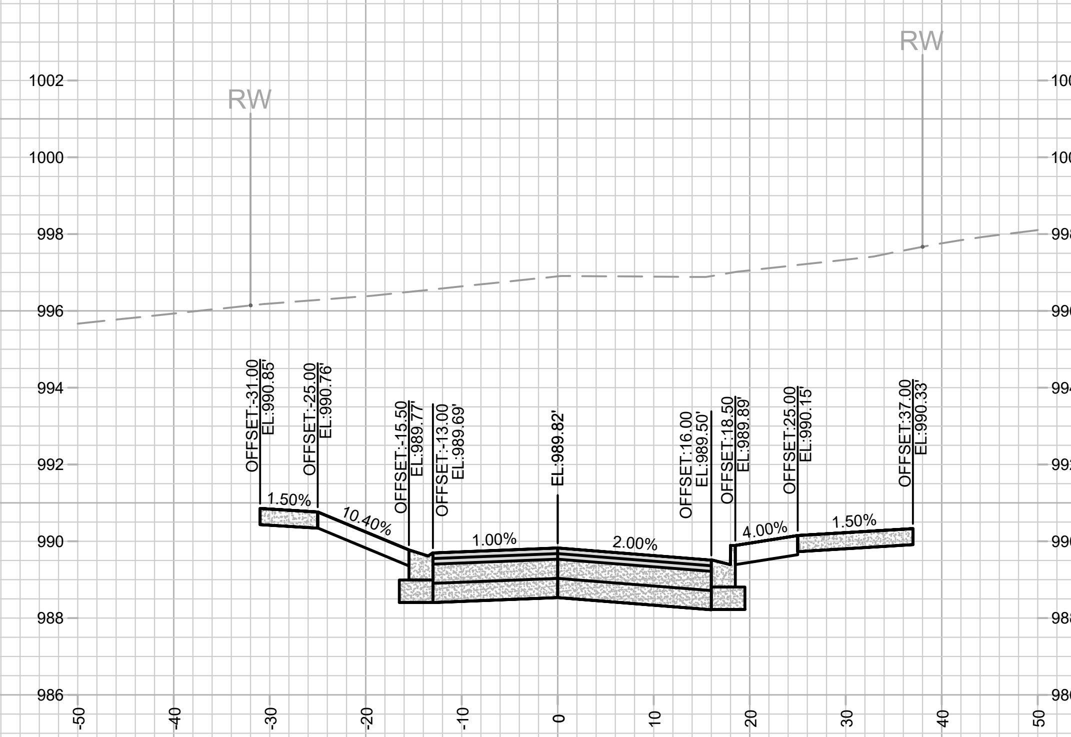

STA 110+75.00 DWY LT

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13355 X-9

ELEMENT WAY CROSS SECTIONS

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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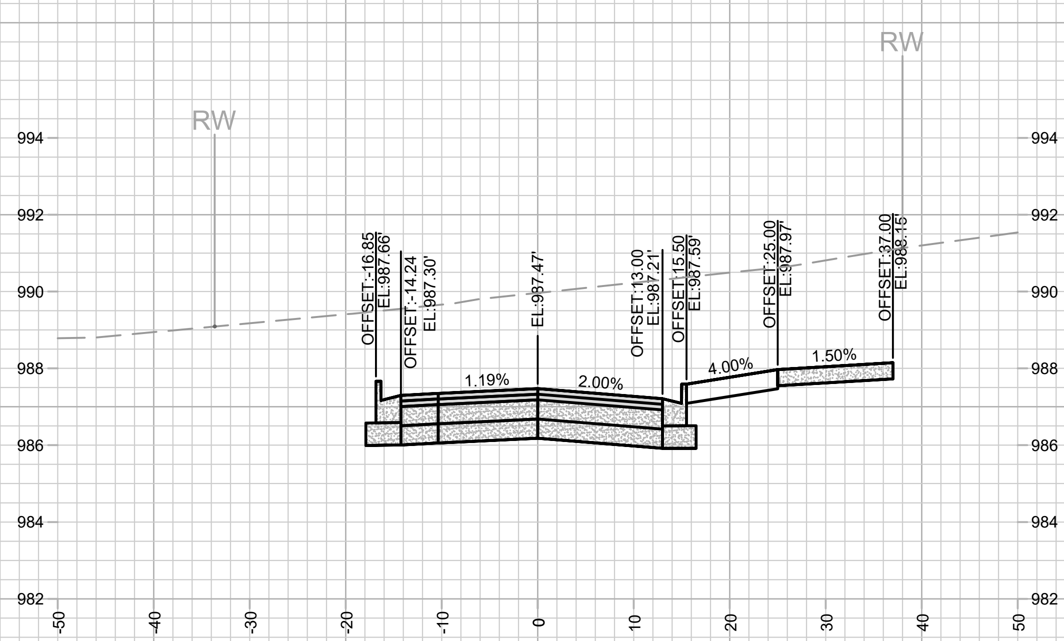
CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

13355

X-9



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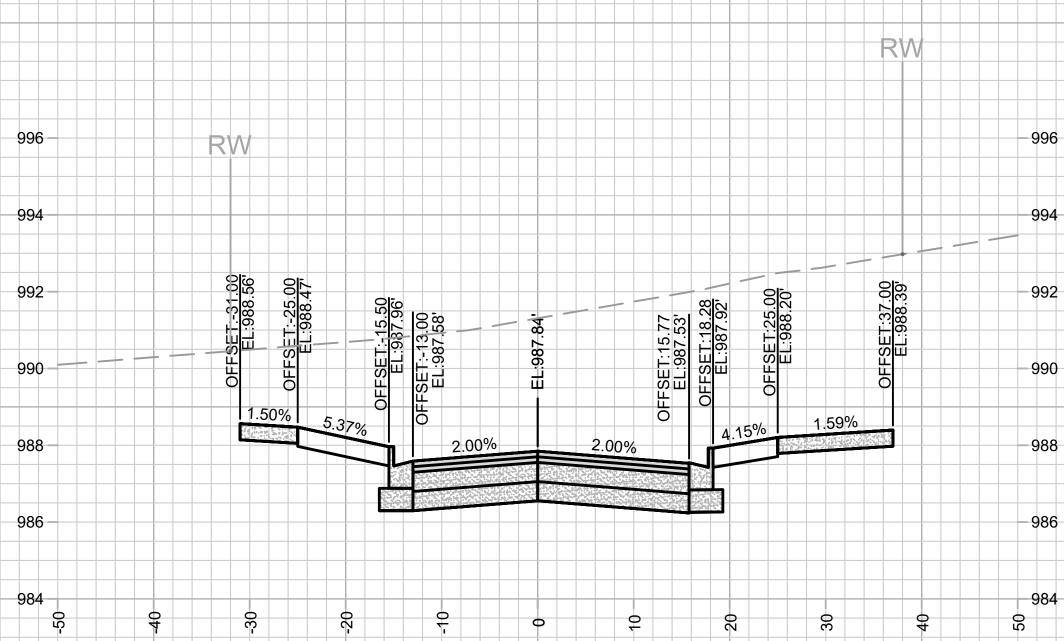

