

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

Madison, Wisconsin
INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
DI-D3	STREET PLAN AND PROFILES
PI-P4	UTILITIES PLAN AND PROFILES
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U5	STORM SEWER SCHEDULE
U6	WATER PLAN AND PROFILES
W1-W4	WATER IMPACT PLAN
W5	WATER MATERIALS
W6	CROSS SECTIONS: WOODS RD
XI-X8	

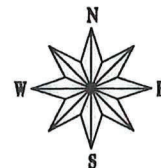
<PAVEMENT MARKING PLAN REV 2020 08-06 JPS

HAWKS VALLEY PHASE 4

CITY PROJECT NO. 11773

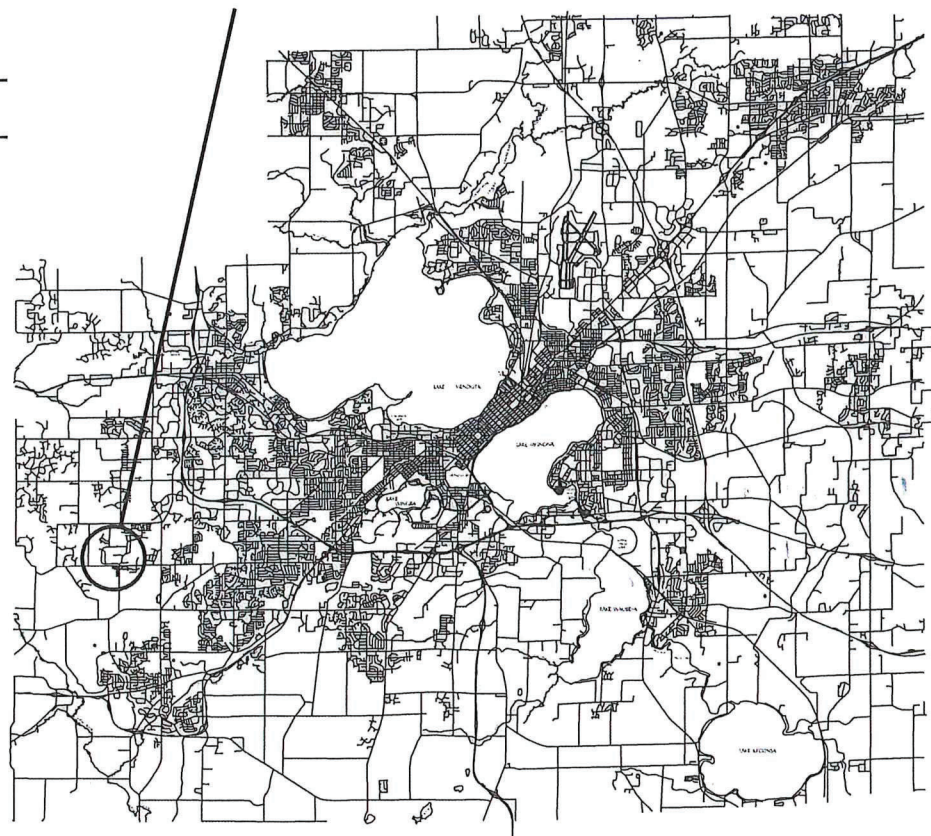
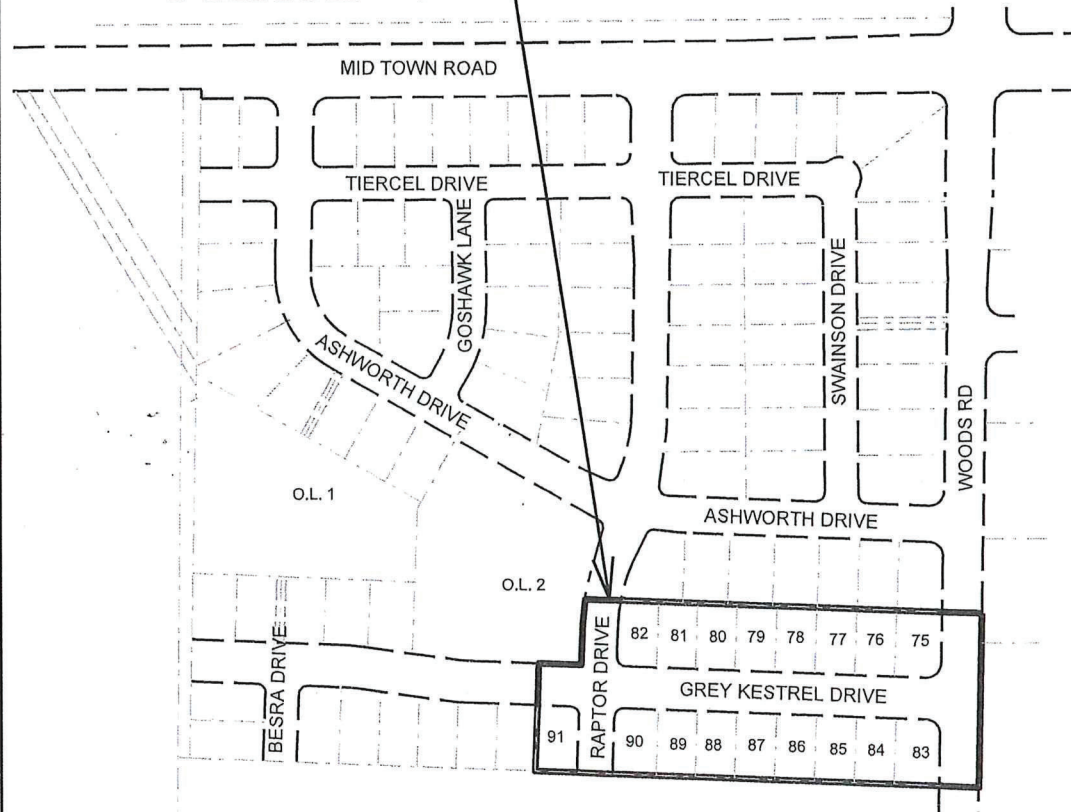
CITY CONTRACT NO. 8078

MUNIS NO. 11773



PROJECT LOCATION

PHASE 4



PUBLIC IMPROVEMENT PROJECT APPROVED

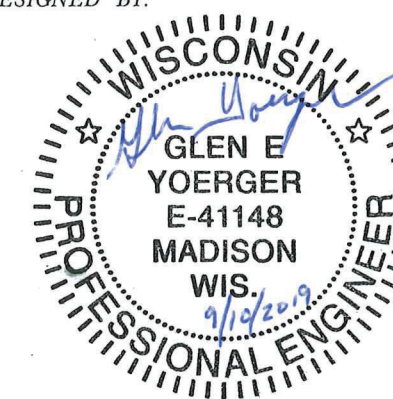
MAY 21, 2019

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

G. J. J. 9/11/19
City Engineer Date

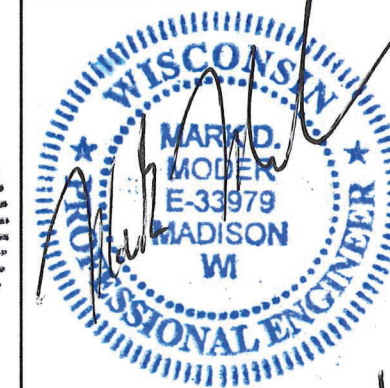
STREET GRADES DESIGNED BY:



STREET GEOMETRICS DESIGNED BY:



SANITARY SEWER DESIGNED BY:



WATER DESIGNED BY:



STORM SEWER DESIGNED BY:



PLOT SCALE:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

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.

RAPTOR DRIVE AND GREY KESTREL DRIVE SHALL BE TYPE B PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

WOODS ROAD SHALL BE TYPE C 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.

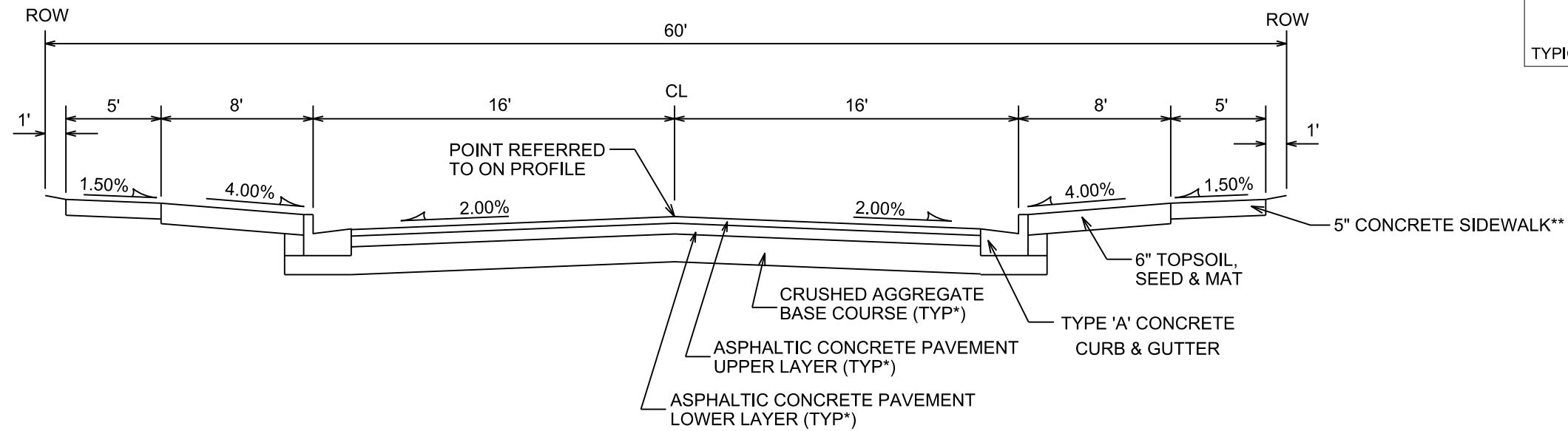
CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

