

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

#### PLAN OF PROPOSED IMPROVEMENT

##### 501 CHARMANY DRIVE (ENDEAVOR LANE)

CITY PROJECT NO. 11847

CONTRACT NO. 8166

REVISION 4/5/19 AJZ  
- Add Sanitary Sewer Exhibits  
REVISION 10/28/19 AJZ  
- Add Private Lighting Plans

PUBLIC IMPROVEMENT PROJECT APPROVED

May 15, 2018

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

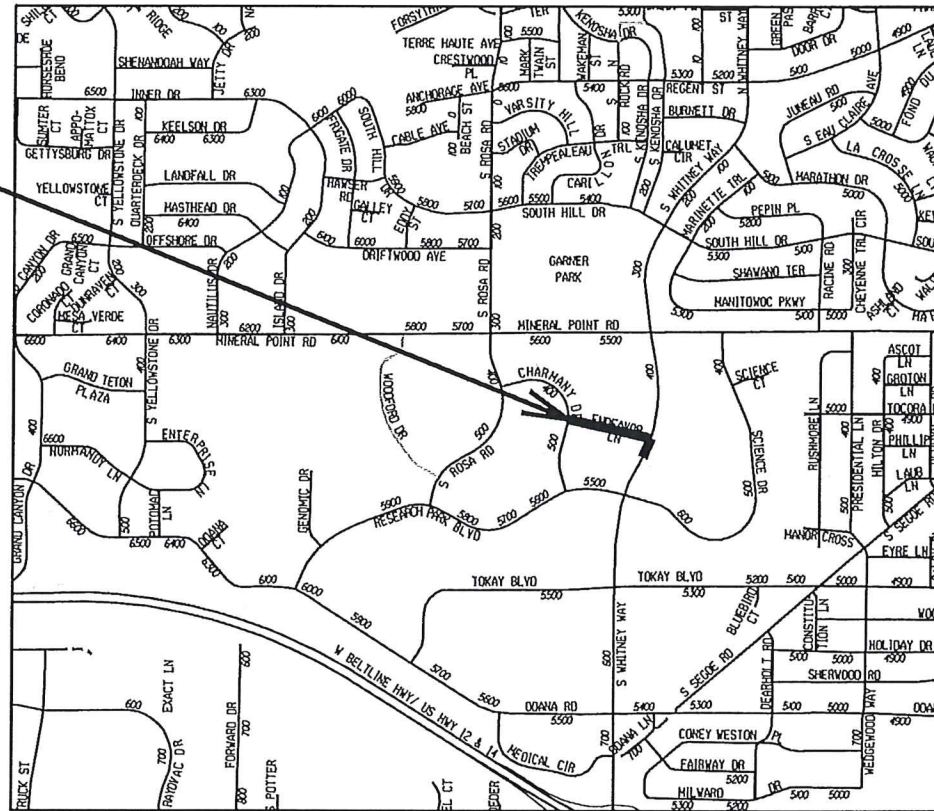
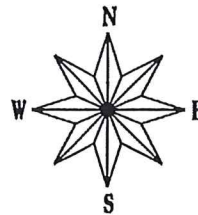
PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

  
City Engineer Date 2/28/19

#### INDEX OF SHEETS

SHEET NO.	TITLE
SHEET NO. 1	STANDARD NOTES & COMMENTS
SHEET NO. D1	TYPICAL SECTIONS
SHEET NO. D2	STORM STRUCTURE DETAIL
SHEET NO. D3	PLANTER LAYOUT AND DETAILS
SHEET NO. PLNT1-PLNT3	ENDEAVOR LANE PLAN & PROFILE
SHEET NO. PI-P2	WHITNEY WAY PLAN
SHEET NO. PL1	CHARMANY DRIVE PLAN
SHEET NO. PL2	SEWER PLAN & PROFILE
SHEET NO. U1-U3	STORM SEWER SCHEDULE
SHEET NO. U4	SANITARY SEWER EXHIBITS
SHEET NO. EX1-EX4	WATER PLAN & PROFILE
SHEET NO. W1-W2	WATER ESTIMATE OF MATERIALS
SHEET NO. W3	ELECTRICAL PLANS (STREET LIGHTS)
SHEET NO. E1-E3	ELECTRICAL PLANS (PRIVATE LIGHTING WITHIN RW)
SHEET NO. E0-01, E0-01	LANDSCAPING PLANS
SHEET NO. L1-L2	PAVEMENT MARKING PLANS
SHEET NO. PMI-PM2	

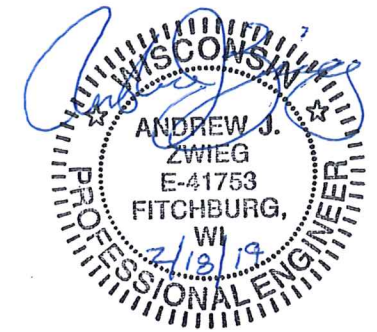
### PROJECT LOCATION



PAVEMENT MARKING  
DESIGNED BY:



STREET  
DESIGNED BY:



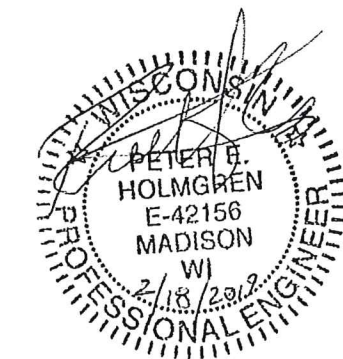
LIGHTING  
DESIGNED BY:



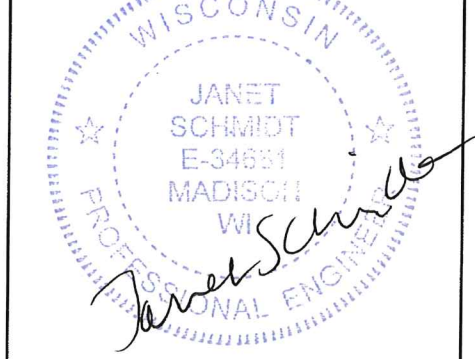
SANITARY SEWER  
DESIGNED BY:

ADJUST STRUCTURE ONLY  
2/18/19 Mark Al

WATER MAIN  
DESIGNED BY:



STORM SEWER  
DESIGNED BY:



#### CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

#### NOTES:

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

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EXISTING STREET TREES SHALL BE PROTECTED. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA BETWEEN THE CURB AND SIDEWALK AND EXTEND IT AT LEAST 5 FEET FROM BOTH SIDES OF THE TREE ALONG THE LENGTH OF THE TERRACE. NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE OUTSIDE EDGE OF A TREE TRUNK. IF EXCAVATION WITHIN 5 FEET OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTRY (266-4816) 48 HOURS PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM. TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY PRIOR TO THE START OF CONSTRUCTION. TREE PROTECTION SPECIFICATIONS CAN BE FOUND IN SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION  
-[HTTP://WWW.CITYOFMADISON.COM/BUSINESS/PWD/DOCUMENTS/STDSPESCS2013/PART1.PDF](http://www.cityofmadison.com/business/pwd/documents/stdspecs2013/part1.pdf)

CONTRACTOR SHALL CONTACT CITY FORESTRY BRAD HOFMANN BHOFMANN@CITYOFMADISON.COM OR 266-4816 AT LEAST ONE WEEK PRIOR TO PLANTING TO SCHEDULE INSPECTING THE NURSERY STOCK AND REVIEW PLANTING SPECIFICATIONS WITH THE LANDSCAPER.

ANY TREE REMOVALS THAT ARE REQUIRED FOR CONSTRUCTION WILL REQUIRE AT LEAST A 72 HOUR WAIT PERIOD BEFORE A TREE REMOVAL PERMIT CAN BE ISSUED BY FORESTRY, TO NOTIFY THE ALDER OF THE CHANGE IN THE TREE PLAN.

CONTRACTOR/DEVELOPER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO THE START OF WORK. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS APPROVED.

ANY PAVEMENT MARKINGS THAT ARE REMOVED OR DAMAGED SHALL BE REPLACED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY CITY TRAFFIC ENGINEERING.

ALL PAVEMENT WITHIN THE ENDEAVOR LANE RIGHT-OF-WAY SHALL CONSIST OF:  
1 3/4" BITUMINOUS UPPER LAYER, 4 LT 58-28 S  
1 3/4" BITUMINOUS LOWER LAYER, 4 LT 58-28 S

ALL EXISTING PAVEMENT (TRAVEL LANES) DISTURBED WITHIN THE WHITNEY WAY RIGHT-OF-WAY SHALL CONSIST OF:  
2" BITUMINOUS UPPER LAYER, 4 MT 58-28 S  
3 1/2" BITUMINOUS LOWER LAYER, 3 MT 58-28 S

THE PROPOSED LEFT TURN LANE ALONG THE WHITNEY WAY RIGHT-OF-WAY SHALL CONSIST OF:  
2" BITUMINOUS UPPER LAYER, 4 MT 58-28 S  
3 1/2" BITUMINOUS LOWER LAYER, 3 MT 58-28 S

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

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.4% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

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.

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

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

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

DAMAGE TO ANY EXISTING CURB, PAVEMENT, SIDEWALK, ETC. THAT IS TO REMAIN SHALL BE REPAIRED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY THE ENGINEER.

DEVELOPER/CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO ADJUST STRUCTURES, MANHOLES, HANDHOLES, ETC. AS NEEDED TO MATCH THE GRADE OF THE NEW PAVEMENT.

ANY WORK SHOWN ON THIS PLAN THAT IS OUTSIDE OF THE RIGHT-OF-WAY OR BEYOND THE LIMITS OF THIS PROJECT SHALL BE CONSIDERED APPROXIMATE AND NOT FOR CONSTRUCTION.

7" STAMPED & COLORED CONCRETE SPECIAL PROVISION

DESCRIPTION

THIS WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF PART 3 OF THE STANDARD SPECIFICATIONS, EXCEPT AS HEREIN AFTER AMENDED.

A SEPARATE DESIGN MIX SHALL BE PROVIDED FOR ALL AREAS TO RECEIVE INTEGRALLY COLORED CONCRETE. INTEGRALLY COLORED CONCRETE MIX(ES) SHALL NOT CONTAIN FLY ASH. CONSIDER ADMIXTURE RECOMMENDATIONS FOR CONCRETE MIX DESIGN, HOWEVER, MIX DESIGN MUST ALSO CONFORM TO THE STANDARD SPECIFICATIONS. SUBMIT THE CONCRETE MIX DESIGN TO THE CITY OF MADISON FOR REVIEW.

CONTRACTOR SHALL PROVIDE A 12\*XI2\* SAMPLE OF THE COLORED CONCRETE, WHICH WILL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO FINAL INSTALLATION. PROVIDE A MINIMUM OF 3 DAYS NOTICE TO THE ENGINEER IN ORDER TO SCHEDULE REVIEW OF THE SAMPLE.

EXCESS CONCRETE MATERIAL FROM MOCKUPS CAN BE USED ELSEWHERE PER THE ENGINEERS APPROVAL IF THE MIX DESIGN MEETS THE STANDARD REQUIREMENTS OF THE SECONDARY USE.

MATERIALS

INTEGRAL-MIX COLORED ADMIXTURE SHALL CONFORM TO THE REQUIREMENTS OF ACI 303.1, ASTM C979, ASTM C494 AND ASSHTO M194. ADMIXTURE SHALL BE A SINGLE-COMPONENT, COLORED, WATER-REDUCING, SET-CONTROLLING ADMIXTURE CONTAINING NO CALCIUM CHLORIDE WITH COLORING AGENTS THAT ARE LIME-PROOF AND ULTRA-VIOLET RESISTANT. THE ADMIXTURE SHALL BE FACTORY FORMULATED AND PACKAGED IN CUBIC YARD DOSAGE INCREMENTS, NOT MULTIPLE ADDITIVES AND PIGMENTS ADDED SEPARATELY INTO THE MIX.

THE COLOR SHALL EITHER BE BASF NATURAL BARK (MC5002) OR AN APPROVED EQUAL.

ALL SURFACES SHALL BE CURED UNIFORMLY. THE CONCRETE SHALL NEVER BE COVERED WITH PLASTIC SHEETING.

CURING COMPOUND SHALL COMPLY WITH ASTM C309 AND BE OF SAME MANUFACTURER AS COLORED ADMIXTURE, FOR USE WITH INTEGRALLY COLORED CONCRETE. ALL PLACING, FINISHING, CURING, JOINT SEALING, AND PATCHING SHALL BE IN ACCORDANCE WITH THE ADMIXTURE MANUFACTURER'S RECOMMENDATIONS.

IMPRINTING PATTERN: USE A 6\*X 6\*COBBLESTONE PATTERN.

CONSTRUCTION

ADD COLOR PIGMENT TO CONCRETE MIXTURE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND TO RESULT IN HARDENED CONCRETE COLOR CONSISTENT WITH APPROVED SAMPLES.

PROTECT ALL ADJOINING AREAS OF CONCRETE PRIOR TO POURING COLORED CONCRETE. PERFORM ANY FINISHING WORK AS NECESSARY TO PREPARE THE COLORED CONCRETE FOR STAMPING AS RECOMMENDED BY THE PATTERN MANUFACTURER.

SET STAMP PATTERN IN ACCORDANCE TO THE MANUFACTURER'S SPECIFIED METHODS. CHECK ALL DEPTHS OF IMPRINTS BY TOOL-TO-TOOL SURFACE LEVELING. PERFORM TOOLING AND FINISHING AS STAMPING TOOLS ARE REMOVED AFTER IMPRINTING. ELIMINATE ALL SQUEEZE JOINTS BETWEEN STAMPING TOOLS, IF ANY, WITH HAND TOOLS PRIOR TO CONCRETE SETTING.

JOINT THE CONCRETE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AMENDED AS FOLLOWS: SAW JOINTS SUCH THAT THE SAW JOINT FOLLOWS THE CONCRETE RECESS.

APPLY CURING COMPOUND PER MANUFACTURER'S RECOMMENDED COVERAGE RATE AND TO MEET CURING REQUIREMENTS OF THE CITY OF MADISON STANDARD SPECIFICATIONS.

7\* STAMPED & COLORED CONCRETE SHALL MATCH THE VISUAL APPEARANCE OF THE APPROVED REFERENCE SAMPLES.

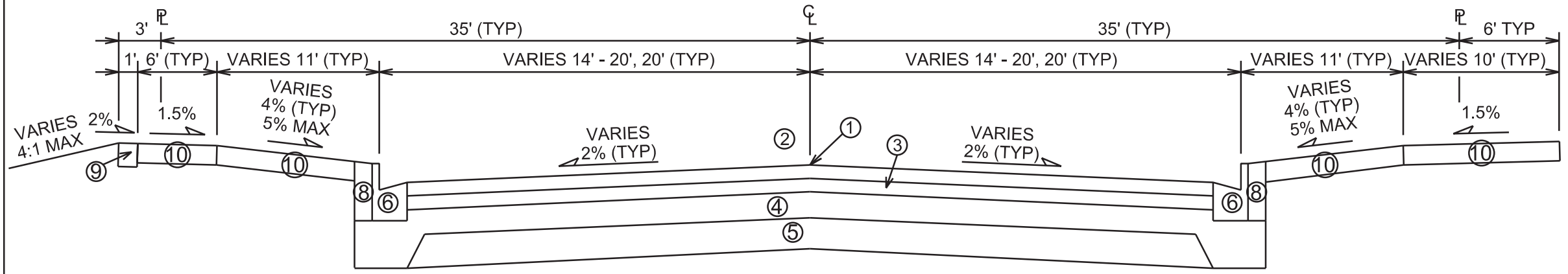
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PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

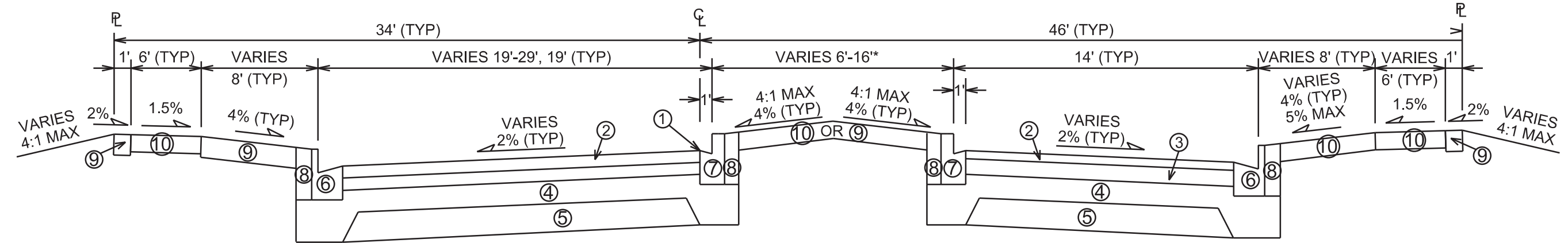
REVISION 6/20/19 AJZ  
- Whitney Way typical



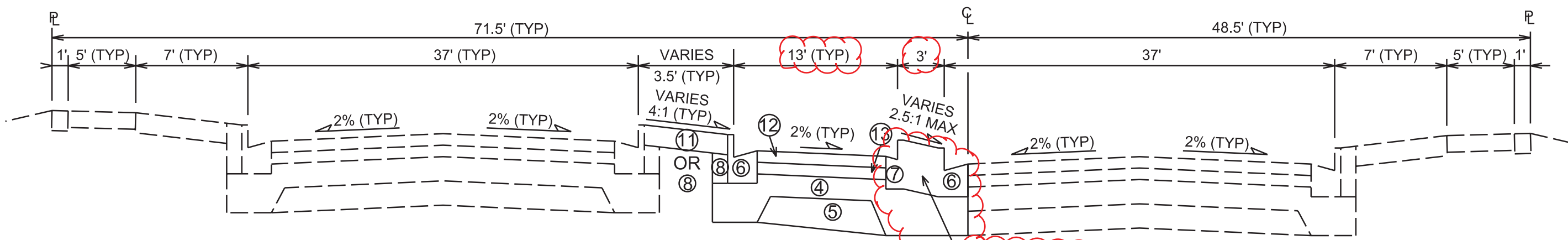
TYPICAL FINISHED SECTION  
ENDEAVOR LANE  
STA 10+49 TO STA 14+68  
STA 15+01 TO STA 15+48

- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" HMA UPPER LAYER, 4 LT 58-28 S
- ③ 1 3/4" HMA LOWER LAYER, 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ TYPE 'G' CONCRETE CURB & GUTTER
- ⑧ FILL, INCIDENTAL
- ⑨ 6" TOPSOIL, TERRACE SEED & EROSION MAT
- ⑩ 5" CONCRETE SIDEWALK
- ⑪ 7" CONCRETE SIDEWALK
- ⑫ 2" HMA UPPER LAYER, 4 MT 58-28 S
- ⑬ 3 1/2" HMA LOWER LAYER, 3 MT 58-28 S

GENERAL NOTES:  
1. SEE PLAN & PROFILES FOR TOP OF CURB ELEVATIONS.  
2. TYPICAL SECTIONS NOT TO SCALE.  
\*5" CONCRETE SIDEWALK STA 14+68 TO STA 15+01 RT & STA 15+48 TO STA 16+02. 6" TOPSOIL, SEED & EMAT STA 16+02 TO STA 18+80



