

Madison, Wisconsin

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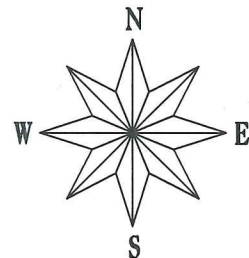
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CITY OF MADISON

CITY ENGINEERING DIVISION

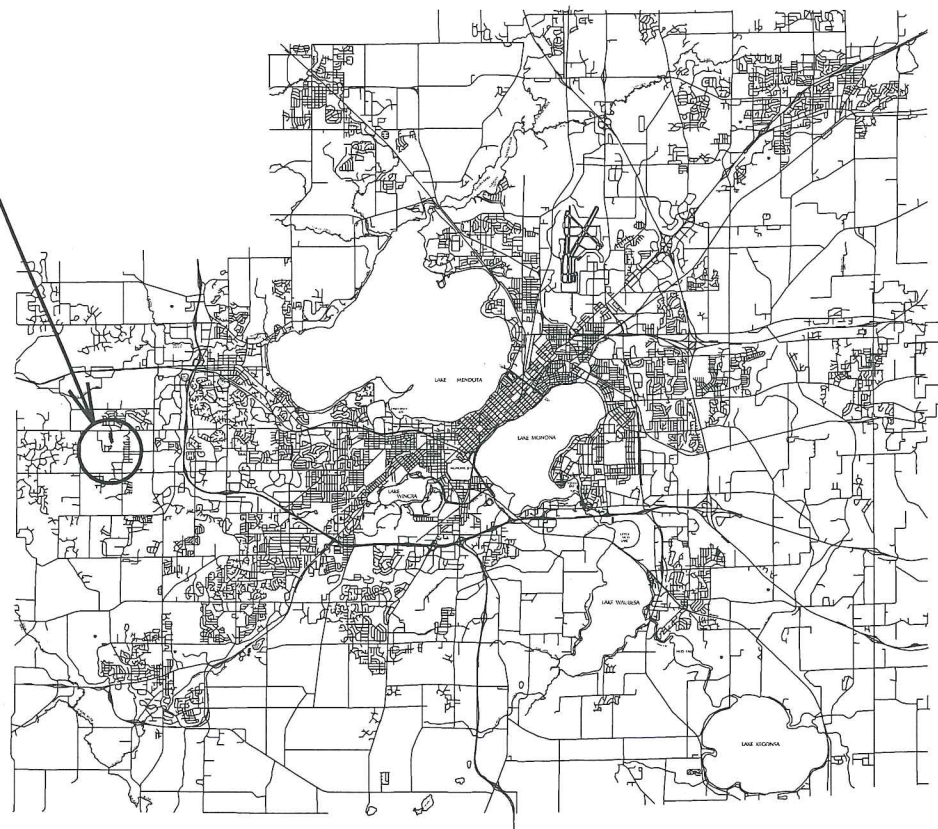
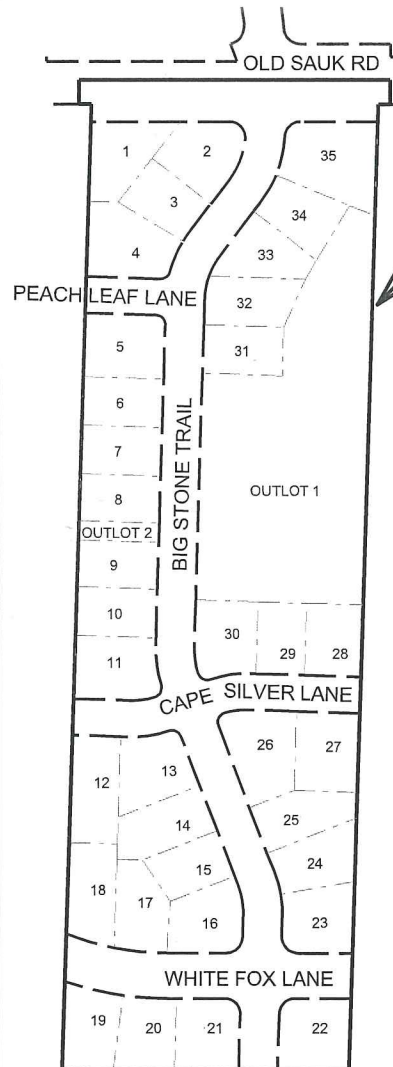
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT



THE WILLOWS
 CITY PROJECT NO. 10832
 CITY CONTRACT NO. 2428
 MUNIS NO. 10832


PROJECT LOCATION




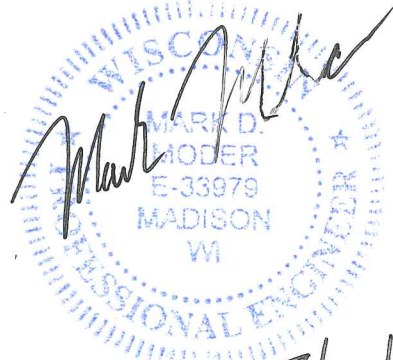
PUBLIC IMPROVEMENT PROJECT
 APPROVED
 MAY 19, 2015
 BY THE COMMON COUNCIL
 OF MADISON, WISCONSIN

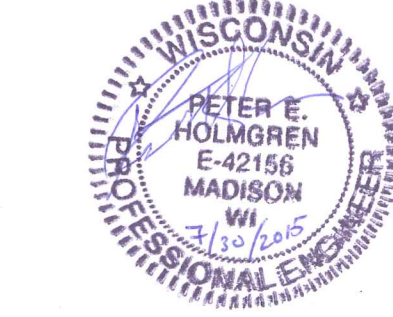
PUBLIC IMPROVEMENT DESIGN
 APPROVED BY:


 City Engineer
 8/7/15
 Date

STREET
 DESIGNED BY:


ELECTRICAL
 DESIGNED BY:


SANITARY SEWER
 DESIGNED BY:


WATER
 DESIGNED BY:


STORM SEWER
 DESIGNED BY:


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.

THE DEVELOPER/CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY OF MADISON TRAFFIC ENGINEERING DIVISION A MINIMUM OF 10 WORKING DAYS PRIOR TO THE ANTICIPATED START OF WORK.

BIG STONE TRAIL, PEACH LEAF LANE, CAPE SILVER LANE, AND WHITE FOX LANE 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 GRADES OF 0.5% TOWARD STORM SEWER INLETS.

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4:00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

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

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

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

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

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

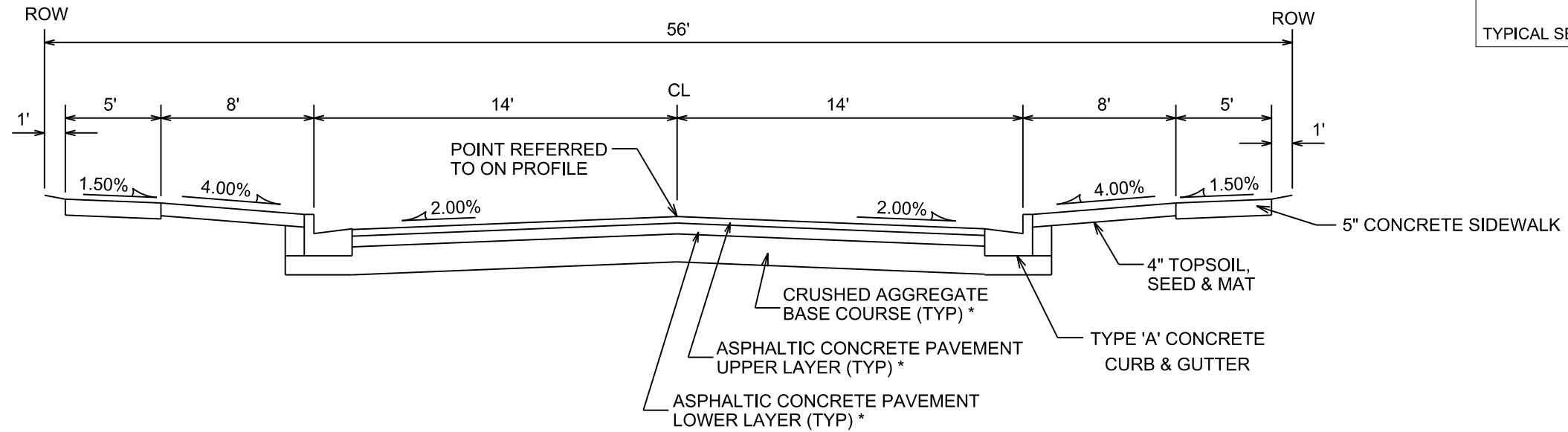
CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

PLOT SCALE:

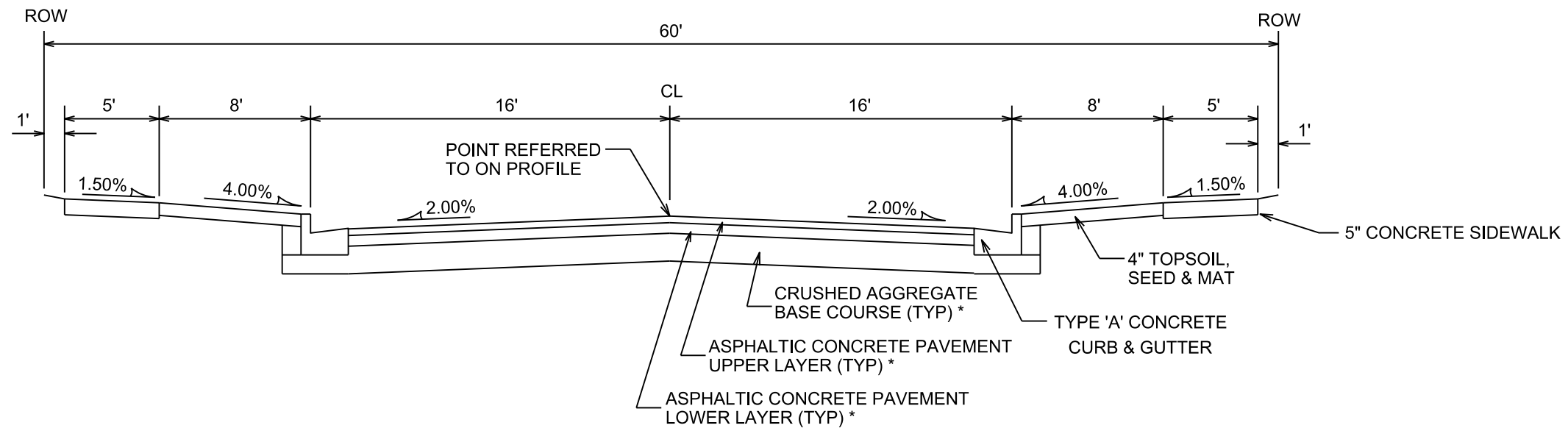
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION
PEACH LEAF LANE
CAPE SILVER LANE



TYPICAL SECTION
BIG STONE TRAIL

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	UPPER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.25"	E-1	2"
C	6"	4"	E-3	3.25"	E-3	2"

NOTES:

TYPICAL SECTIONS NOT TO SCALE

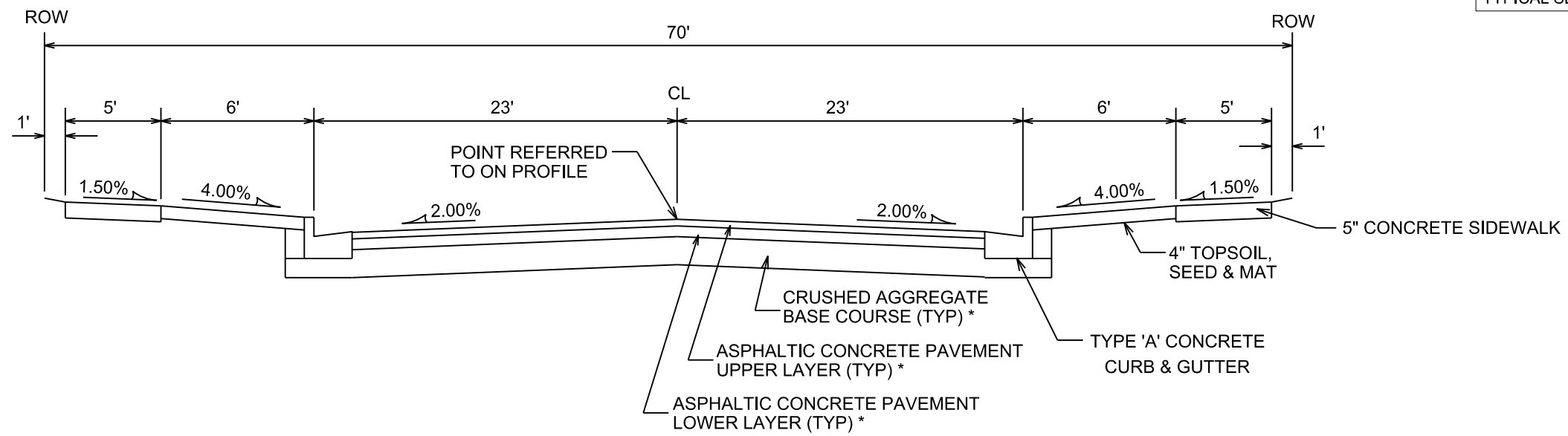
* ROADWAY TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT
PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

PLOT SCALE:

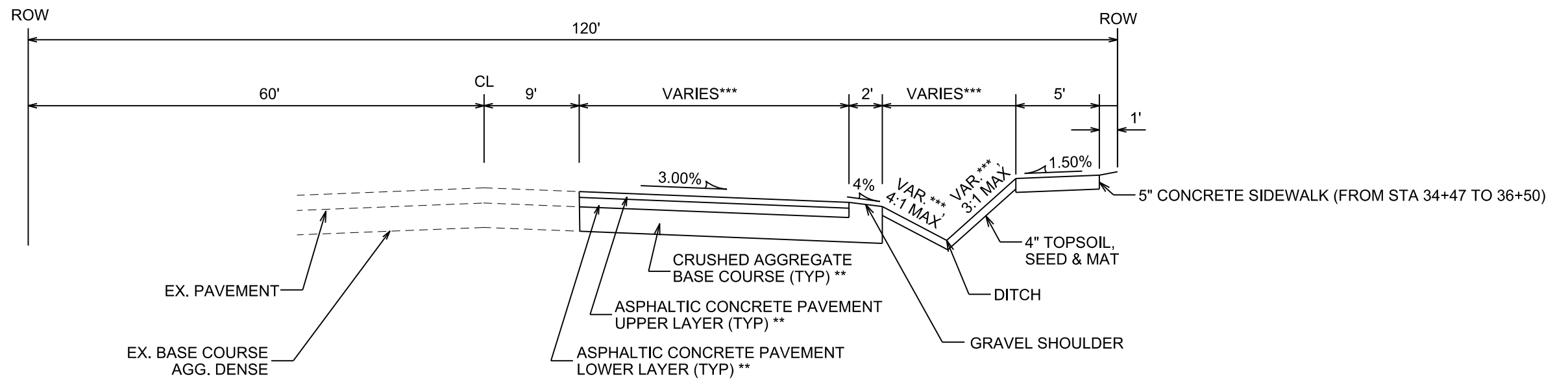
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION
WHITE FOX LANE



TYPICAL SECTION
OLD SAUK ROAD
STA 32+47 TO STA 37+06

NOTES:

TYPICAL SECTIONS NOT TO SCALE

* WHITE FOX LANE TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.

** OLD SAUK ROAD TO BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.

*** SEE CROSS SECTIONS FOR SLOPES, OFFSETS, AND ELEVATIONS.

CITY OF MADISON MINIMUM PAVEMENT DESIGN

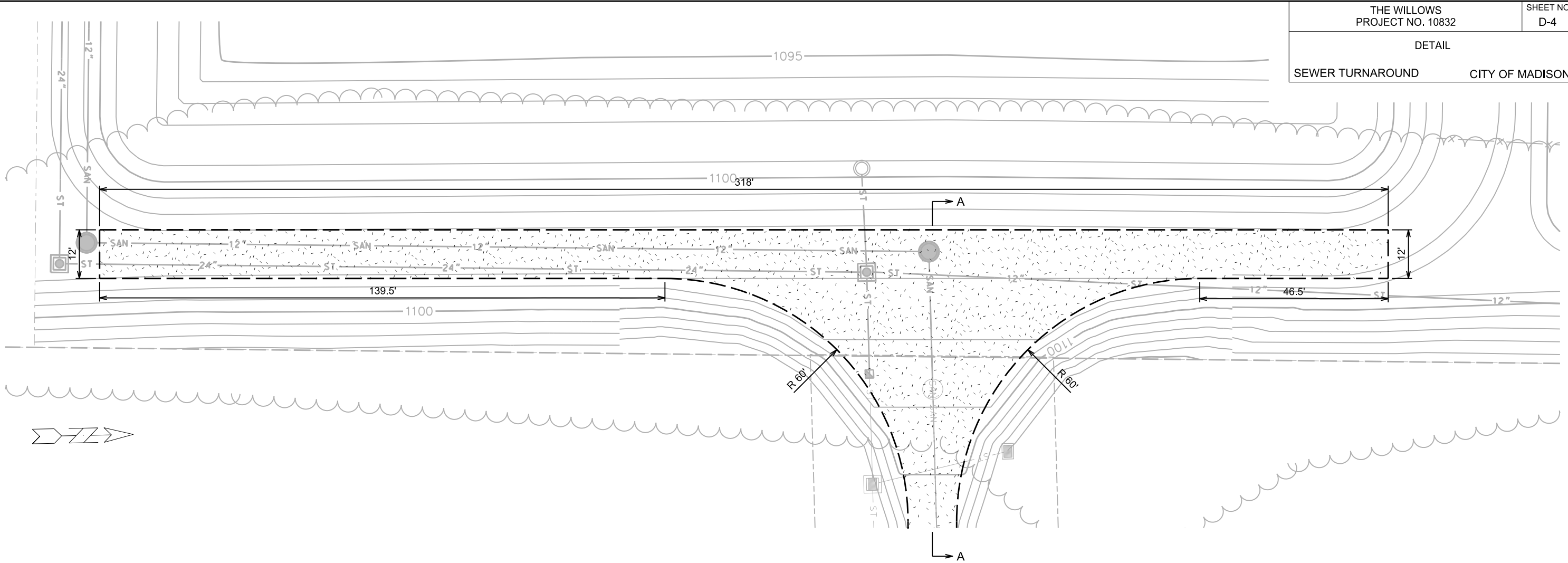
TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	LOWER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.25"	E-1	2"
C	6"	4"	E-3	3.25"	E-3	2"

PLOT SCALE:

PLOT NAME:

REV. DATE:

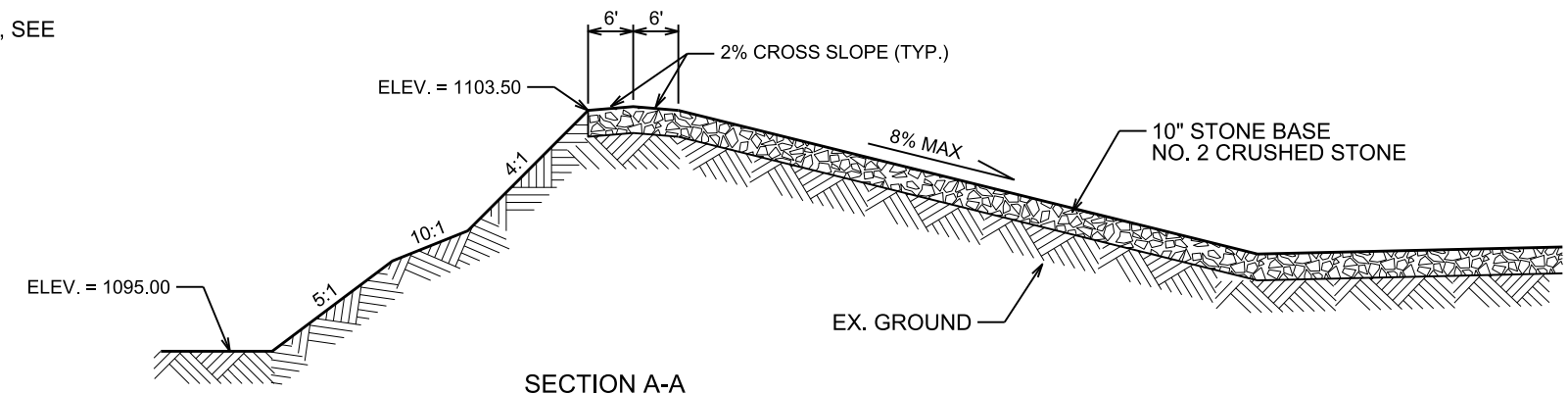
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SEWER ACCESS ROAD TURNAROUND
SCALE: 1"=25'

NOTES

- 1) SEWER ACCESS ROAD SHALL BE CONSTRUCTED WITH THE PLAN DIMENSIONS AND IN ACCORDANCE WITH S.D.D. 5.1.4A.
- 2) POND CONTOURS ARE FOR REFERENCE ONLY, SEE DETAIL SHEET FOR POND GRADING.



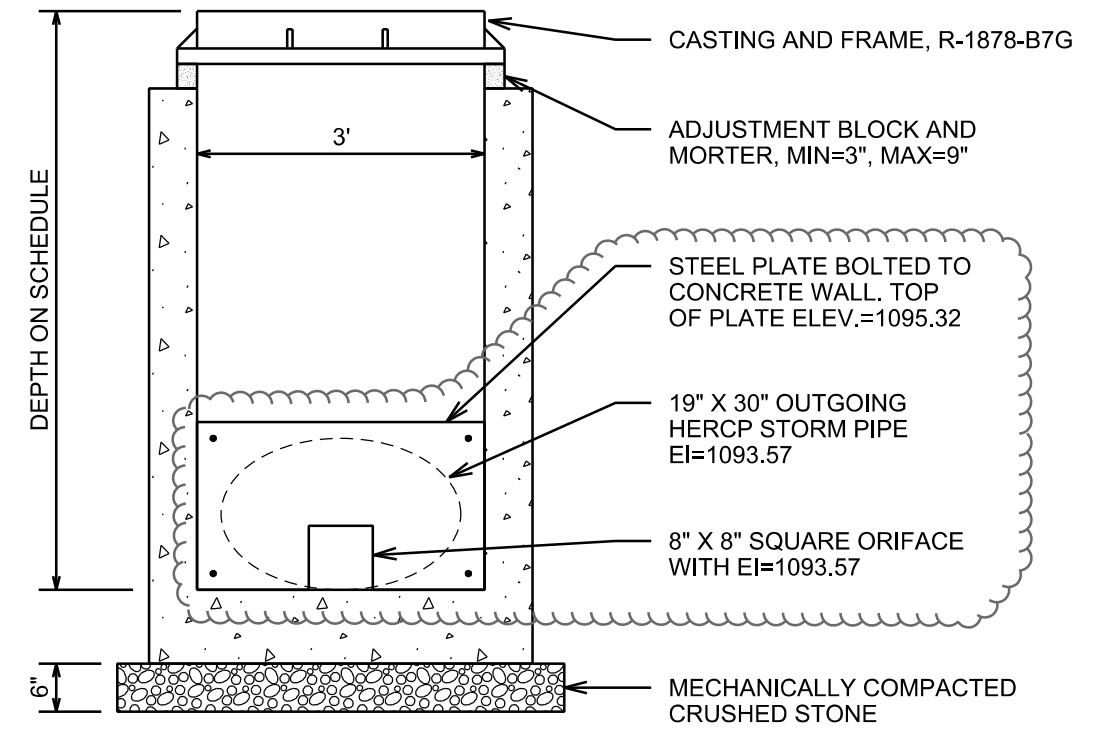
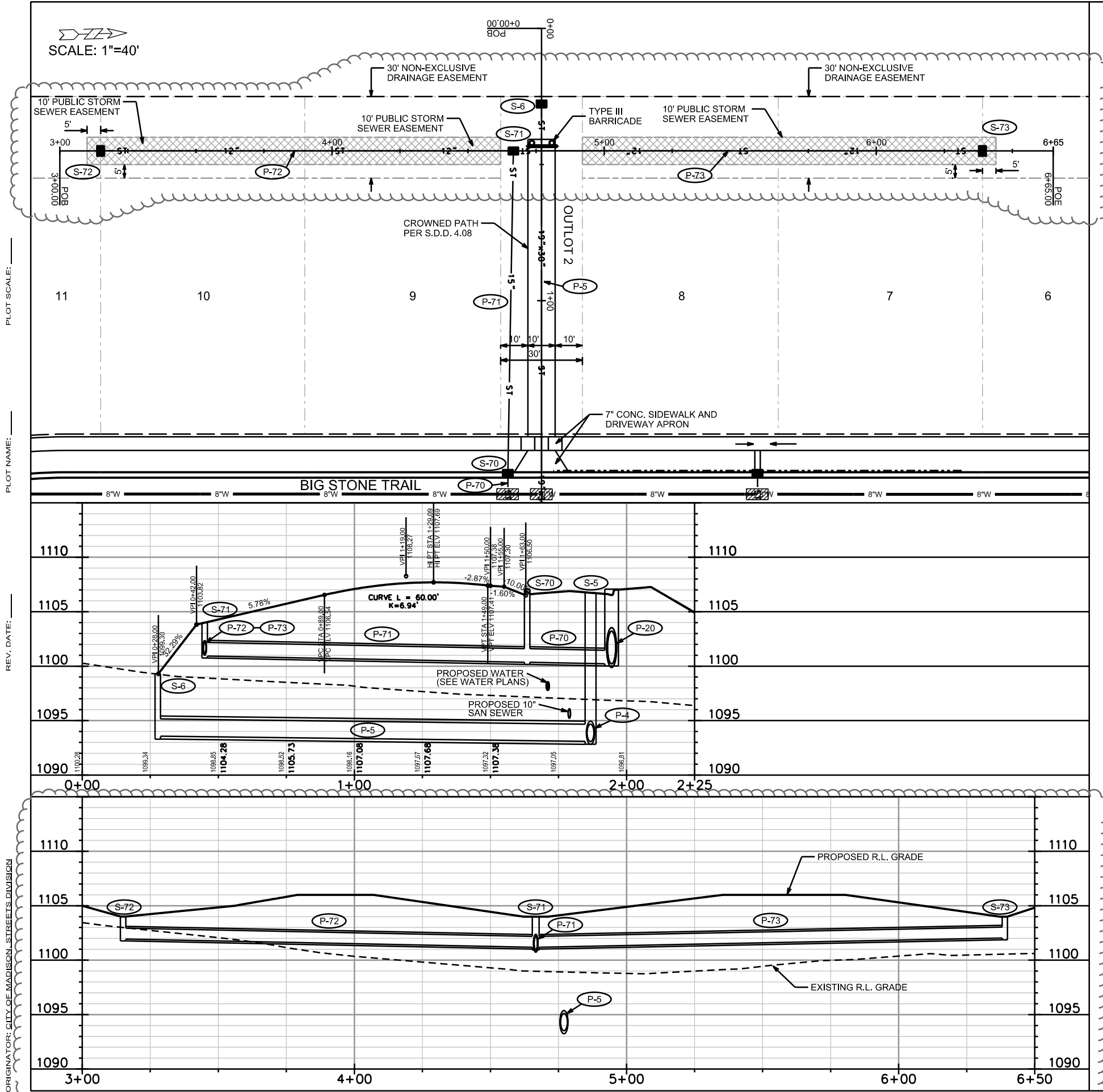
SECTION A-A
NOT TO SCALE