PLOT SCALE: _____

PLOT NAME: _____

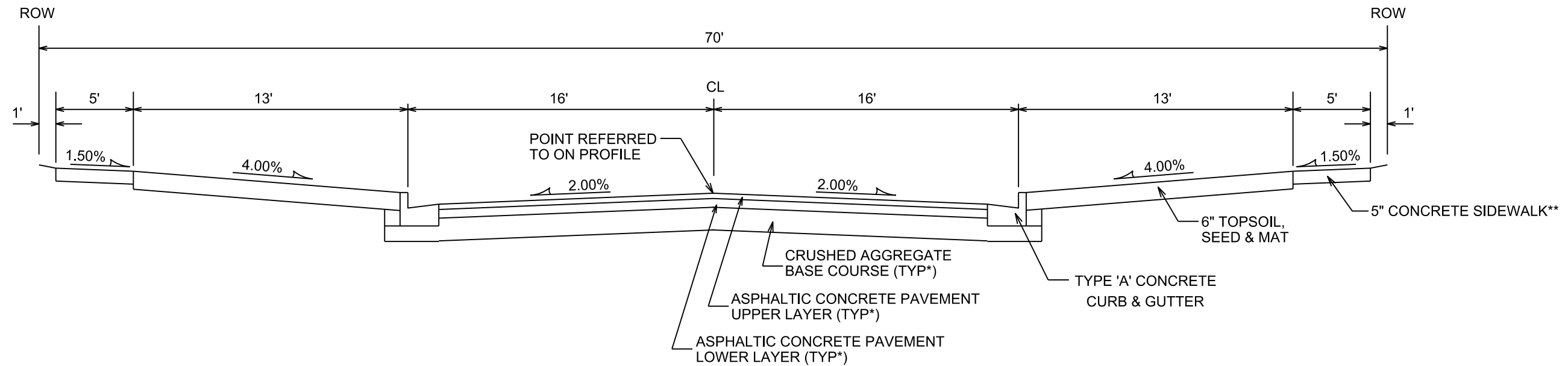
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

RAPTOR DRIVE
STA 91+57 TO STA 94+35



TYPICAL SECTION

GREY KESTREL DRIVE
STA 77+25 TO STA 83+94

†CITY OF MADISON MINIMUM PAVEMENT DESIGN

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

NOTES:

* RAPTOR DRIVE AND GREY KESTREL DRIVE TO BE CONSTRUCTED AS TYPE 'B' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN.†

** INSTALL 2" OF SELECT FILL AS BASE FOR SIDEWALK. WHEN STREET GRADE EXCEEDS 5% INSTALL 3" OF GRADATION NO. 3.

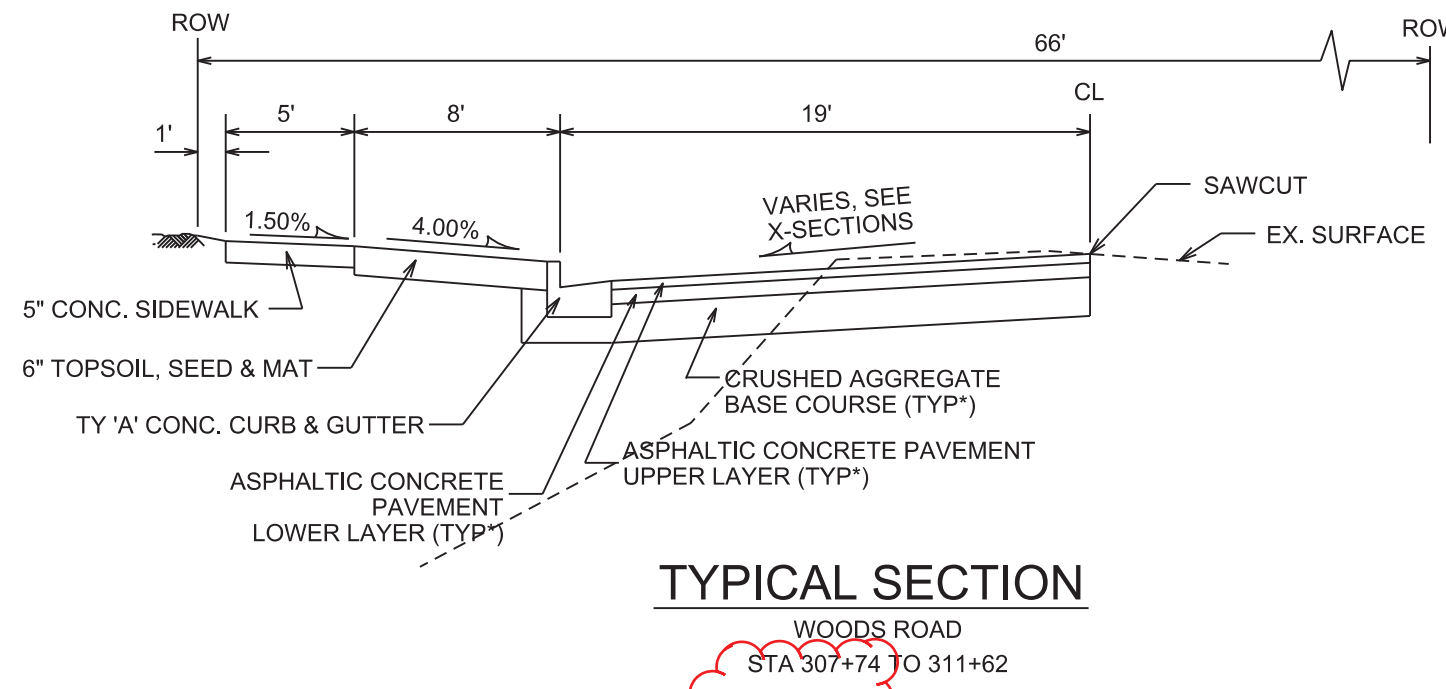
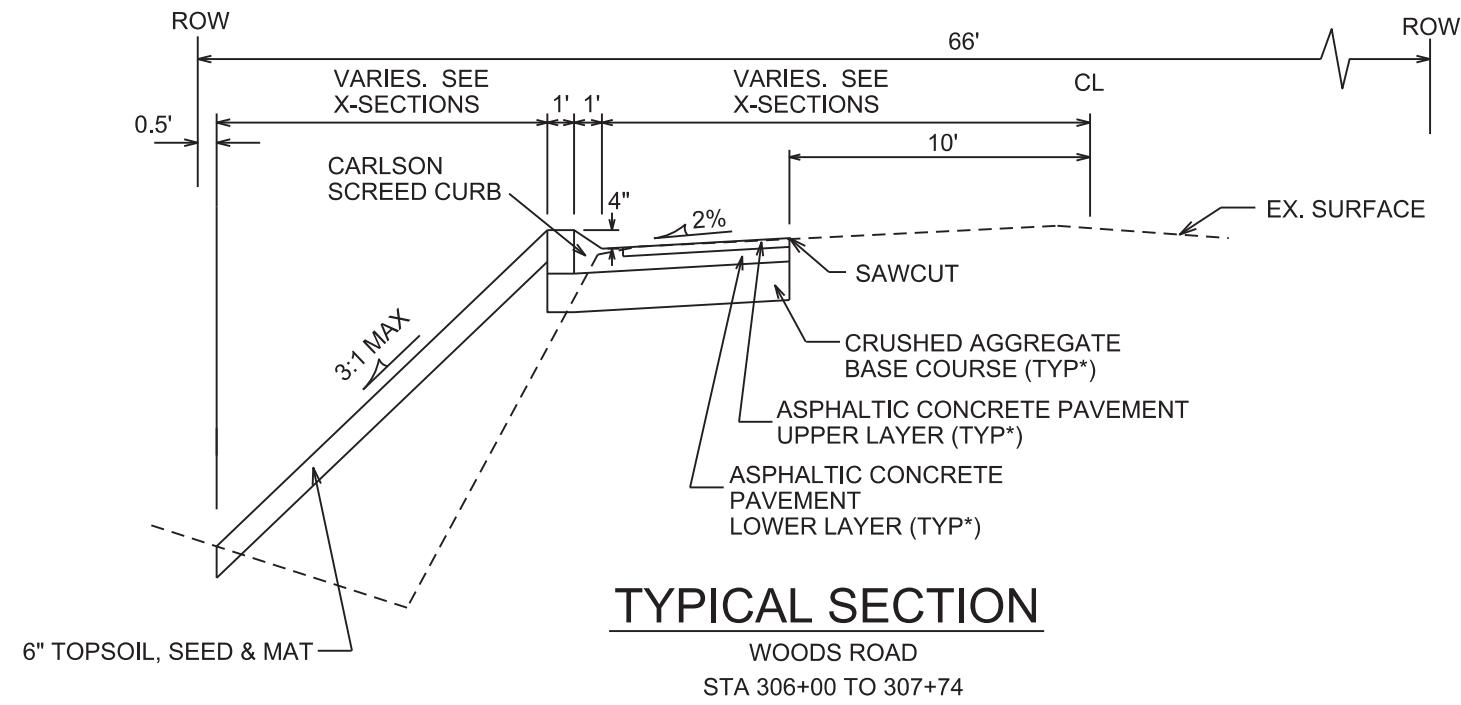
- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 4.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



†CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGGREGATE BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
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C	6"	6"	3 MT 58-28 S/H 3 HT 58-28 H	3.50"	4 MT 58-28 S/H 4 HT 58-28 H	2.00"

NOTES:

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

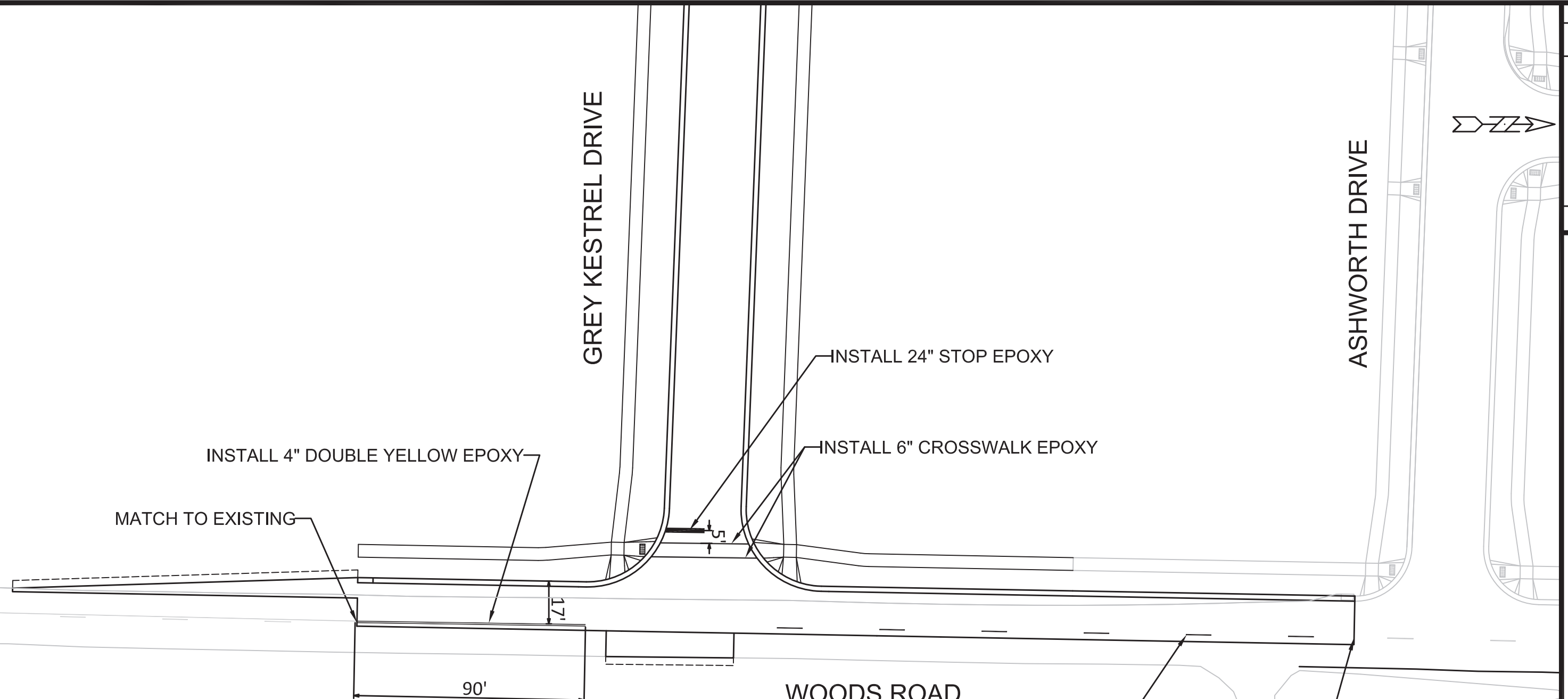
- THE DEVELOPER SHALL BE RESPONSIBLE FOR SURFACE PAVING ALL OF PHASE 4.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MARK	REVISION	DATE	BY
11773	4-23-20		M-1
Designed By: SDM	Drafter: 4-23-20	Scale: 1:40	

11773
 MADISON, WI
 CONTRACT NO: 8078
 PAVEMENT MARKING PLAN
 GREY KESTREL DRIVE
 M:\DESIGN\Projects\11773\Traffic\Design\11773TE-Pvmt-Mrk.dwg



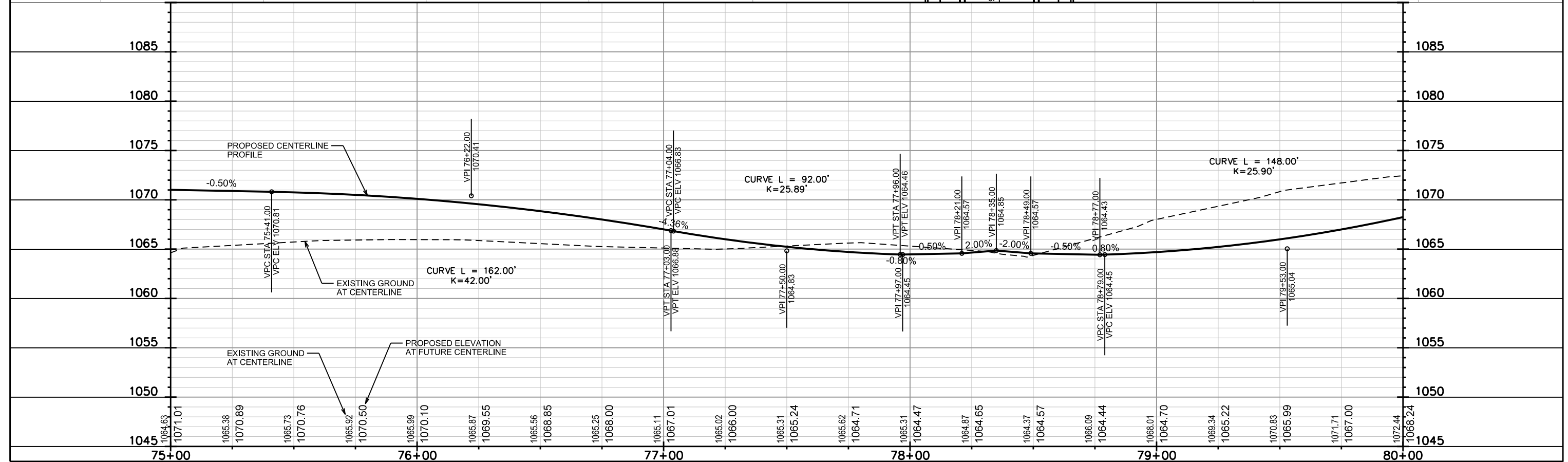
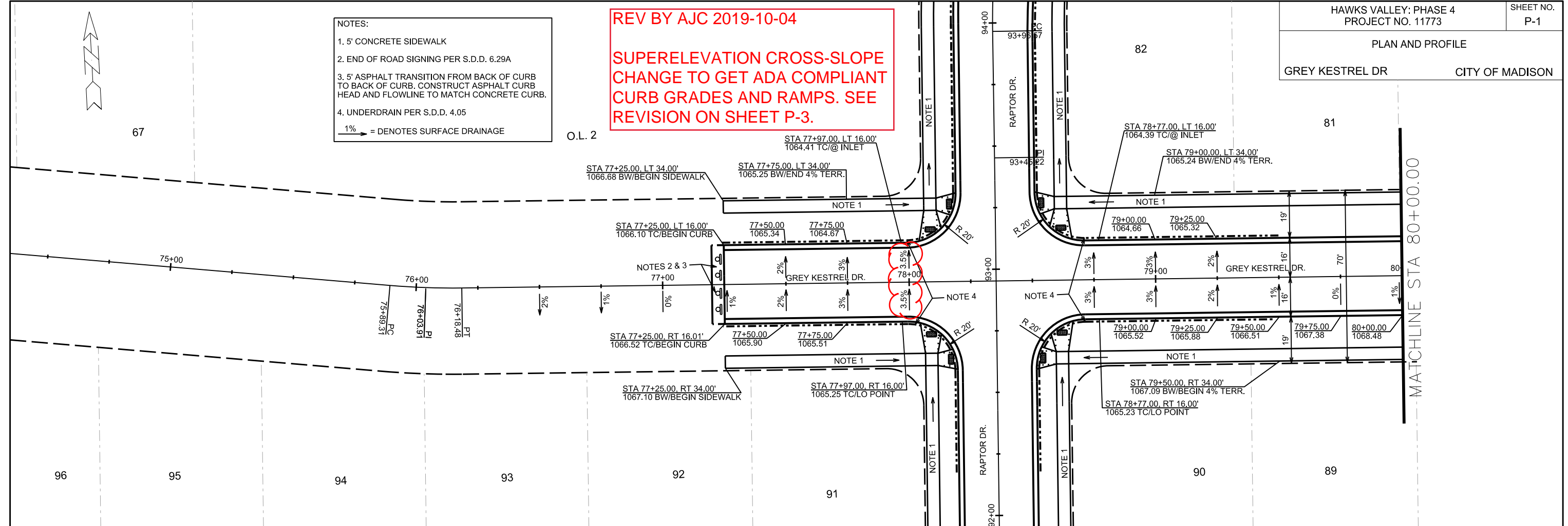
11773
 M-1

REV. 2020 08-06 SDM
 NEW SHEET FOR
 PAVEMENT MARKINGS

- NOTES:
- 5' CONCRETE SIDEWALK
 - END OF ROAD SIGNING PER S.D.D. 6.29A
 - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
 - UNDERDRAIN PER S.D.D. 4.05
- 1% → = DENOTES SURFACE DRAINAGE

REV BY AJC 2019-10-04

SUPERELEVATION CROSS-SLOPE CHANGE TO GET ADA COMPLIANT CURB GRADES AND RAMPS. SEE REVISION ON SHEET P-3.