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ELEMENT WAY CROSS SECTIONS

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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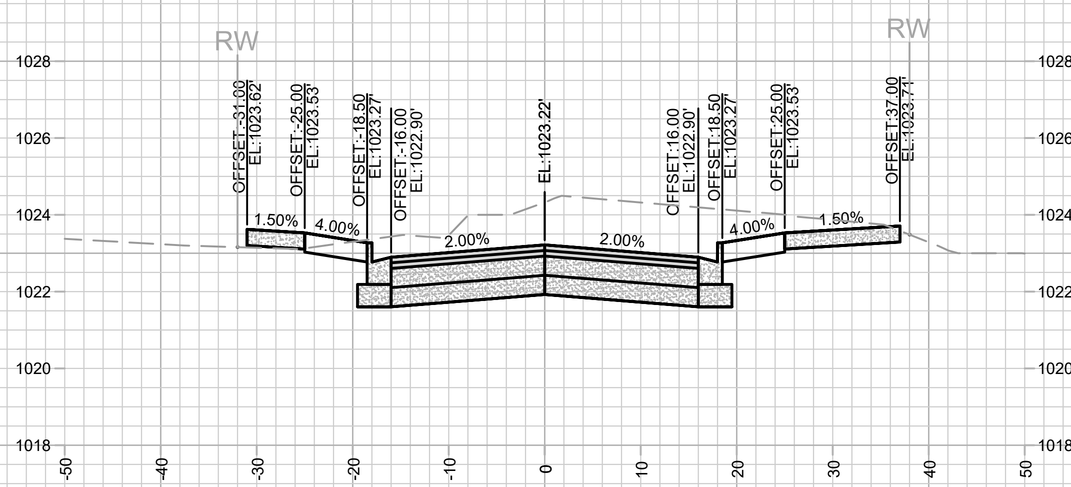
CONTRACT NO: 9003

13355

X-10



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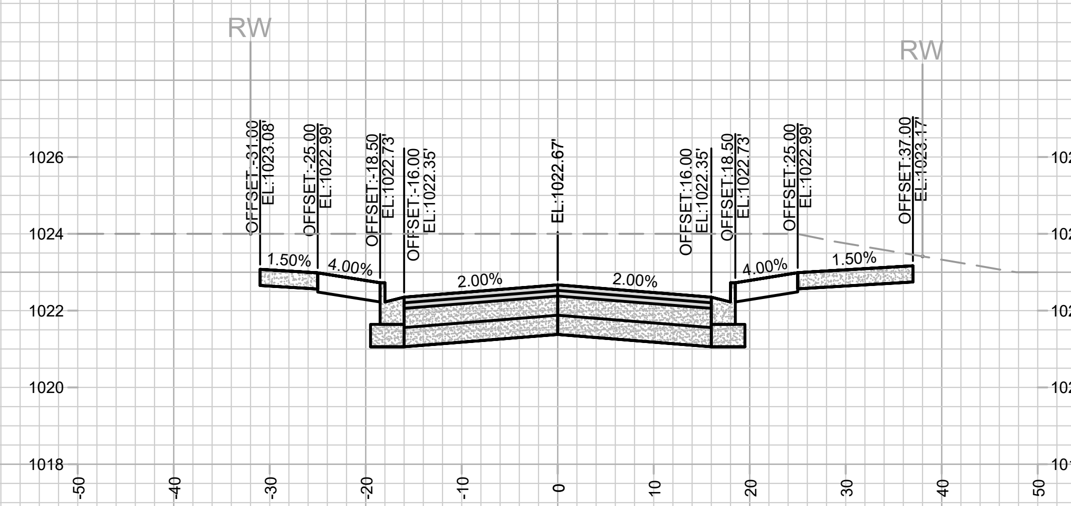

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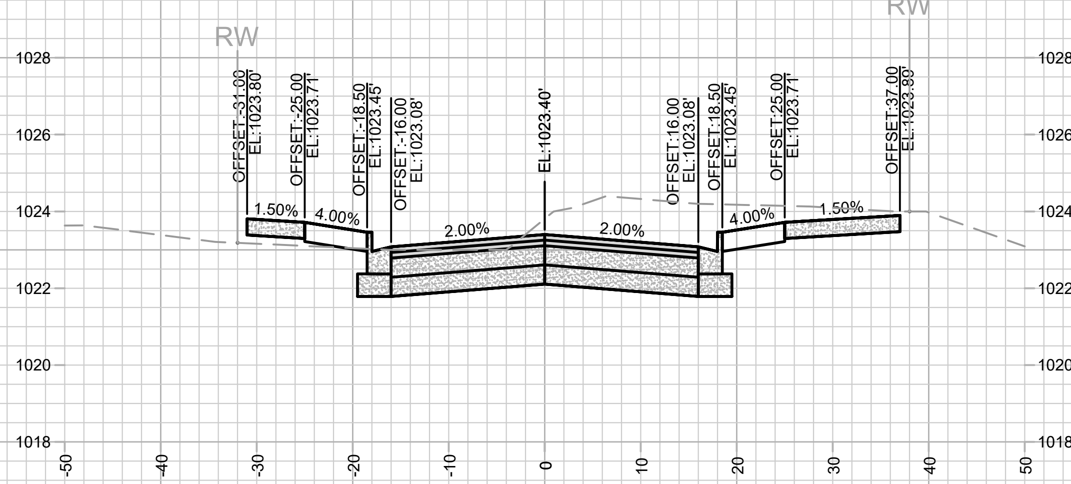

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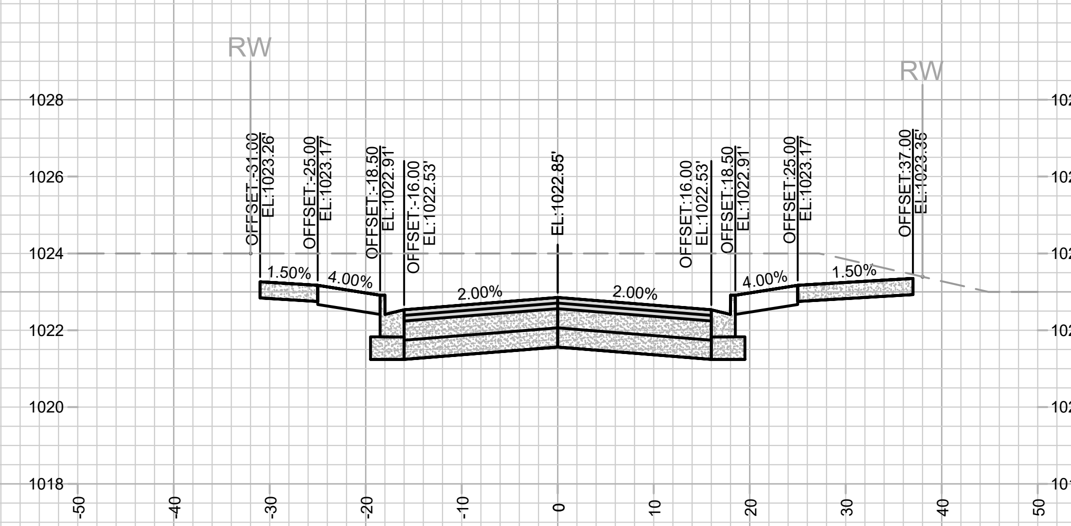