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



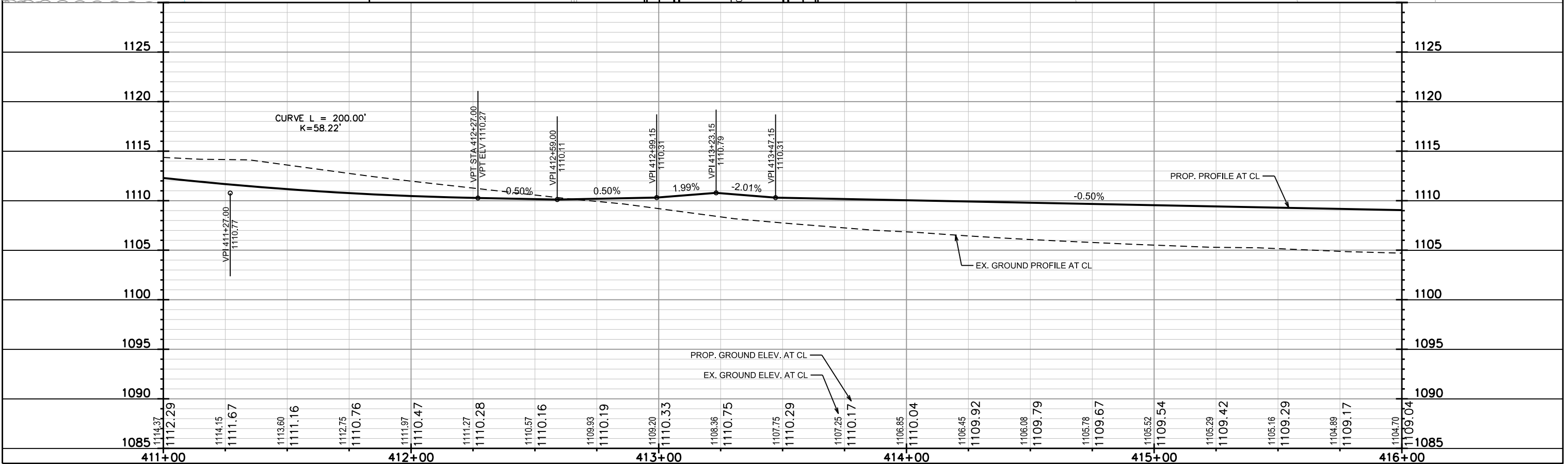
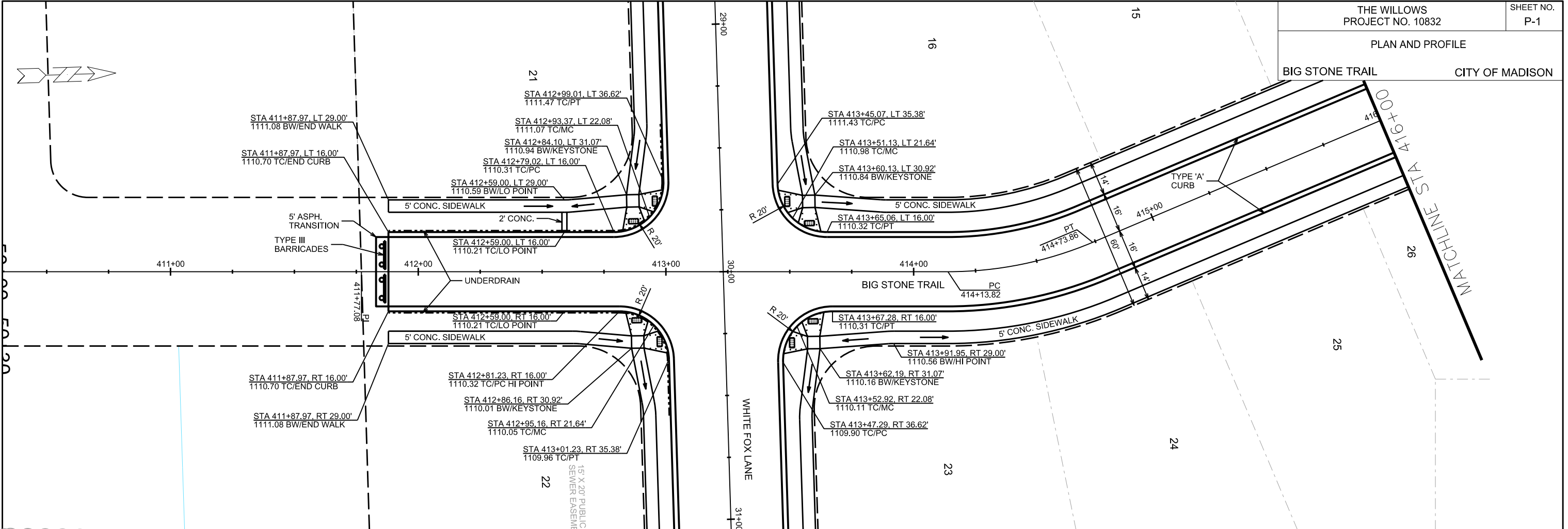
S-6 DETAIL
NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



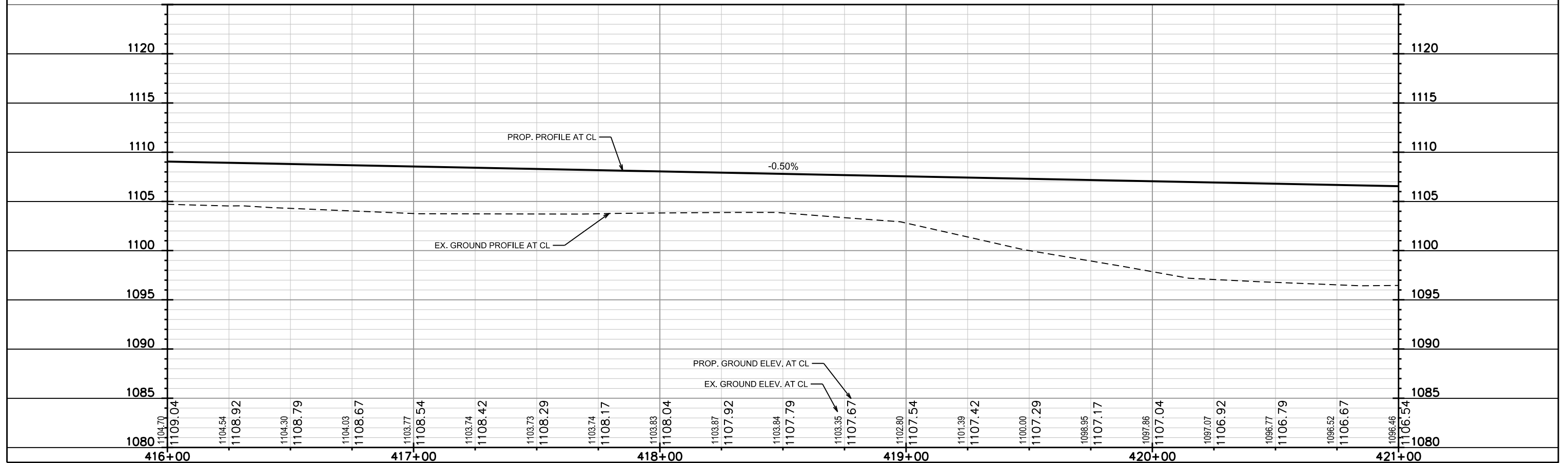
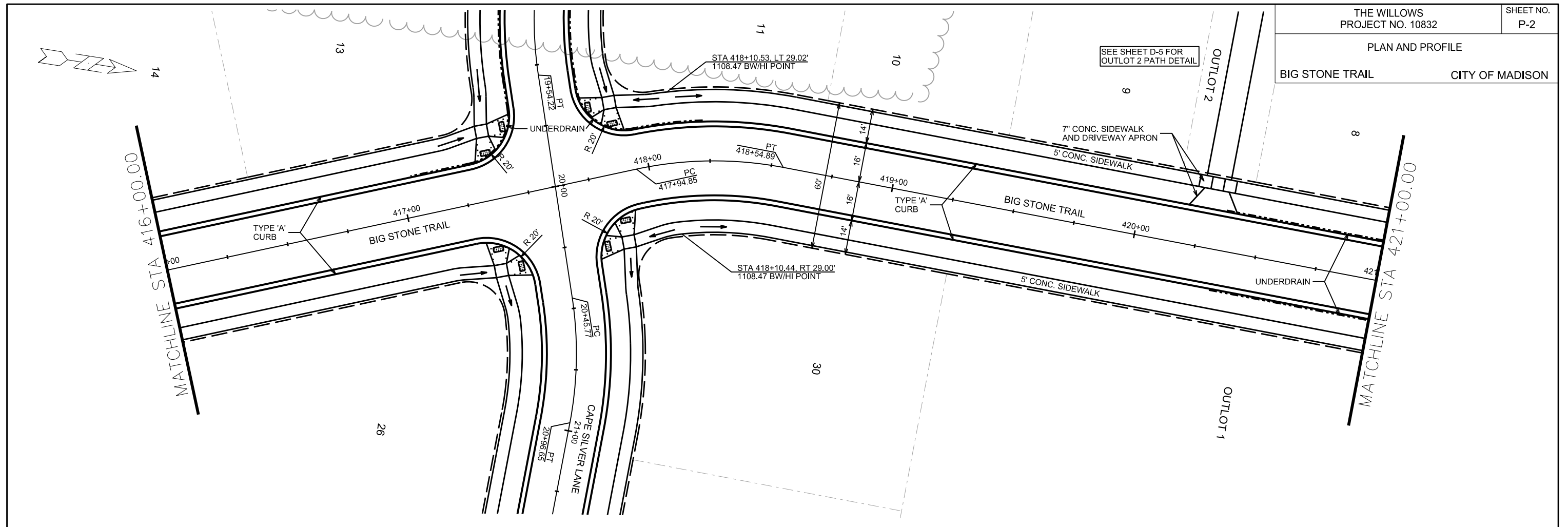
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
BIG STONE TRAIL CITY OF MADISON



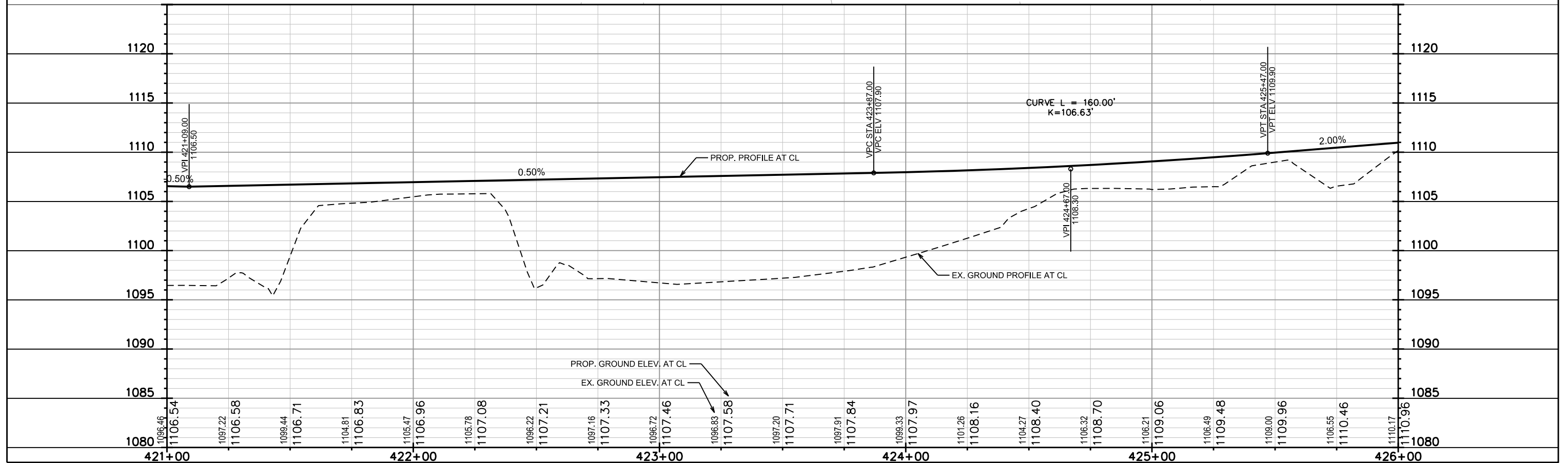
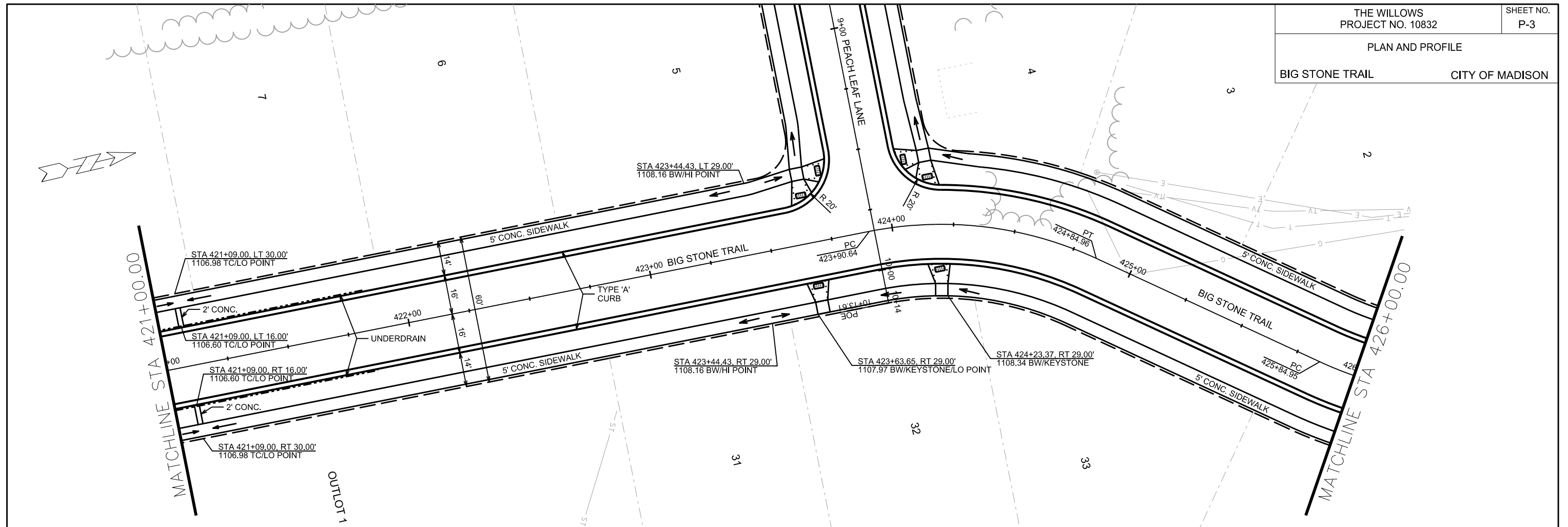
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
BIG STONE TRAIL CITY OF MADISON



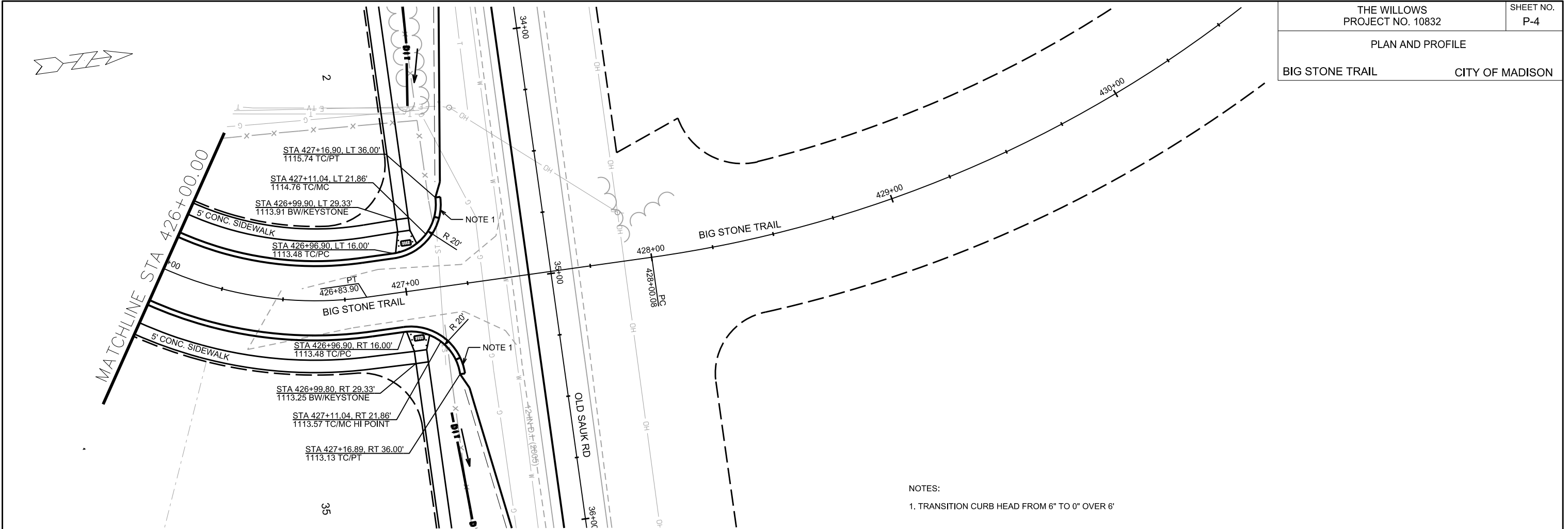
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PLOT NAME:

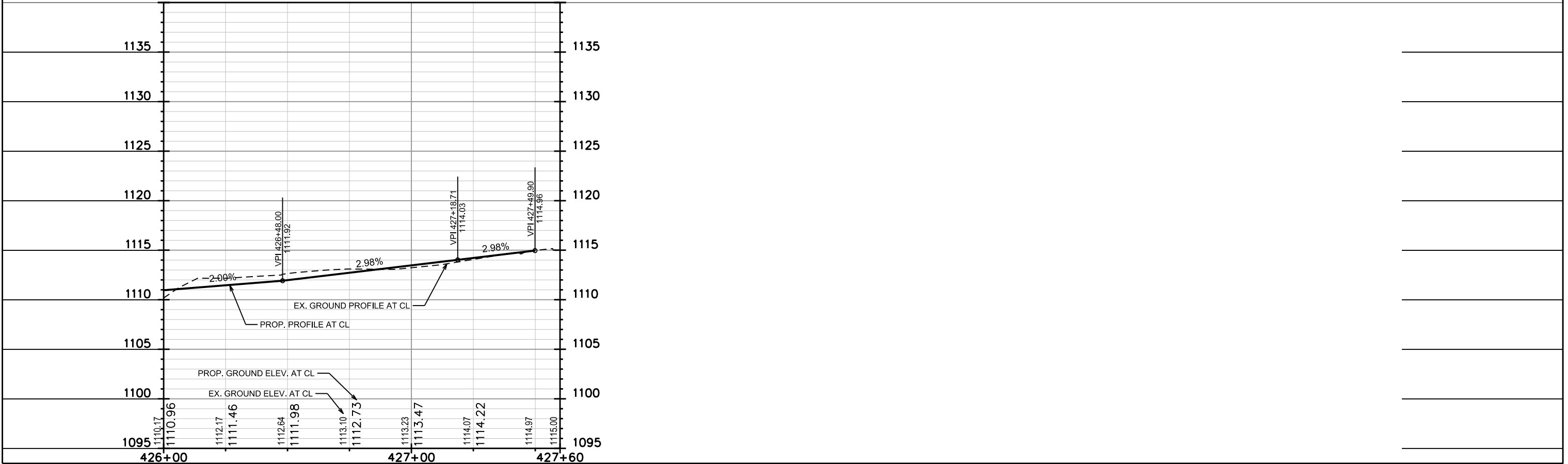
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

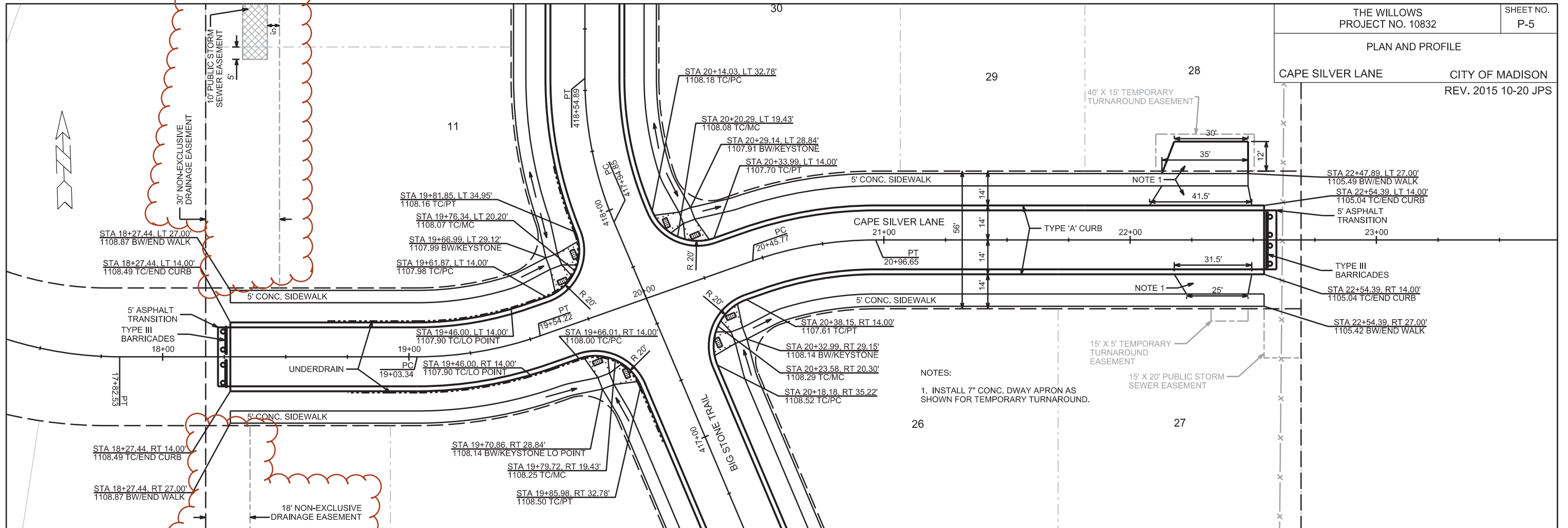
PLAN AND PROFILE
BIG STONE TRAIL CITY OF MADISON



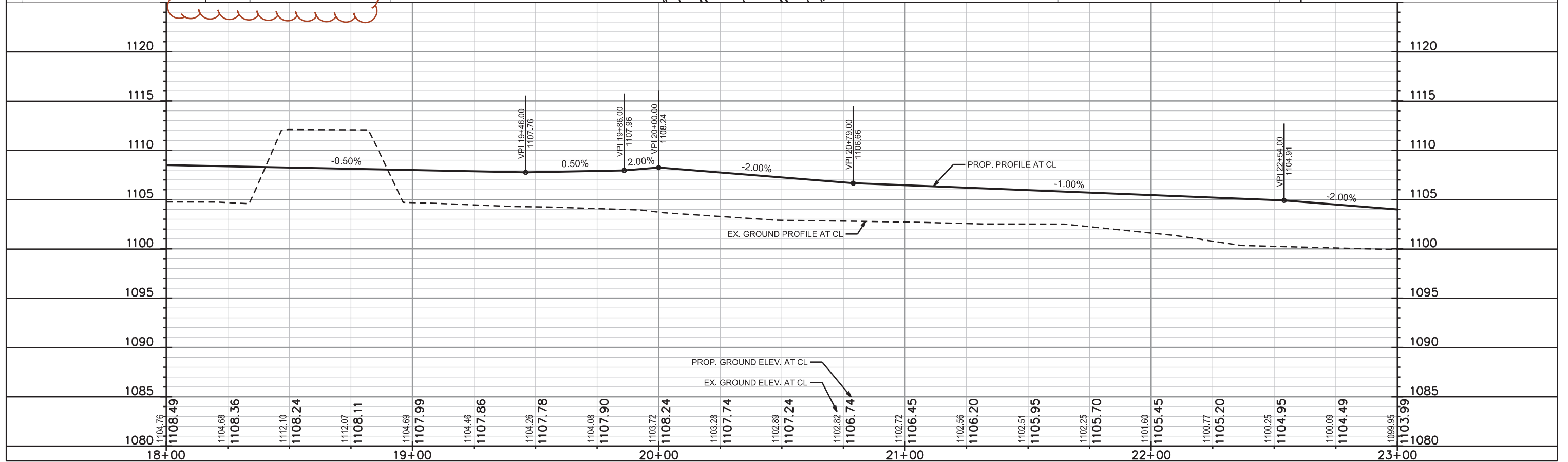
NOTES:
1. TRANSITION CURB HEAD FROM 6" TO 0" OVER 6'



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



NOTES:
1. INSTALL 7" CONC. DWAY APRON AS SHOWN FOR TEMPORARY TURNAROUND.