PLOT SCALE: _____

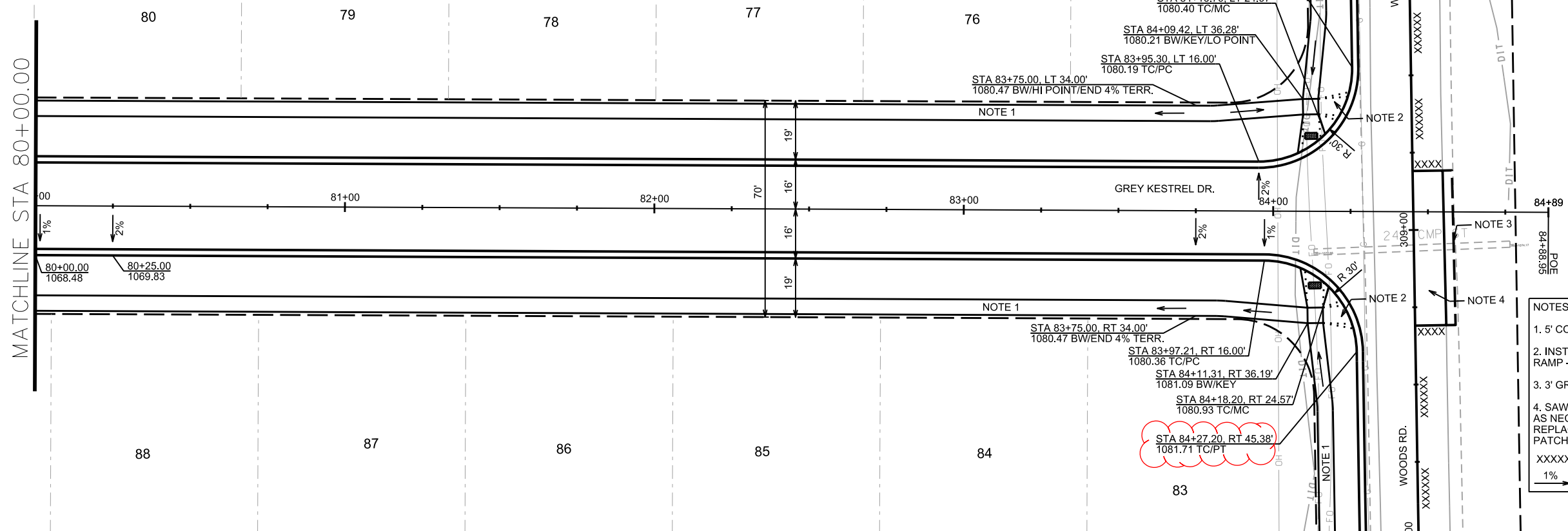
PLOT NAME: _____

REV. DATE: _____

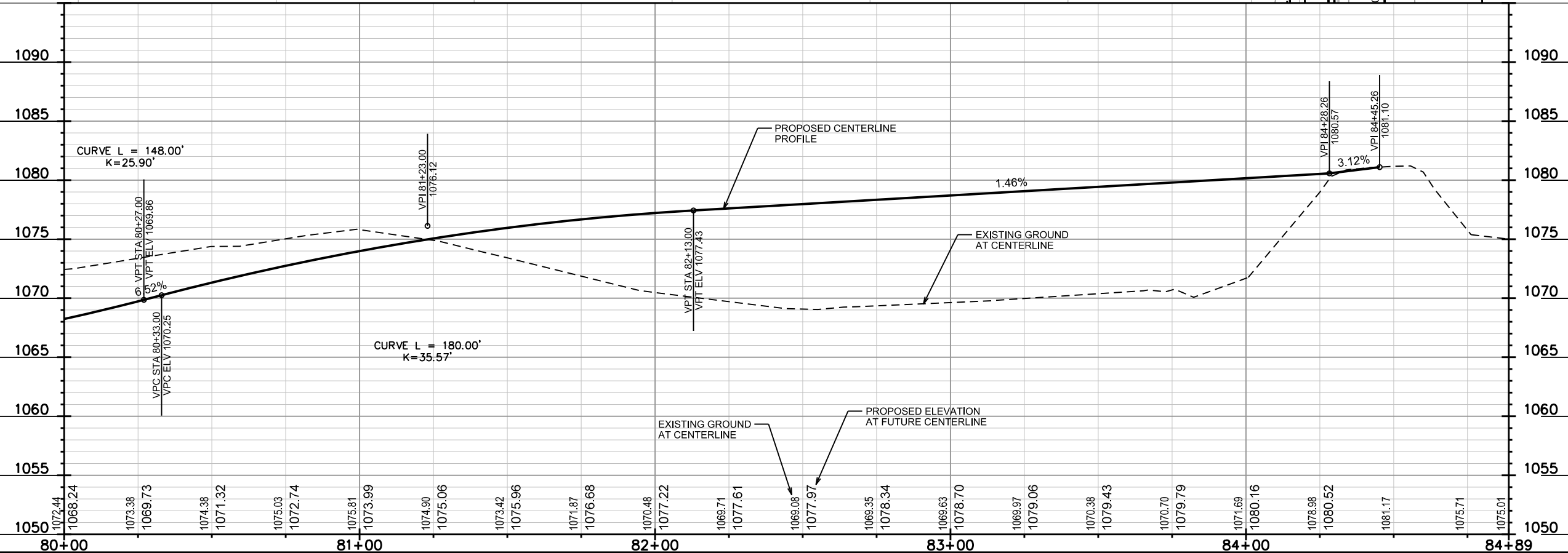
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV BY AJC 2019-10-04
CURB GRADE CHANGE TO CORRECT DRAFTING ERROR.

PLAN AND PROFILE
GREY KESTREL DR CITY OF MADISON



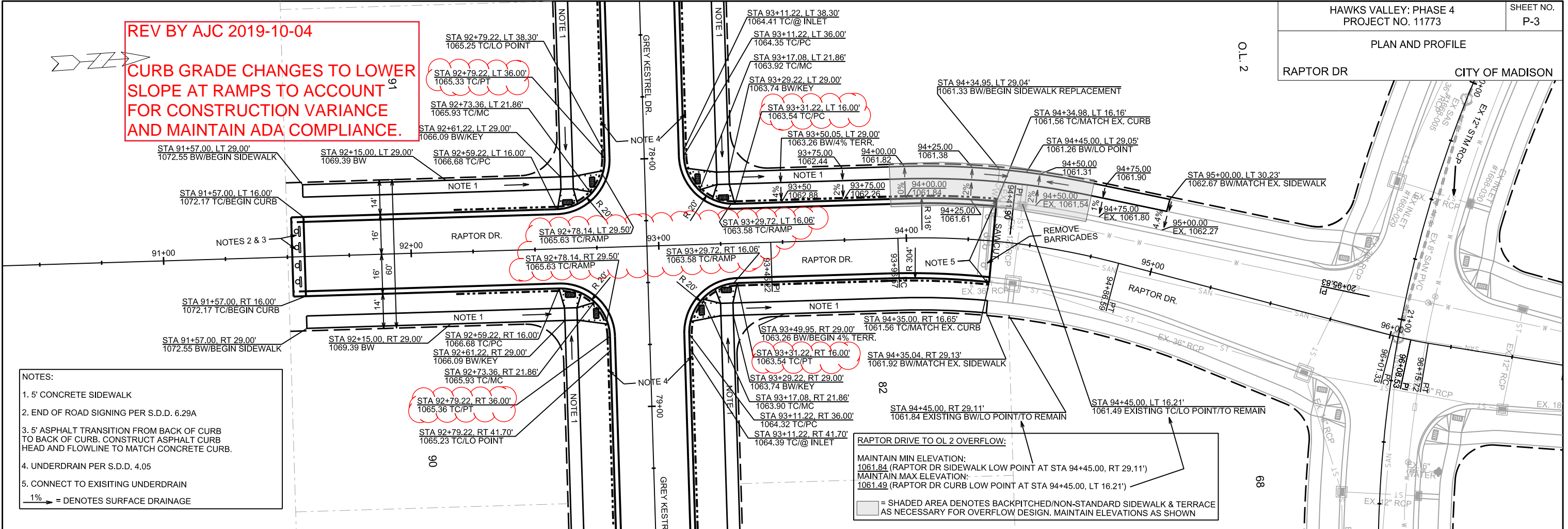
- NOTES:
1. 5' CONCRETE SIDEWALK
 2. INSTALL CURB CUTS FOR FUTURE RAMP - DO NOT INSTALL PED. RAMP
 3. 3' GRAVEL SHOULDER
 4. SAWCUT AND REMOVE EXISTING ASPHALT AS NECESSARY FOR UTILITY INSTALLATION. REPLACE PER CITY OF MADISON PAVEMENT PATCHING CRITERIA (SEE SHEET D-1).
- XXXXXX = SAWCUT LINE
1% = DENOTES SURFACE DRAINAGE



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

PLAN AND PROFILE
RAPTOR DR CITY OF MADISON

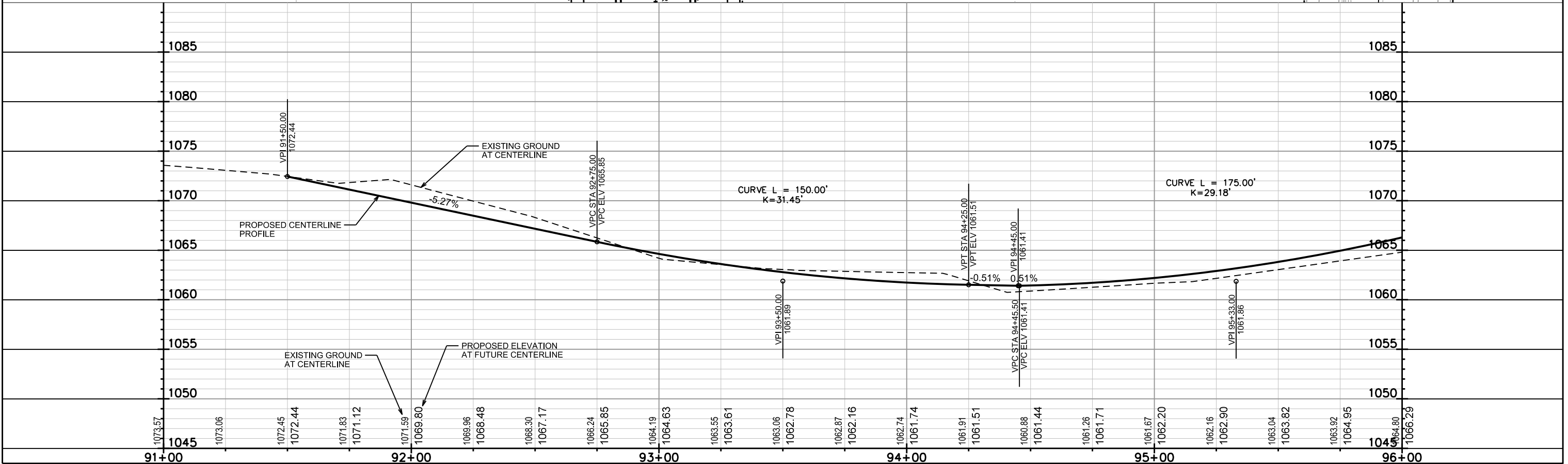
REV BY AJC 2019-10-04
CURB GRADE CHANGES TO LOWER SLOPE AT RAMPS TO ACCOUNT FOR CONSTRUCTION VARIANCE AND MAINTAIN ADA COMPLIANCE.



- NOTES:
- 5' CONCRETE SIDEWALK
 - END OF ROAD SIGNING PER S.D.D. 6.29A
 - 5' ASPHALT TRANSITION FROM BACK OF CURB TO BACK OF CURB. CONSTRUCT ASPHALT CURB HEAD AND FLOWLINE TO MATCH CONCRETE CURB.
 - UNDERDRAIN PER S.D.D. 4.05
 - CONNECT TO EXISTING UNDERDRAIN
- 1% = DENOTES SURFACE DRAINAGE

RAPTOR DRIVE TO OL 2 OVERFLOW:
MAINTAIN MIN ELEVATION:
1061.84 (RAPTOR DR SIDEWALK LOW POINT AT STA 94+45.00, RT 29.11')
MAINTAIN MAX ELEVATION:
1061.49 (RAPTOR DR CURB LOW POINT AT STA 94+45.00, LT 16.21')