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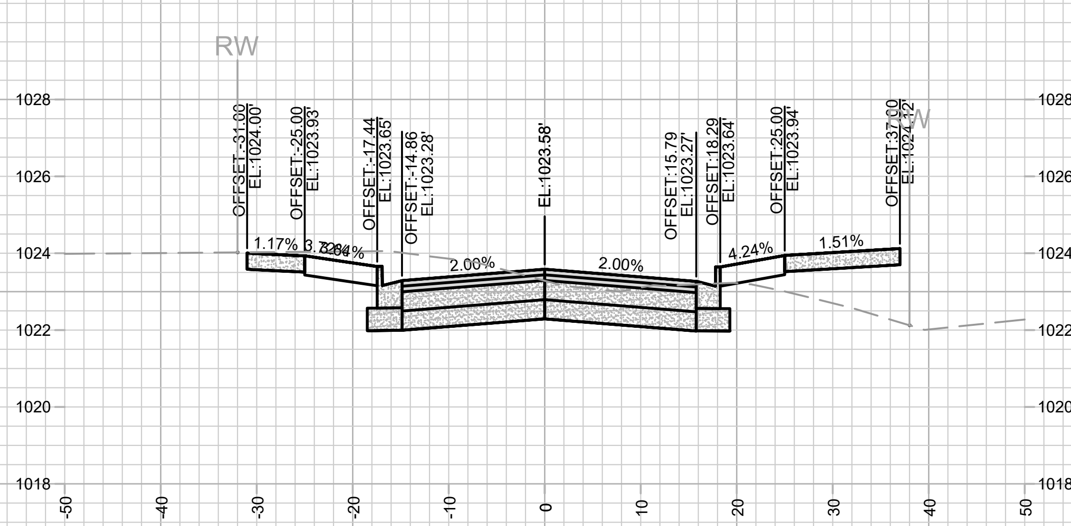

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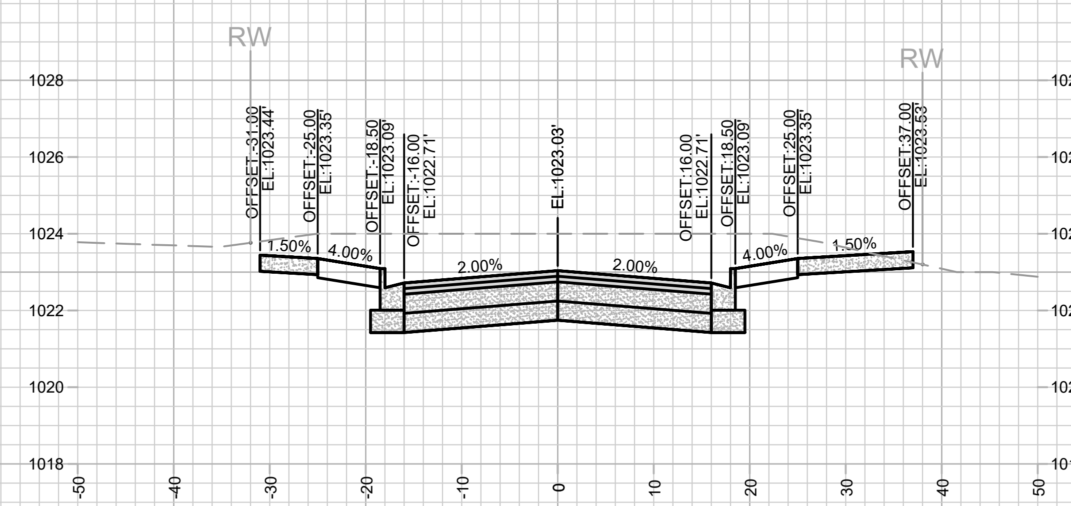

203+25.00

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13355

MADISON, WI

CONTRACT NO: 9003

CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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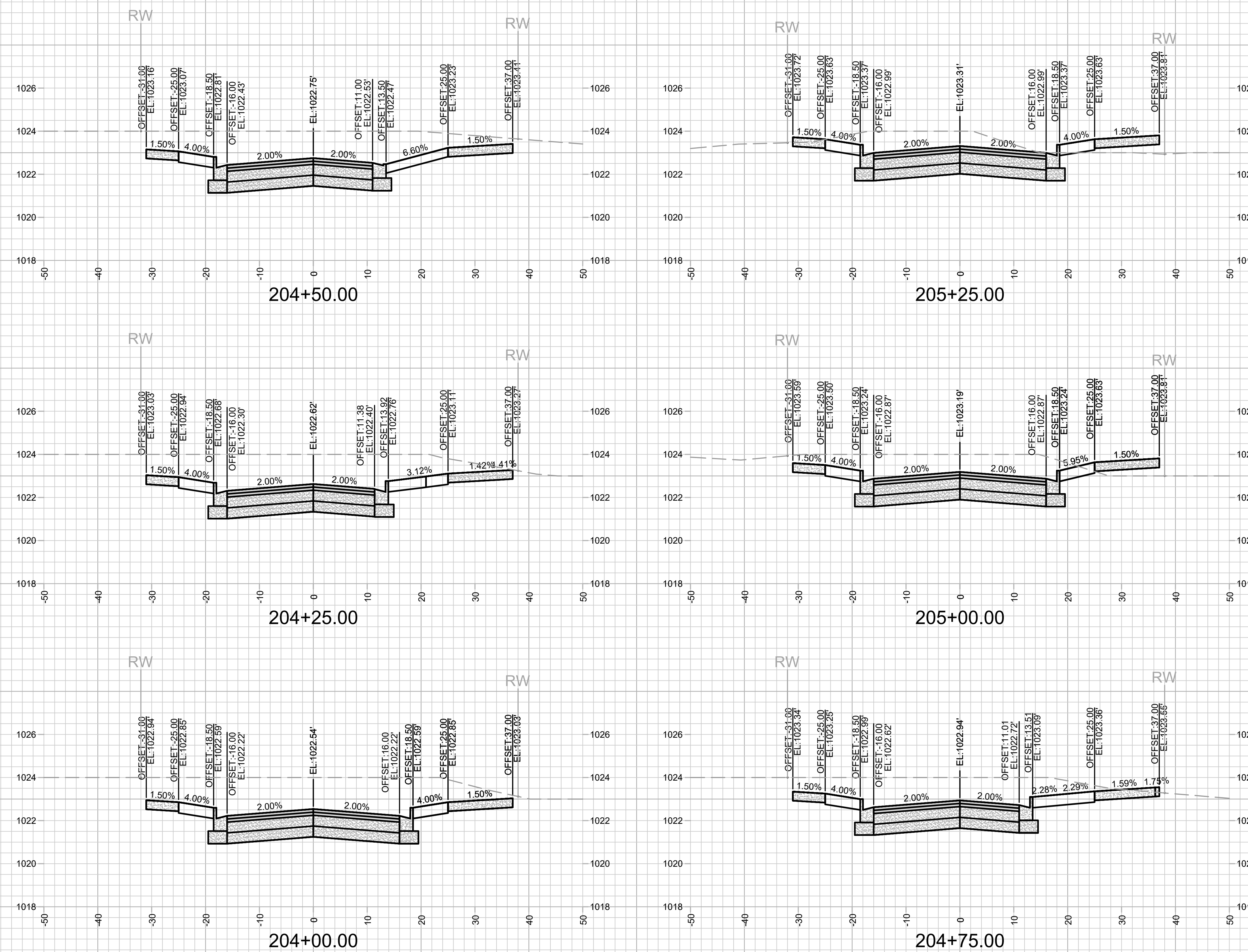
X-11



CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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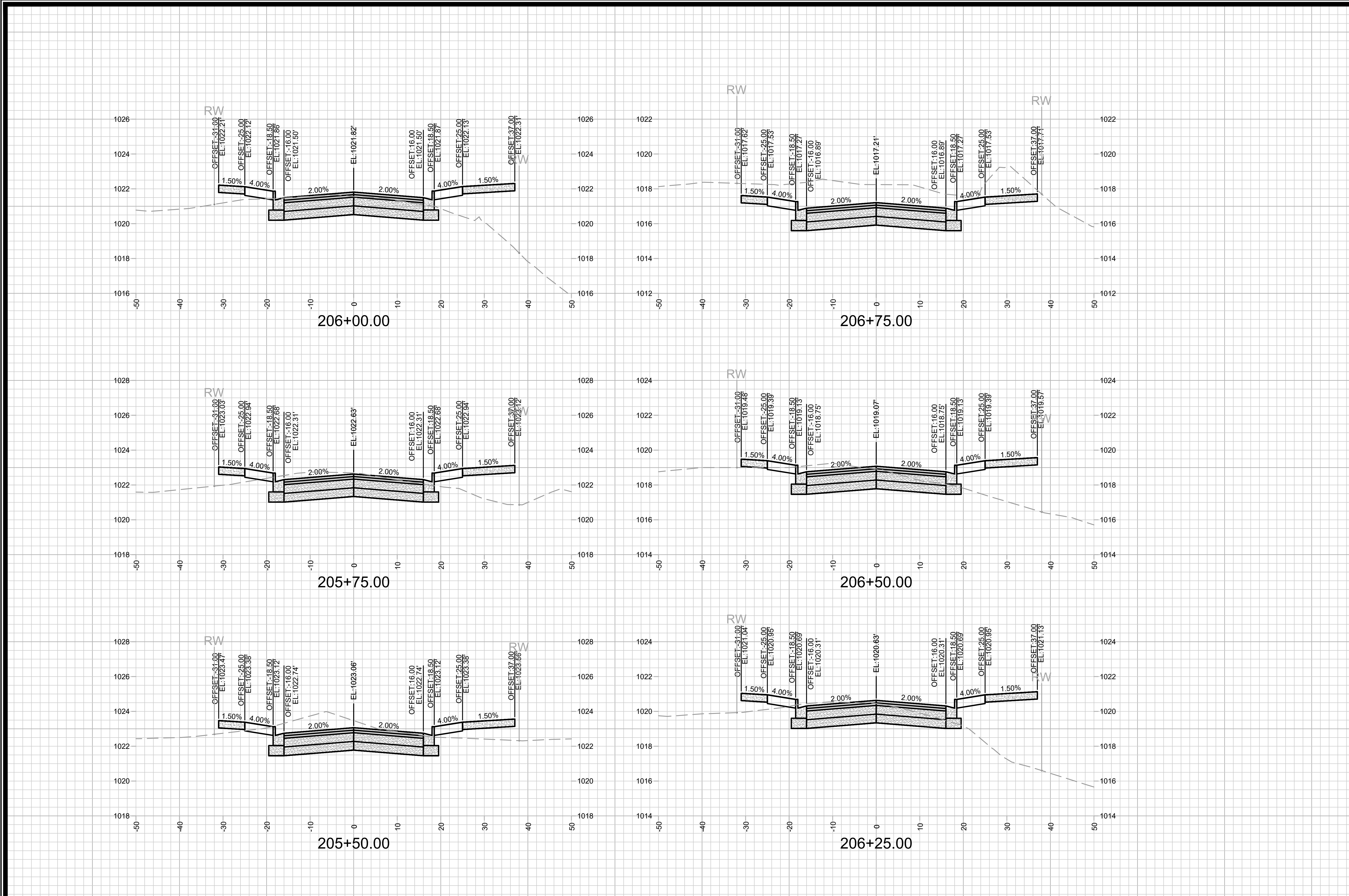
13355 X-12

CITY OF MADISON WISCONSIN

13355

X-12



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MADISON, WI

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CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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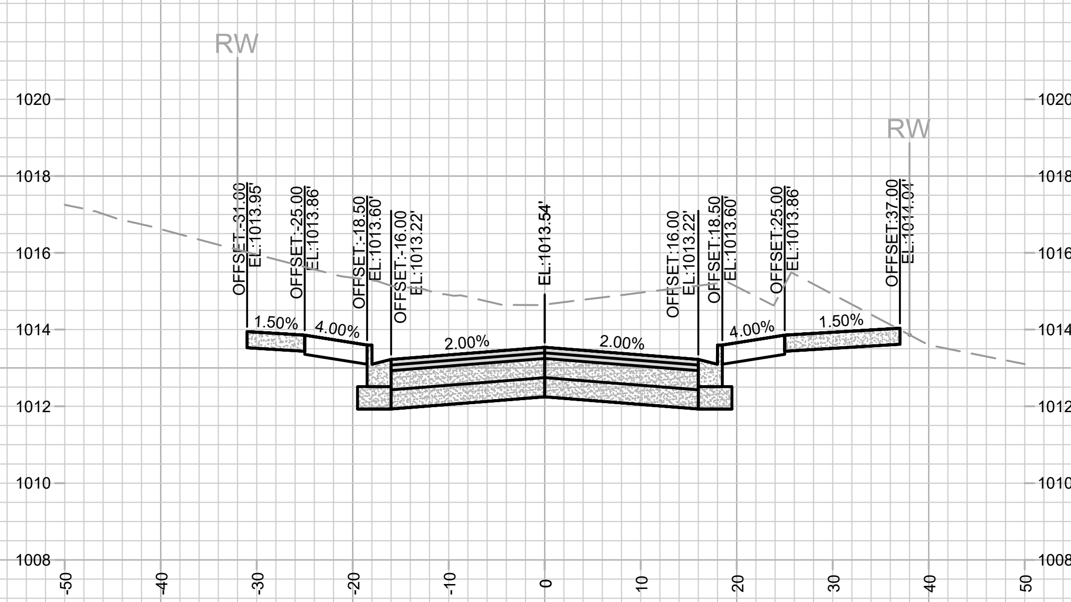
CITY OF MADISON WISCONSIN