PLOT SCALE: _____

PLOT NAME: _____

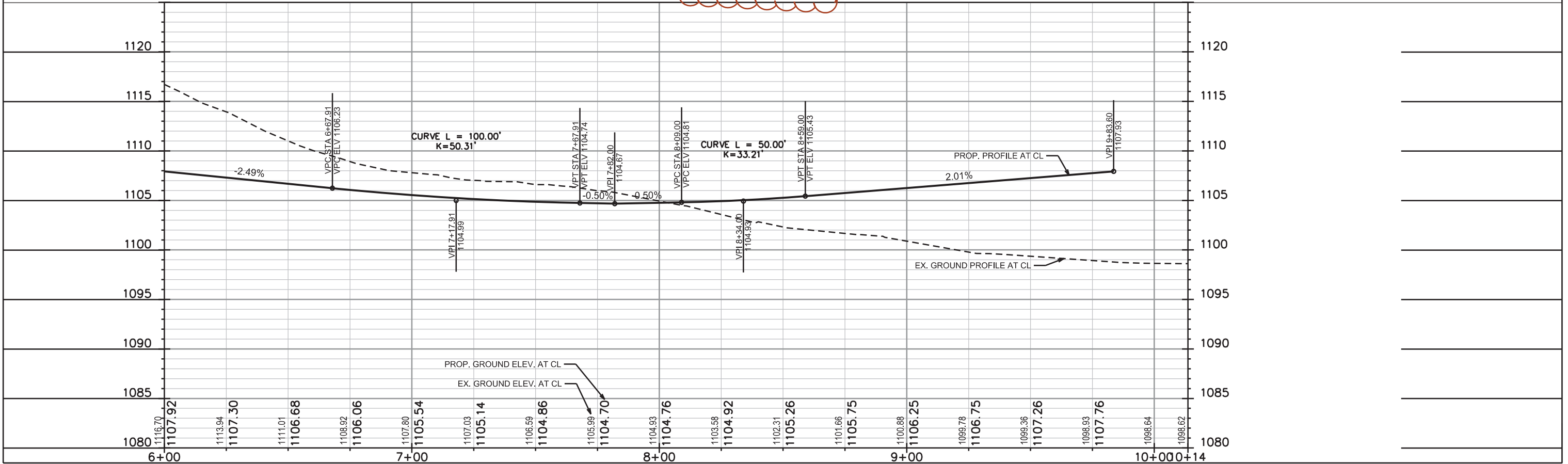
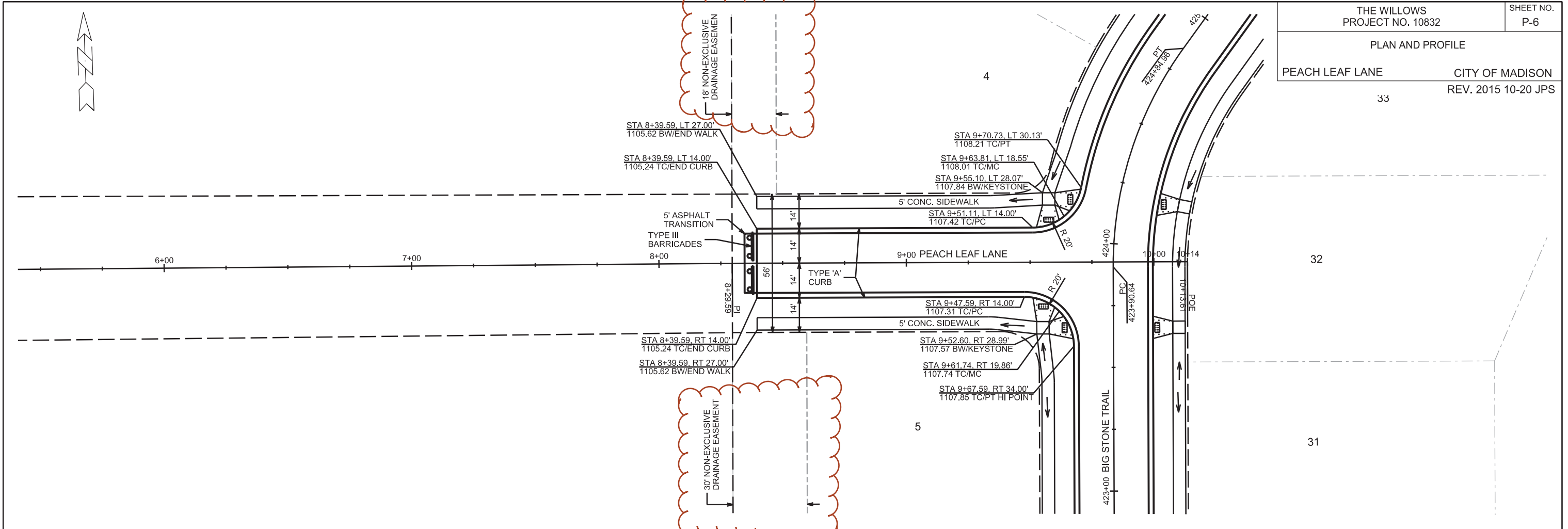
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

33

32

31

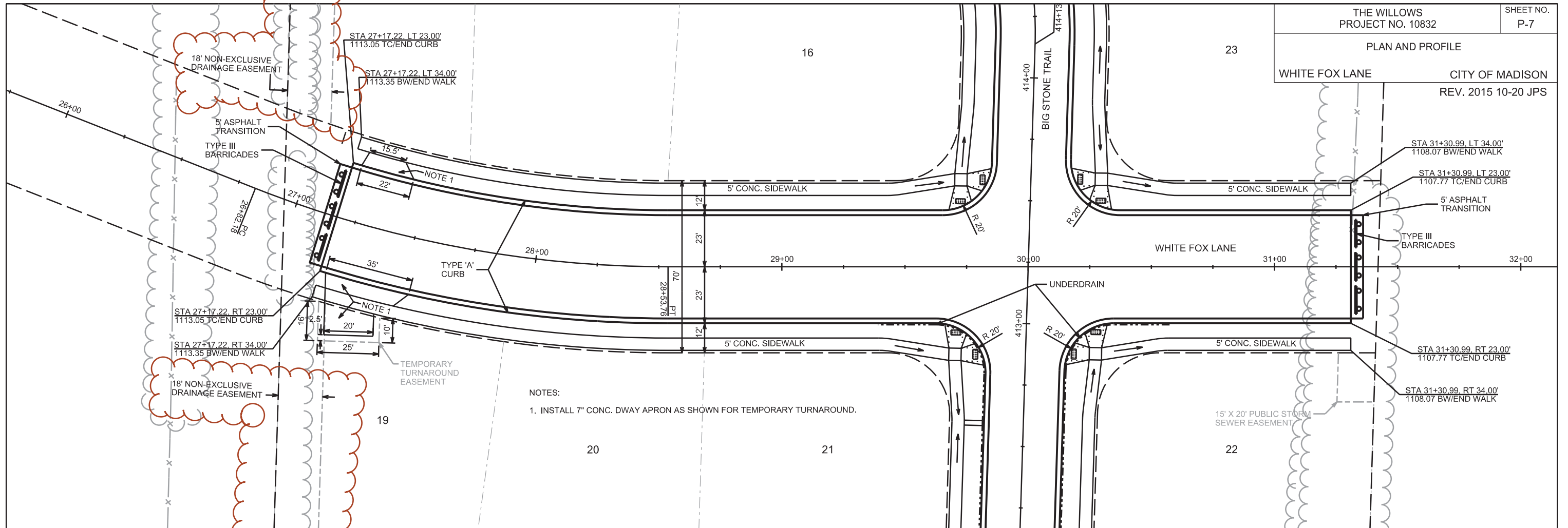


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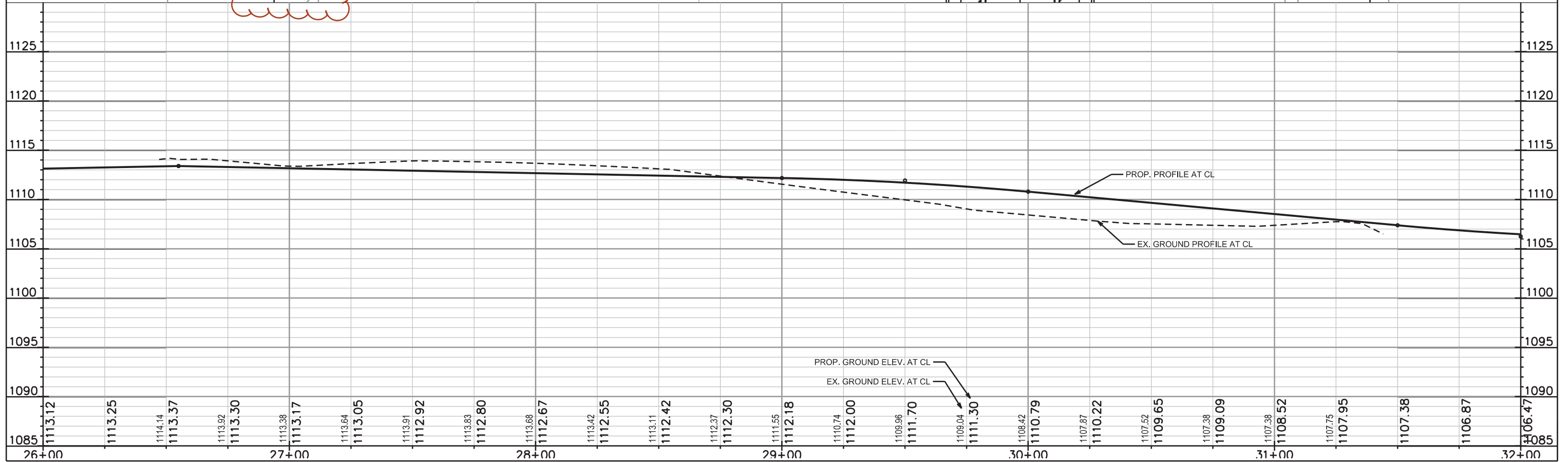
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:
1. INSTALL 7" CONC. DWAY APRON AS SHOWN FOR TEMPORARY TURNAROUND.



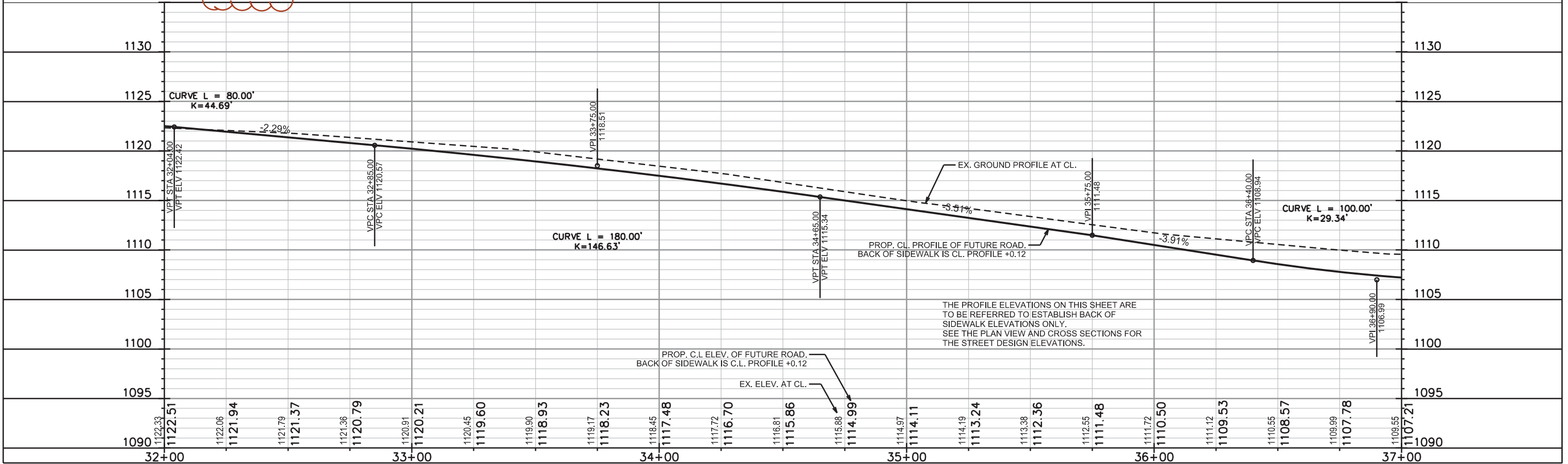
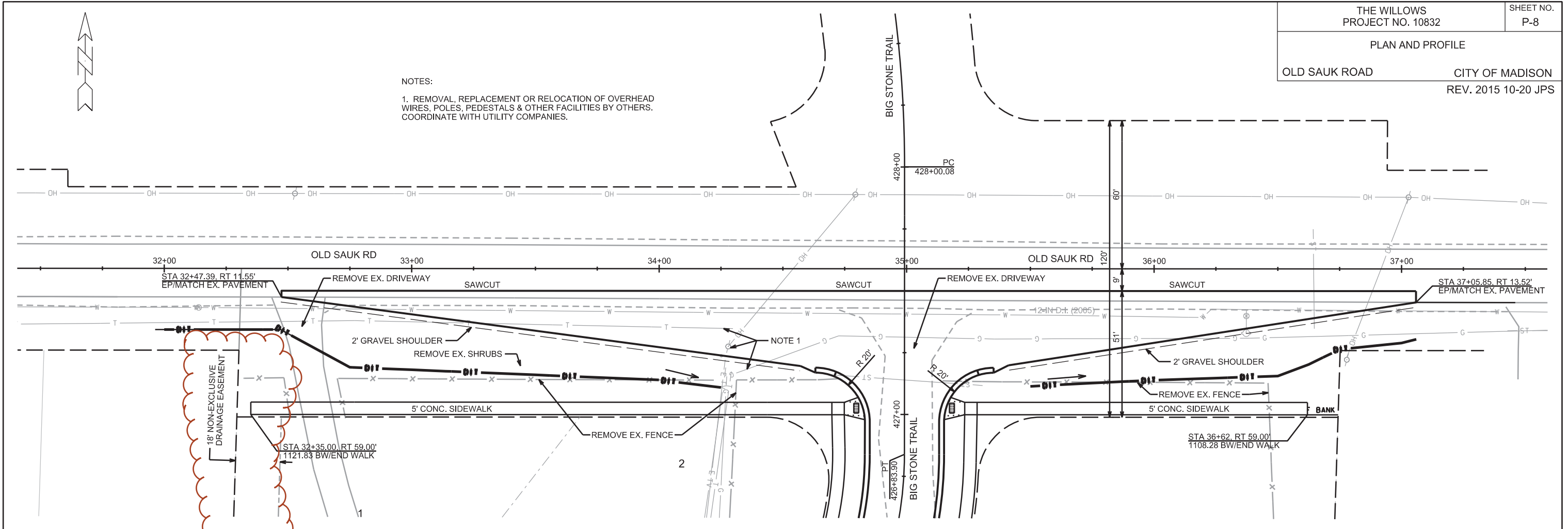
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

NOTES:
1. REMOVAL, REPLACEMENT OR RELOCATION OF OVERHEAD WIRES, POLES, PEDESTALS & OTHER FACILITIES BY OTHERS. COORDINATE WITH UTILITY COMPANIES.

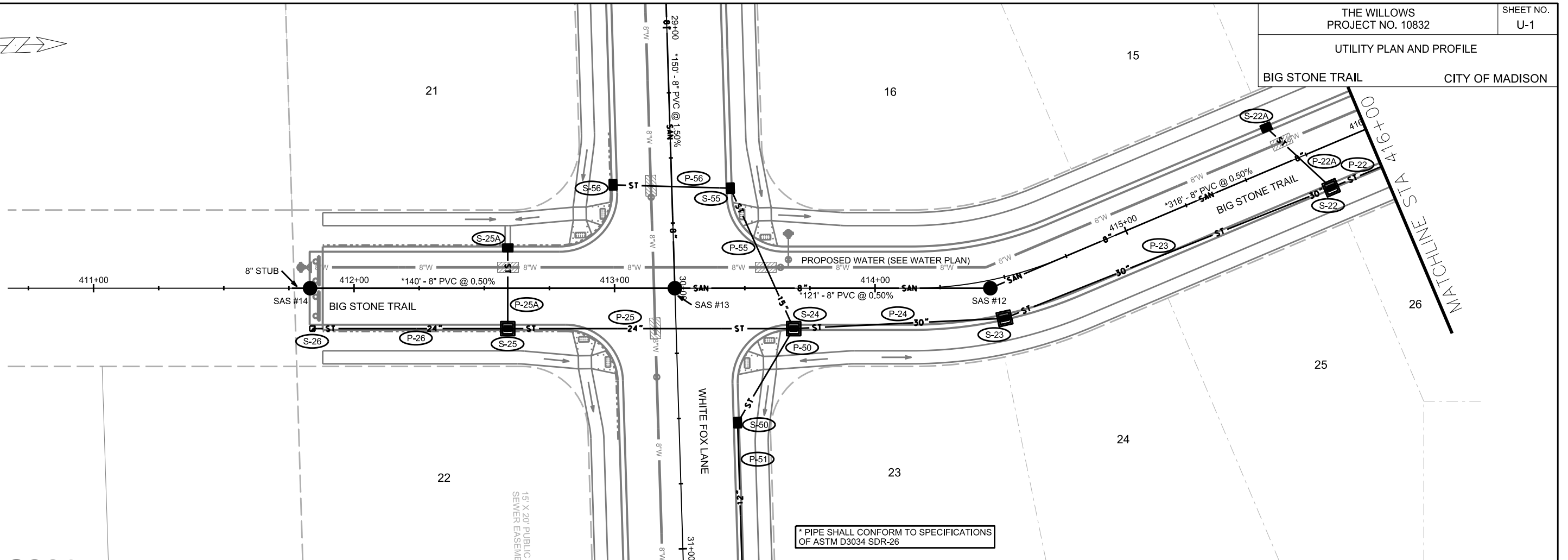


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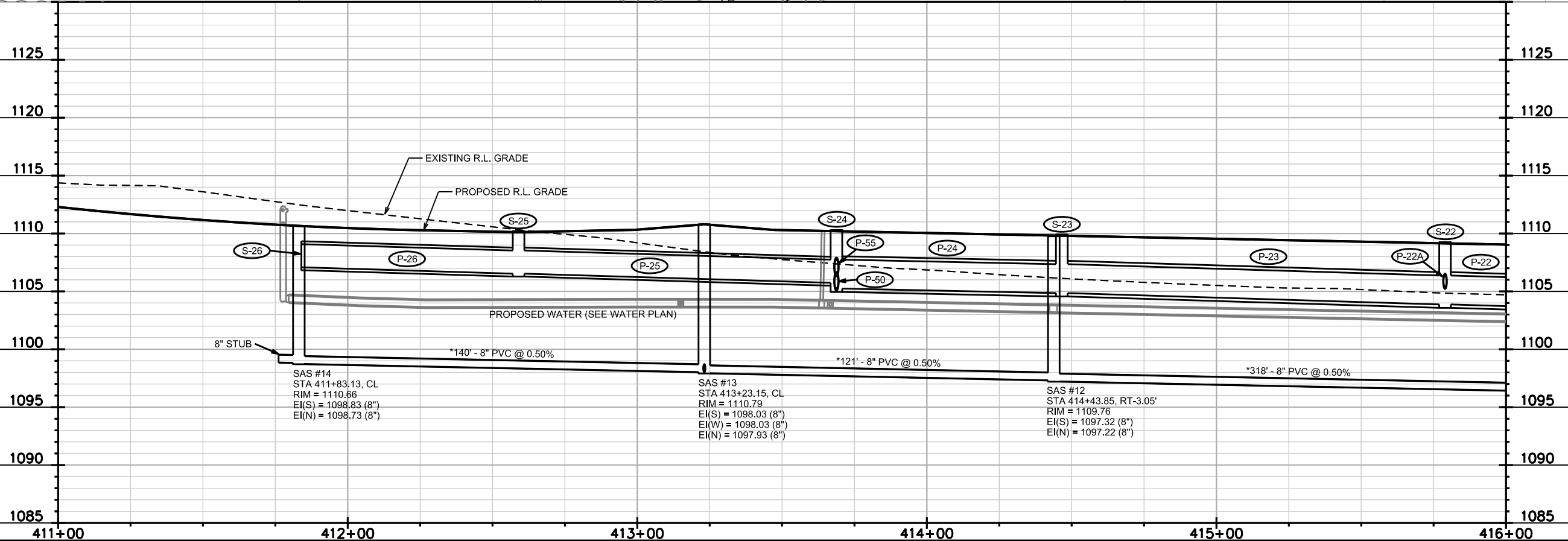
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

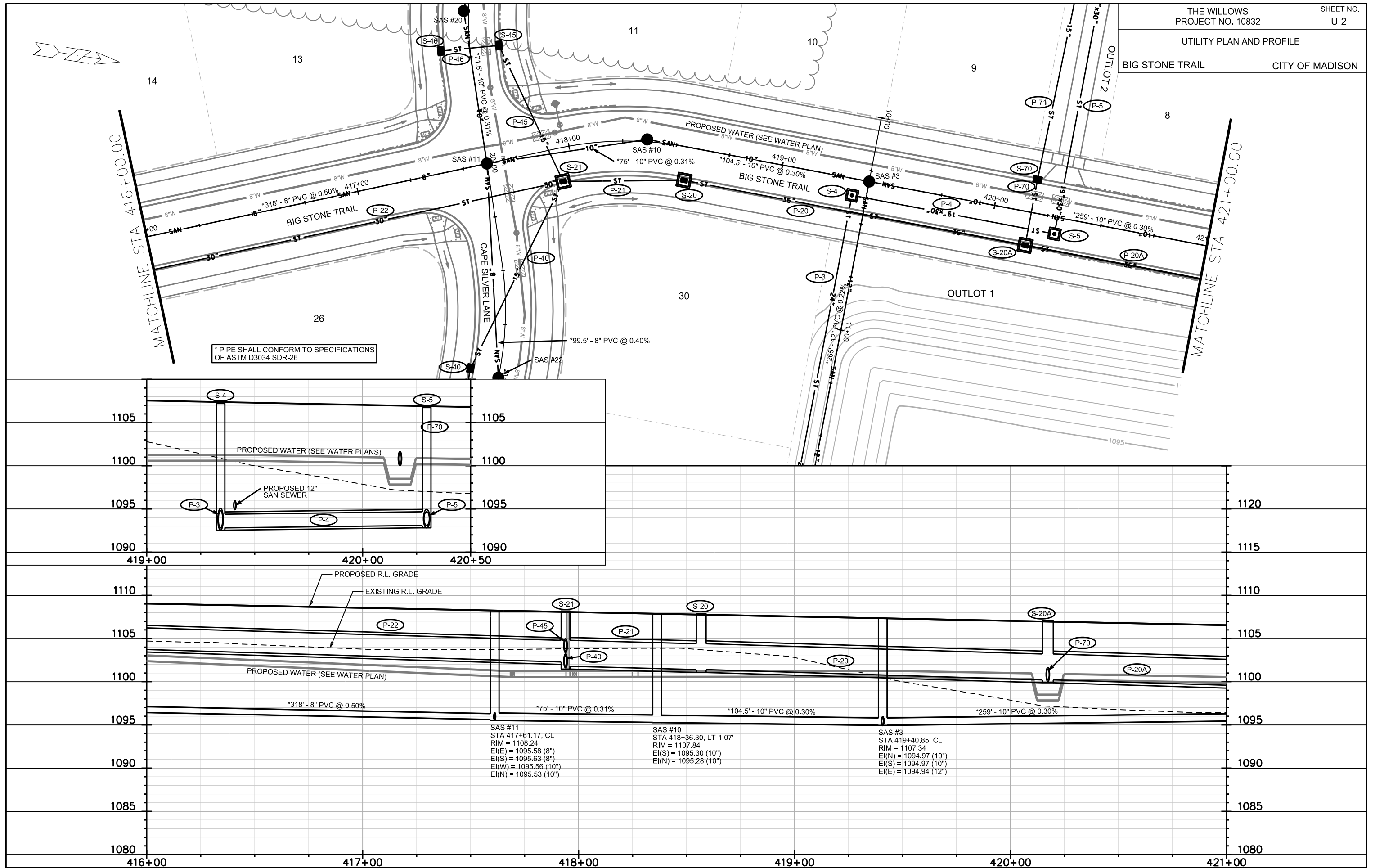


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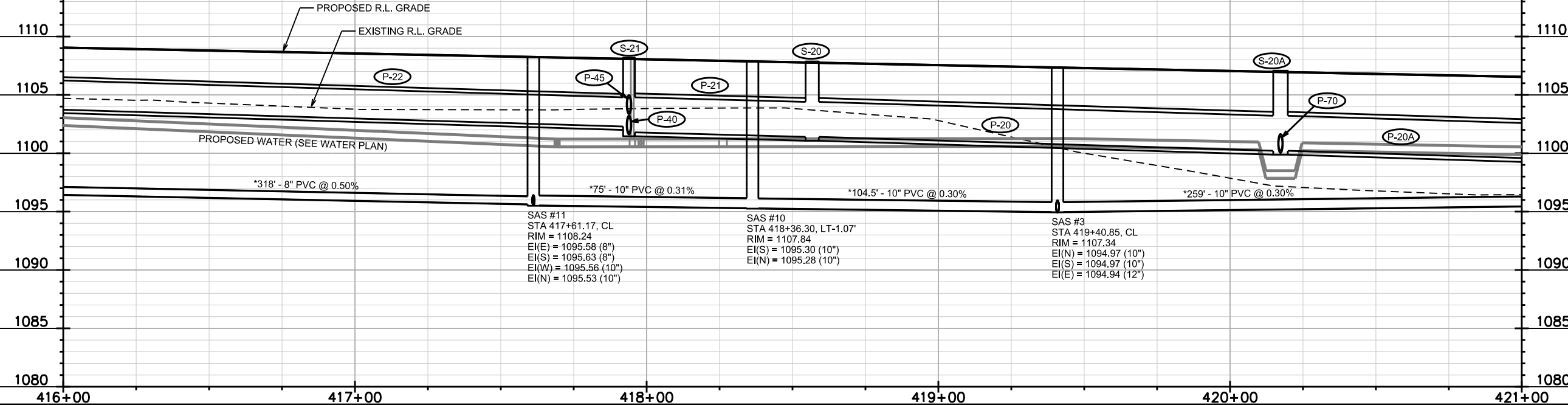
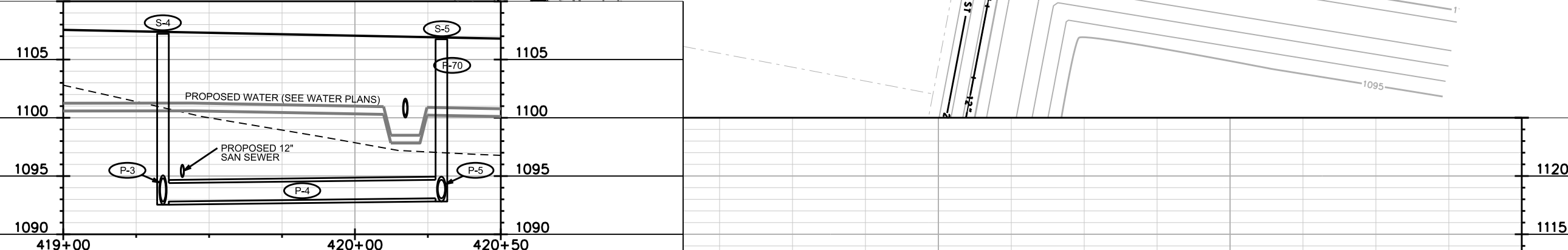
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26



SAS #11
STA 417+61.17, CL
RIM = 1108.24
EI(E) = 1095.58 (8")
EI(S) = 1095.63 (8")
EI(W) = 1095.56 (10")
EI(N) = 1095.53 (10")

SAS #10
STA 418+36.30, LT-1.07'
RIM = 1107.84
EI(S) = 1095.30 (10")
EI(N) = 1095.28 (10")

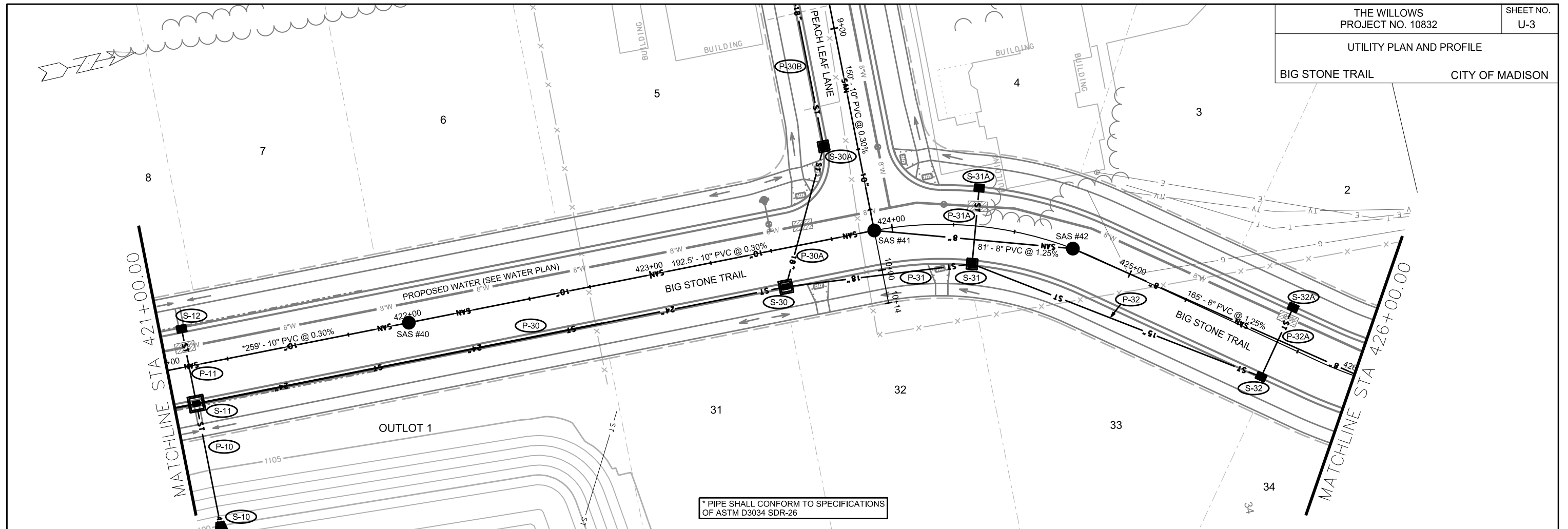
SAS #3
STA 419+40.85, CL
RIM = 1107.34
EI(N) = 1094.97 (10")
EI(S) = 1094.97 (10")
EI(E) = 1094.94 (12")

