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Madison, Wisconsin

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

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: April 19, 2021

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

W. Greg Fries — Jul 1, 2022

City Engineer — *Date*

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

CITY PROJECT NO. 13355
CONTRACT NO. 9003

INDEX OF SHEETS

SHEET NO.	1	TITLE
SHEET NO.	D1-D2	GENERAL NOTES, TYPICAL SECTIONS
SHEET NO.	D3	CONCRETE JOINTING PLAN
SHEET NO.	P1-P7	STREET PLAN & PROFILES
SHEET NO.	U1-U6	UTILITY PLAN & PROFILES
SHEET NO.	U-SAN	SANITARY SEWER SCHEDULE
SHEET NO.	U-STM	STORM SEWER SCHEDULE
SHEET NO.	W1-W6	WATER PLAN & PROFILES
SHEET NO.	W7	WATER IMPACT PLAN
SHEET NO.	W8	WATER MATERIALS, NOTES, & DETAILS
SHEET NO.	E1-E2	ELECTRICAL PLANS (STREET LIGHTING)
SHEET NO.	E1.02-1.03	ELECTRICAL PLANS (PRIVATE LIGHTING WITHIN R/W)
SHEET NO.	L1-L5	LANDSCAPING PLANS
SHEET NO.	L2.00-L2.06	TERRACE PLANS (PRIVATE FEATURES WITHIN R/W)
SHEET NO.	L5.01-L5.10	TERRACE DETAILS (PRIVATE FEATURES WITHIN R/W)
SHEET NO.	M1-M5	PAVEMENT MARKING PLAN
SHEET NO.	X1-X10	ELEMENT DRIVE CROSS SECTIONS
SHEET NO.	X11-X17	CATALYST COURT CROSS SECTIONS
SHEET NO.	X18	WHITNEY WAY CROSS SECTIONS
SHEET NO.	MA1	MAINTENANCE MAP (CITY USE ONLY)

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

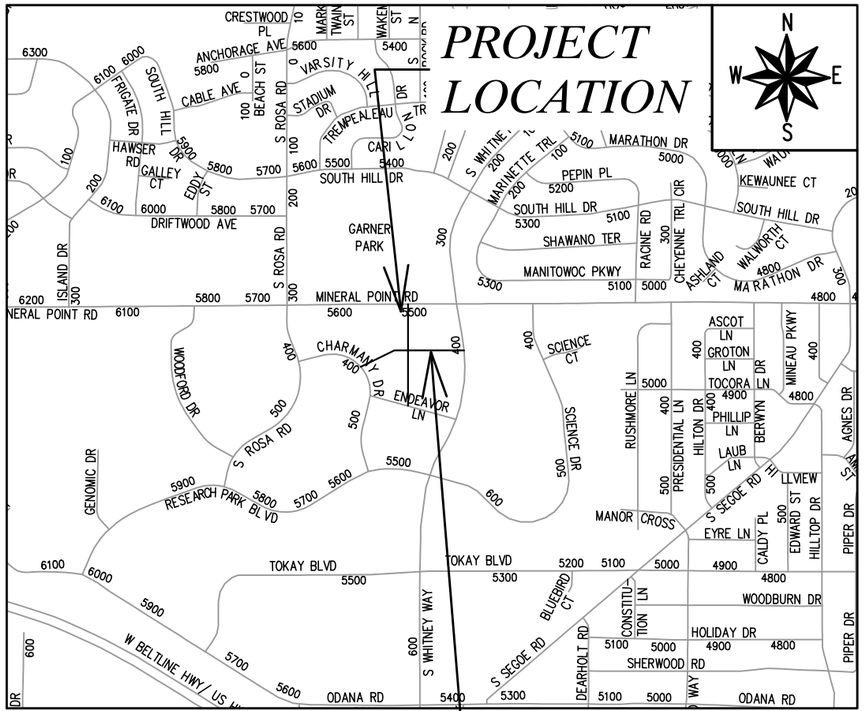
COMBUSTIBLE FLUIDS

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%.

PROJECT LOCATION



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

DATE: 5/25/2022 5:33 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

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

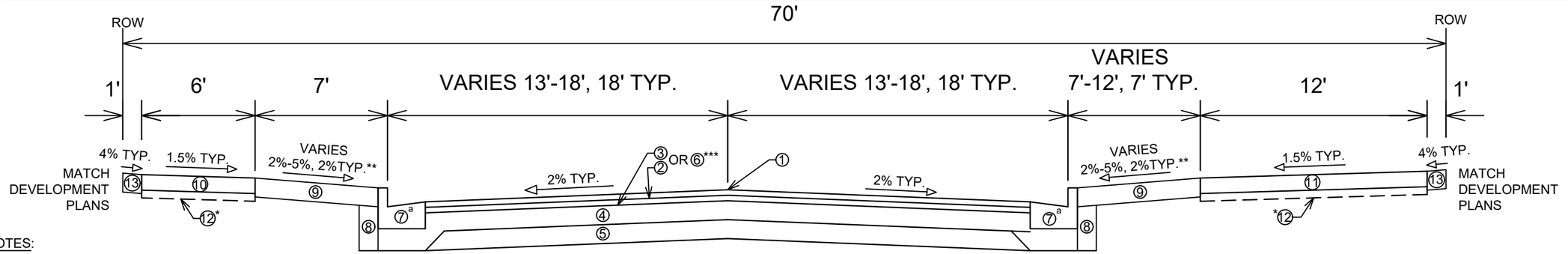
MADISON, WI

CONTRACT NO: 9003

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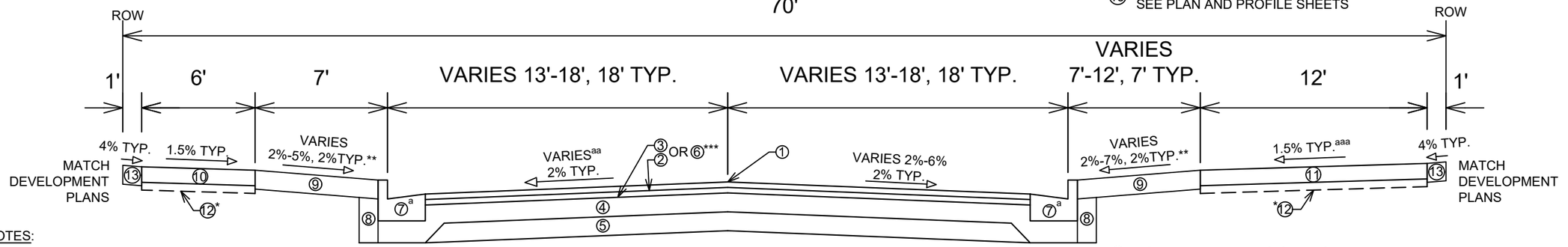


SPECIAL NOTES:

- 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

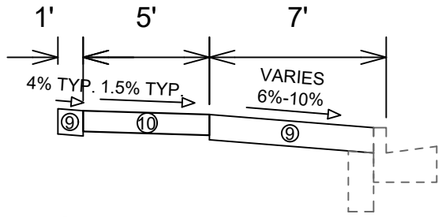


SPECIAL NOTES:

- 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 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

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TYPICAL SECTIONS
MADISON, WI
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
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CITY OF MADISON WISCONSIN

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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

9" CONCRETE PAVEMENT, SEE CITY SDD LONGITUDINAL & DOWEL BAR INFORMATION

ELEMENT WAY RL

PC STA 105+24.99

PT STA 106+53.27

PT STA 207+31.58

PC STA 206+84.30

9" CONCRETE PAVEMENT, SEE CITY SDD LONGITUDINAL & DOWEL BAR INFORMATION

ELEMENT WAY

CATALYST WAY

MINERAL POINT ROAD

11' TYP.

15' TYP.

RW

LANDSCAPE AREA

0709-302-1208-4
UNIVERSITY RESEARCH PARK INC
5534 Element Way

0709-302-0901-4
UNIVERSITY RESEARCH PARK INC
5521 Element Way

0709-302-0208-4
UNIVERSITY RESEARCH PARK INC
5534 Element Way

0709-302-1001-1
UNIVERSITY RESEARCH PARK INC
431 Catalyst Way

0709-302-0801-6
UNIVERSITY RESEARCH PARK INC
5510 Element Way

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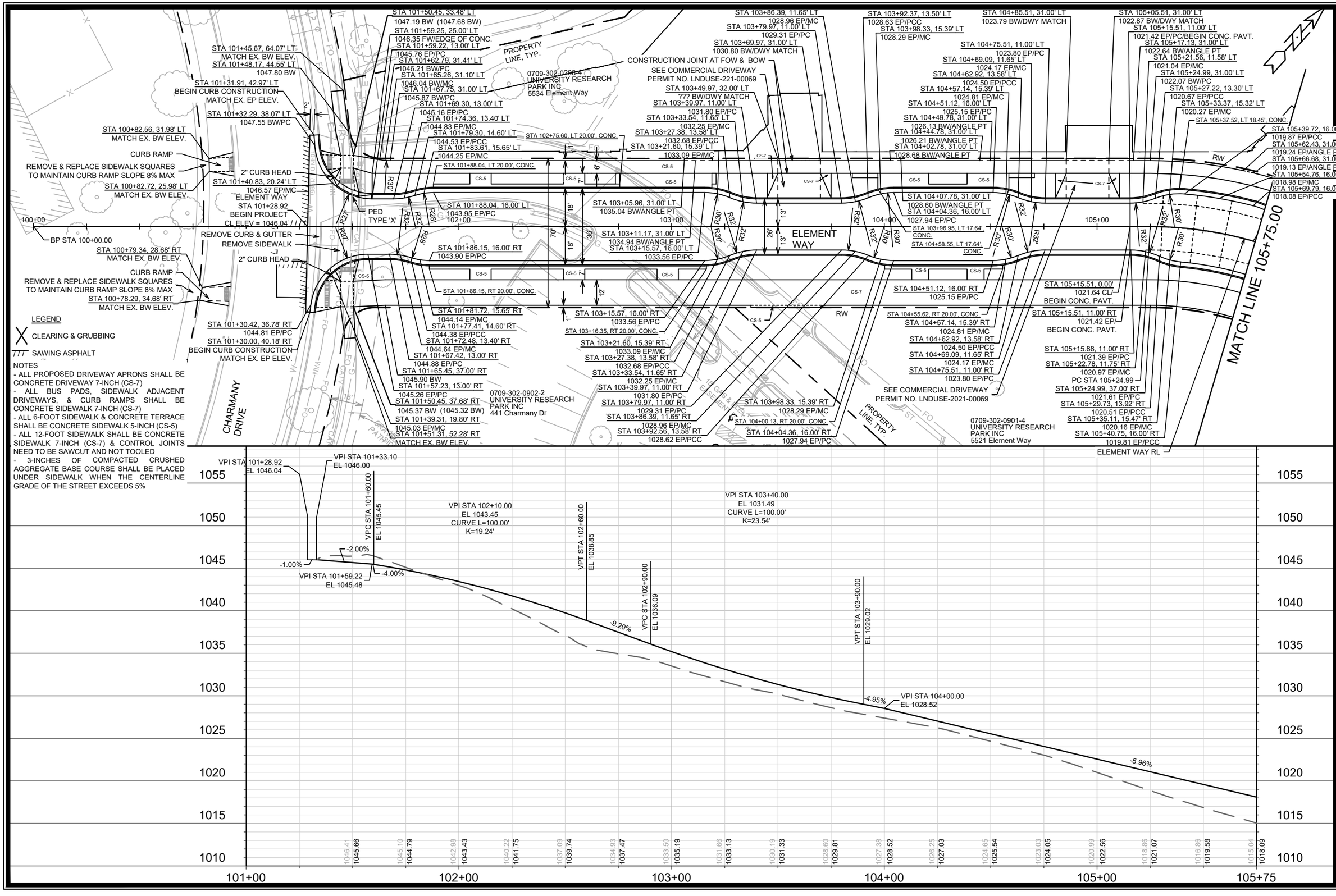
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CONCRETE JOINTING PLAN
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
MADISON, WI
CONTRACT NO: 9003

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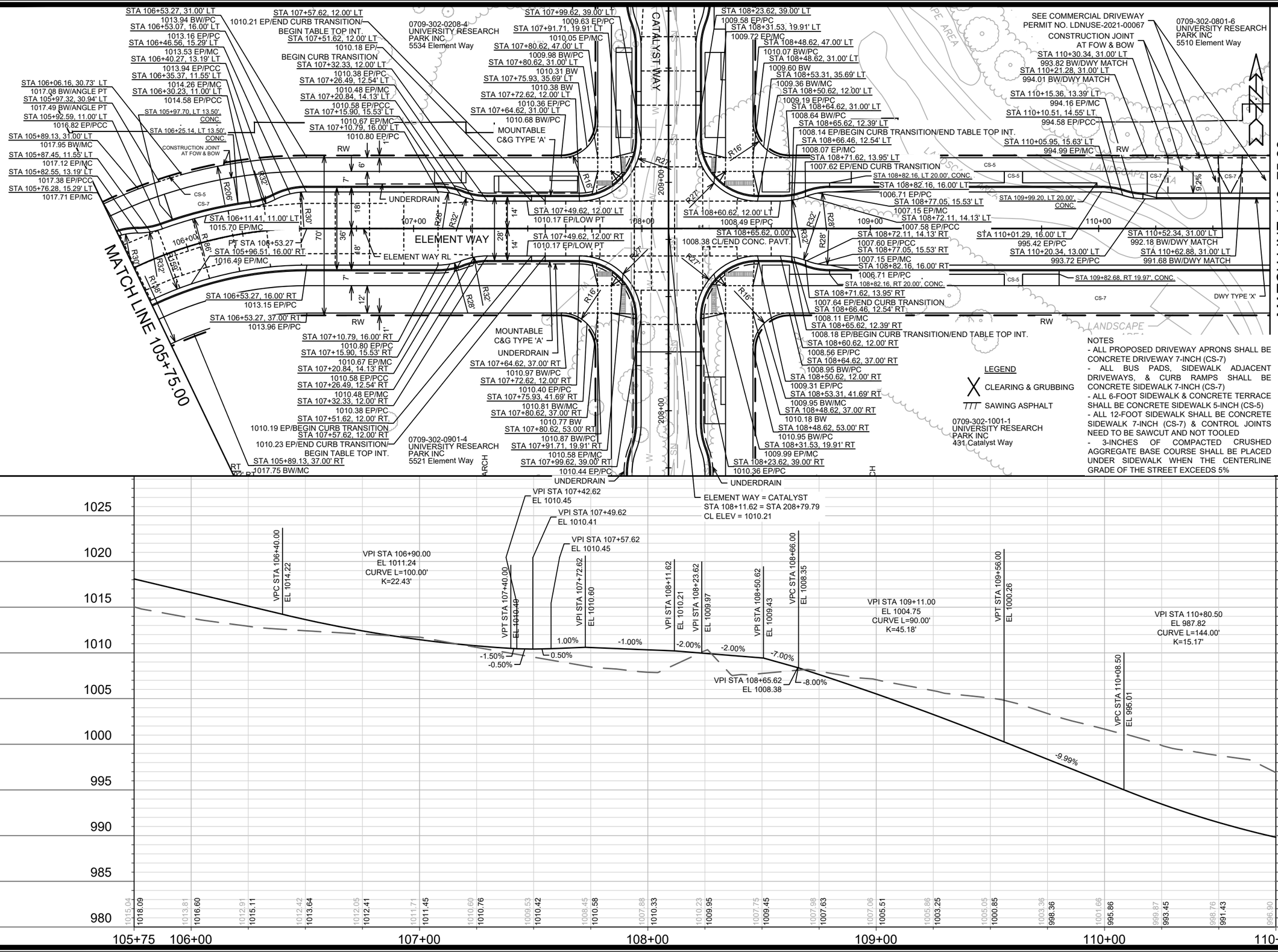
ELEMENT WAY PLAN & PROFILE
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
MADISON, WI
CONTRACT NO: 9003

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MADISON, WI

9003

CONTRACT NO:

ELEMENT WAY PLAN & PROFILE

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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13355

P-2

MATCH LINE 110+75.00

STA 111+58.57, 46.88' LT
988.10 BW/PC
STA 111+58.22, 36.43' LT
987.64 BW (988.78 BW)
STA 111+52.57, 33.80' LT
987.73 BW/PC
STA 111+46.39, 31.71' LT
988.01 BW/MC

SEE SHEET P-6 FOR SIDEWALK GRADES

STA 111+58.24, 53.38' LT
988.32 BW/PC
STA 111+58.55, 50.51' LT
988.21 BW/MC
STA 111+72.81, 49.93' LT
END CURB CONSTRUCTION
MATCH EX. EP ELEV.

SEE COMMERCIAL DRIVEWAY PERMIT NO. LDNUSE-2021-00067
CONSTRUCTION JOINT AT FOW & BOW
STA 110+89.06, 31.00' LT
989.89 BW/DWY MATCH
STA 111+39.91, 31.00' LT
988.29 BW/PC
RW
CS-5 UNDERDRAIN
STA 111+41.19, 13.00' LT
987.30 EP/PC
0.3%

R30'
REMOVE CURB & GUTTER
STA 111+65.50, 24.19' LT
987.24 EP/MC
R32'
REMOVE SIDEWALK
STA 111+53.59, 15.50' LT
987.26 EP/LOW PT

ELEMENT WAY RL 111+00
DWY TYPE 'X'
ELEMENT WAY
R32'
R28'
R32'
ELEMENT WAY
STA 111+82.63
END PROJECT
CL ELEV = 987.63

STA 111+76.05, 20.69' RT
987.65 EP/MC

STA 111+21.39, 16.00' RT
987.61 EP/PC
CS-7
RW
STA 111+25.82, 15.65' RT
987.51 EP/MC
STA 111+30.13, 14.60' RT
987.44 EP/PCC
STA 111+35.07, 13.40' RT
987.38 EP/MC
STA 111+40.12, 13.00' RT
987.31 EP/PC
STA 111+53.59, 13.00' RT
987.19 EP/LOW PT
STA 111+55.24, 13.00' RT
987.20 EP/PC
STA 111+51.73, 37.00' RT
988.14 BW/ANGLE PT.
UNDERDRAIN
STA 111+66.81, 38.17' RT
988.03 BW (989.47 BW)

R30'
2' TYP.
STA 111+86.86, 40.07' RT
END CURB CONSTRUCTION
MATCH EX. EP ELEV.
STA 111+73.62, 48.60' RT
988.56 BW/PC
STA 111+74.41, 51.22' RT
988.70 BW/MC
STA 111+74.96, 53.91' RT
988.84 BW/PC
STA 111+77.29, 68.73' RT
MATCH EX. BW ELEV./PC

8' CURB RAMP
PUBLIC STORMWATER MANAGEMENT EASEMENT

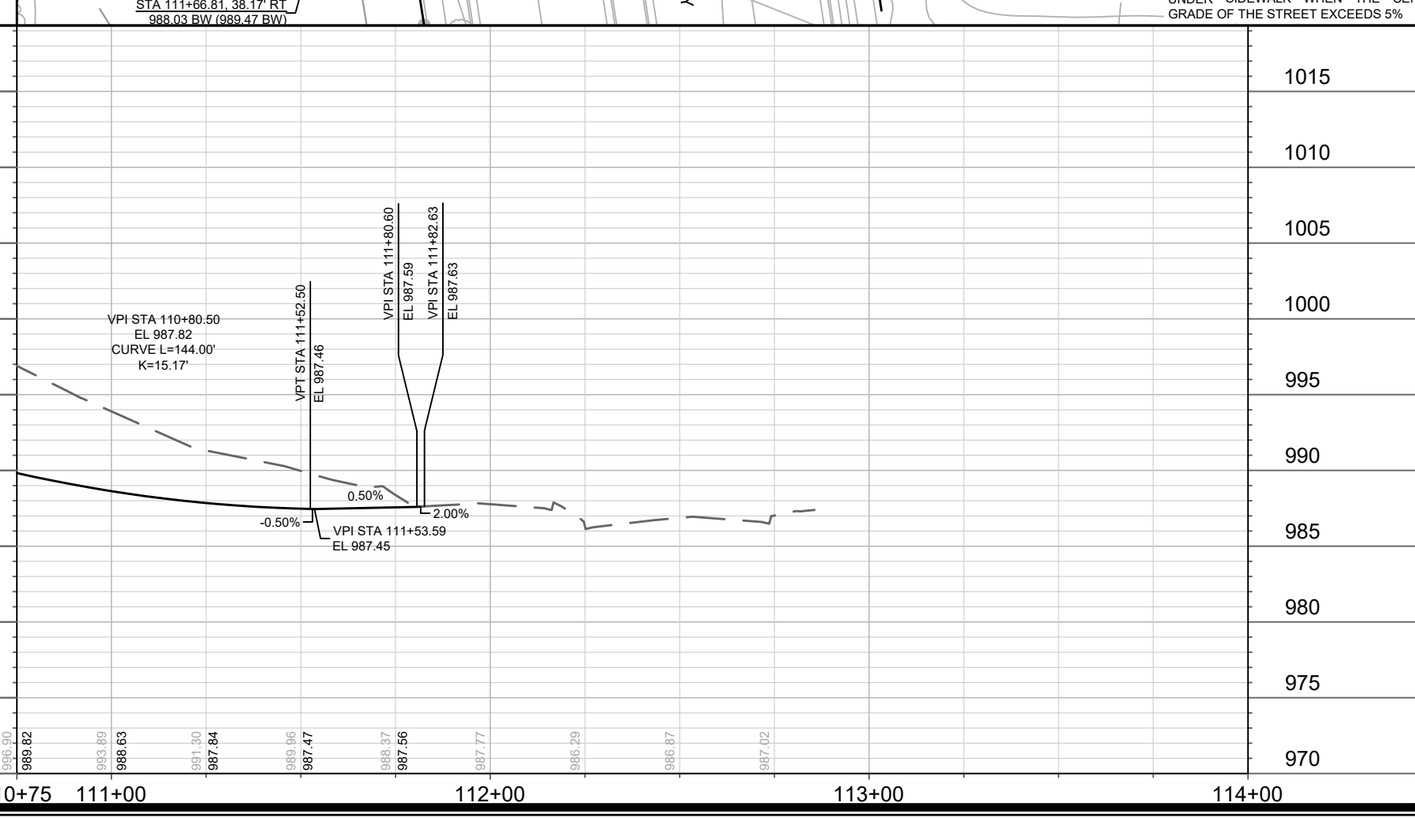
WHITNEY WAY

RW

110+75 111+00 112+00 113+00 114+00
EP STA 114+00.00

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)
- 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
- 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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MADISON, WI

CONTRACT NO: 9003

ELEMENT WAY PLAN & PROFILE
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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P-3

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

STA 201+79.05, 105.13' LT
LIMITS OF RESURFACING
MATCH EX. EP ELEV.
STA 201+69.71, 46.89' LT
1024.59 EP/PC
BEGIN CURB CONSTRUCTION
STA 201+70.00, 40.94' LT
1024.52 EP/MC
STA 201+71.55, 35.18' LT
1024.47 EP/PCC
STA 201+73.58, 26.54' LT
1024.39 EP/MC
STA 201+55.78, 31.00' LT
1025.14 RAMP
REMOVE PLANTER
STA 201+55.44, 25.00' LT
1025.07 RAMP
STA 201+73.15, 17.68' LT
1024.26 EP/PC
STA 201+71.03, 6.51' LT
1024.06 EP/END CURB CONSTRUCTION
CATALYST WAY
STA 201+95.07
BEGIN PROJECT
201+00 CL ELEV = 1024.08
STA 202+03.35, 19.37' RT
1023.70 EP/MC
REMOVE CURB & GUTTER
REMOVE TRAFFIC ISLAND
STA 201+52.46, 25.00' RT
1023.64 FW
STA 201+48.60, 25.00' RT
1023.70 LANDING
CURB RAMP
STA 201+47.98, 37.00' RT
1022.87 LANDING
STA 201+48.87, 37.00' RT
1022.86 RAMP
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)
2.00" FULL WIDTH GRINDING
TYPE 4 LT 58-28 S
STA 201+52.93, 71.27' RT
LIMITS OF RESURFACING
MATCH EX. EP ELEV.

STA 201+90.31, 91.80' LT
MATCH EX. PAVT. ELEV.
STA 202+02.29, 91.11' LT
1025.41 EP
STA 202+01.54, 78.01' LT
*1025.16 EP/
2' TYP.
**SEE NOTE
ENDEAVOR LANE
CS-5
R28'
R32'
REMOVE PLANTER
CS-5
REMOVE SIDEWALK
R27'
R32'
R28'
R27'
CS-5
R32'
R28'
STA 201+96.76, 61.55' RT
1021.87 EP/PCC
STA 201+98.51, 67.60' RT
1021.52 EP/MC
STA 201+98.86, 73.90' RT
BEGIN CURB CONSTRUCTION
MATCH EX. EP ELEV./PC

STA 202+03.01, 103.76' LT
BEGIN CURB CONSTRUCTION MATCH EX. EP ELEV.
STA 202+01.20, 72.02' LT
*1025.07 EP
STA 202+00.34, 57.04' LT
*1024.85 EP
STA 201+87.85, 41.08' LT
MATCH EX. PAVT. ELEV.
STA 201+99.40, 40.54' LT
1024.66 EP/PC
STA 202+06.72, 20.46' LT
1024.08 EP/MC
STA 202+25.20, 53.84' LT
MATCH EX. BW ELEV.
STA 202+23.89, 31.00' LT
1024.37 BW (1025.27 BW)
STA 202+26.35, 12.00' LT
1023.51 EP/PC
STA 202+36.35, 12.00' LT
1023.44 EP/PC
STA 202+50.00, 31.00' LT
1024.00 BW/GRADE BREAK
STA 202+42.19, 12.54' LT
1023.39 EP/MC
STA 202+57.89, 16.00' LT
1023.20 EP/PC
STA 202+52.78, 15.53' LT
1023.25 EP/MC
STA 202+47.84, 14.13' LT
1023.31 EP/PCC
STA 202+53.43, 16.00' RT
1023.24 EP/PC
STA 202+48.32, 15.53' RT
1023.28 EP/MC
STA 202+43.38, 14.13' RT
1023.35 EP/PCC
STA 202+50.00, 37.00' RT
1024.12 BW/GRADE BREAK
STA 202+37.73, 12.54' RT
1023.42 EP/MC
STA 202+31.89, 12.00' RT
1023.47 EP/PC
STA 202+21.89, 12.00' RT
1023.55 EP/PC
STA 202+19.59, 37.00' RT
1023.85 BW (1023.79 BW)
STA 202+18.50, 47.61' RT
MATCH EX. BW ELEV.
STA 201+94.93, 37.46' RT
1023.02 EP/PC
STA 201+94.36, 47.44' RT
1022.61 EP/PC
STA 201+94.76, 54.63' RT
1022.27 EP/MC

0709-302-0902-2
UNIVERSITY RESEARCH
PARK INC
441 Charmany Dr

0709-302-1002-0
UNIVERSITY RESEARCH
PARK INC
454 Catalyst Way

STA 204+03.75, 16.00' LT
1022.20 EP/LOW PT
STA 204+05.75, 16.00' RT
1022.20 EP/LOW PT
STA 204+03.75, 16.00' RT
1022.20 EP/LOW PT
STA 204+05.75, 16.00' RT
1022.21 EP/PC
STA 204+11.17, 15.45' RT
1022.25 EP/MC
STA 204+16.37, 13.82' RT
1022.31 EP/PCC
STA 204+23.11, 11.71' RT
1022.38 EP/MC
STA 204+30.14, 11.00' RT
1022.43 EP/PC
STA 204+40.14, 37.00' RT
1023.36 BW/DWY MATCH

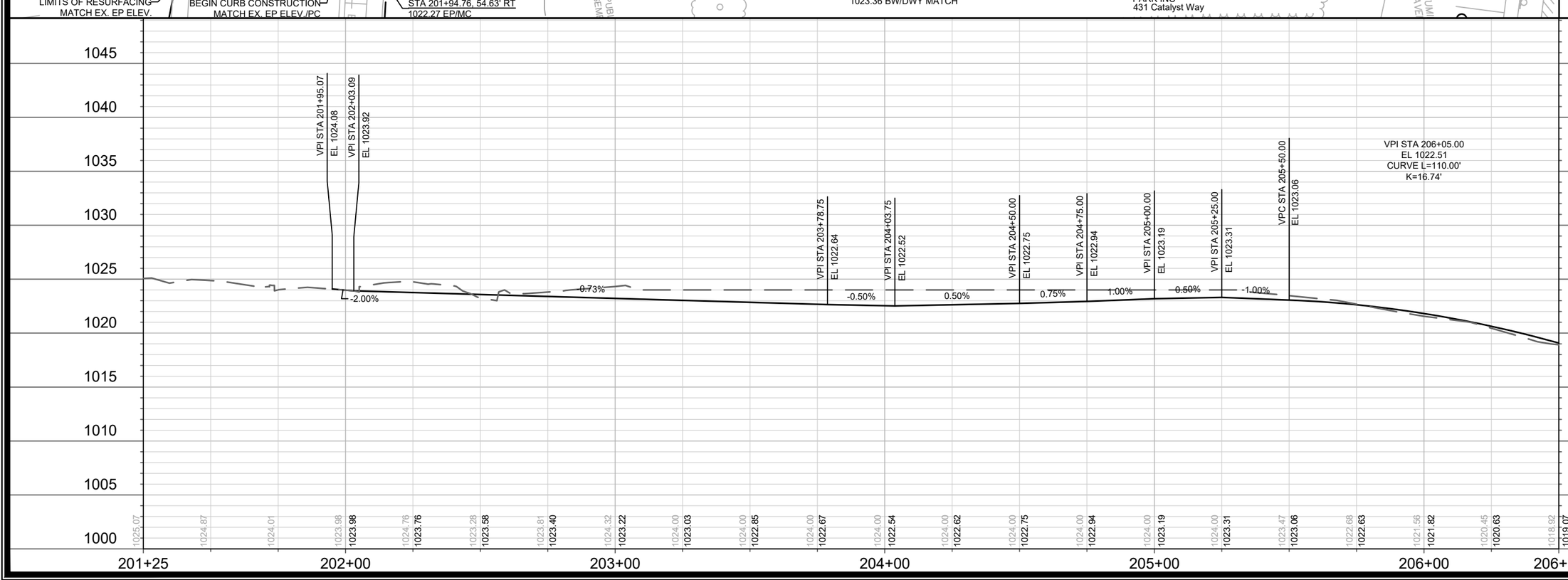
SEE COMMERCIAL DRIVEWAY
PERMIT NO. LNDSPR-2021-00067
RW
CS-5
CATALYST WAY RL
CATALYST WAY
CS-7
RW
CS-5
STA 204+98.53, 16.00' RT
1022.85 EP/PC
STA 204+93.11, 15.45' RT
1022.81 EP/MC
STA 204+87.91, 13.82' RT
1022.79 EP/PCC
STA 204+81.17, 11.71' RT
1022.76 EP/MC
STA 204+74.14, 11.00' RT
1022.71 EP/PC
STA 204+64.14, 37.00' RT
1023.48 BW/DWY MATCH

0709-302-1001-1
UNIVERSITY RESEARCH
PARK INC
431 Catalyst Way

MATCH LINE 206+50.00

70'
36'
18'
7'
6'
1'
12'
20'
20' PUBLIC EASEMENT

201+00
202+00
203+00
204+00
205+00
206+00



MARK	REVISION	DATE	BY
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Designed By: AJZ
Date: 6/30/2022 3:40 PM
Scale: 1" = 40'

13355

CATALYST WAY PLAN & PROFILE
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
MADISON, WI
CONTRACT NO: 9003

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13355
P-4

LEGEND

CLEARING & GRUBBING

SAWING ASPHALT

PROPERTY LINE, TYP.

MATCH LINE 206+50.00

PC STA 206+84.30
STA 206+84.30, 16.00' LT
1016.19 EP/PC
STA 206+84.30, 31.00' LT
1016.91 BW/PC
STA 207+07.91, 16.00' LT
1014.40 EP/MC
STA 207+07.94, 31.00' LT
1015.13 BW/MC
STA 207+31.58, 31.00' LT
1013.54 BW/PC
STA 207+31.50, 16.00' LT
1012.82 EP/PC

0709-302-0901-4
UNIVERSITY RESEARCH PARK INC
5534 Element Way

STA 207+72.79, 16.00' LT
1010.92 EP/PC
STA 207+77.90, 15.53' LT
1010.77 EP/MC
STA 207+82.84, 14.13' LT
1010.66 EP/PCC
STA 207+88.49, 12.54' LT
1010.55 EP/MC
STA 207+94.33, 12.00' LT
1010.44 EP/PC

STA 208+17.79, 12.00' LT
1010.17 EP/LOW PT
STA 208+19.79, 12.00' LT
1010.18 EP/BEGIN CURB TRANSITION
STA 208+25.79, 12.00' LT
1010.22 EP/END CURB TRANSITION/BEGIN TABLE TOP INT.

MOUNTABLE C&G TYPE 'A'

STA 208+25.79, 0.00'
1010.45 CL/BEGIN CONC. PAVT.

STA 209+80.62, 16.00' LT
1007.79 EP/PC
STA 209+75.51, 15.53' LT
1007.97 EP/MC
STA 209+70.57, 14.13' LT
1008.11 EP/PCC
STA 209+64.92, 12.54' LT
1008.26 EP/MC
STA 209+59.08, 12.00' LT
1008.42 EP/PC

STA 209+39.79, 12.00' LT
1008.95 EP/END CURB TRANSITION
STA 209+33.79, 12.00' LT
1009.13 EP/BEGIN CURB TRANSITION/END TABLE TOP INT.

STA 211+09.34, 31.23' LT
1005.84 EP/MC
STA 211+05.67, 31.00' LT
1005.73 EP/PC
STA 211+06.83, 13.00' LT
1005.07 EP/PC
STA 210+97.66, 13.00' LT
1005.13 EP/PC
STA 210+92.60, 13.40' LT
1005.15 EP/MC
STA 210+87.67, 14.60' LT
1005.18 EP/PCC
STA 210+83.36, 15.65' LT
1005.23 EP/MC
STA 210+78.93, LT 25.00', CONC.
STA 210+78.93, 16.00' LT
1005.27 EP/PC

0709-302-0208-4
UNIVERSITY RESEARC
PARK INC
5534 Element Way

CONSTRUCTION JOINT AT FOW & BOW

STA 211+12.96, 31.90' LT
1006.00 EP/PC
STA 211+25.26, 66.25' LT
MATCH EX. BW ELEV.
STA 211+25.38, 50.82' LT
1007.83 BW/PC
STA 211+25.31, 48.47' LT
1007.62 BW/MC
STA 211+25.05, 46.14' LT
1007.41 BW/PC
STA 211+38.83, 45.26' LT
END CURB CONSTRUCTION
MATCH EX. EP ELEV.
REMOVE SIDEWALK
REMOVE CURB & GUTTER
STA 211+23.30, 34.49' LT
1006.45 BW (1007.27 BW)
STA 211+29.55, 22.47' LT
1006.07 EP/MC
CATALYST WAY
STA 211+39.72
END PROJECT/CONC. PAVT.
CL ELEV = 1004.86
STA 210+98.18, 13.00' RT
1004.04 EP/PC
STA 211+07.57, 13.00' RT
1003.95 EP/PC
STA 211+30.10, 22.28' RT
1003.54 EP/MC
STA 211+23.35, 34.41' RT
1003.98 BW (1003.39 BW)
STA 211+39.57, 44.74' RT
END CURB CONSTRUCTION
MATCH EX. EP ELEV.
STA 211+25.81, 52.23' RT
1002.52 BW/PC
STA 211+26.02, 54.18' RT
1002.36 BW/MC
STA 211+26.09, 56.15' RT
1002.20 BW/PC
STA 211+26.12, 61.21' RT
MATCH EX. BW ELEV.
STA 211+24.04, 39.41' RT
1003.58 CONC.
STA 211+15.22, 26.99' RT
1004.27 BW/ANGLE PT
STA 211+15.22, 37.86' RT
1003.97 CONC.
STA 211+04.83, 13.00' RT
1003.97 EP/LOW PT

CATALYST WAY

PT STA 207+31.58

STA 206+60.21, RT 18.50', CONC.

STA 207+68.00, RT 20.00', CONC.

STA 207+31.51, 37.00' RT
1013.64 BW/PC
STA 207+31.50, 16.00' RT
1012.82 EP/PC
STA 207+07.94, 16.00' RT
1014.40 EP/MC
STA 207+07.94, 37.00' RT
1015.22 BW/MC
STA 206+84.37, 16.00' RT
1016.18 EP/PC
STA 206+84.37, 37.00' RT
1017.00 BW/PC

0709-302-1001-1
UNIVERSITY RESEARCH PARK INC
431 Catalyst Way

STA 207+94.33, 12.00' RT
1010.44 EP/PC
STA 207+88.49, 12.54' RT
1010.55 EP/MC
STA 207+82.84, 14.13' RT
1010.66 EP/PCC
STA 207+77.90, 15.53' RT
1010.77 EP/MC
STA 207+72.79, 16.00' RT
1010.92 EP/PC

STA 208+25.79, 12.00' RT
1010.21 EP/END CURB TRANSITION/BEGIN TABLE TOP INT.
STA 208+19.79, 12.00' RT
1010.18 EP/BEGIN CURB TRANSITION
STA 208+17.79, 12.00' RT
1010.17 EP/LOW PT

STA 209+39.79, 12.00' RT
1008.95 EP/END CURB TRANSITION
STA 209+33.79, 12.00' RT
1009.13 EP/BEGIN CURB TRANSITION/END TABLE TOP INT.

STA 209+59.08, 12.00' RT
1008.38 EP/PC
STA 209+64.92, 12.54' RT
1008.19 EP/MC
STA 209+70.57, 14.13' RT
1007.99 EP/PCC
STA 209+75.51, 15.53' RT
1007.81 EP/MC
STA 209+80.62, 16.00' RT
1007.59 EP/PC

0709-302-0801-6
UNIVERSITY RESEAR
PARK INC
5510 Element Way

CONSTRUCTION JOINT AT FOW & BOW

STA 210+79.44, 16.00' RT
1004.25 EP/PC
STA 210+66.77, 37.00' RT
1005.23 BW/ANGLE PT
STA 210+83.87, 15.65' RT
1004.17 EP/MC
STA 210+81.56, 26.99' RT
1004.68 BW/ANGLE PT
STA 210+81.56, 37.00' RT
1004.52 CONC.
STA 210+88.19, 14.60' RT
1004.13 EP/PCC
STA 210+93.12, 13.40' RT
1004.09 EP/MC

STA 210+66.77, RT 20.00', CONC.

ELECTRIC TRANSFORMERS TO REMAIN

STA 210+98.18, 0.00'
1004.55 CL/BEGIN CONC. PAVT.