13355

X-13



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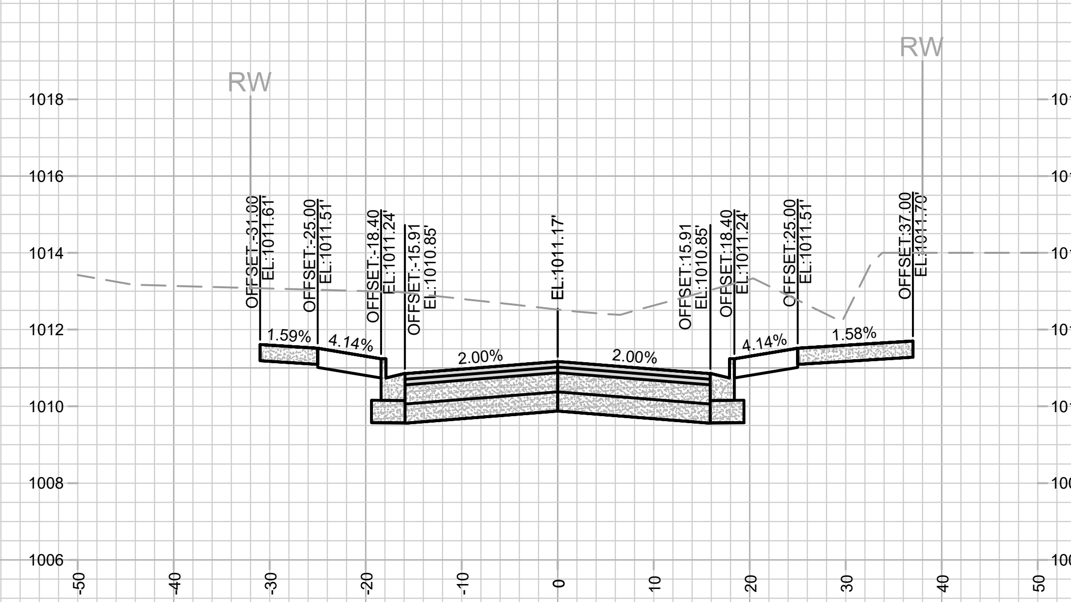

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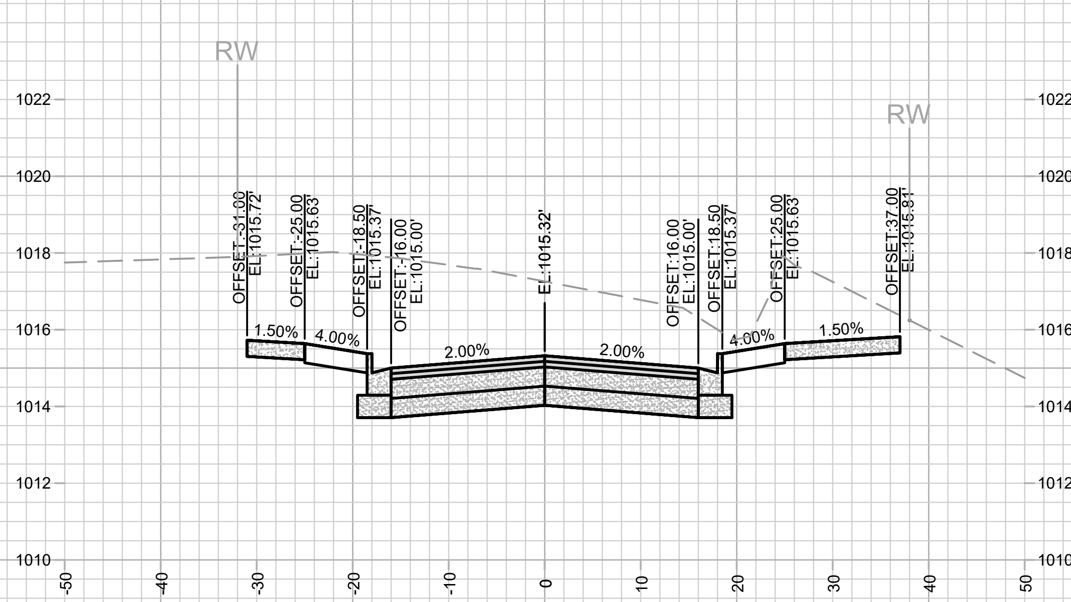

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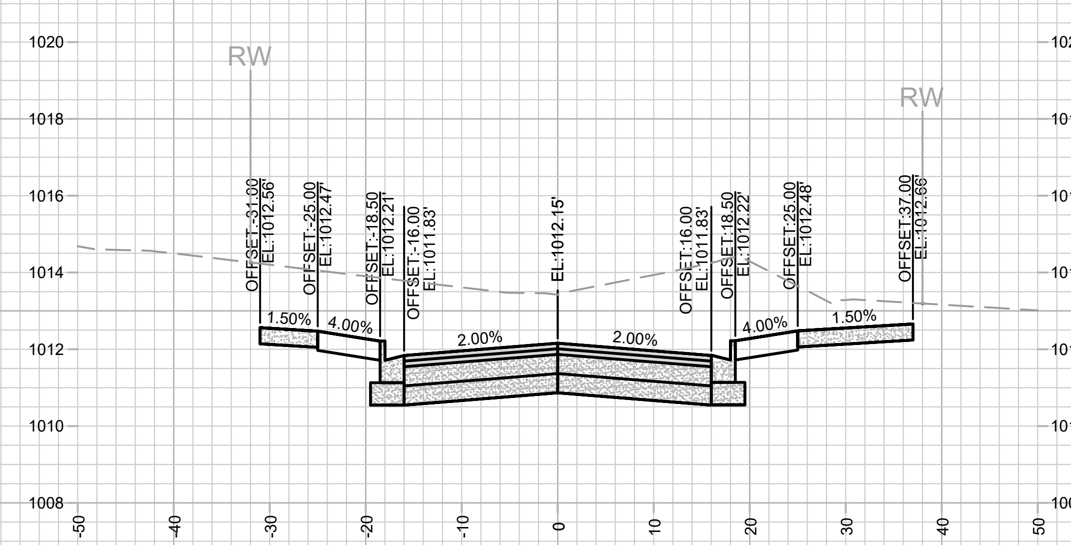