PLOT SCALE:

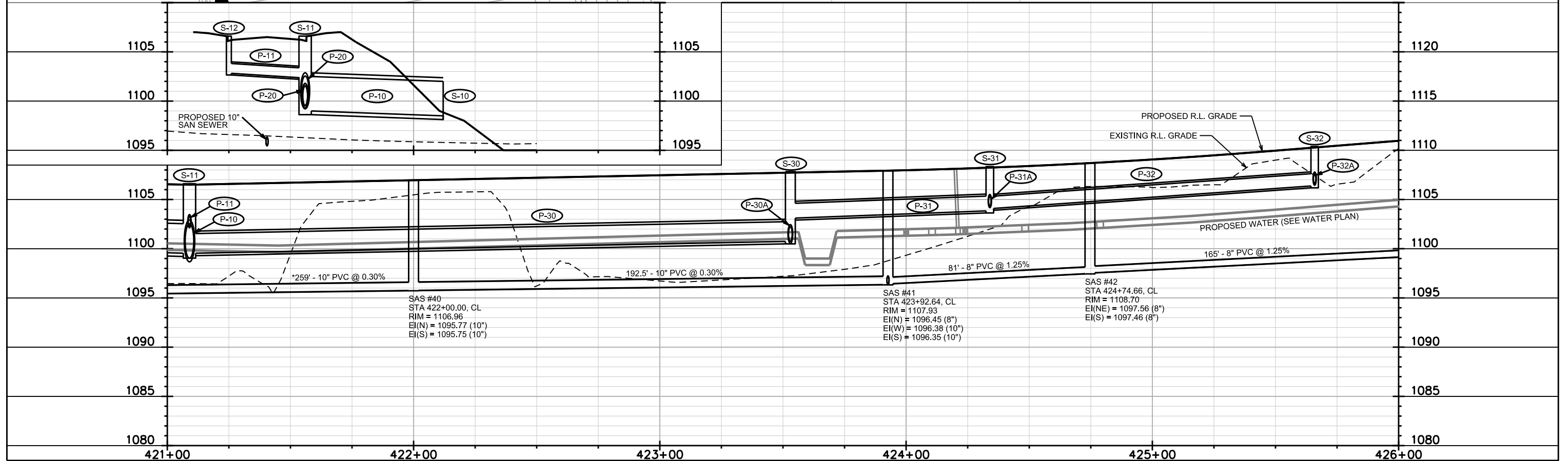
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

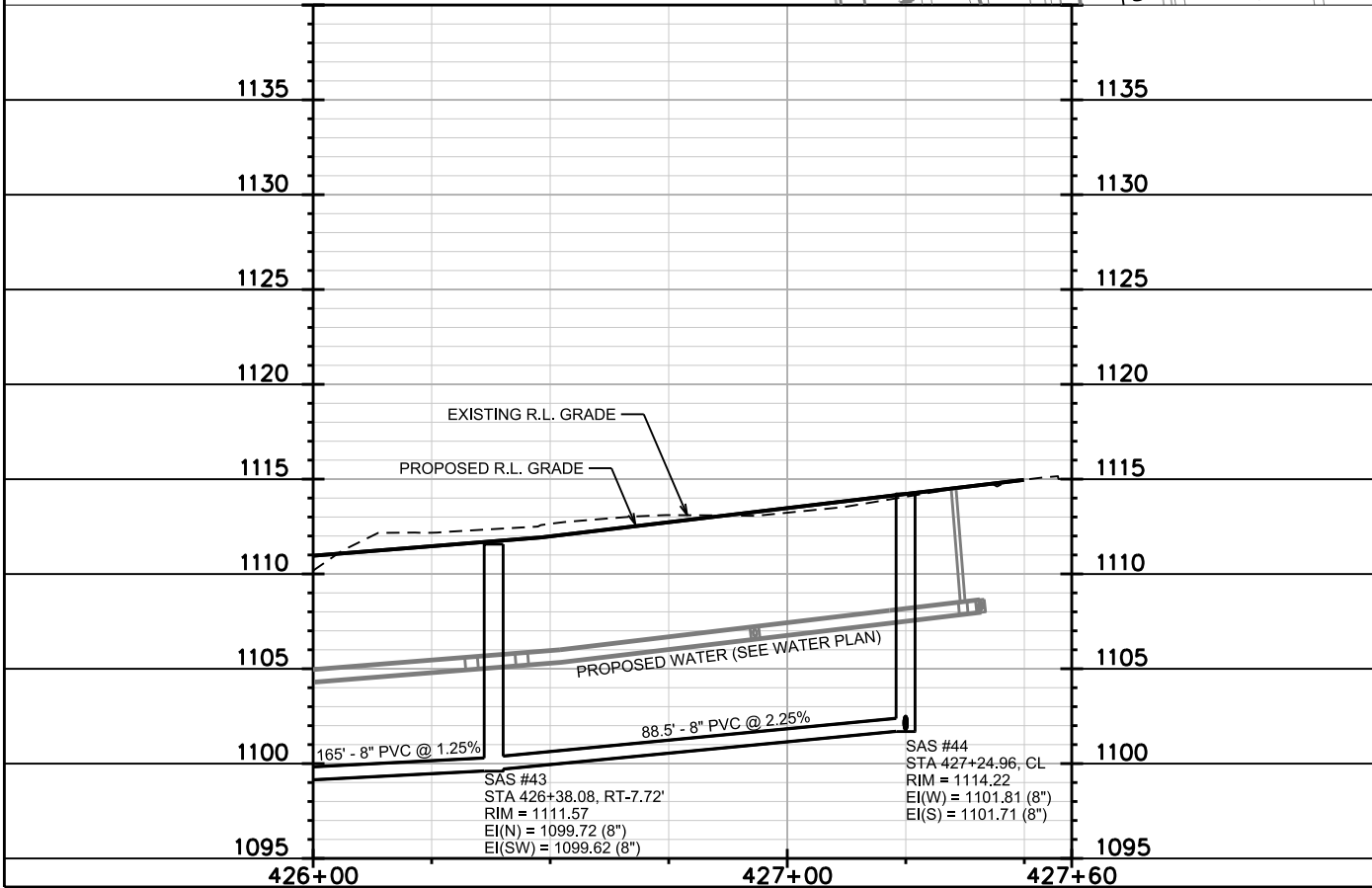
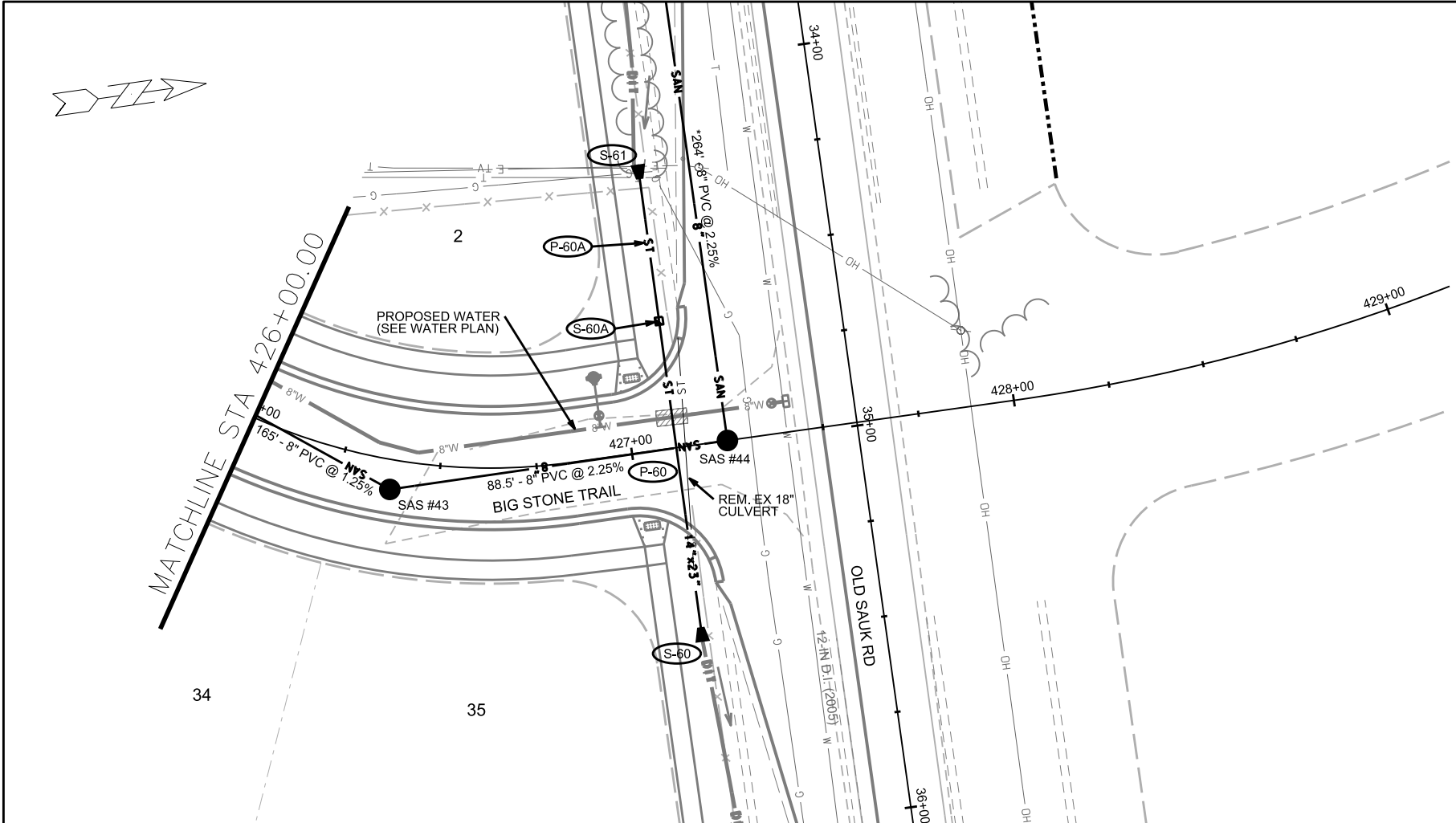


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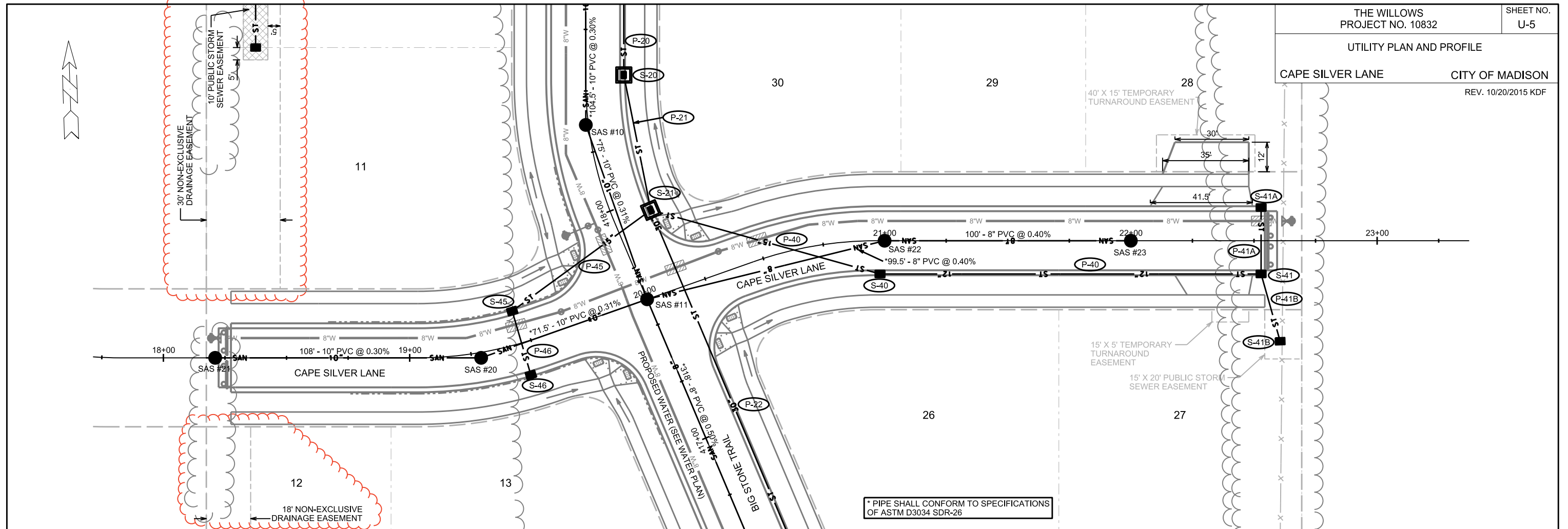
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REV. DATE:

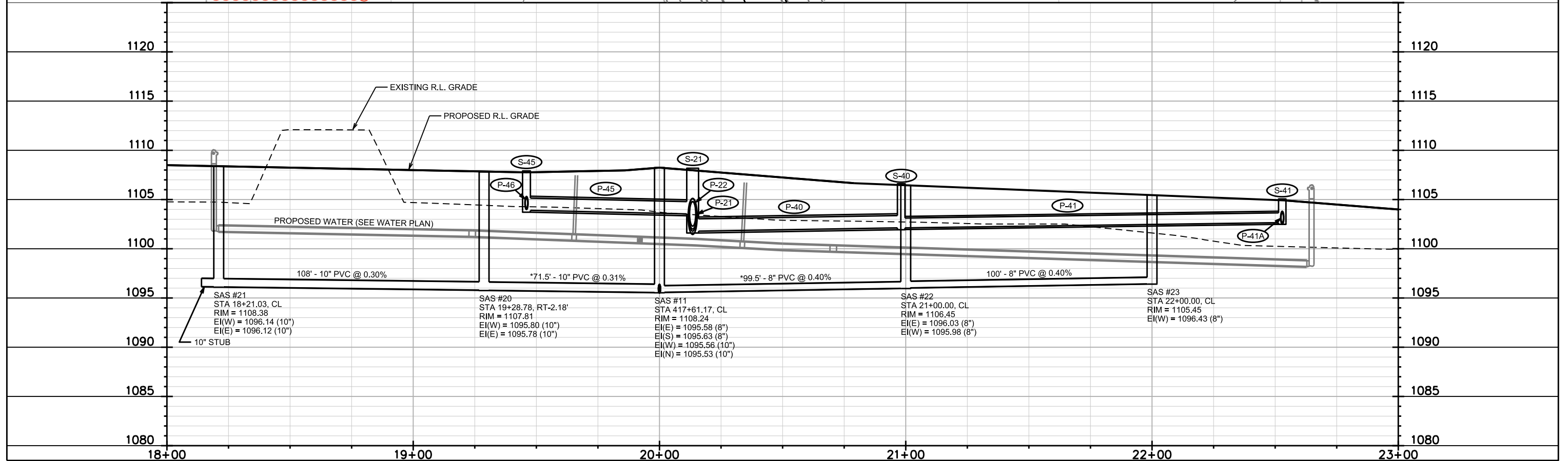
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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



* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

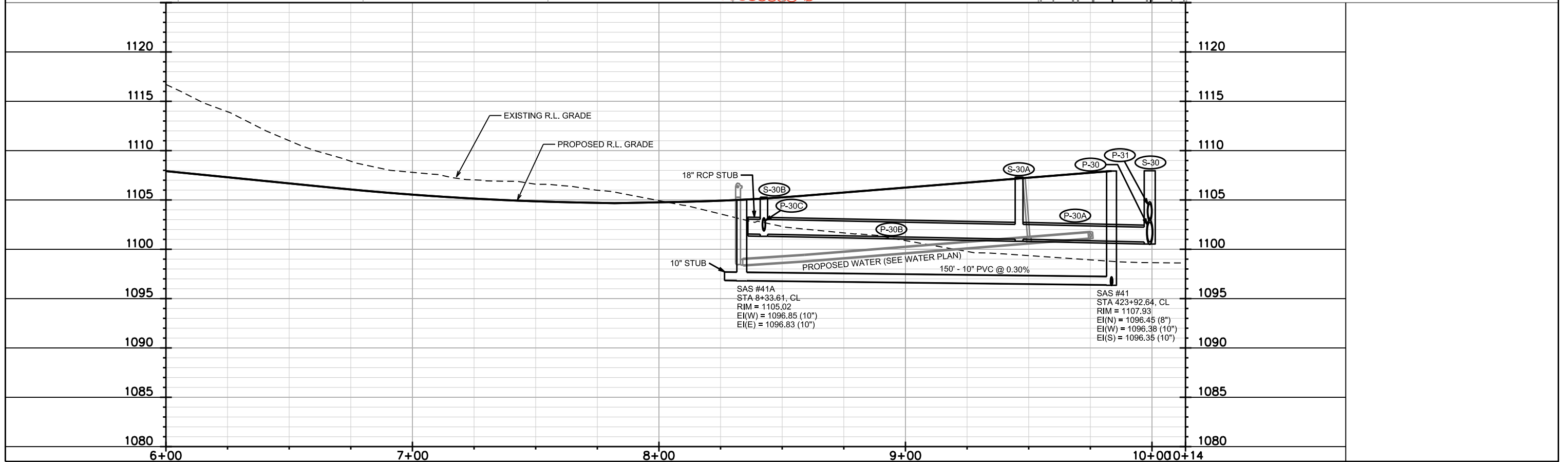
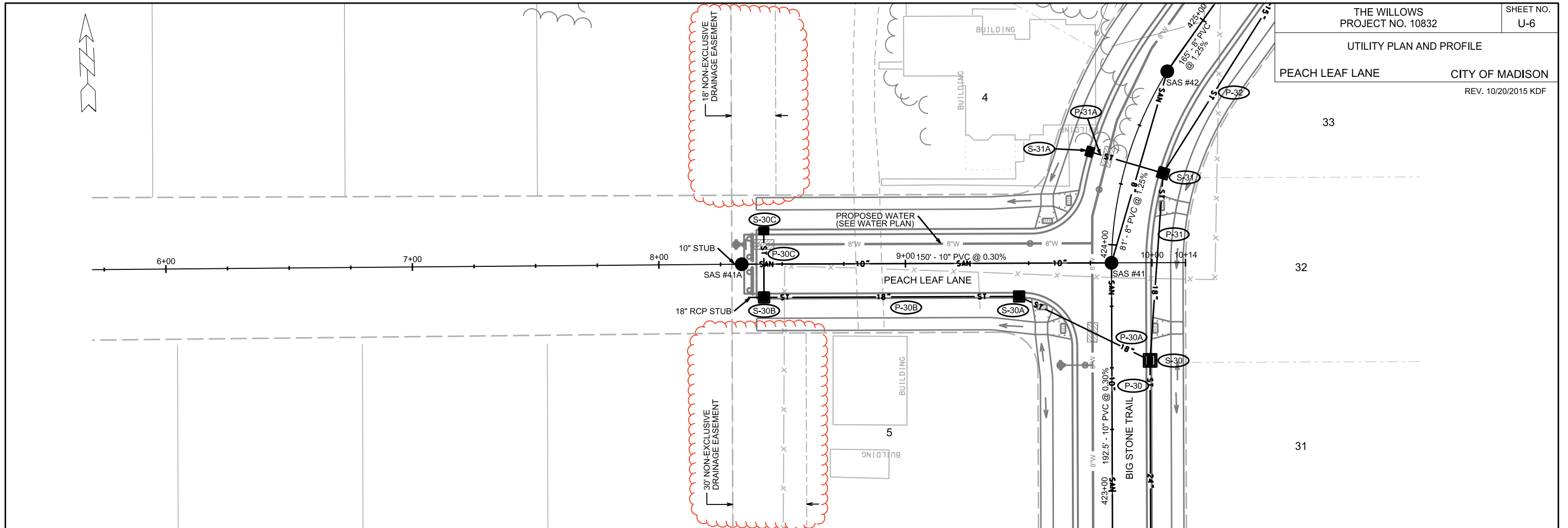


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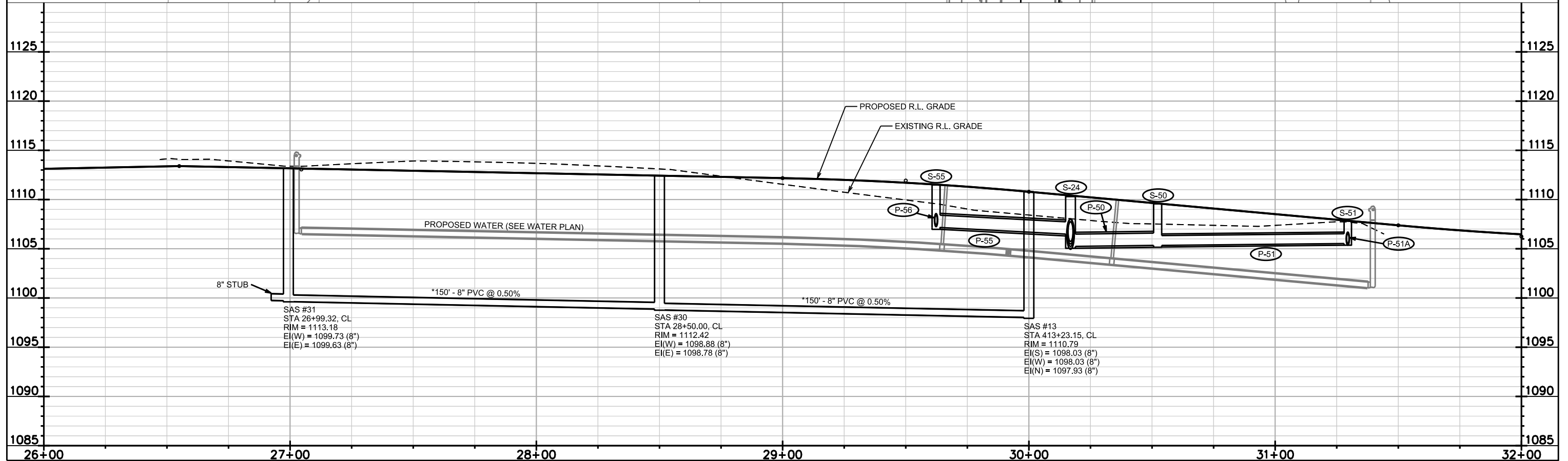
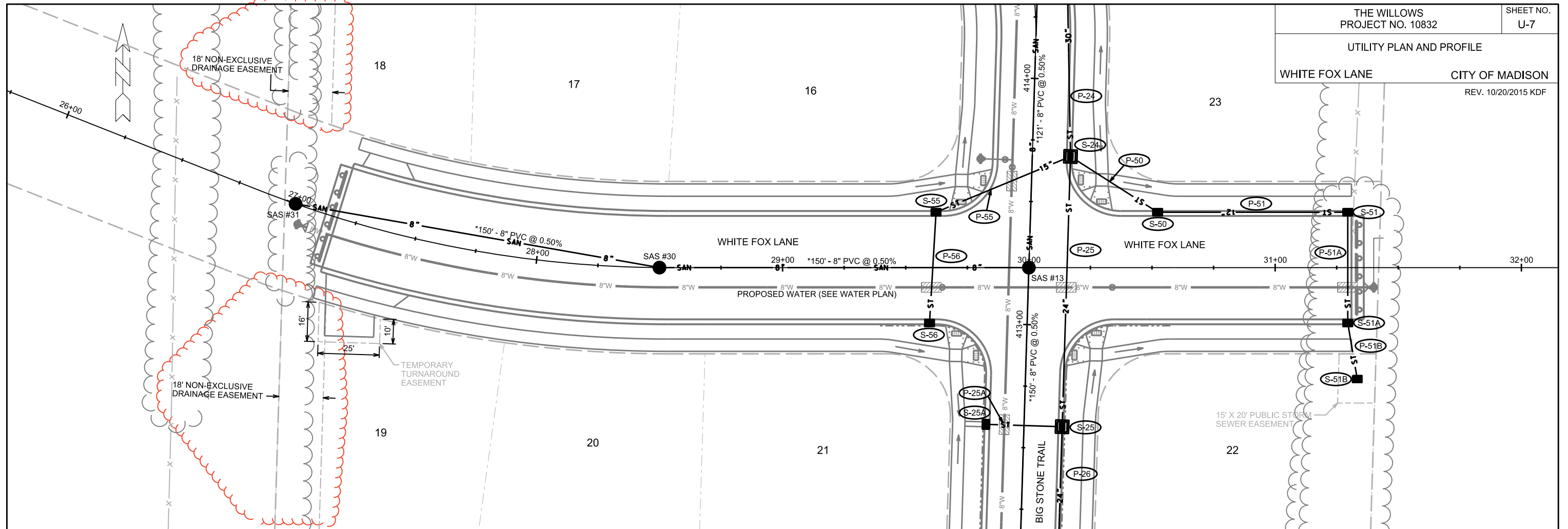