MINERAL POINT ROAD

SEE SHEET P-2 FOR INTERSECTION GRADES

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

VPI STA 206+05.00
EL 1022.51
CURVE L=110.00'
K=16.74'

VPT STA 206+60.00
EL 1018.35

VPC STA 207+06.00
EL 1014.86

VPI STA 207+61.00
EL 1010.70
CURVE L=110.00'
K=15.55'

VPT STA 208+16.00
EL 1010.42

VPI STA 208+17.79
EL 1010.41

VPI STA 208+25.79
EL 1010.45

VPI STA 208+40.79
EL 1010.60

VPI STA 208+67.79
EL 1010.33

VPI STA 208+79.79
EL 1010.21

VPI STA 208+91.79
EL 1010.09

VPI STA 209+18.79
EL 1009.82

VPI STA 209+33.79
EL 1009.37

VPI STA 209+75.00
EL 1008.14

VPC STA 210+14.00
EL 1006.56

VPI STA 210+59.00
EL 1004.74
CURVE L=90.00'
K=25.38'

VPT STA 211+04.00
EL 1004.51

VPI STA 211+39.72
EL 1004.86

VPI STA 211+41.20
EL 1004.89

VPI STA 211+04.83
EL 1004.51

-7.57%, -0.50%, 0.50%, 1.00%, -1.00%, -1.00%, -1.00%, -1.00%, -3.00%, -3.00%, -4.05%, -0.50%, 1.00%, 2.00%

1035 1030 1025 1020 1015 1010 1005 1000 995 990

1018.92 1019.07 | 1018.25 1017.21 | 1017.25 1015.32 | 1014.65 1013.54 | 1013.42 1012.15 | 1012.52 1011.17 | 1011.47 1010.59 | 1010.64 1010.45 | 1009.77 1010.51 | 1008.82 1010.26 | 1007.33 1010.01 | 1006.75 1009.64 | 1006.29 1008.89 | 1005.83 1008.14 | 1004.96 1007.13 | 1004.56 1006.14 | 1004.41 1005.36 | 1004.46 1004.83 | 1004.47 1004.54 | 1005.38 1004.71

206+50 207+00 208+00 209+00 210+00 211+00 211+75

MARK	REVISION	DATE	BY
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Scale: 1" = 40'

Date: 6/30/2022 3:40 PM

Designed By: AJZ

13355

P-5

13355

MADISON, WI

9003

CONTRACT NO:

CATALYST WAY PLAN & PROFILE

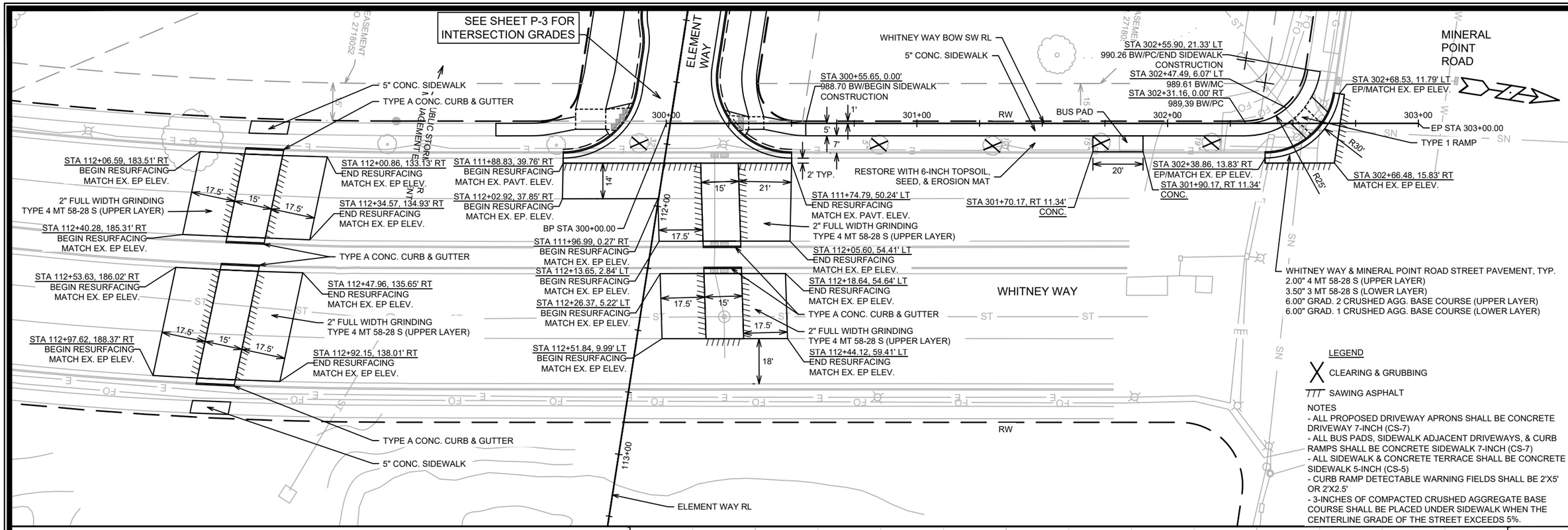
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

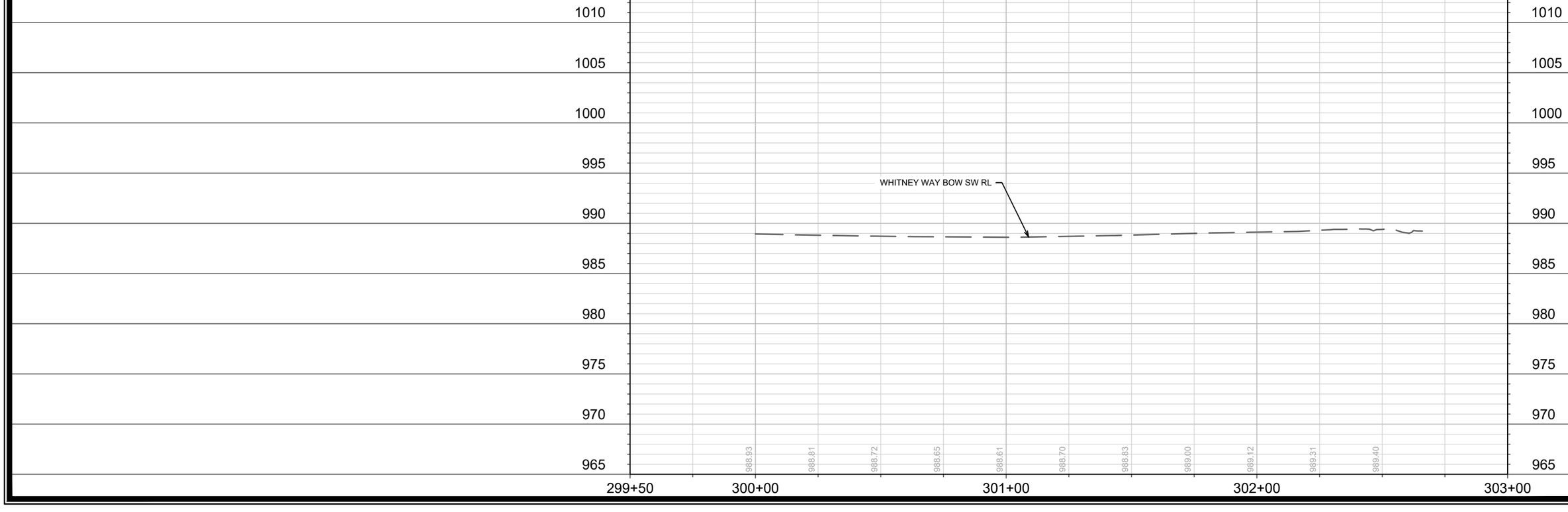
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CITY OF MADISON WISCONSIN

13355

P-5





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REVISION		
Date: 6/30/2022 3:41 PM		
Designed By: AJZ		

Scale: 1" = 40'

P-6

13355

WHITNEY WAY SIDEWALK PLAN & PROFILE; PAVEMENT REPLACEMENT

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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13355

P-6

MINERAL POINT ROAD

STA 211+50.59, 74.07' LT
BEGIN RESURFACING
MATCH EX. PAVT. ELEV.
STA 211+38.59, 74.12' LT
BEGIN RESURFACING
MATCH EX. EP ELEV.

2" FULL WIDTH GRINDING
TYPE 4 MT 58-28 S (UPPER LAYER)

2' TYP.

STA 211+51.84, 78.37' RT
END RESURFACING
MATCH EX. PAVT. ELEV.
STA 211+39.84, 78.39' RT
END RESURFACING
MATCH EX. EP ELEV.

SEE SHEET P-5 FOR
INTERSECTION GRADES

15'

20'

20' PUBLIC WATER MAIN
EASEMENT DOC 3461981

RW

CATALYST WAY

10-IN C.I. (1960)

10-IN D.I.

12"

17"

20' PUBLIC WATER MAIN
EASEMENT DOC 3461981

RW

709-302-0801-6
NIVERSITY RESEARCH
ARK INC
510 Element Way

JBLIC WATER MAIN
MENT DOC 3461981

34 Element Way

212+00

211+00

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
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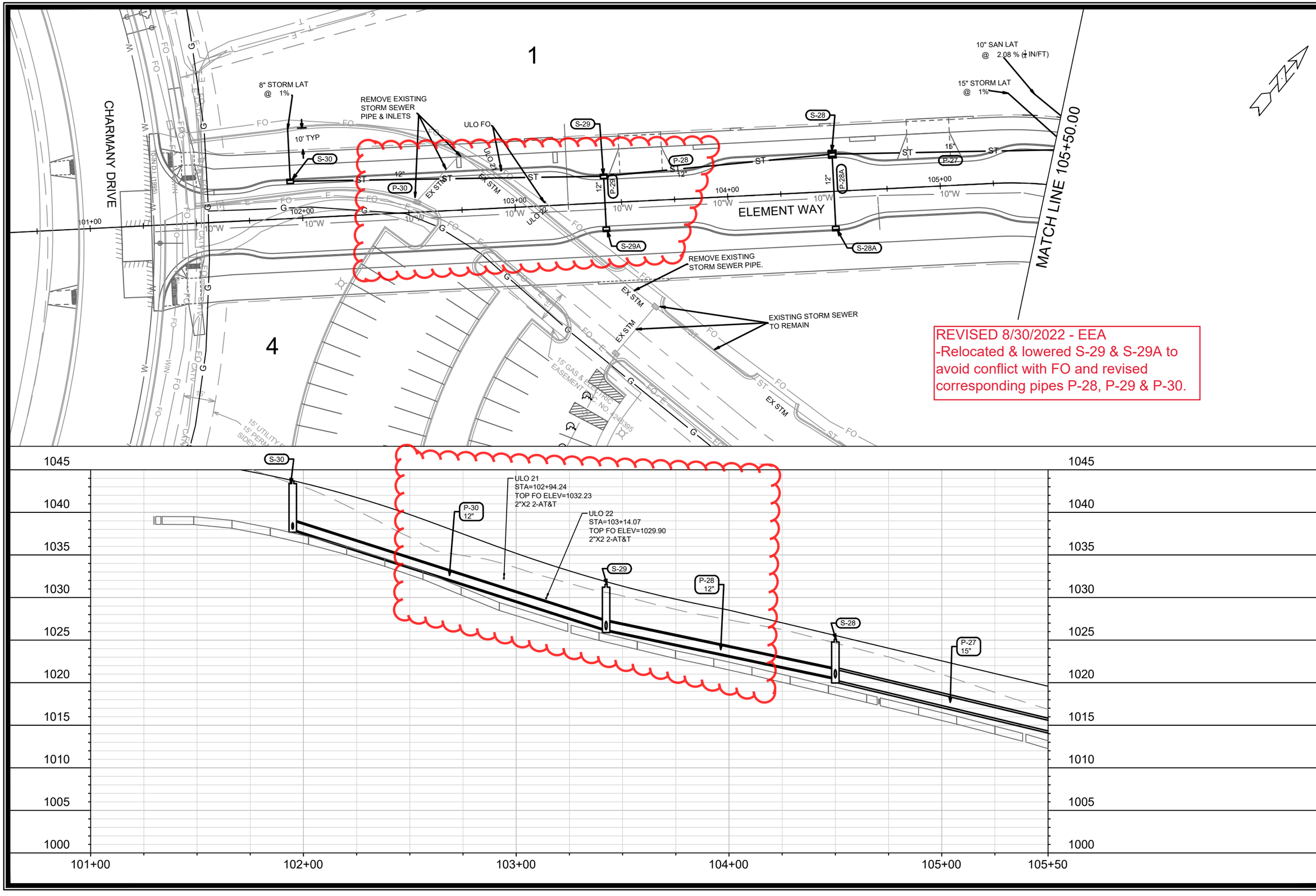
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Scale: 1" = 20'
13355
P-7

13355
MADISON, WI
9003
CONTRACT NO:

MINERAL POINT ROAD PAVEMENT REPLACEMENT
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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13355
P-7



MARK	REVISION	Date: 9/7/2022 3:30 PM	Designed By: EEA	13355
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DATE	BY
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Scale: 1" = 40'

U-1

13355

MADISON, WI

CONTRACT NO: 9003

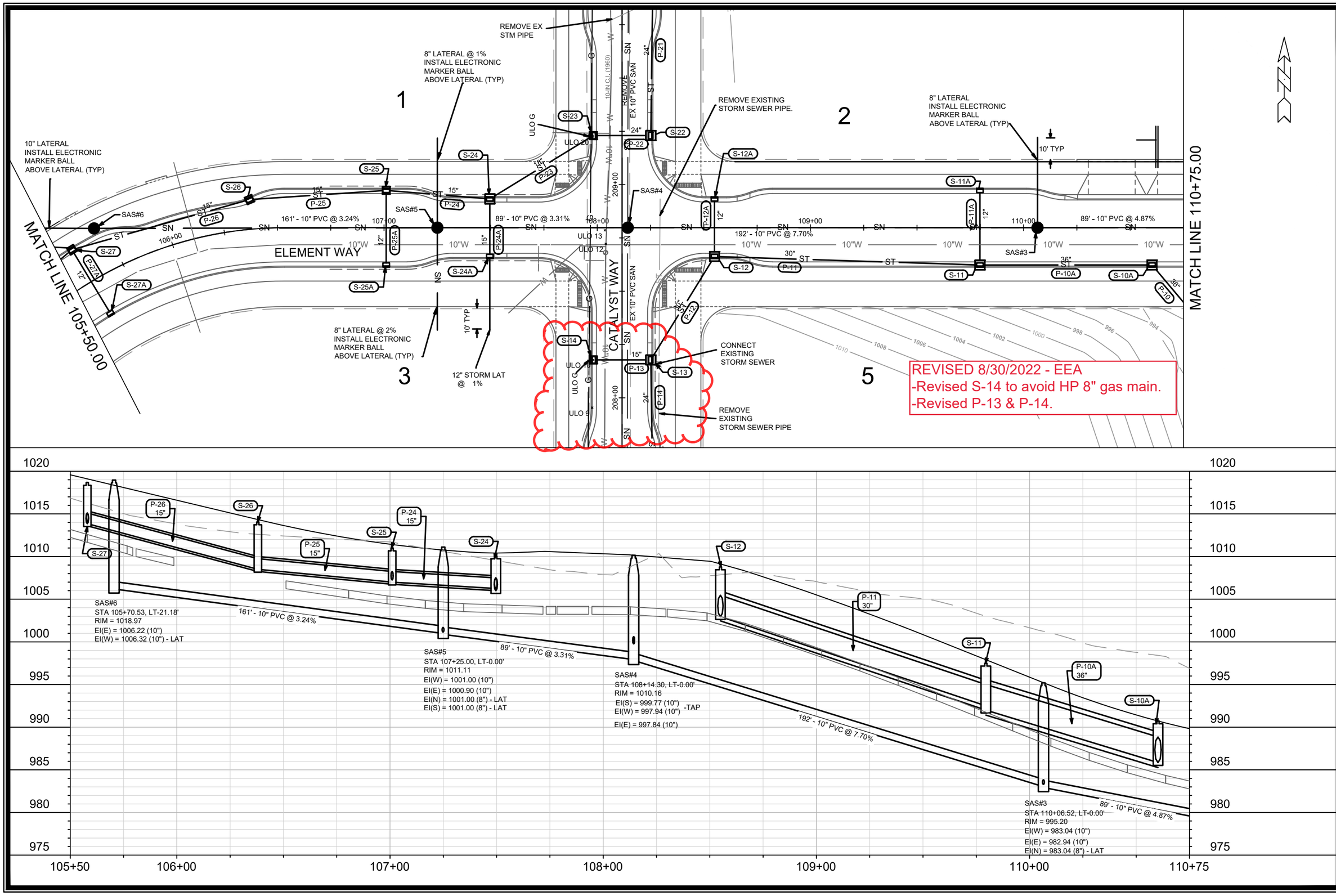
ELEMENT WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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13355

U-1



MARK	REVISION	Date: 9/1/2022 3:28 PM	DATE	BY
Designed By: EEA		Scale: 1" = 40'		

13355

U-2

ELEMENT WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

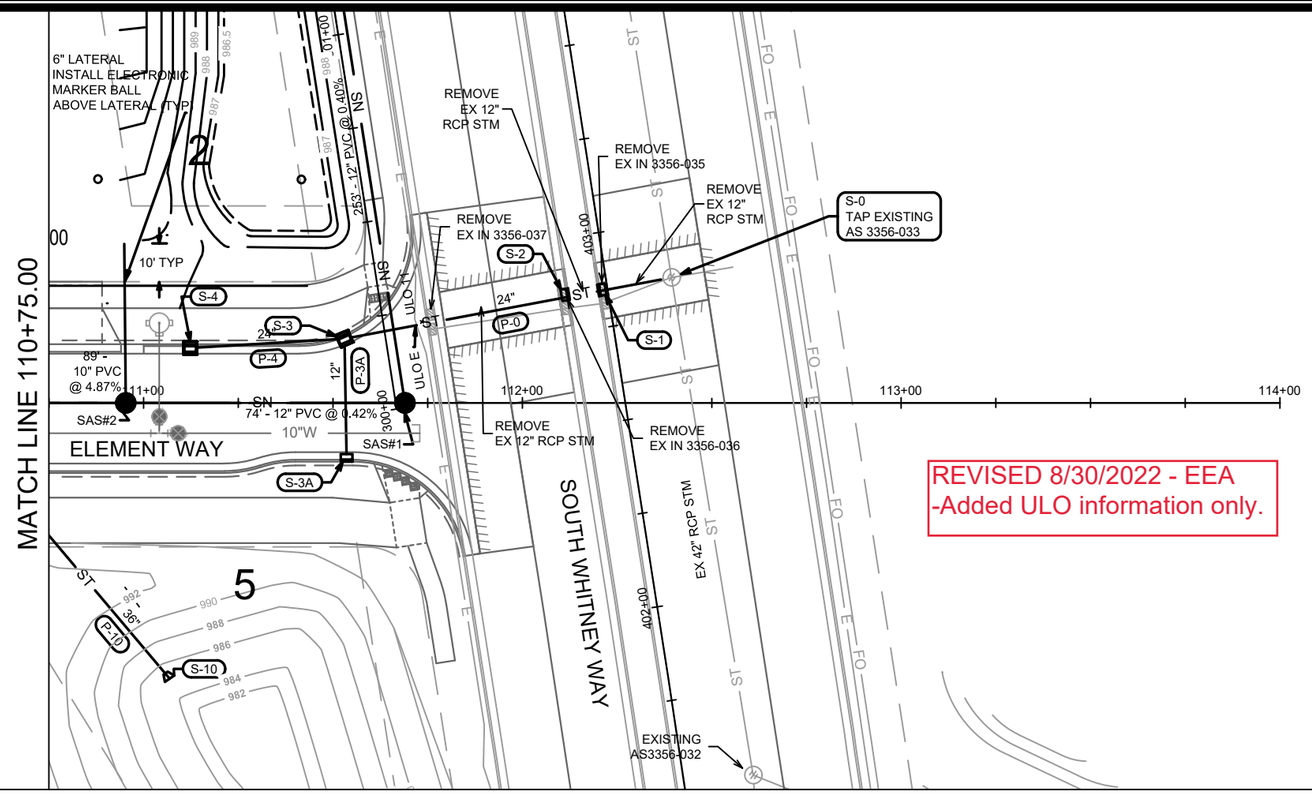
MADISON, WI

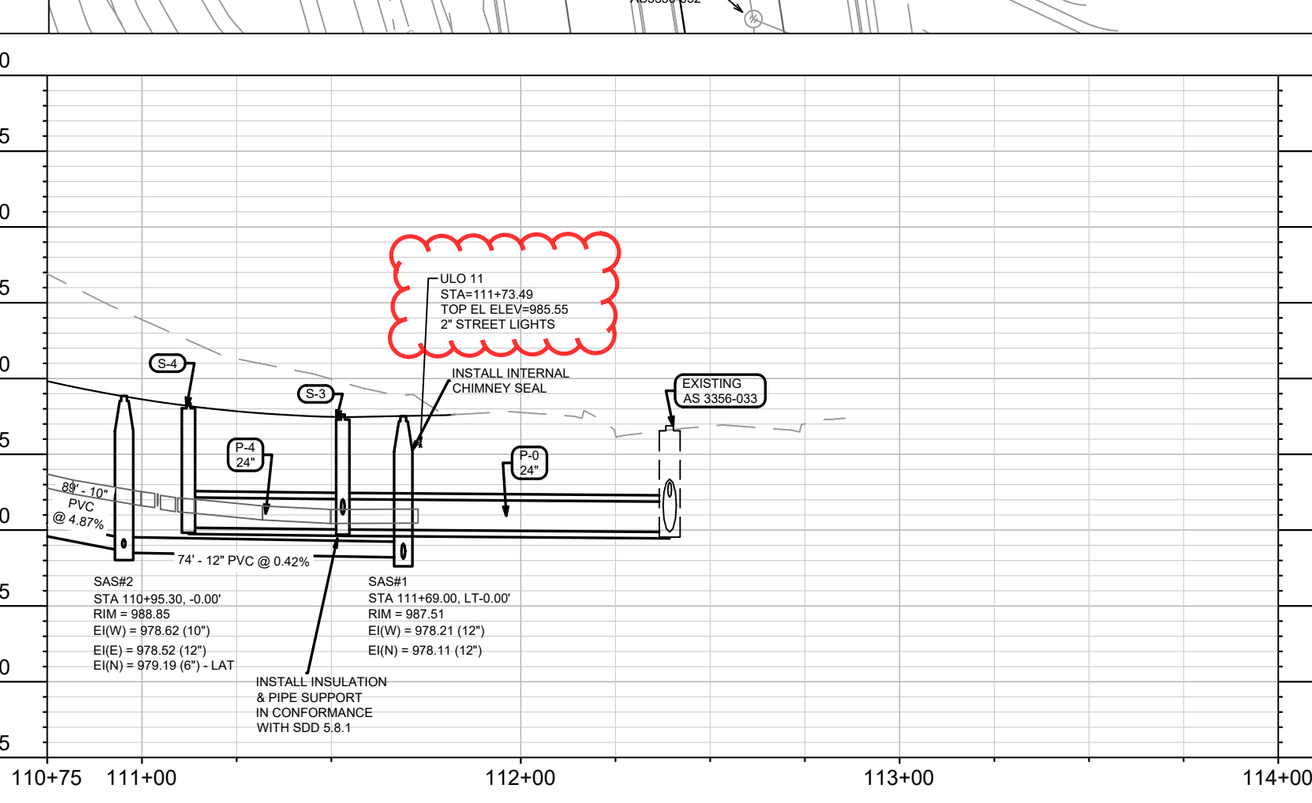
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13355

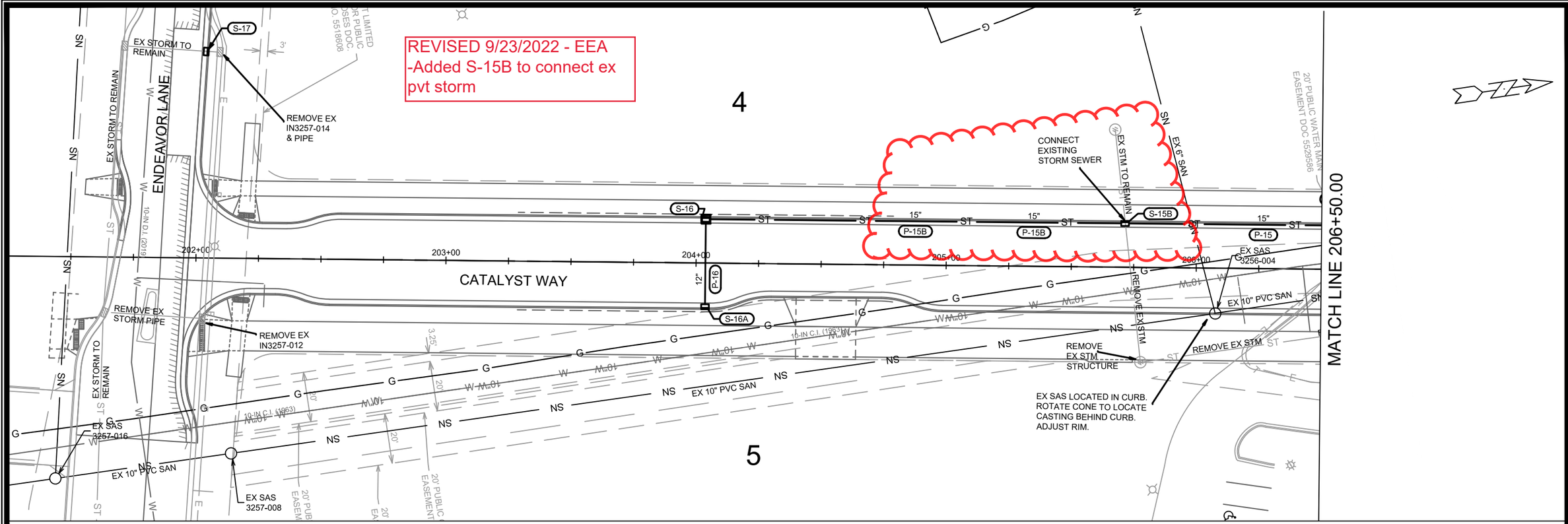
U-2

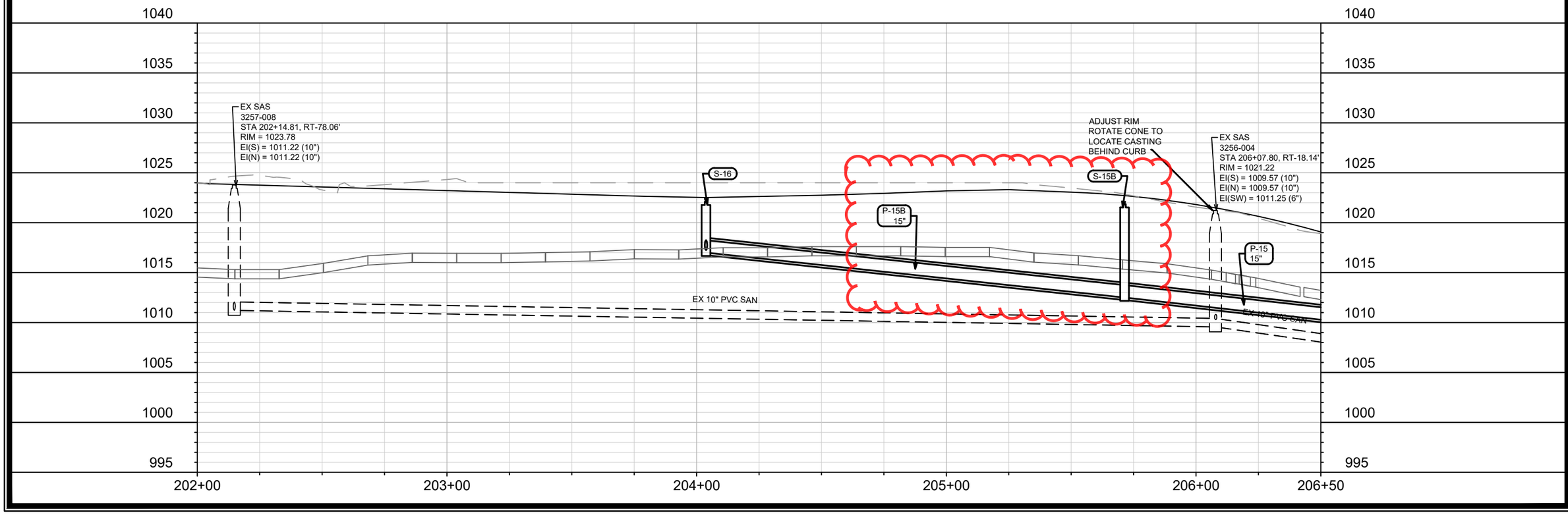




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REVISED 9/23/2022 - EEA
-Added S-15B to connect ex pvt storm





MARK	REVISION	Date	BY
REV2	STORM CHANGES	9/23/22	EEA
REV1	ULO & STORM UPDATES	8/30/22	EEA

Designed By: AJZ | Date: 9/23/2022 2:38 PM | Scale: 1" = 40'

13355

CATALYST WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

MADISON, WI

CONTRACT NO: 9003

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13355

U-4

8" LATERAL @ 2%
INSTALL ELECTRONIC
MARKER BALL
ABOVE LATERAL (TYP)

SAS#5

8" LATERAL @ 1%
INSTALL ELECTRONIC
MARKER BALL
ABOVE LATERAL (TYP)

12" STORM LAT
@ 1%

10' TYP

3

1

DEVELOPER TO VERIFY
WITH MG&E ANY SPECIAL
REQUIREMENTS FOR
CONSTRUCTION OVER
HP GAS MAIN.

FIELD SET INLET
CONNECT EX
STORM PIPES

EX STM TO REMAIN

CONNECT
EXISTING
STORM SEWER

MATCH LINE 206+50.00

ULO G
ULO T
ULO E
ULO 1
ULO 7
ULO 6
ULO 4
ULO G
ULO FO

S-15
P-15
15"
S-15A
P-15A
15"

ELEMENT WAY
NS
89' - 10" PVC @ 3.31%
108+00

ULO 8
ULO 9
ULO G
S-14
ULO 10
ULO 12
ULO 20
S-23
S-24A
P-24A
S-24
P-24
15"
P-23
15"

10-IN C.I. (1963)
10-IN C.I. (1960)

207+00
208+00
209+00
210+00
211+00
212+00

SN
EX 10" PVC SAN
SAS#4
REMOVE
EX 10" PVC SAN
REMOVE
EX SAS
3256-003

CATALYST WAY
ST
24"
P-13
15"
P-14
S-13
P-12
30"
S-12
TP-12A
12"
S-12A
P-22
24"
S-22
P-21
24"

REMOVE EX STM
REMOVE EX STM
REMOVE EX STM INLET
S-15A
REMOVE EXISTING
STORM SEWER INLET.

REMOVE
EXISTING
STORM SEWER PIPE

CONNECT
EXISTING
STORM SEWER

REMOVE EXISTING
STORM SEWER PIPE.

REMOVE EX
STM PIPE

REMOVE
EX 10" PVC SAN

REMOVE
EX SAS
3356-012

5

2

REVISED 9/23/2022 - EEA
-Moved field set inlet to terrace

MINERAL POINT ROAD
10"W
10-IN D.I. (1973)

12" STORM LAT
@ 1%

Nothing 18

S-21B
P-21A
12"
P-21B
12"
S-21
S-21A
ULO E
Nothing 16
E-20
16"
S-20

1004
1003
1001
1000
999
998
997
996
995
1002
1000

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

Designed By: AJZ | Date: 9/23/2022 2:37 PM | Scale: 1" = 40' | U-5

13355

MADISON, WI

CONTRACT NO: 9003

CATALYST WAY - UTILITIES PLAN & PROFILE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

M:\DESIGN\Projects\13355\CAD\Sewers\13355SWR-PipeNetwork.dwg

13355

U-5

1030
1025
1020
1015
1010
1005
1000
995
990
985

206+50
207+00
208+00
209+00
210+00
211+00
211+75

ULO 1
STA=206+80.31
TOP 3" GAS ELEV=1013.75
MG&E

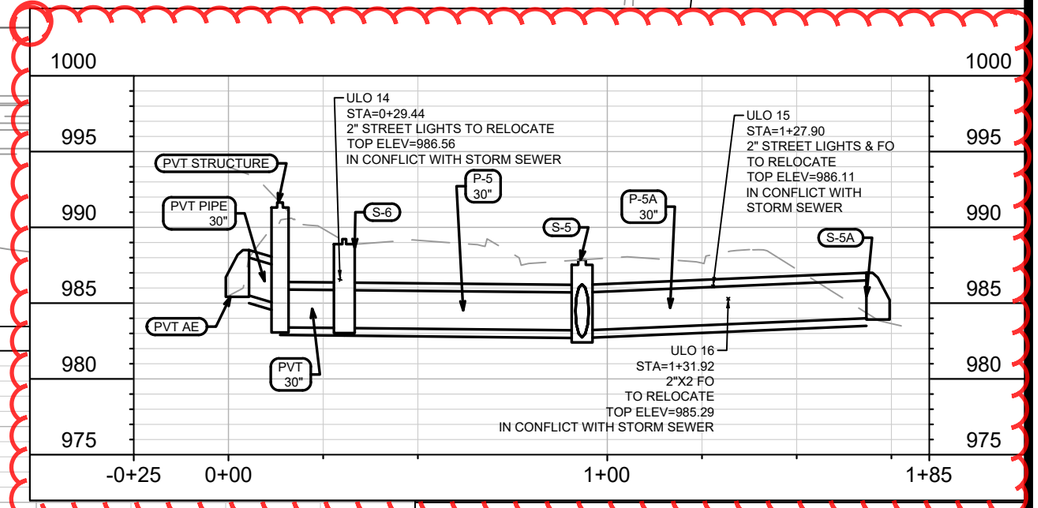
ULO 7
STA=206+98.36
TOP 1" GAS ELEV=1012.82
GAS SERVICE

ULO 5
STA=207+02.80
TOP FIBER ELEV=1013.27
3"X2 FIBER

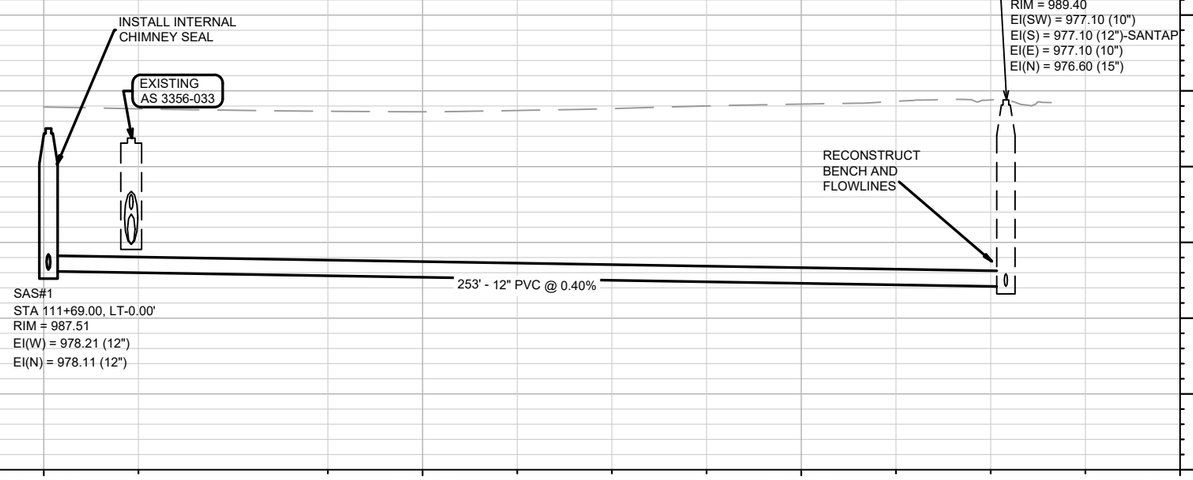
ULO 10
STA=208+17.79
TOP HP 8" GAS ELEV=1006.04
MG&E

P-15
15"
S-15
S-15A
P-14
24"
ULO 4
S-13
ULO 9
S-22
P-21
24"
REMOVE
EX SAS
3256-003
STA 210+08.62, RT-2.95'
RIM = 1006.79
EI(S) = 994.90 (10")
EI(NE) = 994.90 (10")
P-21A
12"
S-21
S-21A
P-15A
15"
ULO 2
STA=206+76.66
TOP 4" TEL ELEV=1013.89
ULO 8
EX 10" PVC SAN
ULO 12
ULO 13
REMOVE EX 10" PVC SAN
ULO 17
ULO 3
STA=206+76.31
TOP EL 1"X4 ELEV=1013.70
POWER WIRES
SAS#4
STA 108+14.30, LT-0.00'
RIM = 1010.16
EI(S) = 999.77 (10") -TAP
EI(W) = 997.94 (10")
EI(E) = 997.84 (10")
ULO 20
STA=209+22.46
TOP 8" HP GAS ELEV=1002.08
MG&E

PVT STRUCTURE BY OTHERS
PVT AE BY OTHERS
PVT PIPE 30" BY OTHERS
PVT PIPE 30" BY OTHERS
ULO 1A
S-6
ULO E E TO RELOCATE, IN CONFLICT WITH STORM SEWER
SOUTH WHITNEY WAY
P-6 30"
400+00
401+00
402+00
403+00
404+00
EX 42" RCP STM
ST
S-5
1+00
30"
P-5A
ULO 15
ULO 16
ULO E ULO FO FO & E TO RELOCATE, IN CONFLICT WITH STORM SEWER
S-5A
1+78
EXISTING AS3356-032
EX 42" RCP STM
S-3A
ELEMENT WAY
74' - 12" PVC @ 0.42%
NS
P-4
24"
S-3
12"
P-3A
300+00
SAS#1
ULO E
253' - 12" PVC @ 0.40%
301+00
302+00
303+00
SN
REMOVE EX SAS 3356-011
EX SAS 3356-001 TO REMAIN
MINERAL POINT ROAD
REMOVE EX 12" RCP STM
REMOVE EX IN 3356-037
REMOVE EX IN 3356-036
112+00
P-0
24"
S-2
REMOVE EX 12" RCP STM
S-1
REMOVE EX IN 3356-035
REMOVE EX 12" RCP STM
S-0 TAP EXISTING AS 3356-033
113+00
EX 10" SAN



REVISED 8/30/2022 - EEA
-Added profile view of storm pipe crossing S Whitney Way
-Aded ULO information
-FO & E to relocate, in conflict with storm sewer.