TYPICAL FINISHED SECTION  
ENDEAVOR LANE  
STA 14+68 TO STA 15+01  
STA 15+48 TO STA 18+80



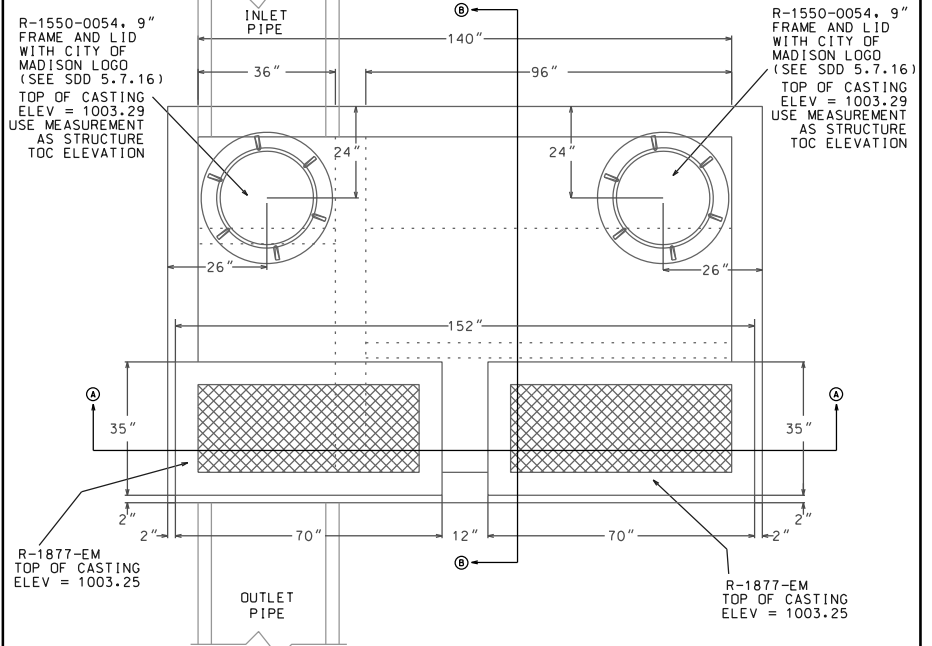
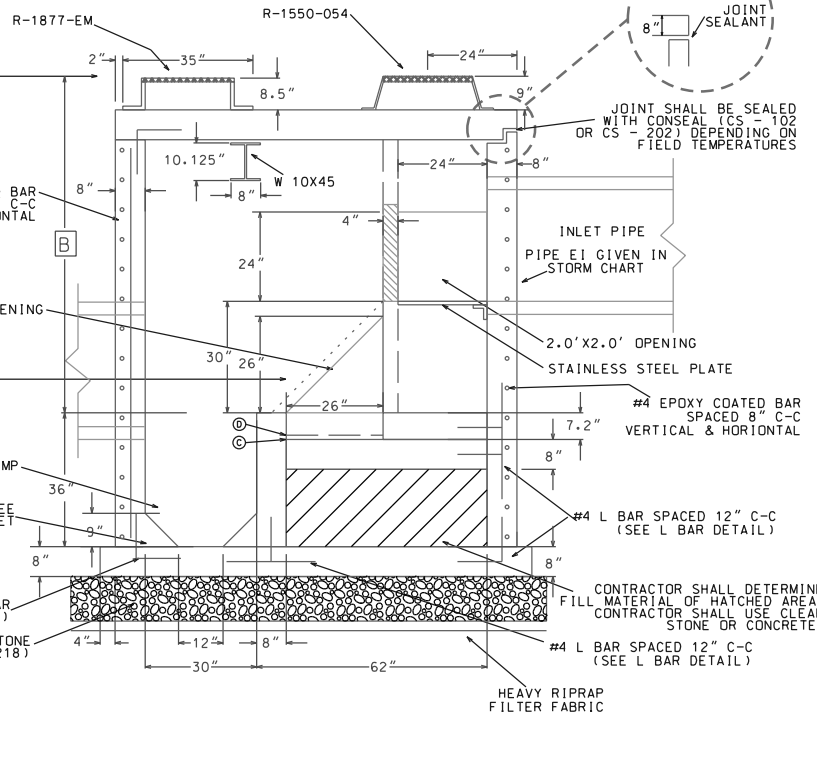
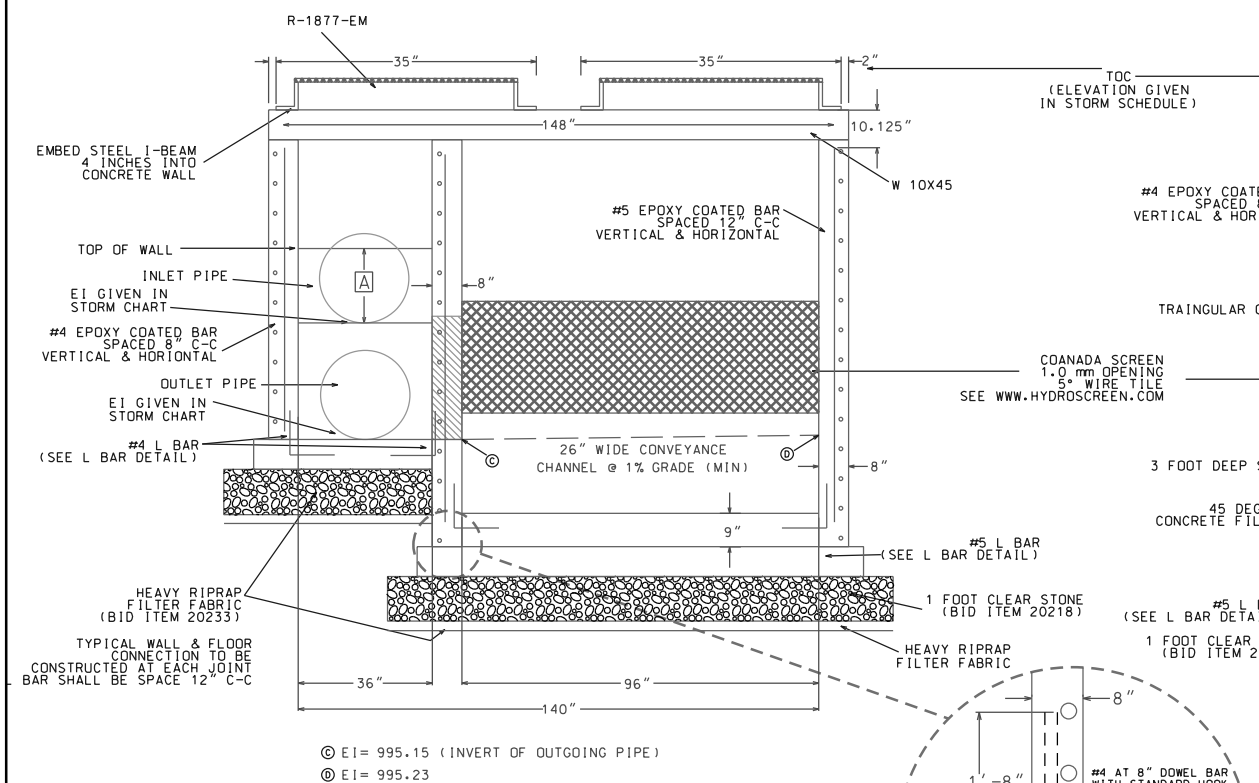
TYPICAL FINISHED SECTION  
WHITNEY WAY LEFT TURN LANE  
STA 2+81 TO STA 6+50

POUR CURB & GUTTER AND  
TERRACE BETWEEN  
AS MONOLITHIC

PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SECTION A-A

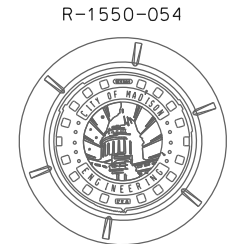
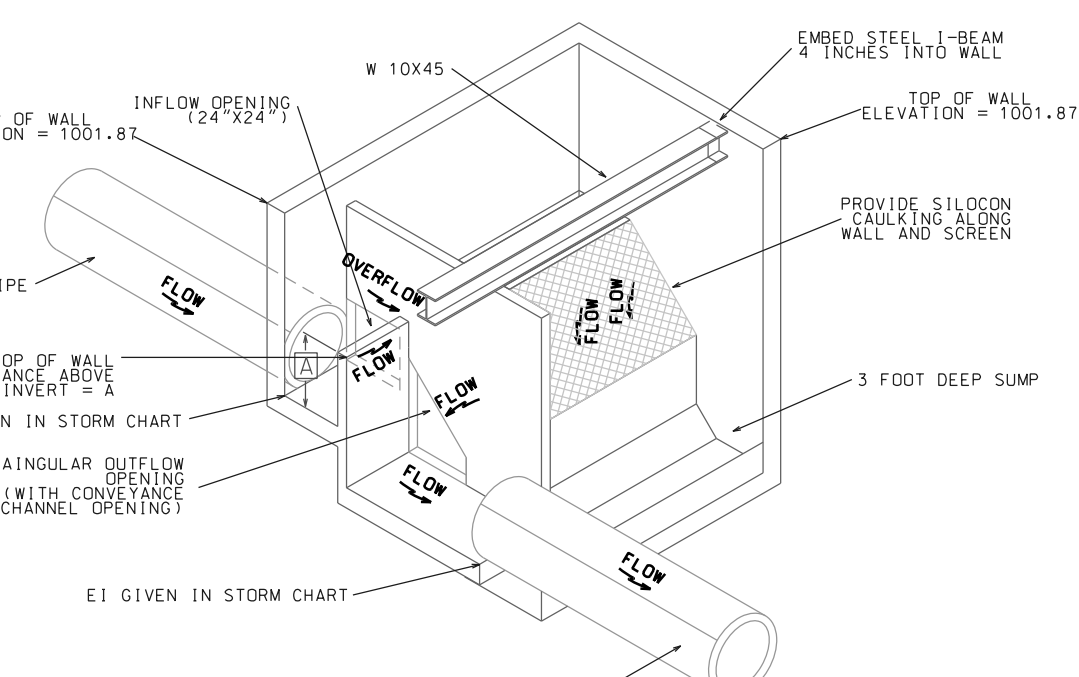
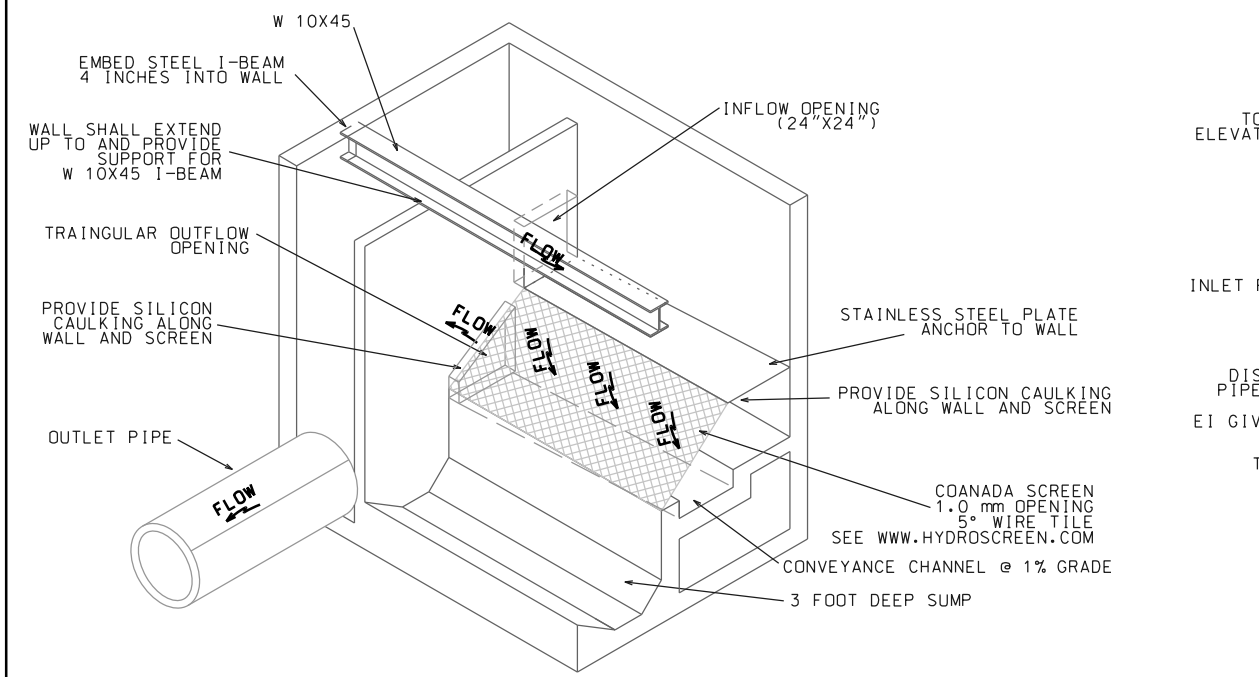
SECTION B-B



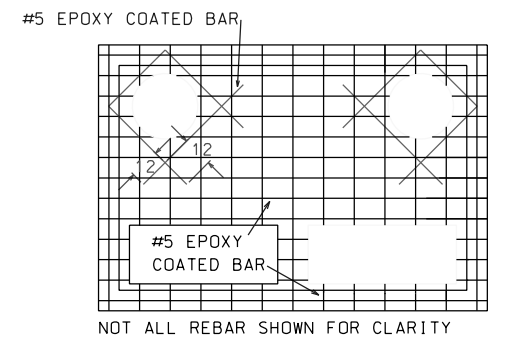
PIPE SIZE	DIMENSION A	DIMENSION B
30"	20"	87" (MIN) 90.48' AS DESIGNED

NE ISOMETRIC VIEW  
(SIDEWALLS & ROOF NOT SHOWN)

NW ISOMETRIC VIEW  
(SIDEWALLS & ROOF NOT SHOWN)



ROOF REINFORCEMENT



- REBAR REINFORCEMENT NOTES:
1. EPOXY COATED REBARS SHALL BE USED IN ALL CASES
  2. #5 REBARS PLACED 9" ON CENTER EACH WAY WITH 2" CLEAR FROM BOTTOM OF SLAB
  3. ROOF THICKNESS SHALL BE 8" MINIMUM
  4. ALL WALLS ARE 8" THICK
  5. WALL REINFORCEMENT #4 AT 8" ON CENTER EACH WAY
  6. FLOOR REINFORCEMENT #4 AT 12" ON CENTER EACH WAY

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



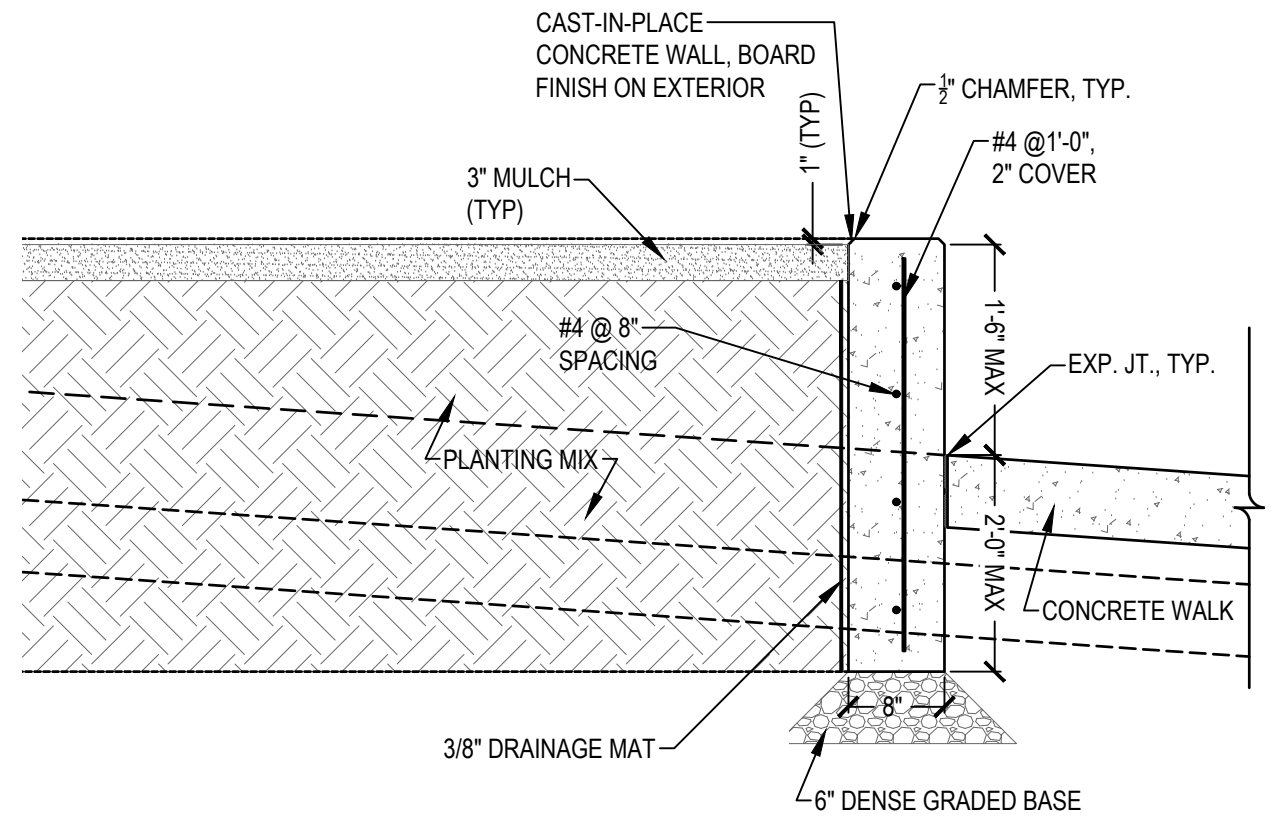




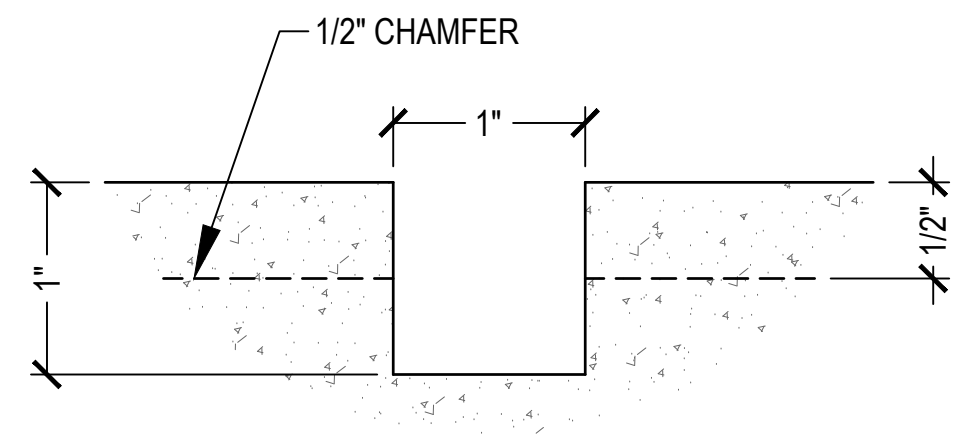


**SMITHGROUP**

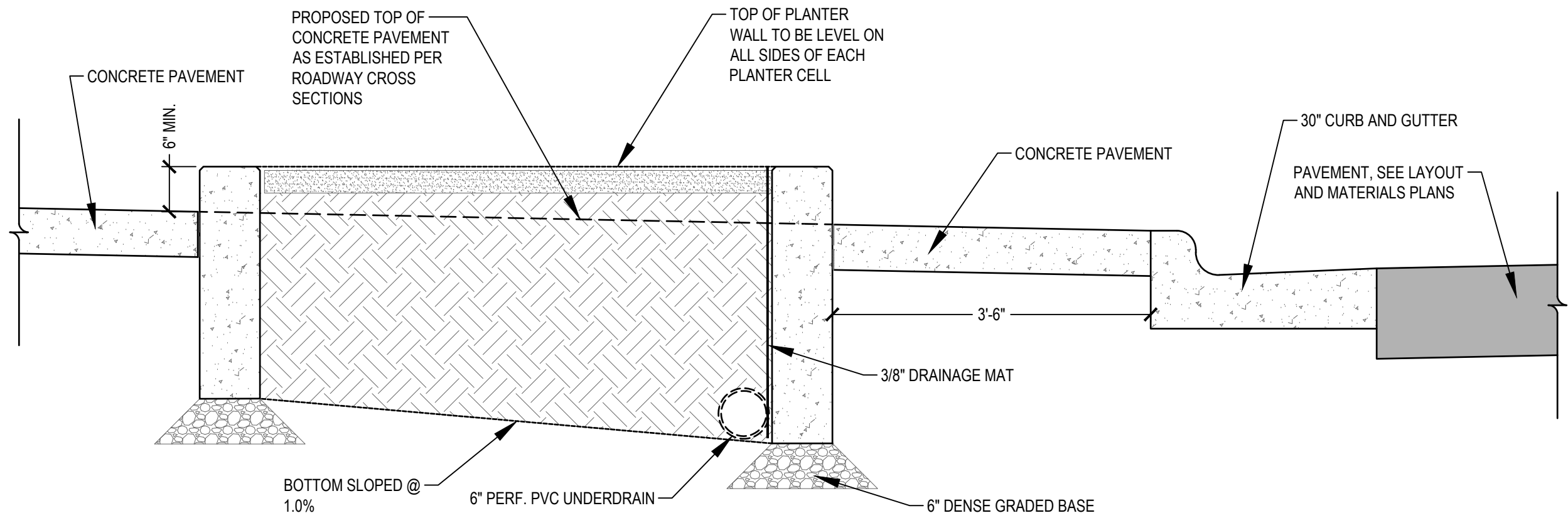
44 EAST MIFFLIN STREET  
SUITE 500  
MADISON, WI 53703  
608.251.1177  
www.smithgroup.com