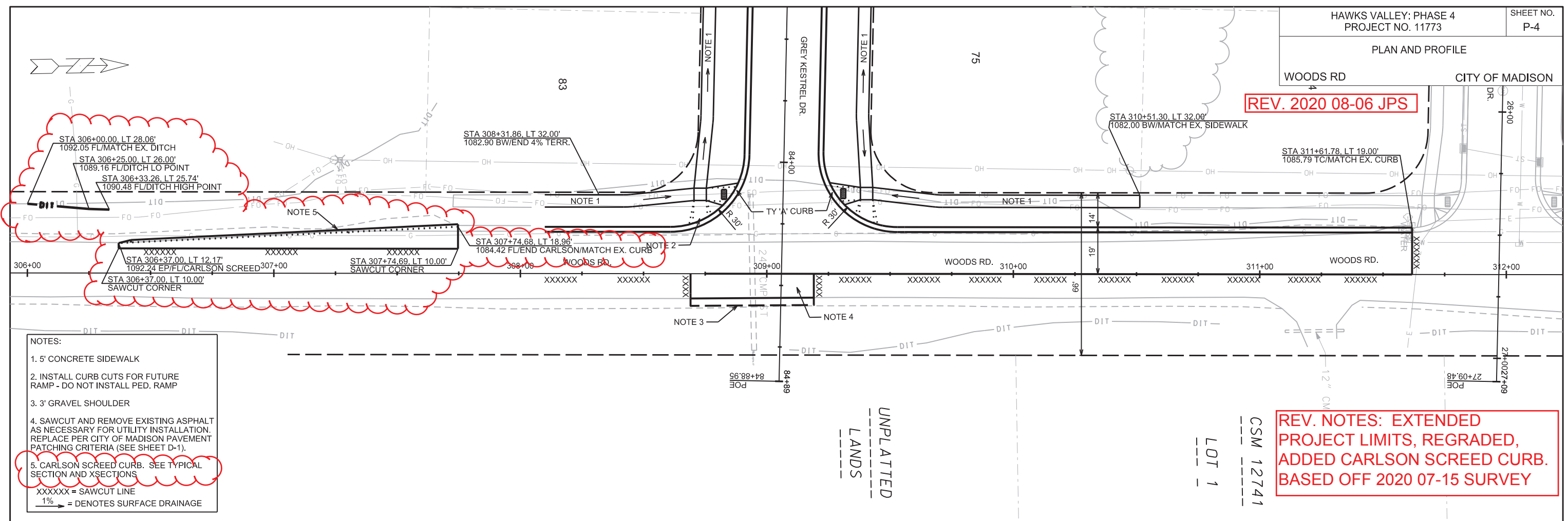
SHADED AREA DENOTES BACKPITCHED/NON-STANDARD SIDEWALK & TERRACE AS NECESSARY FOR OVERFLOW DESIGN. MAINTAIN ELEVATIONS AS SHOWN



PLAN AND PROFILE

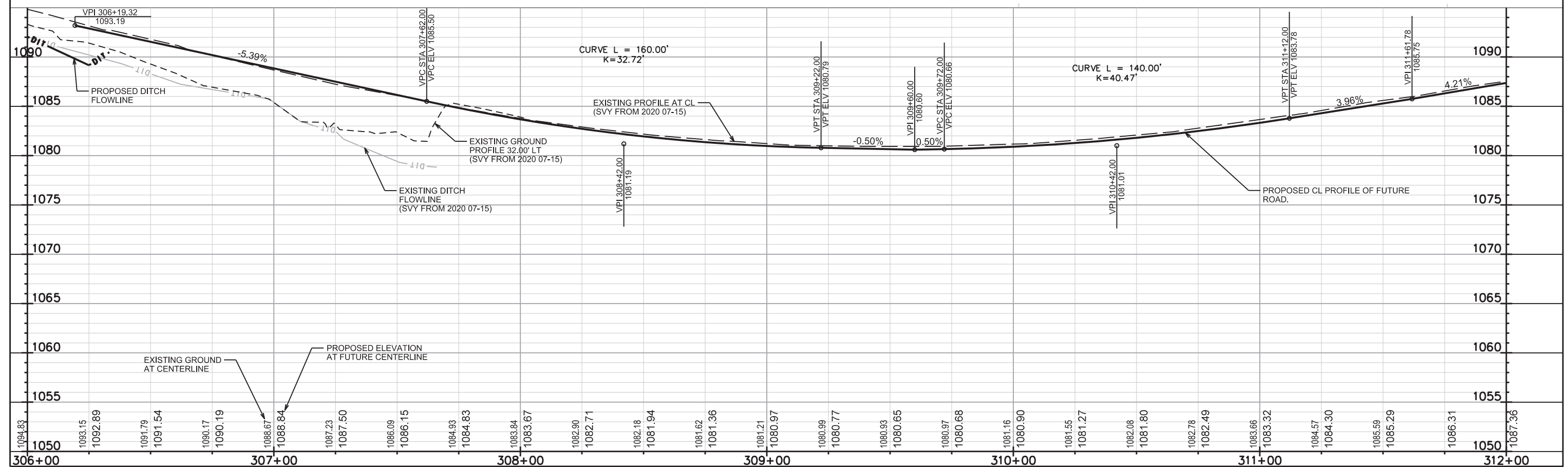
WOODS RD CITY OF MADISON

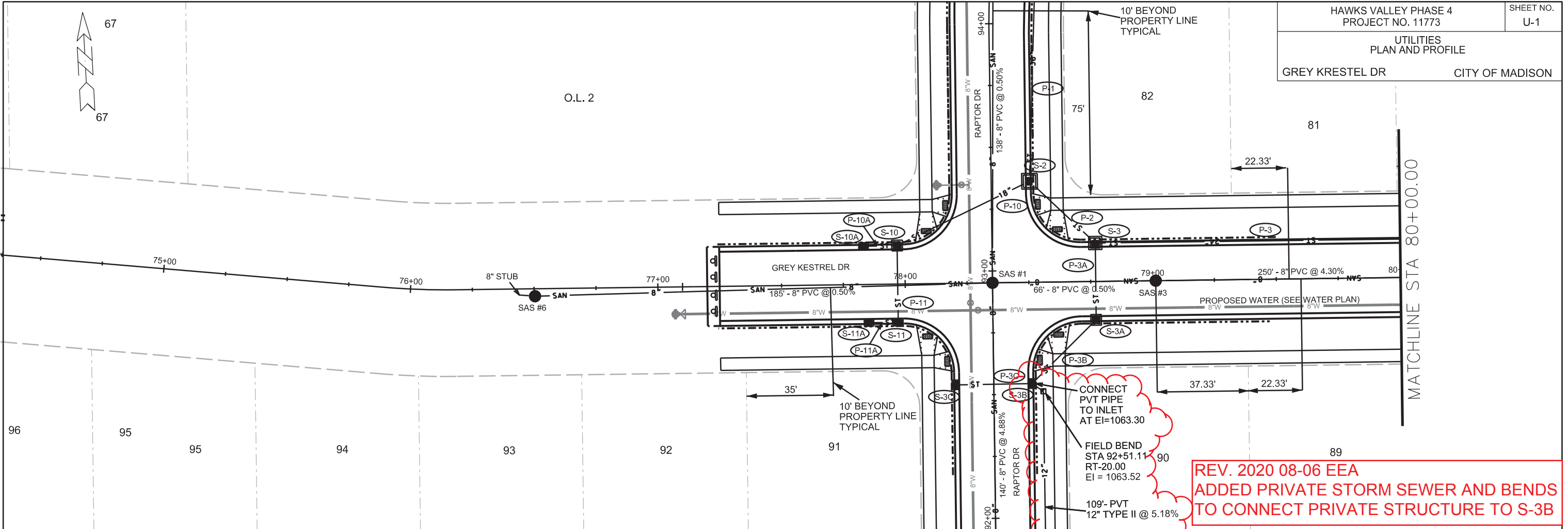
REV. 2020 08-06 JPS



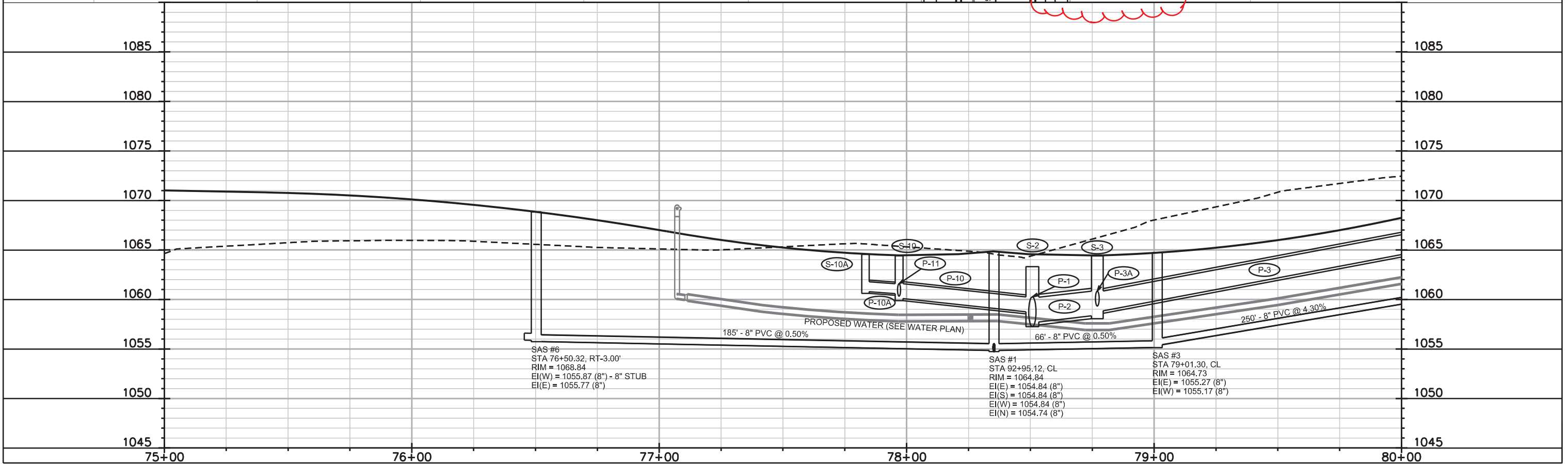
- NOTES:
- 5' CONCRETE SIDEWALK
 - INSTALL CURB CUTS FOR FUTURE RAMP - DO NOT INSTALL PED. RAMP
 - 3' GRAVEL SHOULDER
 - SAWCUT AND REMOVE EXISTING ASPHALT AS NECESSARY FOR UTILITY INSTALLATION. REPLACE PER CITY OF MADISON PAVEMENT PATCHING CRITERIA (SEE SHEET D-1).
 - CARLSON SCREED CURB. SEE TYPICAL SECTION AND XSECTIONS
XXXXXX = SAWCUT LINE
1% → = DENOTES SURFACE DRAINAGE

REV. NOTES: EXTENDED PROJECT LIMITS, REGRADED, ADDED CARLSON SCREED CURB. BASED OFF 2020 07-15 SURVEY





REV. 2020 08-06 EEA
ADDED PRIVATE STORM SEWER AND BENDS
TO CONNECT PRIVATE STRUCTURE TO S-3B



SAS #6
 STA 76+50.32, RT-3.00'
 RIM = 1068.84
 EI(W) = 1055.87 (8") - 8" STUB
 EI(E) = 1055.77 (8")