207+50.00

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13355 X-14

CATALYST WAY CROSS SECTIONS 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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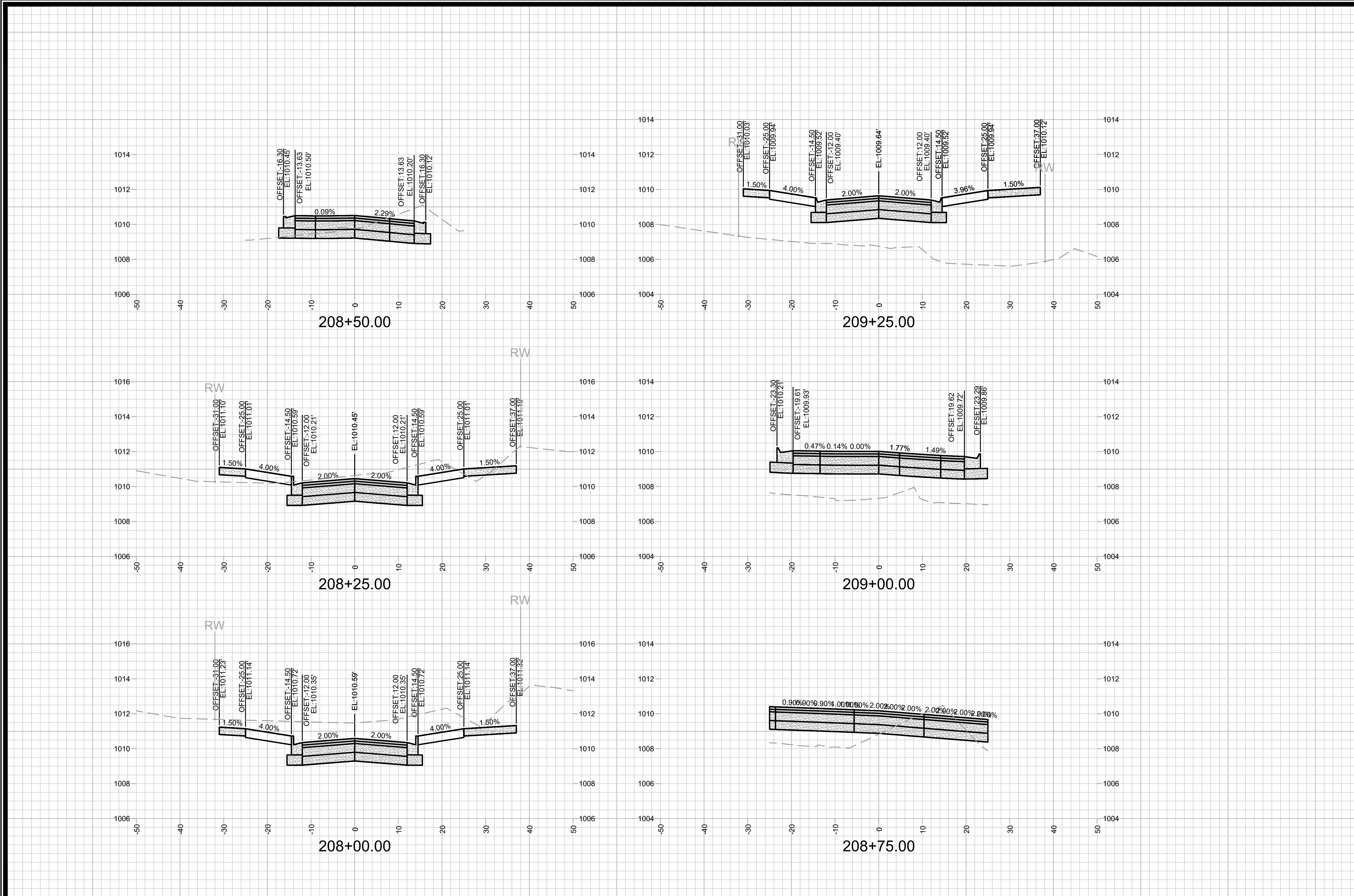
X-14



CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

13355

CONTRACT NO: 9003

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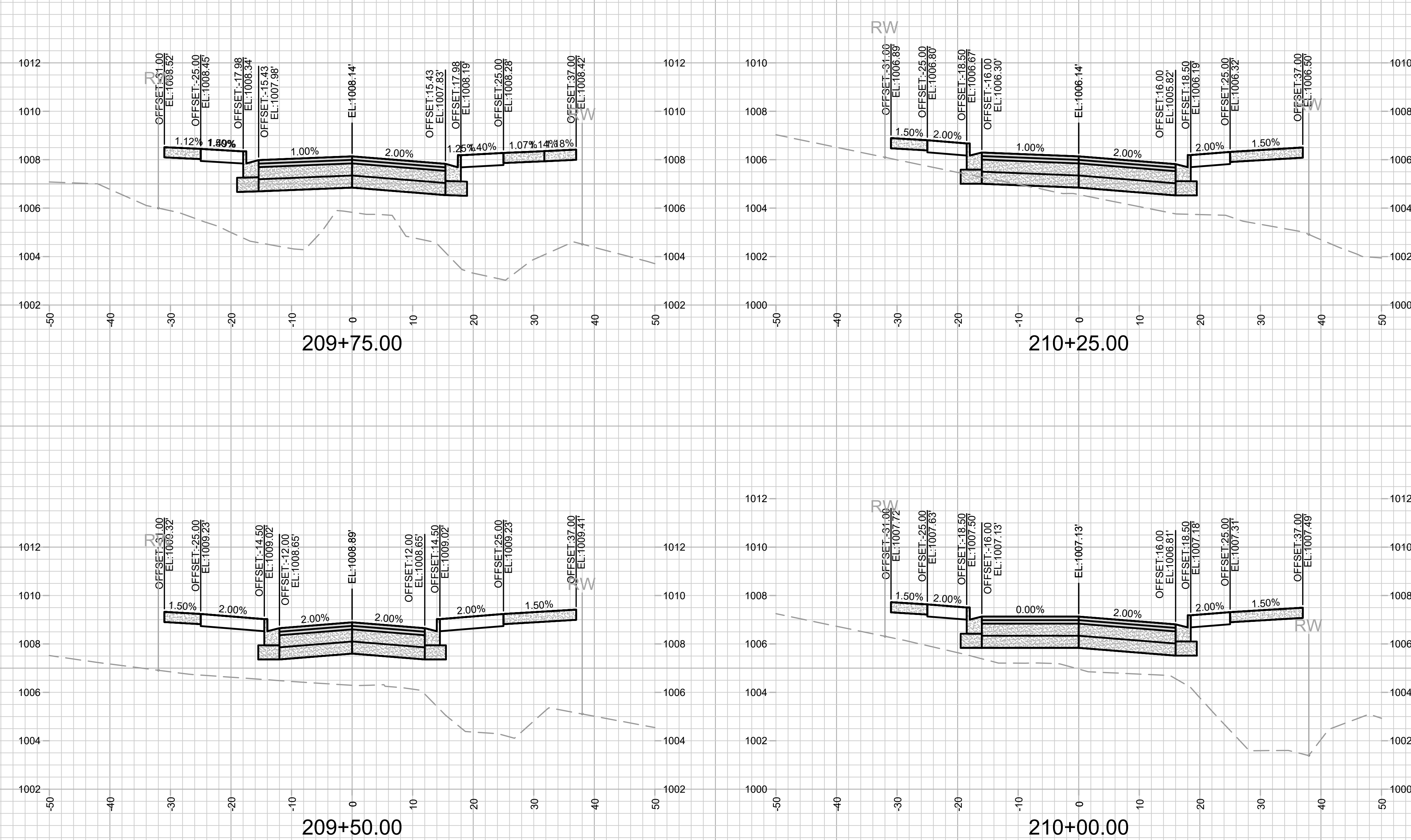
13355 | X-15

CITY OF MADISON WISCONSIN

13355

X-15



CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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MADISON, WI

CONTRACT NO: 9003

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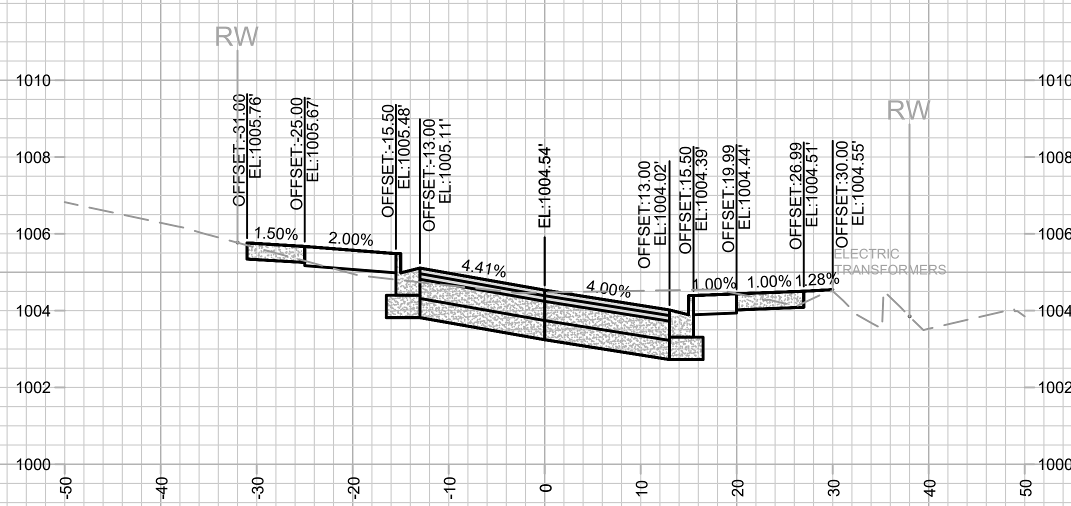
13355 X-16