1 TYPICAL PLANTER ENLARGEMENT SCALE: 1-1/2"=1'-0"



3 RECESSED CHAMFER DETAIL SCALE: 1"-1/2"



2 TYPICAL PLANTER CROSS SECTION SCALE: 1-1/2"=1'-0"

ISSUED FOR	REV	DATE

SEALS AND SIGNATURES

KEY PLAN

DRAWING TITLE  
**PLANTER LAYOUT  
AND DETAILS**

SCALE 10235.000

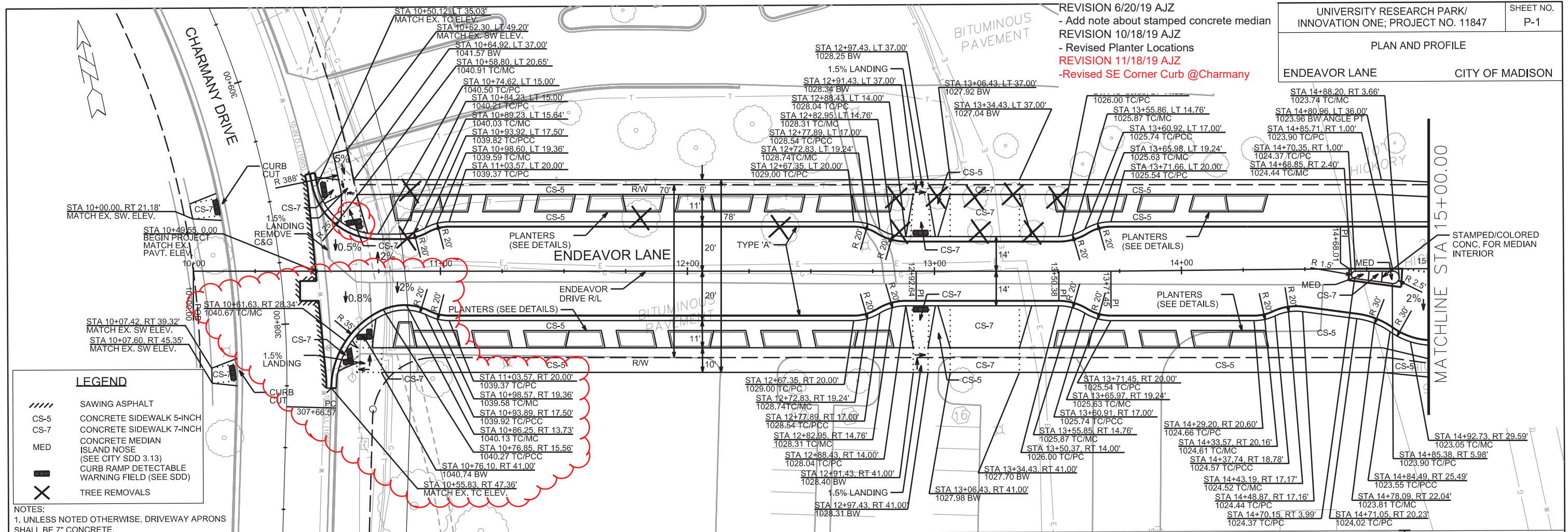
PROJECT NUMBER

**PLNT-3**

DRAWING NUMBER

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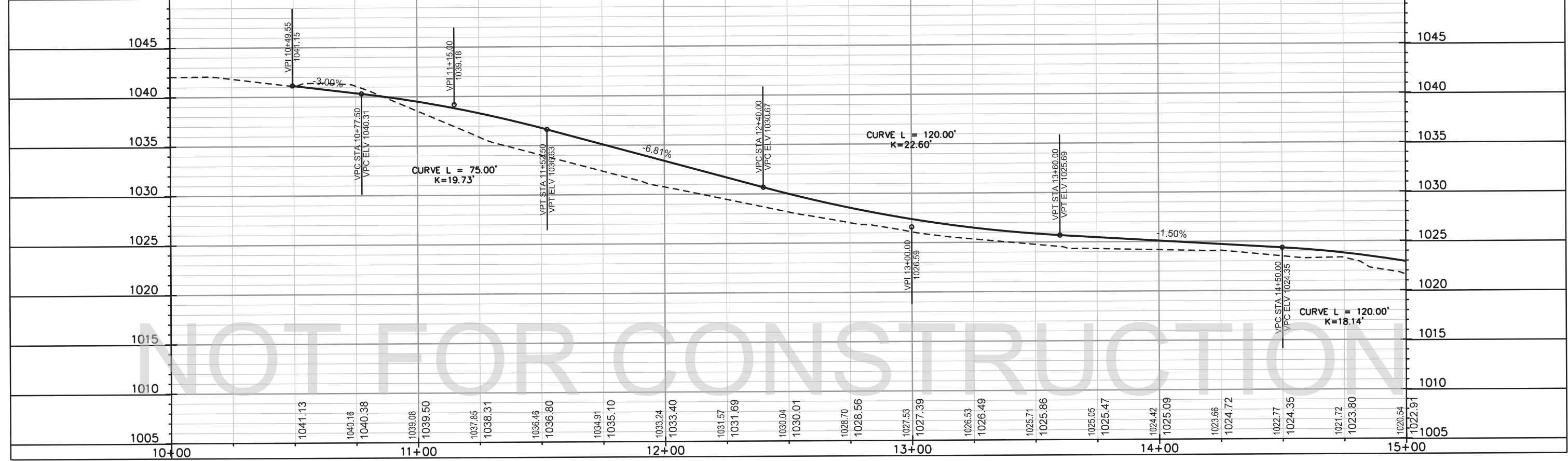
REVISION 4/19/19 AJZ  
 - Revised Planter Locations  
 REVISION 6/20/19 AJZ  
 - Add note about stamped concrete median  
 REVISION 10/18/19 AJZ  
 - Revised Planter Locations  
 REVISION 11/18/19 AJZ  
 - Revised SE Corner Curb @Charmany



**LEGEND**

	SAWING ASPHALT
	CONCRETE SIDEWALK 5-INCH
	CONCRETE SIDEWALK 7-INCH
	CONCRETE MEDIAN
	ISLAND NOSE (SEE CITY SDD 3.13)
	CURB RAMP DETECTABLE
	WARNING FIELD (SEE SDD)
	TREE REMOVALS

NOTES:  
 1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.



NOT FOR CONSTRUCTION

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

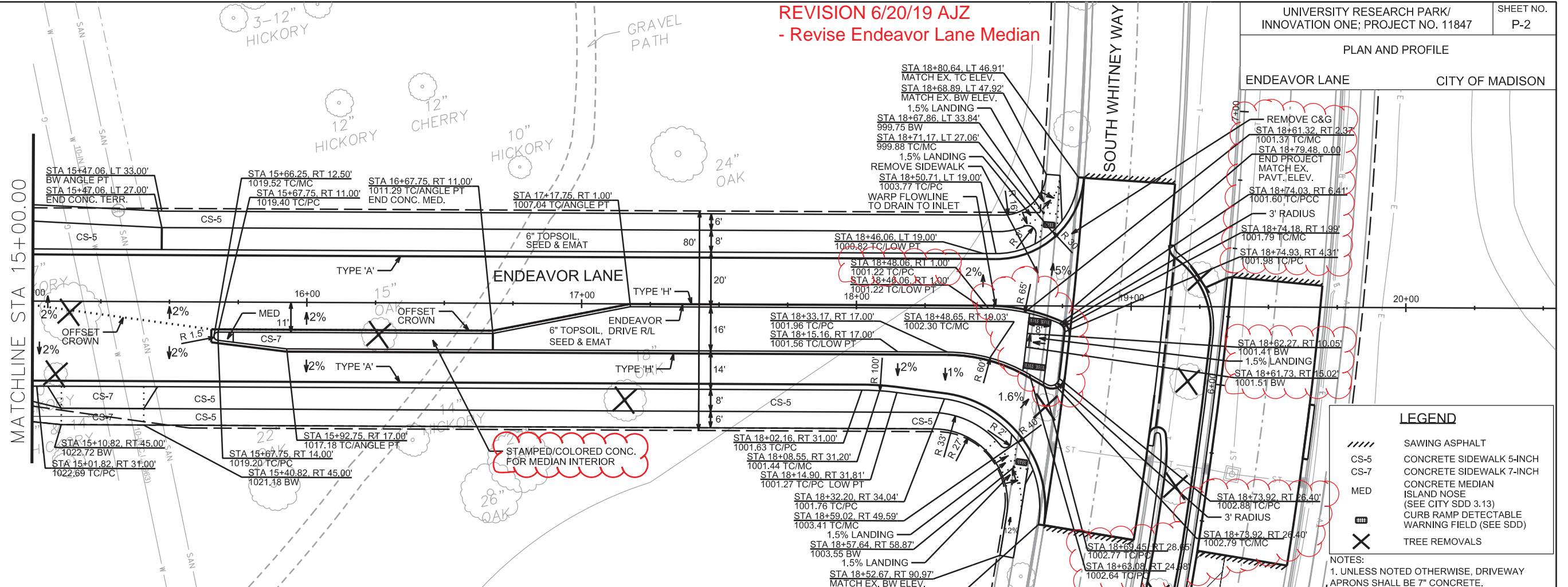
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**REVISION 6/20/19 AJZ**  
**- Revise Endeavor Lane Median**

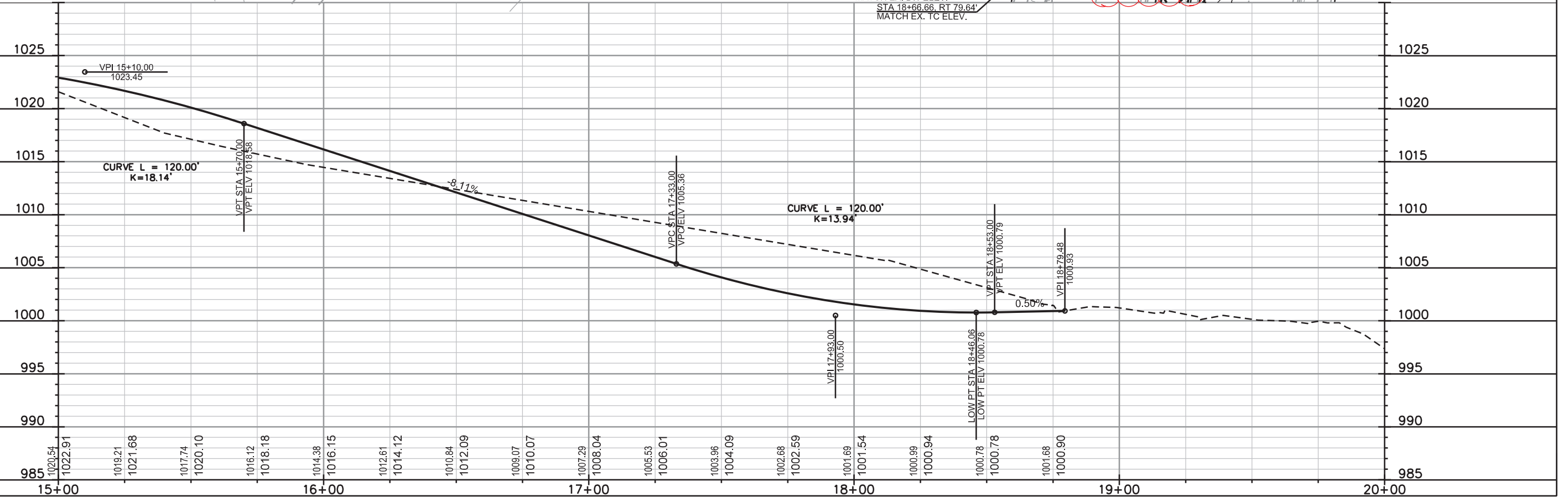
PLAN AND PROFILE

ENDEAVOR LANE CITY OF MADISON



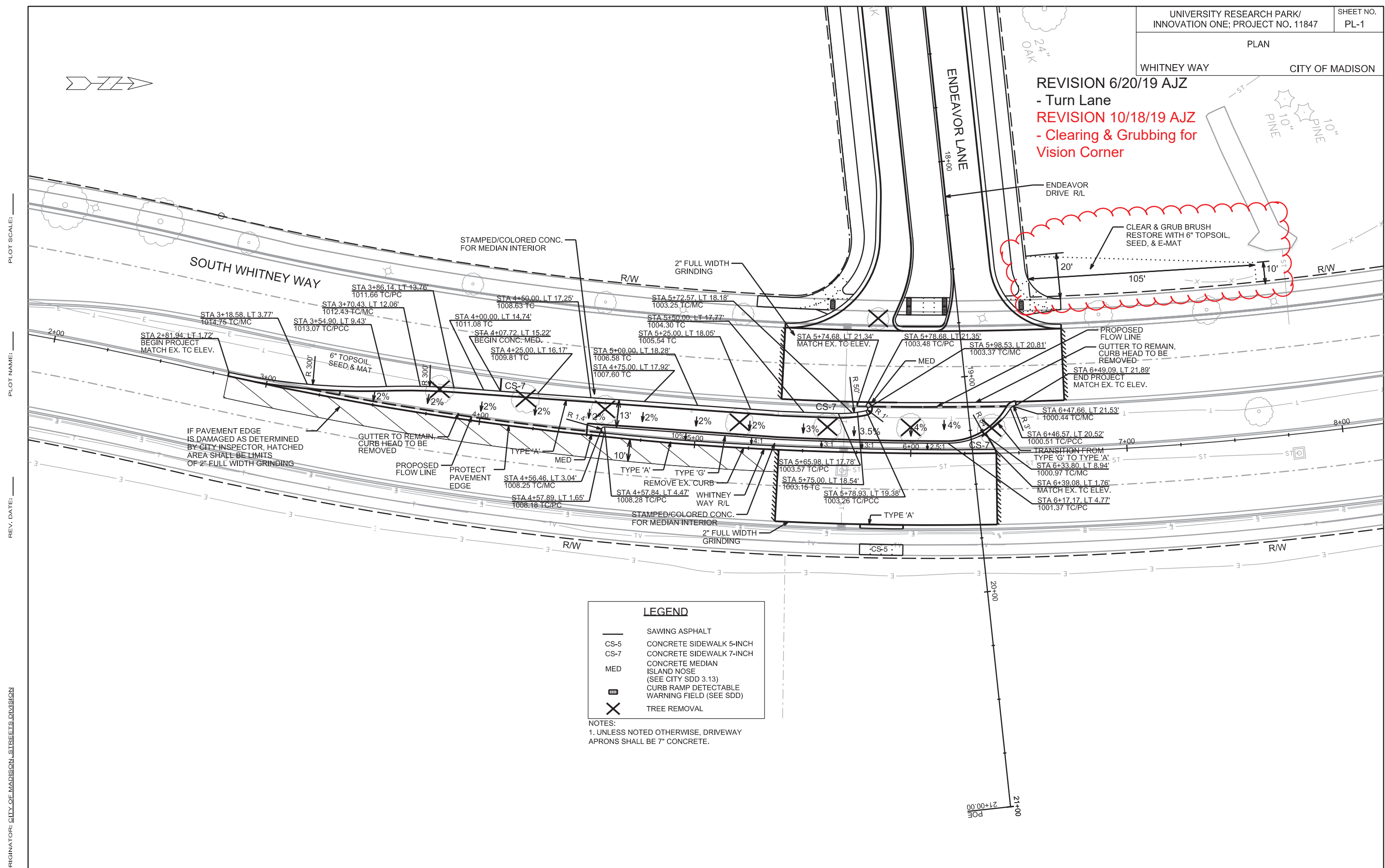
**LEGEND**

	SAWING ASPHALT
	CONCRETE SIDEWALK 5-INCH
	CONCRETE SIDEWALK 7-INCH
	CONCRETE MEDIAN
	ISLAND NOSE (SEE CITY SDD 3.13)
	CURB RAMP DETECTABLE
	WARNING FIELD (SEE SDD)
	TREE REMOVALS



PLOT SCALE: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISION 6/20/19 AJZ  
- Turn Lane  
REVISION 10/18/19 AJZ  
- Clearing & Grubbing for  
Vision Corner



**LEGEND**

- SAWING ASPHALT
- CS-5 CONCRETE SIDEWALK 5-INCH
- CS-7 CONCRETE SIDEWALK 7-INCH
- MED CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
- ▨ CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
- ✕ TREE REMOVAL

NOTES:  
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.

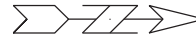
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PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



REVISION 4/5/19 AJZ  
- Added Plan Note

UNIVERSITY RESEARCH PARK/ INNOVATION ONE; PROJECT NO. 11847	SHEET NO. PL-2
PLAN	
CHARMANY DRIVE	CITY OF MADISON



**LEGEND**

—	SAWING ASPHALT
CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
MED	CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
■	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
X	TREE REMOVAL

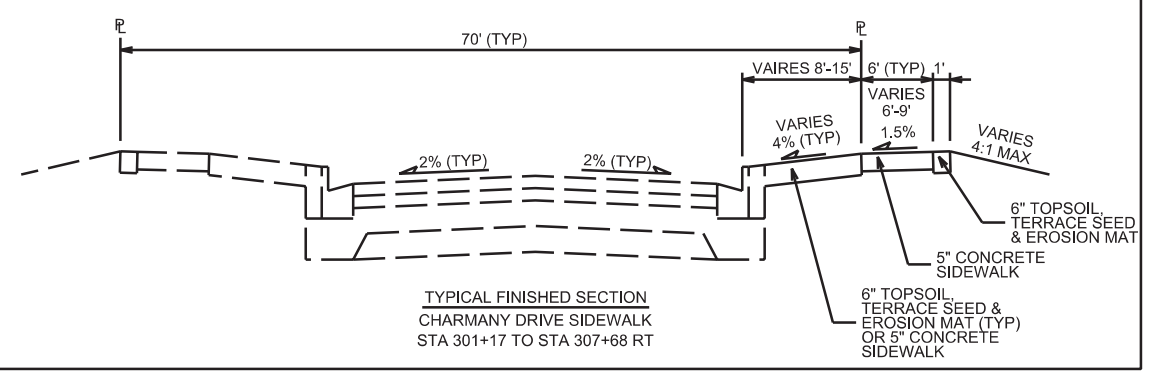
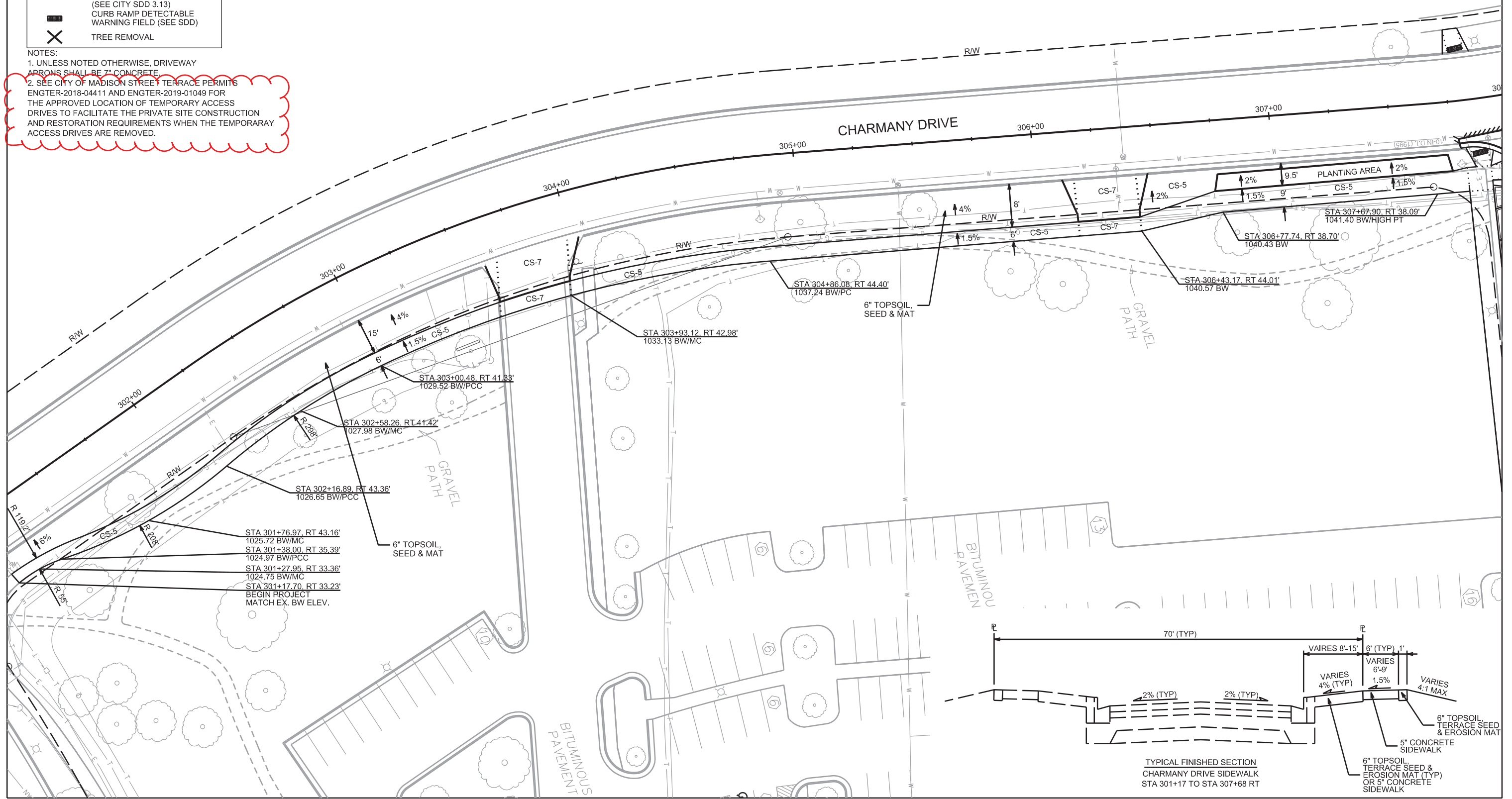
NOTES:  
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.  
2. SEE CITY OF MADISON STREET TERRACE PERMITS ENGT-2018-04411 AND ENGT-2019-01049 FOR THE APPROVED LOCATION OF TEMPORARY ACCESS DRIVES TO FACILITATE THE PRIVATE SITE CONSTRUCTION AND RESTORATION REQUIREMENTS WHEN THE TEMPORARY ACCESS DRIVES ARE REMOVED.