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

U-6

13355

MADISON, WI

CONTRACT NO: 9003

WHITNEY WAY - SANITARY SEWER PLAN & PROFILE
UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT

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CITY OF MADISON WISCONSIN

13355
U-6

SANITARY SEWER SCHEDULE

UNIVERSITY RESEARCH PARK - ELEMENT DISTRICT	SHEET NO.
PROJECT NO. 13355	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+25.00	CL	1011.11	1000.90	10.21	-
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	89	3.31%	10"	SDR-35	-
SAS#5	SAS#6	1001.00	1006.22	161	3.24%	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	-

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

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
* 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**	**205+71.39**	**LT-17.50**	**H INLET**	**1022.77**	**1012.50**	**10.27**	**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)
S-20	210+89.61	RT-96.26	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**	**1012.50**	**96**	**93**	**2.90%**	15"	TYPE II	-
++ **P-15B**	**S-15B**	**S-16**	**1012.50**	1017.00	**168**	**165**	**2.73%**	15"	TYPE II	-
++ P-16	S-16	S-16A	1017.25	1018.98	35	33	5.24%	12"	TYPE I	-
P-20	S-20	S-21	992.50	999.05	81	78	8.40%	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=1016.28

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

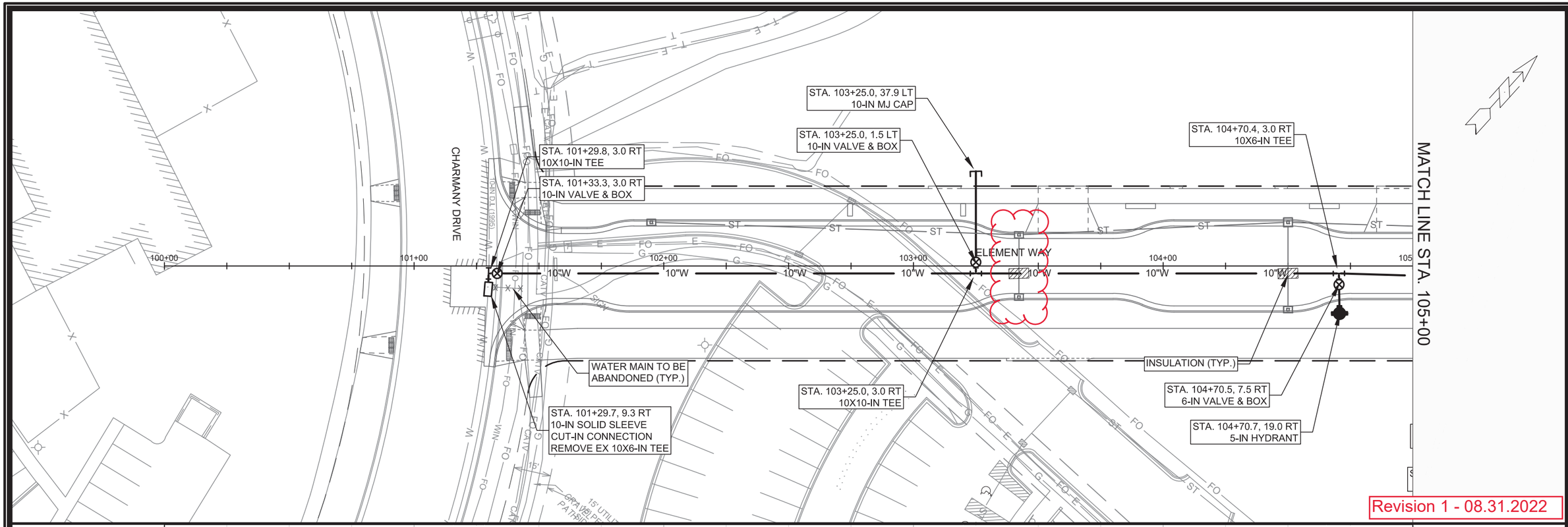
ULO SCHEDULE

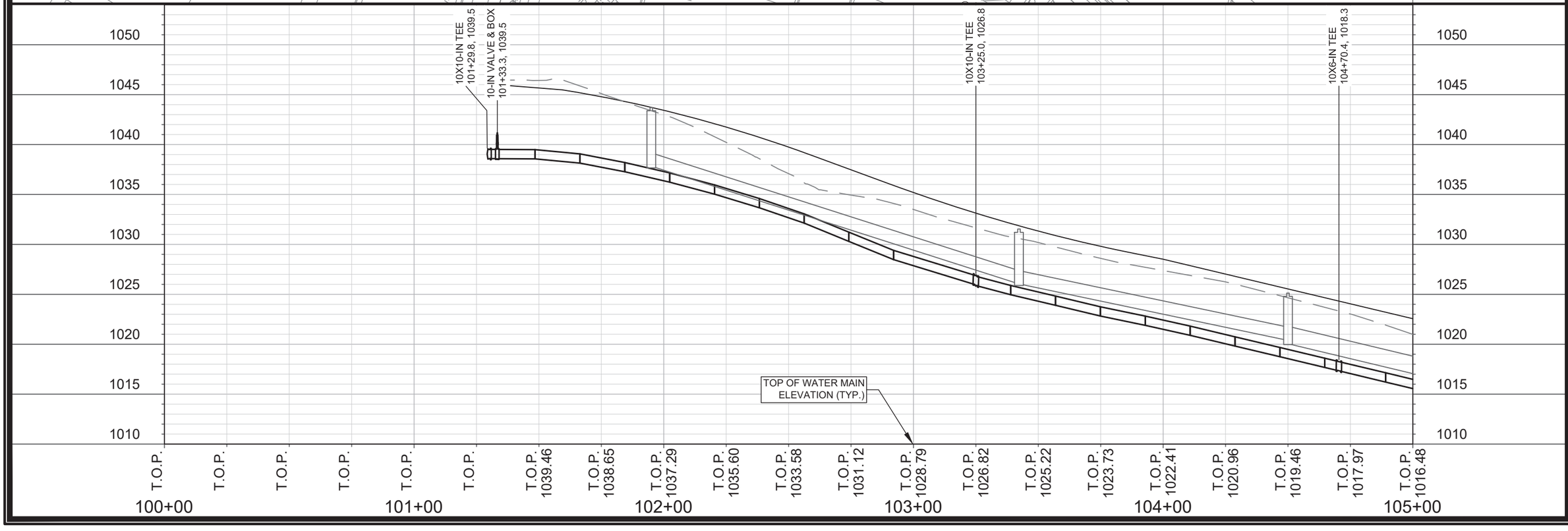
*** REVISED 8/30/2022 - EEA**

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





Revision 1 - 08.31.2022

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

CONTRACT NO: 9003

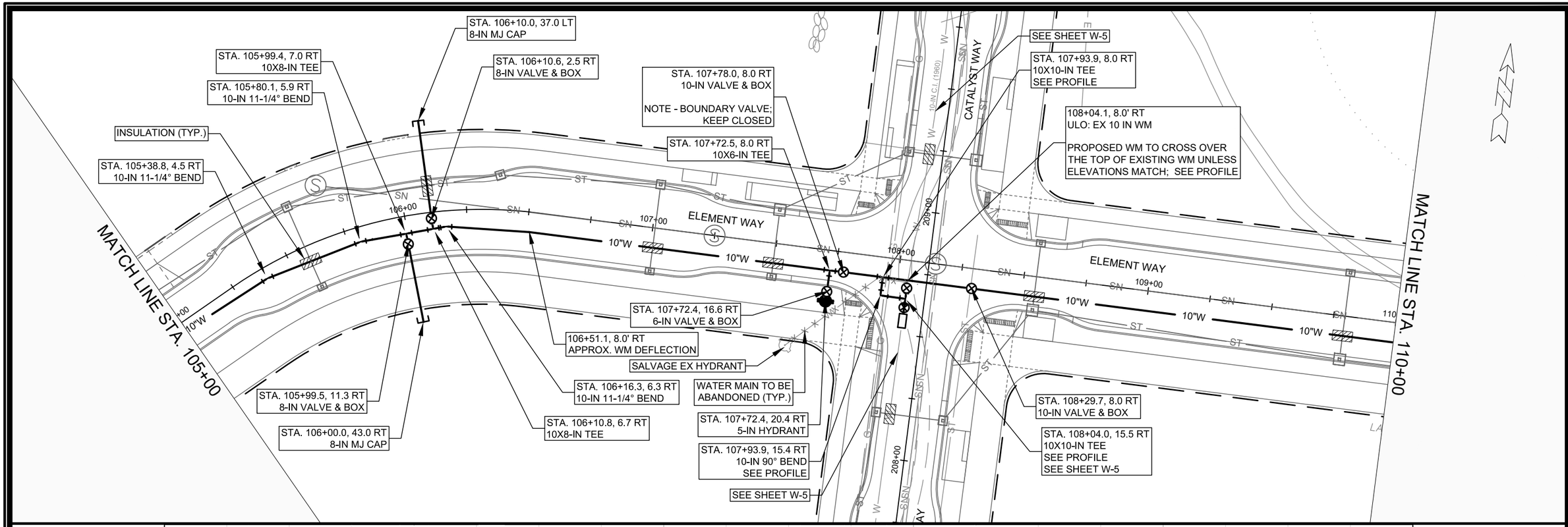
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

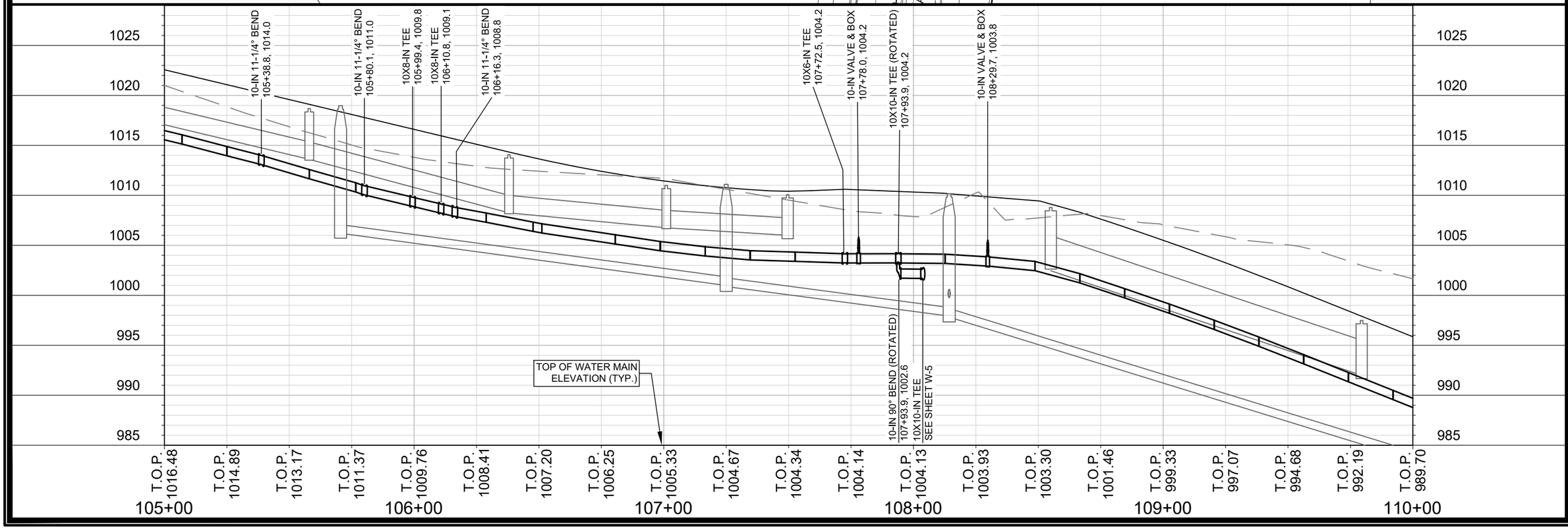
ELEMENT WAY WATER MAIN PLAN & PROFILE

CITY OF MADISON, WISCONSIN

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

13355

W-2

MATCH LINE STA. 110+00

STA. 111+04.1, 21.1 LT
5-IN HYDRANT

RESTRAIN HYDRANT
PIPE JOINTS AS REQ.

STA. 111+04.2, 3.6 RT
6-IN VALVE & BOX

STA. 111+04.2, 8.0 RT
10X6-IN TEE

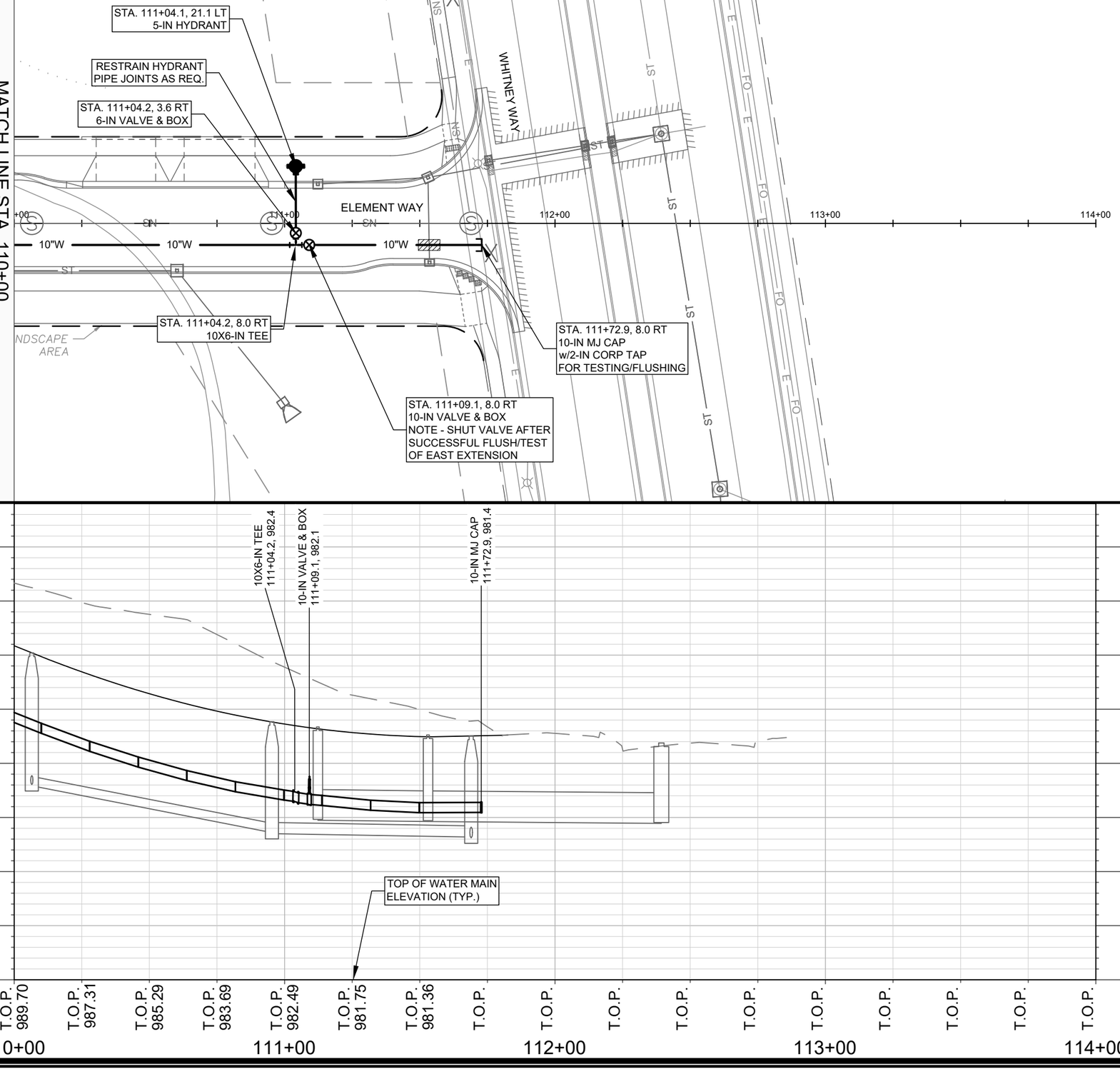
STA. 111+09.1, 8.0 RT
10-IN VALVE & BOX
NOTE - SHUT VALVE AFTER
SUCCESSFUL FLUSH/TEST
OF EAST EXTENSION

STA. 111+72.9, 8.0 RT
10-IN MJ CAP
w/2-IN CORP TAP
FOR TESTING/FLUSHING

WHITNEY WAY

ELEMENT WAY

NDSCAPE
AREA



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

13355

W-3

202+09.7, 9.4' RT
RELOCATE EX HYDRANT
CONNECT TO EX 6-IN PIPE

RESTRAIN PIPE JOINTS

STA. 202+27.6, 10.1 RT
6-IN 90° BEND

STA. 202+27.3, 19.3 RT
5-IN HYDRANT (RELO)

ENDEAVOR LANE

CATALYST WAY

LOT 40

10-IN D.I. (2019)

10-IN C.I. (1963)

MATCH LINE STA. 205+00

200+00 201+00 202+00 203+00 204+00 205

1035 1030 1025 1020 1015 1010 1005 1000 995

PROJECTED EXISTING
TOP OF WATER MAIN
ELEVATION (TYP.);
VERIFY DEPTH AS REQUIRED

T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P.	T.O.P. 1015.47	T.O.P. 1015.28	T.O.P. 1015.89	T.O.P. 1016.77	T.O.P. 1016.92	T.O.P. 1016.91	T.O.P. 1017.03	T.O.P. 1017.29	T.O.P. 1017.35	T.O.P. 1017.48	T.O.P. 1017.59	T.O.P. 1017.60	T.O.P. 1017.52
200+00				201+00				202+00				203+00				204+00				205+00

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

MATCH LINE STA. 205+00

MATCH LINE STA. 210+00

CATALYST WAY

ELEMENT WAY

NEUTRALIZATION M = 1024.75 1021.30

207+74.1, 8.2' LT
ULO: EX 10-IN WM
INSULATE IF FINAL DEPTH <5.0-FT

STA. 206+16.5, 2.9 RT
10X6-IN TEE

STA. 206+11.8, 3.6 RT
10-IN VALVE & BOX

STA. 206+21.8, 2.0 RT
10-IN SOLID SLEEVE
CUT-IN CONNECTION
INSTALL ANODE

INSULATION (TYP.)

WATER MAIN TO BE
ABANDONED (TYP.)

WN 3
1½-IN

WN 3
¾-IN

STA. 209+94.8, 5.6 LT
10X8-IN TEE

SEE SHEET W-2

STA. 209+91.6, 5.6 LT
10-IN SOLID SLEEVE
CUT-IN CONNECTION
INSTALL ANODE

10-IN C.I. (1963)

10-IN C.I. (1960)

STA. 206+17.2, 7.3 RT
6-IN VALVE & BOX

STA. 206+19.7, 22.0 RT
5-IN HYDRANT
NOTE - PLUG DRAIN PORTS

206+77.5, 5.8' LT
ULO: EX 10-IN WM
OFFSET UNDER STORM AS REQ
(4 X 10-IN 45° BENDS)

STA. 208+55.4, 7.7 LT
10-IN SOLID SLEEVE
CUT-IN CONNECTION
INSTALL ANODE

STA. 208+60.8, 7.7 LT
10-IN VALVE & BOX

STA. 208+64.3, 7.6 LT
10X10-IN TEE
REMOVE EX 10-IN X 6-IN TEE

STA. 208+68.6, 7.7 LT
10-IN VALVE & BOX
REMOVE EX VALVE

SEE SHEET W-2

STA. 209+94.8, 1.2 LT
8-IN VALVE & BOX

STA. 209+94.8, 44.6 RT
8-IN MJ CAP

PROPOSED WM TO CROSS OVER
THE TOP OF EXISTING WM UNLESS
ELEVATIONS MATCH; SEE PROFILE

Revision 1 - 08.31.2022

10-IN VALVE & BOX
206+11.8, 1015.0

10X6-IN TEE
206+16.5, 1014.8

10-IN SOLID SLEEVE
206+21.8, 1014.5

10-IN SOLID SLEEVE
208+55.4, 1003.2

10-IN VALVE & BOX
208+60.8, 1002.9

10X10-IN TEE
208+64.3, 1002.6

10-IN VALVE & BOX
208+68.6, 1002.4

10-IN SOLID SLEEVE
209+91.6, 999.4

10X8-IN TEE
209+94.8, 999.3

PROPOSED 10-IN
WM CROSSING
SEE SHEET W-2

PROJECTED EXISTING
TOP OF WATER MAIN
ELEVATION (TYP.);
VERIFY DEPTH AS REQUIRED

1030 1025 1020 1015 1010 1005 1000 995 990

T.O.P. 1017.52 | T.O.P. 1017.28 | T.O.P. 1016.73 | T.O.P. 1016.17 | T.O.P. 1015.46 | T.O.P. 1014.41 | T.O.P. 1013.19 | T.O.P. 1012.10 | T.O.P. 1010.70 | T.O.P. 1008.87 | T.O.P. 1007.61 | T.O.P. 1006.71 | T.O.P. 1005.52 | T.O.P. 1004.45 | T.O.P. 1003.50 | T.O.P. 1002.15 | T.O.P. 1001.27 | T.O.P. 1000.77 | T.O.P. 1000.37 | T.O.P. 999.77 | T.O.P. 999.17

205+00 206+00 207+00 208+00 209+00 210+00

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

CONTRACT NO: 9003

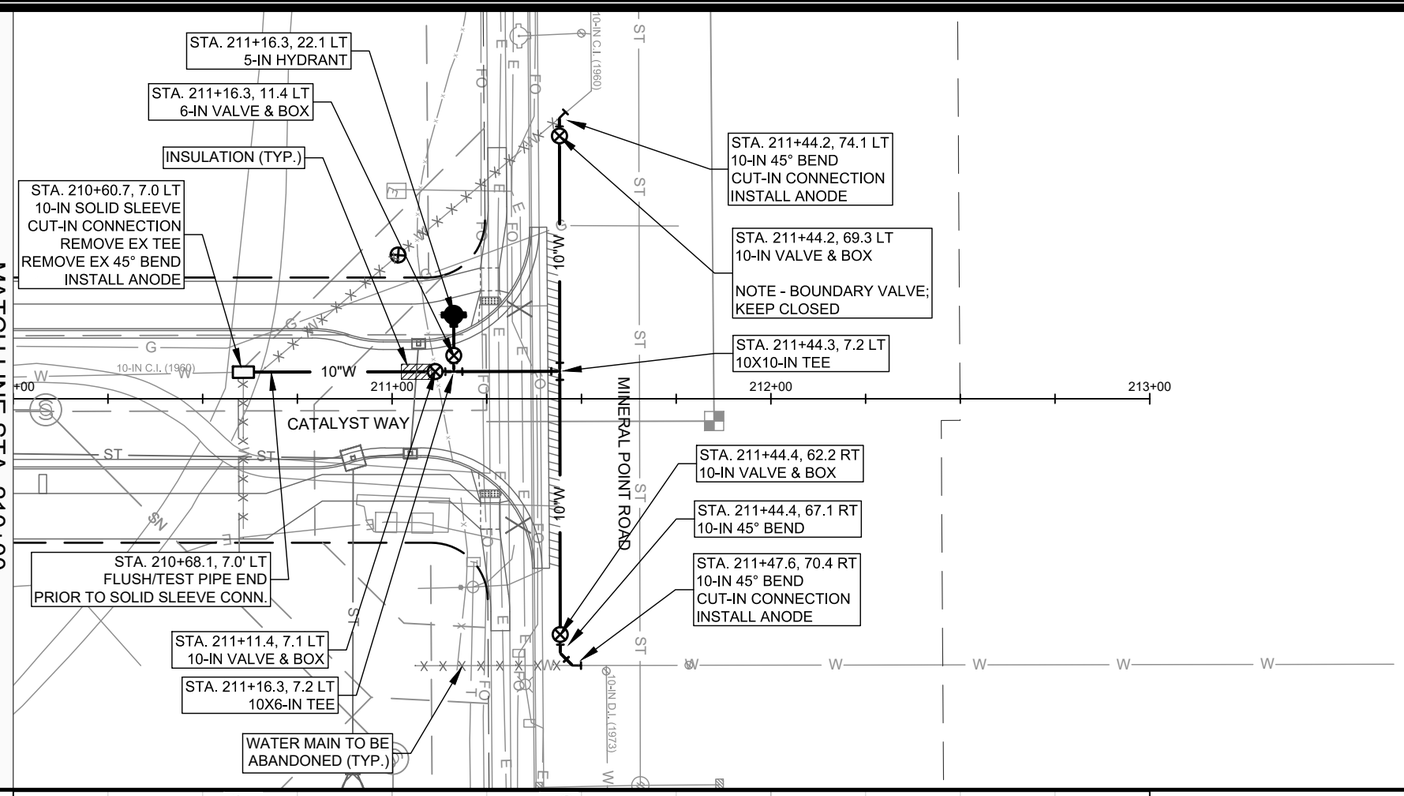
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

CATALYST WAY WATER MAIN PLAN & PROFILE

CITY OF MADISON, WISCONSIN

CONTRACT NO: 9003

13355

W-6

1" = 100'

CHARMANY DRIVE

ENDEAVOR LANE

CATALYST WAY

ELEMENT WAY

MINERAL POINT ROAD

10"W

505

441

401

5534

333

5521

517

454

431

5414

5510

BOUNDARY VALVE

BOUNDARY VALVE

BOUNDARY VALVE

SHUT AFTER TEST/FLUSH

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

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

WATER IMPACT PLAN

CITY OF MADISON, WISCONSIN

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

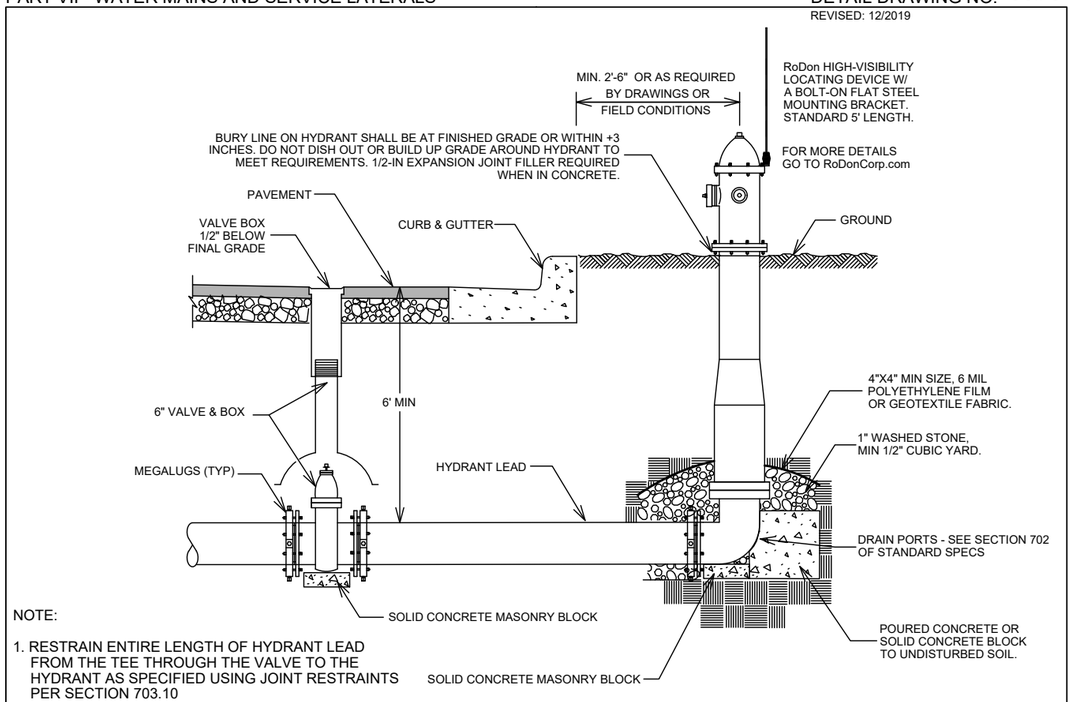
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

MEMBER ONE CALL SYSTEMS INTERNATIONAL

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.04**

REVISED: 12/2019



NOTE:

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

CITY OF MADISON WATER UTILITY	NOT TO SCALE	TYPICAL HYDRANT INSTALLATION

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

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

WATER MATERIALS & DETAILS

CITY OF MADISON, WISCONSIN

CONTRACT NO: 9003

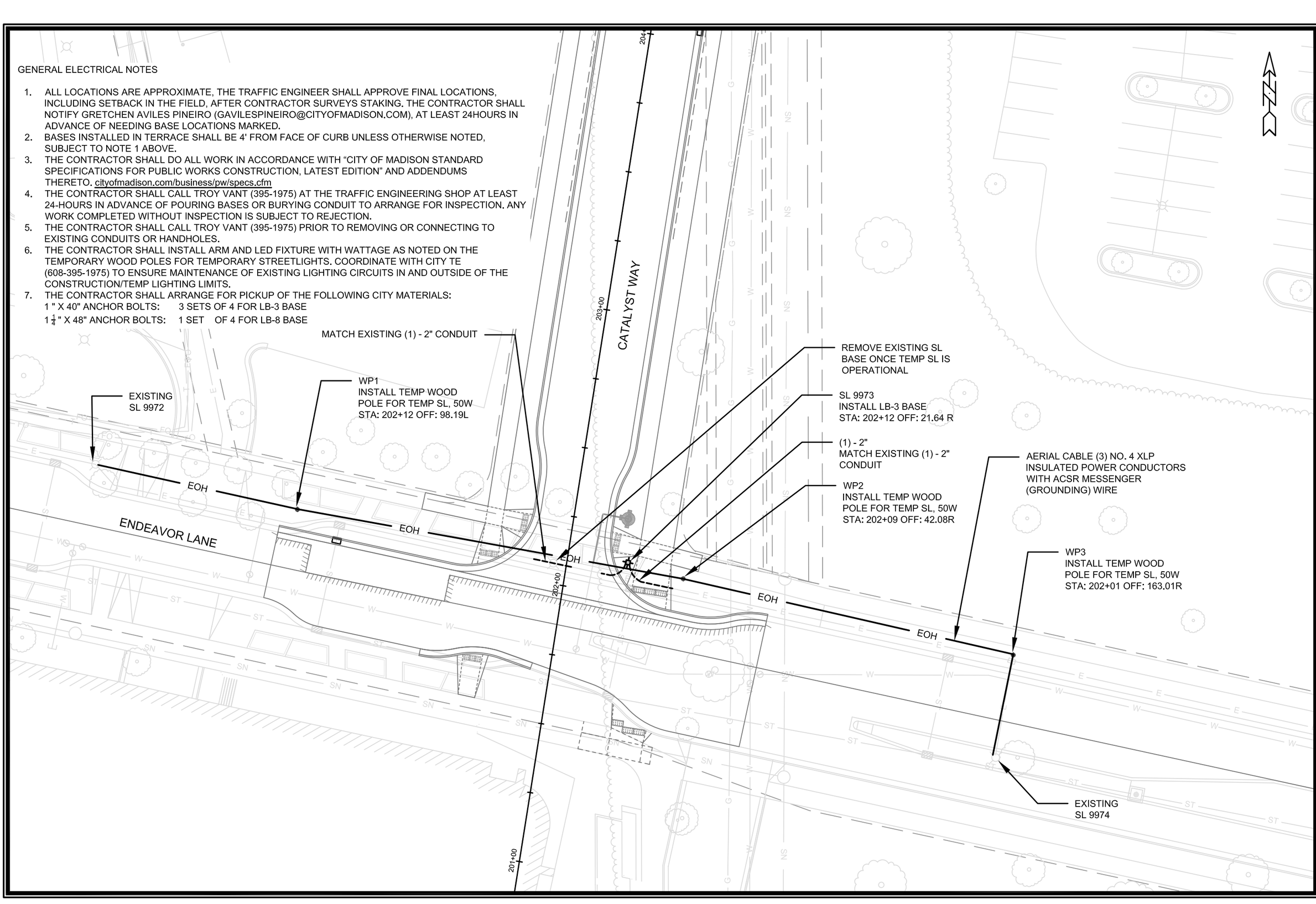
13355

W-8

\\GISSERVER\DATA\DESIGN\PROJECTS\13355\CADWATER\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 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

CONTRACT NO: 9003

ELECTRICAL PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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13355

E-1

MINERAL POINT RD

REMOVE EXISTING TS BASE
ONCE TEMP SIGNALS ARE
OPERATIONAL

MATCH EXISTING CONDUIT
FIELD VERIFY SIZE

WP4
INSTALL TEMP WOOD
POLE FOR TEMP SIGNAL
STA: 302+60 OFF: 12.07L

TS1
INSTALL LB-8 BASE
STA: 302+50 OFF: 3.99R

(1) - 3"
TO EXISTING HH

(1) - 2"
FROM EXISTING HH

WP5
INSTALL TEMP WOOD POLE
FOR TEMP SL, 150W
STA: 302+29 OFF: 53.75R

(1) - 2"

SL 6172
INSTALL LB-3 BASE
STA: 301+46 OFF: 8.47R

REMOVE EXISTING SL BASE

WP7
INSTALL TEMP WOOD
POLE FOR TEMP SL, 150W
STA: 300+90 OFF: 53.94R

SL 6170
INSTALL LB-3 BASE
STA: 300+45 OFF: 6.44R

WP6
INSTALL TEMP WOOD
POLE FOR TEMP SIGNAL
STA: 302+23 OFF: 116.00R

AERIAL CABLE (3) NO. 4
INSULATED POWER
CONDUCTORS WITH
ACSR MESSENGER
(GROUNDING) WIRE

WHITNEY WAY

EOH

(1) - 2"

REMOVE EXISTING SL BASE

MATCH EXISTING 2" SL CONDUIT
FIELD VERIFY SIZE

WP8
INSTALL TEMP WOOD
POLE FOR TEMP SL, 150W
STA: 300+07 OFF: 53.32R

WP9
INSTALL TEMP WOOD
POLE FOR TEMP SL
STA: 112+34 OFF: 90.67R

CATALYST WAY

ELEMENT WAY

303+00 302+00 301+00 300+00

211+00 210+00 209+00 208+00

107+00 108+00 109+00 110+00 111+00 112+00

MARK	REVISION	DATE	BY
Designed By: GMA	Date: 6/30/2022 4:12 PM	Scale: 1"=40'	E-2

13355

MADISON, WI

9003

CONTRACT NO: 13355

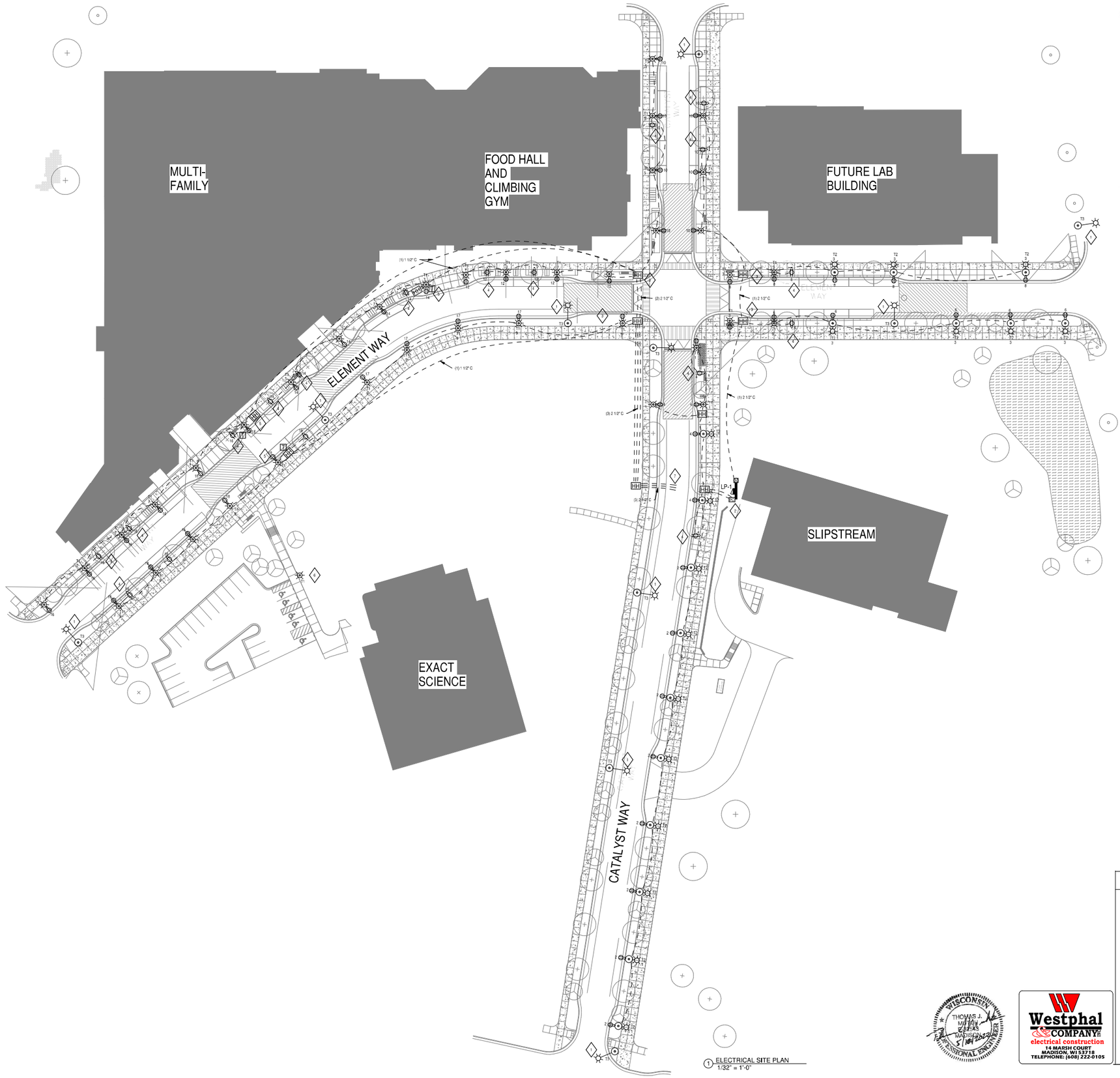
ELECTRICAL PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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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, #6G
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.# PC1212ZB012K 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'

WISCONSIN
THOMAS J. MYHRE
E-40425
MADISON
5/10/2022
PROFESSIONAL ENGINEER

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

PROJECT NO. 12748	ELEMENT DISTRICT - SITE IMPROVEMENTS
DATE: 6/30/2021	**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									

Panel: LP-1

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

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

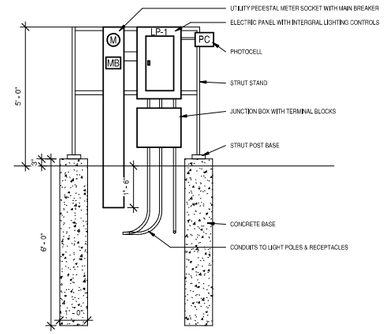
A.I.C. Rating: 65,000
Mains Type: MLO
MCB Ampacity: N/A
Min Bus Ampacity: 200 AMPS

Notes:

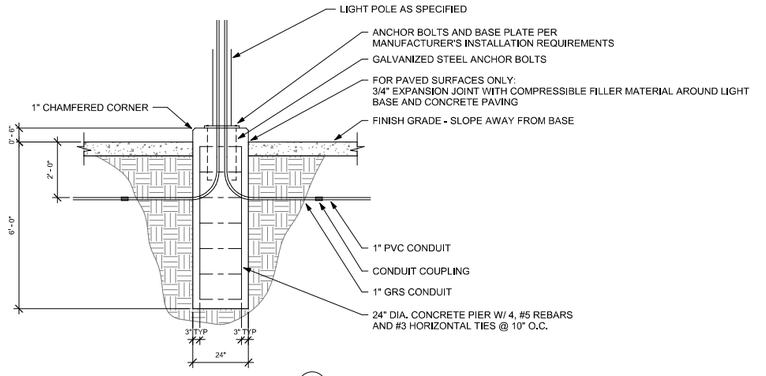
CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	SOUTH CATALYST WAY LTG	20 A	1	5 A	12 A			1	20 A	SOUTH CATALYST WAY REC...	2
3	EAST ELEMENT WAY LTG	20 A	1			3 A	11 A	1	20 A	SOUTH CATALYST WAY REC...	4
5	NORTH CATALYST WAY LTG	20 A	1	2 A	11 A			1	20 A	EAST ELEMENTS WAY RECP 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



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



2 E5/1.1 SITE LIGHT STANDARD BASE
1/2" = 1'-0"



KEY PLAN

PROJECT NORTH



0' 20' 40' 80'
SCALE: 1" = 40'

ELEMENT DISTRICT - SITE IMPROVEMENTS

510 CHARMANY DRIVE, SUITE 250
MADISON, WI 53719

.\Tryba_Logo_color.png

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PROJECT NO. 12748	ELEMENT DISTRICT - SITE IMPROVEMENTS
DATE: 6/30/2021	**E1.03**