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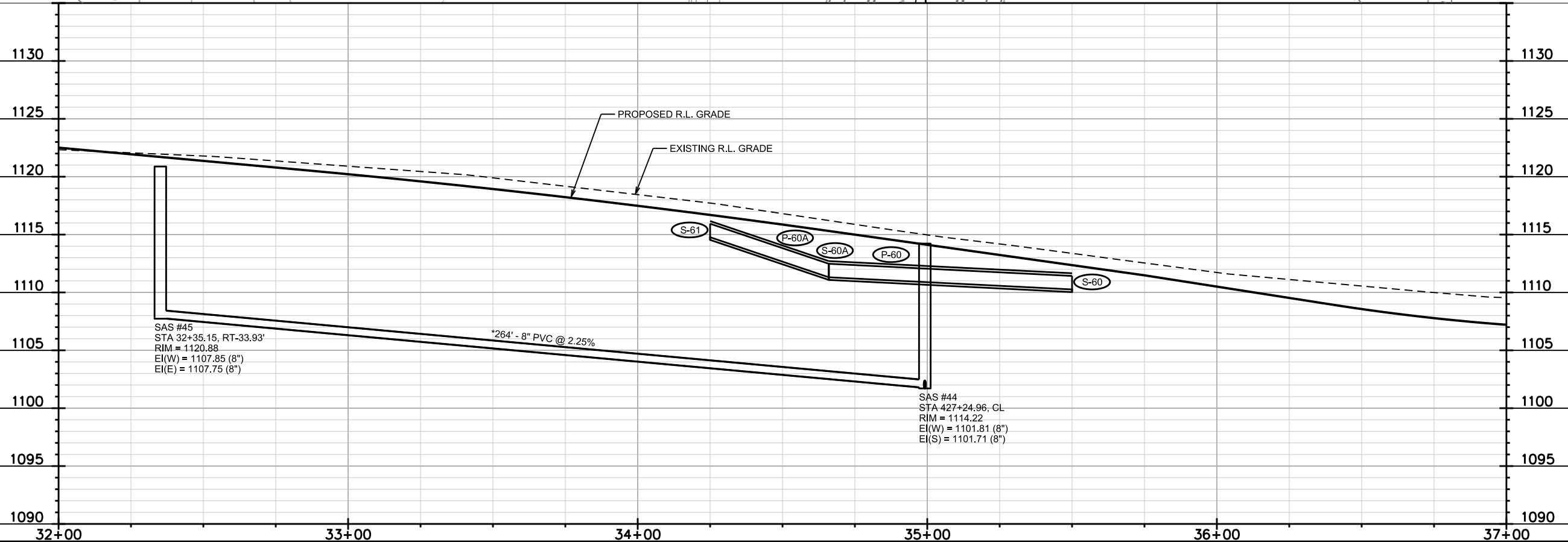
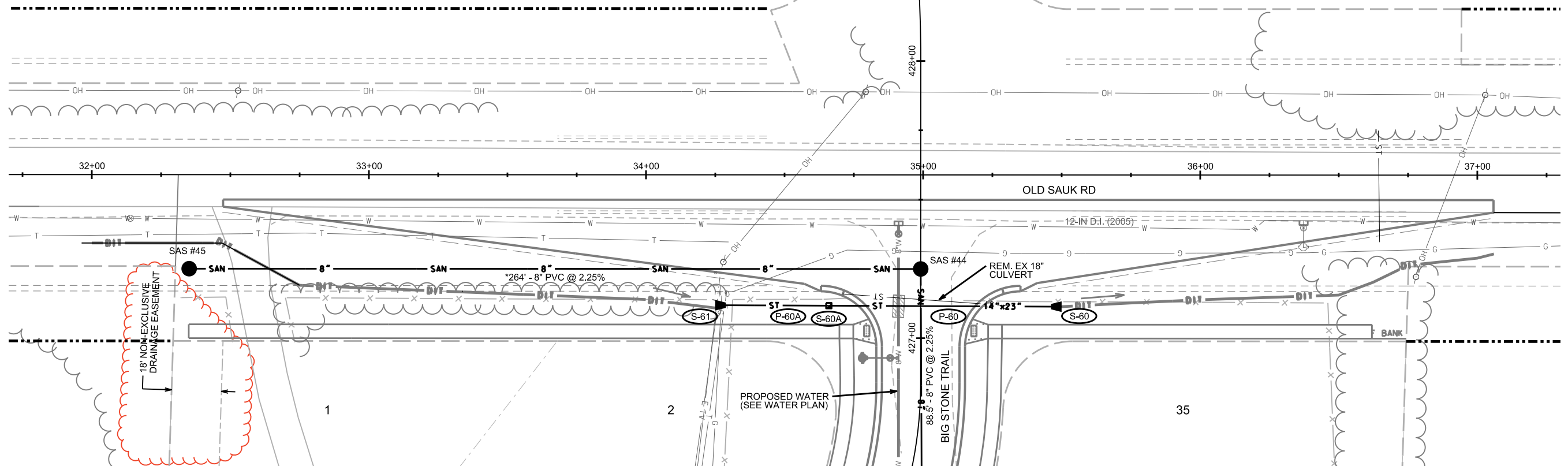
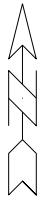


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

OUTLOT 1

CITY OF MADISON

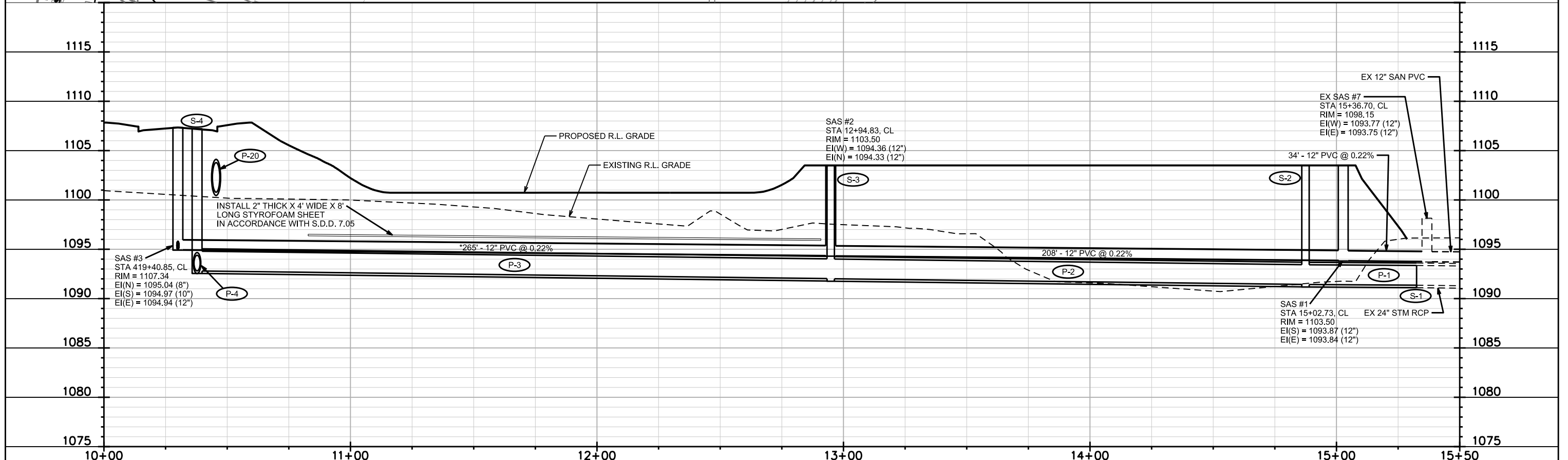
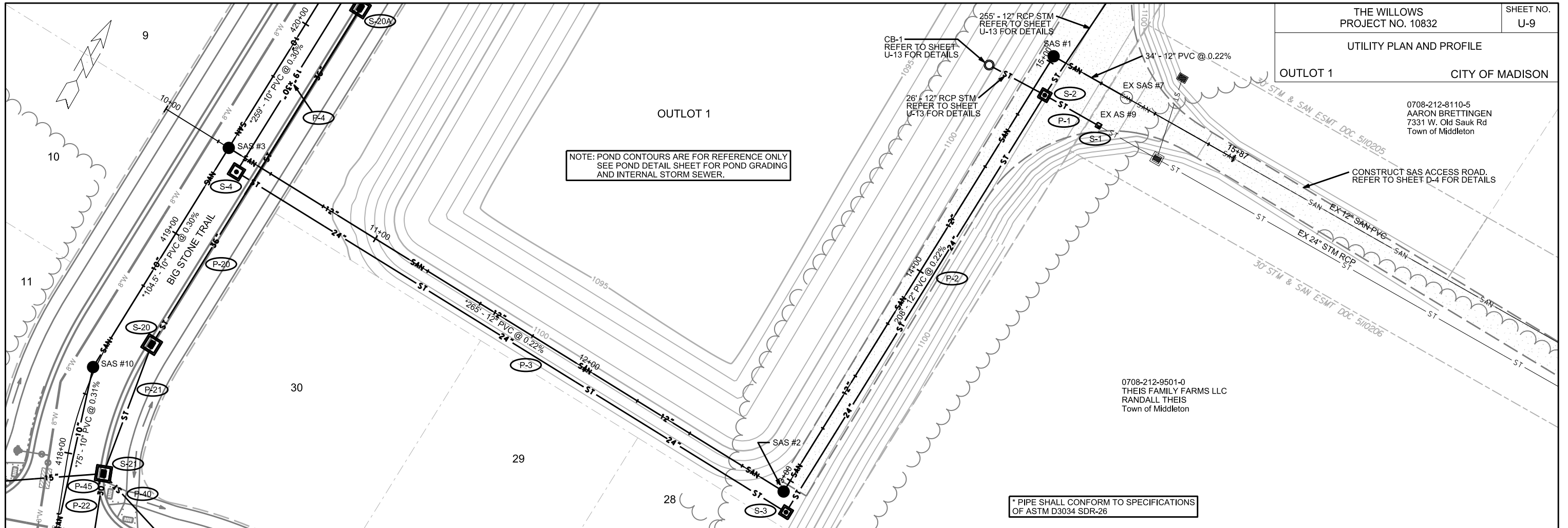
0708-212-8110-5
AARON BRETTINGEN
7331 W. Old Sauk Rd
Town of Middleton

0708-212-9501-0
THEIS FAMILY FARMS LLC
RANDALL THEIS
Town of Middleton

OUTLOT 1

NOTE: POND CONTOURS ARE FOR REFERENCE ONLY
SEE POND DETAIL SHEET FOR POND GRADING
AND INTERNAL STORM SEWER.

* PIPE SHALL CONFORM TO SPECIFICATIONS
OF ASTM D3034 SDR-26



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

THE WILLOWS
PROJECT NO. 10832

SHEET NO.
U-10

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
OUTLOT 1						
SAS #1	15+02.73	CL	1103.50	1093.84	9.66	(1)
SAS #2	12+94.83	CL	1103.50	1094.33	9.17	(1)
BIG STONE TRAIL						
SAS #3	419+40.85	CL	1107.34	1094.94	12.40	-
SAS #10	418+36.30	LT-1.07	1107.84	1095.28	12.56	-
SAS #11	417+61.17	CL	1108.24	1095.53	12.71	-
SAS #12	414+43.85	RT-3.05	1109.76	1097.22	12.54	-
SAS #13	413+23.15	CL	1110.79	1097.93	12.86	-
SAS #14	411+83.13	CL	1110.66	1098.73	11.93	-
SAS #40	422+00.00	CL	1106.96	1095.75	11.21	-
SAS #41	423+92.64	CL	1107.93	1096.35	11.58	-
SAS #42	424+74.66	CL	1108.70	1097.46	11.24	-
SAS #43	426+38.08	RT-7.72	1111.57	1099.62	11.95	-
SAS #44	427+24.96	CL	1114.22	1101.71	12.51	-
CAPE SILVER LANE						
SAS #20	19+28.78	RT-2.18	1107.81	1095.78	12.03	-
SAS #21	18+21.03	CL	1108.38	1096.12	12.26	-
SAS #22	21+00.00	CL	1106.45	1095.98	10.47	-
SAS #23	22+00.00	CL	1105.45	1096.43	9.02	-
WHITE FOX LANE						
SAS #30	28+50.00	CL	1112.42	1098.78	13.64	-
SAS #31	26+99.32	CL	1113.18	1099.63	13.55	-
PEACH LEAF LANE						
SAS #41A	8+33.61	CL	1105.02	1096.83	8.19	-
OLD SAUK RD						
SAS #45	32+35.15	RT-33.93	1120.88	1107.75	13.13	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
OUTLOT 1								
EX SAS 7	SAS #1	1093.77	1093.84	34	0.22%	12"	SDR-35	-
SAS #1	SAS #2	1093.87	1094.33	208	0.22%	12"	SDR-35	-
SAS #2	SAS #3	1094.36	1094.94	265	0.22%	12"	SDR-26	-
BIG STONE TRAIL								
SAS #3	SAS #10	1094.97	1095.28	104.5	0.30%	10"	SDR-26	-
SAS #10	SAS #11	1095.30	1095.53	75	0.31%	10"	SDR-26	-
SAS #11	SAS #12	1095.63	1097.22	318	0.50%	8"	SDR-26	-
SAS #12	SAS #13	1097.32	1097.93	121	0.50%	8"	SDR-26	-
SAS #13	SAS #14	1098.03	1098.73	140	0.50%	8"	SDR-26	-
SAS #3	SAS #40	1094.97	1095.75	259	0.30%	10"	SDR-26	-
SAS #40	SAS #41	1095.77	1096.35	192.5	0.30%	10"	SDR-35	-
SAS #41	SAS #42	1096.45	1097.46	81	1.25%	8"	SDR-35	-
SAS #42	SAS #43	1097.56	1099.62	165	1.25%	8"	SDR-35	-
SAS #43	SAS #44	1099.72	1101.71	88.5	2.25%	8"	SDR-35	-
CAPE SILVER LANE								
SAS #11	SAS #20	1095.56	1095.78	71.5	0.31%	10"	SDR-26	-
SAS #20	SAS #21	1095.80	1096.12	108	0.30%	10"	SDR-35	-
SAS #11	SAS #22	1095.58	1095.98	99.5	0.40%	8"	SDR-26	-
SAS #22	SAS #23	1096.03	1096.43	100	0.40%	8"	SDR-35	-
WHITE FOX LANE								
SAS #13	SAS #30	1098.03	1098.78	150	0.50%	8"	SDR-26	-
SAS #30	SAS #31	1098.88	1099.63	150	0.50%	8"	SDR-26	-
PEACH LEAF LANE								
SAS #41	SAS #41A	1096.38	1096.83	150	0.30%	10"	SDR-35	-
OLD SAUK RD								
SAS #44	SAS #45	1101.81	1107.75	264	2.25%	8"	SDR-26	-

SPECIFIC NOTES

(1) INSTALL SAS CASTING AND FRAME R-1916C-0054, LOCKING LID WITH LOGO COVER HEX BOLTED TO SAS CHIMNEY (NO ADJUSTMENT RINGS)

STORM SEWER SCHEDULE

*REV. 10/20/2015 KDF

THE WILLOWS
PROJECT NO. 10832

SHEET NO.
U-11

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
OUTLOT 1							
S-1	15+32.50	RT-15.50	COLLAR	-	1091.36	-	-
S-2	14+87.42	RT-5.25	3X3 SAS	1103.50	1091.43	12.07	W/R-1050-0054
S-3	12+94.83	RT-8.46	3X3 SAS	1103.50	1092.02	11.48	W/R-1050-0054
BIG STONE TRAIL							
S-4	419+34.20	RT-7.78	4X4 SAS	1107.21	1092.81	14.40	W/R-1050-0054
S-5	420+29.64	RT-7.78	4X4 SAS	1106.74	1093.09	13.65	W/R-1050-0054
S-6	420+29.65	LT-151.22	H INLET	1099.30	1093.57	5.73	(4),W/R-1878-B7G
S-10	421+09.00	RT-71.52	42" RCP AE	-	1098.50	-	(1), W/GATE
S-11	421+09.00	RT-15.48	5X5 SAS	1106.60	1099.04	7.56	(3), LP, UD, W/R-3067-7004-VB
S-12	421+09.00	LT-15.50	H INLET	1106.60	1102.85	3.75	(3), LP, UD, W/R-3067-7004-VB
S-20A	420+17.29	RT-15.50	5X5 SAS	1107.06	1100.21	6.85	W/R-3067-7004-V
S-20	418+67.64	RT-15.50	5X5 SAS	1107.86	1101.40	6.46	W/R-3067-7004-V
S-21	417+93.94	RT-15.50	5X5 SAS	1108.18	1101.79	6.39	W/R-3067-7004-V
S-22	415+78.94	RT-15.50	4X4 SAS	1109.25	1103.87	5.38	W/R-3067-7004-V
S-22A	415+64.98	LT-15.50	H INLET	1109.32	1105.57	3.75	W/R-3067-7004-V
S-23	414+46.60	RT-15.50	4X4 SAS	1109.91	1104.85	5.06	W/R-3067-7004-V
S-24	413+68.78	RT-15.50	4X4 SAS	1110.30	1105.24	5.06	W/R-3067-7004-V
S-25	412+59.00	RT-15.50	4X4 SAS	1110.21	1106.53	3.68	(3), LP, UD, W/R-3067-7004-VB
S-25A	412+59.00	LT-15.50	H INLET	1110.21	1107.74	2.47	(3), LP, UD, W/R-3067-7004-VB
S-26	411+84.00	RT-15.50	COLLAR	-	1107.08	-	-
S-30	423+53.00	RT-15.50	4X4 SAS	1107.83	1100.87	6.96	W/R-3067-7004-V
S-31	424+34.00	RT-15.50	3X3 SAS	1108.34	1103.84	4.50	W/R-3067-7004-V
S-31A	424+33.99	LT-15.50	H INLET	1108.34	1104.54	3.80	W/R-3067-7004-V
S-32	425+65.90	RT-15.50	H INLET	1110.38	1106.37	4.01	W/R-3067-7004-V
S-32A	425+65.90	LT-15.50	H INLET	1110.38	1106.78	3.60	W/R-3067-7004-V
S-70	420+17.28	LT-15.50	H INLET	1107.06	1100.35	6.71	W/R-3067-7004-V
OUTLOT 2 EASEMENTS							
* S-71	4+66.65	CL	H INLET	1104.00	1100.93	3.07	W/R-1878-B7G
* S-72	3+15.00	CL	H INLET	1104.00	1101.93	2.07	W/R-1878-B7G
* S-73	6+39.00	CL	H INLET	1104.00	1102.03	1.97	W/R-1878-B7G

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
OUTLOT 1										
P-1	S-1	S-2	1091.36	1091.43	25	23.6	0.30%	24"	RCP	-
P-2	S-2	S-3	1091.43	1092.02	199.5	196.2	0.30%	24"	RCP	-
P-3	S-3	S-4	1092.02	1092.81	262.5	258.8	0.31%	24"	RCP	-
BIG STONE TRAIL										
P-4	S-4	S-5	1092.81	1093.09	95.5	91.4	0.31%	19"X30"	HERCP	-
P-5	S-5	S-6	1093.09	1093.57	159	156	0.31%	19"X30"	HERCP	-
P-10	S-10	S-11	1098.58	1099.04	48	45.5	1.01%	42"	RCP	(2)
P-11	S-11	S-12	1102.30	1102.85	31	27.5	2.00%	12"	RCP	-
P-20A	S-11	S-20A	1099.54	1100.21	92	86.7	0.77%	36"	RCP	-
P-20	S-20A	S-20	1100.21	1101.40	161	155.8	0.76%	36"	RCP	-
P-21	S-20	S-21	1101.40	1101.79	56	50.8	0.77%	36"	RCP	-
P-22	S-21	S-22	1102.29	1103.87	215	210.5	0.75%	30"	RCP	-
P-22A	S-22	S-22A	1105.37	1105.57	34	30.7	0.65%	12"	RCP	-
P-23	S-22	S-23	1103.87	1104.85	135	131	0.75%	30"	RCP	-
P-24	S-23	S-24	1104.85	1105.24	81	77	0.51%	30"	RCP	-
P-25	S-24	S-25	1105.74	1106.53	110	105.8	0.75%	24"	RCP	-
P-25A	S-25	S-25A	1107.53	1107.74	31	28	0.75%	12"	RCP	-
P-26	S-25	S-26	1106.53	1107.08	75	73	0.75%	24"	RCP	-
P-30	S-11	S-30	1099.54	1100.74	244	239.5	0.50%	24"	RCP	-
P-30A	S-30	S-30A	1100.74	1101.02	59	55.2	0.51%	18"	RCP	-
P-31	S-30	S-31	1103.11	1103.84	76.5	72.6	1.01%	18"	RCP	-
P-31A	S-31	S-31A	1104.34	1104.54	31	28.5	0.70%	12"	RCP	-
P-32	S-31	S-32	1104.09	1106.37	126	122.9	1.86%	15"	RCP	-
P-32A	S-32	S-32A	1106.62	1106.78	31	29	0.55%	12"	RCP	-
P-70	S-20A	S-70	1100.21	1100.35	31	27.5	0.51%	15"	RCP	-
P-71	S-70	S-71	1100.35	1100.93	118.5	116.5	0.50%	15"	STORM	-
OUTLOT 2 EASEMENTS										
* P-72	S-71	S-72	1101.18	1101.93	151.5	149.1	0.50%	12"	STORM	-
* P-73	S-71	S-73	1101.18	1102.03	172.5	169.9	0.50%	12"	STORM	-

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 KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

SPECIFIC NOTES

- (1) STATION, OFFSET, AND E.I. GIVEN AT RCP AE END
- (2) PLAN AND PIPE LENGTHS DO NOT INCLUDE LENGTH OF RCP AE. PIPE E.I. IS GIVEN AT AE CONNECTION, FOR AE E.I. SEE STRUCTURE CHART
- (3) TAP 2" PVC PIPE INTO THE FRONT OF THE INLET AND ELBOW PIPE UP TO THE TOP OF BINDER LAYER. PIPE SHALL SURFACE IN FRONT OF CURB.
- (4) BOLT STEEL PLATE WITH 12" ORIFICE TO STRUCTURE WALL, OVER OUTGOING PIPE.

STORM SEWER SCHEDULE

THE WILLOWS
PROJECT NO. 10832

SHEET NO.
U-12

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
PEACH LEAF LANE							
S-30A	9+46.09	RT-13.50	3X3 SAS	1107.31	1101.02	6.29	W/R-3067-7004-V
S-30B	8+42.59	RT-13.50	3X3 SAS	1105.28	1101.52	3.76	W/R-3067-7004-V
S-30C	8+42.59	LT-13.50	H INLET	1105.28	1102.27	3.01	W/R-3067-7004-V
CAPE SILVER LANE							
S-40	20+98.15	RT-13.50	H INLET	1106.61	1102.12	4.49	W/R-3067-7004-V
S-41	22+52.89	RT-13.50	H INLET	1105.06	1102.65	2.41	W/R-3067-7004-V
S-41A	22+52.89	LT-13.50	H INLET	1105.06	1102.78	2.28	W/R-3067-7004-V
S-41B	22+60.61	RT-40.80	H INLET	1104.04	1102.79	1.25	FP, W/R-1878-B7G
S-45	19+46.00	LT-13.50	H INLET	1107.90	1103.90	4.00	(3), LP, UD, W/R-3067-7004-VB
S-46	19+46.00	RT-13.50	H INLET	1107.90	1104.28	3.62	(3), LP, UD, W/R-3067-7004-VB
WHITE FOX LANE							
S-50	30+52.28	LT-22.50	H INLET	1109.56	1105.34	4.22	W/R-3067-7004-V
S-51	31+29.49	LT-22.50	H INLET	1107.81	1105.53	2.28	W/R-3067-7004-V
S-51A	31+29.49	RT-22.50	H INLET	1107.81	1105.64	2.17	W/R-3067-7004-V
S-51B	31+33.35	RT-45.23	H INLET	1107.00	1105.75	1.25	FP, W/R-1878-B7G
S-55	29+62.31	LT-22.50	H INLET	1111.48	1107.16	4.32	W/R-3067-7004-V
S-56	29+59.66	RT-22.50	H INLET	1111.52	1107.67	3.85	W/R-3067-7004-V
OLD SAUK RD							
S-60	35+00.00	RT-47.51	14"X23" HERCP AE -	1110.26	-	-	(1), W/GATE
S-60A	34+66.00	RT-47.19	COLLAR	1111.31	-	-	-
S-61	34+25.00	RT-47.03	14"X23" HERCP AE -	1114.77	-	-	(1), W/GATE

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
PEACH LEAF LANE										
P-30B	S-30A	S-30B	1101.02	1101.52	103.5	100.5	0.50%	18"	RCP	-
P-30C	S-30B	S-30C	1102.02	1102.27	27	24.5	1.02%	12"	RCP	-
CAPE SILVER LANE										
P-40	S-21	S-40	1101.79	1102.12	96.5	91.9	0.36%	15"	RCP	-
P-41	S-40	S-41	1102.12	1102.65	155	151.7	0.35%	12"	RCP	-
P-41A	S-41	S-41A	1102.65	1102.78	27	25	0.52%	12"	RCP	-
P-41B	S-41	S-41B	1102.65	1102.79	28.5	26.3	0.53%	8"	STORM	-
P-45	S-21	S-45	1103.54	1103.90	69.5	65.5	0.55%	15"	RCP	-
P-46	S-45	S-46	1104.15	1104.28	27	25	0.52%	12"	RCP	-
WHITE FOX LANE										
P-50	S-24	S-50	1105.24	1105.34	42	37.9	0.26%	15"	RCP	-
P-51	S-50	S-51	1105.34	1105.53	77.5	74.2	0.26%	12"	RCP	-
P-51A	S-51	S-51A	1105.53	1105.64	45	43	0.26%	12"	RCP	-
P-51B	S-51A	S-51B	1105.64	1105.75	23	21	0.52%	8"	STORM	-
P-55	S-24	S-55	1106.49	1107.16	59	55.3	1.21%	15"	RCP	-
P-56	S-55	S-56	1107.41	1107.67	45	43.1	0.60%	12"	RCP	-
OLD SAUK RD										
P-60	S-60	S-60A	1110.33	1111.31	84	78	1.26%	14"X23"	HERCP	(2)
P-60A	S-60A	S-61	1111.31	1114.26	41	35	8.43%	14"X23"	HERCP	(2)

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.

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SPECIFIC NOTES

(1) STATION, OFFSET, AND E.I. GIVEN AT RCP AE END

(2) PLAN AND PIPE LENGTHS DO NOT INCLUDE LENGTH OF RCP AE. PIPE E.I. IS GIVEN AT AE CONNECTION, FOR AE E.I. SEE STRUCTURE CHART

(3) TAP 2" PVC PIPE INTO THE FRONT OF THE INLET AND ELBOW PIPE UP TO THE TOP OF BINDER LAYER. PIPE SHALL SURFACE IN FRONT OF CURB.