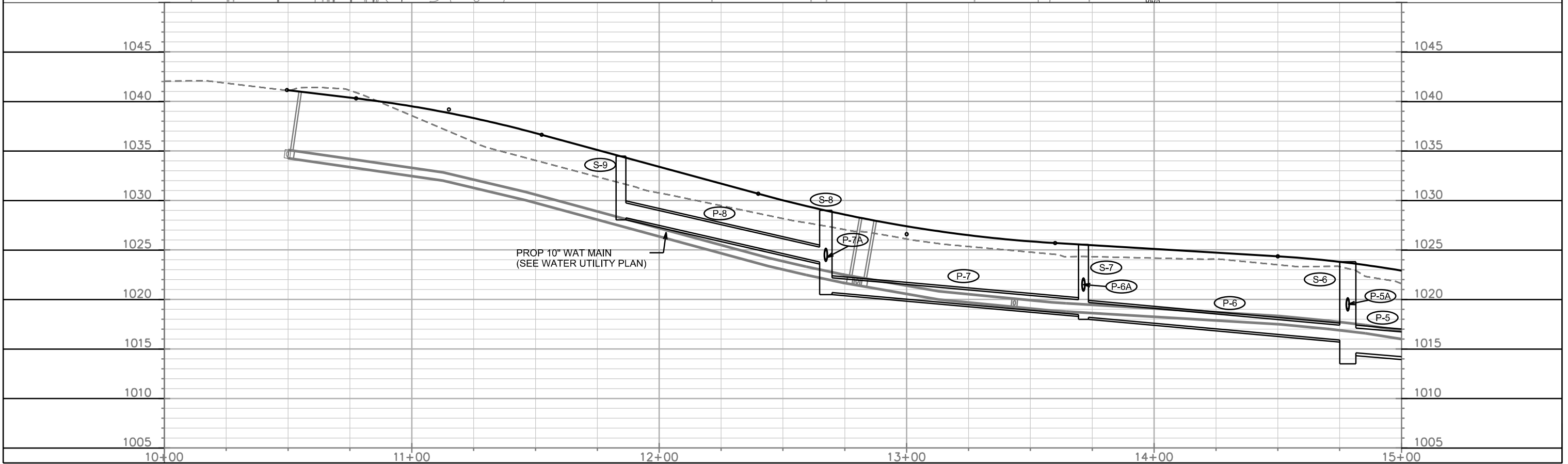
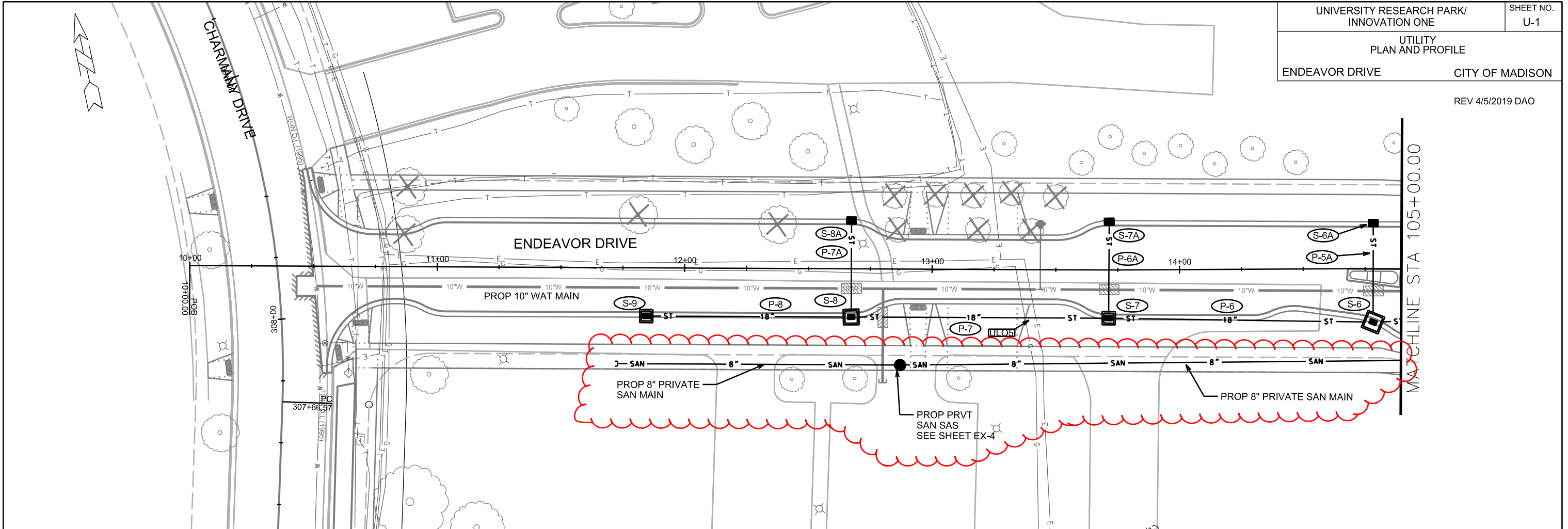
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





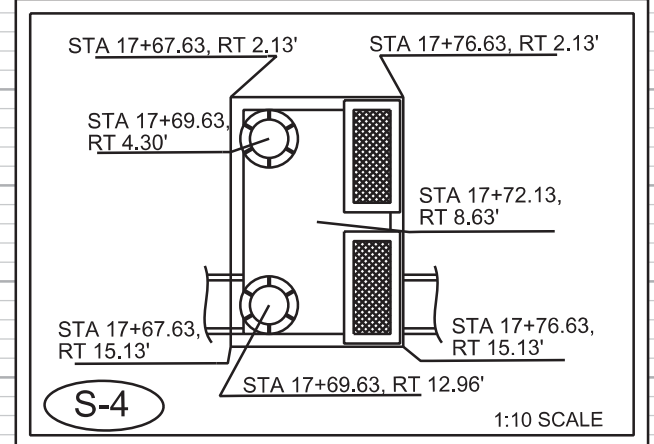
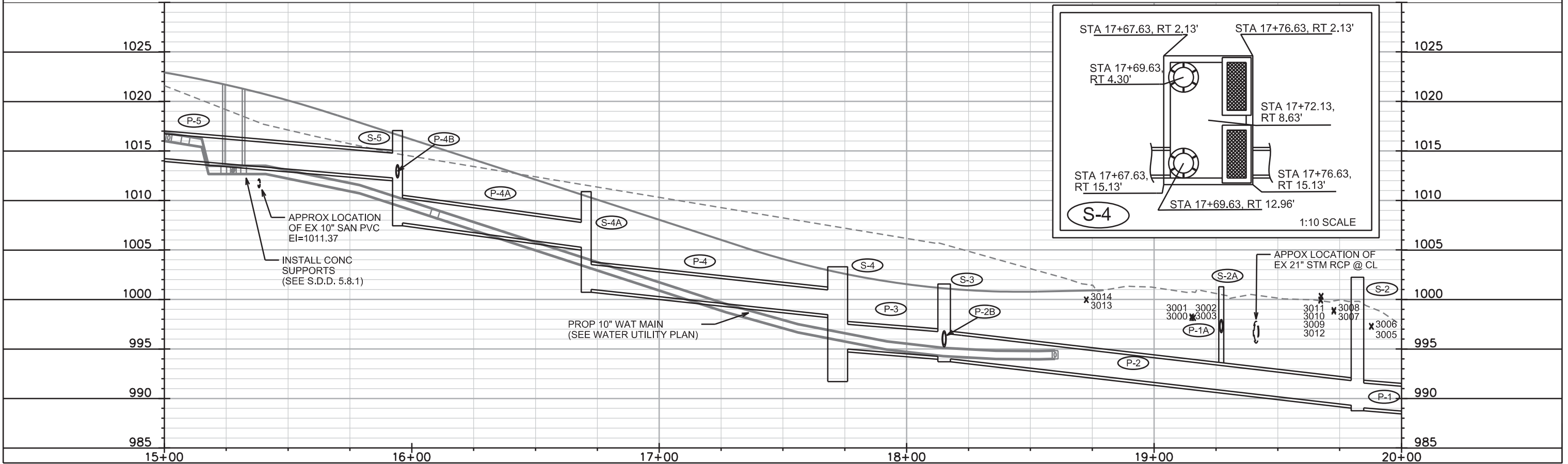
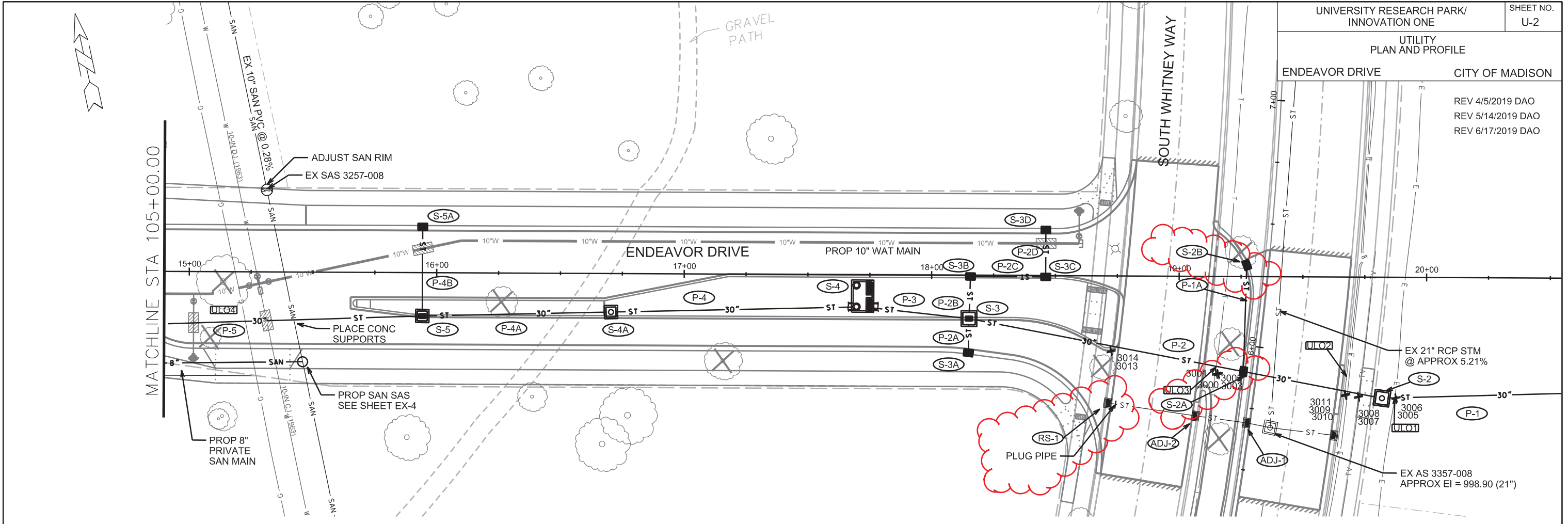
PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



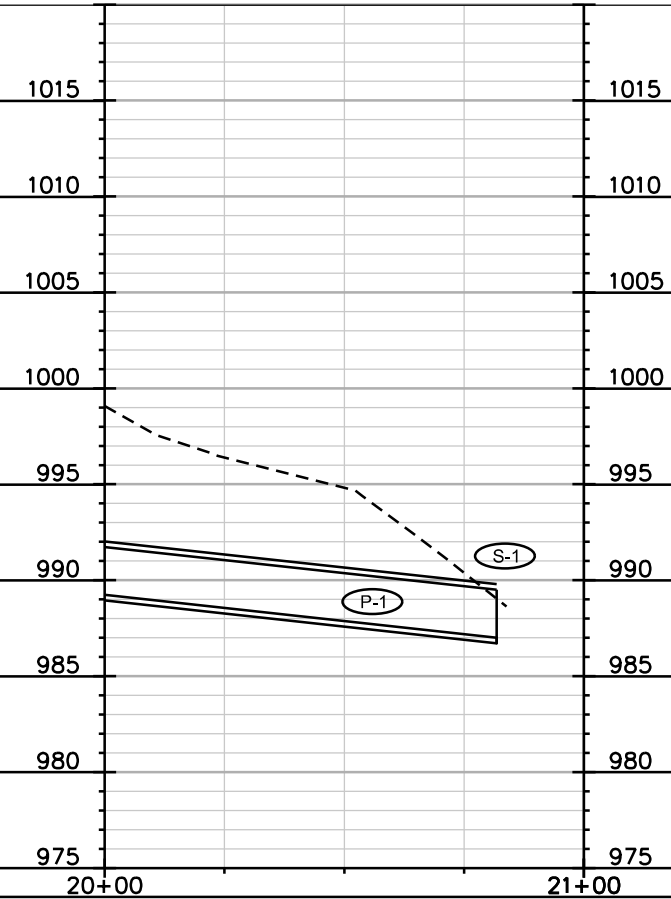
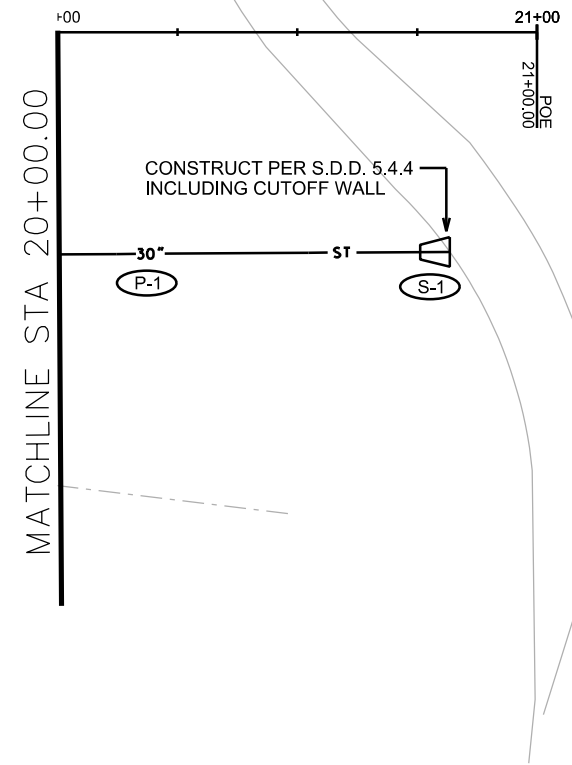


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# STORM SEWER SCHEDULE

\* REV 5/14/2019 DAO  
 \*\* REV 6/17/2019 DAO

UNIVERSITY RESEARCH PARK/ INNOVATION ONE	SHEET NO. U-4
STORM SEWER SCHEDULE	
PROJ #11847	CITY OF MADISON

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ENDEAVOR LN</b>							
S-1	20+81.80	RT-45.79	30" AE W/ GATE	-	987.00	-	
* S-2	19+82.17	RT-48.88	5X5 SAS	1001.38	989.16	12.22	W/1550-0054
** S-2A	19+26.65	RT-38.45	SADDLED H TYPE 2	1001.28	993.60	7.68	W/3067-7004-V; (5)
** S-2B	19+27.76	RT-4.86	H INLET	1000.91	997.41	3.50	W/3067-7004-V; (5)
** S-3	18+15.16	RT-17.00	5X5 SAS	1001.56	994.15	7.41	LP; W/3067-7004-VB; (5)
S-3A	18+14.96	RT-31.32	H INLET	1001.27	996.27	5.00	LP; W/3067-7004-VB
** S-3B	18+15.69	RT-1.00	H INLET	1001.55	996.63	4.92	W/3067-7004-V; (5)
** S-3C	18+46.06	RT-1.00	H INLET	1001.22	997.15	4.07	LP; W/3067-7004-VB; (5)
S-3D	18+46.06	LT-18.50	H INLET	1000.82	997.42	3.40	LP; W/3067-7004-VB
S-4	17+72.13	RT-8.63	SC TR DEVICE	1003.29	995.15	8.14	FP; (1)
S-4A	16+70.47	RT-15.56	4X4 SAS	1010.88	1001.12	9.76	FP; W/1550-0054
** S-5	15+94.25	RT-17.00	4X4 SAS	1017.05	1007.87	9.18	FP; W/3067-7004-V; (5)
S-5A	15+94.25	LT-18.50	H INLET	1016.65	1013.15	3.50	W/3067-7004-V
S-6	14+78.27	RT-21.58	6X6 SAS	1023.81	1013.50	10.31	W/3067-7004-V; (2)
S-6A	14+78.18	LT-18.50	H INLET	1023.75	1020.25	3.50	W/3067-7004-V
S-7	13+71.45	RT-19.50	4X4 SAS	1025.54	1018.29	7.25	W/3067-7004-V
S-7A	13+71.66	LT-19.50	H INLET	1025.54	1022.04	3.50	W/3067-7004-V
S-8	12+67.35	RT-19.50	5X5 SAS	1029.00	1020.80	8.20	W/3067-7004-V; (3)
S-8A	12+67.35	LT-19.50	H INLET	1029.00	1025.50	3.50	W/3067-7004-V
S-9	11+84.54	RT-19.50	4X4 SAS	1034.47	1028.47	6.00	W/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
<b>ENDEAVOR LN</b>										
* P-1	S-1	S-2	987.00	989.16	100	97	2.23%	30"	RCP	
P-1A	S-2A	S-2B	996.81	997.41	43	40	1.49%	12"	RCP	NCM
* P-2	S-2	S-3	989.16	994.15	170	165	3.02%	30"	RCP	
P-2A	S-3	S-3A	995.65	996.27	14	10	6.02%	12"	RCP	
P-2B	S-3	S-3B	995.40	996.63	17	14	9.11%	15"	RCP	
P-2C	S-3B	S-3C	996.88	997.15	29	27	0.99%	12"	RCP	
P-2D	S-3C	S-3D	997.25	997.42	18	17	1.00%	12"	RCP	
P-3	S-3	S-4	994.15	995.15	43	37	2.72%	30"	RCP	
P-4	S-4	S-4A	998.25	1001.12	102	96	2.99%	30"	RCP	
P-4A	S-4A	S-5	1005.13	1007.87	76	72	3.81%	30"	RCP	NCM
P-4B	S-5	S-5A	1012.44	1013.15	36	33	2.15%	12"	RCP	NCM
P-5	S-5	S-6	1012.19	1014.75	116	111	2.31%	30"	RCP	NCM
P-5A	S-6	S-6A	1019.00	1020.25	40	36	3.49%	12"	RCP	NCM
P-6	S-6	S-7	1015.75	1018.29	107	102	2.50%	18"	RCP	
P-6A	S-7	S-7A	1021.00	1022.04	39	36	2.89%	12"	RCP	NCM
P-7	S-7	S-8	1018.39	1020.80	104	100	2.42%	18"	RCP	
P-7A	S-8	S-8A	1024.00	1025.50	39	36	4.23%	12"	RCP	NCM
P-8	S-8	S-9	1023.50	1028.47	83	78	6.35%	18"	RCP	

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>SEE 3005, 3006</b>				
* ULO1	19+87.66	RT-46.40	ELEC	<b>SEE 3007,3008, 3009, 3010, 3011</b>
* ULO2	19+68.29	RT-46.30	ELEC/TEL	<b>SEE 3000, 3001, 3002, 3003</b>
* ULO3	19+15.14	RT-36.25	TEL	
ULO4	15+22.76	RT-20.01	GAS	
ULO5	13+39.45	RT-19.50	GAS/ELEC	
* 3000	19+15.19	RT-39.54	FIBER	TOP @ 998.27
* 3001	19+15.29	RT-39.11	FIBER	TOP @ 998.13
* 3002	19+16.05	RT-39.25	FIBER	TOP @ 998.17
* 3003	19+15.97	RT-39.68	FIBER	TOP @ 998.14
* 3005	19+87.82	RT-48.98	POWER	TOP @ 997.32
* 3006	1987+91.00	RT-48.61	POWER	TOP @ 997.24
* 3007	19+72.66	RT-48.59	FIBER	TOP @ 998.79
* 3008	19+72.76	RT-48.11	FIBER	TOP @ 998.92
* 3009	19+67.57	RT-47.38	POWER	TOP @ 1000.27
* 3010	19+67.54	RT-47.85	POWER	TOP @ 1000.35
* 3011	19+67.40	RT-47.33	POWER	TOP @ 999.88
* 3012	19+67.39	RT-47.92	POWER	TOP @ 999.98
* 3013	18+72.59	RT-30.70	POWER	TOP @ 999.97
* 3014	18+72.72	RT-30.16	POWER	TOP @ 999.96

## ADJUST/REMOVE STORM STRUCTURES

STRUC. NO.	TYPE	STATION	LOCATION (OFFSET)	TOP OF CASTING	PROP TOC	ADJ (FT)	NOTES
<b>S WHITNEY WAY</b>							
ADJ-1	IN 3357-011	5+68.98	LT-1.26	1002.45	1002.44	-0.01	
ADJ-2	IN 3357-010	5+68.88	LT-21.55	1003.69	1003.03	-0.66	
** ADJ-3	IN 3357-009	5+69.00	LT-58.02	1003.27	1003.30	0.03	(4) TO BE REMOVED (RS-1)
** RS-1	IN 3357-009	5+69.00	LT-58.02				PLUG PIPE

**NOTE:** 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.

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.