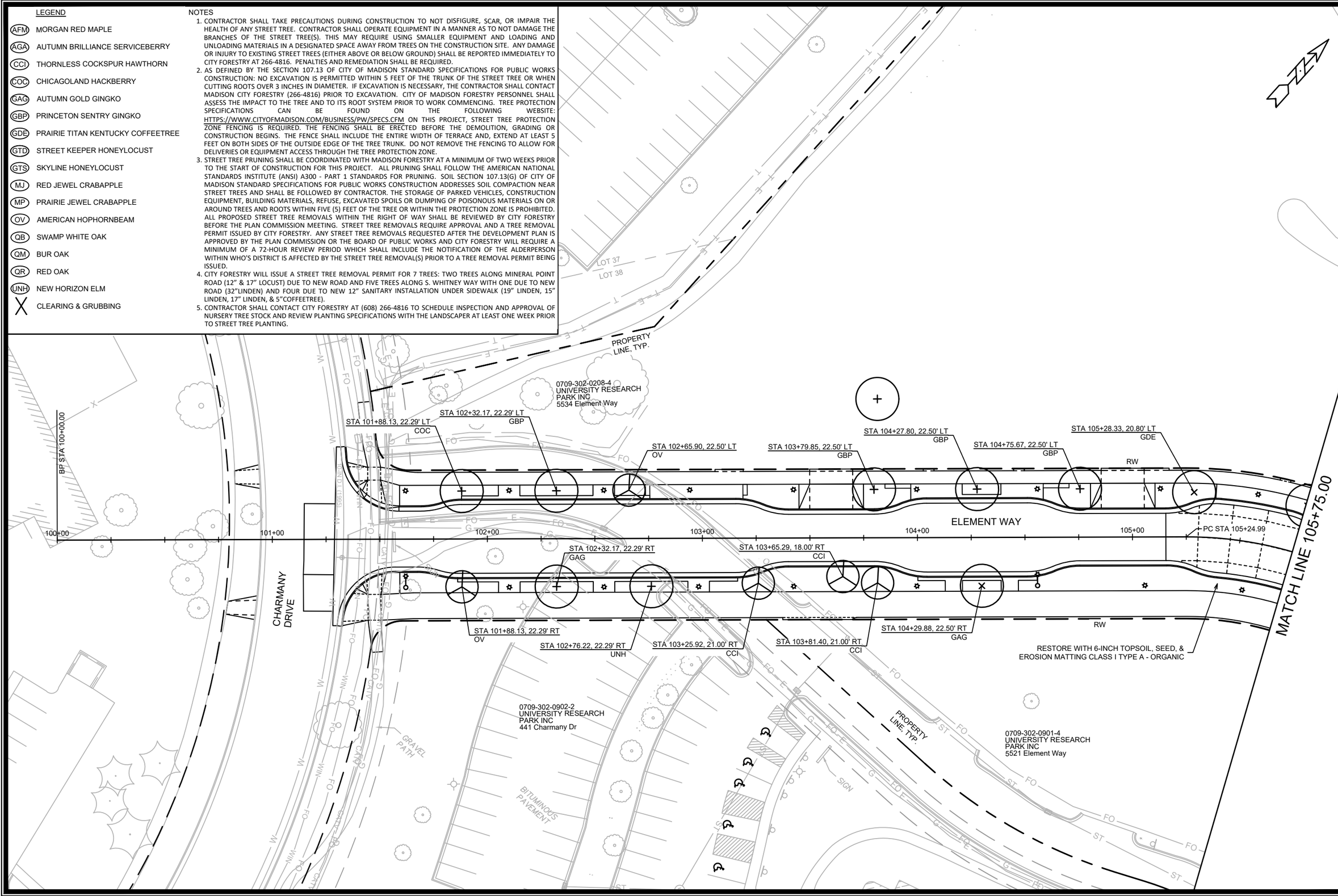
DRAWING TITLE:
ELECTRICAL SITE PLAN DETAILS

LEGEND

- (AFM) MORGAN RED MAPLE
- (AGA) AUTUMN BRILLIANCE SERVICEBERRY
- (CCI) THORNLESS COCKSPUR HAWTHORN
- (COC) CHICAGOLAND HACKBERRY
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- (UNH) NEW HORIZON ELM
- X CLEARING & GRUBBING

NOTES

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MARK	REVISION	DATE	BY
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Designed By: AJZ
Date: 6/30/2022 3:41 PM
Scale: 1" = 40'
13355
L-1

13355
MADISON, WI
CONTRACT NO: 9003

ELEMENT WAY LANDSCAPING PLAN
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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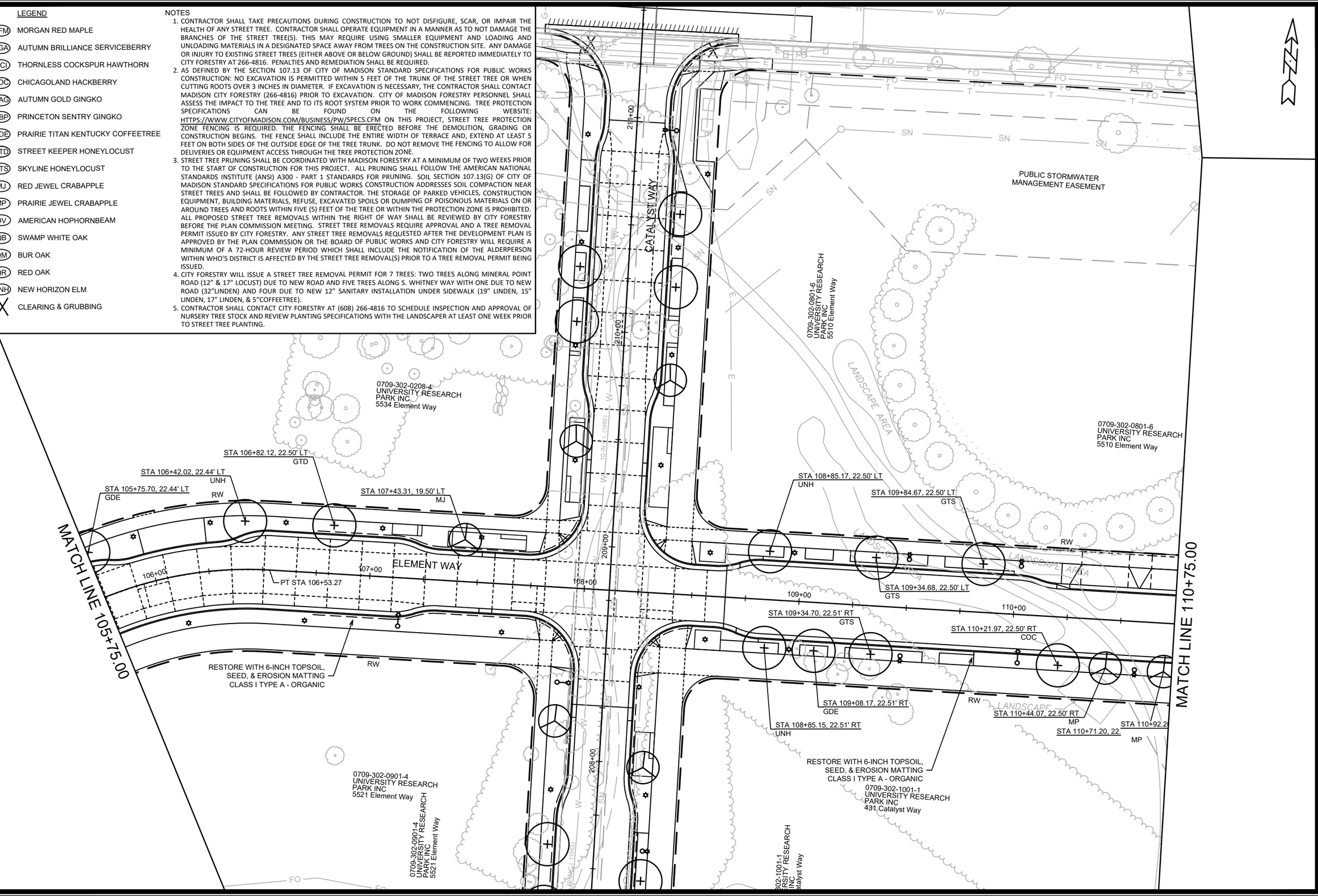
13355
L-1

LEGEND

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MARK	REVISION	Date: 6/30/2022 3:41 PM	DATE	BY
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Designed By: AJZ | Scale: 1" = 40' | L-2

13355

ELEMENT WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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13355

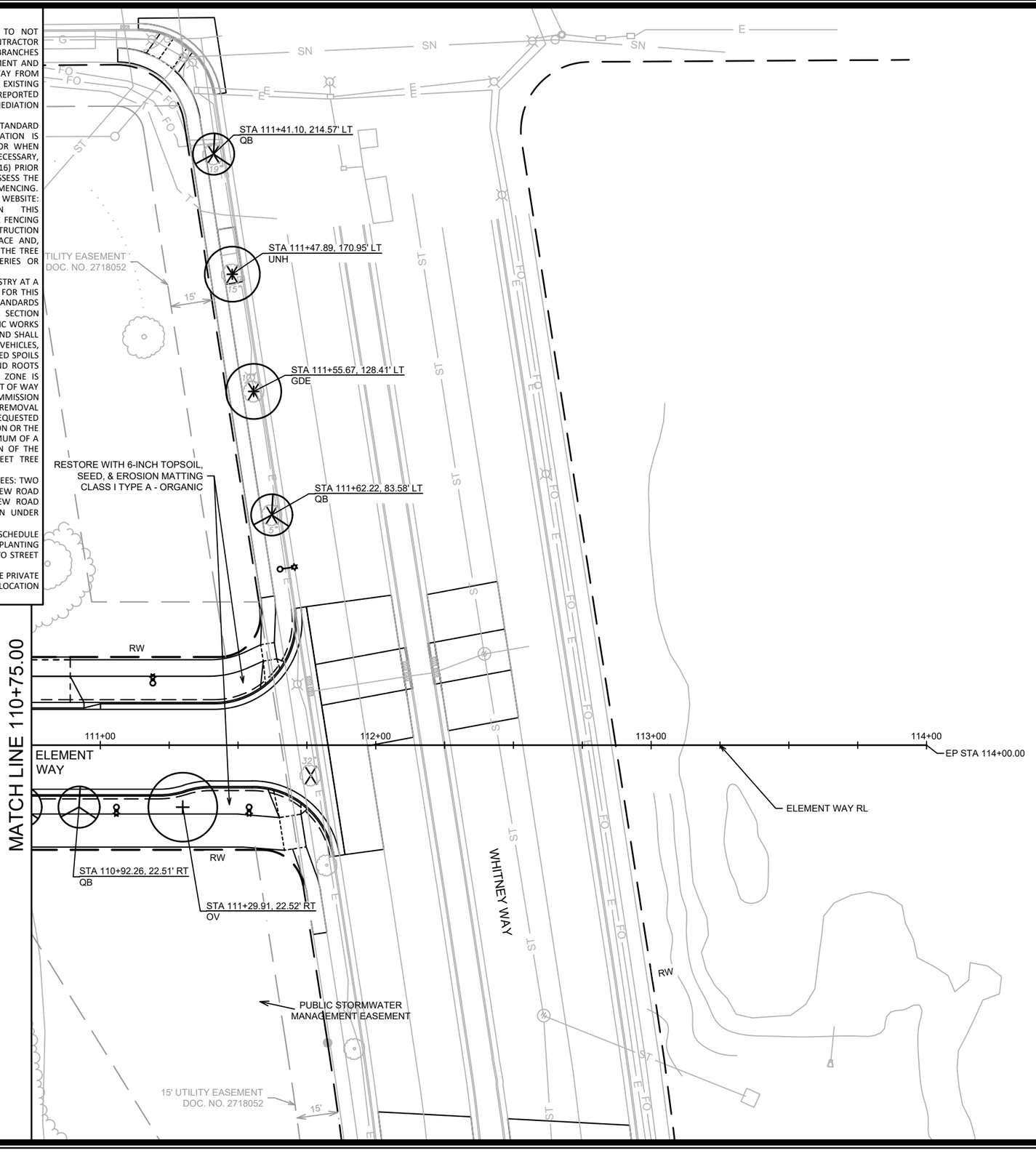
L-2

LEGEND

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6. TREE REPLACEMENTS ALONG WHITNEY WAY SHALL BE INSTALLED BY THE PRIVATE DEVELOPER PER THE DIRECTION OF CITY FORESTRY INCLUDING TREE LOCATION AND SPECIES TYPE.



MARK	REVISION	DATE	BY
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Designed By: AJZ
Date: 6/30/2022 3:41 PM
Scale: 1" = 40'
13355
L-3

13355

ELEMENT WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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

13355

L-3

LEGEND

AFM	MORGAN RED MAPLE
AGA	AUTUMN BRILLIANCE SERVICEBERRY
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MATCH LINE 206+50.00

0709-302-0902-2
UNIVERSITY RESEARCH PARK INC
441 Charmany Dr

0709-302-1001-1
UNIVERSITY RESEARCH PARK INC
431 Catalyst Way

0709-302-1002-9
UNIVERSITY RESEARCH PARK INC
454 Catalyst Way

CATALYST WAY

ENDEAVOR LANE

HICKORY

201+00 202+00 203+00 204+00 205+00 206+00

STA 202+58.02, 21.75' LT MP
STA 202+78.02, 21.75' LT AFM
STA 203+18.02, 21.75' LT AFM
STA 203+58.02, 21.75' LT QM
STA 203+78.02, 21.75' LT AGA
STA 204+18.02, 21.75' LT MP
STA 204+38.02, 21.75' LT MP
RESTORE WITH 6-INCH TOPSOIL, SEED, & EROSION MAT
STA 204+78.02, 21.75' LT AGA
STA 204+98.02, 21.75' LT AFM
STA 205+38.02, 21.75' LT AFM
STA 205+68.00, 21.75' LT MP
STA 205+91.00, 21.75' LT QR
STA 206+27.10, 21.75' LT COC

STA 202+45.05, 21.62' RT MP
STA 202+65.15, 21.74' RT AFM
STA 203+18.02, 22.24' RT AFM
STA 203+38.02, 21.74' RT AGA
STA 203+67.45, 21.74' RT QR
STA 203+93.02, 21.74' RT QM
STA 204+99.15, 21.74' RT AFM
STA 205+19.15, 21.74' RT AGA
STA 205+68.00, 21.74' RT MP
STA 206+26.49, 21.75' RT COC

20' PUBLIC WATER MAIN EASEMENT DOC 5529986
20' PUBLIC SANITARY SEWER EASEMENT DOC 2718067
20' PUBLIC GAS MAIN EASEMENT DOC 1409797
10' GAS & ELECTRIC EASEMENT DOC. NO. 3994727
PERMANENT LIMITED EASEMENT FOR PUBLIC SIDEWALK PURPOSES DOC. NO. 5518608
20' PUBLIC WATER MAIN EASEMENT DOC 5529586

MARK	REVISION	DATE	BY
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Designed By: AJZ | Date: 6/30/2022 3:41 PM | Scale: 1" = 40' | L-4

13355

MADISON, WI

CONTRACT NO: 9003

CATALYST WAY LANDSCAPING PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

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

13355

L-4

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

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MATCH LINE 206+50.00

CATALYST WAY

ELEMENT WAY

MINERAL POINT ROAD

PT STA 106+53.27

PC STA 206+84.30

PT STA 207+31.58

STA 206+80.05, 22.50' RT
CDC

STA 206+81.11, 21.71' LT
QR

STA 207+16.67, 22.50' RT
QR

STA 207+30.94, 21.75' LT
QR

STA 207+45.56, 22.50' RT
QR

STA 207+60.13, 21.75' LT
QR

STA 207+98.33, 20.50' RT
MJ

STA 208+17.58, 21.75' LT
MJ

STA 209+48.07, 19.50' LT
MJ

STA 209+78.93, 22.50' RT
MP

STA 210+03.69, 22.50' LT
GTD

STA 210+22.30, 22.50' RT
QM

STA 210+29.27, 22.50' LT
GTD

STA 210+56.27, 22.50' RT
QM

RESTORE WITH 6-INCH TOPSOIL, SEED, & EROSION MAT

RW

0709-302-0901-4
UNIVERSITY RESEARCH PARK INC
5521 Element Way

0709-302-0208-4
UNIVERSITY RESEARCH PARK INC
5534 Element Way

0709-302-1001-1
UNIVERSITY RESEARCH PARK INC
431 Catalyst Way

0709-302-0801-6
UNIVERSITY RESEARCH PARK INC
5510 Element Way

15' GAS & ELECTRIC EASEMENT DOC NO. 4246395

20' PUBLIC WATER MAIN EASEMENT DOC 3461981

20' PUBLIC WYFE EASEMENT DOC 3461981

8" & 12" HICKORY

10-IN S.L. (1960)

10-IN D.I. (1973)

LANDSCAPE AREA

107+00 108+00 109+00 209+00 210+00 211+00 212+00

MARK	REVISION	DATE	BY
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Designed By: AJZ
Date: 6/30/2022 3:42 PM
Scale: 1" = 40'

13355

CATALYST WAY LANDSCAPING PLAN
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
MADISON, WI
CONTRACT NO: 9003

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

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

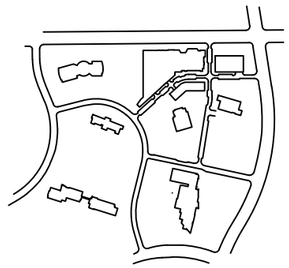
- BIKE RACKS (4 / L5.01)
- B CYCLE STATION - BY OTHERS
- STEEL PLANTER WALL (1 / L5.05) (1 / L5.06)
- STONE SEATWALL (1 / L5.08)
- STONE SEATWALL WITH BENCH (1 / L5.07)
- TREE GRATE (1 / L5.03) (1 / L5.04)

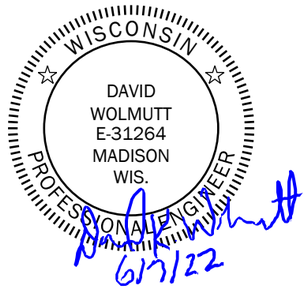
GENERAL NOTES

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.

SMITHGROUP
44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN





LEGEND AND NOTES
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

-
DRAWING SCALE

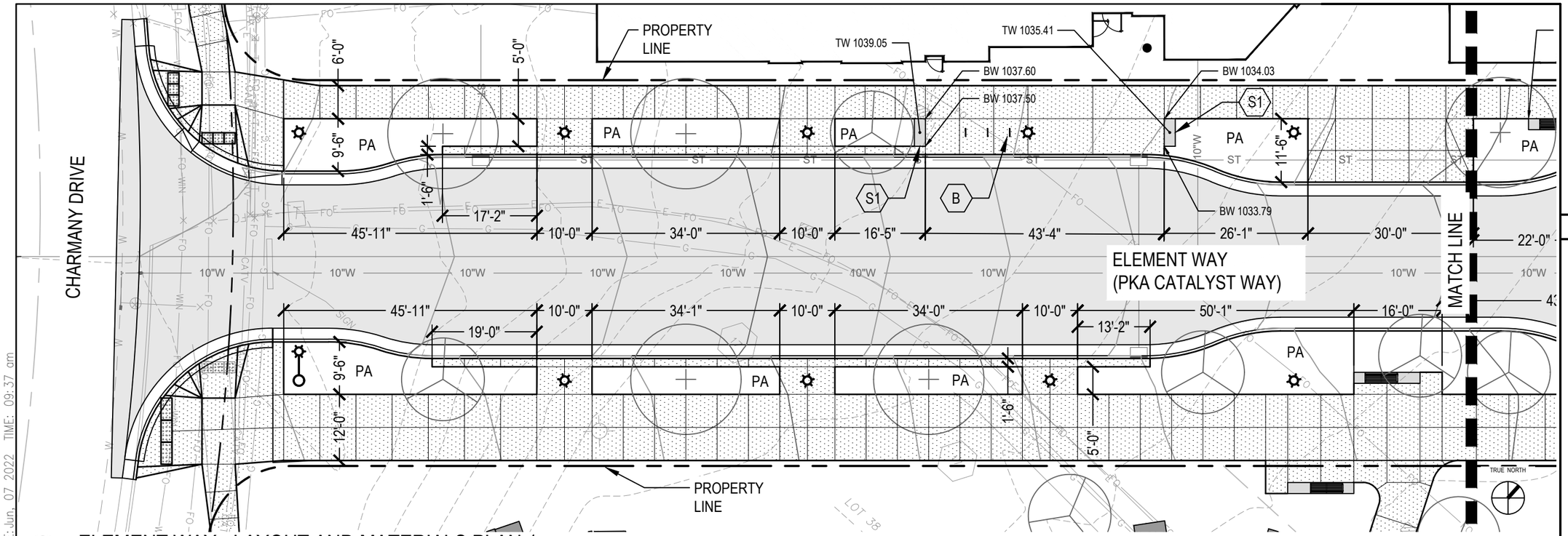
06/07/2022

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PROJECT NAME

12748
PROJECT NUMBER

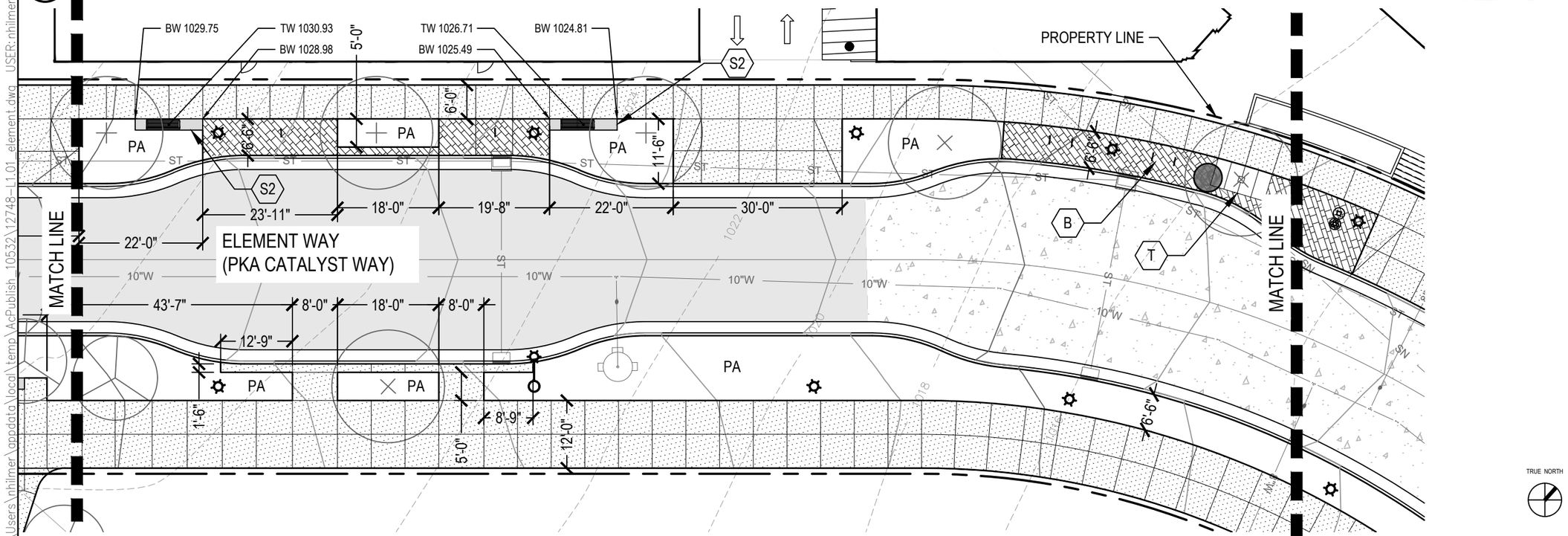
L2.00
DRAWING NUMBER

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1 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 1

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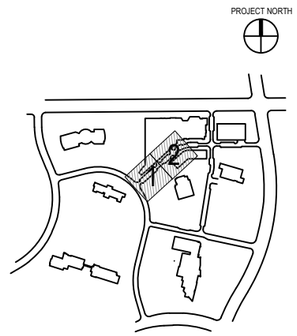


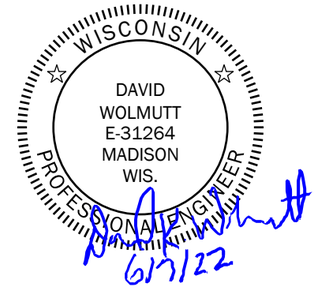
2 ELEMENT WAY - WEST LAYOUT AND MATERIALS PLAN 2

SCALE: 1" = 20'-0"

SMITHGROUP
44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

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

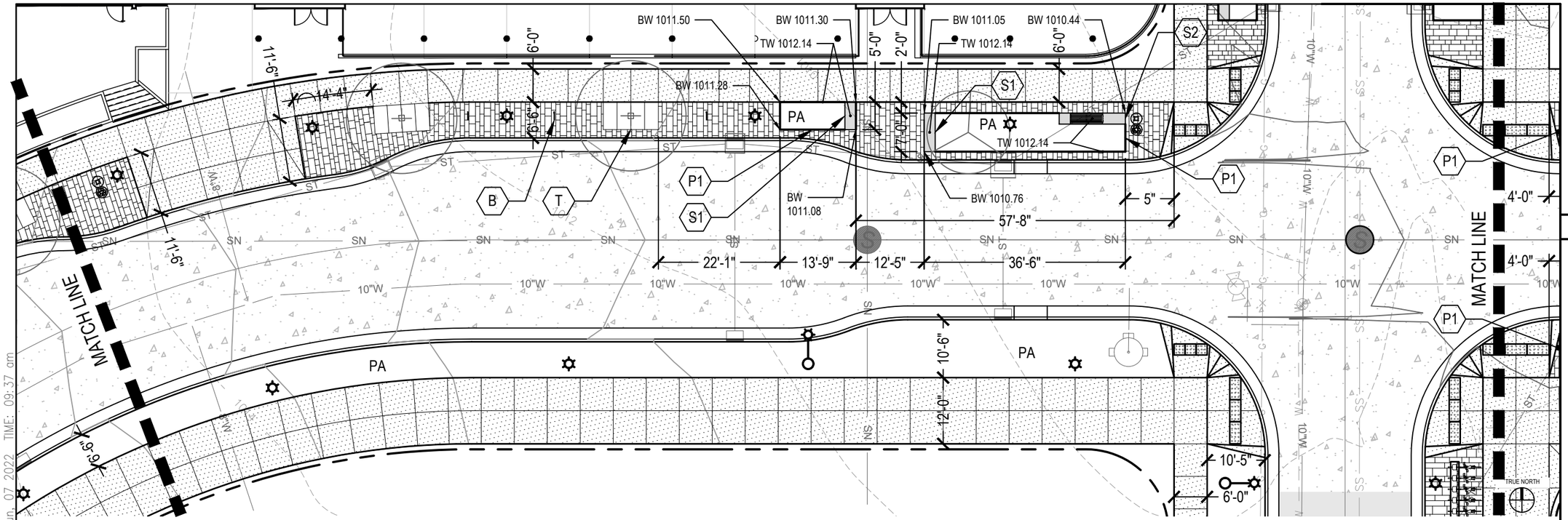
06/07/2022

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PROJECT NAME

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PROJECT NUMBER

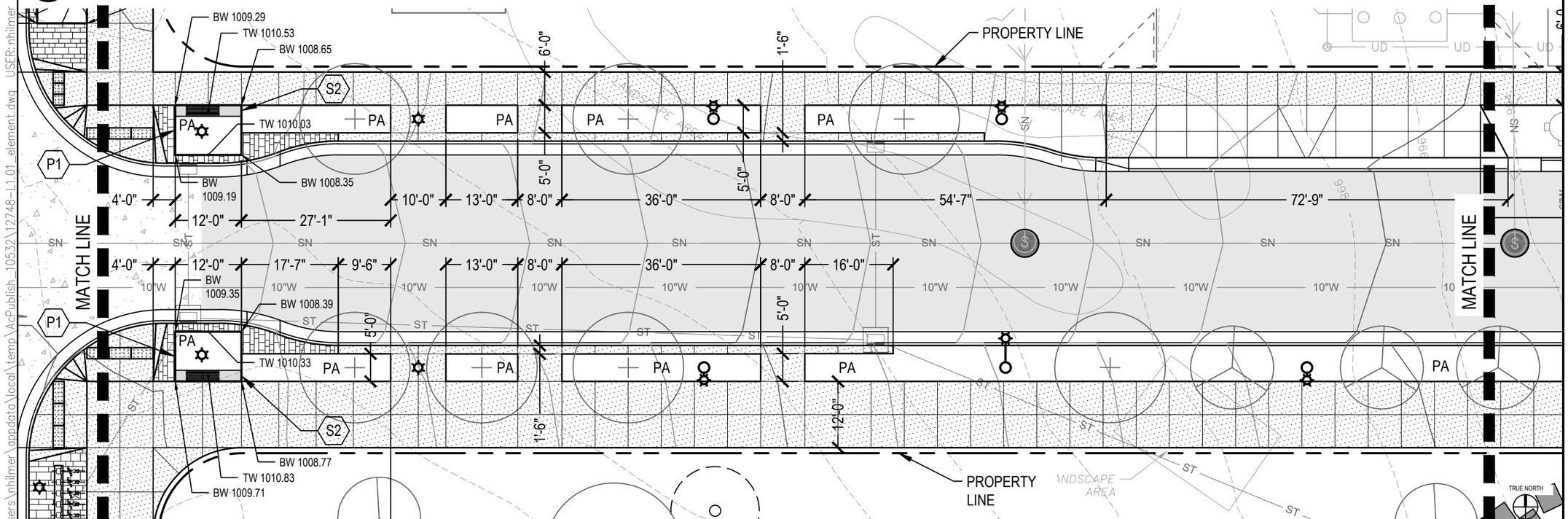
L2.01
DRAWING NUMBER

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1 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 3

SCALE: 1" = 20'-0"

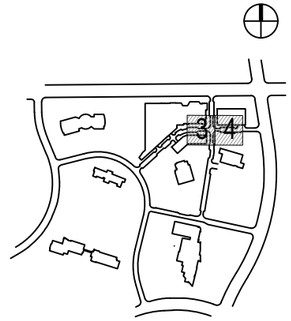


2 ELEMENT WAY - LAYOUT AND MATERIALS PLAN 4

SCALE: 1" = 20'-0"

SMITHGROUP
44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

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

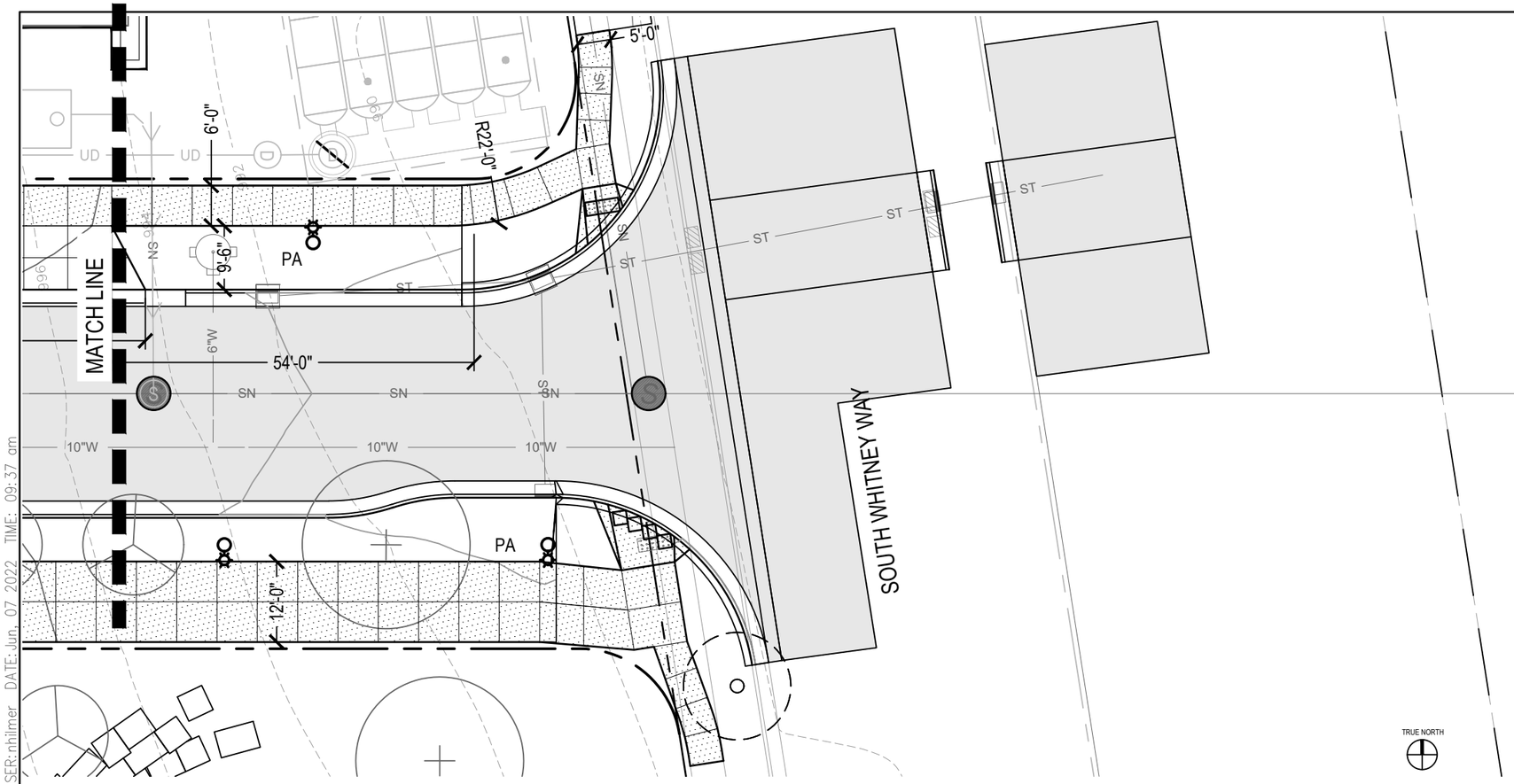
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URP - ELEMENT COLLECTIVE
PROJECT NAME

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PROJECT NUMBER

L2.02
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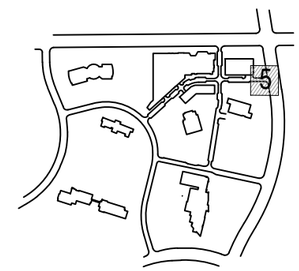
1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 5

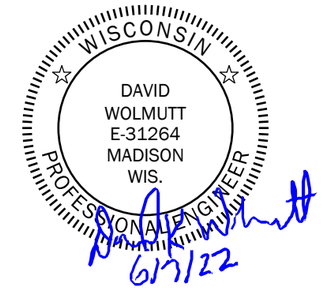
SCALE: 1" = 20'-0"

SMITHGROUP

44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

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

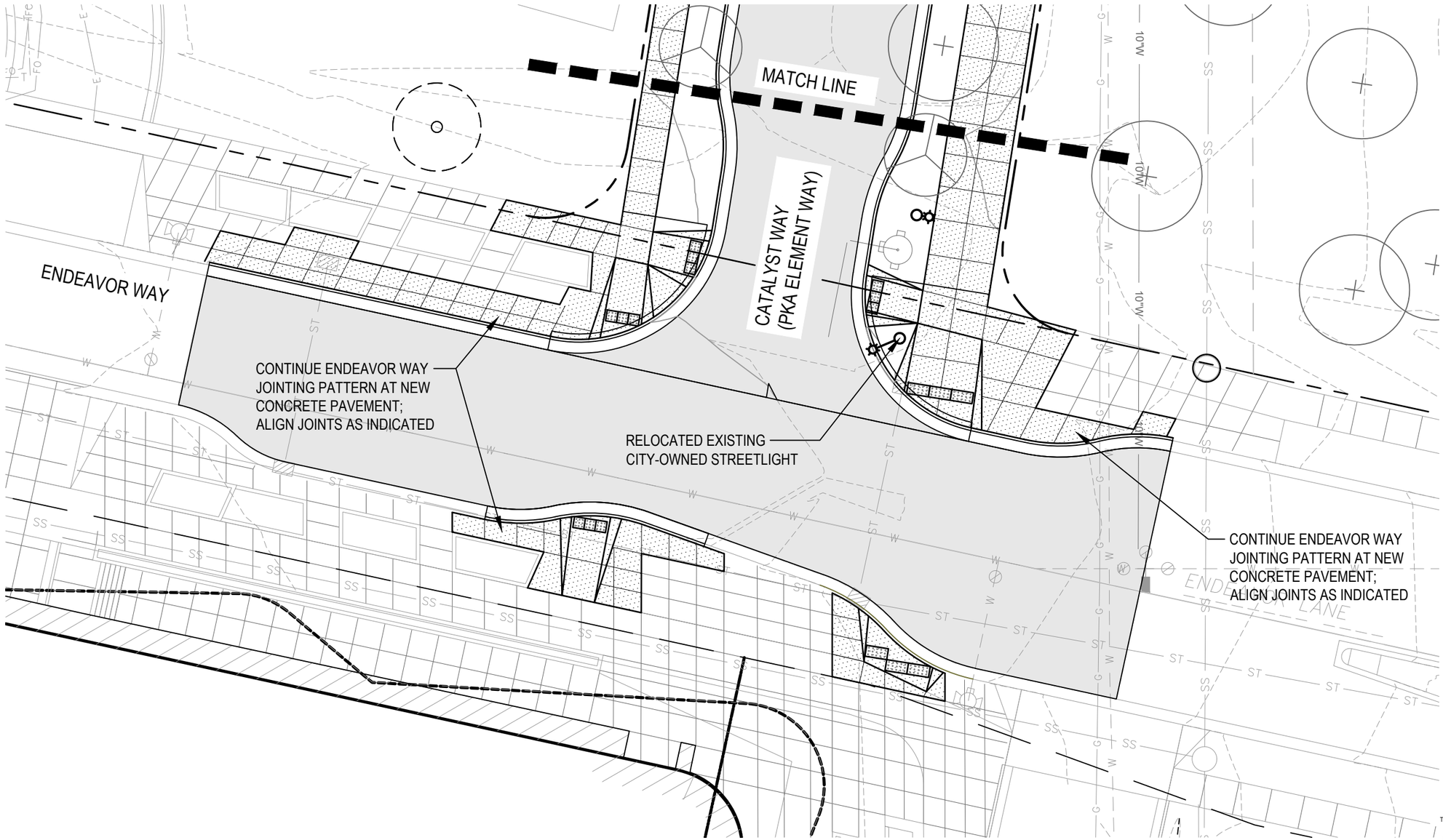
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PROJECT NAME

12748
PROJECT NUMBER

L2.03
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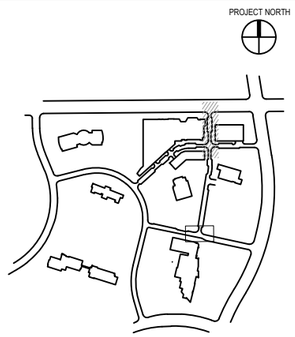


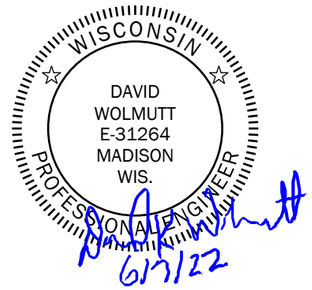
1 CATALYST WAY AT ENDEAVOR

SCALE: 1" = 20'-0"

SMITHGROUP
44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

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

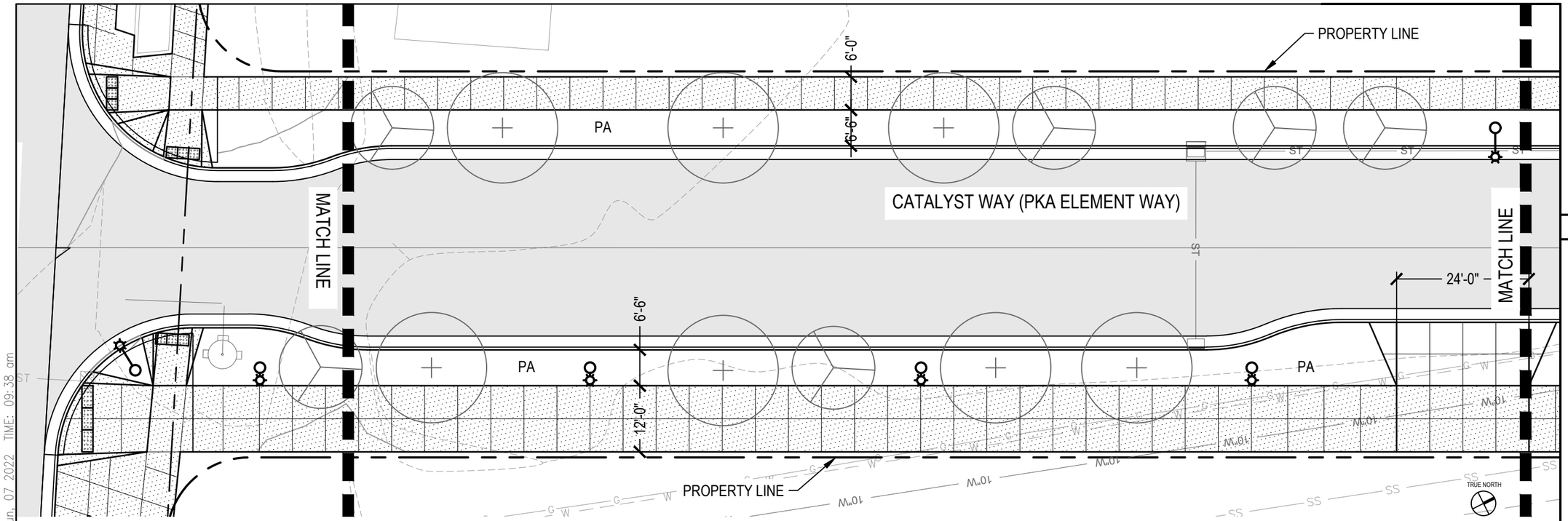
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URP - ELEMENT COLLECTIVE
PROJECT NAME