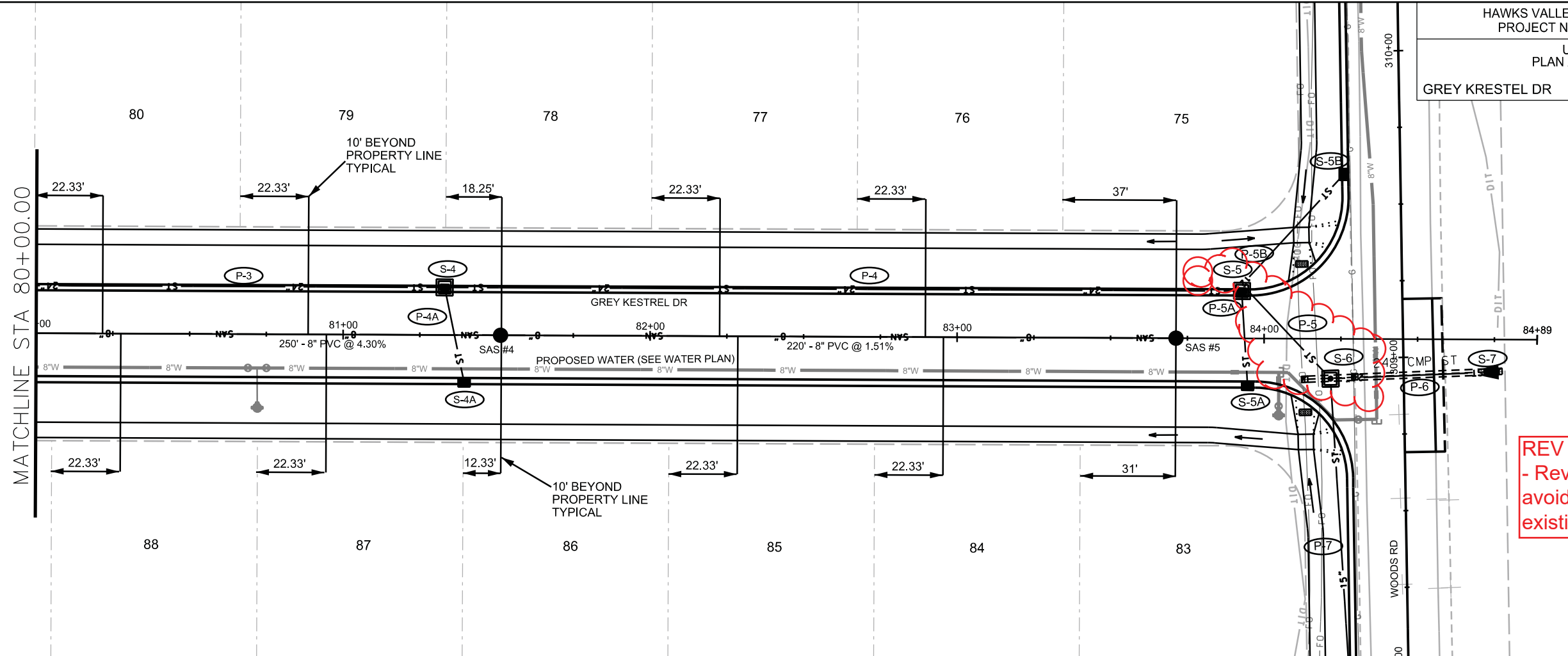
SAS #1
 STA 92+95.12, CL
 RIM = 1064.84
 EI(E) = 1054.84 (8")
 EI(S) = 1054.84 (8")
 EI(W) = 1054.84 (8")
 EI(N) = 1054.74 (8")

SAS #3
 STA 79+01.30, CL
 RIM = 1064.73
 EI(E) = 1055.27 (8")
 EI(W) = 1055.17 (8")

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

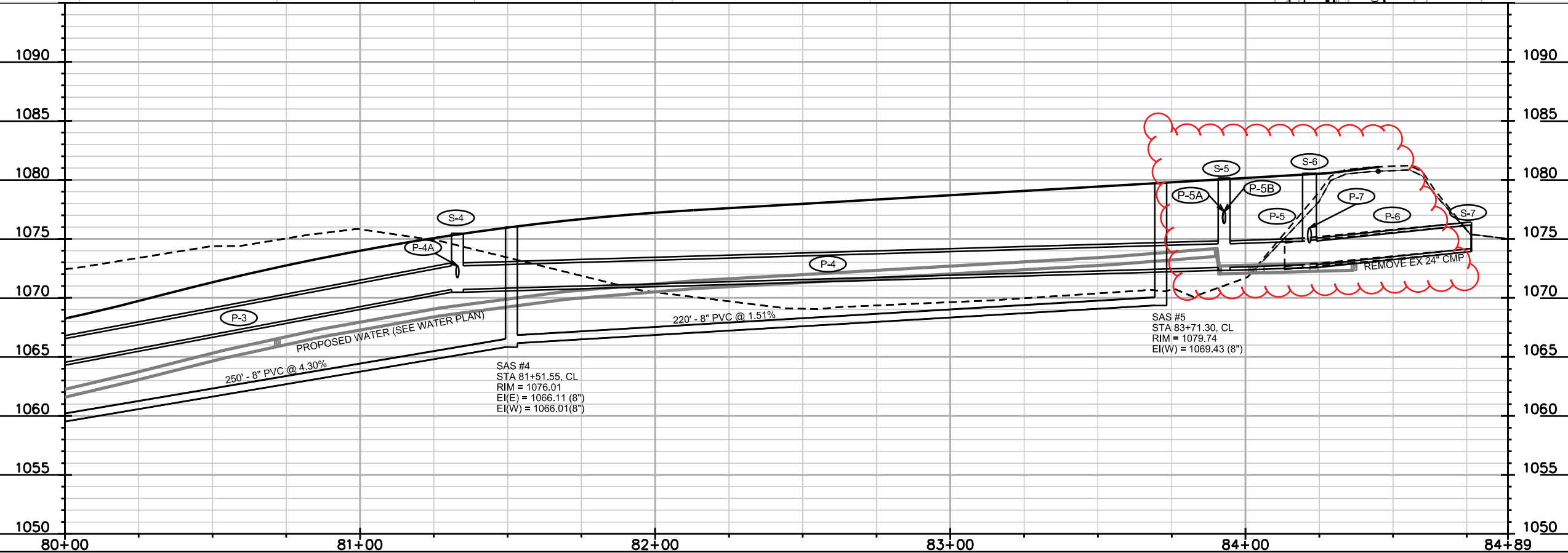
UTILITIES
PLAN AND PROFILE

GREY KESTREL DR CITY OF MADISON



UNPLATTED
LANDS

REV 10/18/19 EEA
- Revised S-5 & S-6 to
avoid conflict with
existing gas main.



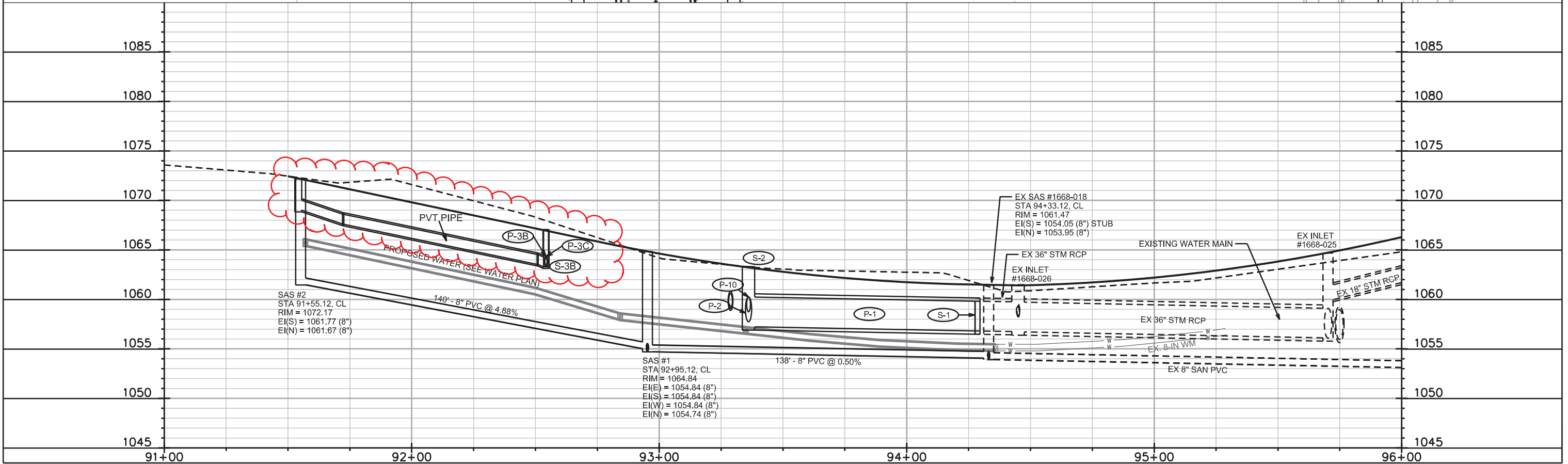
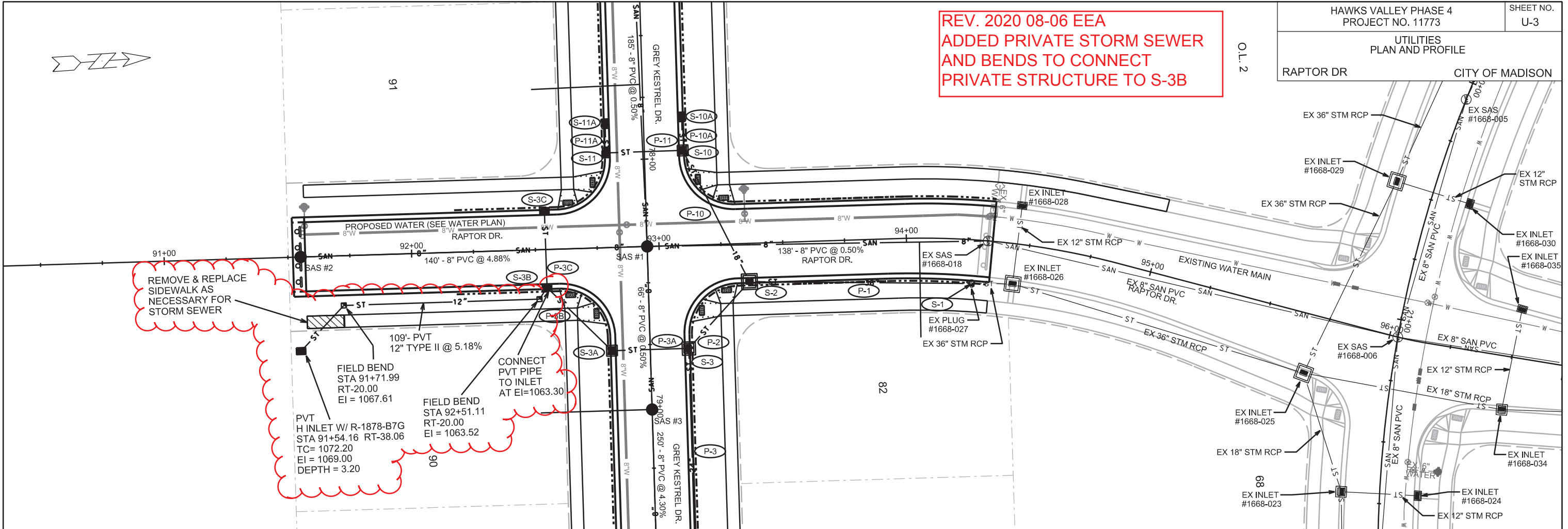
SAS #4
STA 81+51.55, CL
RIM = 1076.01
EI(E) = 1066.11 (8")
EI(W) = 1066.01(8")