## SPECIFIC NOTES

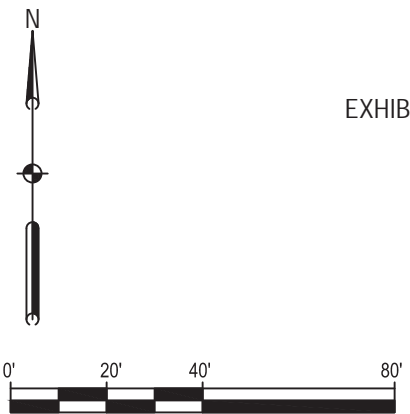
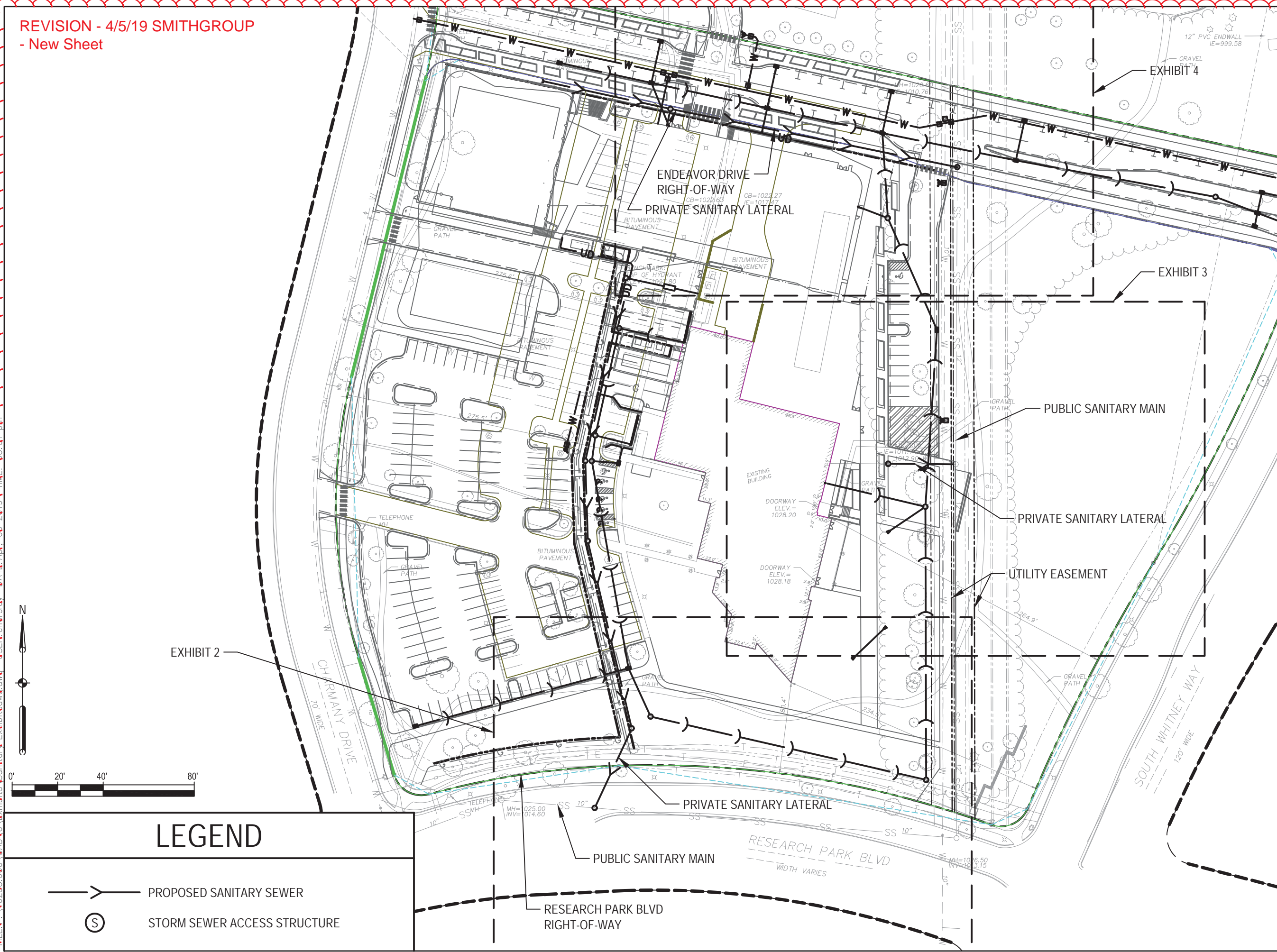
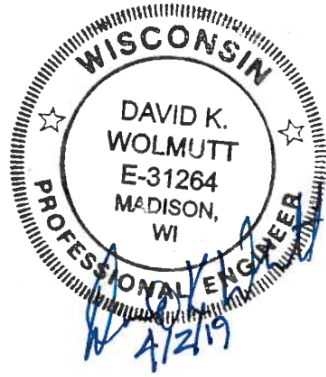
- (1) STA & LOC OF CENTER OF STRUCTURE GIVEN; SEE DETAIL SHEET D-1 SCREEN TREATMENT DEVICE
- (2) PROP PRVT CONNECTION 30" RCP @ EI=1030.50 (S)
- (3) PROP PRVT CONNECTION 18" RCP @ EI=1020.90 (S)
- (4) REPLACE EXISTING CASTING WITH R-3067-7009 FOR MOUNTABLE CURB
- \*\* (5) STA OFFSET PROVIDED IS AT FACE OF CURB



REVISION - 4/5/19 SMITHGROUP  
- New Sheet

**SMITHGROUP**

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



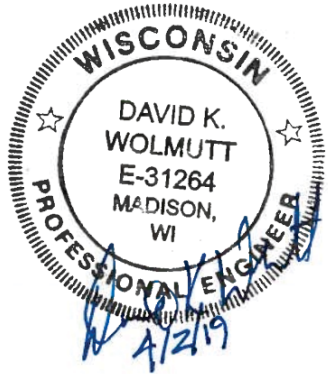
LEGEND	
	PROPOSED SANITARY SEWER
	STORM SEWER ACCESS STRUCTURE

SANITARY EXHIBIT - 1
DRAWING TITLE ENDEAVOR DRIVE -
CITY OF MADISON
ISSUED WITH
DRAWING REFERENCE
1" = 80'-0"
DRAWING SCALE
4/2/2019
DATE
UNIVERSITY RESEARCH PARK/ INNOVATION ONE
PROJECT NAME
10235.000
PROJECT NUMBER
EX-1
DRAWING NUMBER

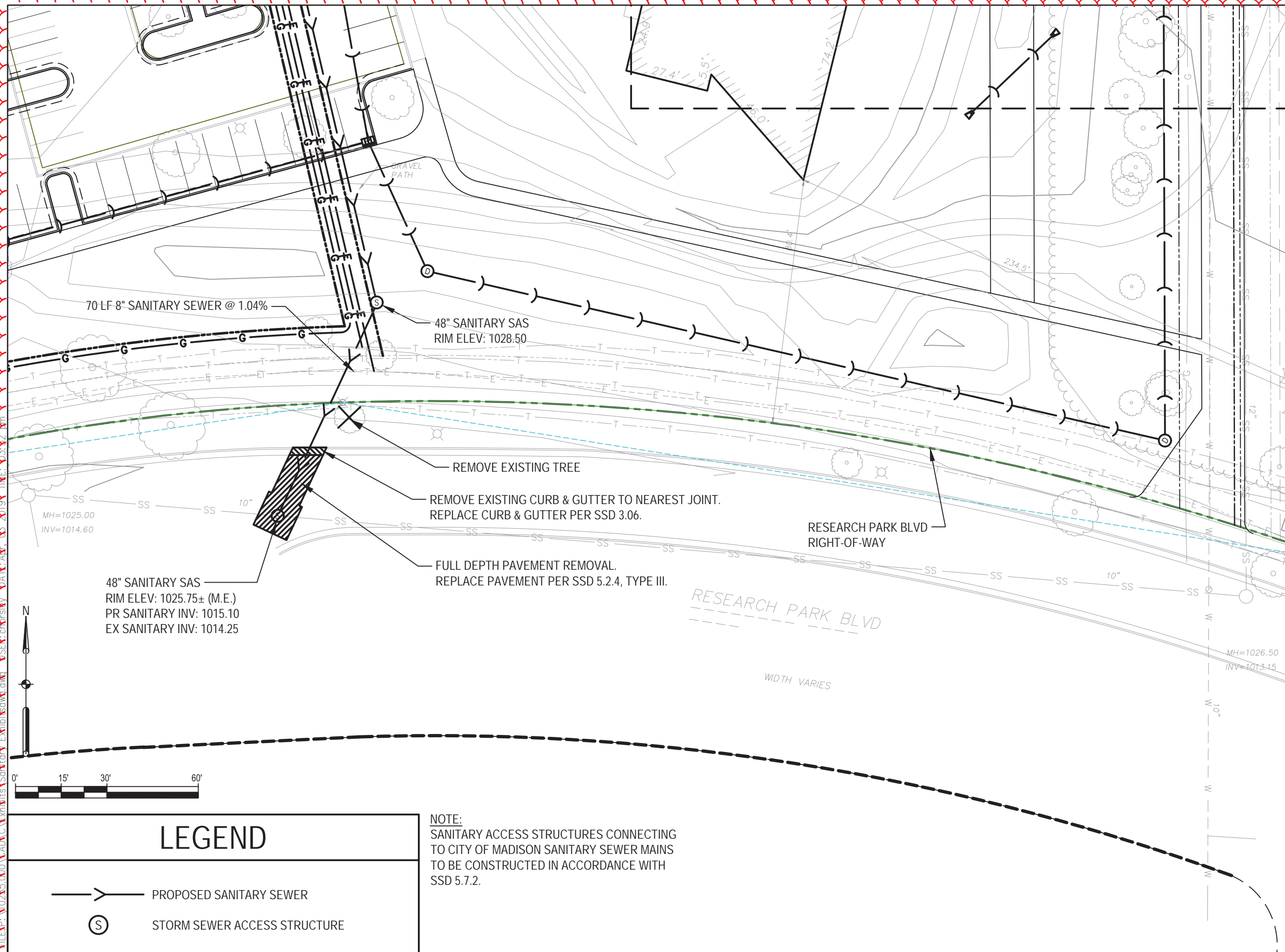


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 608.251.1177  
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REVISION - 4/5/19  
 SMITHGROUP  
 - New Sheet



SANITARY EXHIBIT - 2

DRAWING TITLE  
 ENDEAVOR DRIVE -  
 CITY OF MADISON  
 ISSUED WITH

DRAWING REFERENCE

1" = 30'-0"

DRAWING SCALE

4/2/2019

DATE  
 UNIVERSITY RESEARCH PARK/  
 INNOVATION ONE  
 PROJECT NAME

10235.000

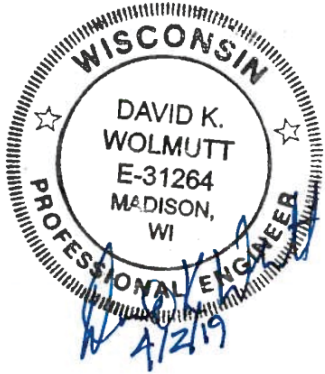
PROJECT NUMBER

EX-2

DRAWING NUMBER

# SMITHGROUP

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www.smithgroup.com



REVISION - 4/5/19  
SMITHGROUP  
- New Sheet

SANITARY EXHIBIT - 3

DRAWING TITLE  
ENDEAVOR DRIVE -

CITY OF MADISON

ISSUED WITH

DRAWING REFERENCE

1" = 30'-0"

DRAWING SCALE

4/2/2019

DATE  
UNIVERSITY RESEARCH PARK/  
INNOVATION ONE

PROJECT NAME

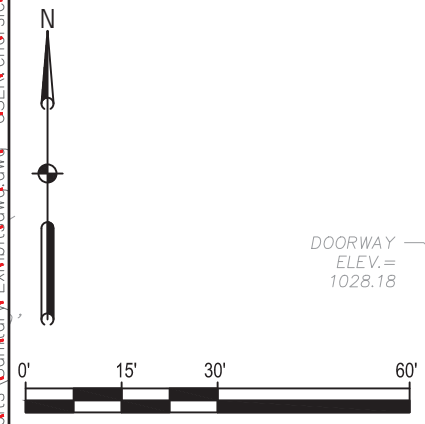
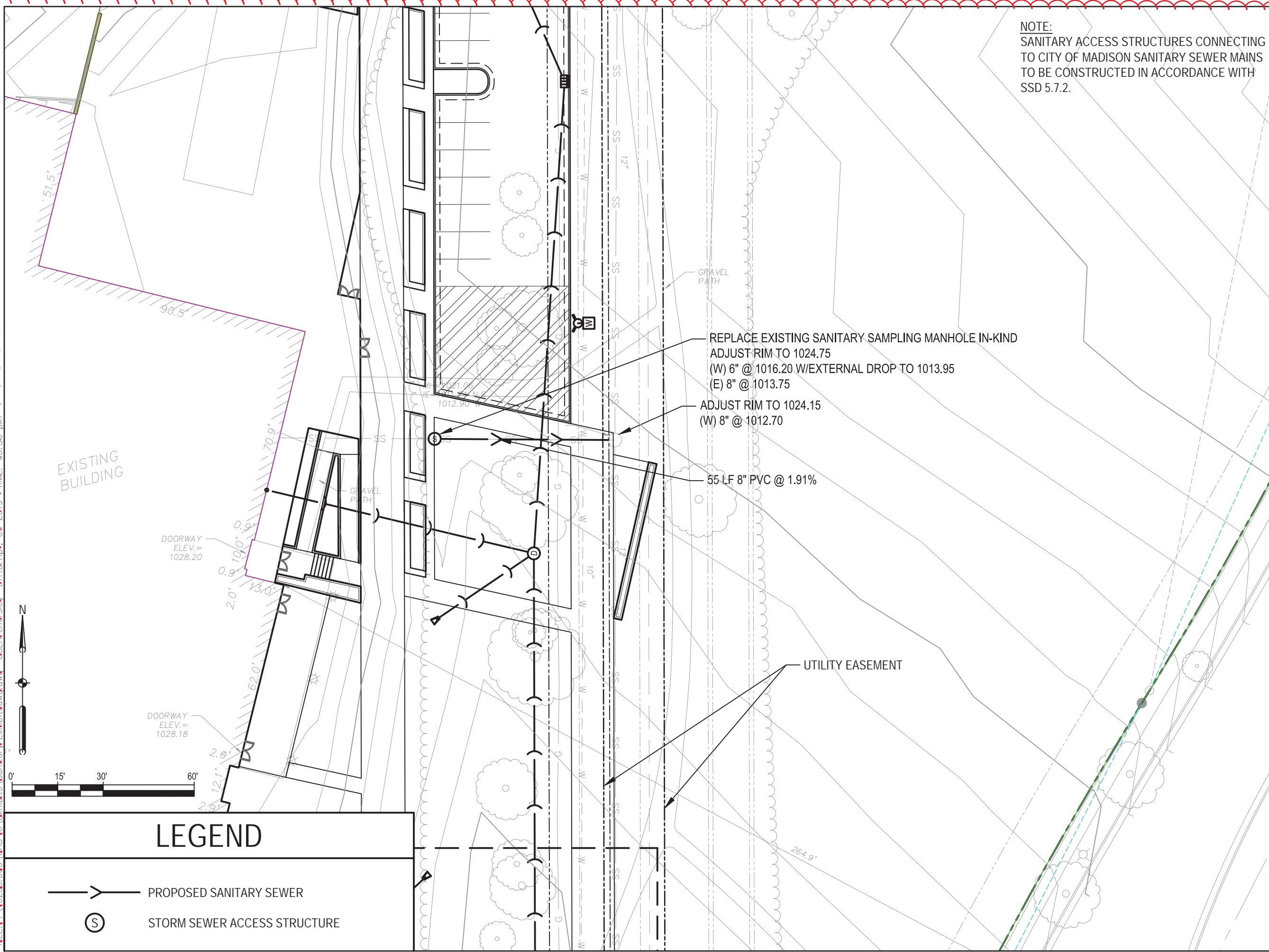
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PROJECT NUMBER

EX-3

DRAWING NUMBER

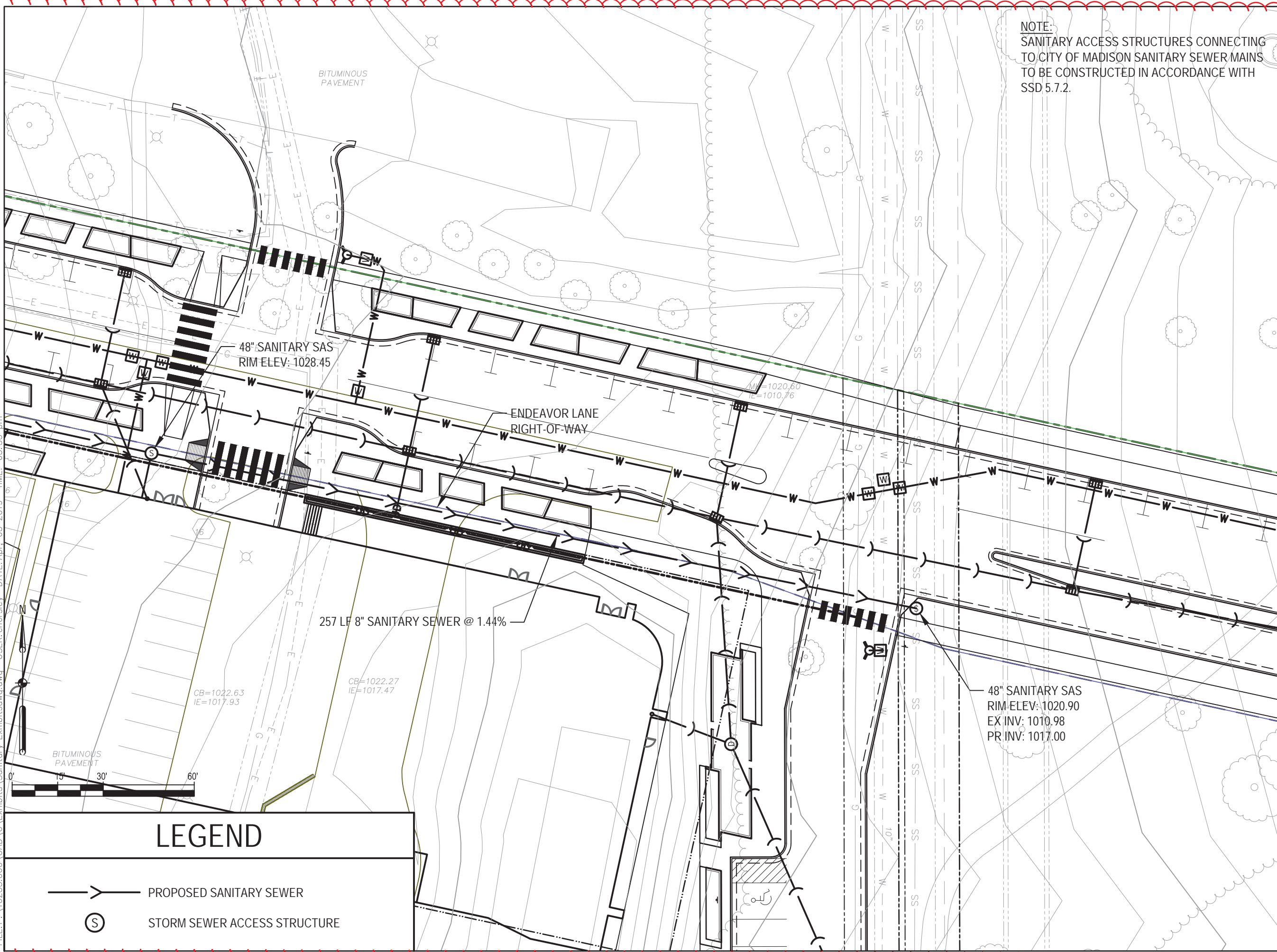
NOTE:  
SANITARY ACCESS STRUCTURES CONNECTING  
TO CITY OF MADISON SANITARY SEWER MAINS  
TO BE CONSTRUCTED IN ACCORDANCE WITH  
SSD 5.7.2.



LEGEND	
	PROPOSED SANITARY SEWER
	STORM SEWER ACCESS STRUCTURE



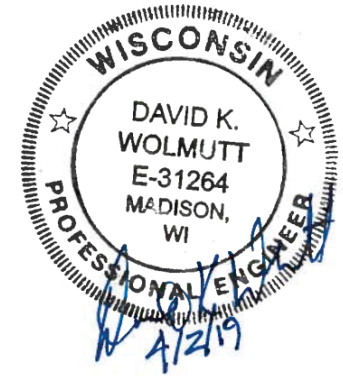
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NOTE:  
SANITARY ACCESS STRUCTURES CONNECTING  
TO CITY OF MADISON SANITARY SEWER MAINS  
TO BE CONSTRUCTED IN ACCORDANCE WITH  
SSD 5.7.2.