BIORETENTION GENERAL NOTES:

GEOTEXTILE FABRIC:

- WISDOT TYPE DF, SCHEDULE B OR C

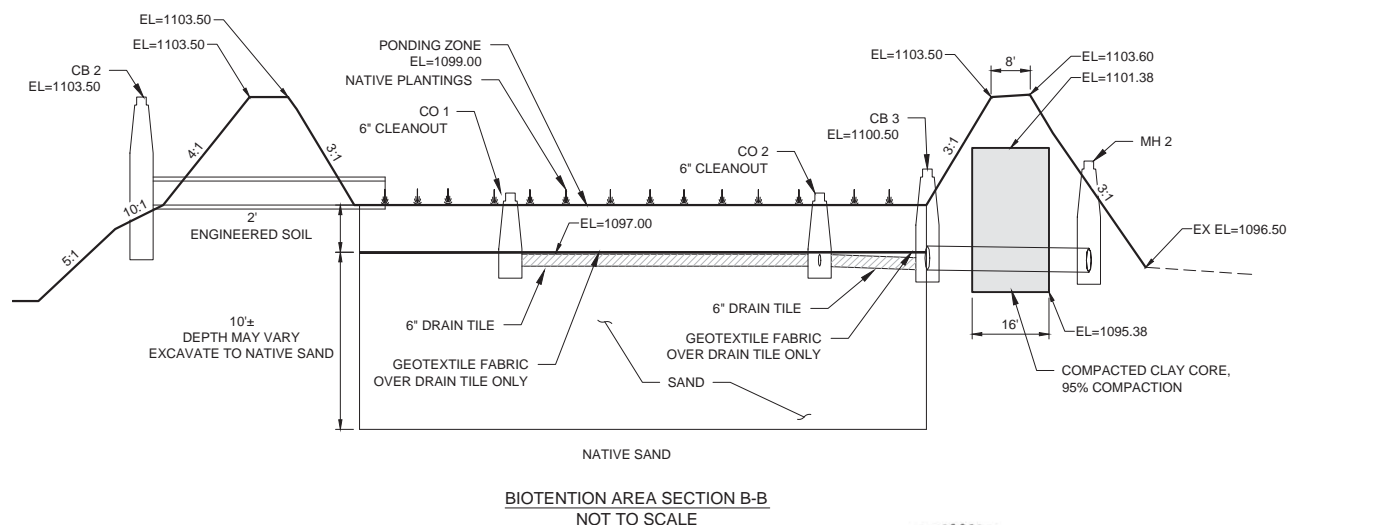
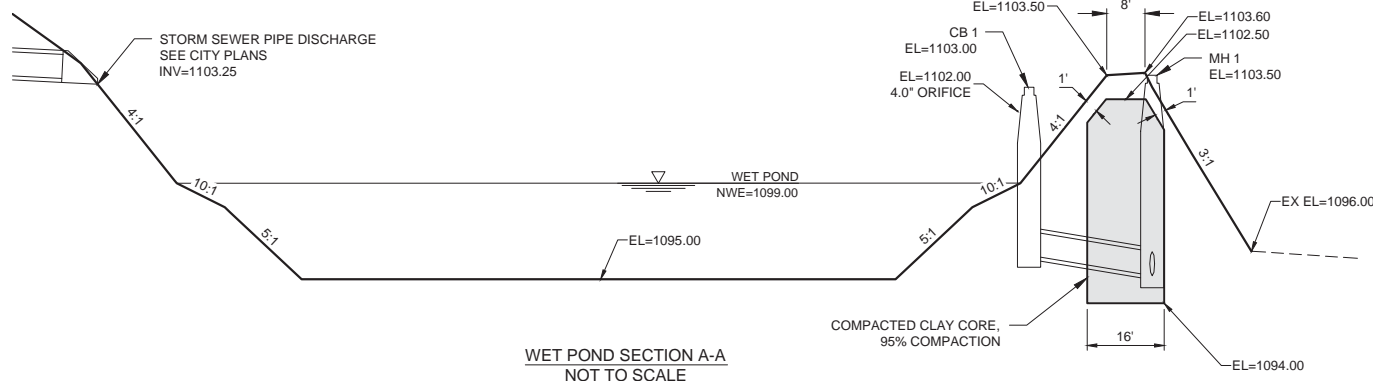
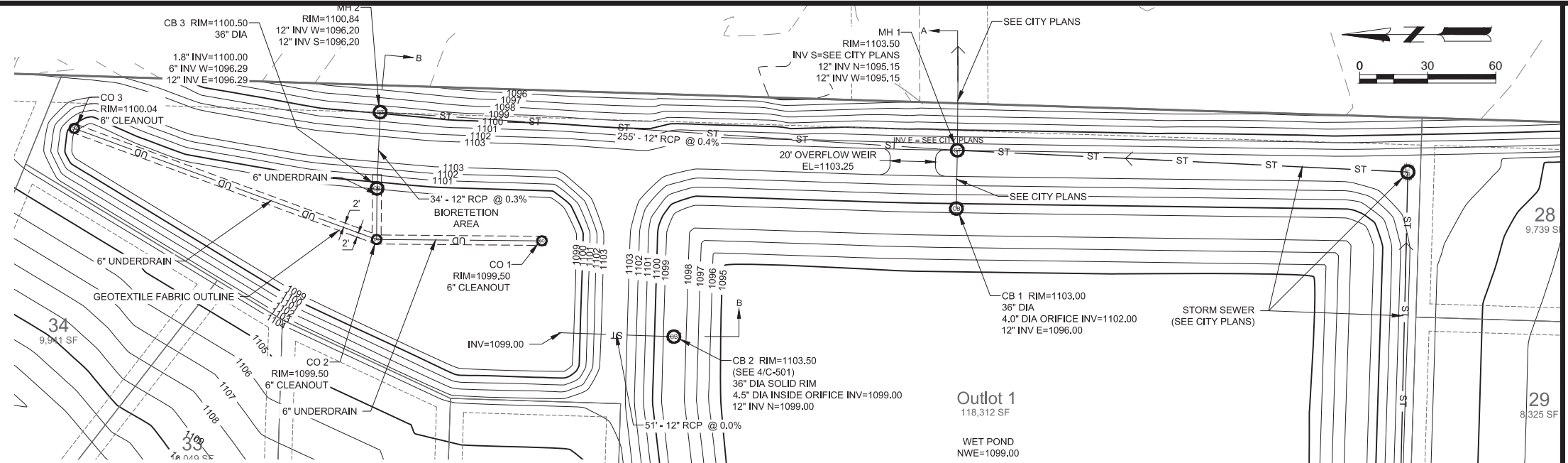
ENGINEERED SOIL:

- 70-85% SAND: CLEAN GRANULAR MATERIAL MEETING ASTM C33 OR USDA COARSE SAND (0.02-0.04 INCHES). 97% SiO₂ WASHED TO REMOVE FINES. MANUFACTURED SAND, CALCIUM CARBONATED SAND, SOLOMITIC SAND AND STONE DUST ARE PROHIBITED.
- 15-30% COMPOST: CERTIFIED MEETING THE STANDARDS OF UNITED COMPOSTING COUNCIL AND S100 PER WDNR TECHNICAL STANDARDS.

BIORETENTIONS SHALL BE INSTALLED TO THE DIMENSIONS AND SLOPES SHOWN ON THE PLANS. FINAL AS-BUILT MUST BE SURVEYED AND SUBMITTED TO THE CITY FOR FINAL APPROVAL. DEVIATIONS FROM THIS PLAN WILL NOT BE ACCEPTED WITHOUT APPROVAL BY THE ENGINEER AND CITY.

NO CONSTRUCTION TRAFFIC IN BIORETENTIONS. CARE SHOULD BE TAKEN TO NOT COMPACT INSITU-SOIL IN ALL BIORETENTION BASINS.

NATIVE PLANTS PER LANDSCAPE PLAN.



Mead & Hunt
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com

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T. R. MCKENZIE, INC
THE WILLOWS
 1910 HAWKS RIDGE DRIVE
 VERONA, WISCONSIN 53593

ISSUED	REVISION
03/18/15	CITY REVIEW
05/06/15	PERMIT REVIEW
05/26/15	REVISION
06/24/15	PERMIT REVIEW
07/08/15	PERMIT REVIEW
08/07/15	NOTE CHANGES
10/14/15	NOTE CHANGES

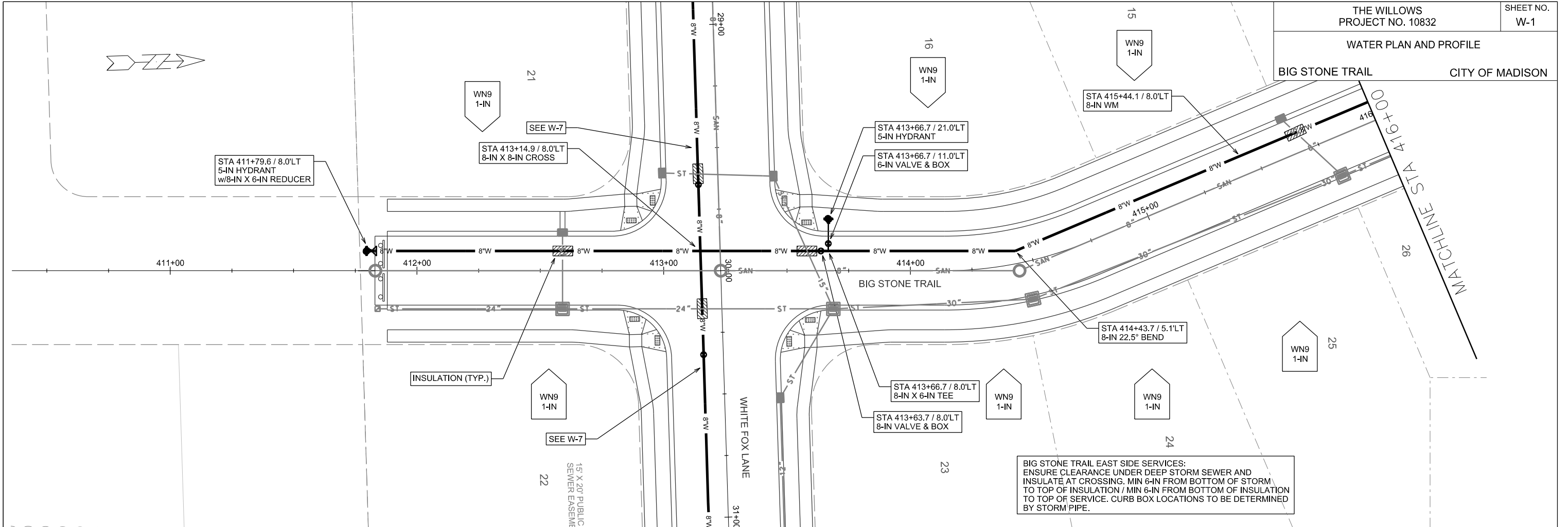
MH NO.: 2015900-141468.01
 DATE: June 24, 2015
 DESIGNED BY: ACA
 DRAWN BY: CAJ
 CHECKED BY: ACA
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 STORMWATER
 MANAGEMENT PLAN

SHEET NO.

C-103

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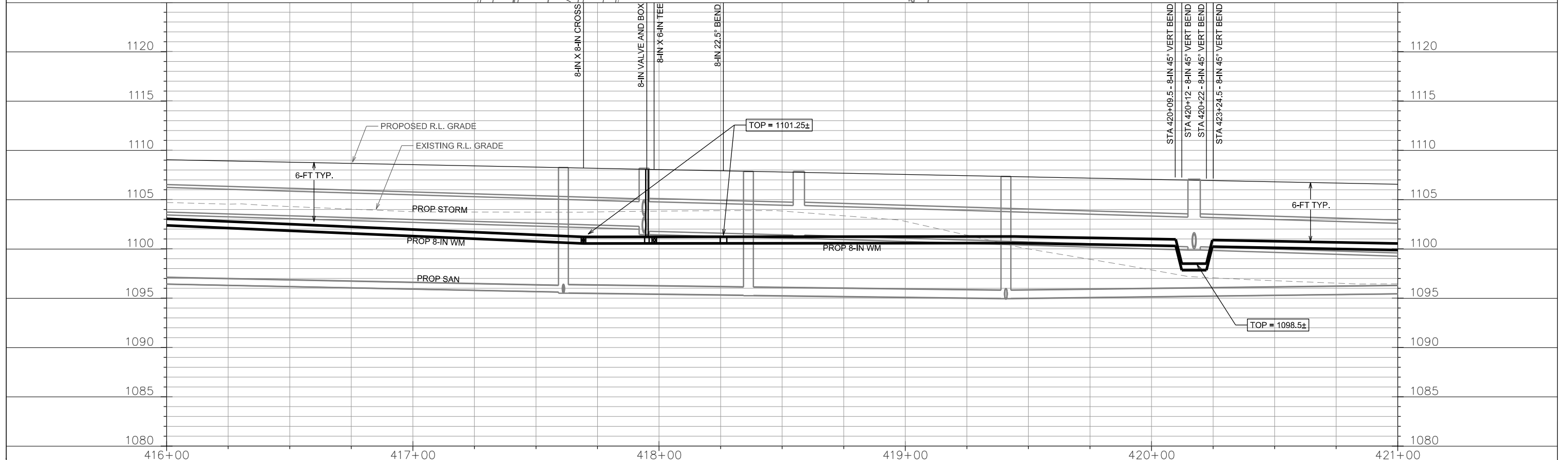
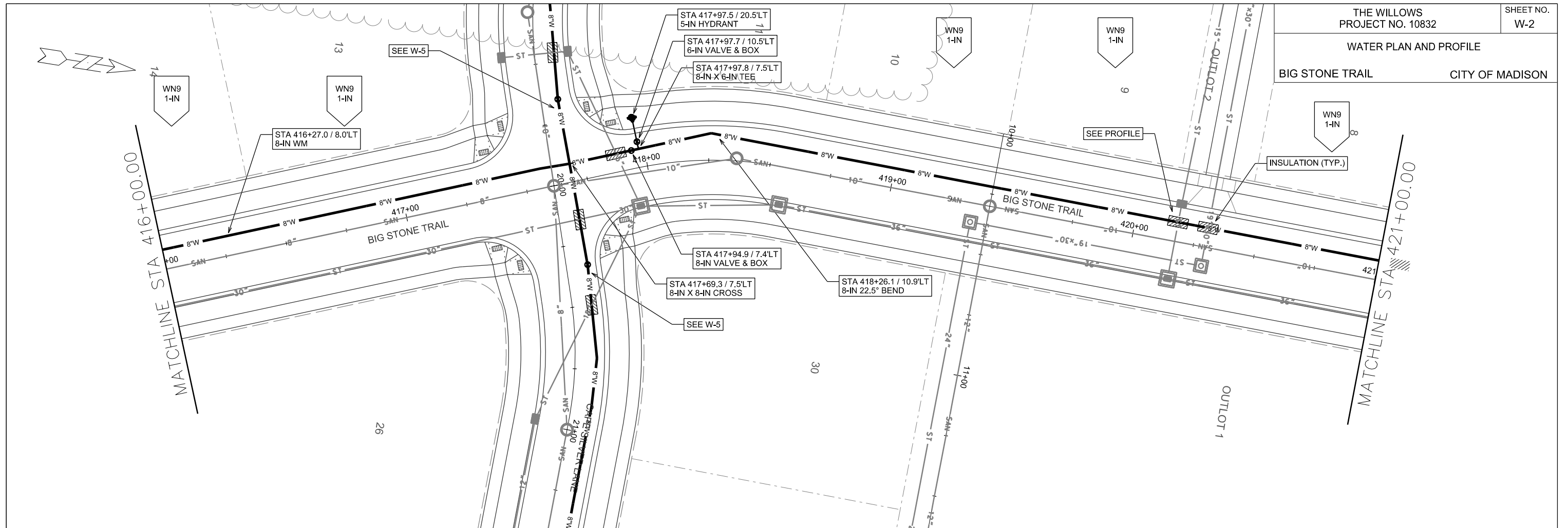


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PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



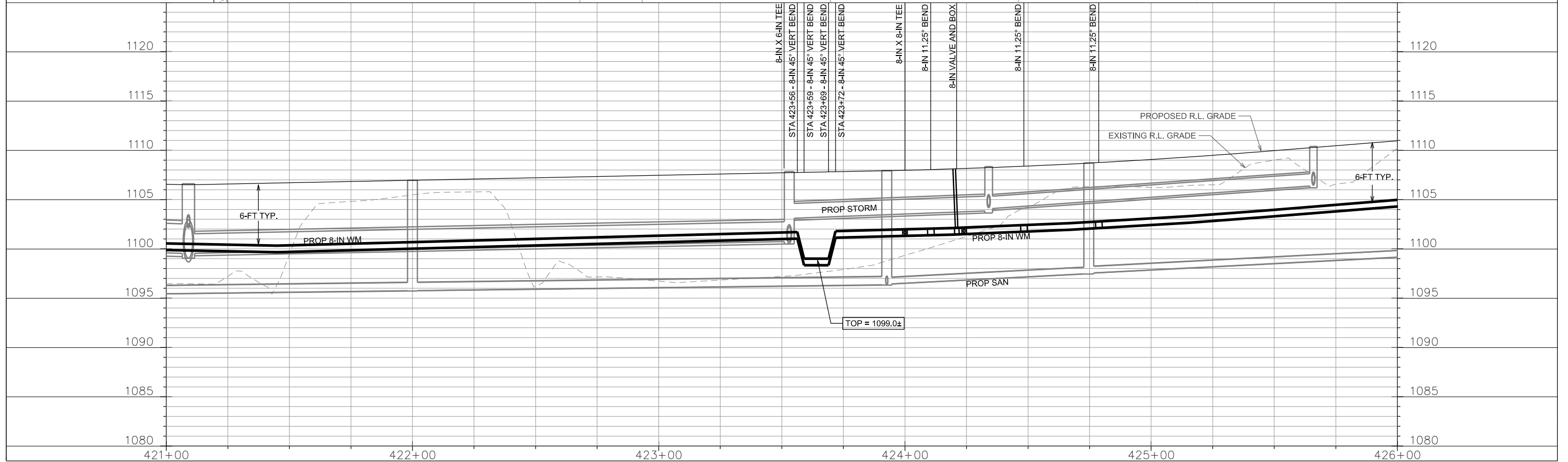
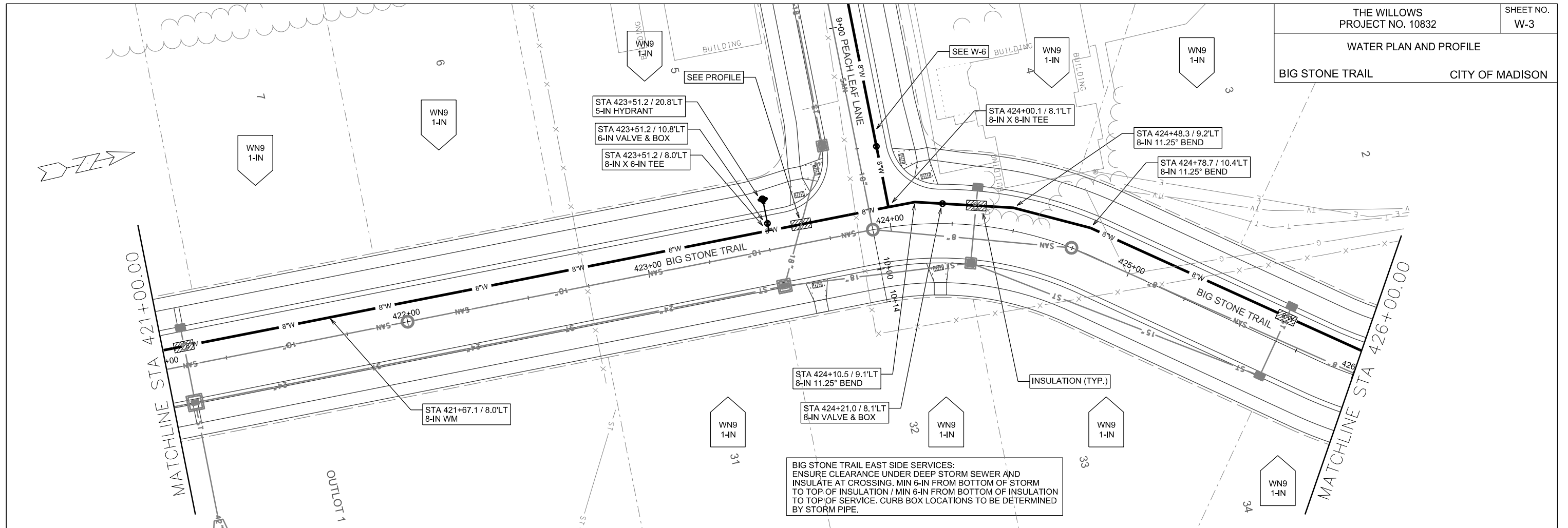
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
BIG STONE TRAIL CITY OF MADISON

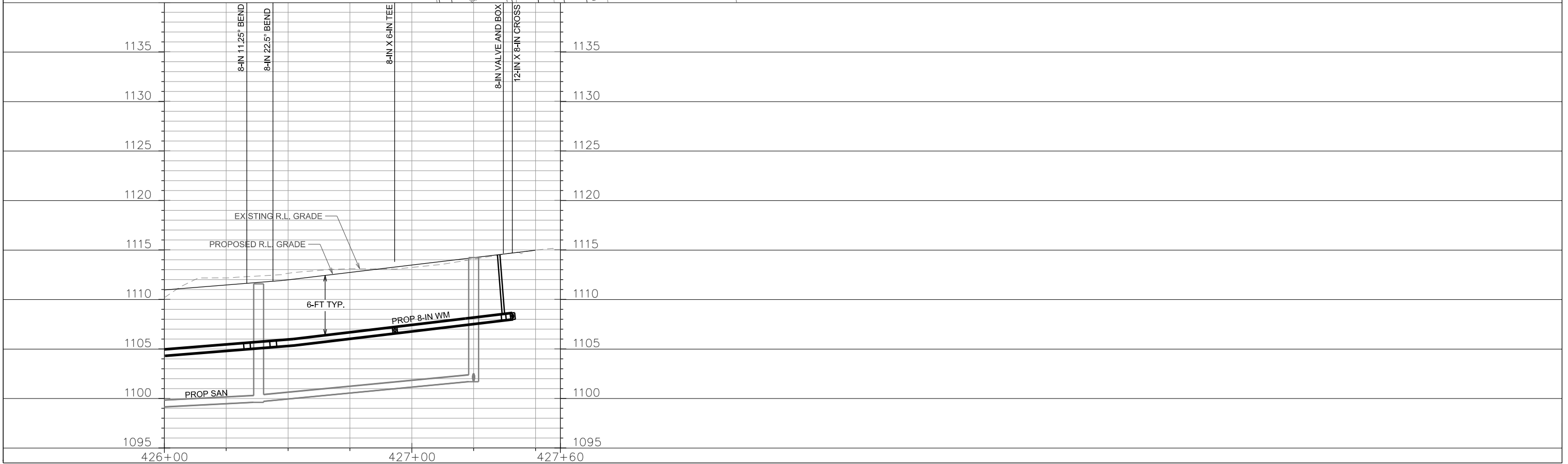
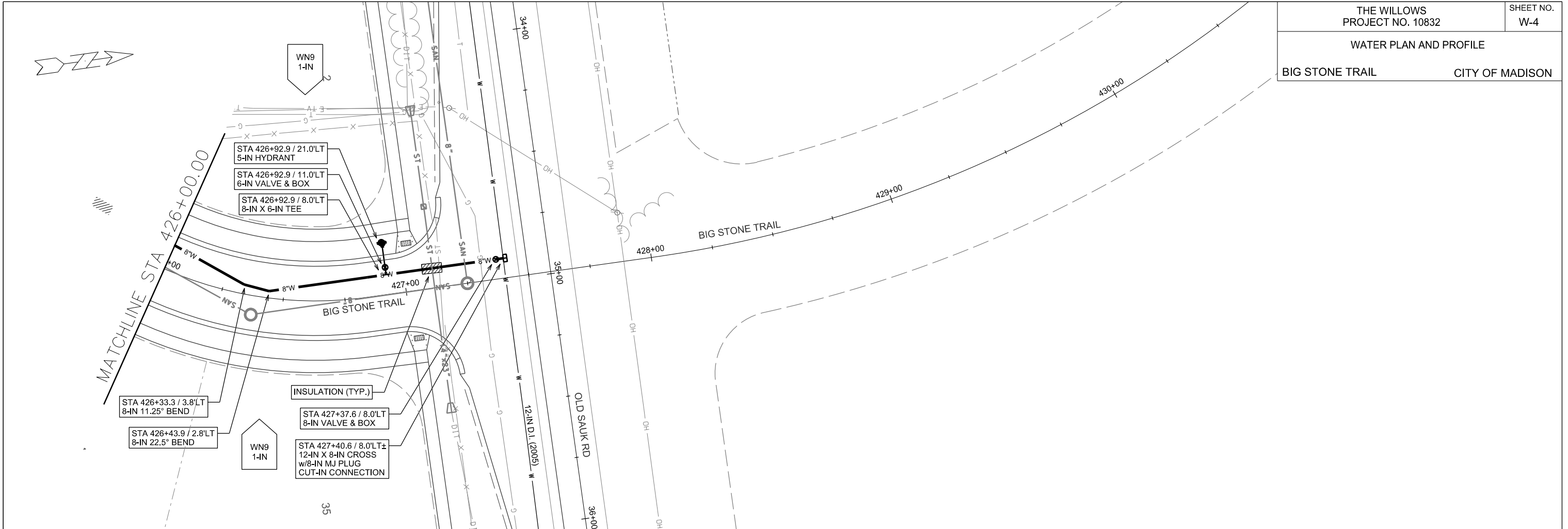


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



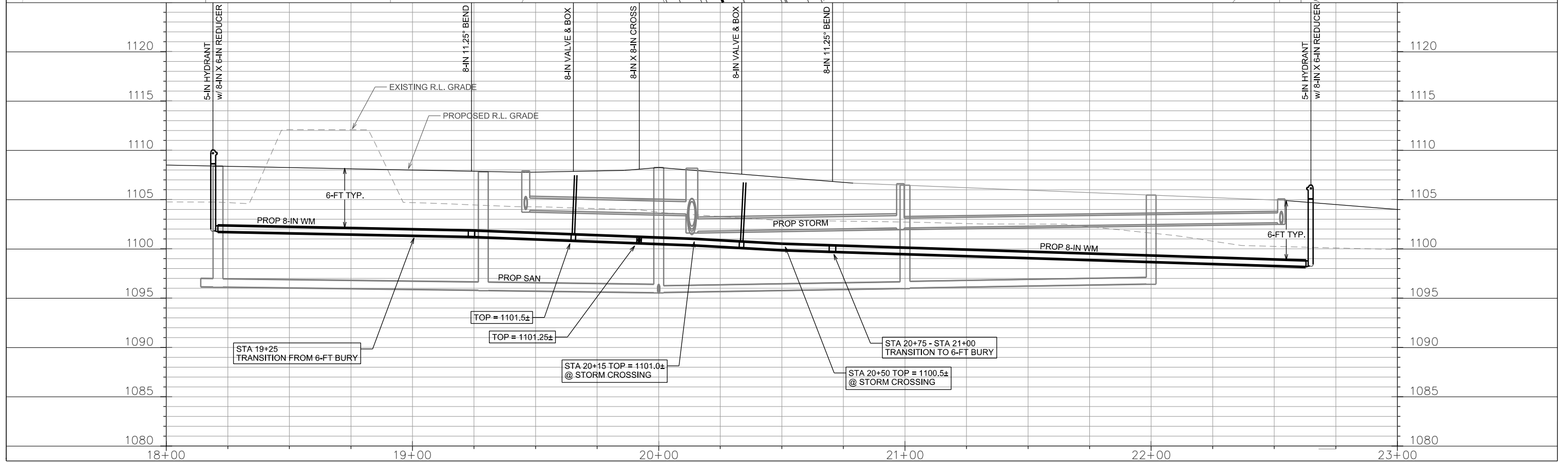
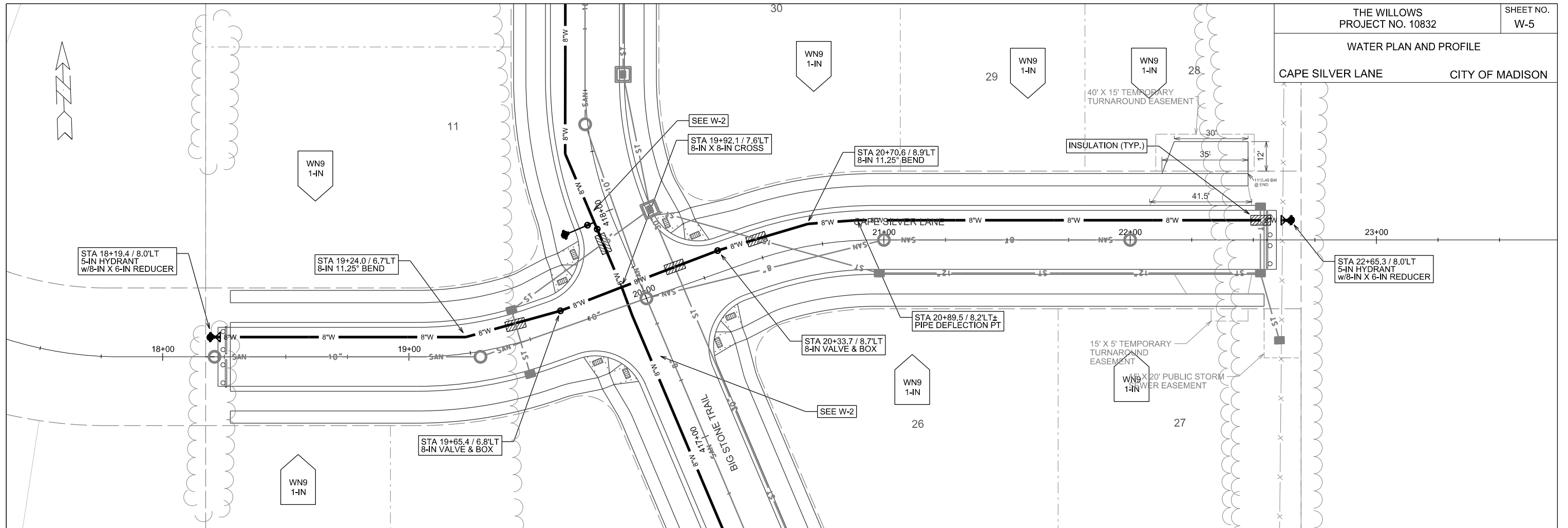
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CAPE SILVER LANE
CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

33

32

31

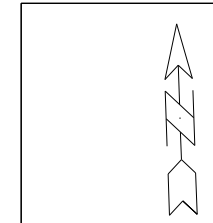
STA 8+31.4 / 8.0'LT
5-IN HYDRANT
w/8-IN X 6-IN REDUCER

INSULATION (TYP.)