12748
PROJECT NUMBER

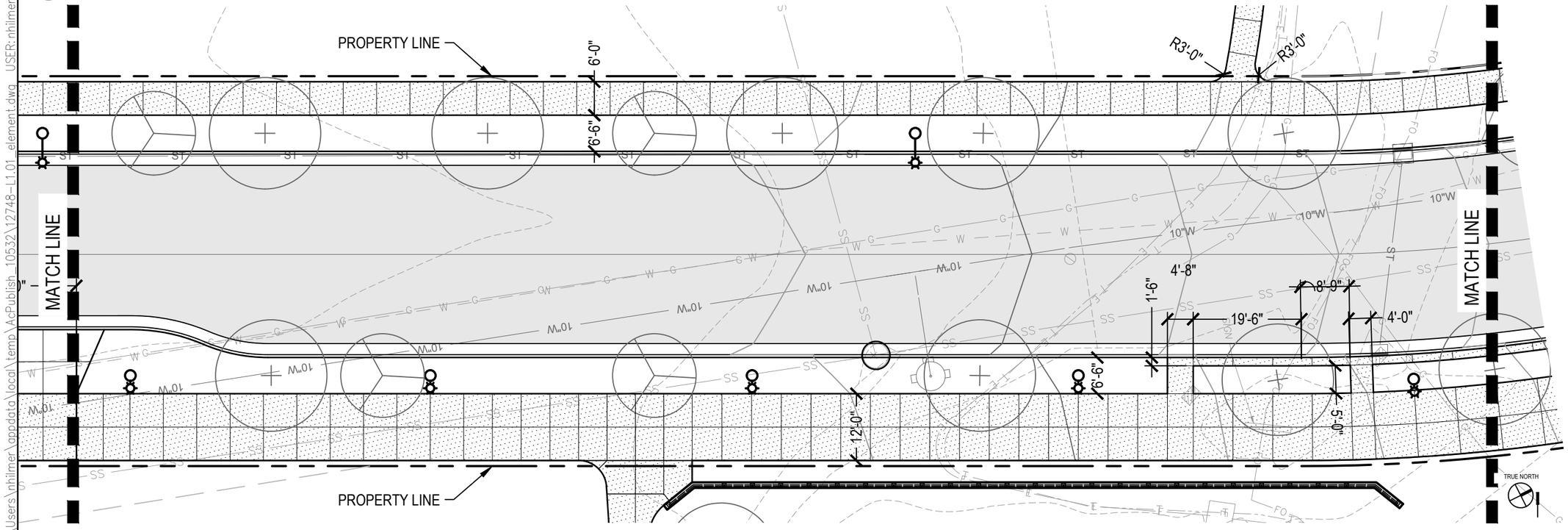
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1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 1

SCALE: 1" = 20'-0"

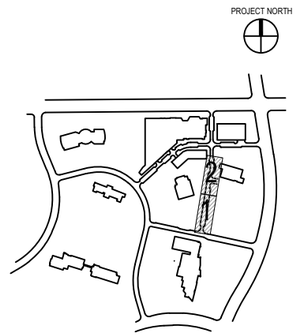


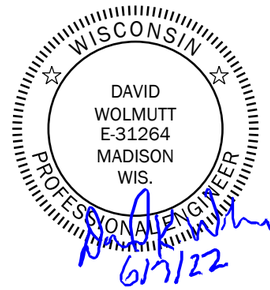
2 CATALYST WAY - LAYOUT AND MATERIALS PLAN 2

SCALE: 1" = 20'-0"

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KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

IFC
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-
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0' 10' 20'

1" = 20'
DRAWING SCALE

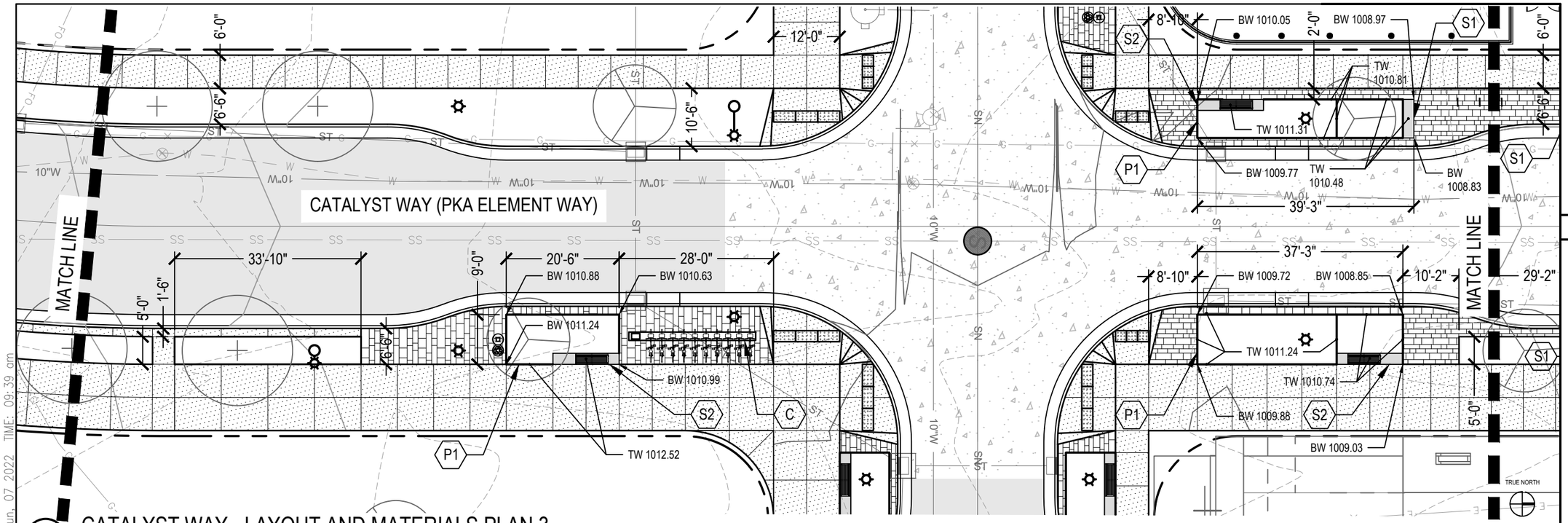
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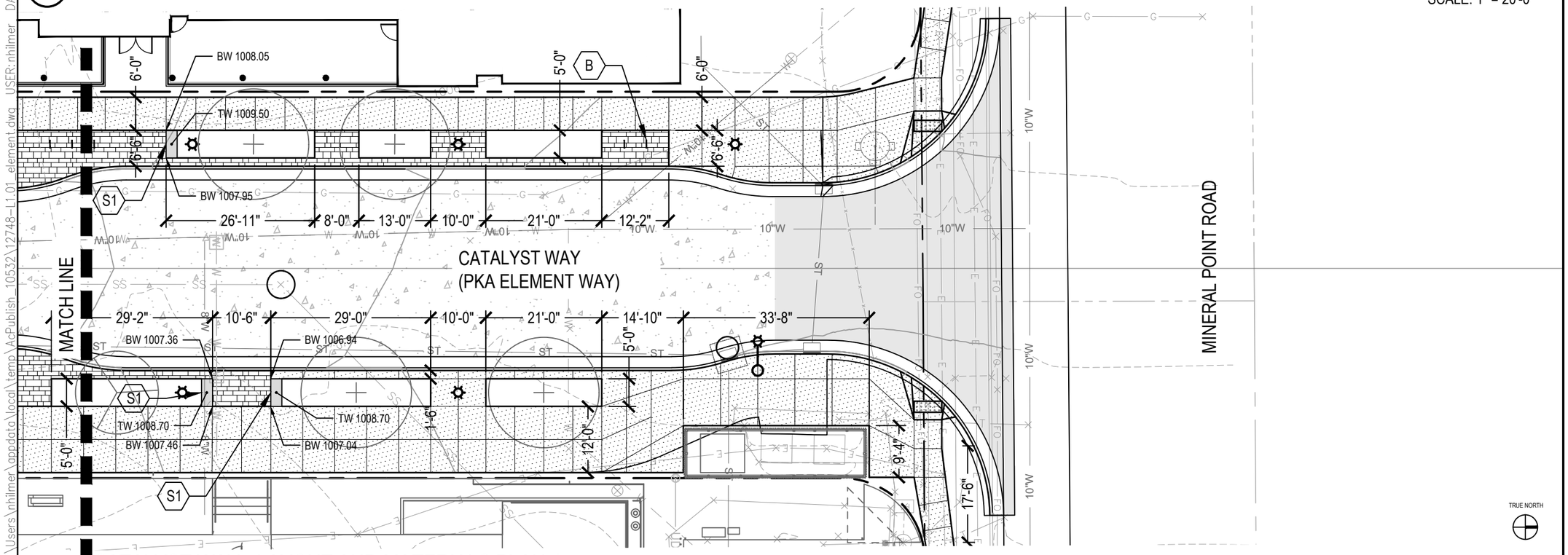
L2.05
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1 CATALYST WAY - LAYOUT AND MATERIALS PLAN 3

SCALE: 1" = 20'-0"

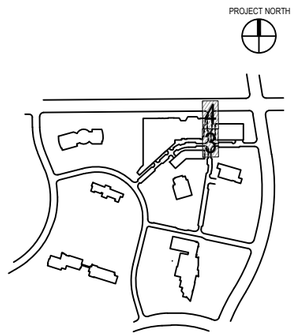


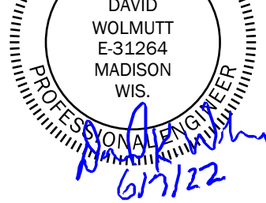
4 CATALYST WAY - LAYOUT AND MATERIALS PLAN 4

SCALE: 1" = 20'-0"

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KEY PLAN





STREETSCAPE LAYOUT AND MATERIALS PLAN
DRAWING TITLE

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ISSUED WITH

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DRAWING REFERENCE

1" = 20'
DRAWING SCALE

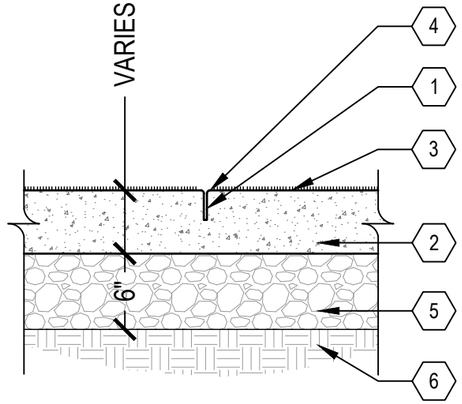
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L2.06
DRAWING NUMBER

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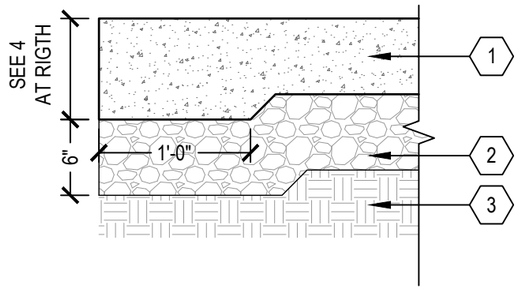


1. 1/8" W TOOLED CONTROL JOINT - SEE NOTE 1
2. CONCRETE PAVEMENT
   5" THICKNESS FOR SIDEWALKS AND PATHWAYS
   7" THICKNESS FOR APRONS AND DRIVEWAYS
3. MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL - SEE NOTE 2
4. 1/4" RADIUS ALL JOINT AND SLAB EDGES
5. DENSE GRADED BASE
6. COMPACTED SUBGRADE

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

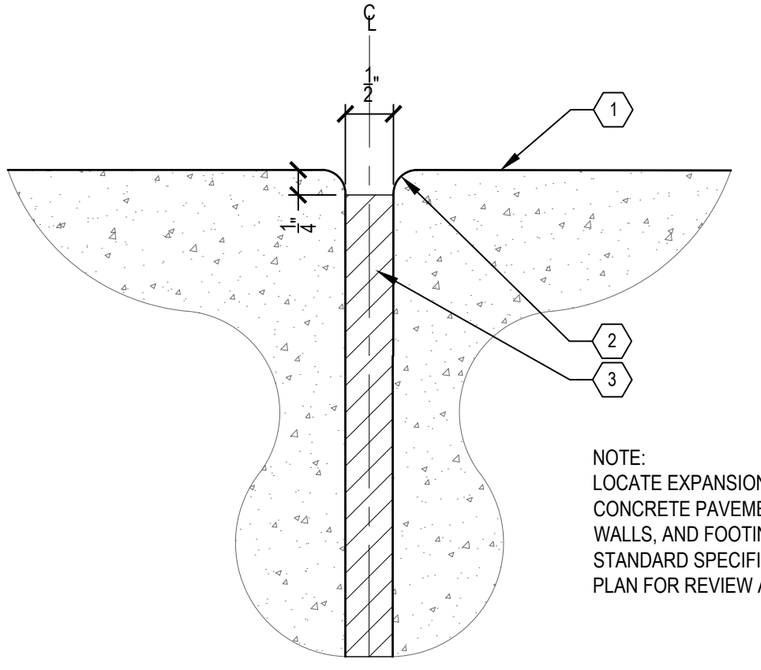
SCALE: 1" = 1'-0"



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"

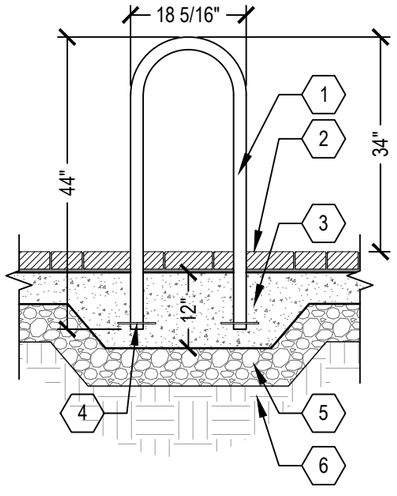


1. PAVEMENT SURFACE
2. ¼" RADIUS
3. PREFORMED EXPANSION JOINT MATERIAL

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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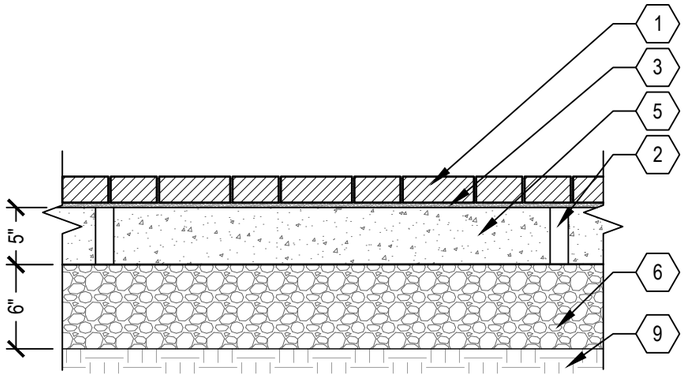
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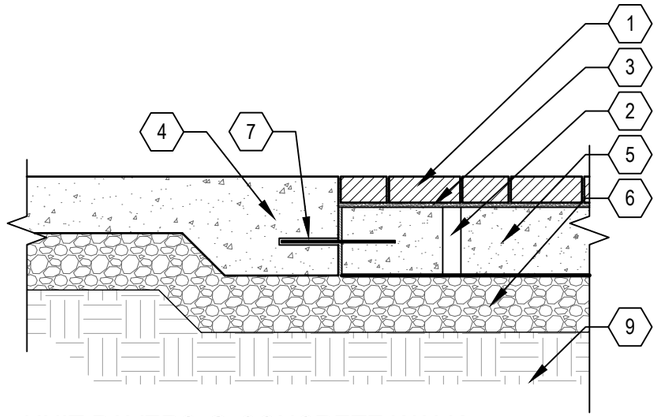
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PROJECT NUMBER

L5.01
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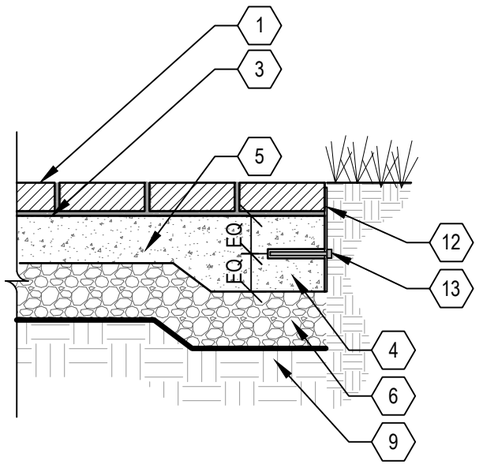
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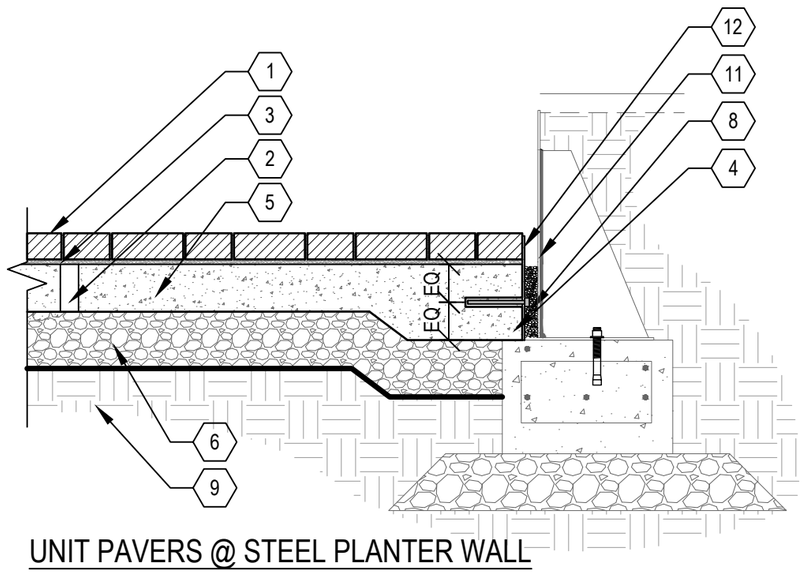
UNIT PAVERS TYPICAL SECTION



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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DRAWING SCALE

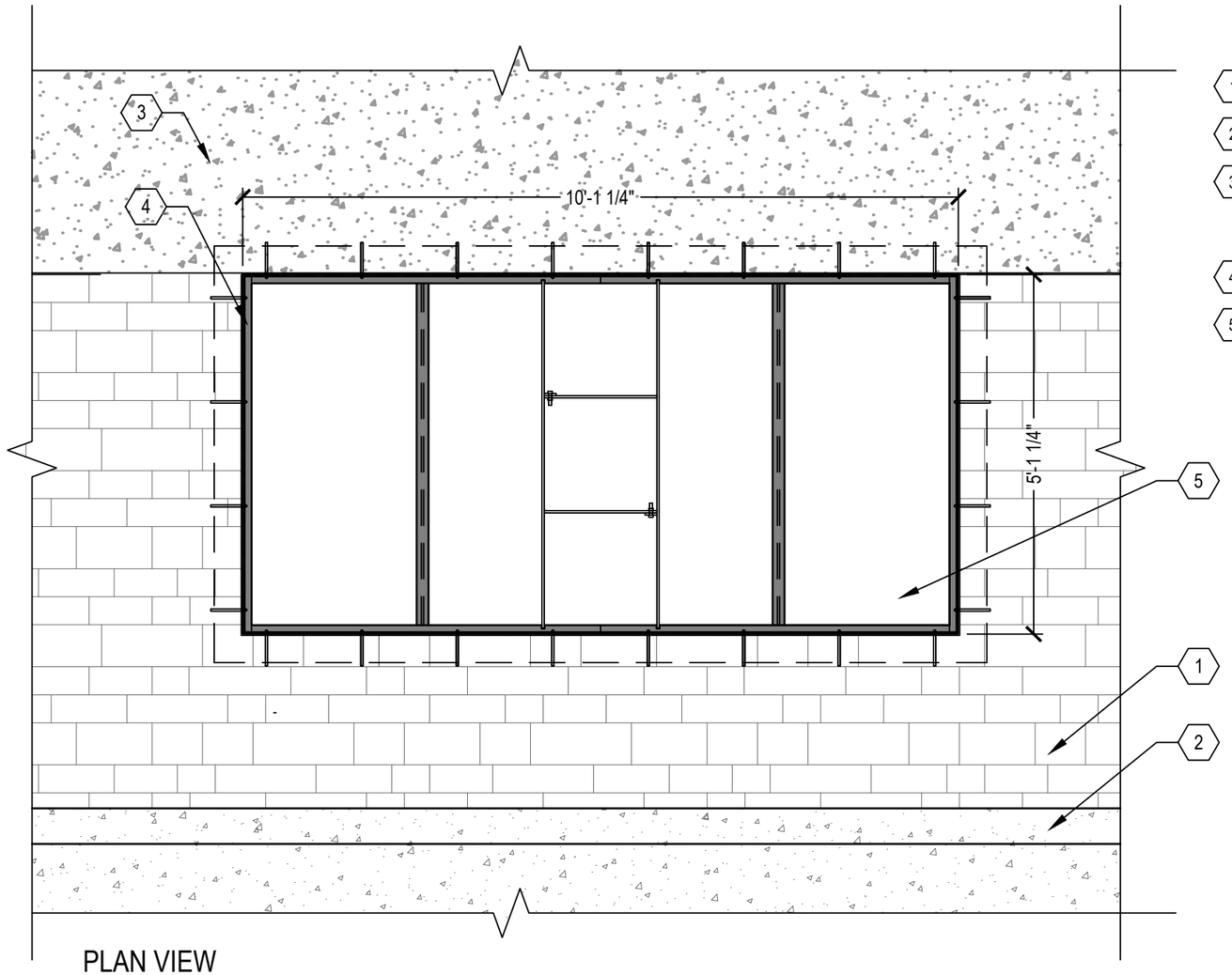
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PROJECT NAME

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L5.02
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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

PLAN VIEW

1 TREE GRATE FRAME

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

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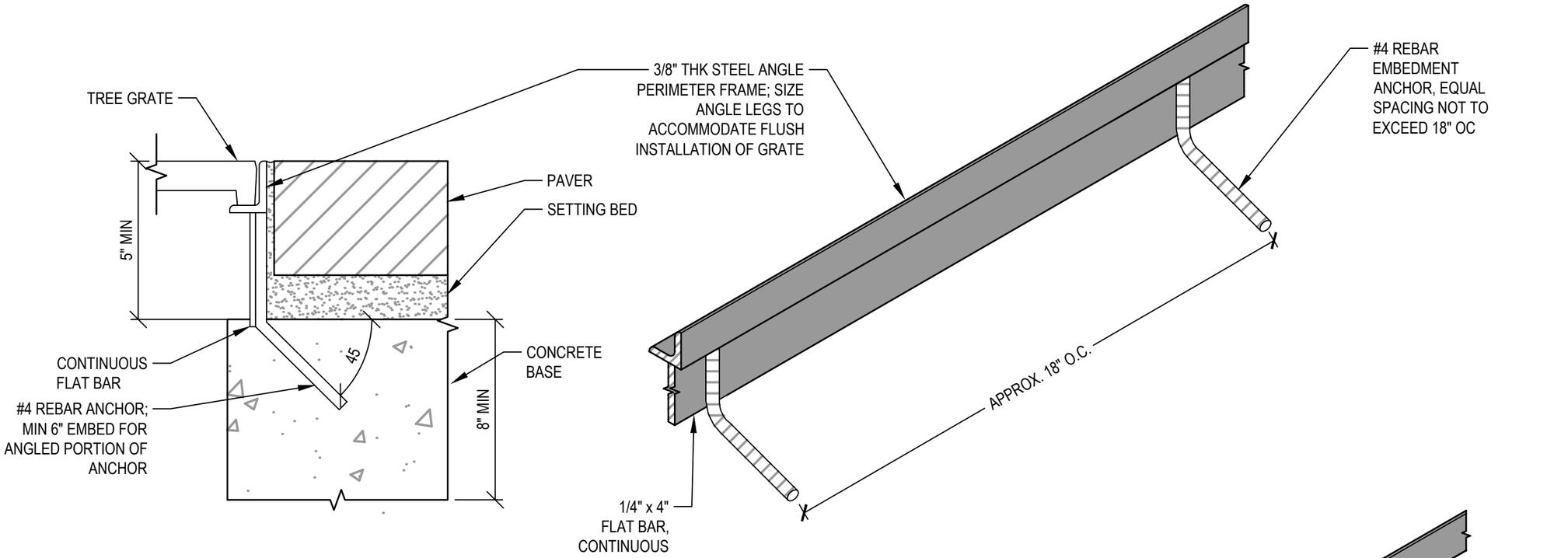
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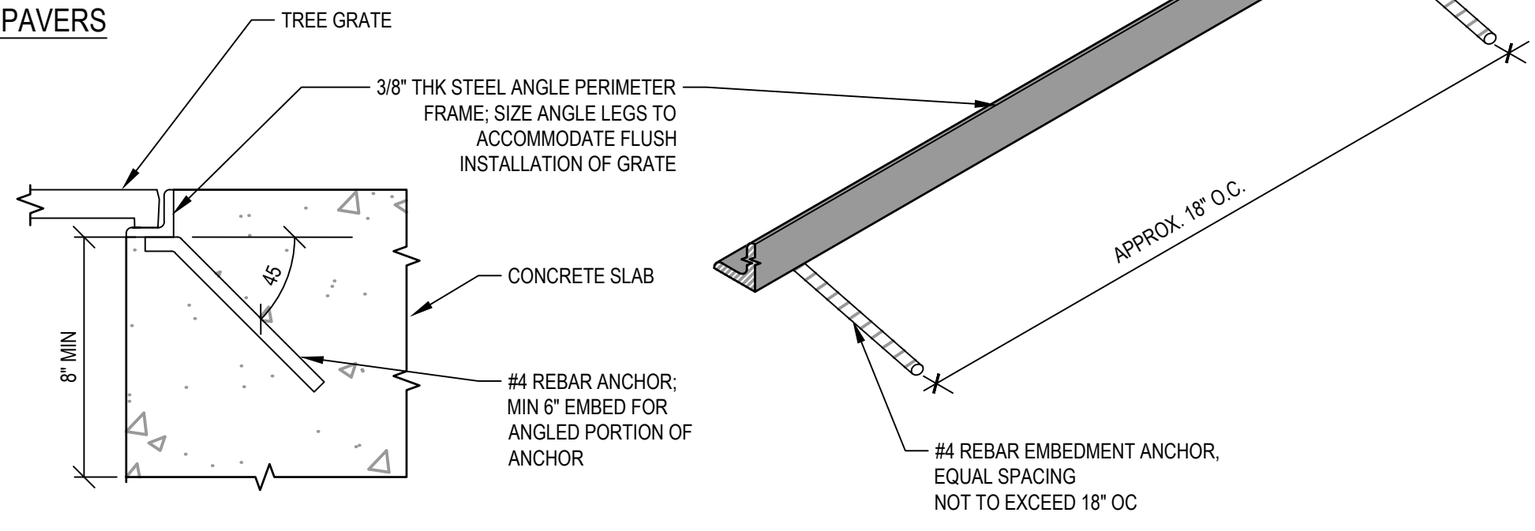
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TREE GRATE AT PAVERS



NOTE:
HOT DIP GALVANIZE FRAMES AFTER FABRICATION

TREE GRATE AT CONCRETE PAVEMENT

1 TREE GRATE FRAME

SCALE: NTS

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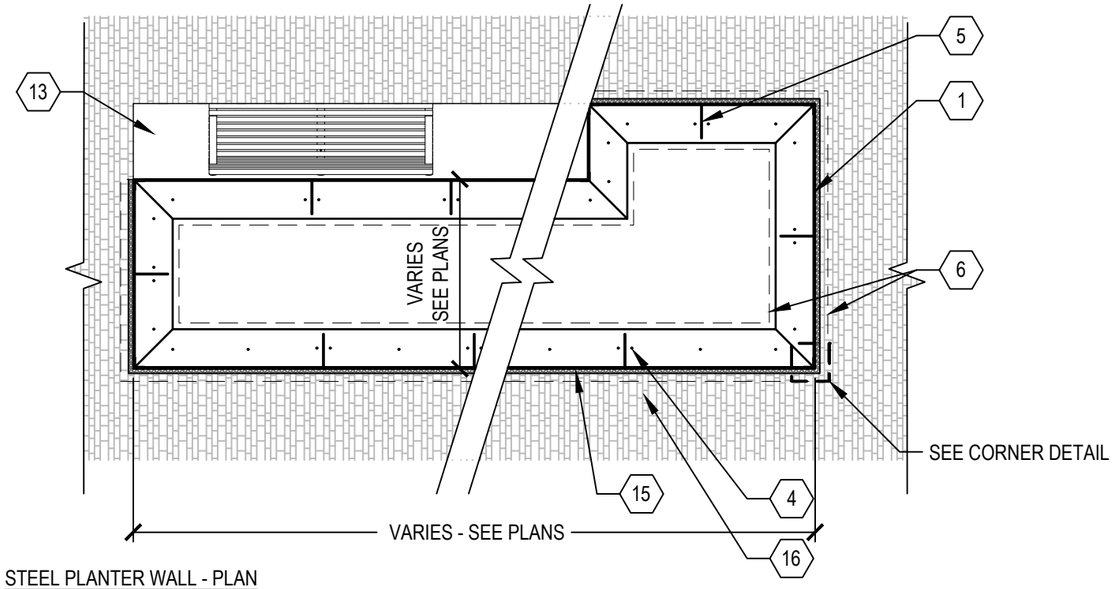
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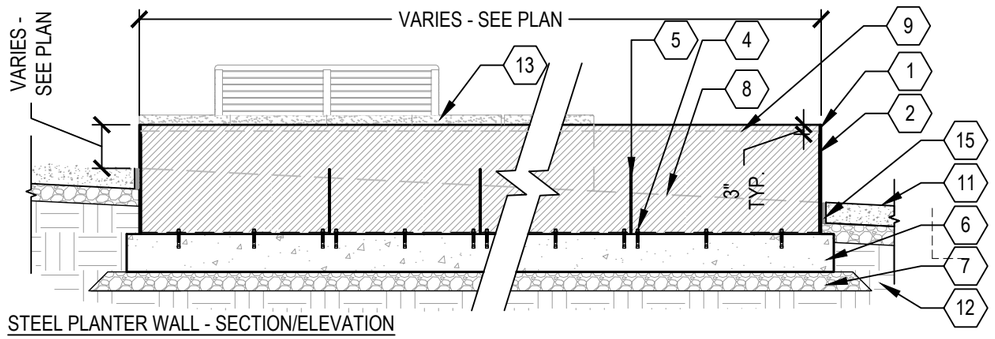
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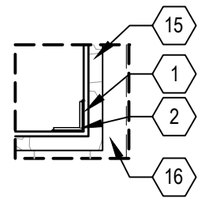
STEEL PLANTER WALL - PLAN



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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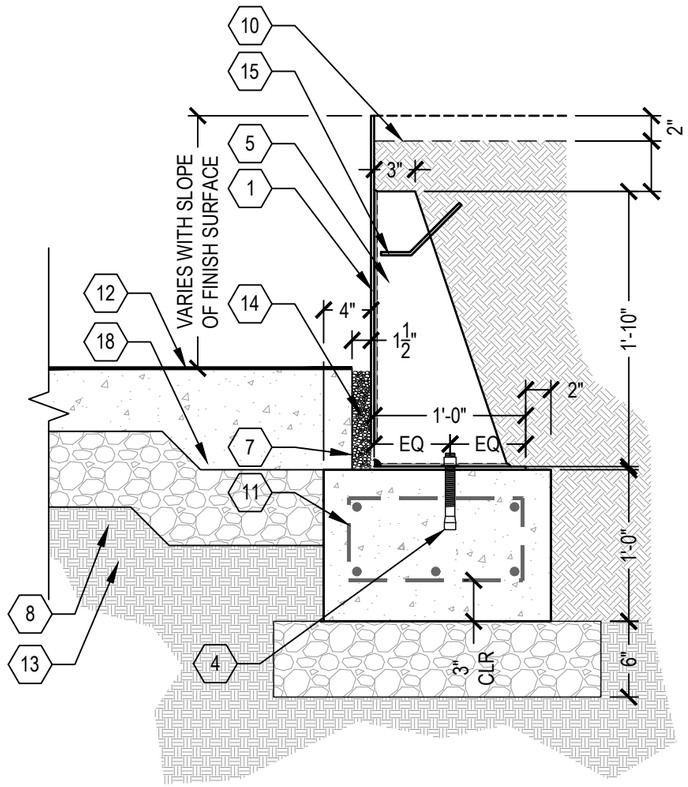
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1. 3/8" WEATHERING STEEL PLATE
2. NOT USED
3. NOT USED
4. SS 3/4" Ø EXPANSION ANCHOR @ 2' OC, 4" MIN EMBEDMENT
5. NOT USED
6. NOT USED
7. CIP CONCRETE FOOTING
8. DENSE GRADED BASE
9. NOT USED
10. TOP OF PLANTING SOIL
11. #4 REBAR @ 10" EACH WAY
12. 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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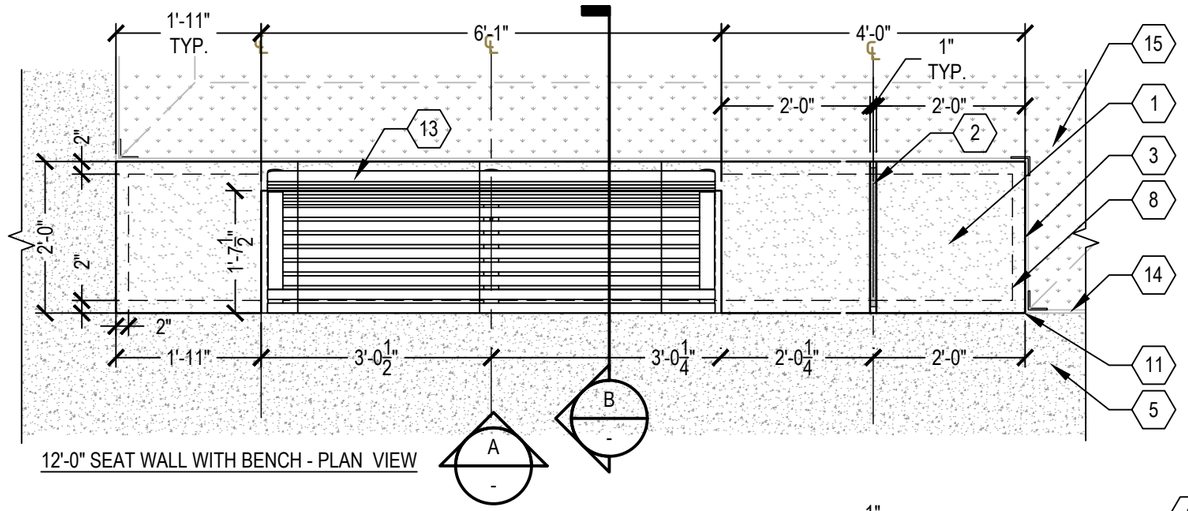
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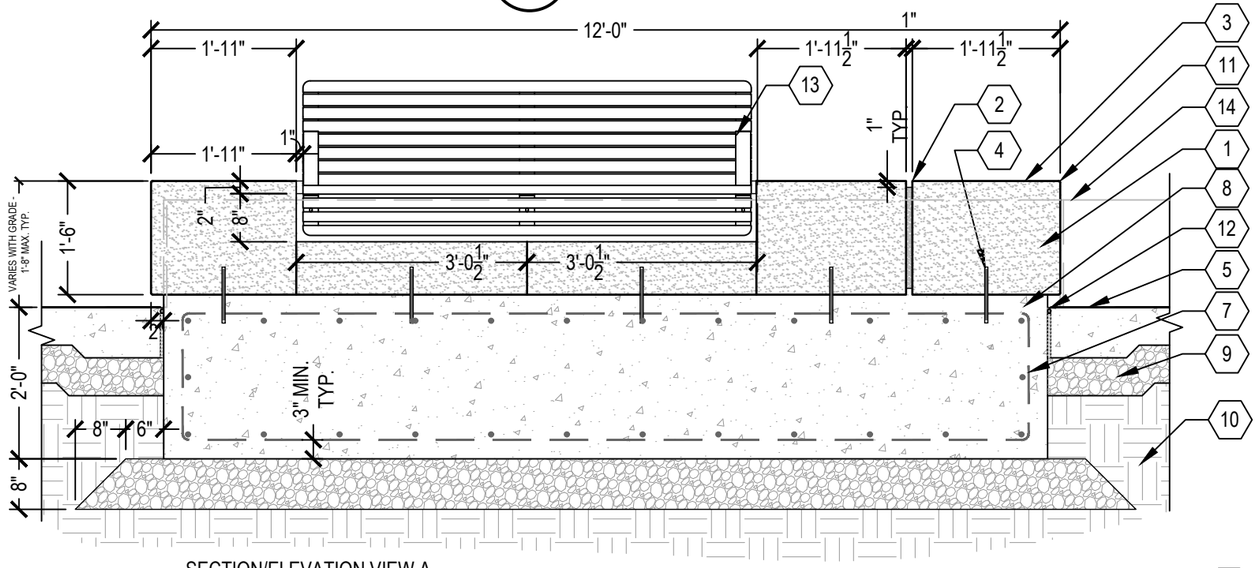
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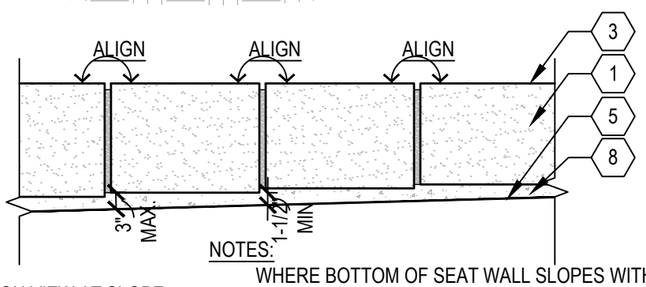
12'-0" SEAT WALL WITH BENCH - PLAN VIEW



SECTION/ELEVATION VIEW A

NOTES:

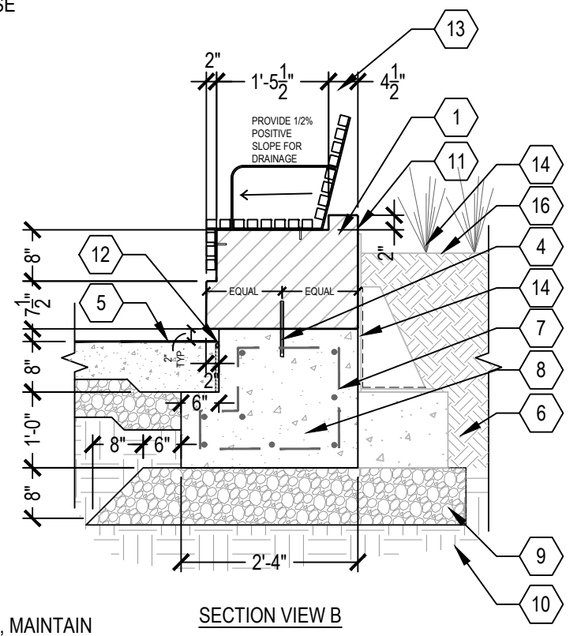
1. PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
2. SEE PLANS FOR TOP- AND BOTTOM-OF-WALL ELEVATIONS. WHERE ELEVATIONS ARE NOT INDICATED, THE MIDPOINT OF THE BENCH SHOULD BE SET 18" ABOVE FINISH GRADE.
3. PROVIDE MEDIUM SAND-BLASTED FINISH ALL EXPOSED STONE FACES.