SAS #5
STA 83+71.30, CL
RIM = 1079.74
EI(W) = 1069.43 (8")

REMOVE EX 24" CMP

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

**REV. 2020 08-06 EEA
ADDED PRIVATE STORM SEWER
AND BENDS TO CONNECT
PRIVATE STRUCTURE TO S-3B**



PLOT SCALE: _____

PLOT NAME: _____

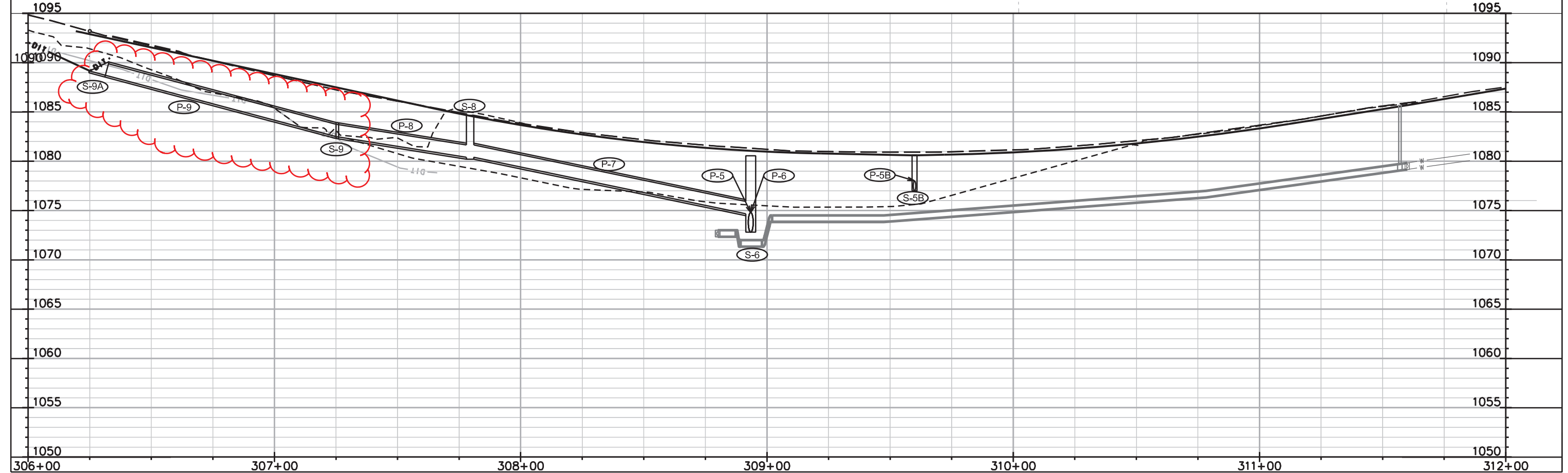
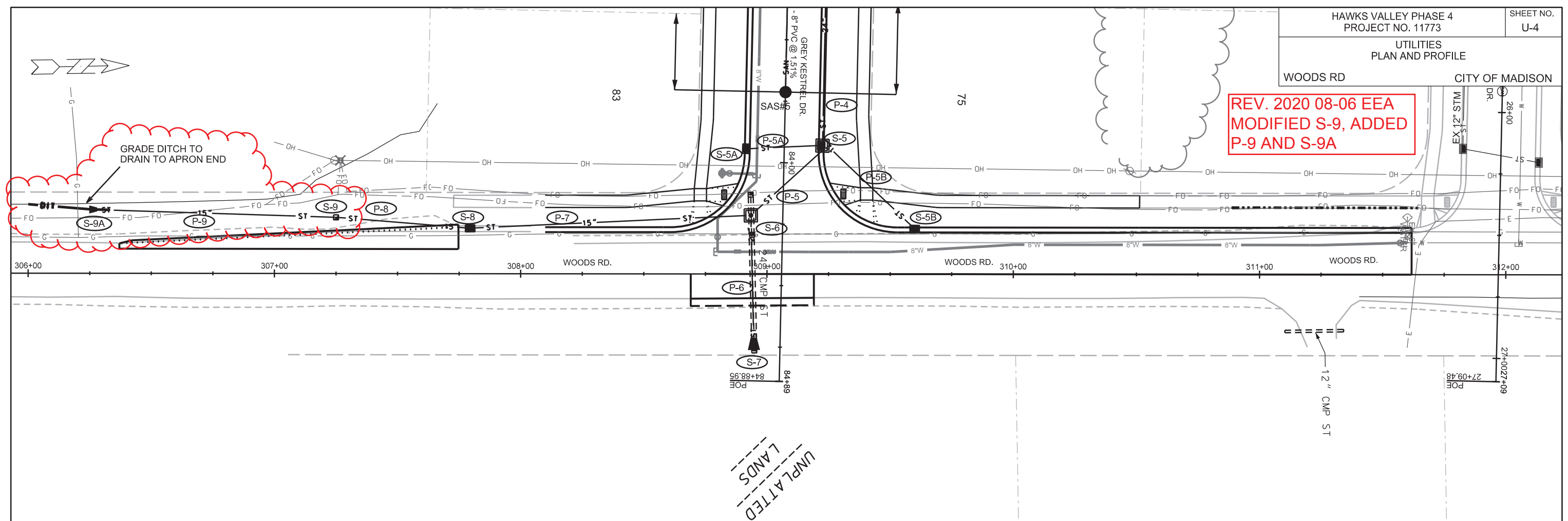
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES
PLAN AND PROFILE

WOODS RD CITY OF MADISON

REV. 2020 08-06 EEA
MODIFIED S-9, ADDED
P-9 AND S-9A



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

HAWKS VALLEY PHASE 4

SHEET NO.

PROJECT NO. 11773

U-5

SANITARY SEWER SCHEDULE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
RAPTOR DR						
SAS #1	92+95.22	CL	1064.84	1054.74	10.10	-
SAS #2	91+55.12	CL	1072.17	1061.67	10.50	-
GREY KESTREL DR						
SAS #3	79+01.30	CL	1064.73	1055.17	9.56	-
SAS #4	81+51.55	CL	1076.01	1066.01	10.00	-
SAS #5	83+71.30	CL	1079.74	1069.43	10.31	-
SAS #6	76+50.32	RT-3.00	1068.84	1055.77	13.07	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
RAPTOR DR								
EX SAS #1668-018	SAS #1	1054.05	1054.74	138	0.50%	8"	SDR-35	-
SAS #1	SAS #2	1054.84	1061.67	140	4.88%	8"	SDR-35	-
GREY KESTREL DR								
SAS #1	SAS #3	1054.84	1055.17	66	0.50%	8"	SDR-35	-
SAS #3	SAS #4	1055.27	1066.01	250	4.30%	8"	SDR-35	-
SAS #4	SAS #5	1066.11	1069.43	220	1.51%	8"	SDR-35	-
SAS #1	SAS #6	1054.84	1055.77	185	0.50%	8"	SDR-35	-

STORM SEWER SCHEDULE

* REVISED 10/18/19 EEA
 ++ REVISED 8/5/20 EEA

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
RAPTOR DR							
S-1	94+27.61	RT-17.68	COLLAR	-	1056.81	-	-
S-2	93+36.22	RT-15.50	5X5 SAS	1063.31	1057.25	6.06	W/ R-3067-7004-V
S-3B	92+54.22	RT-15.50	H INLET	1067.04	1063.30	3.74	W/ R-3067-7004-V
S-3C	92+54.22	LT-15.50	H INLET	1067.04	1063.59	3.45	W/ R-3067-7004-V
GREY KESTREL DR							
S-3	78+77.05	LT-15.50	4X4 SAS	1064.39	1058.33	6.06	LP; W/ R-3067-7004-VB
S-3A	78+77.00	RT-15.50	3X3 SAS	1065.23	1060.08	5.15	LP; W/ R-3067-7004-VB
S-4	81+33.00	LT-15.50	4X4 SAS	1075.47	1070.72	4.75	W/ R-3067-7004-V
S-4A	81+39.48	RT-15.50	H INLET	1075.70	1072.35	3.35	W/ R-3067-7004-V
* S-5	83.+92.74	LT-15.50	4X4 SAS	1080.15	1072.58	7.57	W/ R-3067-7004-V
S-5A	83+94.68	RT-15.50	H INLET	1080.32	1076.59	3.73	W/ R-3067-7004-V
S-10	77+96.94	LT-15.50	3X3 SAS	1064.41	1060.08	4.34	LP; W/ R-3067-7004-VB
S-10A	77+83.34	LT-15.50	H INLET	1064.55	1060.78	3.77	W/ R-3067-7004-V
S-11	77+97.02	RT-15.50	H INLET	1065.25	1061.27	3.98	LP; W/ R-3067-7004-VB
S-11A	77+85.19	RT-15.50	H INLET	1065.37	1061.62	3.75	W/ R-3067-7004-V
WOODS RD							
S-5B	309+60.00	LT-18.50	H INLET	1080.64	1077.00	3.64	LP; W/ R-3067-7004-VB
* S-6	308+93.42	LT-23.84	4X4 SAS	1080.56	1072.80	7.76	W/ R-1550
S-7	308+94.75	RT-30.92	24" RCP AE	-	1074.17	-	W/ GATE
S-8	307+79.44	LT-18.50	H INLET	1084.65	1080.40	4.25	W/ R-3067-7004-V
++ S-9	307+25.00	LT-22.87	CONCRETE COLLAR	-	1082.50	-	(1)
++ S-9A	306+25.00	LT-26.00	15" RCP AE	-	1089.16	-	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
RAPTOR DR										
P-1	S-1	S-2	1056.81	1057.25	90	87	0.51%	36"	TYPE I	-
P-3C	S-3B	S-3C	1063.30	1063.59	31	29	1.00%	12"	TYPE I	-
GREY KESTREL DR										
P-2	S-2	S-3	1057.75	1058.33	36	30	1.93%	30"	TYPE I	-
P-3	S-3	S-4	1058.83	1070.72	256	252	4.72%	24"	TYPE I	-
P-3A	S-3	S-3A	1059.33	1060.08	31	28	2.68%	18"	TYPE I	-
P-3B	S-3A	S-3B	1060.58	1063.30	37	33	8.25%	12"	TYPE I	-
* P-4	S-4	S-5	1070.72	1072.58	258	256	0.73%	24"	TYPE I	-
P-4A	S-4	S-4A	1071.72	1072.35	32	28	2.25%	12"	TYPE I	-
* P-5	S-5	S-6	1072.58	1072.80	39	37	0.59%	24"	TYPE I	-
P-5A	S-5	S-5A	1076.45	1076.59	29	28	0.50%	12"	TYPE I	-
P-10	S-2	S-10	1058.75	1060.08	60	55	2.41%	18"	TYPE I	-
P-10A	S-10	S-10A	1060.58	1060.78	14	11	1.82%	12"	TYPE I	-
P-11	S-10	S-11	1060.33	1061.27	31	29	3.24%	15"	TYPE I	-
P-11A	S-11	S-11A	1061.52	1061.62	12	9	1.11%	12"	TYPE I	-
WOODS RD										
P-5B	S-5	S-5B	1076.45	1077.00	49	47	1.17%	12"	TYPE I	-
* P-6	S-6	S-7	1072.80	1074.17	55	53	2.58%	24"	TYPE I	-
P-7	S-6	S-8	1074.67	1080.40	114	111	5.16%	15"	TYPE I	-
P-8	S-8	S-9	1080.40	1082.50	55	53	3.96%	15"	TYPE I	-
++ P-9	S-9	S-9A	1082.50	1089.16	100	99	6.73%	15"	TYPE I	-