STA 9+75.8 / 8.0'LT
8-IN X 8-IN TEE

STA 9+50.6 / 8.0'LT
8-IN VALVE & BOX

SEE W-3

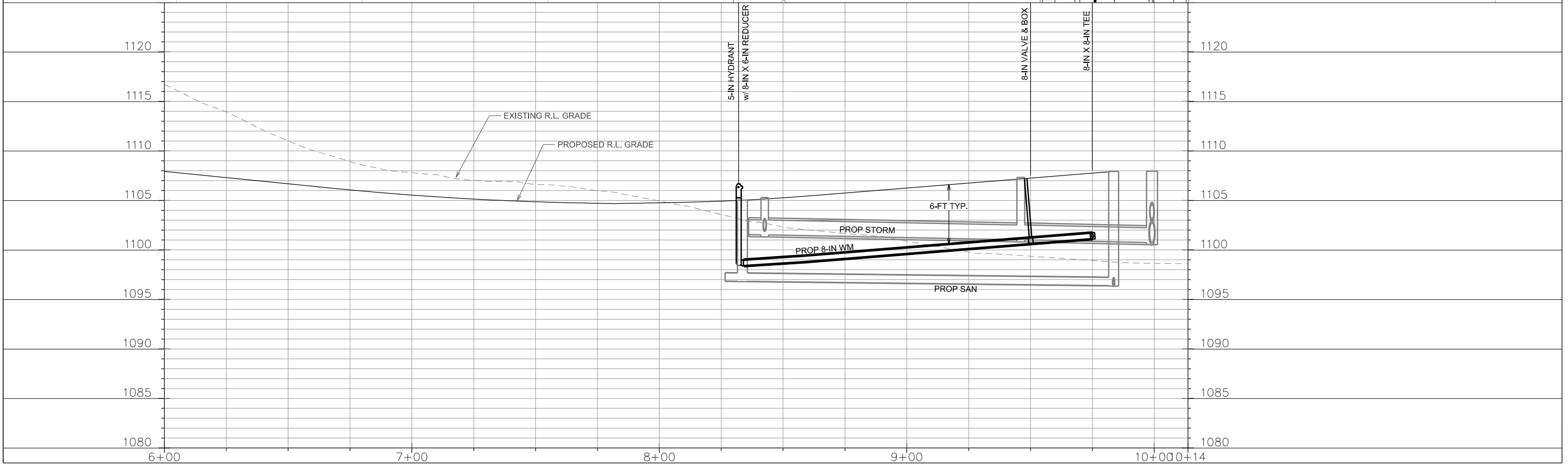
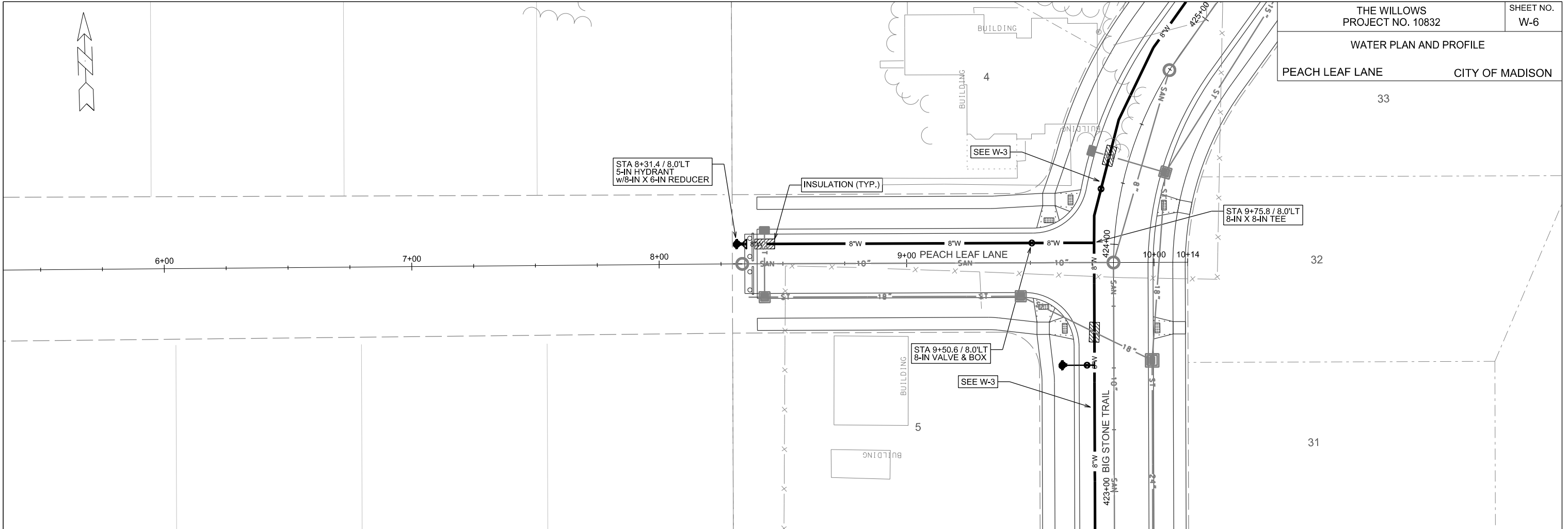


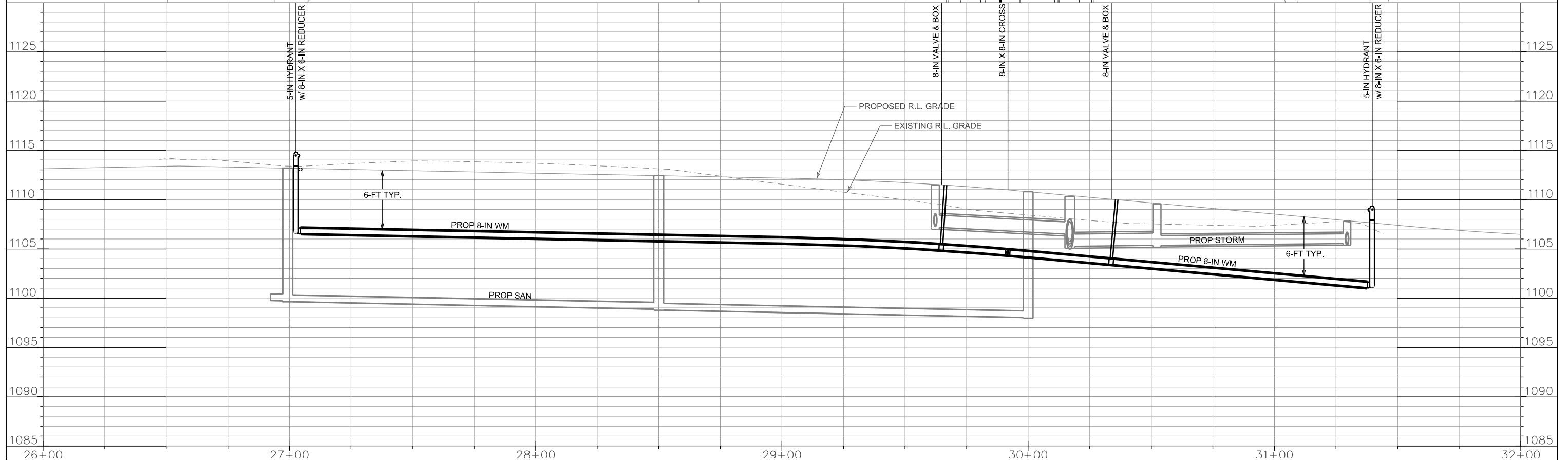
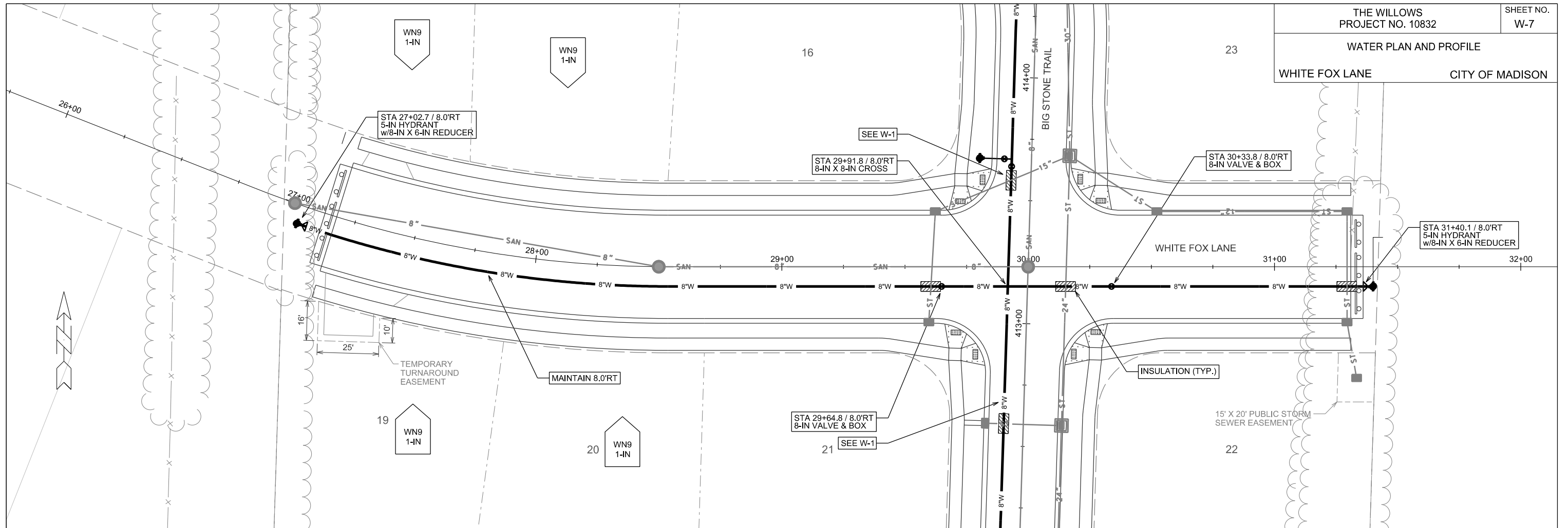
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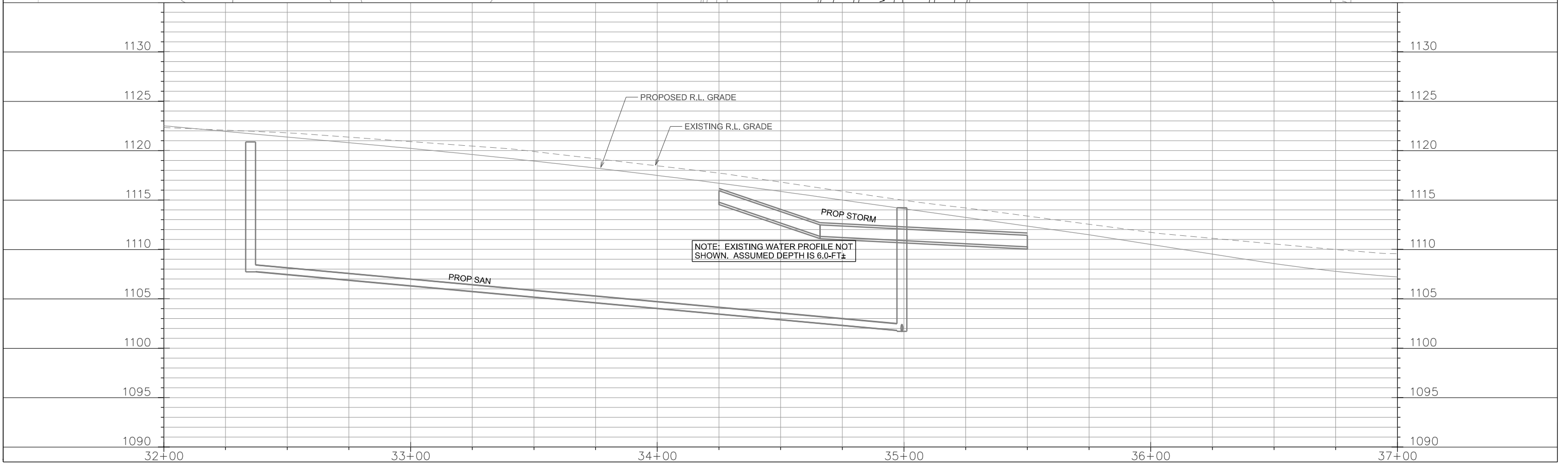
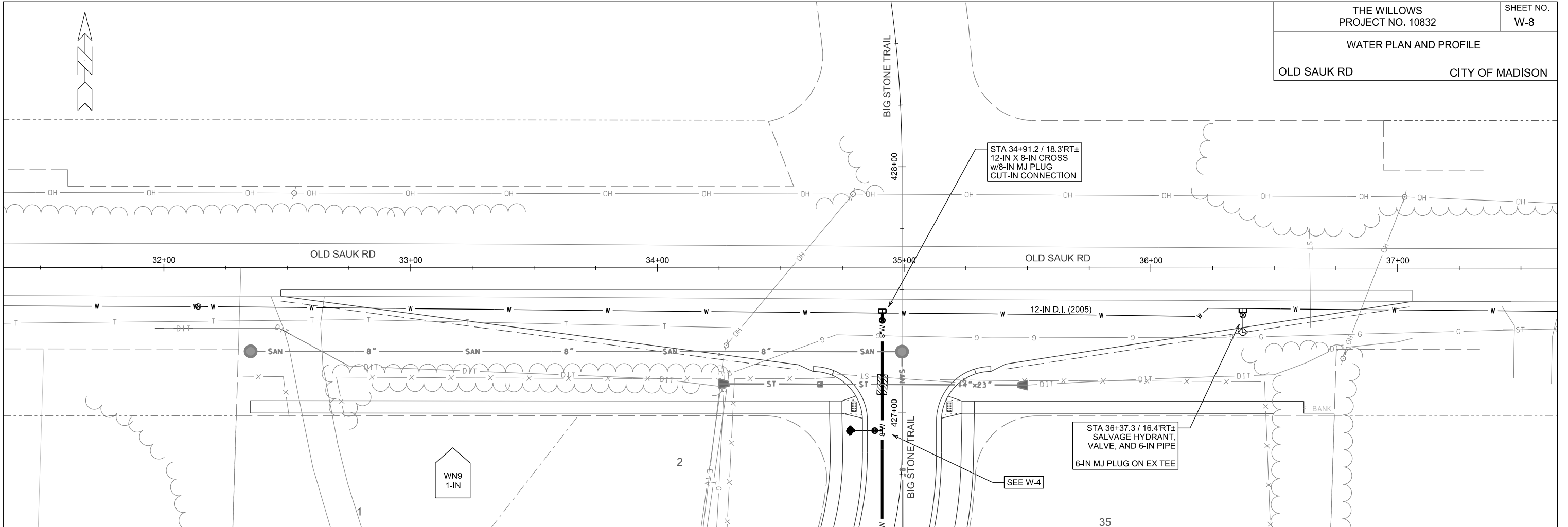
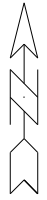


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PLOT SCALE: _____

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CUT-IN CROSS (W-4 AND W-8)
PLUG HYDRANT TEE (W-8)
-TURN VALVES:
*V-2A, V-2B
-NOTIFY:
*645 SCHEWE ROAD
(MIDDLETON CHURCH)

700

BIG STONE TRAIL

DEAD END

OLD SAUK ROAD

OLD SAUK ROAD

V-2A

V-2B

9800

1

2

35

3

34

4

33

PEACH LEAF LANE

32

MIDDLETON COMMUNITY CHURCH

31

5

6

7

8

OUTLOT 2

9

BIG STONE TRAIL

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME:

DATE:

6-IN FIRE SERVICE LATERALS

CONSTRUCTION NOTES:

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

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

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 80-FT - 6-IN PIPE
- 2600-FT - 8-IN PIPE
- 3000-FT - POLYWRAP
- 4 - 6-IN VALVE & BOX
- 9 - 8-IN VALVE & BOX
- 4 - 8-IN X 6-IN TEE
- 1 - 8-IN X 8-IN TEE
- 2 - 8-IN x 8-IN CROSS
- 1 - 12-IN X 8-IN CROSS
- 6 - 8-IN X 6-IN REDUCER
- 1 - 6-IN MJ PLUG
- 1 - 8-IN MJ PLUG
- 6 - 8-IN 11.25° BEND
- 3 - 8-IN 22.5° BEND
- 8 - 8-IN 45° BEND
- 10 - 5-IN HYDRANT
- 150-FT - 2-IN STYROFOAM INSULATION
- 1-IN COPPER SERVICE PIPING (AS REQUIRED)

ESTIMATE OF MATERIALS SALVAGED:

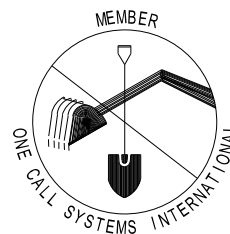
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 1 - 6-IN VALVE & BOX
- 1 - 5-IN HYDRANT

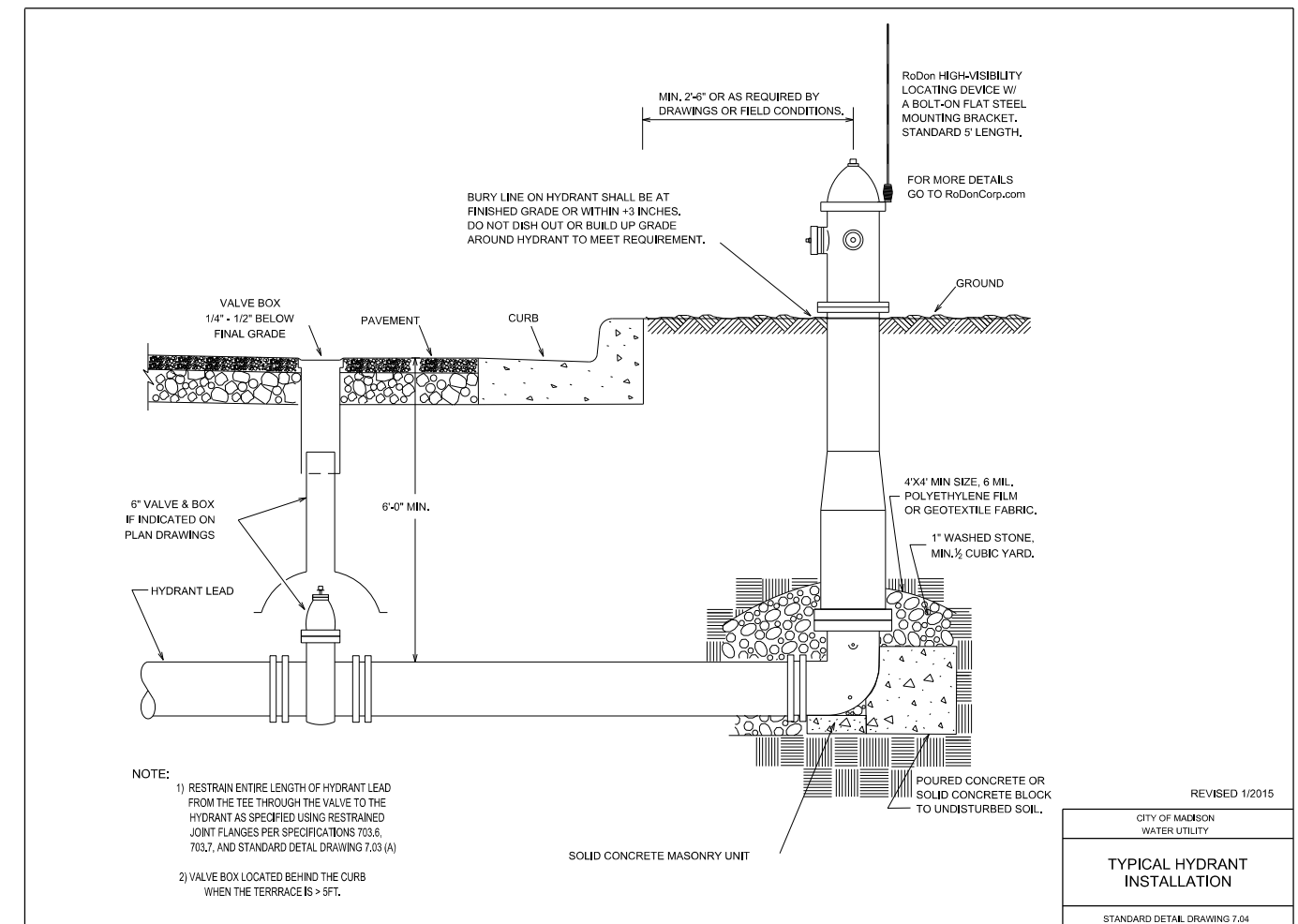
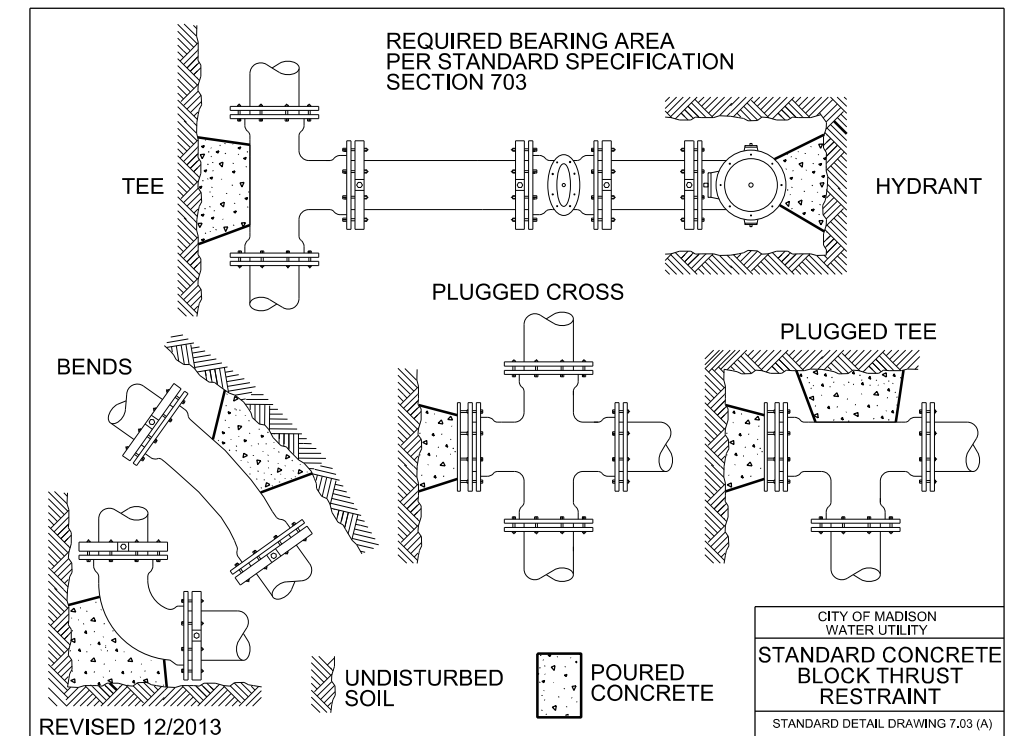
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

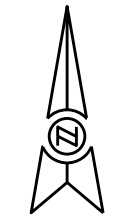
CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

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



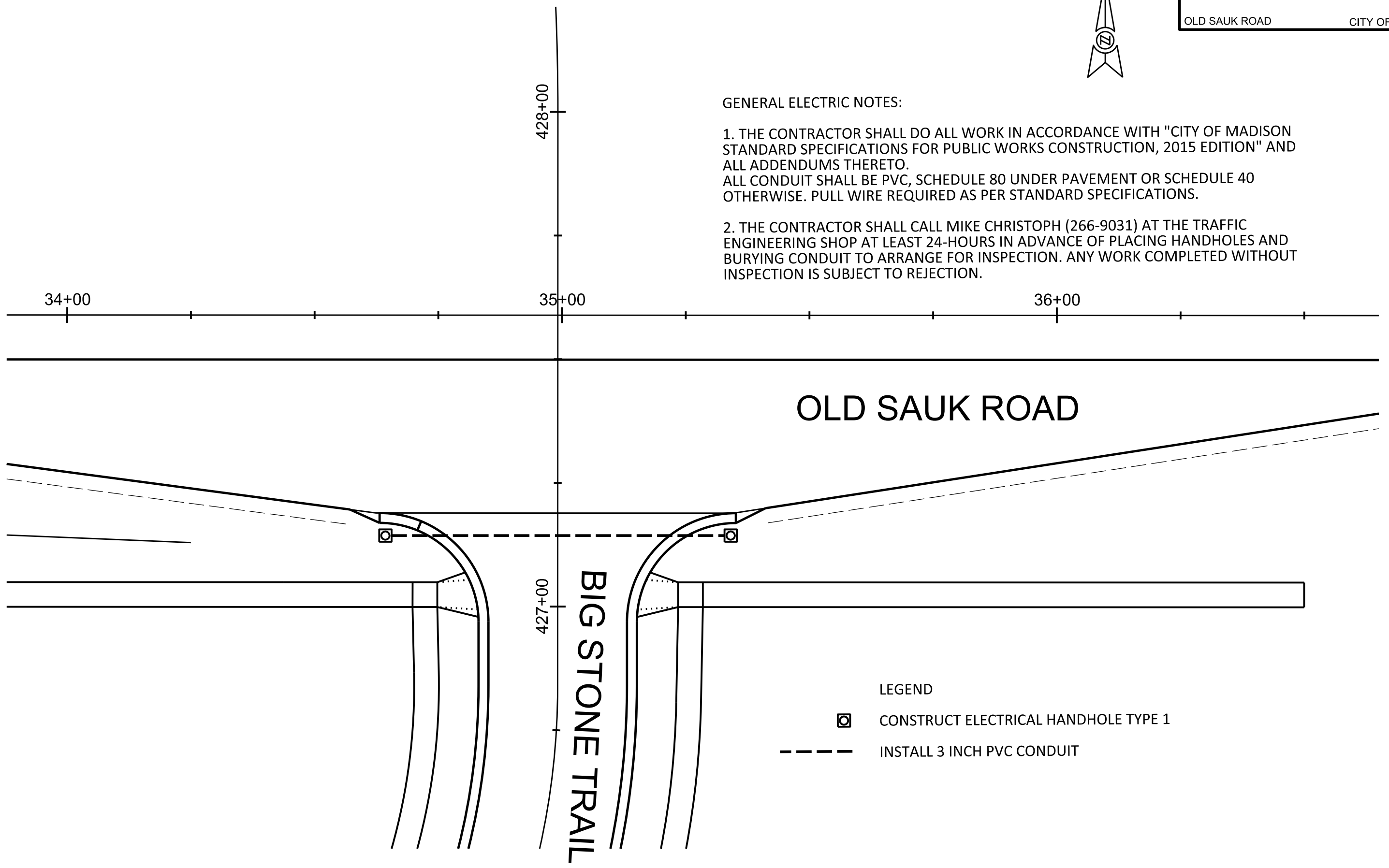
DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.







GENERAL ELECTRIC NOTES:

1. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2015 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.
2. THE CONTRACTOR SHALL CALL MIKE CHRISTOPH (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF PLACING HANDHOLES AND BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.