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'

SMITHGROUP
44 EAST MIFFLIN STREET
SUITE 500
MADISON, WI 53703
608.251.1177
www.smithgroup.com

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

SITE DETAILS
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

-
DRAWING SCALE

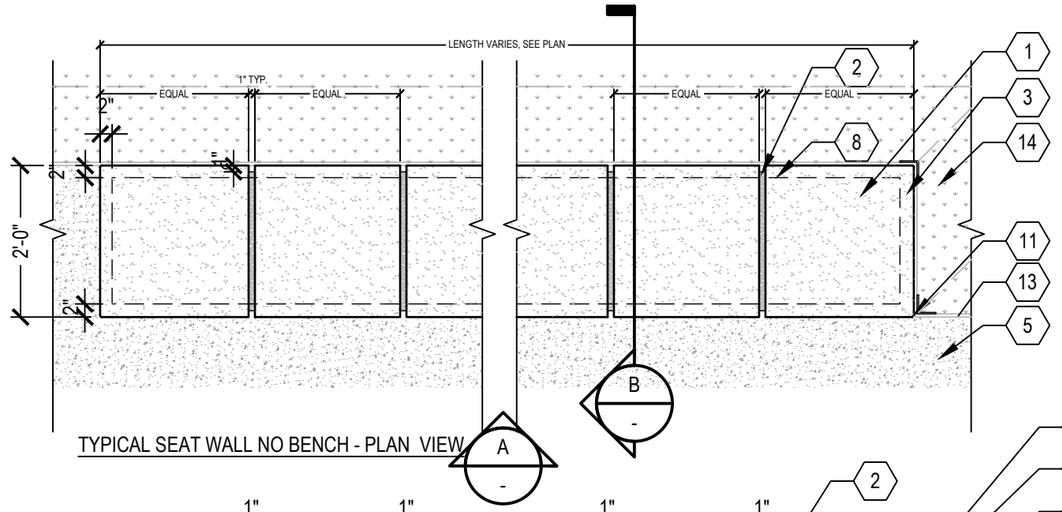
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PROJECT NAME

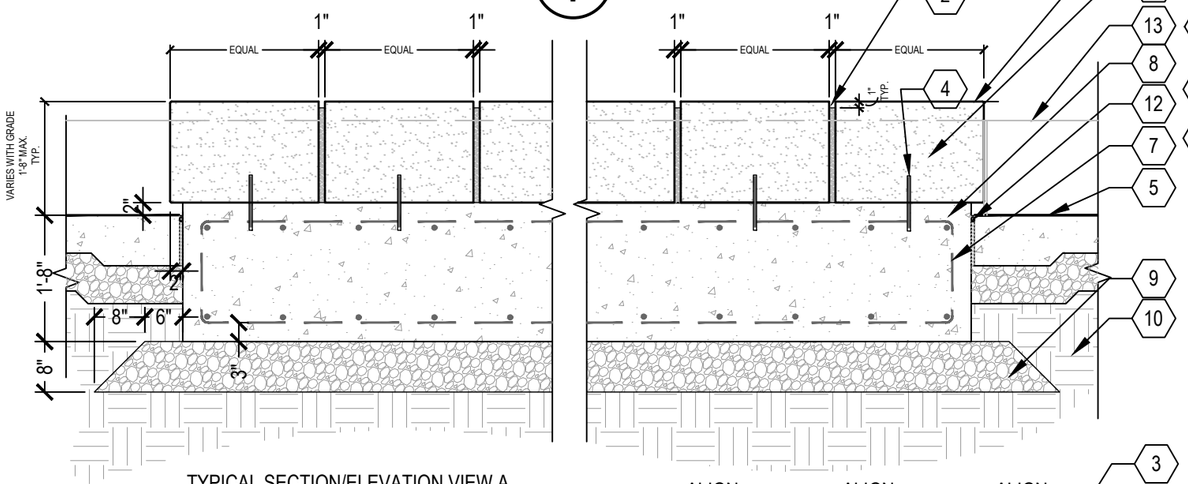
12748
PROJECT NUMBER

L5.07
DRAWING NUMBER

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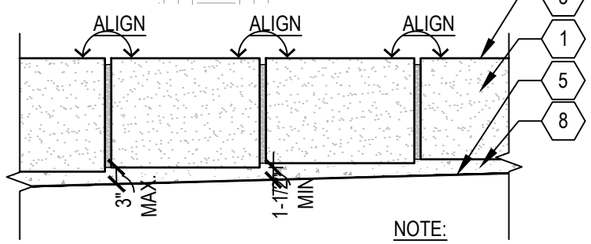
TYPICAL SEAT WALL NO BENCH - PLAN VIEW



TYPICAL SECTION/ELEVATION VIEW A

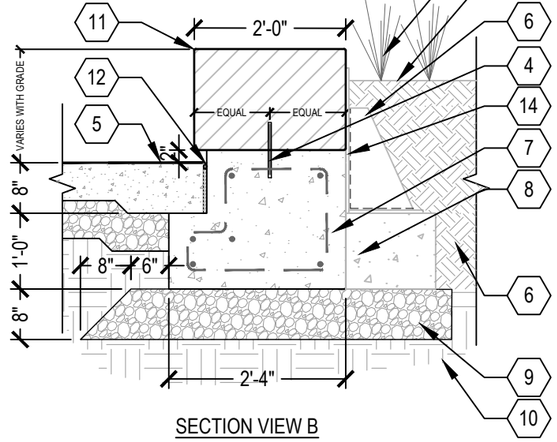
NOTES:

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.



ELEVATION VIEW AT SLOPE

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 (1 / L5.05) (1 / L5.06)
14. ADJACENT PLANTING AREA
15. FINISH GRADE



SECTION VIEW B

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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MADISON WIS.
PROFESSIONAL ENGINEER
6/7/22

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DRAWING TITLE

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DRAWING REFERENCE

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DRAWING SCALE

06/07/2022

URP - ELEMENT COLLECTIVE
PROJECT NAME

12748
PROJECT NUMBER

L5.08
DRAWING NUMBER

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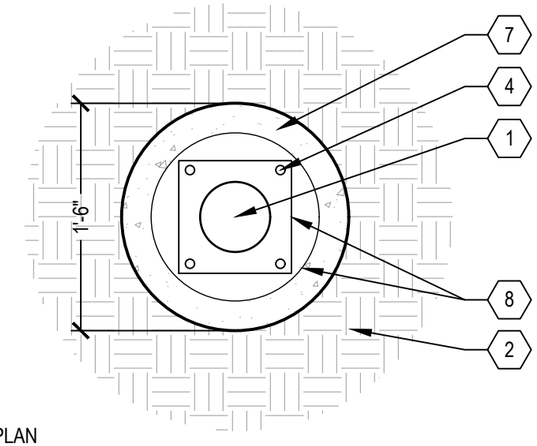
KEYED NOTES

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

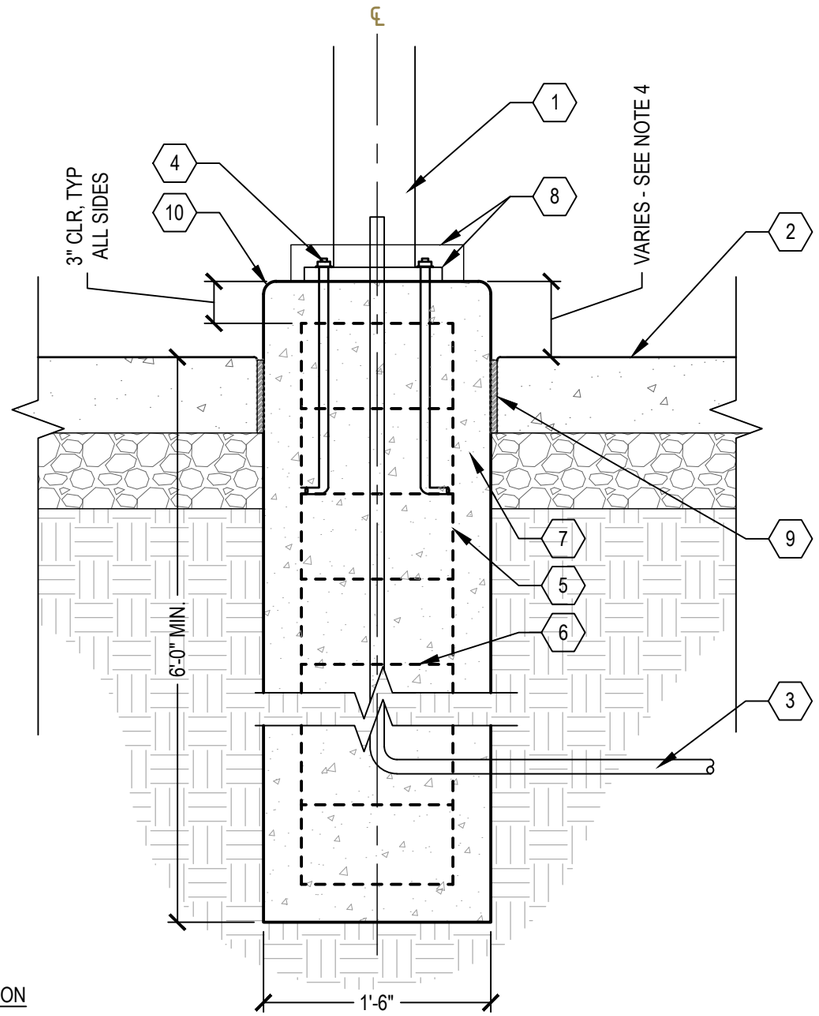
NOTES

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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6/7/22

SITE DETAILS
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

-
DRAWING SCALE

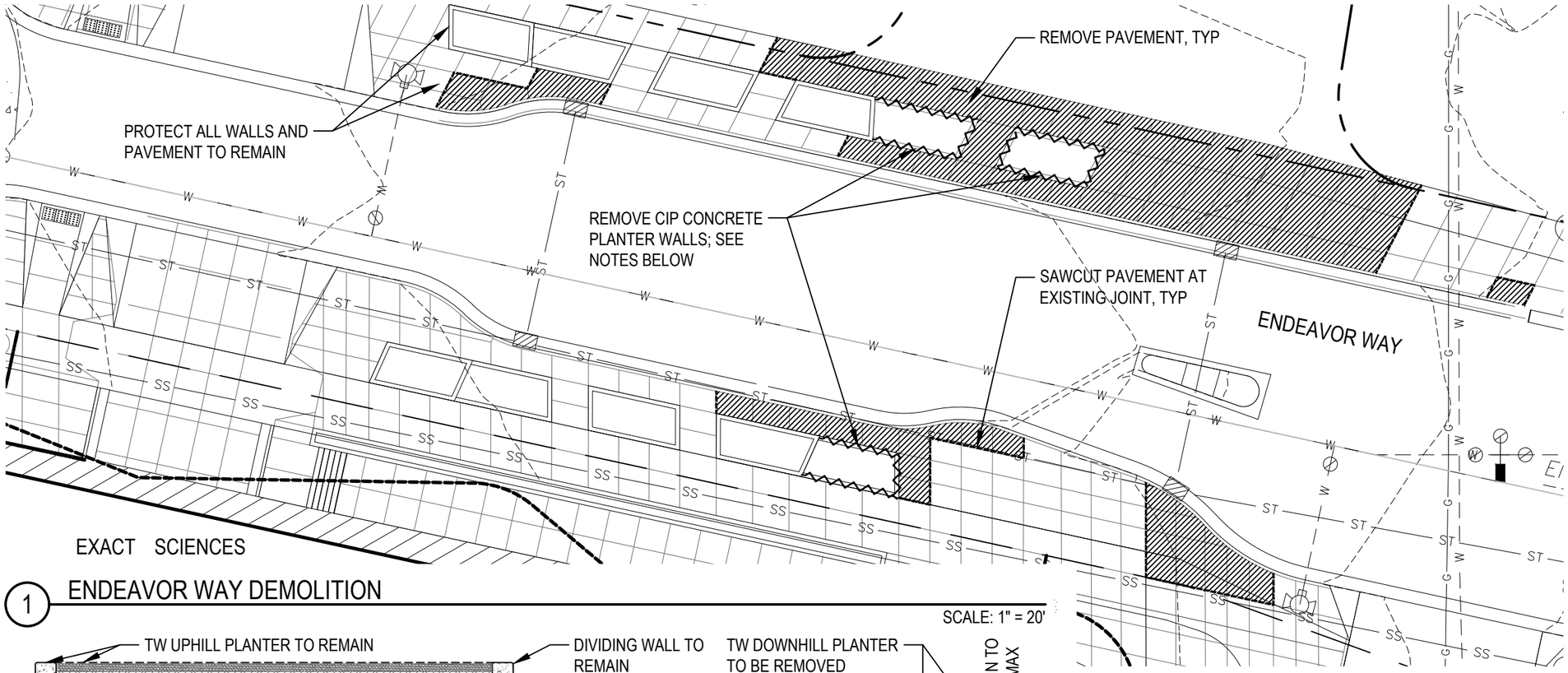
06/07/2022

URP - ELEMENT COLLECTIVE
PROJECT NAME

12748
PROJECT NUMBER

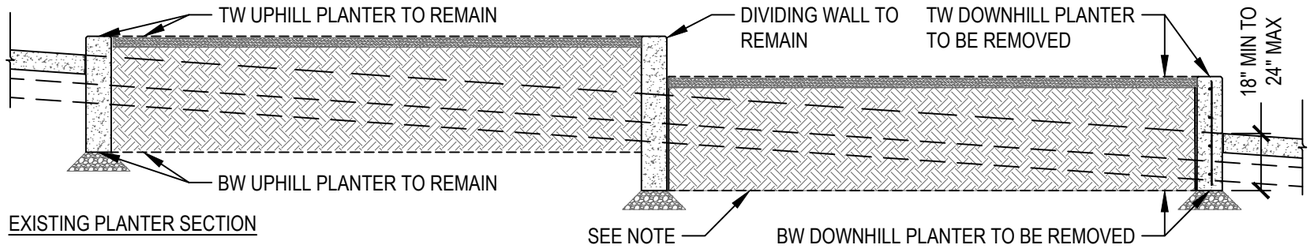
L5.09
DRAWING NUMBER

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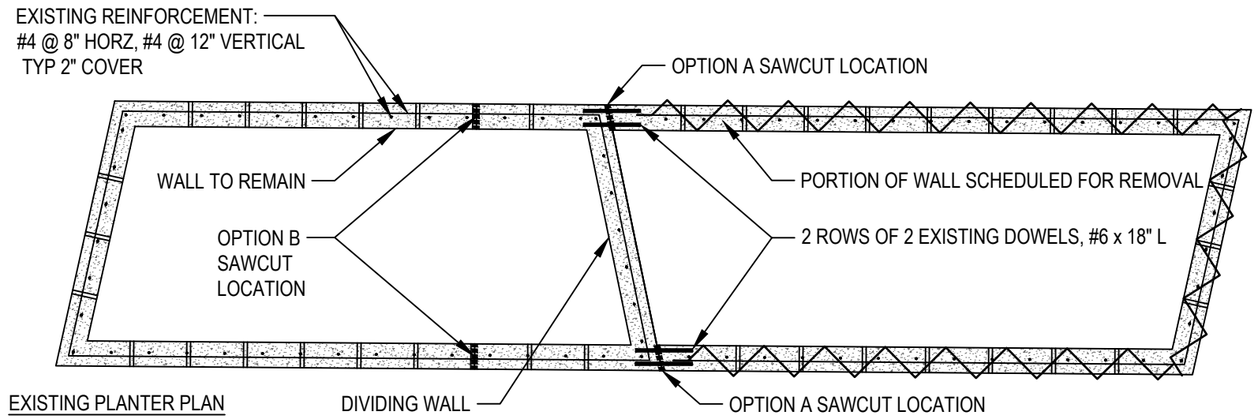


1 ENDEAVOR WAY DEMOLITION

SCALE: 1" = 20'



EXISTING PLANTER SECTION



EXISTING PLANTER PLAN

2 ENDEAVOR WAY PLANTER DEMOLITION AND MODIFICATIONS

SCALE: NTS

PLANTER MODIFICATION STRATEGIES

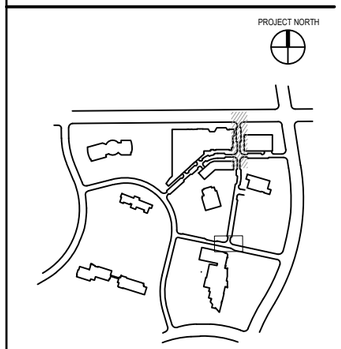
OPTION A (PREFERRED APPROACH): SAWCUT AT PLANTER STEP PARALLEL WITH EAST FACE OF DIVIDING WALL. CORE AND REMOVE DOWELS. COORDINATE WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE FOR ON-SITE REVIEW OF EXPOSED WALL AFTER DEMOLITION. IF APPERANACE OF EXPOSED WALL IS ACCEPTABLE, PATCH CORED DOWELS AND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

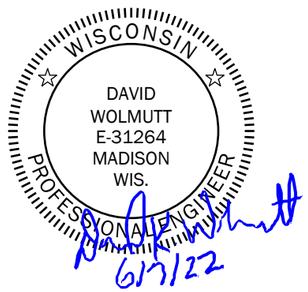
OPTION B: IF NEWLY EXPOSED EAST FACE IS UNFINISHED/ UNPRESENTABLE, OR WALL REMOVAL DAMAGES NEWLY EXPOSED FACE BEYOND PRACTICAL REPAIR, SAW CUT WALL TO REMAIN AT LOCATIONS SHOWN OR ALTERNATIVE LOCATIONS AS COORDINATED WITH LANDSCAPE ARCHITECT. REPOUR WALL TO REMAIN AND PROVIDE REINFORCEMENT AND FINISH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

SMITHGROUP
44 EAST MIFFLIN STREET
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KEY PLAN





ENDEAVOR WAY DEMOLITION AND PLANTER MODIFICATIONS
DRAWING TITLE

IFC
ISSUED WITH

-
DRAWING REFERENCE

AS SHOWN
DRAWING SCALE

06/07/2022
URP - ELEMENT COLLECTIVE
PROJECT NAME

12748
PROJECT NUMBER

L5.10
DRAWING NUMBER

FILE: C:\Users\nhilmer\SmithGroup Companies Inc\PRJ - 12748 - SmithGroup - SmithGroup\CAD\06 Landscape\12748-L5.XX ENDEAVOR PLANTERS.dwg USER: nhilmer DATE: May. 05 2022 TIME: 02:14 pm

24" Stop

Catalyst Way

9"

Endeavor Lane

6'

6" Crosswalk

8'

N

MARK	REVISION	DATE	BY
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13355

MADISON, WI

CONTRACT NO: 9003

13355

MARKING PLAN

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

M:\DESIGN\Projects\13355\CAD\Traffic\13355TE-PavementMarking.dwg

13355

M-1

Charmany Drive

Element Way

Remove Markings

6"

24" Stop

6" Crosswalk

Remove Markings

Remove Markings

Remove Markings

Remove Markings

6"

6" Crosswalk

Remove Markings

MARK	REVISION	DATE	BY
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13355

MARKING PLAN

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

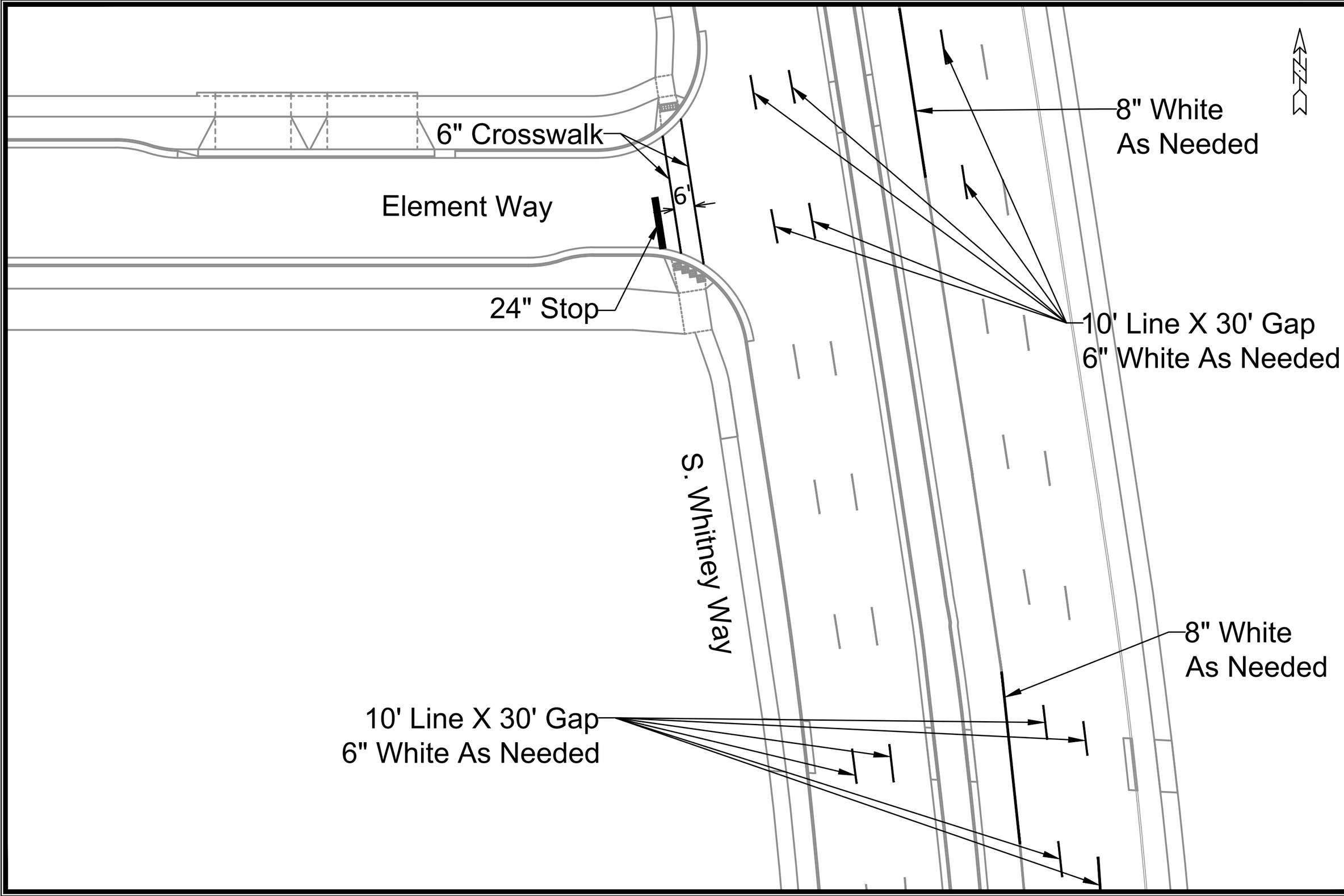
MADISON, WI

CONTRACT NO: 9003

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13355

M-2



MARKING PLAN

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

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13355 | MADISON, WI | CONTRACT NO: 9003

13355

M-3

6'

Element Way

6'

6" Crosswalk

Continental Crosswalk

Catalyst Way

MARK	REVISION	DATE	BY
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13355

MADISON, WI

CONTRACT NO: 9003

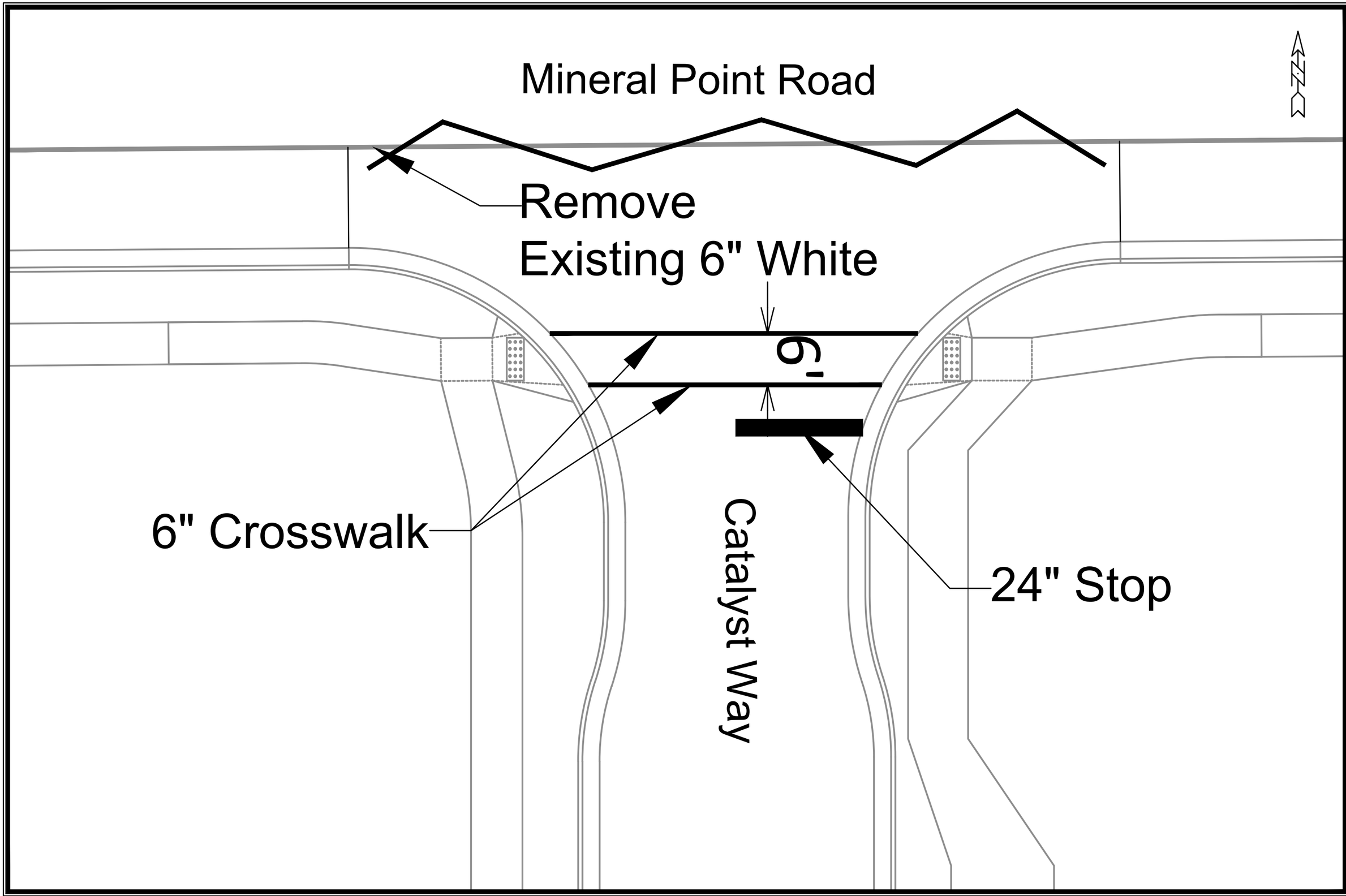
MARKING PLAN

UNIVERSITY RESEARCH PARK - ELEMENT COLLECTIVE

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M-4



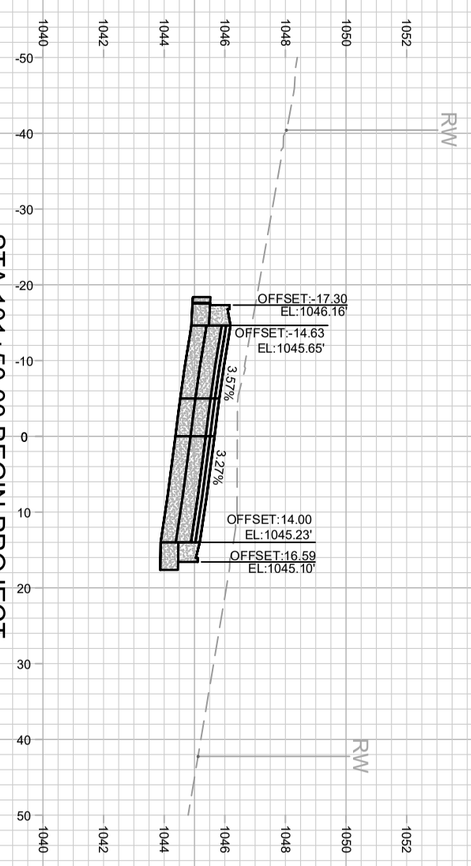
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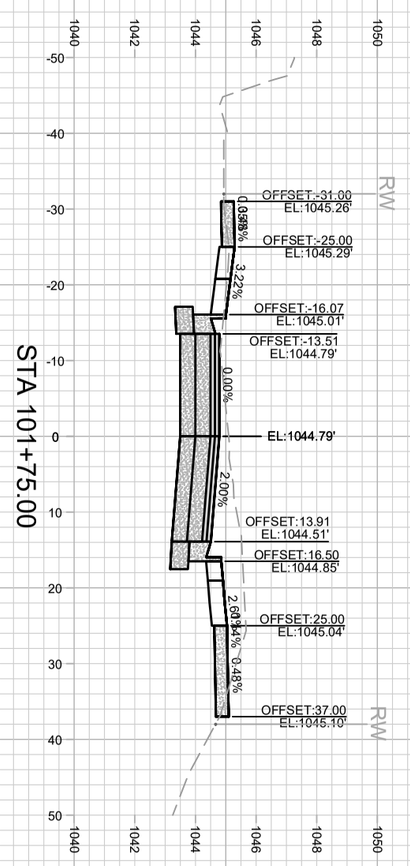
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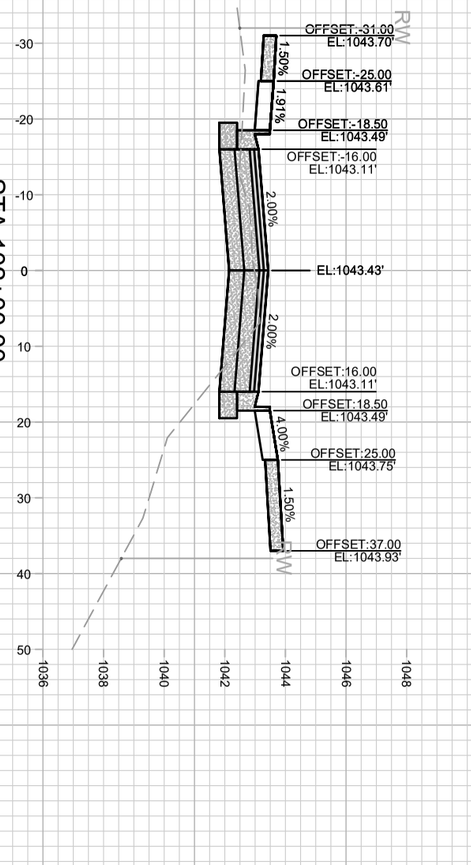
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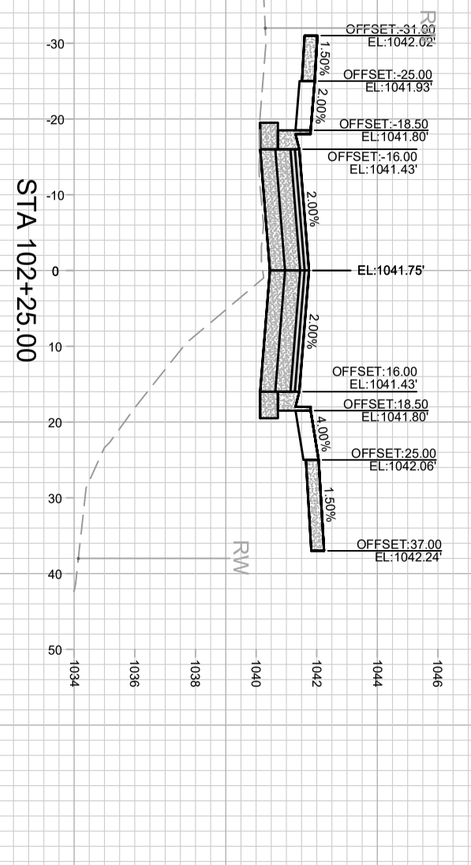
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13355
M-5









X-1

13355

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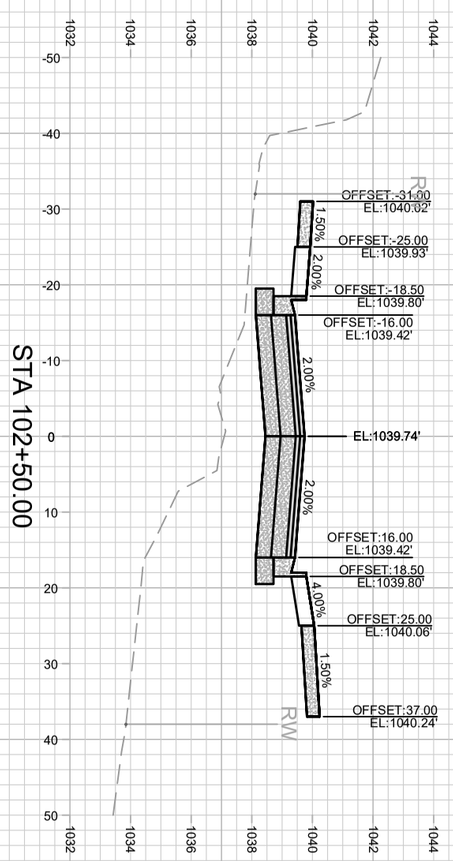
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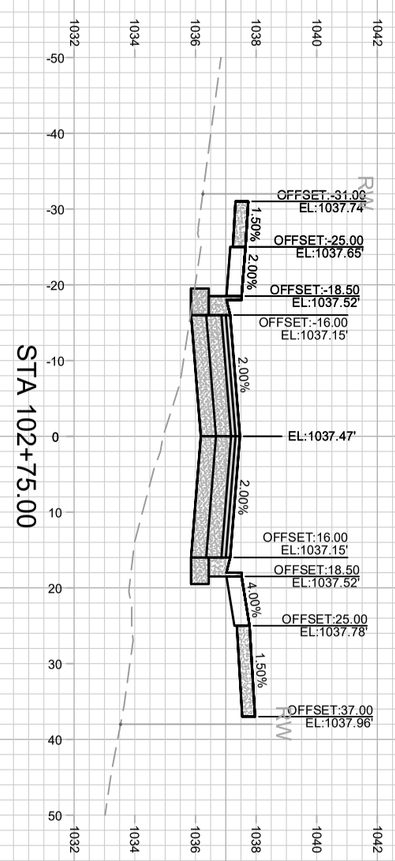
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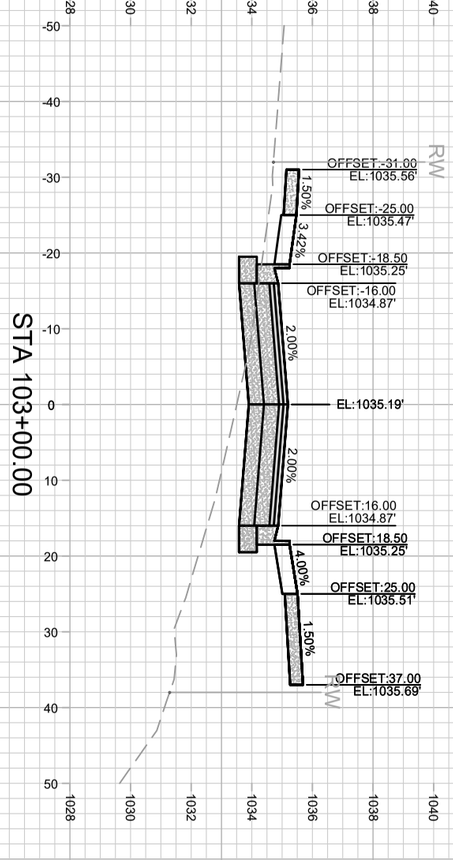
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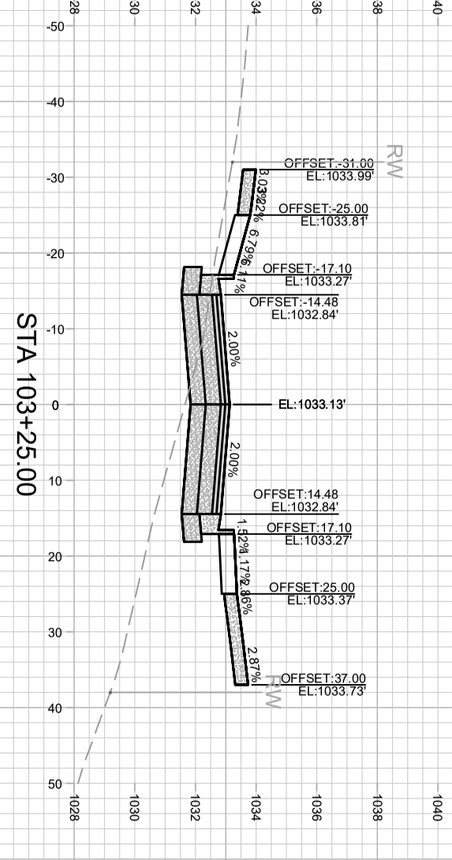
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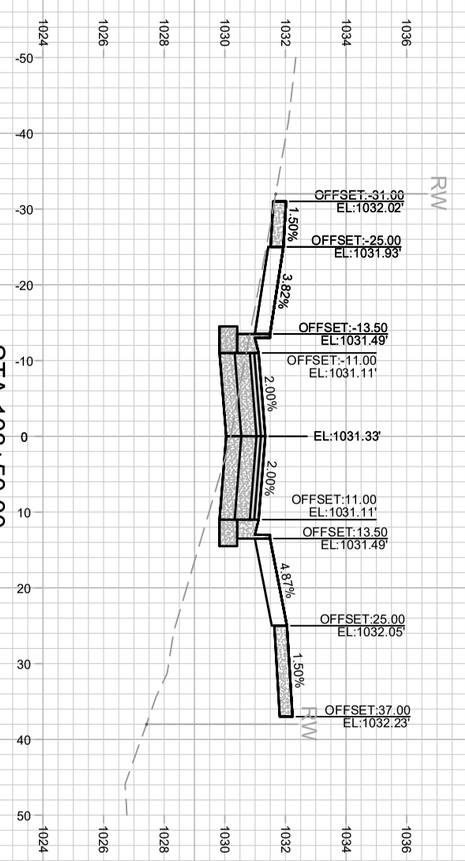


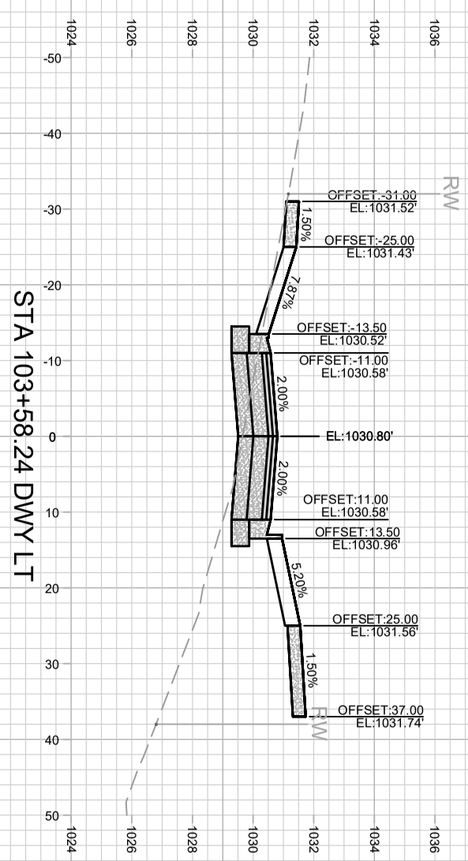
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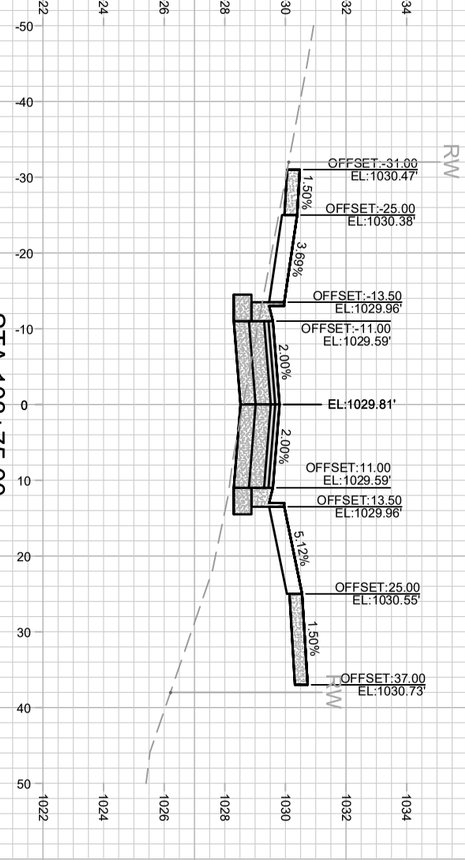
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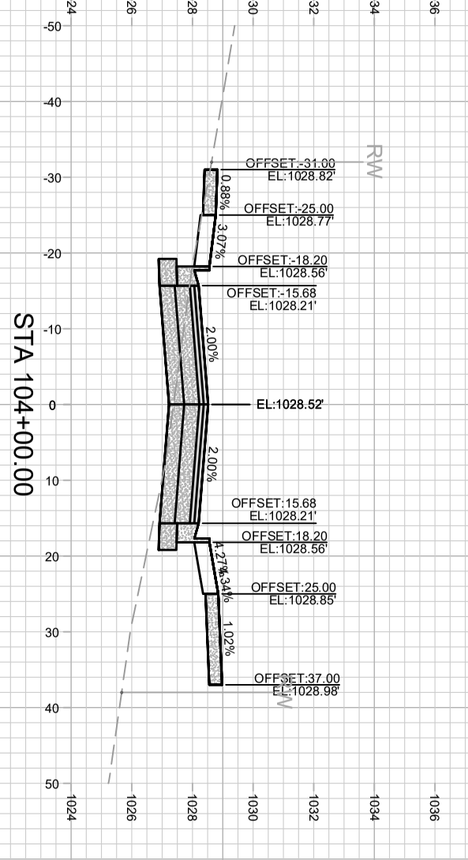
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13355 | X-2