CITY OF MADISON WISCONSIN

13355

X-16



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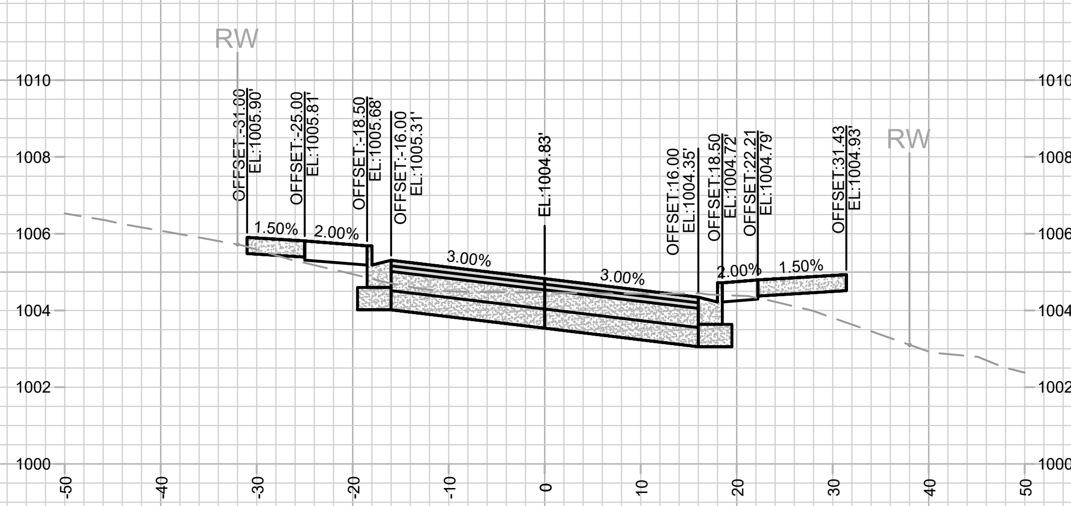

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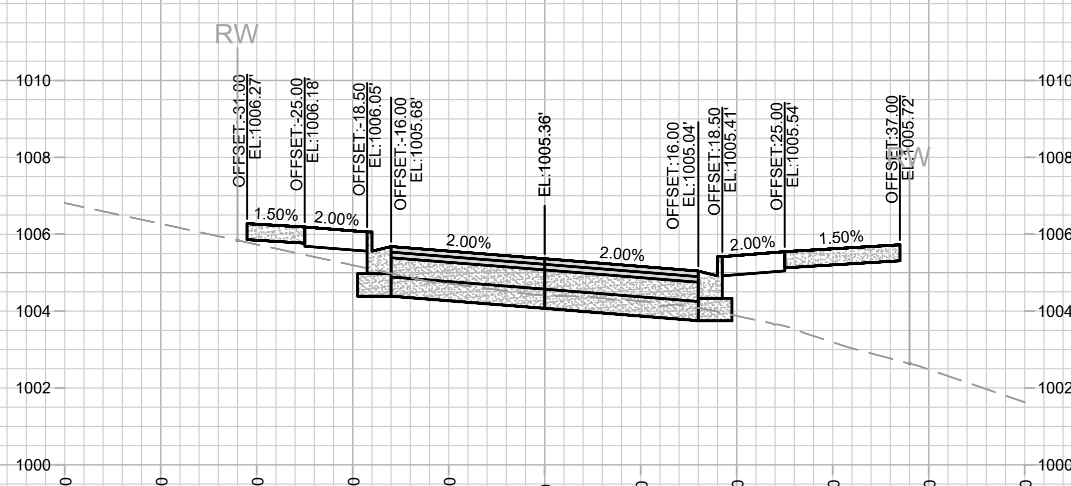

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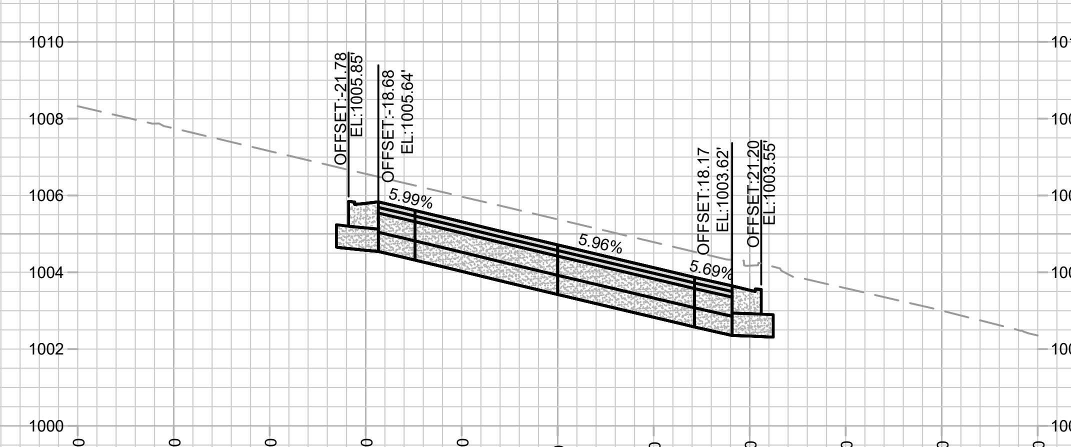

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13355 | X-17

CATALYST WAY CROSS SECTIONS — 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE — MADISON, WI