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REVISION - 4/5/19  
SMITHGROUP  
- New Sheet

SANITARY EXHIBIT - 4  
DRAWING TITLE  
ENDEAVOR DRIVE -  
CITY OF MADISON  
ISSUED WITH

DRAWING REFERENCE

1" = 30'-0"  
DRAWING SCALE

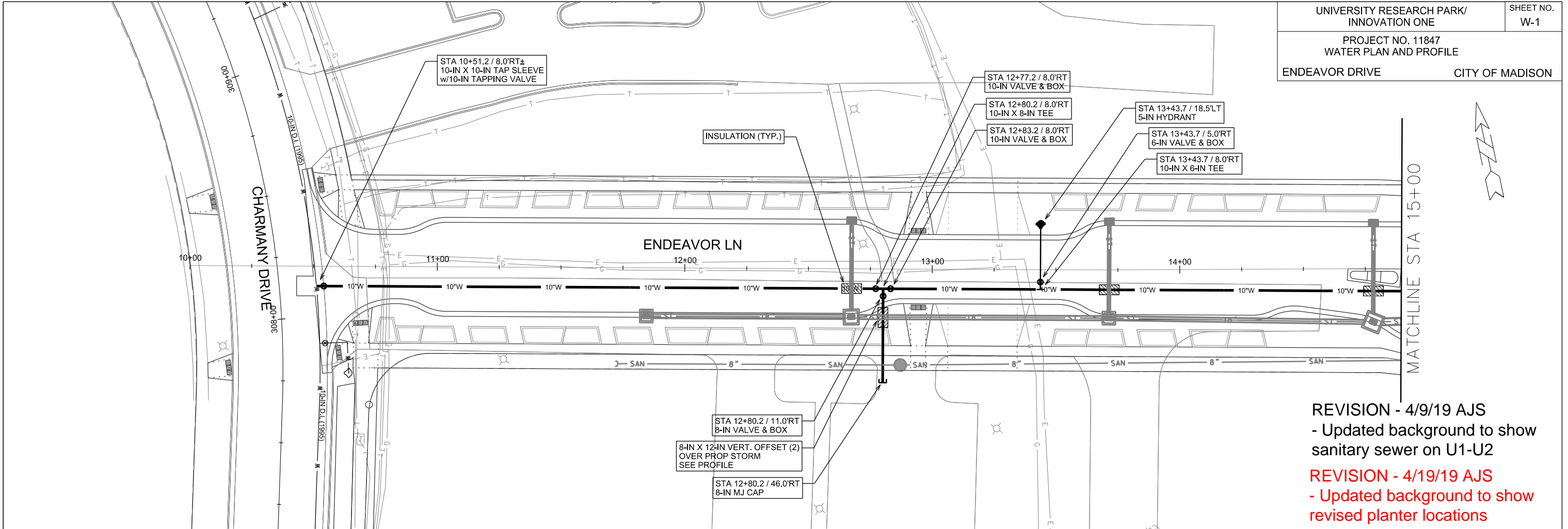
4/2/2019  
DATE  
UNIVERSITY RESEARCH PARK/  
INNOVATION ONE  
PROJECT NAME

10235.000  
PROJECT NUMBER

EX-4  
DRAWING NUMBER

## LEGEND

- PROPOSED SANITARY SEWER
- STORM SEWER ACCESS STRUCTURE



REVISION - 4/9/19 AJS  
- Updated background to show sanitary sewer on U1-U2

REVISION - 4/19/19 AJS  
- Updated background to show revised planter locations

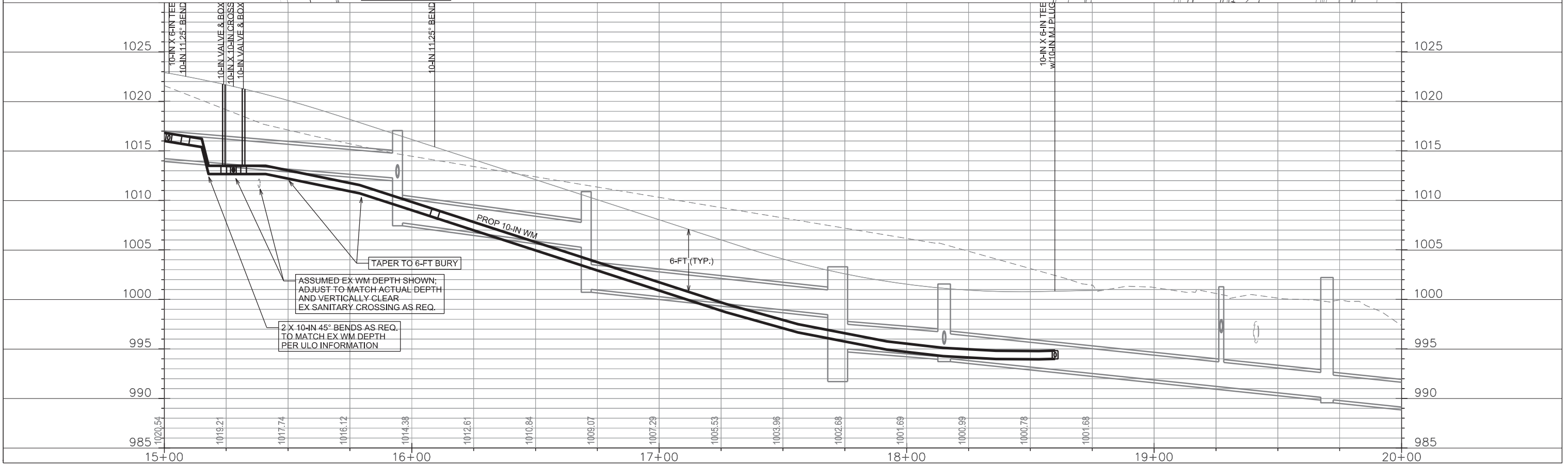
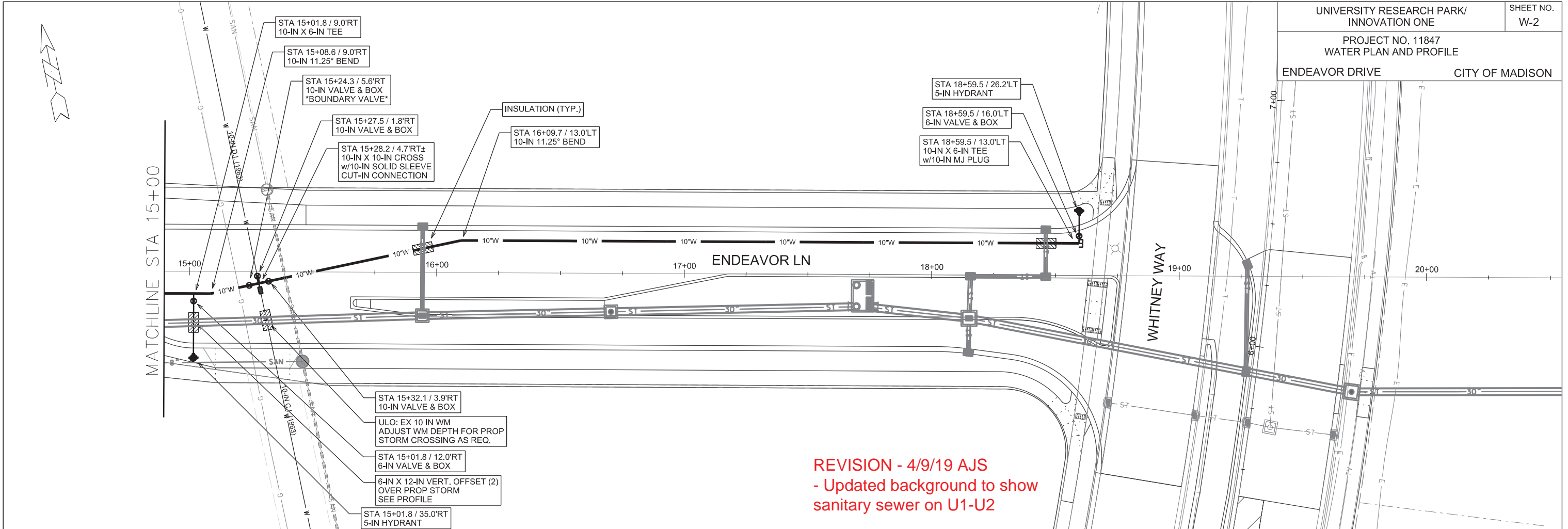


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

PLOT NAME:

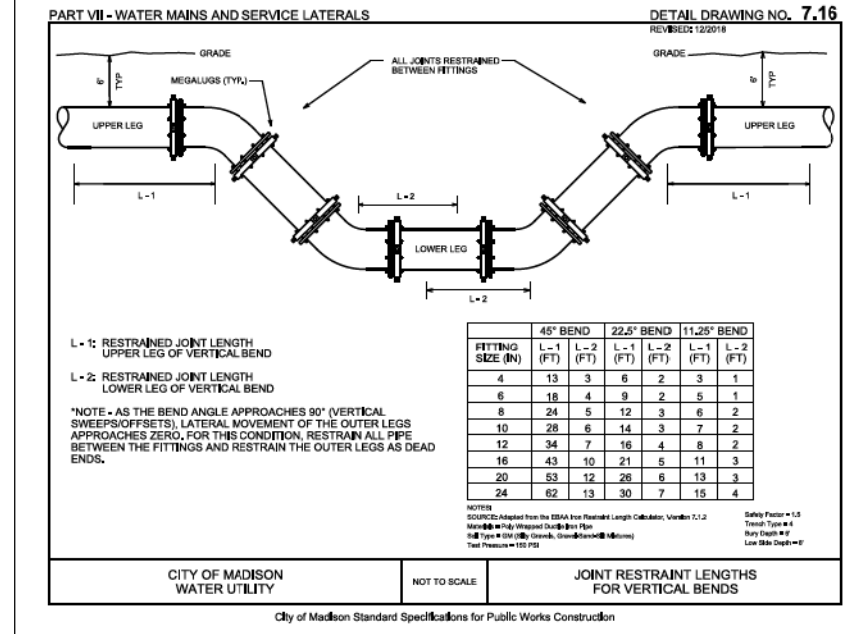
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**CONSTRUCTION NOTES:**

- CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT STORM SEWER UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
  - VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
  - MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
  - THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.
- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE FROM THE OLDER WATER MAIN TO THE NEWER WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF; ABANDON CURB BOX AS REQUIRED.
- WN4 DISCONNECT FROM THE OLDER WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEWER WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE



**ESTIMATE OF PROJECT WATER MATERIALS - FROM CONTRACTOR:**

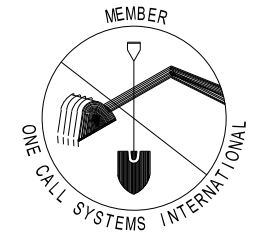
\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.

WATER ASSETS	TOTAL
6-IN PIPE (LF)	70
8-IN PIPE (LF)	40
10-IN PIPE (LF)	820
POLY WRAP	1050
6-IN VALVE & BOX	3
8-IN VALVE & BOX	1
10-IN VALVE & BOX	5
10-IN - 11.25° BEND	2
10-IN - 45° BEND (AS REQ.)	2
10-IN X 6-IN TEE	3
10-IN X 8-IN TEE	1
10-IN X 10-IN CROSS	1
10-IN SOLID SLEEVE	1
5-IN HYDRANT	3
10-IN MJ PLUG	1
8-IN MJ CAP	1
2-IN STYROFOAM (LF)	64
6-IN X 12-IN OFFSET	2
8-IN X 12-IN OFFSET	2
10-IN X 7-IN OFFSET (AS REQ.)	2

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.



= APPLY STYROFOAM INSULATION OVER THE WATER MAIN AND SERVICES AT STORM SEWER CROSSINGS, PER STANDARD SPECIFICATIONS

**ESTIMATE OF PROJECT WATER MATERIALS - FROM CITY:**

\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.

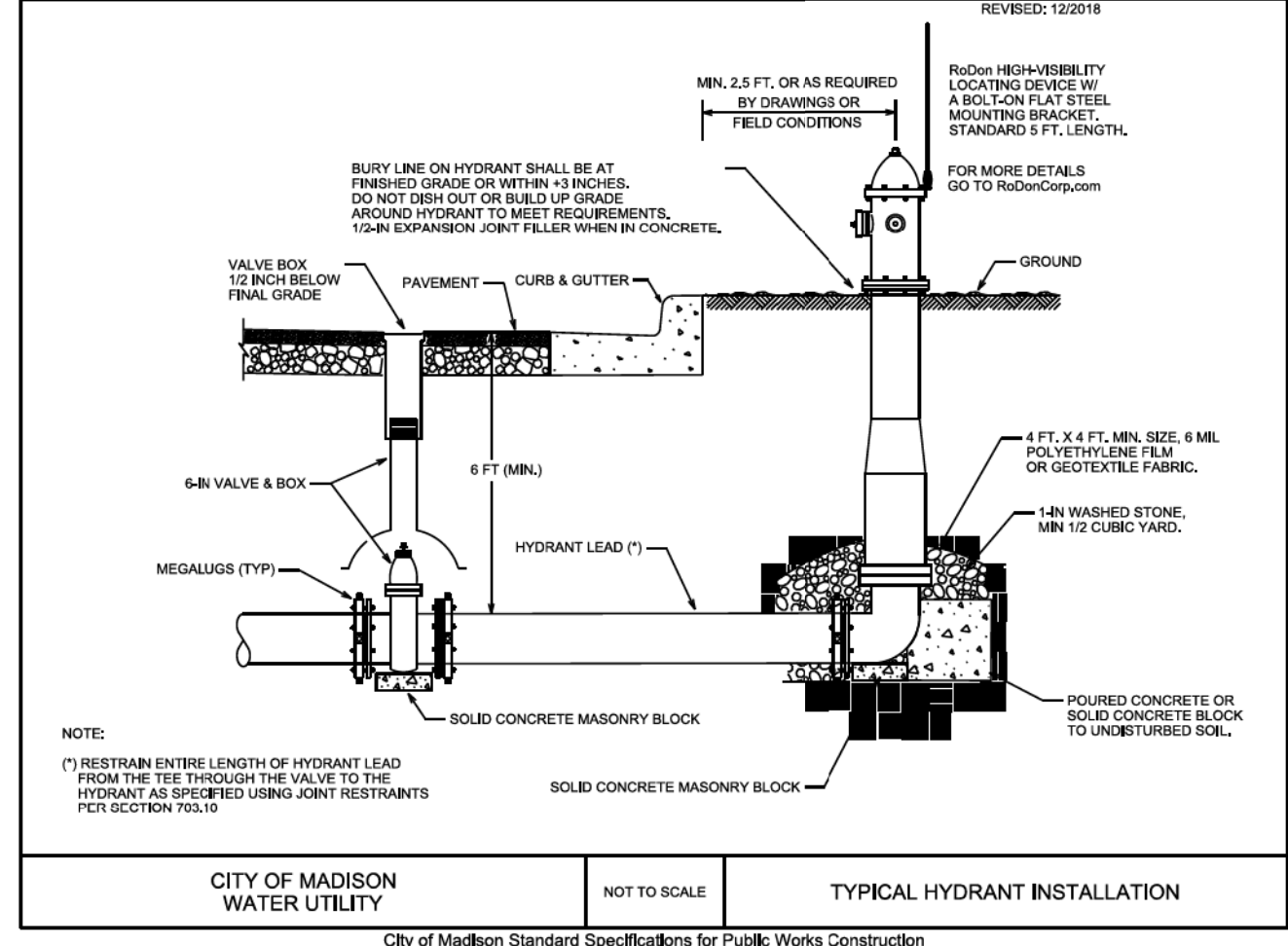
WATER ASSETS	TOTAL
10-IN TAPPING VALVE & BOX	1
10-IN X 10-IN TAPPING SLEEVE	1

**UTILITY LINE OPENINGS (ULO):**

STATION / OFFSET	
15+33 / 8.0'RT	WATER

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

**PART VII - WATER MAINS AND SERVICE LATERALS** DETAIL DRAWING NO. 7.04  
REVISED: 12/2018



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SCALE: 1" = 30'

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 (266-4899) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.

2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2019 EDITION AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.

3. THE CONTRACTOR SHALL CALL TROY VANT (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES, BURYING CONDUIT AND CONSTRUCTING ELECTRICAL HANDHOLES TO ARRANGE FOR INSPECTION.

4. ALL EXISTING CONDUITS AND STREET LIGHTS ARE TO REMAIN UNLESS AND UNTIL AUTHORIZED TO REMOVE BY TRAFFIC ENGINEERING. EXISTING CONDUITS CROSSING ENDEAVOR LN, AND EXISTING STREET LIGHT SL 6158 CAN NOT BE REMOVED UNTIL AFTER THE CONTRACTOR INSTALLS THE TWO WOOD TEMPORARY WOOD POLES SHOWN ON THE PLAN AND CITY TE CREWS HAVE INSTALL TEMPORARY OVERHEAD SIGNAL AND LIGHTING CABLES REQUIRED TO MAINTAIN THE EXISTING STREET LIGHT CIRCUIT ON WHITNEY WAY.

5. THE FOLLOWING CITY FURNISHED MATERIALS ARE TO BE PICKED UP AT THE TRAFFIC TRAFFIC OPERTION SHOP, 1120 SAYLE STREET. NOTIFY ED SMITH AT 266-9034 TWENTY FOUR (24) HOURS PRIOR TO PICKING UP THE MATERIAL:

1" X 40" ANCHOR BOLTS: 20

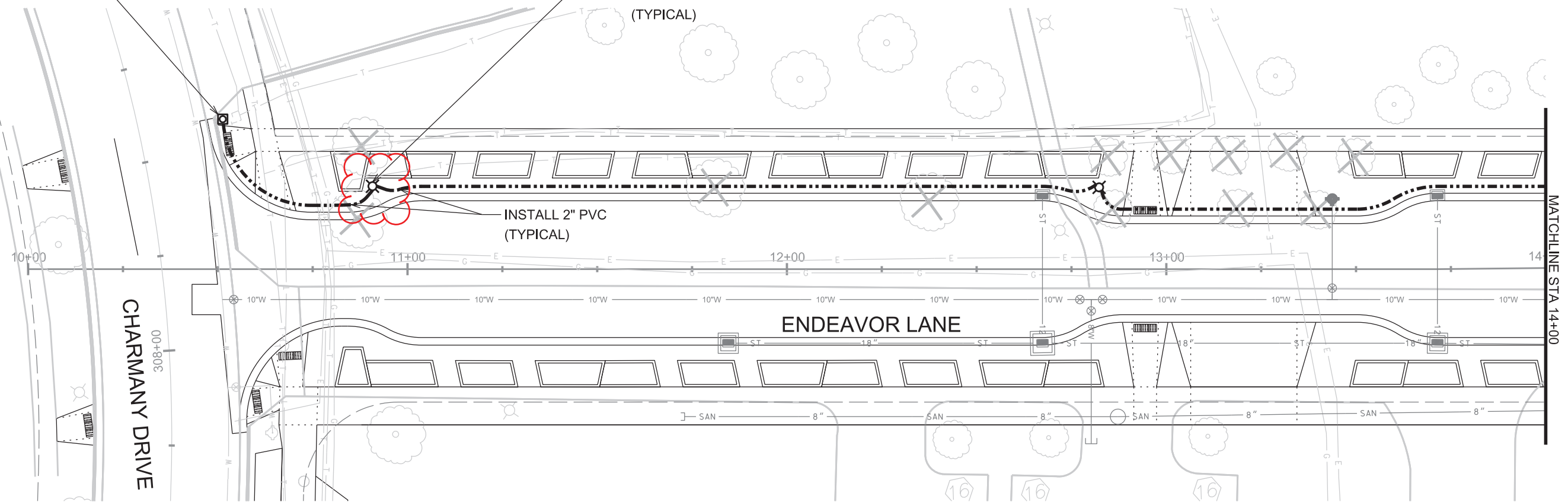
LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC COUNDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☐ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ⊗ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR

CONSTRUCT TYPE-1  
ELECTRICAL HANDHOLE  
(TYPICAL)

CONSTRUCT LB-3  
CONCRETE BASE  
11.5" B.C.  
(TYPICAL)

INSTALL 2" PVC  
(TYPICAL)



PLOT SCALE:

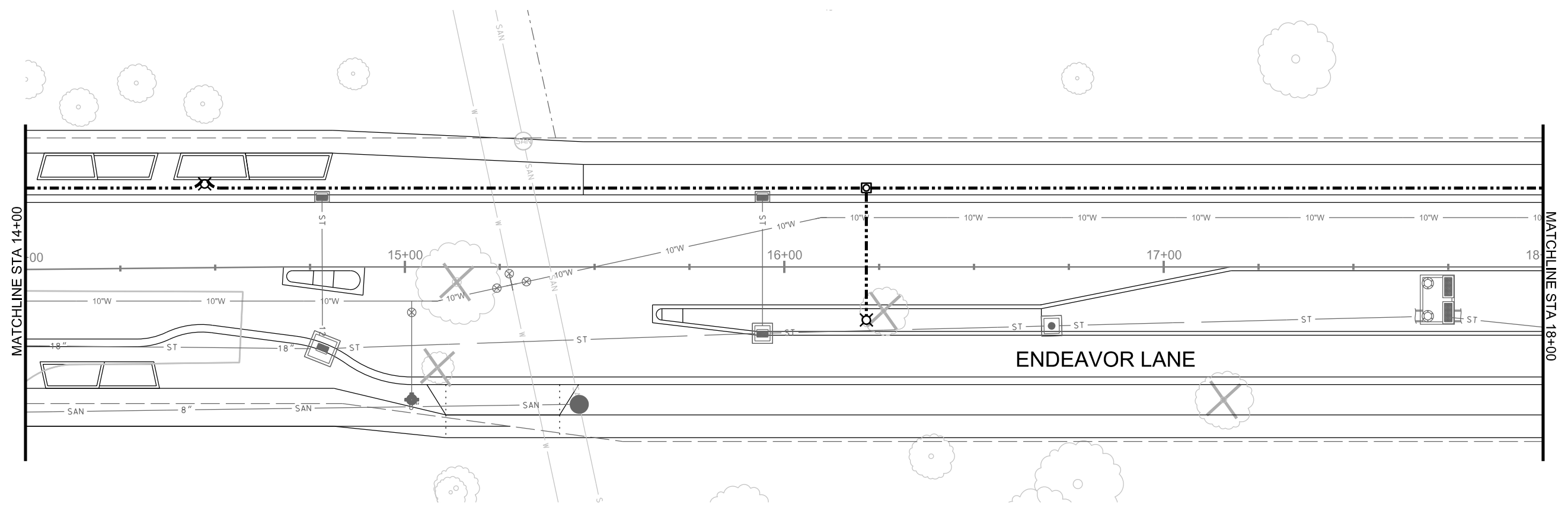
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

SCALE: 1" = 30'

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



**LEGEND**

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC CONDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☒ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ⊕ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR

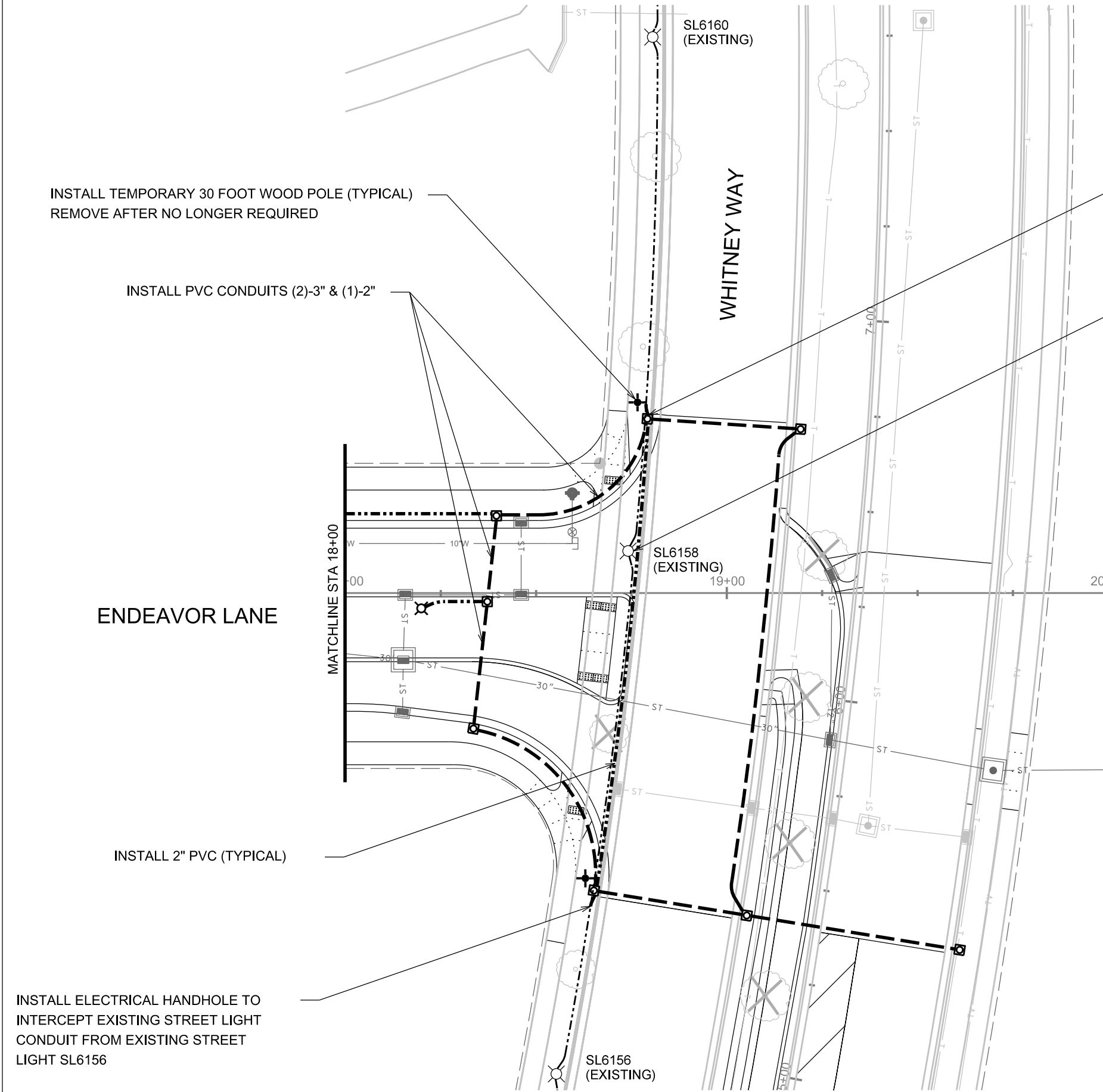


ELECTRICAL PLAN

ENDEAVOR LANE CITY OF MADISON  
REV 5/3/2019 GMA

SCALE: 1" = 30'

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



INSTALL TEMPORARY 30 FOOT WOOD POLE (TYPICAL)  
REMOVE AFTER NO LONGER REQUIRED

INSTALL PVC CONDUITS (2)-3" & (1)-2"

ENDEAVOR LANE

INSTALL 2" PVC (TYPICAL)

INSTALL ELECTRICAL HANDHOLE TO  
INTERCEPT EXISTING STREET LIGHT  
CONDUIT FROM EXISTING STREET  
LIGHT SL6156

SL6160  
(EXISTING)

WHITNEY WAY

SL6158  
(EXISTING)

SL6156  
(EXISTING)

INSTALL ELECTRICAL HANDHOLE TO  
INTERCEPT EXISTING STREET LIGHT CONDUIT  
FROM EXISTING STREET LIGHT SL6160

REMOVE CONCRETE BASE  
REMOVE & DELIVER STREET LIGHT POLE/ARM/FIXTURE  
TO TRAFFIC ENGINEERING SHOP. NOTIFY ED SMITH AT  
266-9034 TWENTY FOUR (24) HOURS PRIOR TO DELIVERY

LEGEND

- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC CONDUIT, 2-3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- ☐ CONSTRUCT TYPE-1 ELECTRICAL HANDHOLE
- ⊗ CONSTRUCT LB-3 CONCRETE BASE MODIFIED TO HAVE 11.5 INCH BOLT CIRCLE
- ⊗ EXISTING STREET LIGHT POLE/BASE
- ⊕ TEMPORARY 30 FOOT WOOD POLE TO BE INSTALLED AND REMOVED BY CONTRACTOR

# UNIVERSITY RESEARCH PARK - INNOVATION ONE MADISON, WI

REVISION 10/18/19 WESTPHAL  
- New Sheet, Private Lighting within R/W

PROJECT NAME  
**INNOVATION ONE**

PROJECT ADDRESS  
510 (HARMANY, MADISON, WI 53719)



ARCHITECT  
VALERIO DEWALT TRAIN ASSOCIATES, INC.  
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VDTA PROJECT NUMBER

CONSULTANT

14 MARSH COURT  
MADISON, WI 53718  
TELEPHONE: (608) 222-0105

CONSULTANT PROJECT NUMBER  
**1840005**

ISSUE		
NO.	REVISION DESCRIPTION	DATE
2	95% CONSTRUCTION DOCUMENTS	07/20/18
4	100% CONSTRUCTION DOCUMENTS	08/29/18
6	ISSUED FOR CONSTRUCTION	10/11/18
19	ISSUED FOR CONSTRUCTION	04/26/19

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SHEET TITLE  
**SYMBOLS AND ABBREVIATIONS**



SHEET NUMBER  
**E0-01**

7/8/2019 10:06:40 AM

### LIGHTING

	SURFACE MOUNTED LED FIXTURE MOUNTING LOCATION: CEILING		EXIT DIRECTIONAL ARROW
	SURFACE MOUNTED EMERGENCY LED FIXTURE MOUNTING LOCATION: CEILING		SINGLE FACE EXIT FIXTURE MOUNTING LOCATION: CEILING
	LED STRIP FIXTURE MOUNTING LOCATION: WALL OR CEILING		DOUBLE FACE EXIT FIXTURE MOUNTING LOCATION: CEILING
	LED STRIP FIXTURE - EMERGENCY MOUNTING LOCATION: WALL OR CEILING		SINGLE FACE EXIT FIXTURE MOUNTING LOCATION: WALL
	SUSPENDED LINEAR LED FIXTURE MOUNTING LOCATION: CEILING		DOUBLE FACE EXIT FIXTURE MOUNTING LOCATION: WALL
	RECESSED MOUNTED LED TROFFER LOCATION: CEILING		SINGLE HEAD EMERGENCY FIXTURE WITH BATTERY PACK
	SURFACE MOUNTED WALL FIXTURE MOUNTING LOCATION: WALL		DOUBLE HEAD EMERGENCY FIXTURE WITH BATTERY PACK

### SWITCHES

	SINGLE POLE SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6" # = SWITCH DESIGNATION DT = PASSIVE DUAL TECHNOLOGY LV = LOW VOLTAGE PUSHBUTTON WALLPOD		LIGHTING CONTACTOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
	THREE WAY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		DIMMER MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
	FOUR WAY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		TIME SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
	TWO POLE SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		PHOTO CELL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
	KEY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		AMBIENT LIGHT SENSOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
	MOMENTARY CONTACT SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		AMBIENT LIGHT SENSOR MOUNTING LOCATION: CEILING
	DOOR SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		OCCUPANCY SENSOR FOR LIGHTING CONTROL MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6" PIR = PASSIVE INFRARED U = UL TRASONIC DT = DUAL TECHNOLOGY PIRA = PIR WITH AMBIENT LIGHT SENSOR
	SWITCH WITH PILOT LIGHT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		OCCUPANCY SENSOR FOR LIGHTING CONTROL MOUNTING LOCATION: CEILING
	LOW VOLTAGE "M"-MASTER SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		FLOOR SWITCH MOUNTING LOCATION: FLOOR
	REMOTE CONTROL FOR MOTORIZED DAMPER MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"		POWER/RELAY PACK, OCCUPANCY CONTROLLED DIMMING
			POWER/RELAY PACK, OCCUPANCY CONTROLLED DIMMING, EMERGENCY OPERATION
			LIGHTING CONTROL BRIDGE KIT

### DATA DEVICES

	DATA OUTLET MOUNTING HEIGHT: 1'-6" UNO		INTERCOM		DATA OUTLET FOR INTERCOM MOUNTING HEIGHT: 4'-0" UNO
--	---	--	----------	--	--

### SHEET SYMBOLS

	NOTE DESIGNATION		DETAIL REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET DETAIL APPEARS
	REVISION NUMBER DESIGNATION		SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS
	NORTH-ARROW		

### POWER RECEPTACLES

	DUPLEX RECEPTACLE MOUNTING HEIGHT: 1'-6" UNO		MOTOR CONNECTION
	GROUND FAULT INTERRUPT DUPLEX RECEPTACLE MOUNTING HEIGHT: 1'-6" UNO		TRANSFORMER
	WATERPROOF GROUND FAULT INTERRUPT DUPLEX RECEPTACLE MOUNTING HEIGHT: 1'-6" UNO		PANELBOARD - NORMAL
	DOUBLE DUPLEX RECEPTACLE MOUNTING HEIGHT: 1'-6" UNO		PANELBOARD - EMERGENCY/LIFE SAFETY
	DUPLEX RECEPTACLE - ABOVE COUNTER MOUNTING HEIGHT: 2" ABOVE BACKSPASH UNO		PANELBOARD - LEGALLY REQUIRED
	FIXED EQUIPMENT CONNECTION COORDINATE MOUNTING WITH EQUIPMENT		LIGHTING CONTROL PANEL
			SURFACE JUNCTION BOX
			SURFACE JUNCTION BOX - WALL
			FLUSH JUNCTION BOX - CEILING
			FLUSH JUNCTION BOX - WALL
			FLUSH JUNCTION BOX - FLOOR

### FIRE ALARM

	WALL MOUNTED SPEAKER STROBE MOUNTING HEIGHT: 8'-8" TO 8'-0"		PULL STATION/FIRE ALARM BOX MOUNTING HEIGHT: 3'-6" TO 4'-6" AFF
	WALL MOUNTED SPEAKER MOUNTING HEIGHT: 8'-8" TO 8'-0"		DOOR HOLDER
	WALL MOUNTED STROBE MOUNTING HEIGHT: 8'-8" TO 8'-0"		DOOR HOLDER W/ SMOKE DETECTOR
	CEILING MOUNTED SPEAKER STROBE		RELAY MODULE
	FIRE ALARM NOTIFICATION POWER SUPPLY		MONITOR MODULE
	FIRE ALARM ANNUNCIATOR PANEL		MANUAL RELEASING SWITCH
	REMOTE ANNUNCIATOR		TAMPER SWITCH
	AREA OF RESCUE ASSISTANCE		FLOW DETECTOR/SWITCH
	CEILING MOUNTED SMOKE DETECTOR		PRESSURE DETECTOR/SWITCH
	CEILING MOUNTED HEAT DETECTOR		LEVEL DETECTOR/SWITCH
			TEMPERATURE SUPERVISORY SWITCH
			CONTROL MODULE
			FIRE DAMPER

### SITE SYMBOLS

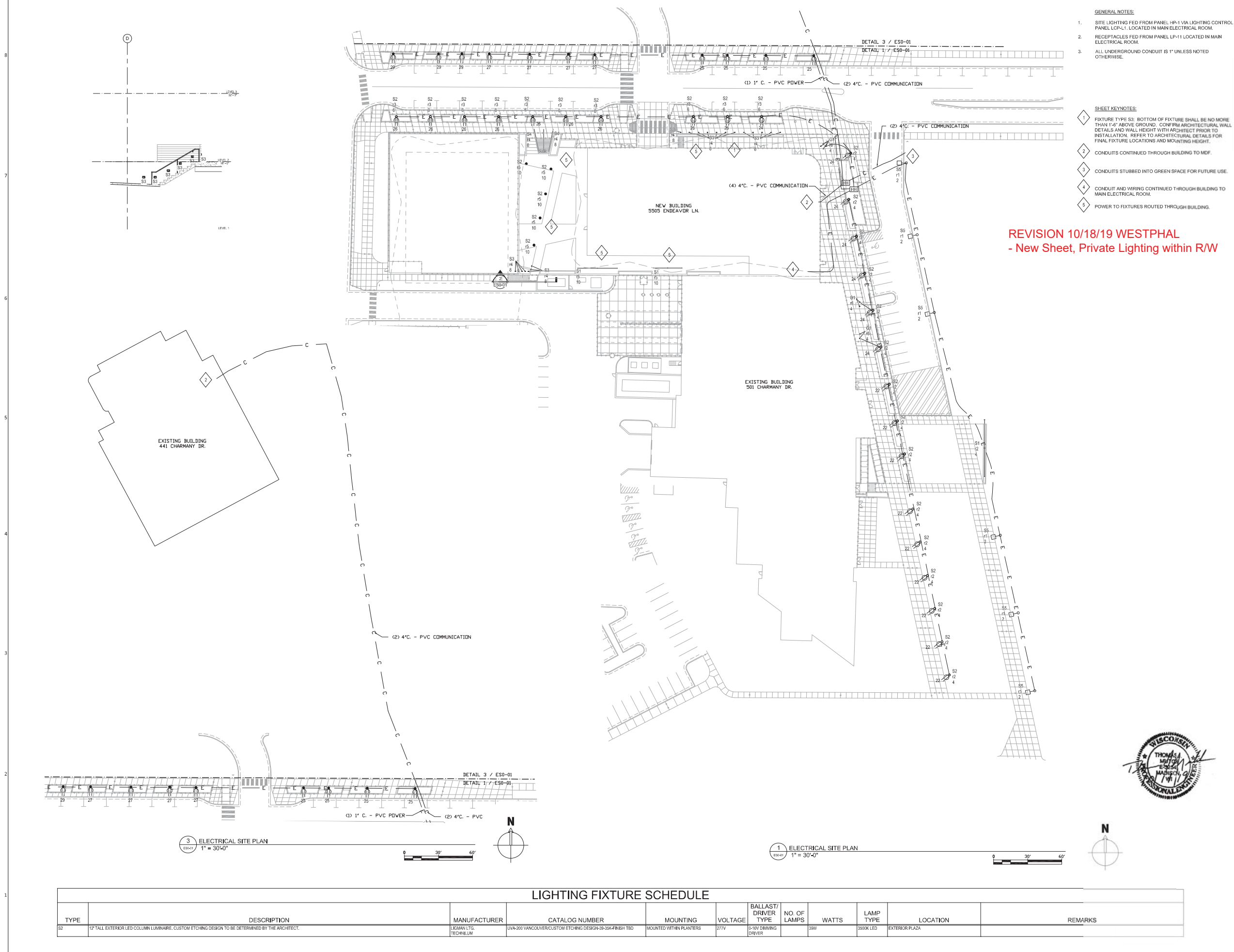
	CIRCUIT/SWITCH		BOLLARD OR GROUND MOUNTED FIXTURE
	POLE FIXTURE, ONE HEAD		EXTERIOR WALL MOUNTED FIXTURE
	POLE FIXTURE, TWO HEAD		E = ELECTRIC POWER
	POLE FIXTURE, FOUR HEAD		T = TELEPHONE
			UG = UNDERGROUND
			OH = OVERHEAD
			D = DATA
	IN GROUND COLUMN FIXTURE		
	IN GROUND POST		

### ABBREVIATIONS

10/100BaseTX	ETHERNET FAST ETHERNET	JB	JUNCTION BOX
100BaseSX	GIABIT ETHERNET (SHORT WAVELENGTH)	KO	KNOCKOUT
100BaseLX	GIABIT ETHERNET (LONG WAVELENGTH)	KV	KILOVOLT
A	AMPERES	KVA	KILOVOLT-AMPERES
AC	ACROSS	KW	KILOWATTS
ACS	ACCESS CONTROL SYSTEM	KWH	KILOWATT HOURS
ACT	ACTUATOR	LAN	LOCAL AREA NETWORK
ADO	AUTOMATIC DOOR OPENER	LGT	LIGHT
AF	AMPERE FRAME	LTCP	LOCAL TEMPERATURE CONTROL PANEL
AFB	ABOVE FINISHED FLOOR	LTS	LIGHTING
AG	AMP INTERRUPTING CAPACITY	LTV	LOW VOLTAGE
ALT	ALTERNATE	LTV	LOW VOLTAGE
ARCH	ARCHITECTURAL	MATV	MASTER ANTENNA TELEVISION
ASC	ABOVE SUSPENDED CEILING	MC	MECHANICAL CONTRACTOR
ASD	AMPERE TRIP	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTER
AUTO	AUTOMATIC	MCP	MOTOR CIRCUIT PROTECTOR
AWG	AMERICAN WIRE GAUGE	MD	MAIN DISTRIBUTION FACILITY
BAS	BUILDING AUTOMATION SYSTEM	MDP	MAIN DISTRIBUTION PANEL
BATS	BYPASS AUTOMATIC TRANSFER SWITCH	MER	MAIN EQUIPMENT ROOM
BC	BARE COPPER	MLO	MAIN LUGS ONLY
BCS	BUILDING CONTROL SYSTEM	MH	MAINTENANCE HOLE
BEF	BUILDING ENTRANCE FACILITY	MM	MULTIMEDIA
BFC	BELOW FINISH CEILING	MP	MUSIC & PAGE
BFL	BELOW FLOOR LEVEL	MPTB	MUSIC & PAGE TERMINAL BOX
BLDG	BUILDING	MTD	MOUNTED
BMS	BUILDING MANAGEMENT SYSTEM	MTG	MOUNTING
BPP	BOILER PLANT INSTRUMENTATION PANEL	MTG HGT	MOUNTING HEIGHT
BRKR	BREAKER	MTR	MOTORMETER
C	CONDUIT	NA	NOT APPLICABLE
CCTV	CLOSED CIRCUIT TELEVISION	NC	NEW CONNECTION/NORMALLY CLOSED
CCT	CIRCUIT	NEC	NATIONAL ELECTRIC CODE
CB	CIRCUIT BREAKER	NFD	NON-FUSED DISCONNECT
CB/CCT BRK	CIRCUIT BREAKER	NFSD	NON-FUSED SAFETY SWITCH
CD	CONDUIT ONLY	NTC	NOT IN CONTRACT
CEILING	CEILING	NO	NORMALLY OPEN
CONN	CONNECTION	NTS	NOT TO SCALE
CONTR	CONTRACTOR	OC	OWNER FURNISHED CONTRACTOR INSTALLED
CORR	CORRIDOR	OFI	OWNER FURNISHED OWNER INSTALLED
CP	CONSOLIDATION POINT	P	POLE
CT	CURRENT TRANSFORMER/CABLE TRAY	PA	PUBLIC ADDRESS
DB	DIRECT BURIAL	PA	PULL BOX/PUSHBUTTON
DC	DIRECT CURRENT	PBX	PRIVATE BRANCH EXCHANGE
DED	DEDICATED	PC	PLUMBING CONTRACTOR/PERSONAL COMPUTER
DET	DETAIL	PDU	POWER DISTRIBUTION UNIT
DI	DIAMETER	PF	POWER FACTOR
DISC	DISCONNECT	PH	PHASE
DN	DOWN	PLBG	PLUMBING
DP	DISTRIBUTION PANEL	PL	PANEL
DS	DISCONNECT SWITCH	POD	POTENTIAL OPERATED DAMPER
DUR	DURAL	PT	POTENTIAL TRANSFORMER
EC	EMPTY CONDUIT/ELECTRICAL CONTRACTOR	PTV	POWER TYPE ROOF VENTILATOR
ECL	EMERGENCY CRITICAL LIGHTING	PWR	POWER
ED	EMERGENCY CRITICAL POWER	RECESS	RECESSED
EDB	ELECTRIC DUCT BANK	RECEP	RECEPTACLE
EF	ENTRANCE FACILITY	REL	RELOCATE
EG	EQUIPMENT GROUND	REQD	REQUIRED
EGS	ENGINE GENERATOR SET	RGP	REMOTE GROUND INDICATOR PANEL
EIF	EQUIPMENT INTERMEDIATE DISTRIBUTION FACILITY	RMC	RIGID METAL CONDUIT
EJ	EXPANSION JOINT	RJ	RACK UNIT
ELEC	ELECTROELECTRICAL	RVT	REDUCED VOLTAGE AUTO TRANSFER
ELL	EMERGENCY LIFE SAFETY LIGHTING	SHT	SHEET
ELP	EMERGENCY LIFE SAFETY POWER	SH	SIGNAL
EMER	EMERGENCY	SM	SIGNAL
EMI	ELECTROMAGNETIC INTERFERENCE	SM	SIGNAL
EMT	ELECTRICAL METALLIC TUBING	SO	STANDARD INFORMATION OUTLET
EQUIP	EQUIPMENT	SM	SIGNAL
ER	EQUIPMENT ROOM	SPEC	SPECIFICATION
ESM	ELECTRICAL STRIP MOLD	SS	SAFETY SWITCH
EXT	EXISTING TO REMAIN	STA	STARTER
ETR	EXISTING TO REMAIN	STB	STARTER
EWC	ELECTRIC WATER COOLER	SW	SWITCH
EXT	EXTERNAL	SWB	SWITCHBOARD
FAC	FLUSH WITH FINISHED CEILING	SWG	SWITCHGEAR
FIF	FLUSH WITH FINISHED FLOOR	TB	TERMINAL BOX
FFW	FLUSH WITH FINISHED WALL	TEL	TELEPHONE
FA	FIRE ALARM	TFA	TO FLOOR ABOVE
FACP	FIRE ALARM CONTROL PANEL	TFB	TO FLOOR BELOW
FAN	FAN COOL UNIT	TO	TELECOMMUNICATIONS OUTLET
FED	FEDER	TR	TELECON ROOM
FES	FUSED DISCONNECT SWITCH	TR	TAMPER SWITCH/TIME SWITCH
FI	FIRE ILLUMINATOR	TV	TELEVISION
FIX	FIXTURE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FL	AT FLOOR LINE	TVTC	TELEVISION TERMINAL CABINET
FLA	FULL LOAD AMPERES	TYP	TYPICAL
FLEX	FLEXIBLE	UC	UNDER COUNTER
FLR	FLOOR	UG	UNDERGROUND
FLUOR	FLUORESCENT	UH	UNIT HEATER
FS	FLOW SWITCH	UNL	UNLESS NOTED OTHERWISE
FSS	FUSED SAFETY SWITCH	UPS	UNINTERRUPTIBLE POWER SUPPLY
FSCP	FLAME SAFEGUARD CONTROL PANEL	V	VOLTAGE
FWR	FULL VOLTAGE NON-REVERSING	VFD	VARIABLE FREQUENCY DRIVE
GBC	GIABIT INTERFACE CONVERTER	VOP	VOICE OVER INTERNET PROTOCOL
GC	GENERAL CONTRACTOR	VP	VAPOR PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	W	WIRE
GND	GROUND	W	WITH
GEN	GENERATOR	WP	WEATHERPROOF
GL	GALVANNEED REID CONDUIT	WS	WALL SURFACE
GTB	GROUND TERMINAL BOX	WT	WATER TIGHT
HH	HANDHOLE	WBT	WATER TIGHT
HDA	HAND OFF AUTOMATIC	X	X-RAY
HP	HORSE POWER	XFMR	TRANSFORMER
HT	HIGH-TEMPERATURE TRACE	XP	EXPLOSION PROOF
HV	HIGH VOLTAGE		
IDF	INTERMEDIATE DISTRIBUTION FACILITY		
IMC	INTERMEDIATE METAL CONDUIT		
INCAND	INCANDESCENT		



A B C D E F G H I J K L M



- GENERAL NOTES:**
- SITE LIGHTING FED FROM PANEL HR-1 VIA LIGHTING CONTROL PANEL LOP-L. LOCATED IN MAIN ELECTRICAL ROOM.
  - RECEPTACLES FED FROM PANEL LP-11 LOCATED IN MAIN ELECTRICAL ROOM.
  - ALL UNDERGROUND CONDUIT IS 1" UNLESS NOTED OTHERWISE.
- SHEET KEYNOTES:**
- FIXTURE TYPE S2: BOTTOM OF FIXTURE SHALL BE NO MORE THAN 1'-6" ABOVE GROUND. CONFIRM ARCHITECTURAL WALL DETAILS AND WALL HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL DETAILS FOR FINAL FIXTURE LOCATIONS AND MOUNTING HEIGHT.
  - CONDUITS CONTINUED THROUGH BUILDING TO MDF.
  - CONDUITS STUBBED INTO GREEN SPACE FOR FUTURE USE.
  - CONDUIT AND WIRING CONTINUED THROUGH BUILDING TO MAIN ELECTRICAL ROOM.
  - POWER TO FIXTURES ROUTED THROUGH BUILDING.