X-3

13355

ELEMENT WAY CROSS SECTIONS 13355

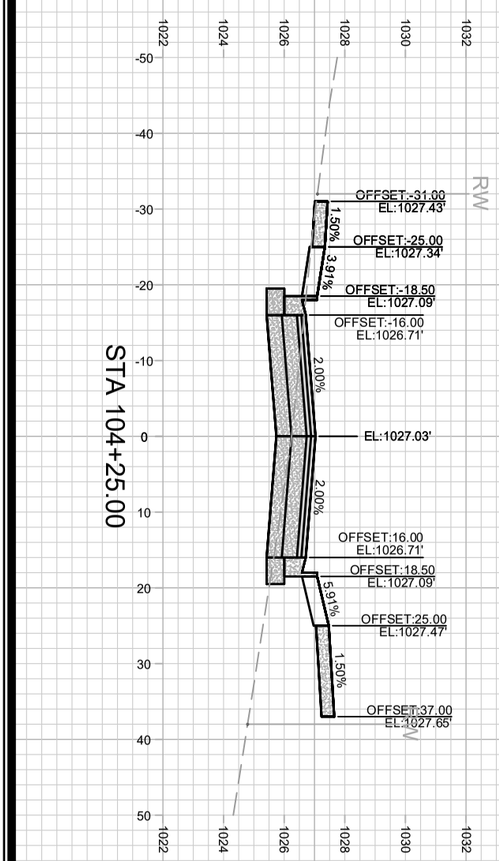
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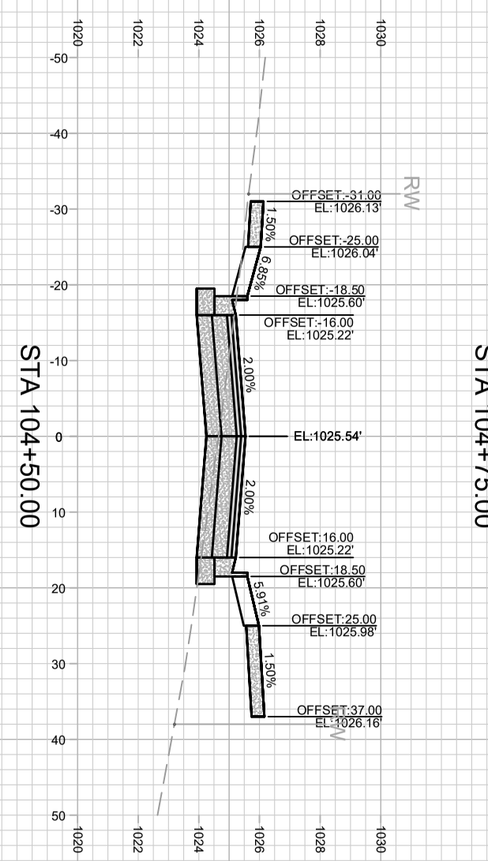
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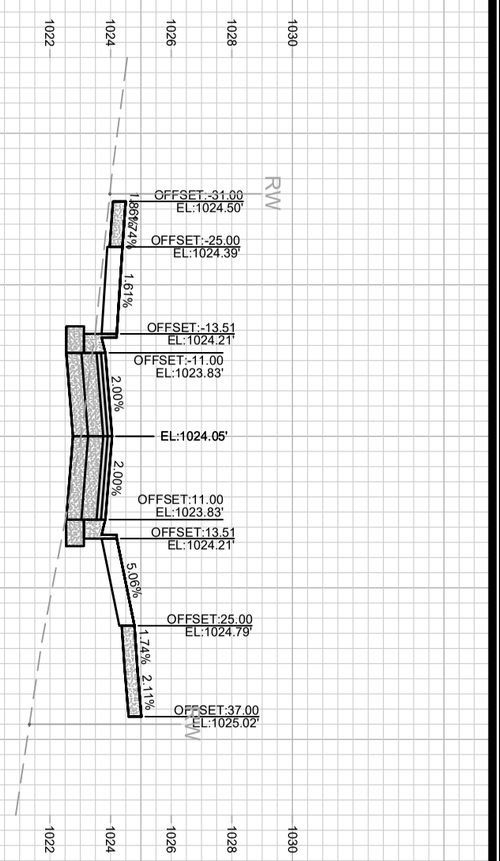
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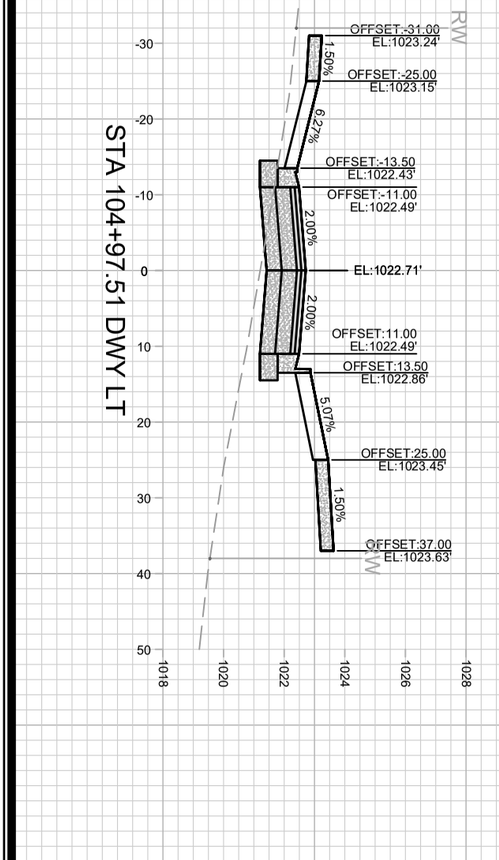
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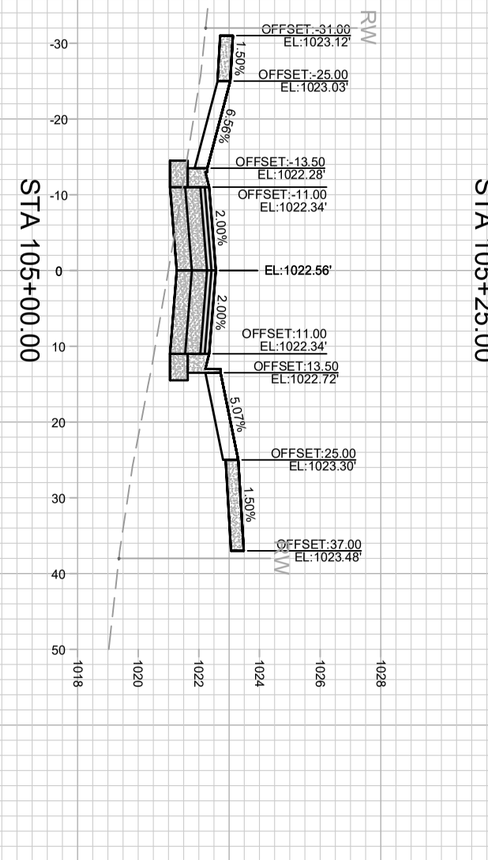
13355 X-3

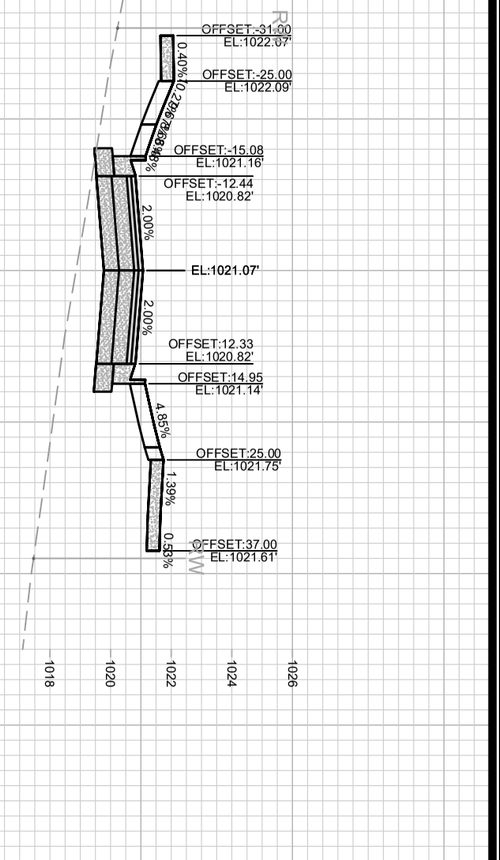










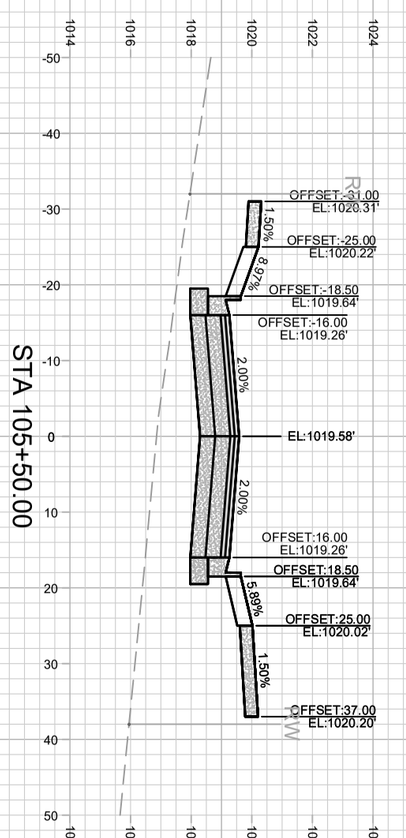


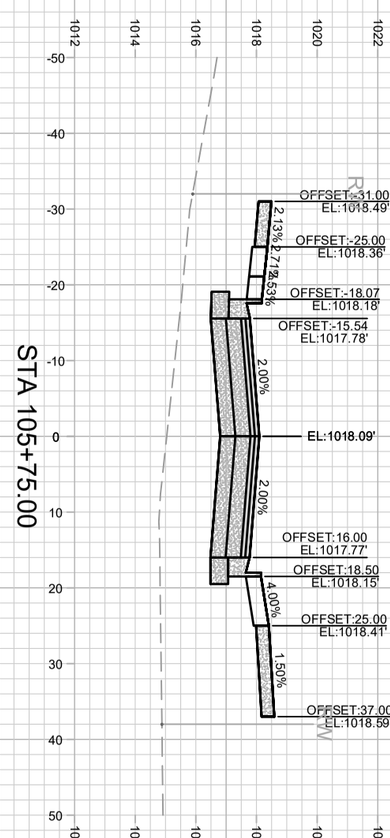
X-4	13355	ELEMENT WAY CROSS SECTIONS	13355
		UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE	MADISON, WI
		M:\DESIGN\Projects\13355\CAD\Streets\13355EN-Corridor.dwg	CONTRACT NO: 9003

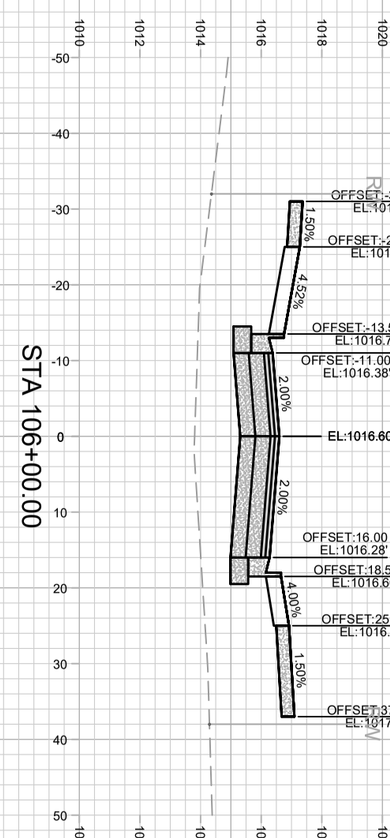
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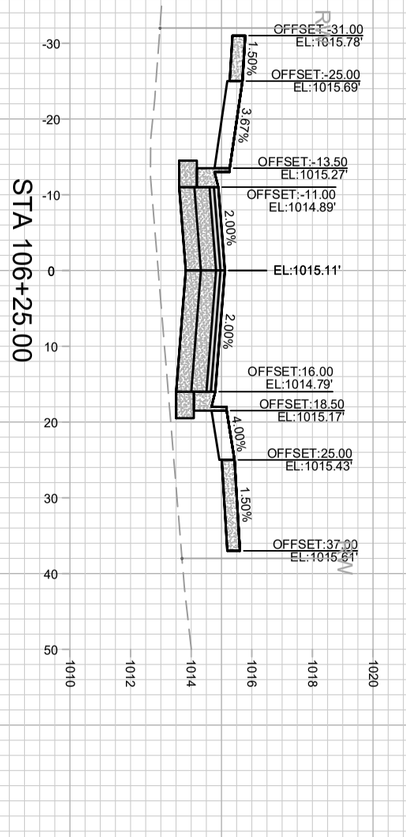
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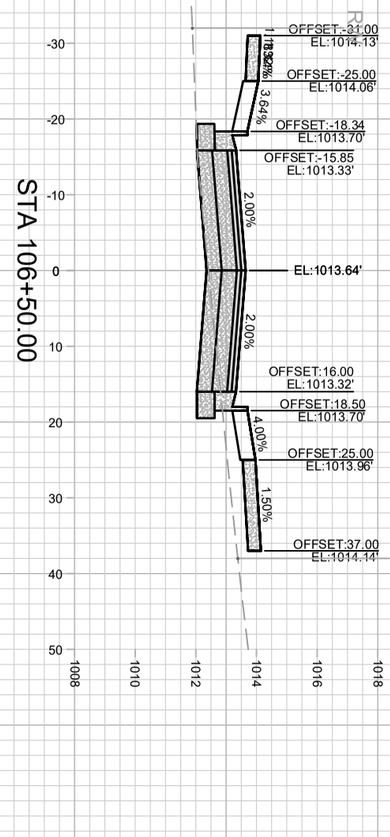
13355 | X-4

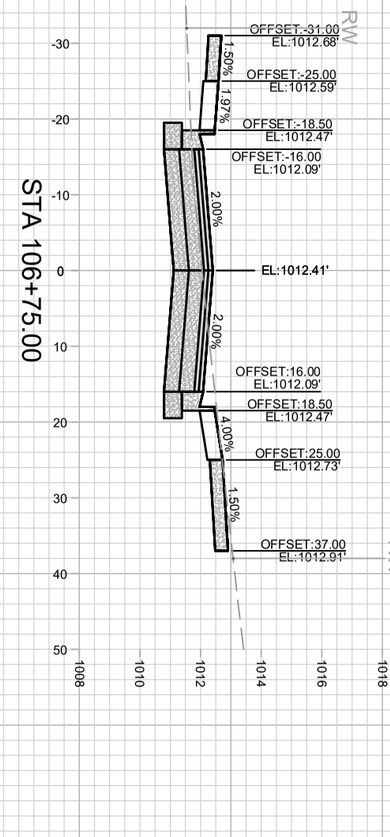












X-5

13355

ELEMENT WAY CROSS SECTIONS 13355

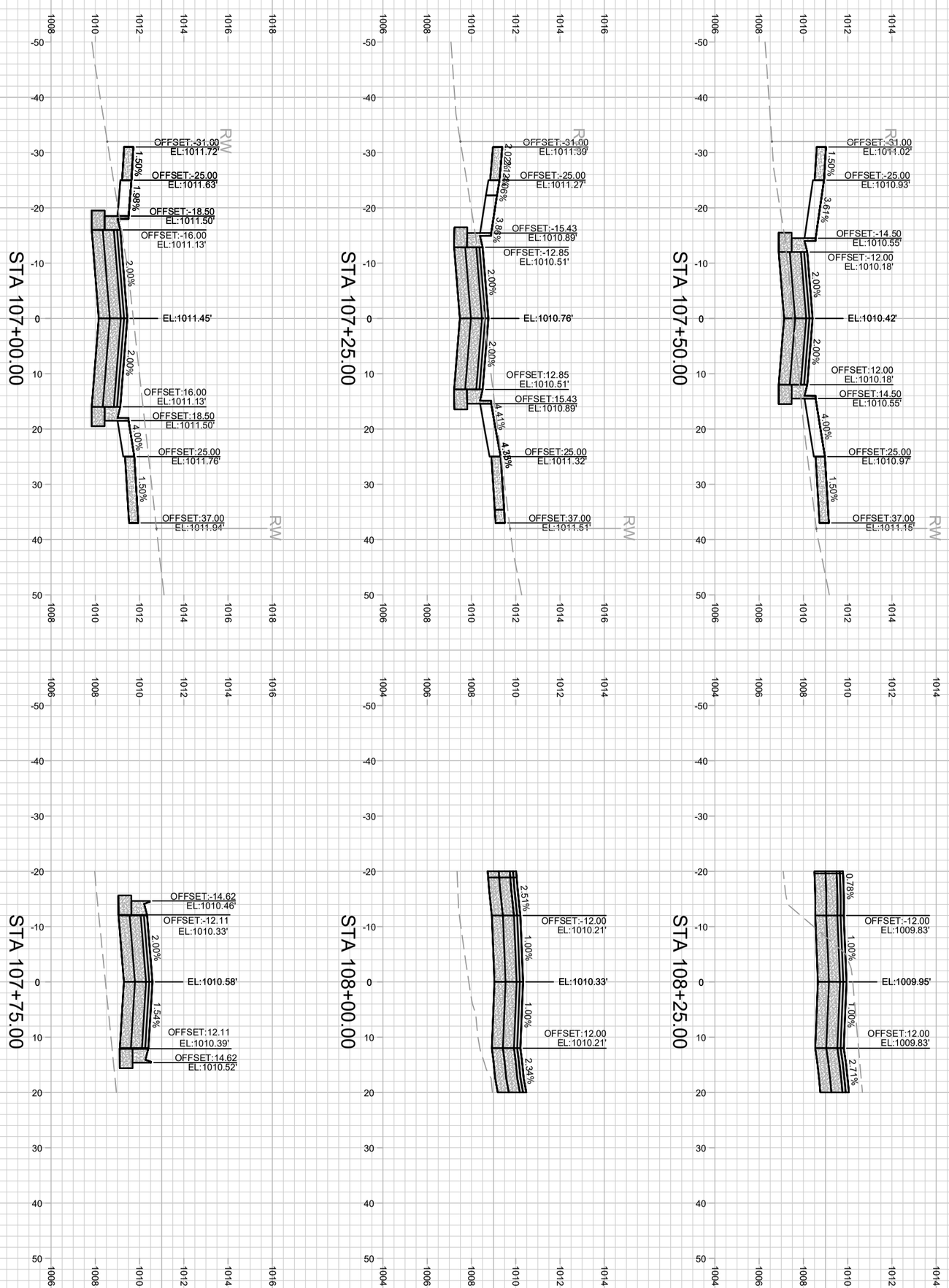
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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Designed By: AJZ | Date: 5/25/2022 1:56 PM | Scale: ########

13355 | X-5



X-6

13355

ELEMENT WAY CROSS SECTIONS 13355

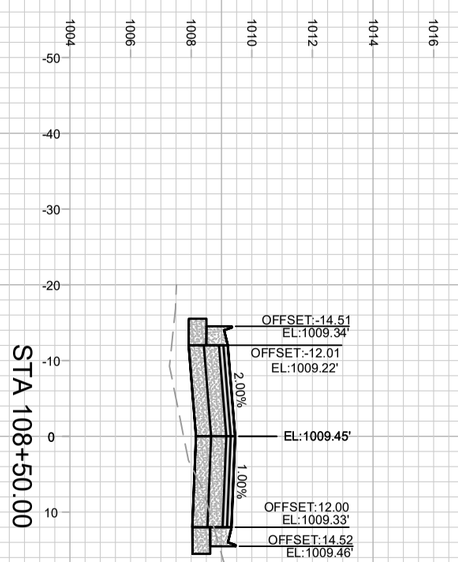
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

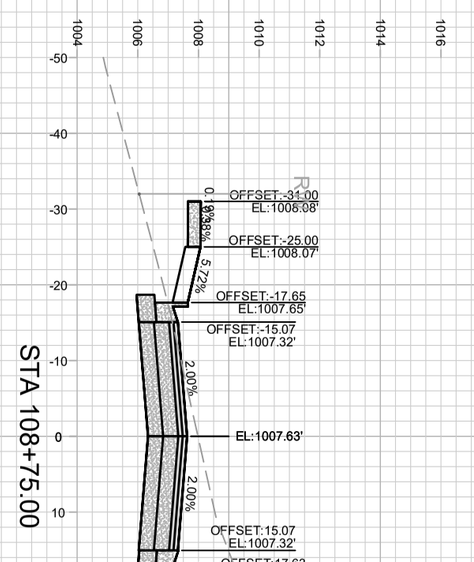
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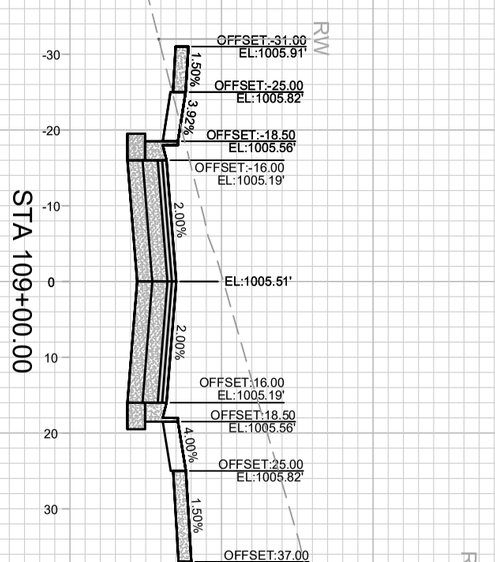
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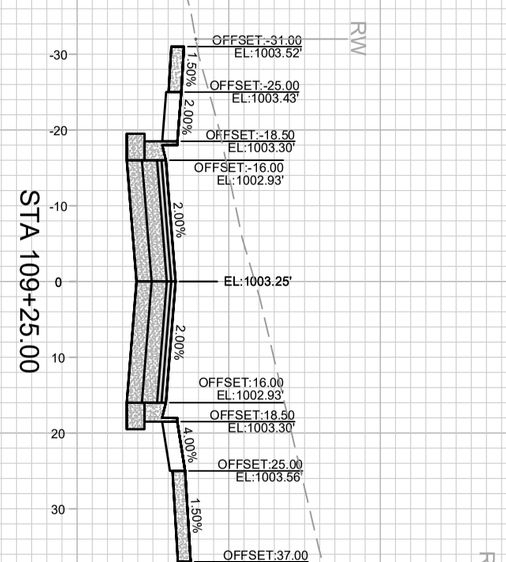
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13355 X-6







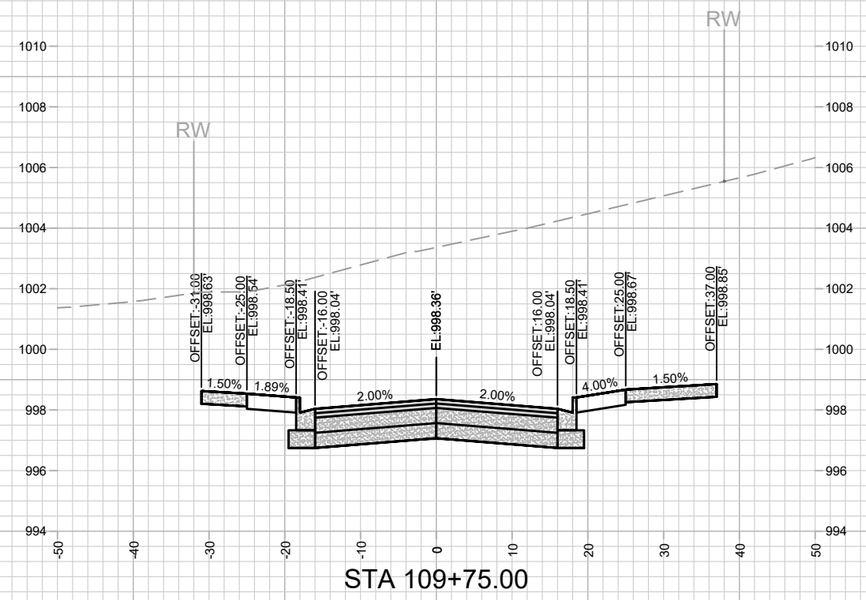


X-7	13355	ELEMENT WAY CROSS SECTIONS	13355
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		M:\DESIGN\Projects\13355\CAD\Streets\13355EN-Corridor.dwg	CONTRACT NO: 9003

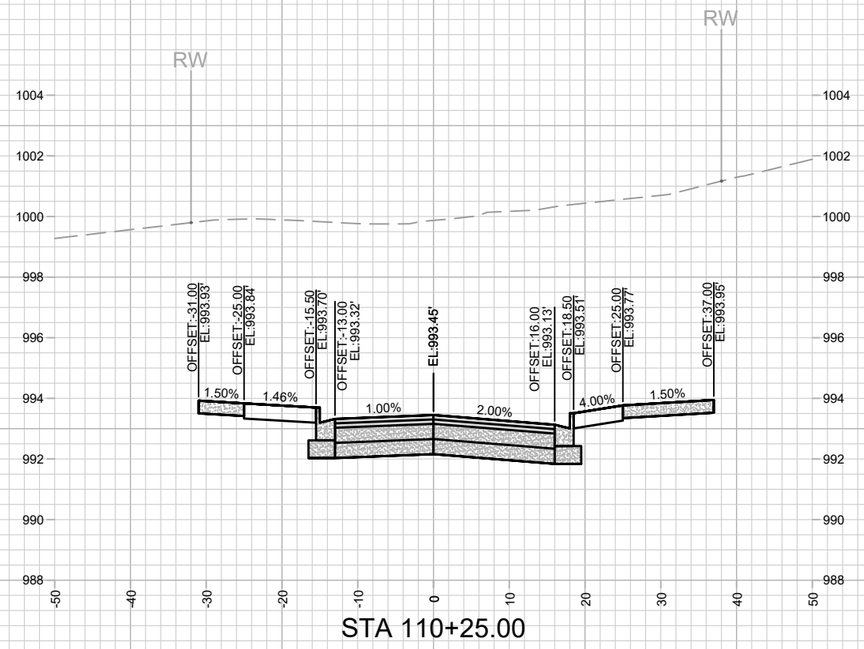
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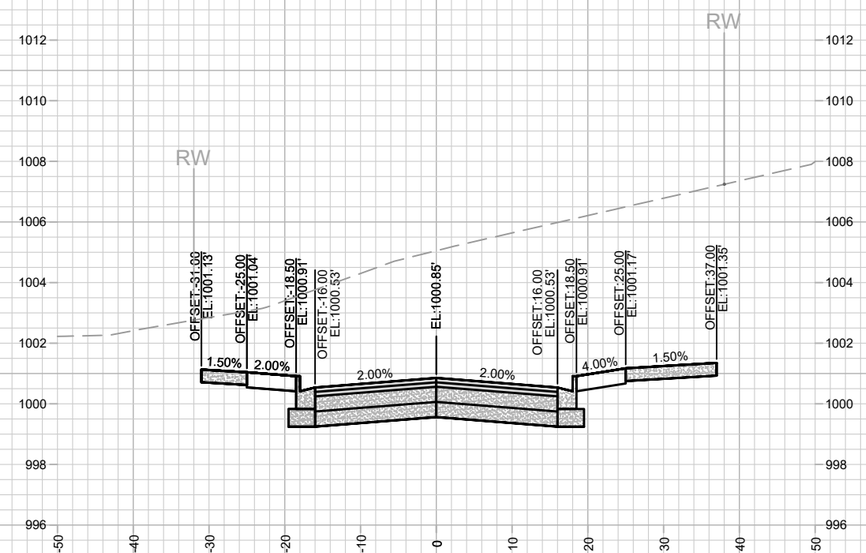
13355 | X-7



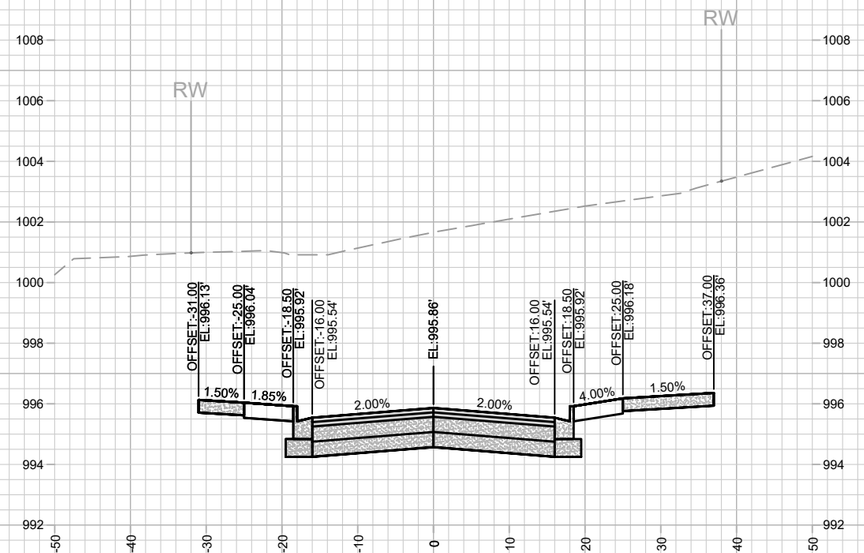
STA 109+75.00



STA 110+25.00



STA 109+50.00



STA 110+00.00

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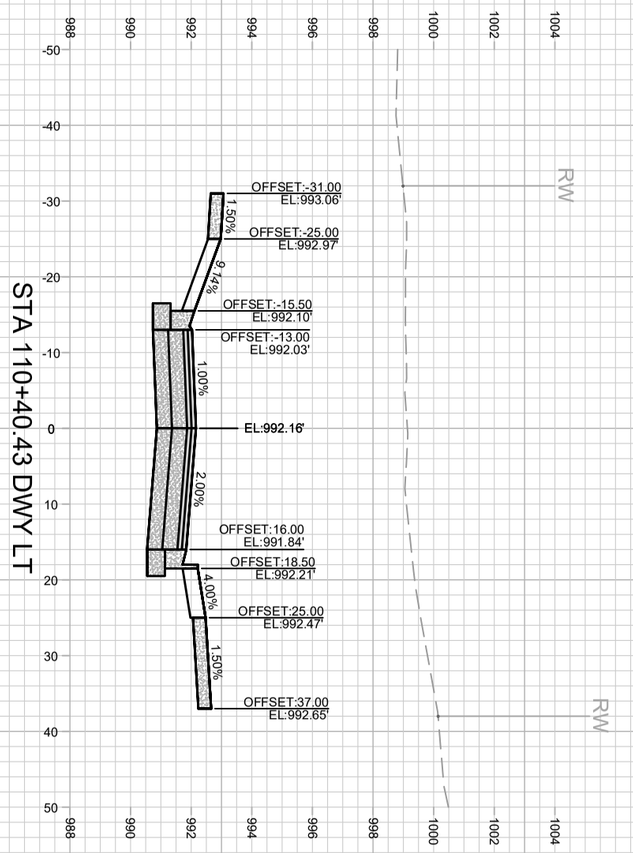
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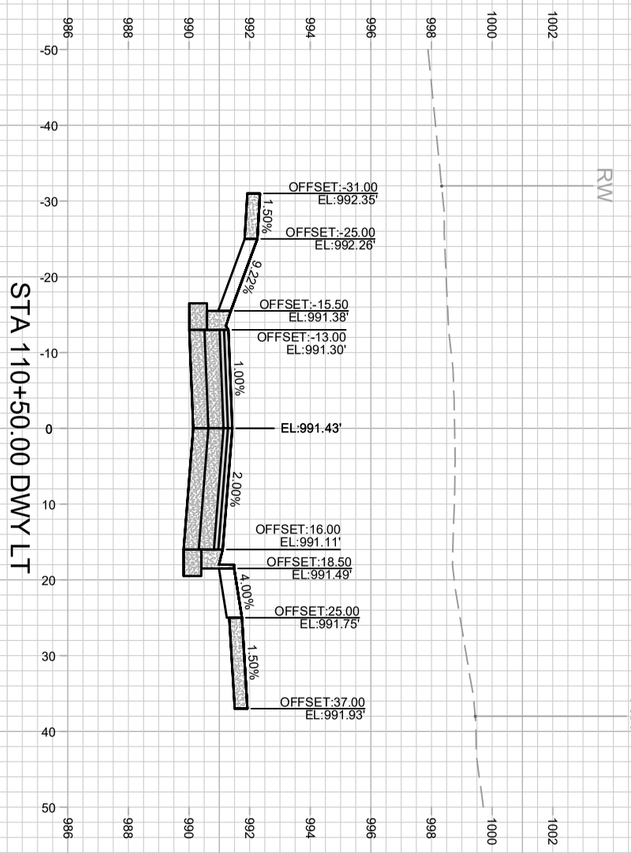
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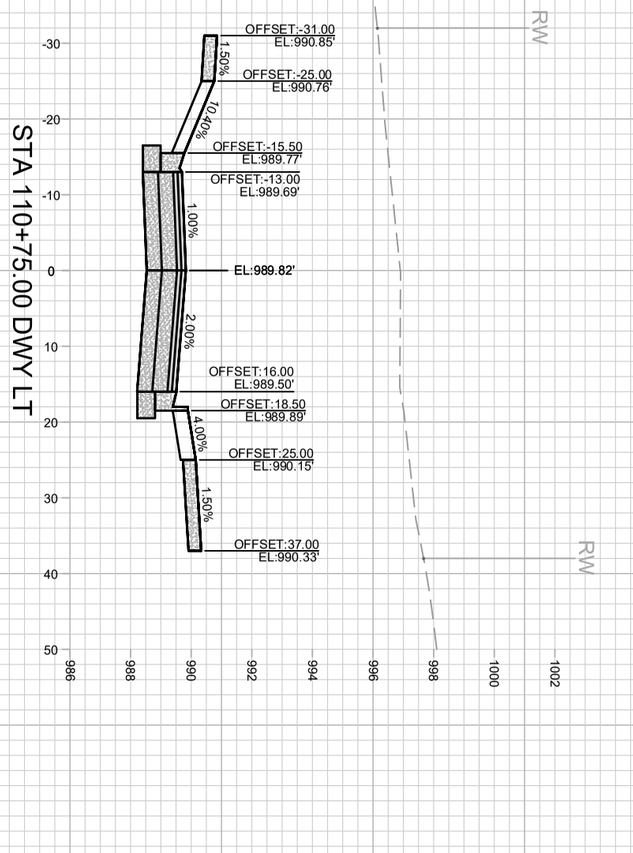
ELEMENT WAY CROSS SECTIONS
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE
MADISON, WI
CONTRACT NO: 9003

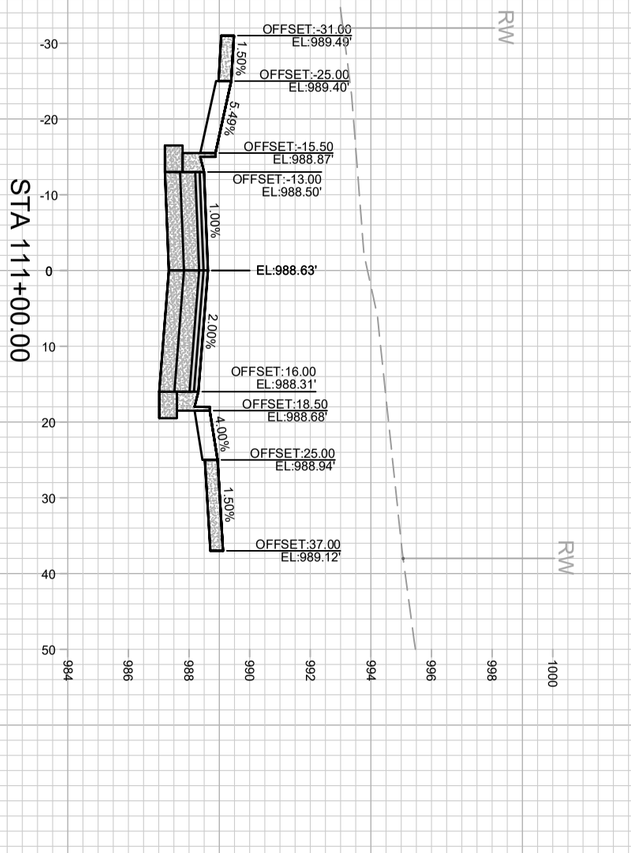
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13355
X-8









X-9

13355

ELEMENT WAY CROSS SECTIONS 13355

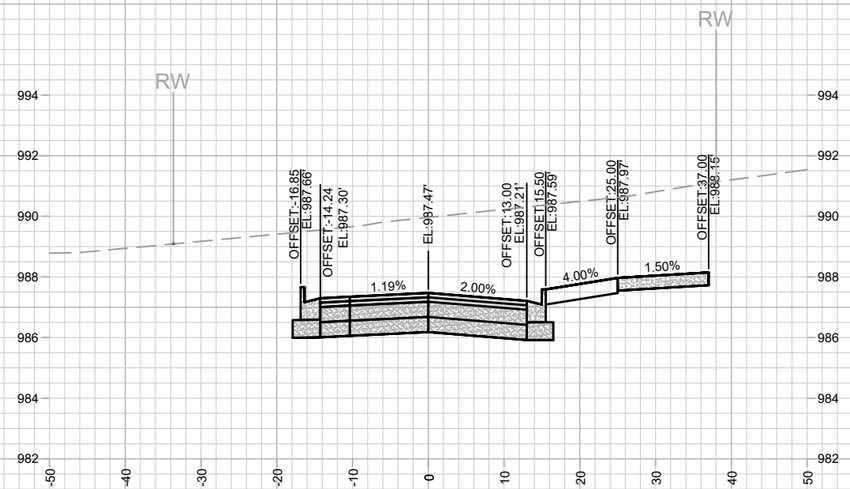
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