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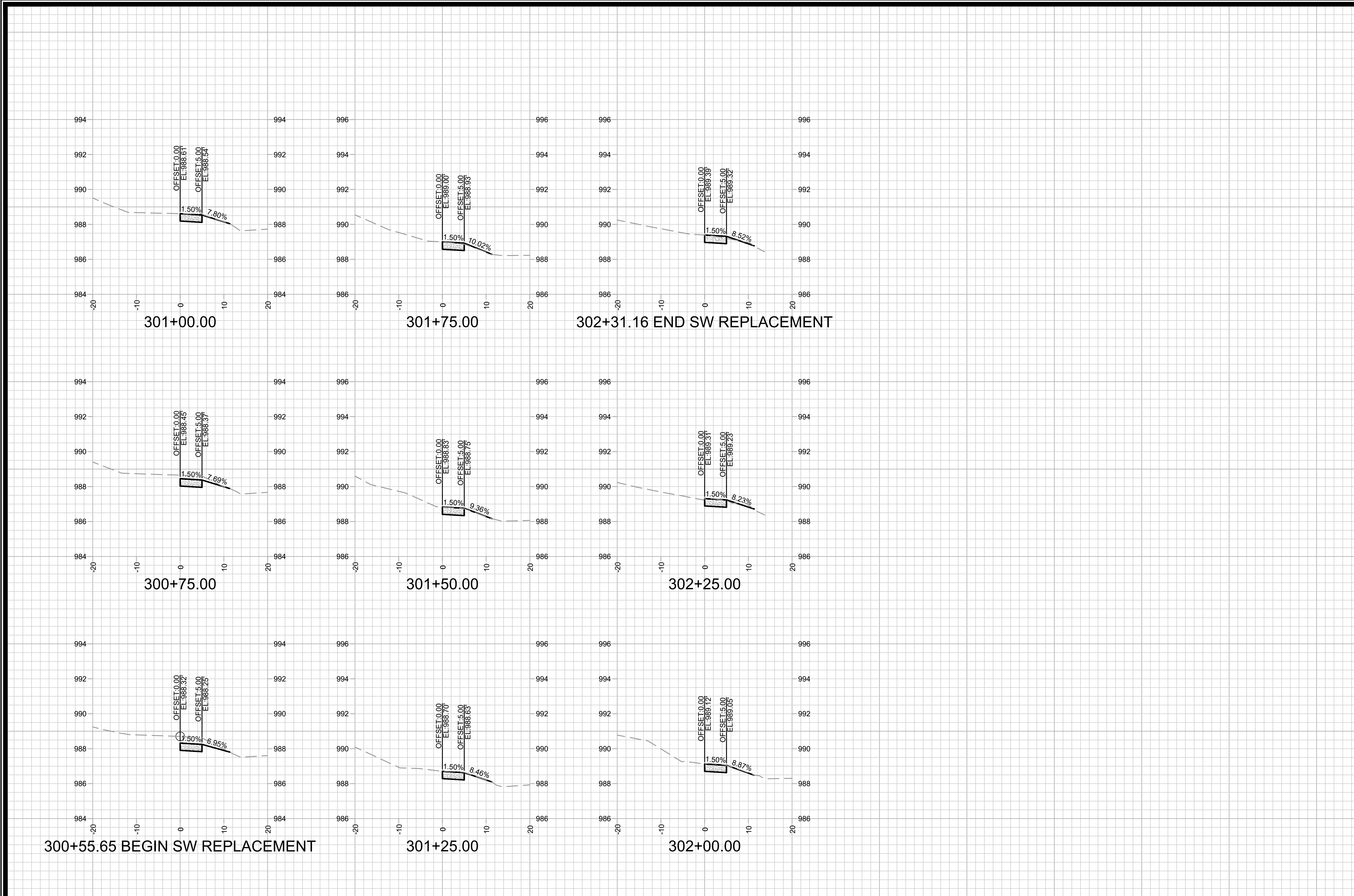
13355

X-17



MARK | REVISION | DATE | BY

Designed By: AJZ Date: 5/25/2022 1:59 PM Scale: ########

13355 X-18

WHITNEY WAY SIDEWALK CROSS SECTIONS 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

CONTRACT NO: 9003

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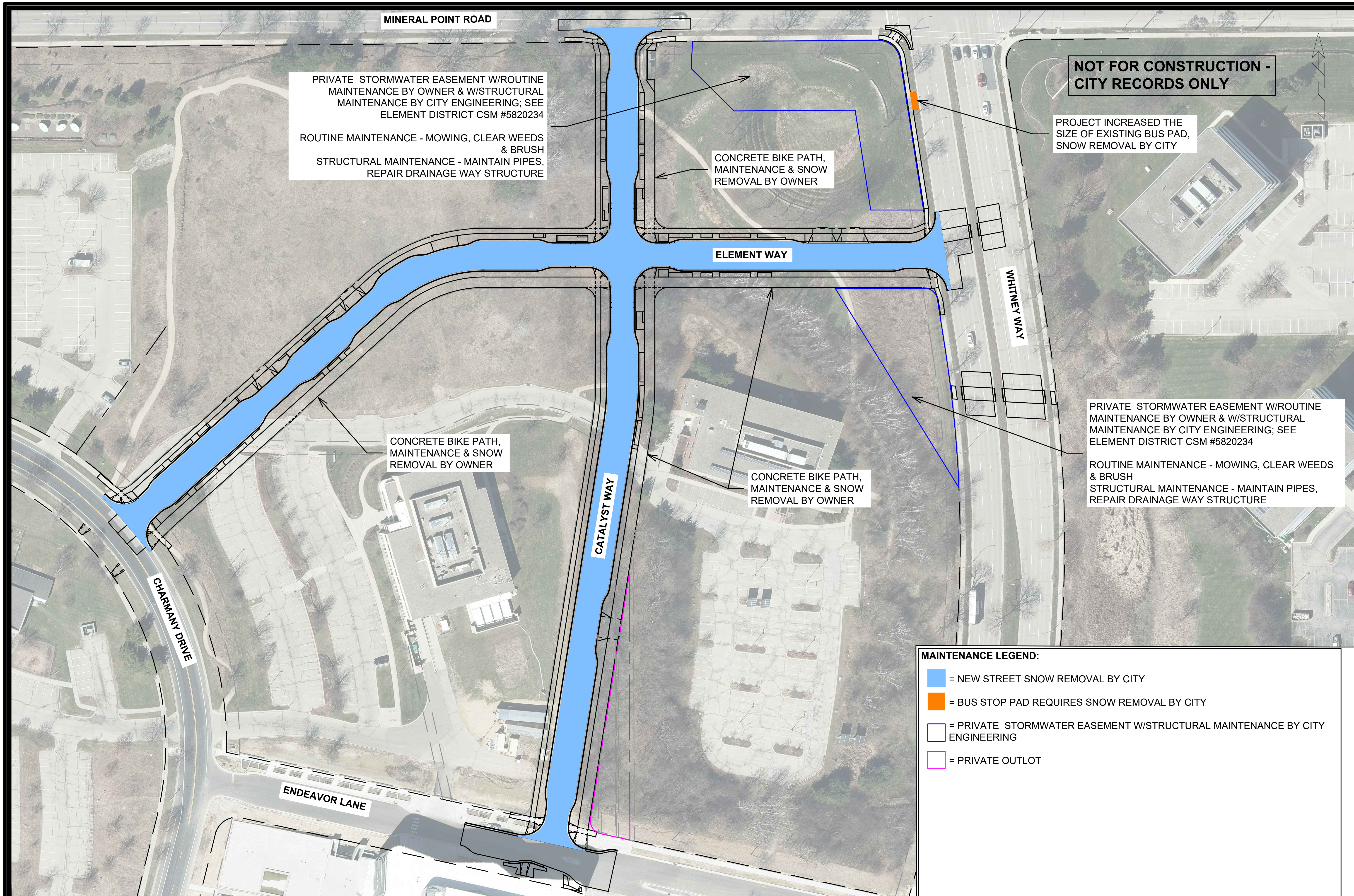
13355

X-18



MARK	REVISION	DATE	BY
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Designed By: AJZ | Date: 5/25/2022 2:14 PM | Scale: 1" = 100'

13355 MN-1

ELEMENT WAY & CATALYST WAY MAINTANENCE PLAN

13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

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CONTRACT NO: 9003

CITY OF MADISON WISCONSIN

13355

MN-1