- LEGEND
-  CONSTRUCT ELECTRICAL HANDHOLE TYPE 1
 -  INSTALL 3 INCH PVC CONDUIT

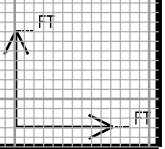
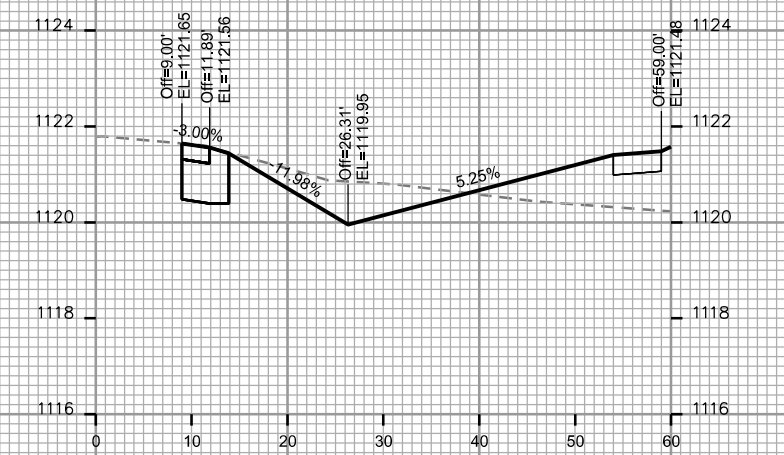
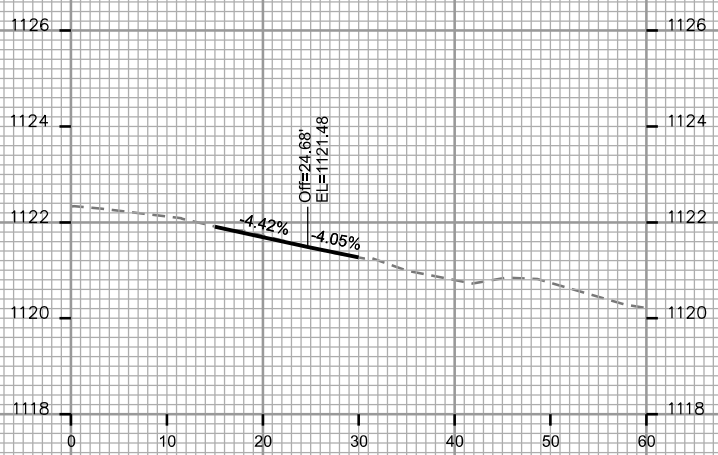
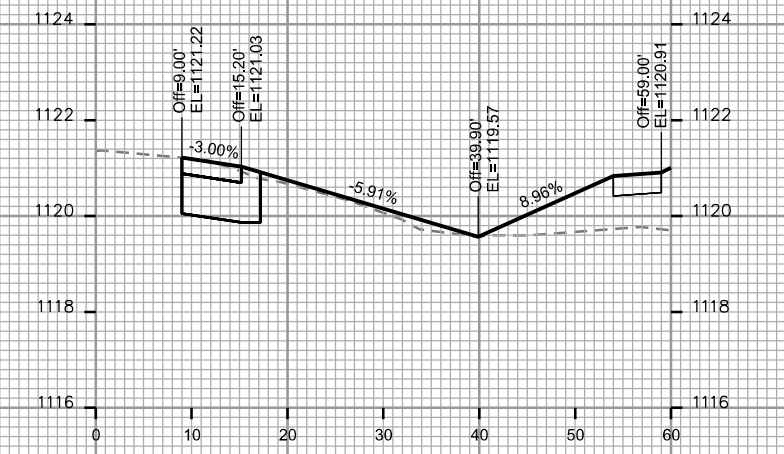
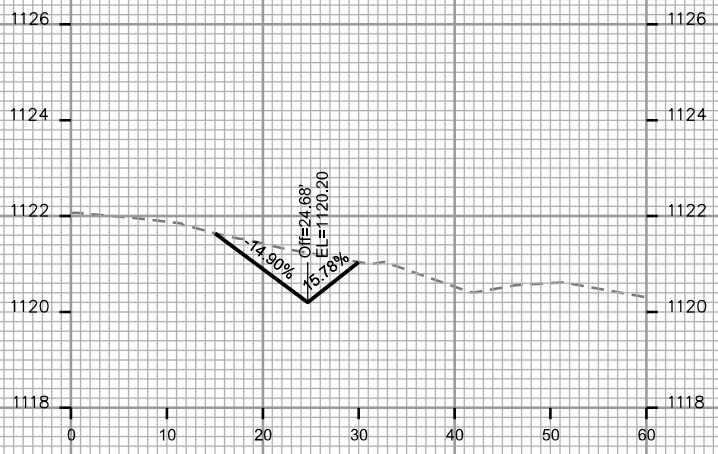
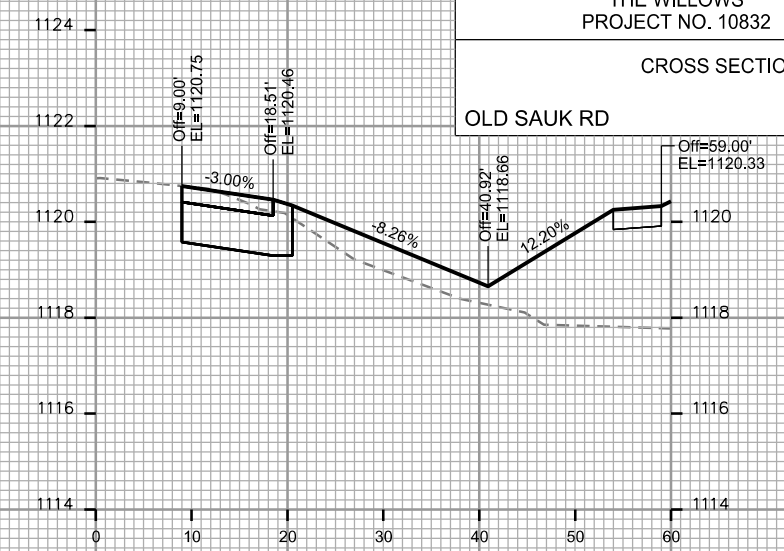
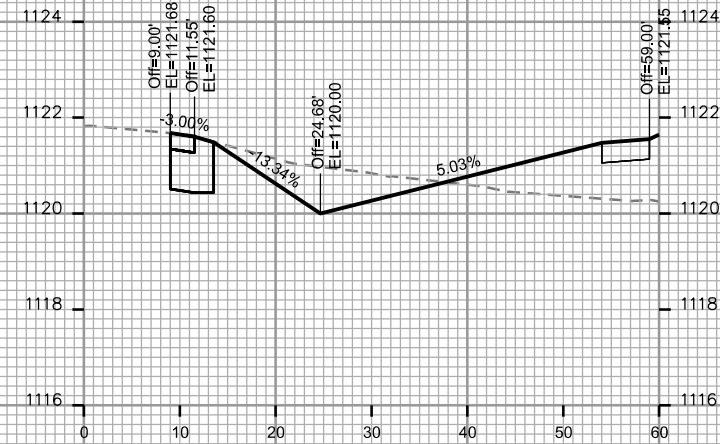
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

CROSS SECTIONS
OLD SAUK RD
CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

OLD SAUK RD

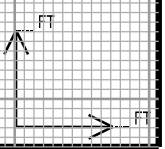
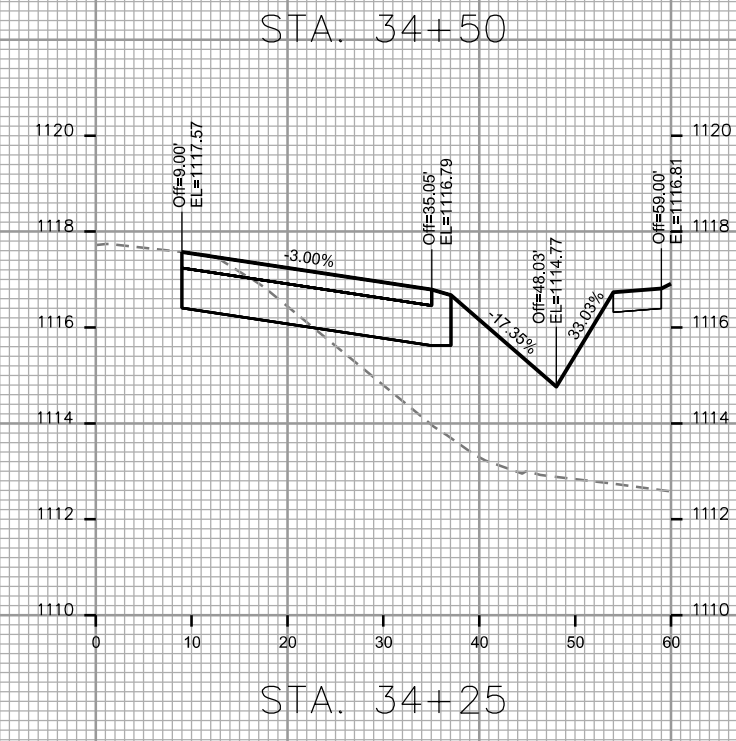
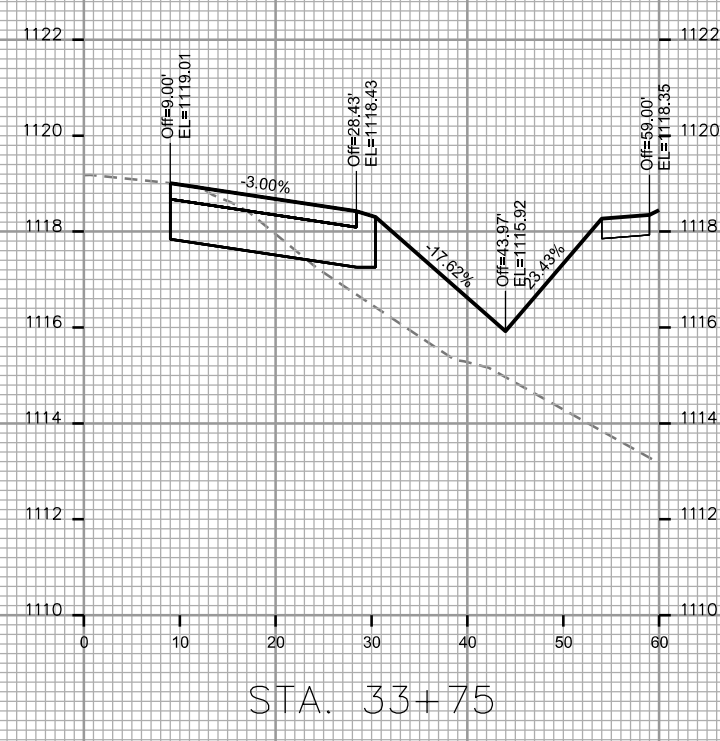
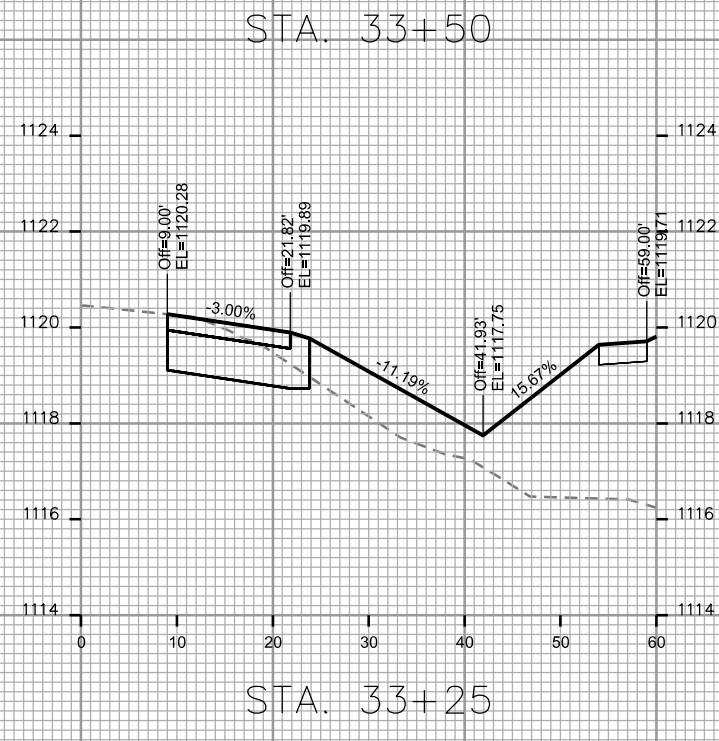
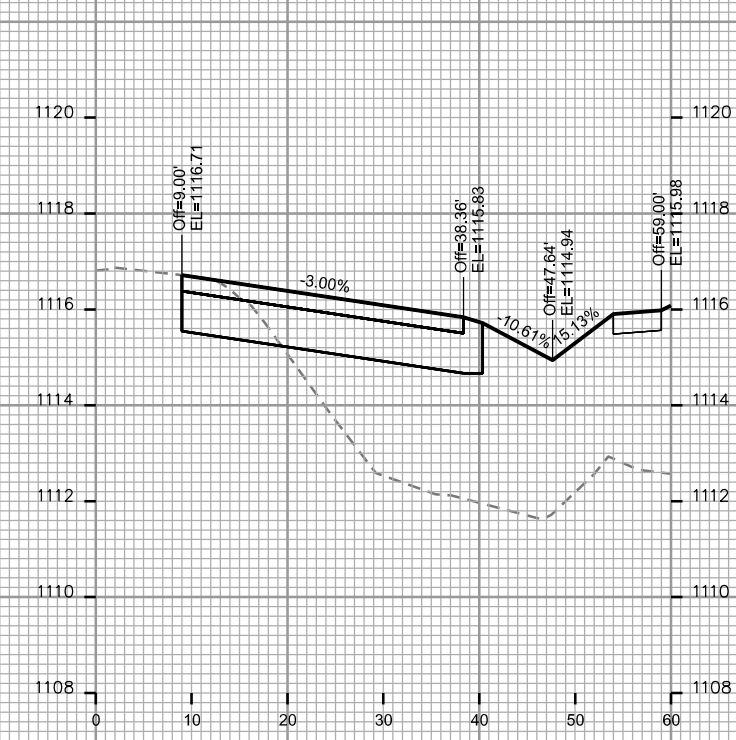
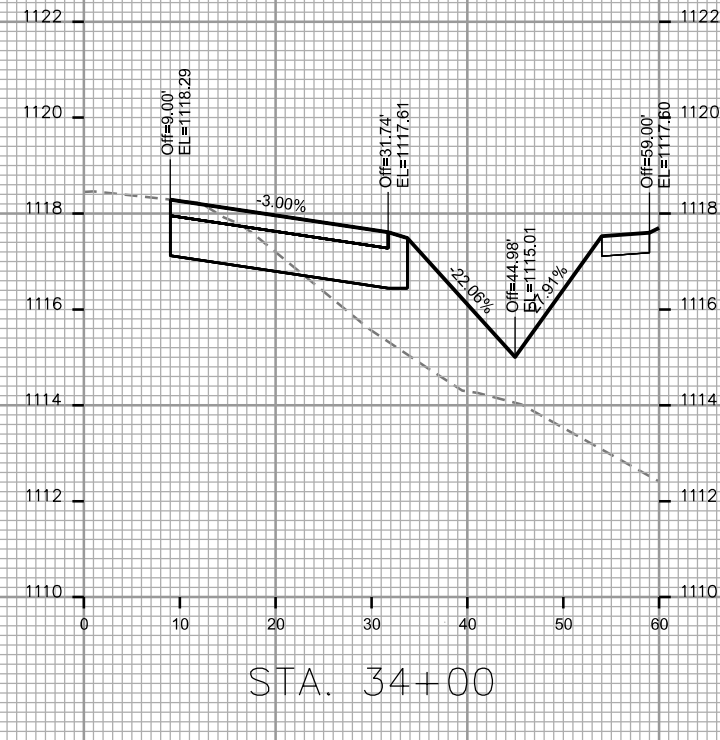
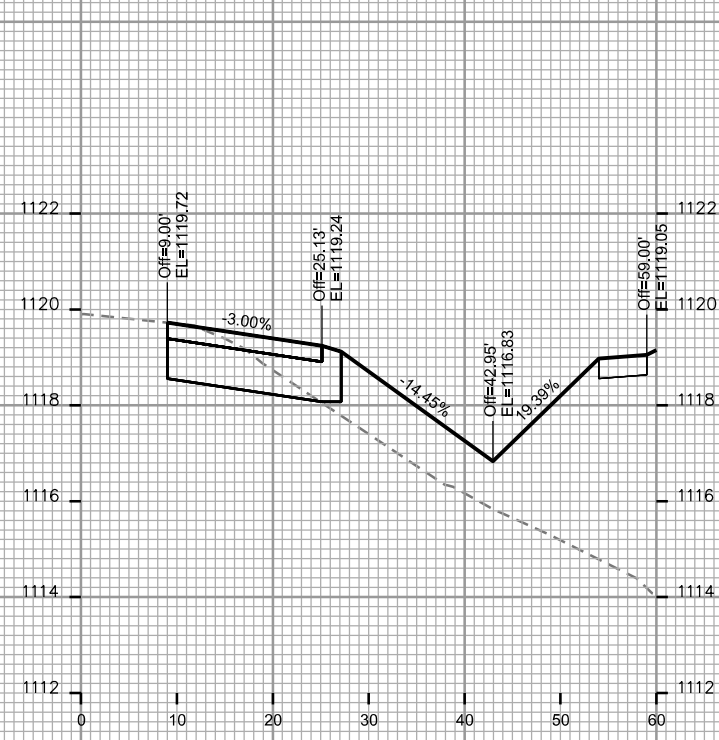
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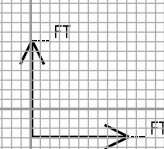
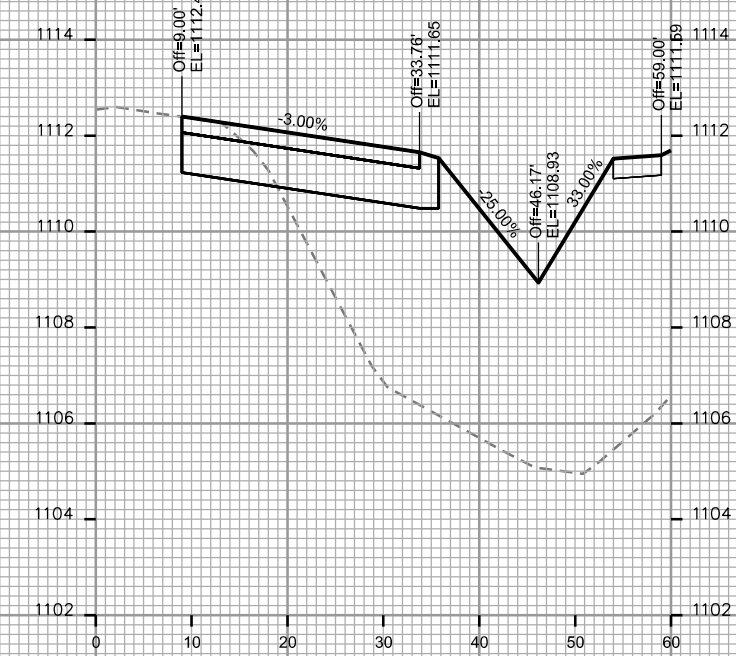
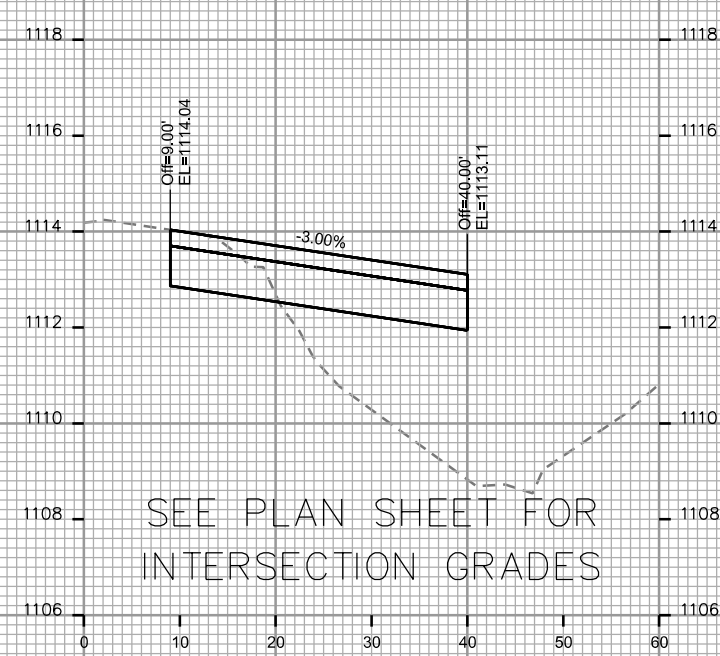
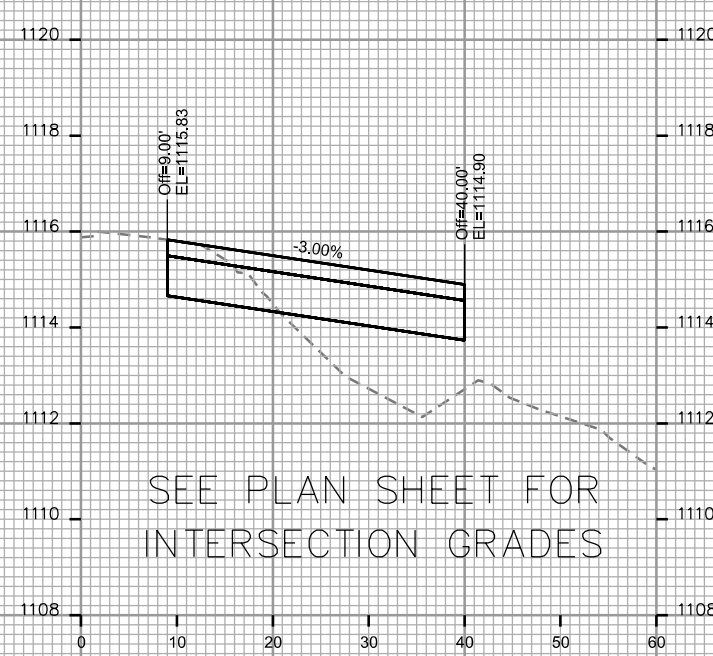
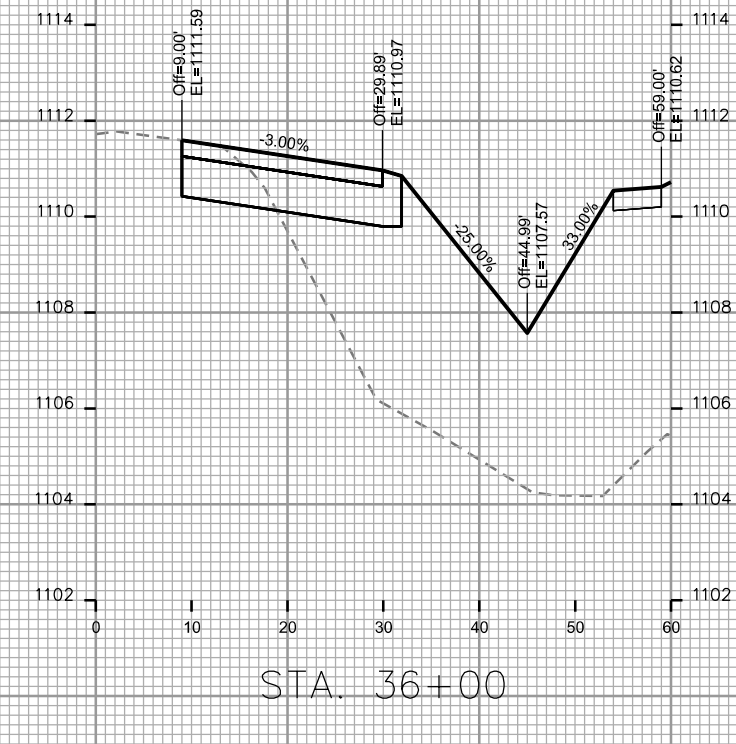
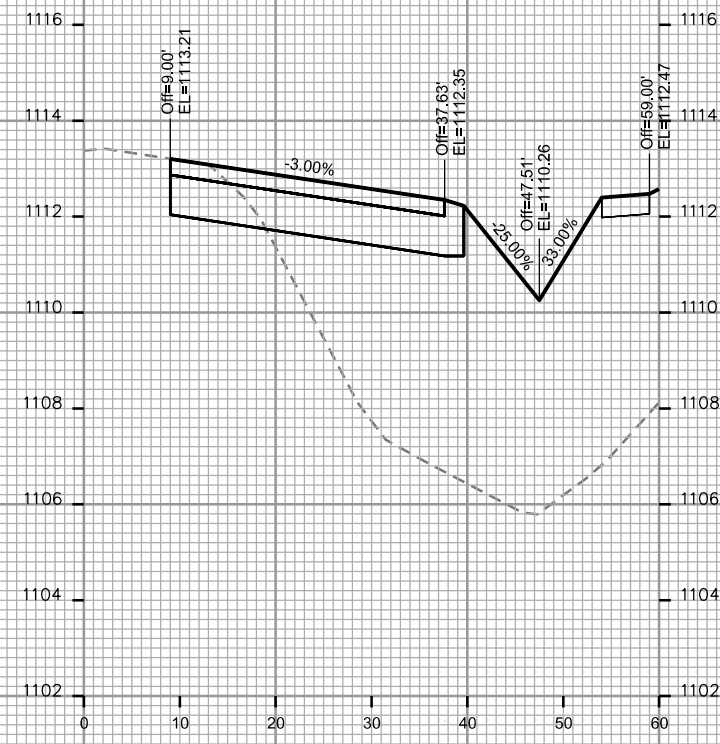
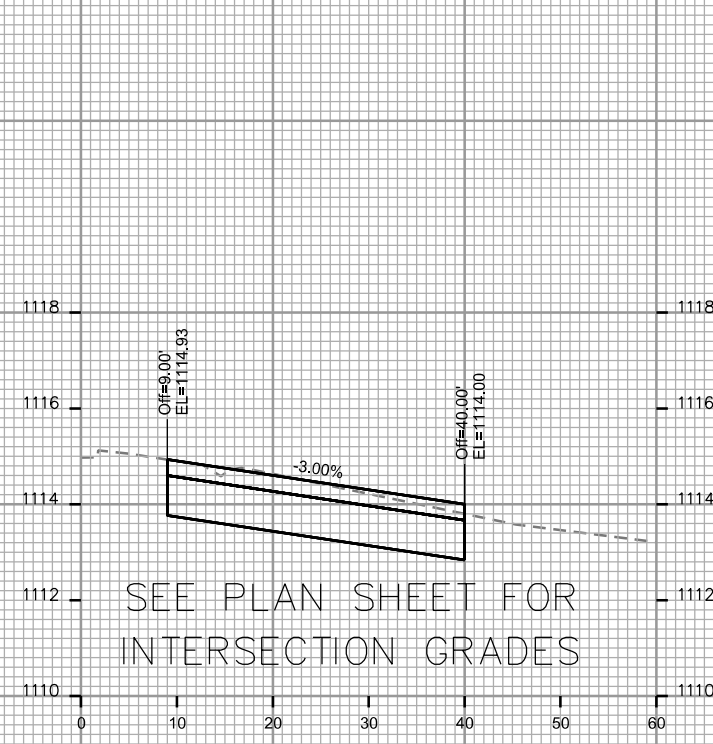
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