M:\DESIGN\Projects\13355\CAD\Streets\13355EN-Corridor.dwg CONTRACT NO: 9003

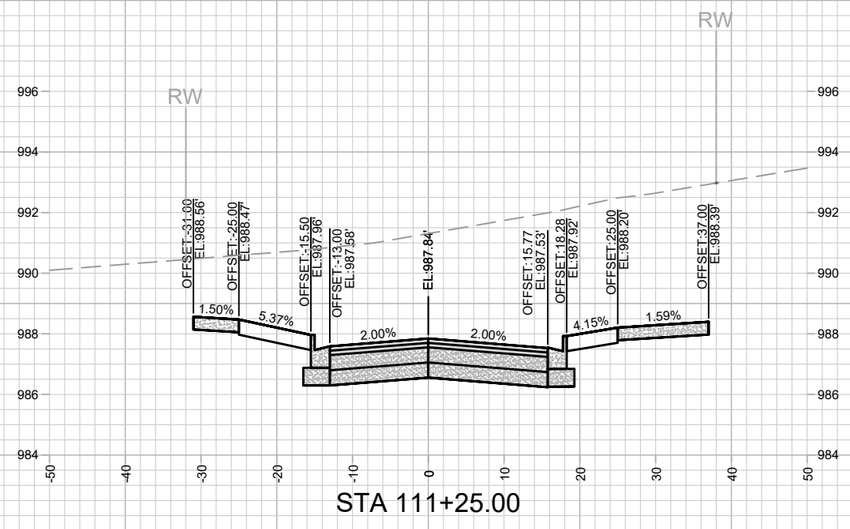
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Designed By: AJZ | Date: 5/25/2022 1:57 PM | Scale: ########

13355 | X-9



STA 111+50.00 END PROJECT



STA 111+25.00

13355

ELEMENT WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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13355

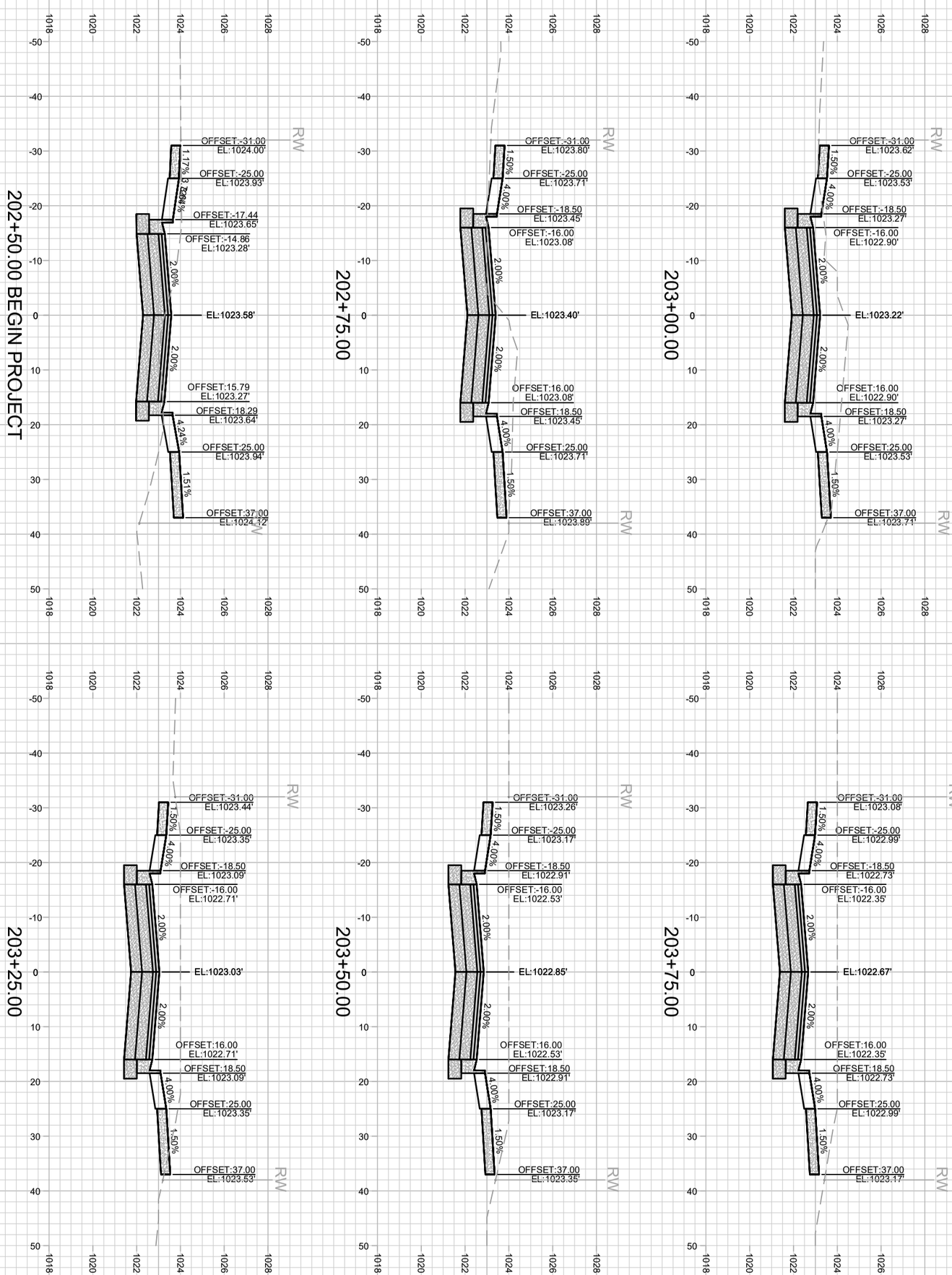
X-10

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13355

X-10



X-11

13355

CATALYST WAY CROSS SECTIONS 13355

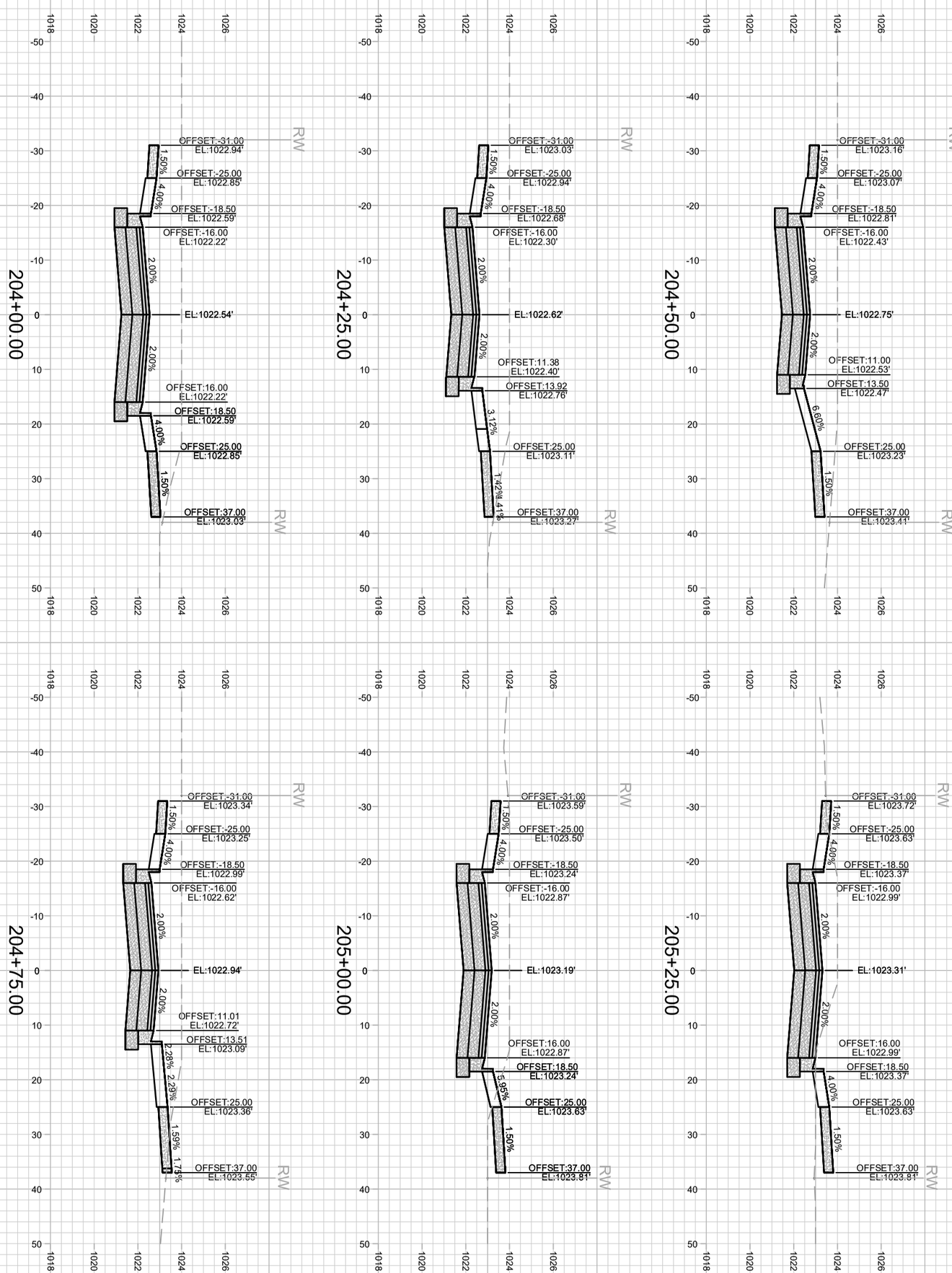
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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13355 X-11



X-12

13355

CATALYST WAY CROSS SECTIONS 13355

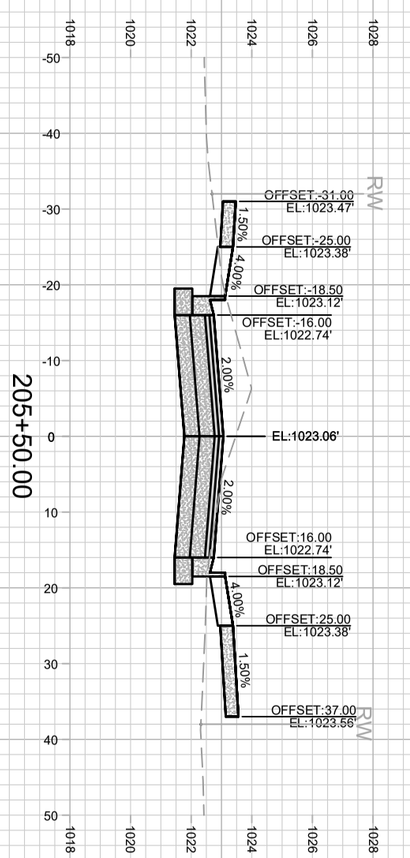
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

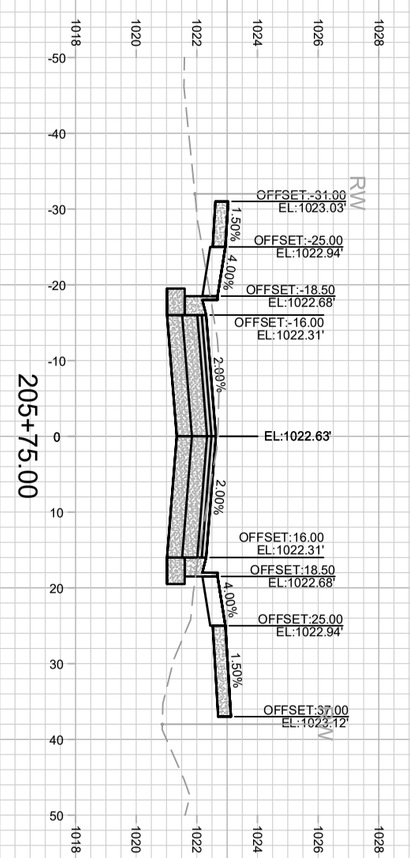
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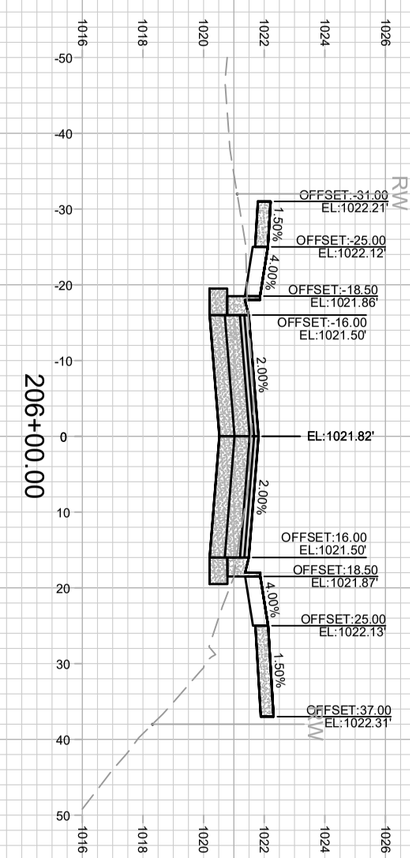
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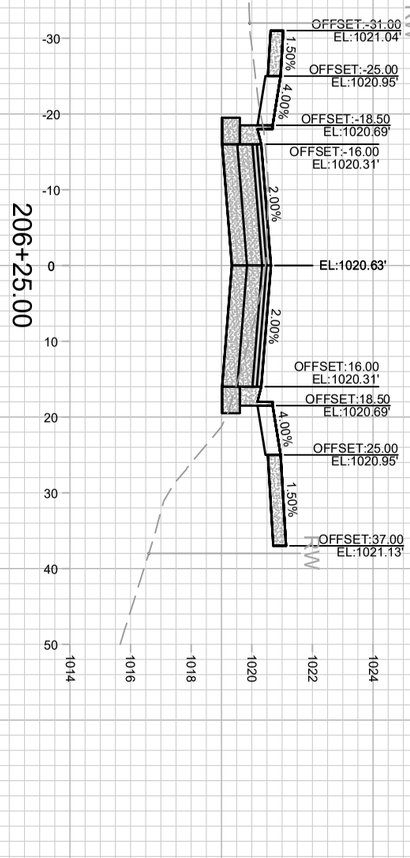
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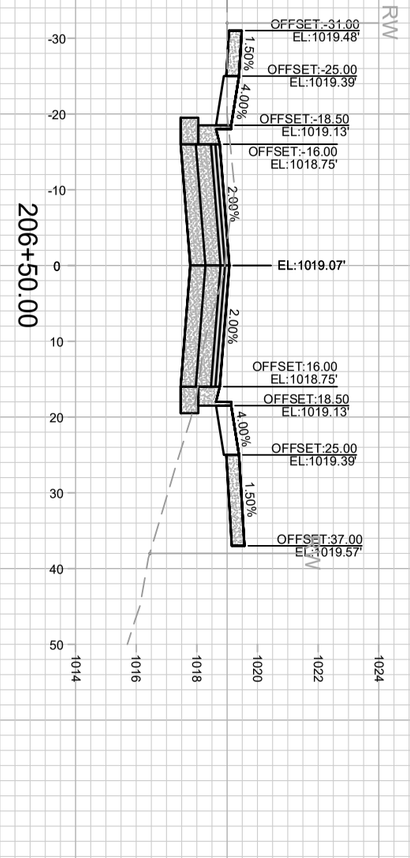
13355 X-12

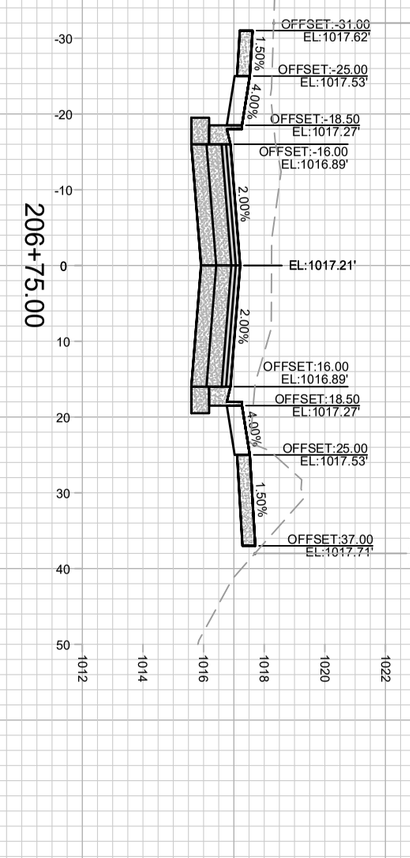












X-13

13355

CATALYST WAY CROSS SECTIONS 13355

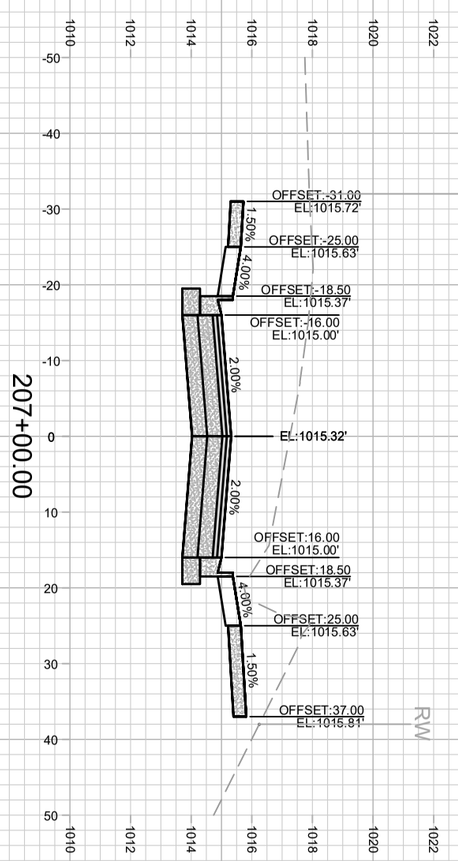
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

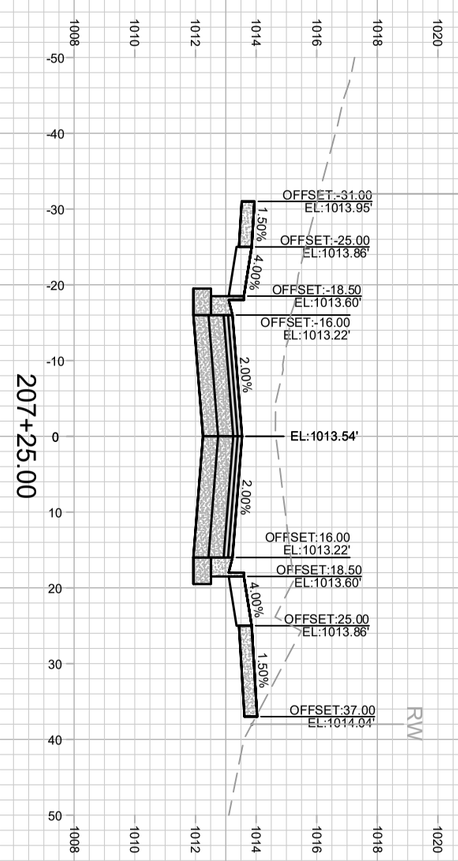
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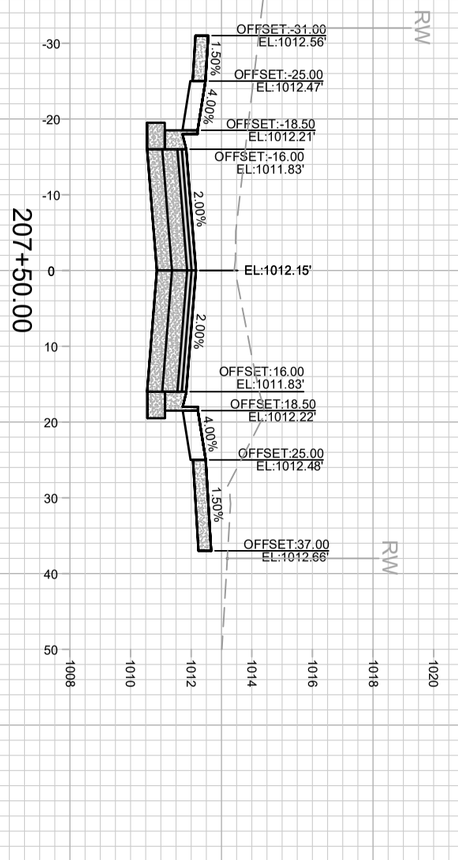
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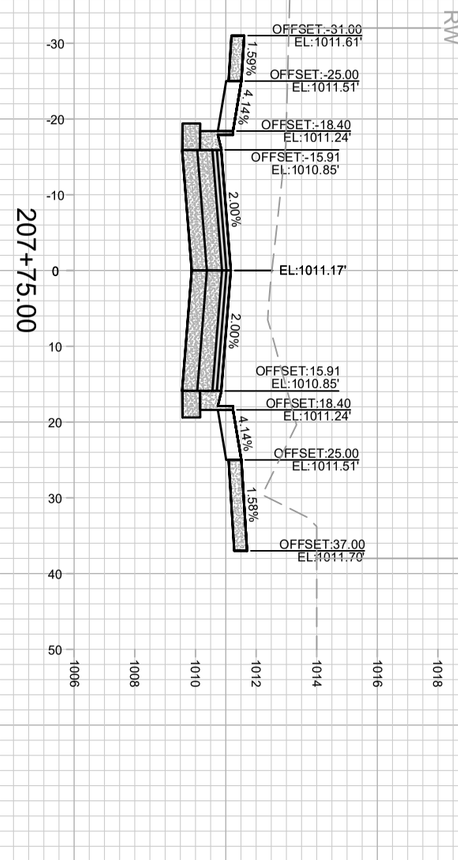
Designed By: AJZ | Date: 5/25/2022 1:58 PM | Scale: ########

13355 | X-13









X-14

13355

CATALYST WAY CROSS SECTIONS 13355

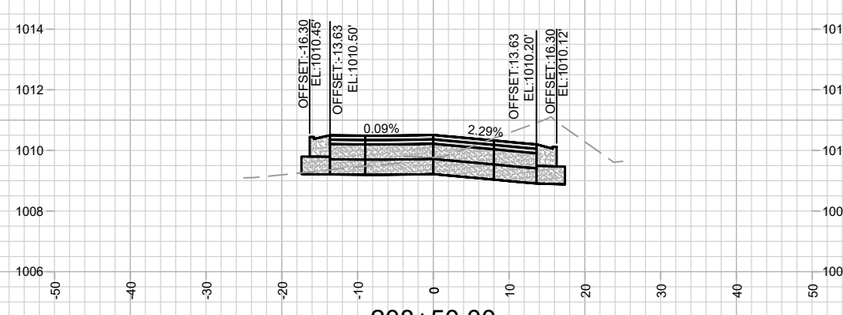
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

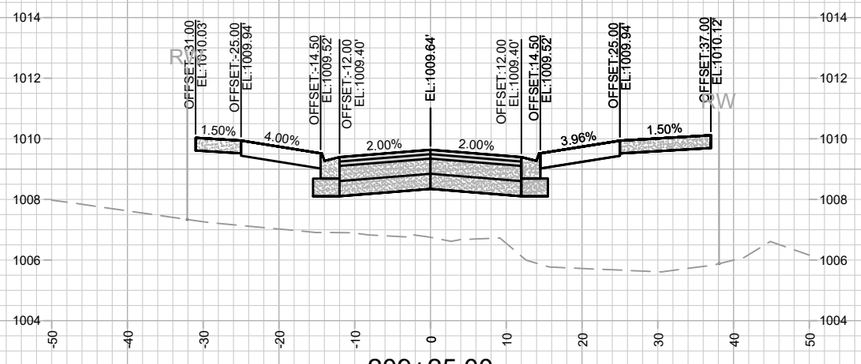
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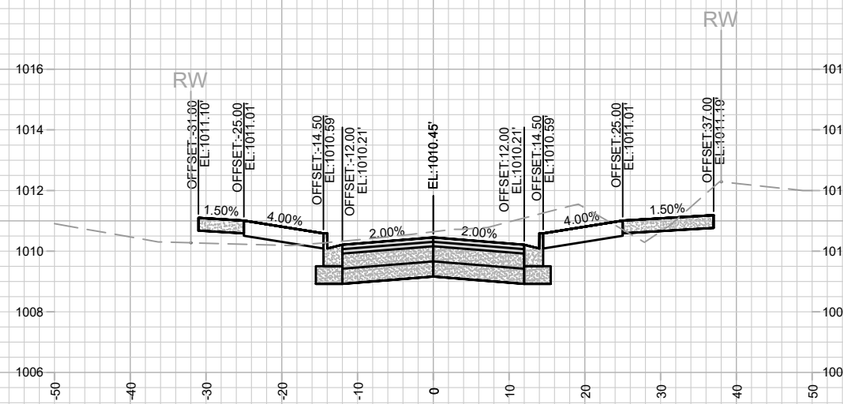
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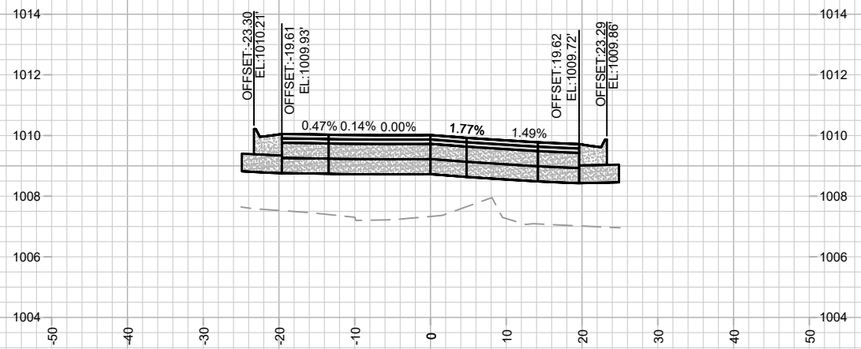
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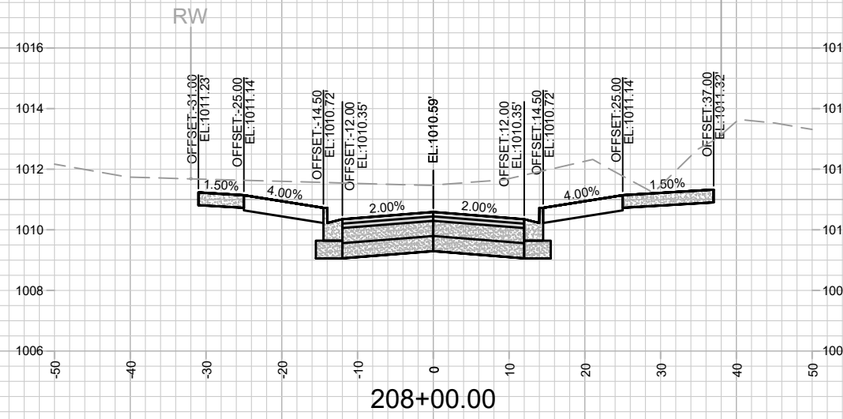
13355 X-14

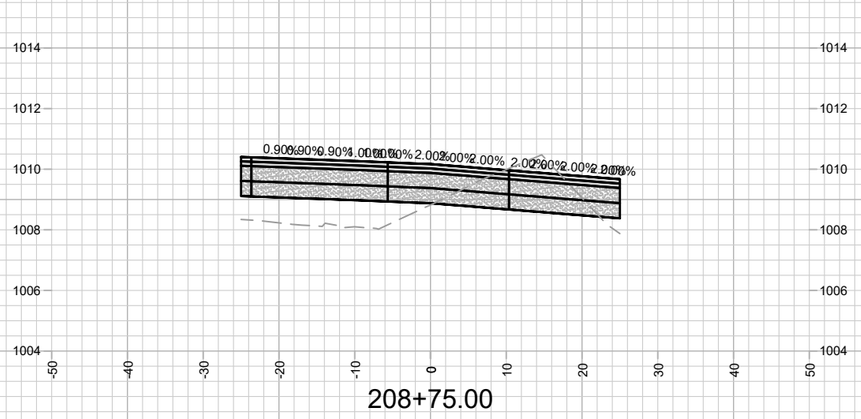












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13355

CATALYST WAY CROSS SECTIONS

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

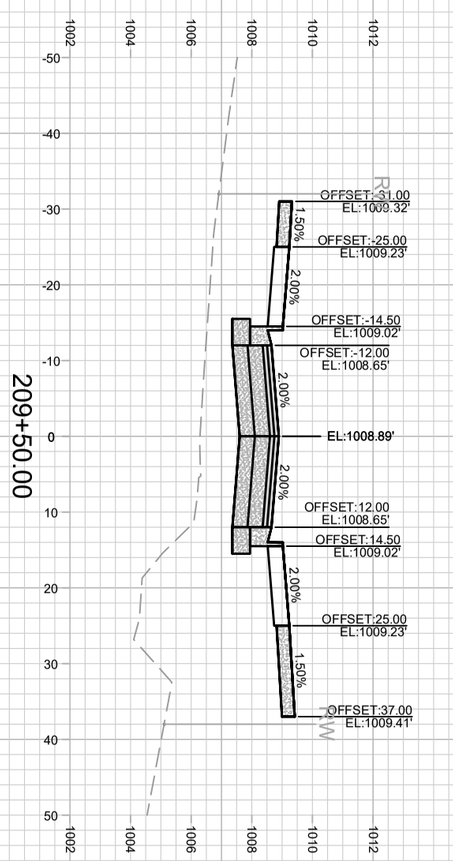
MADISON, WI

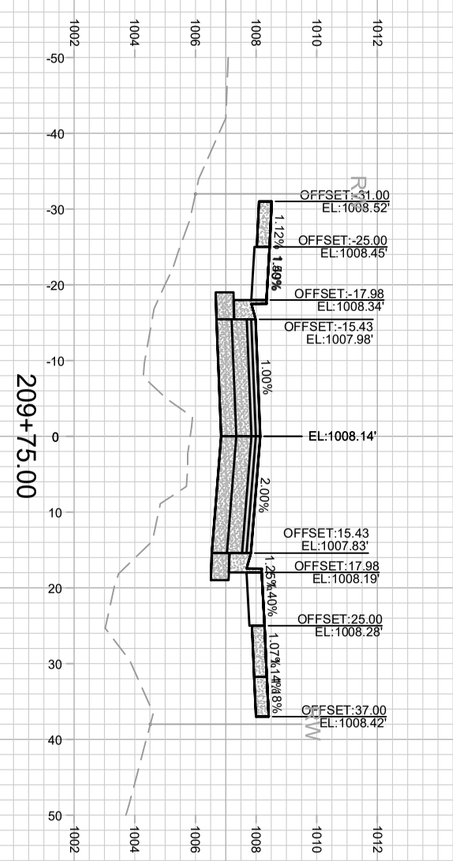
CONTRACT NO: 9003

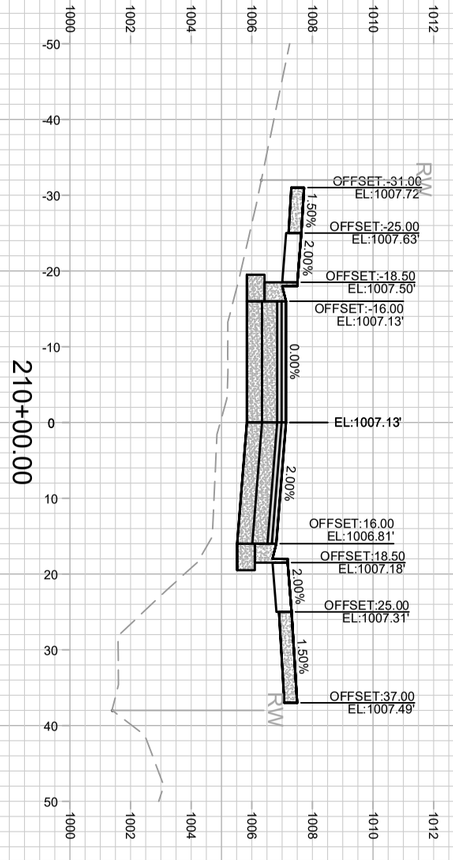
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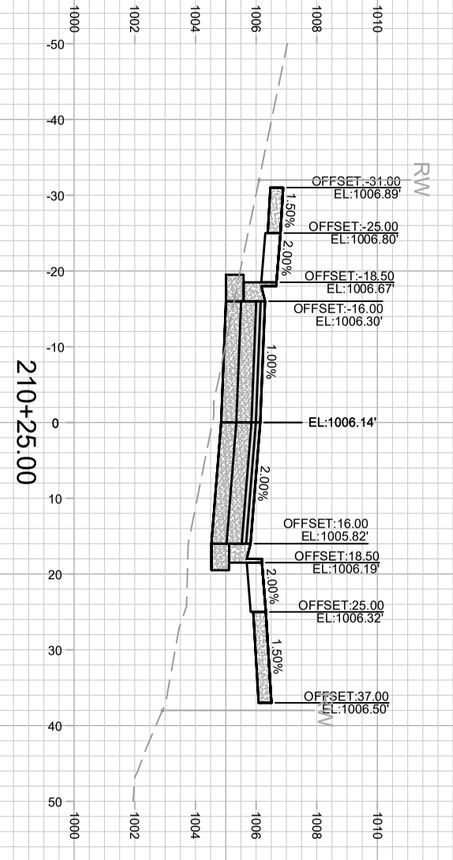
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X-15









X-16

13355

CATALYST WAY CROSS SECTIONS 13355

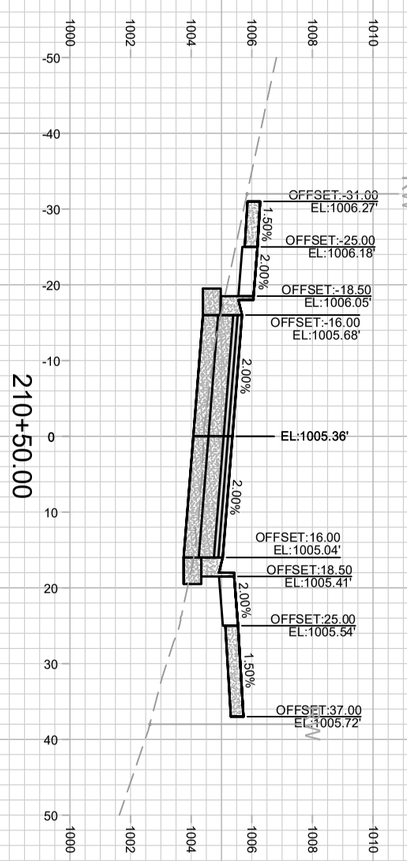
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

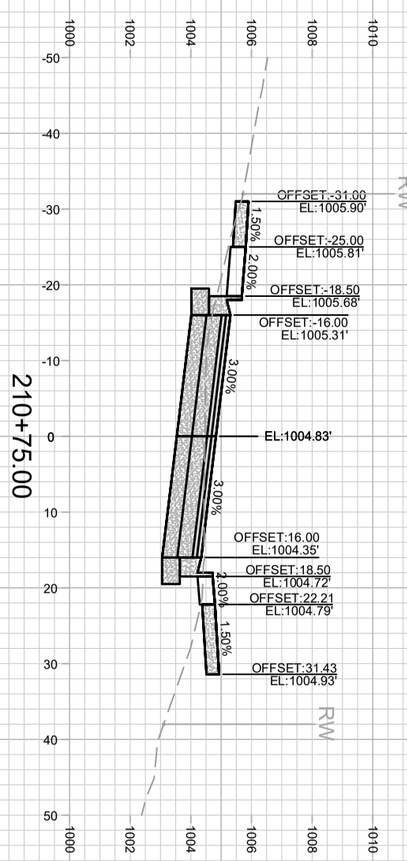
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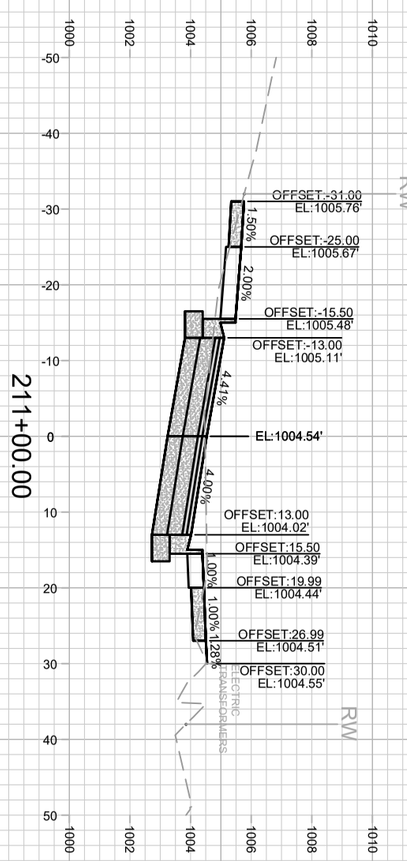
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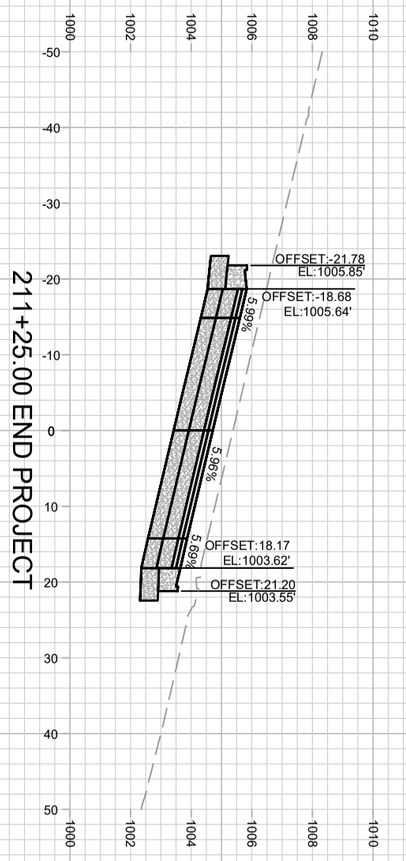
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13355 X-16









X-17

13355

CATALYST WAY CROSS SECTIONS 13355

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE MADISON, WI

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13355 X-17

301+00.00

301+75.00

302+31.16 END SW REPLACEMENT

300+75.00

301+50.00

302+25.00

300+55.65 BEGIN SW REPLACEMENT

301+25.00

302+00.00

MARK	REVISION	DATE	BY
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Date: 5/25/2022 1:59 PM
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13355

WHITNEY WAY SIDEWALK CROSS SECTIONS
UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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13355

X-18

MINERAL POINT ROAD

PRIVATE STORMWATER EASEMENT W/ROUTINE MAINTENANCE BY OWNER & W/STRUCTURAL MAINTENANCE BY CITY ENGINEERING; SEE ELEMENT DISTRICT CSM #5820234

ROUTINE MAINTENANCE - MOWING, CLEAR WEEDS & BRUSH
STRUCTURAL MAINTENANCE - MAINTAIN PIPES, REPAIR DRAINAGE WAY STRUCTURE

CONCRETE BIKE PATH, MAINTENANCE & SNOW REMOVAL BY OWNER

NOT FOR CONSTRUCTION - CITY RECORDS ONLY

PROJECT INCREASED THE SIZE OF EXISTING BUS PAD, SNOW REMOVAL BY CITY

ELEMENT WAY

WHITNEY WAY

CONCRETE BIKE PATH, MAINTENANCE & SNOW REMOVAL BY OWNER

CATALYST WAY

CONCRETE BIKE PATH, MAINTENANCE & SNOW REMOVAL BY OWNER

PRIVATE STORMWATER EASEMENT W/ROUTINE MAINTENANCE BY OWNER & W/STRUCTURAL MAINTENANCE BY CITY ENGINEERING; SEE ELEMENT DISTRICT CSM #5820234

ROUTINE MAINTENANCE - MOWING, CLEAR WEEDS & BRUSH
STRUCTURAL MAINTENANCE - MAINTAIN PIPES, REPAIR DRAINAGE WAY STRUCTURE

CHARMANY DRIVE

ENDEAVOR LANE

MAINTENANCE LEGEND:

- = NEW STREET SNOW REMOVAL BY CITY
- = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- = PRIVATE STORMWATER EASEMENT W/STRUCTURAL MAINTENANCE BY CITY ENGINEERING
- = PRIVATE OUTLOT

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13355

ELEMENT WAY & CATALYST WAY MAINTANENCE PLAN

UNIVERSITY REASEARCH PARK - ELEMENT COLLECTIVE

MADISON, WI

CONTRACT NO: 9003

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CITY OF MADISON WISCONSIN

13355

MN-1