**REVISION 10/18/19 WESTPHAL**  
- New Sheet, Private Lighting within R/W

**PROJECT NAME**  
UNIVERSITY  
RESEARCH PARK /  
INNOVATION ONE

**PROJECT ADDRESS**  
5505 ENDEAVOR LANE  
MADISON, WI 53719



**ARCHITECT**  
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JOHN LUKE PRIFOGLIE

**VDTA PROJECT NUMBER**  
17055.00

**CONSULTANT**

**CONSULTANT PROJECT NUMBER**

**KEY PLAN**

NO.	REVISION DESCRIPTION	DATE
1	DESIGN DEVELOPMENT	11/22/2017
2	SITE PLAN APPROVAL	11/27/2017
3	DESIGN DEVELOPMENT #2	07/18/2018
4	SITE PLAN APPROVAL-REVISED	03/02/2018
5	75% CONSTRUCTION DOCUMENTS	07/30/2018
6	100% CONSTRUCTION DOCUMENTS	08/29/2018
7	ISSUED FOR CONSTRUCTION	10/11/2018
8	MEPP BULLETIN #2	03/13/2019
9	ISSUED FOR CONSTRUCTION	04/26/2019
10	BCS BULLETIN #5	09/30/2019
11	CITY REVIEW SET	10/11/2019



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**SHEET TITLE**

**ELECTRICAL SITE PLAN**

**SHEET NUMBER**  
ESO-01



LANDSCAPING PLAN

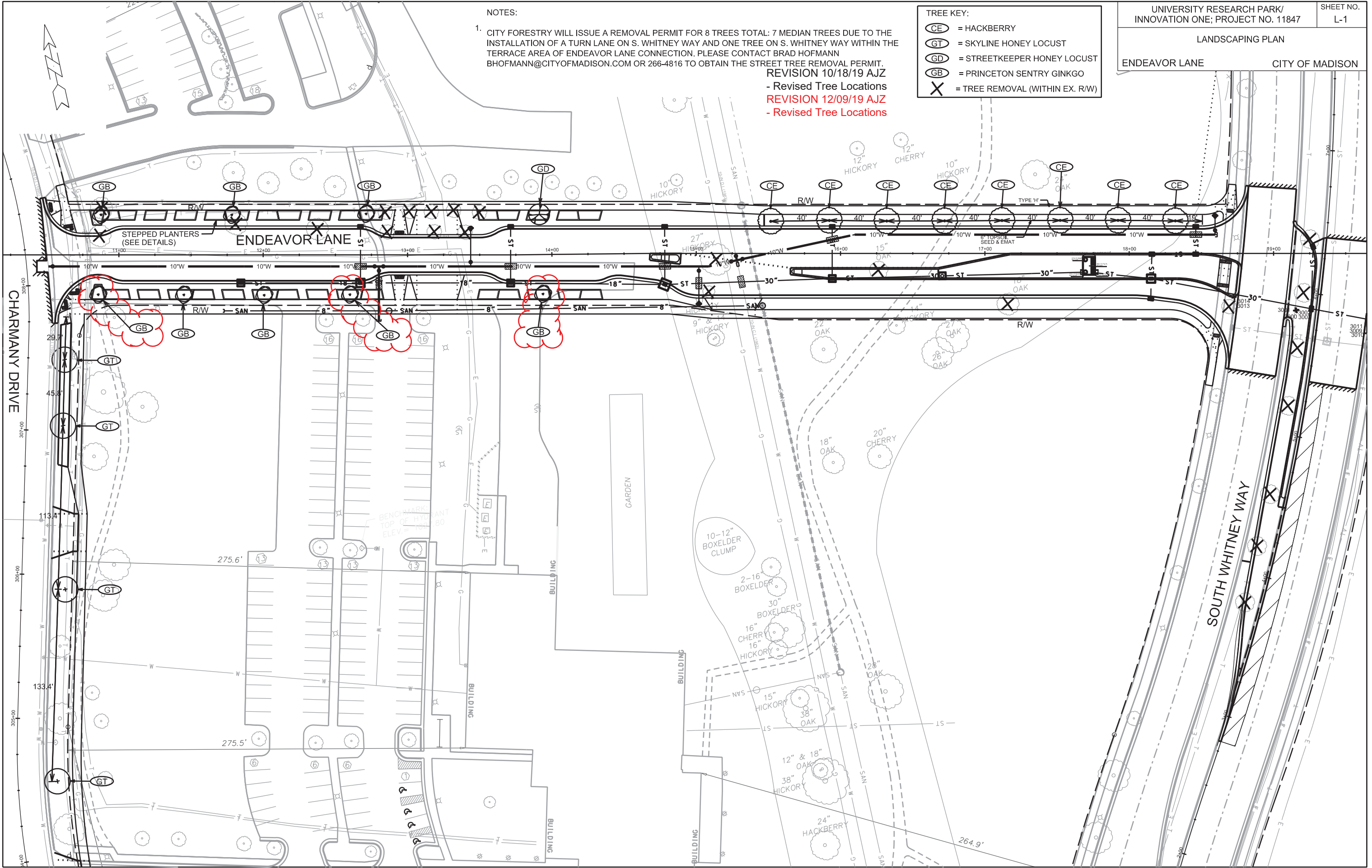
ENDEAVOR LANE CITY OF MADISON

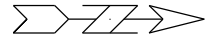
NOTES:

- CITY FORESTRY WILL ISSUE A REMOVAL PERMIT FOR 8 TREES TOTAL: 7 MEDIAN TREES DUE TO THE INSTALLATION OF A TURN LANE ON S. WHITNEY WAY AND ONE TREE ON S. WHITNEY WAY WITHIN THE TERRACE AREA OF ENDEAVOR LANE CONNECTION. PLEASE CONTACT BRAD HOFMANN BHOFMANN@CITYOFMADISON.COM OR 266-4816 TO OBTAIN THE STREET TREE REMOVAL PERMIT.  
**REVISION 10/18/19 AJZ**  
 - Revised Tree Locations  
**REVISION 12/09/19 AJZ**  
 - Revised Tree Locations

TREE KEY:

- ⊖ = HACKBERRY
- ⊖ = SKYLINE HONEY LOCUST
- ⊖ = STREETKEEPER HONEY LOCUST
- ⊖ = PRINCETON SENTRY GINKGO
- X = TREE REMOVAL (WITHIN EX. R/W)

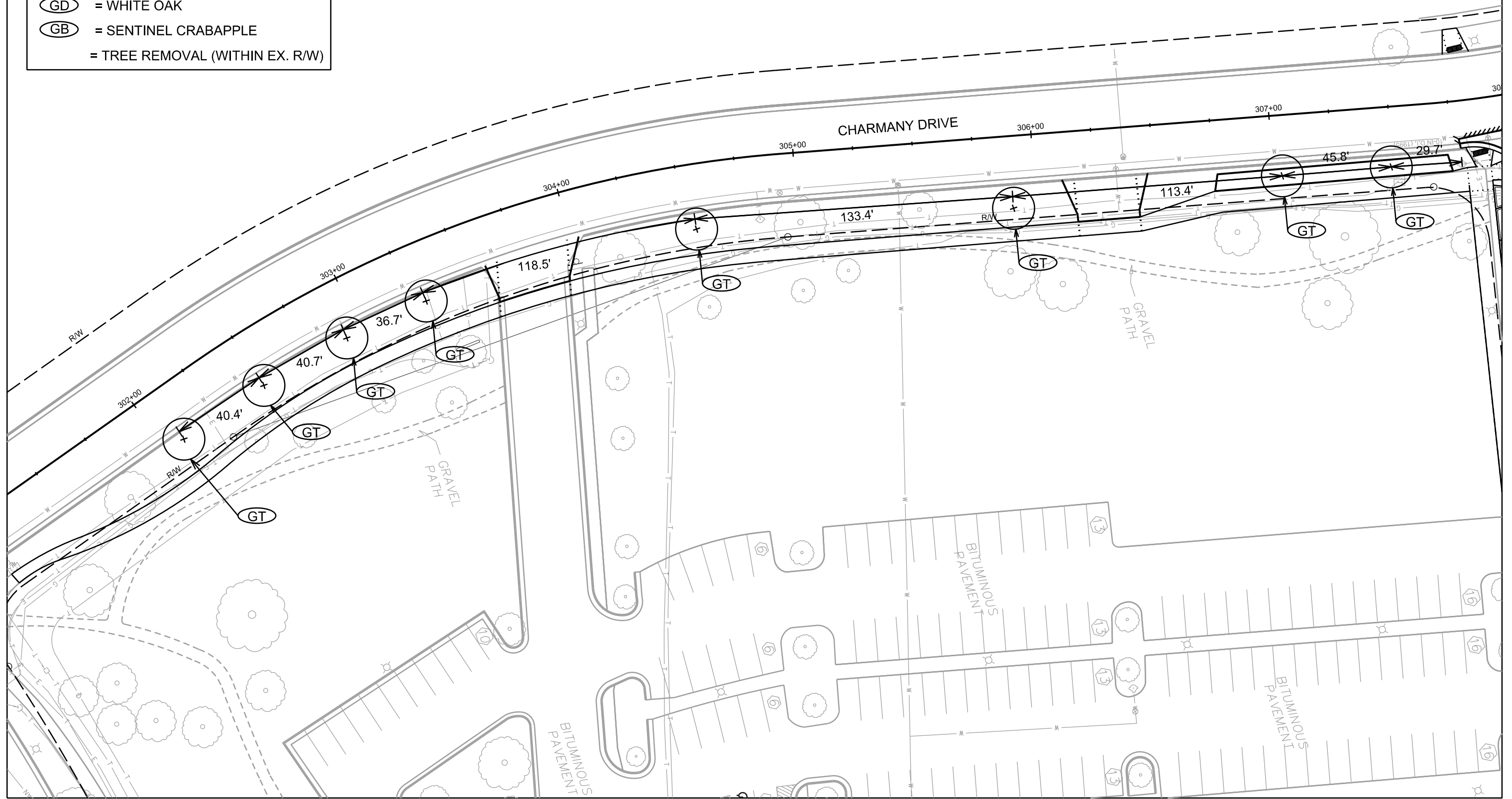




**TREE KEY:**

- (CE) = HACKBERRY
- (GT) = SKYLINE HONEY LOCUST
- (GD) = WHITE OAK
- (GB) = SENTINEL CRABAPPLE
- (X) = TREE REMOVAL (WITHIN EX. R/W)

PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION





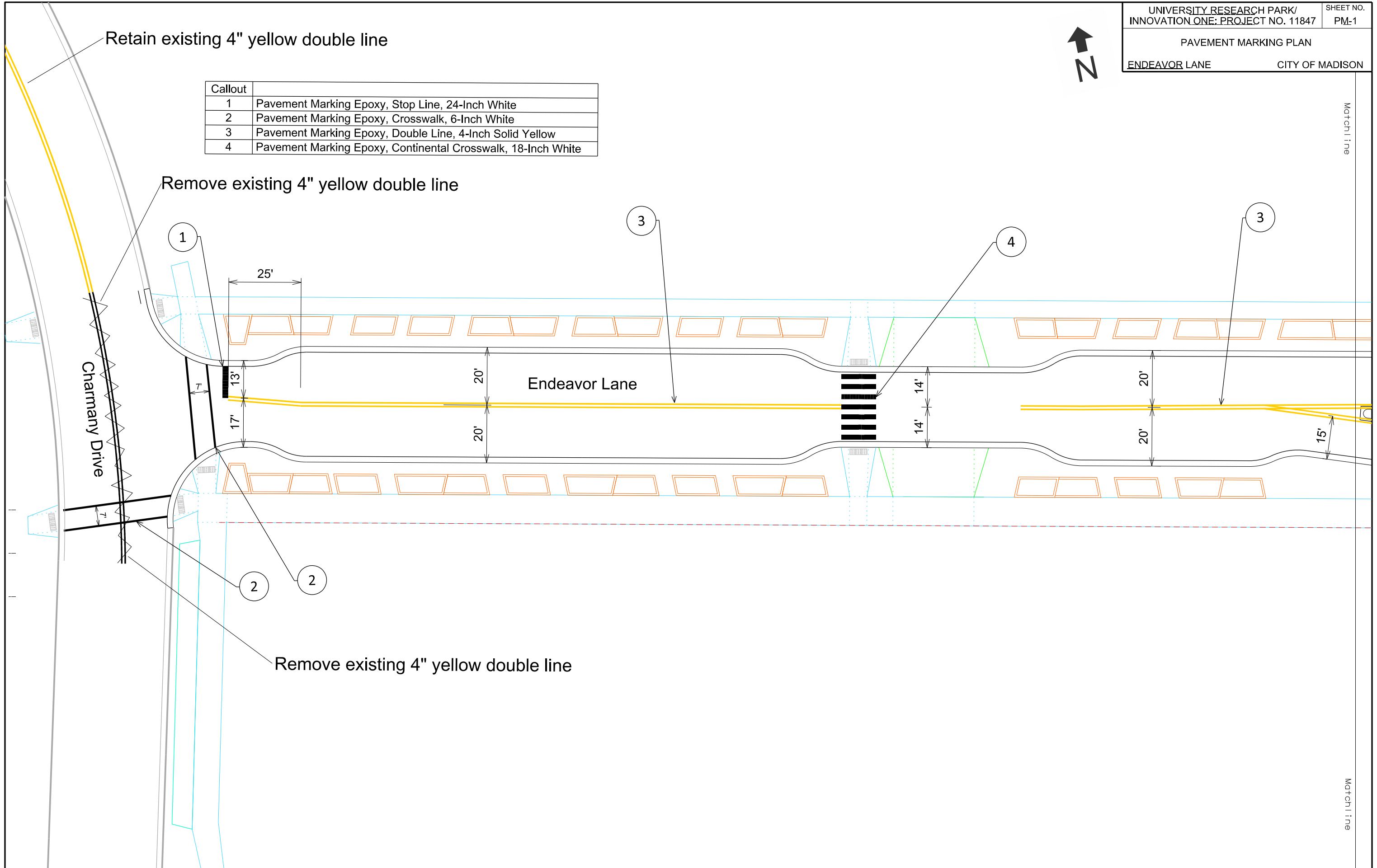
Callout	Description
1	Pavement Marking Epoxy, Stop Line, 24-Inch White
2	Pavement Marking Epoxy, Crosswalk, 6-Inch White
3	Pavement Marking Epoxy, Double Line, 4-Inch Solid Yellow
4	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch White

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Retain existing 4" yellow double line

Remove existing 4" yellow double line

Remove existing 4" yellow double line

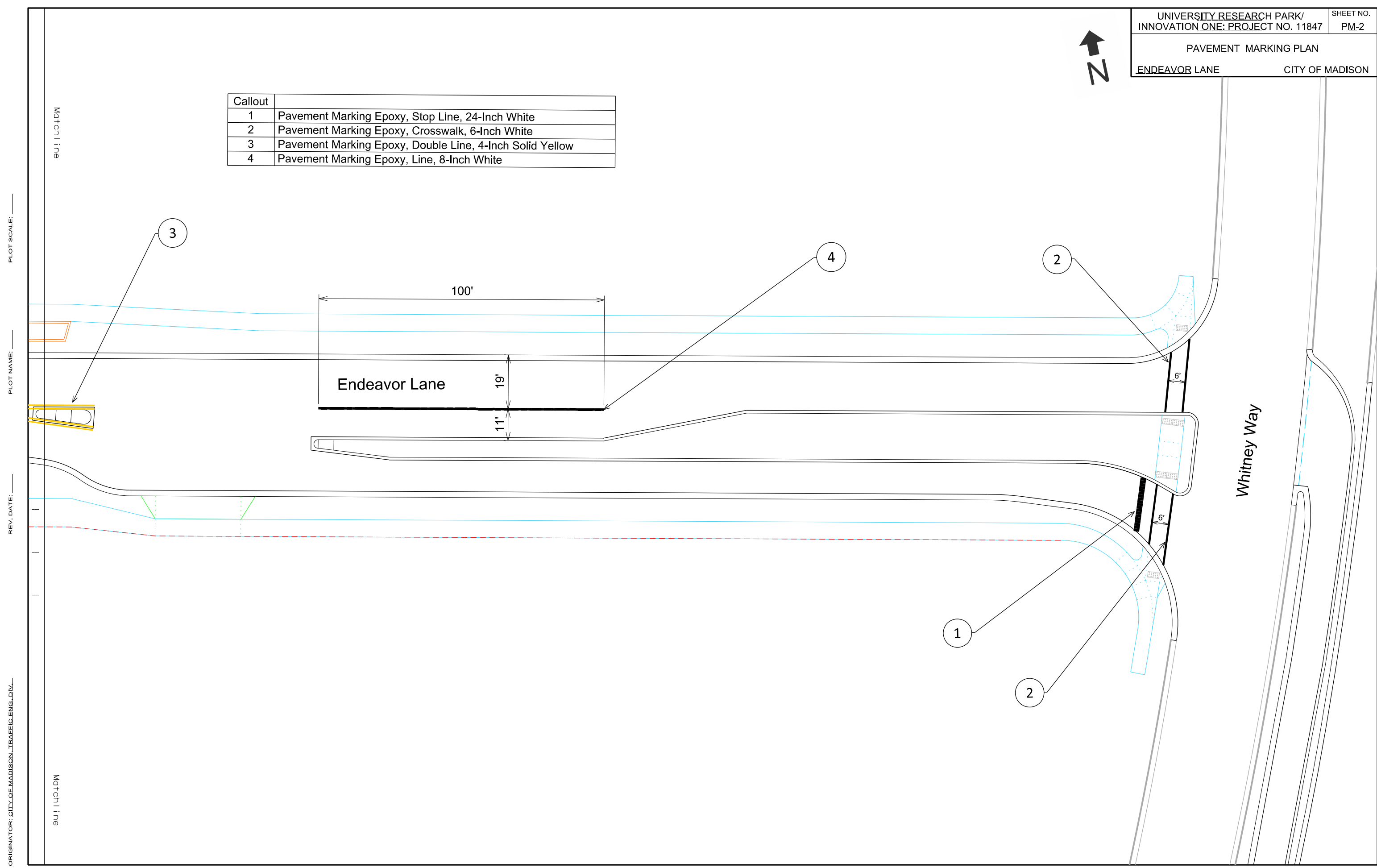
Match line

Match line





Callout	Description
1	Pavement Marking Epoxy, Stop Line, 24-Inch White
2	Pavement Marking Epoxy, Crosswalk, 6-Inch White
3	Pavement Marking Epoxy, Double Line, 4-Inch Solid Yellow
4	Pavement Marking Epoxy, Line, 8-Inch White



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.