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

SPECIFIC NOTES

++ (1) REMOVE EX APRON END

WATER PLAN AND PROFILE

GREY KESTREL DR. CITY OF MADISON

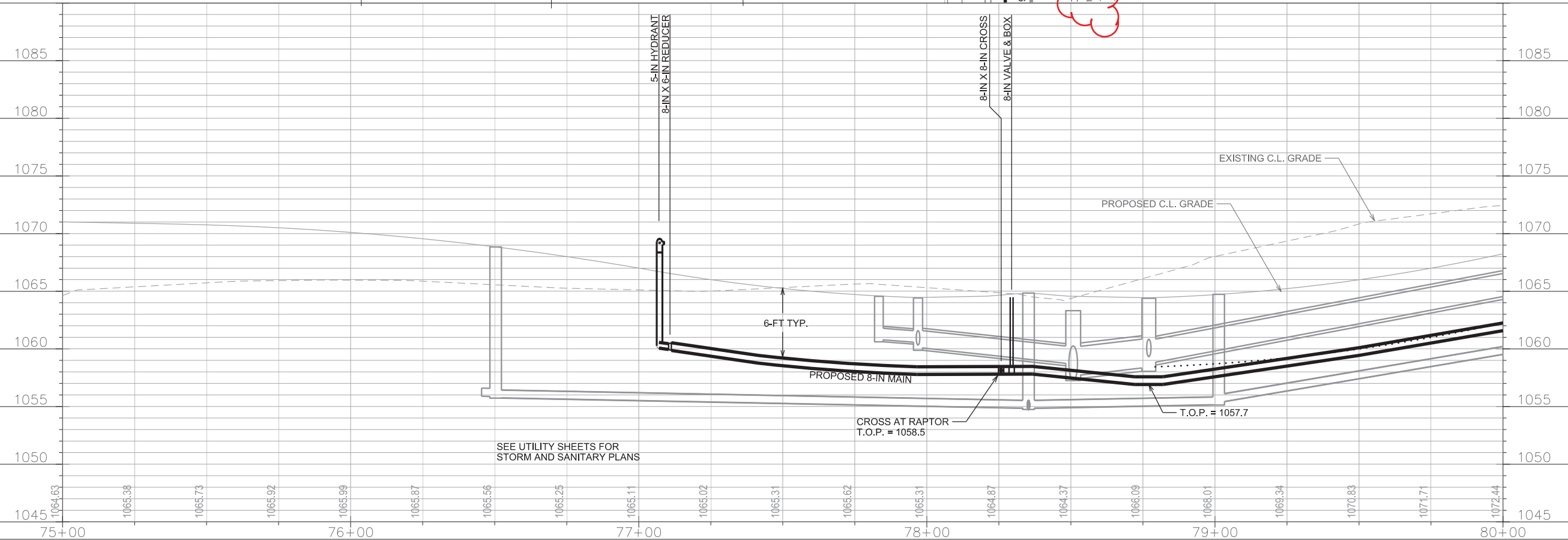
**REV 2020 08-06 KBM
REPLOTTED DUE TO
STORM SEWER
CHANGES**

O.L. 2

MATCHLINE STA 75+00.00

MATCHLINE STA 80+00.00

95 94 93 92 91 90 89



PLOT SCALE: _____

PLOT NAME: _____

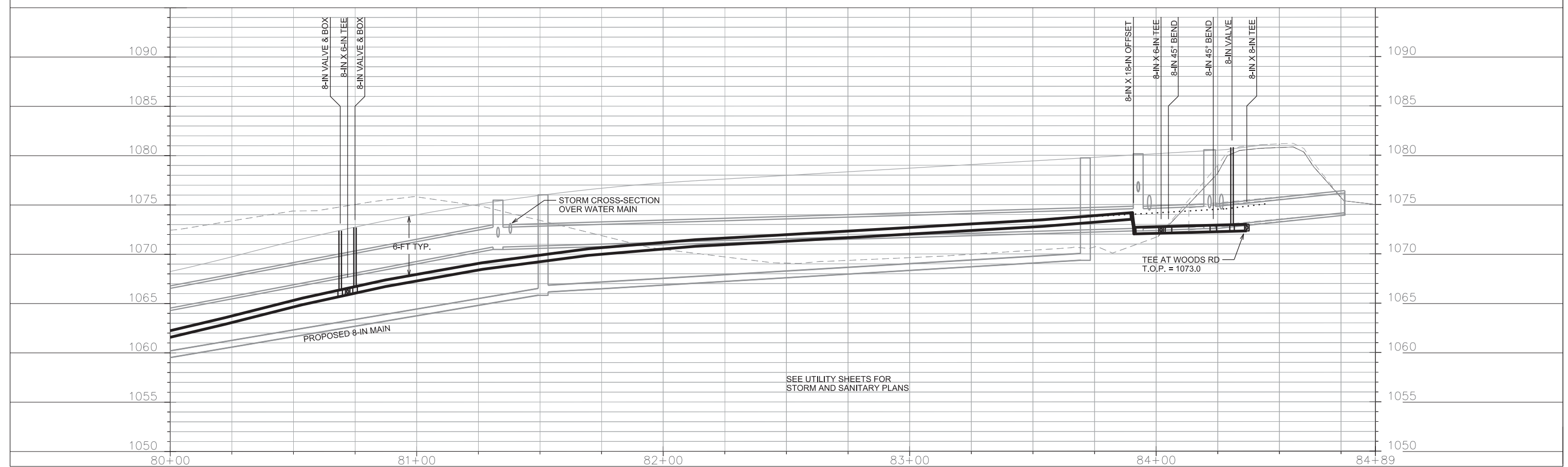
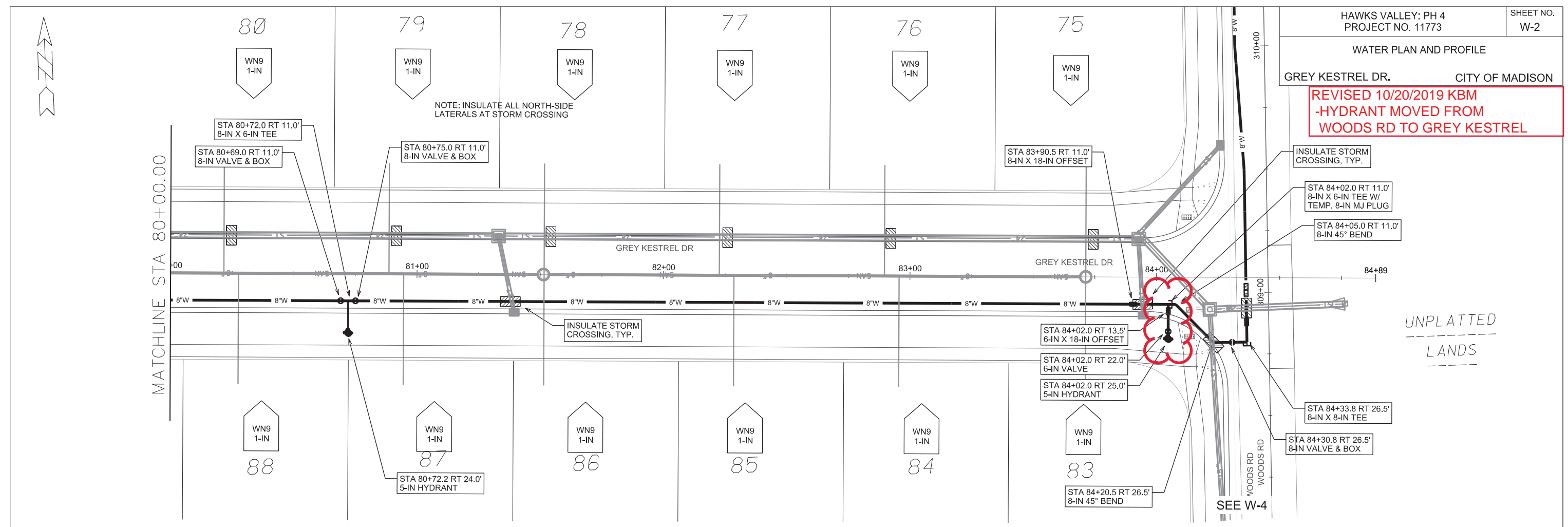
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

GREY KESTREL DR. CITY OF MADISON

**REVISED 10/20/2019 KBM
-HYDRANT MOVED FROM
WOODS RD TO GREY KESTREL**



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

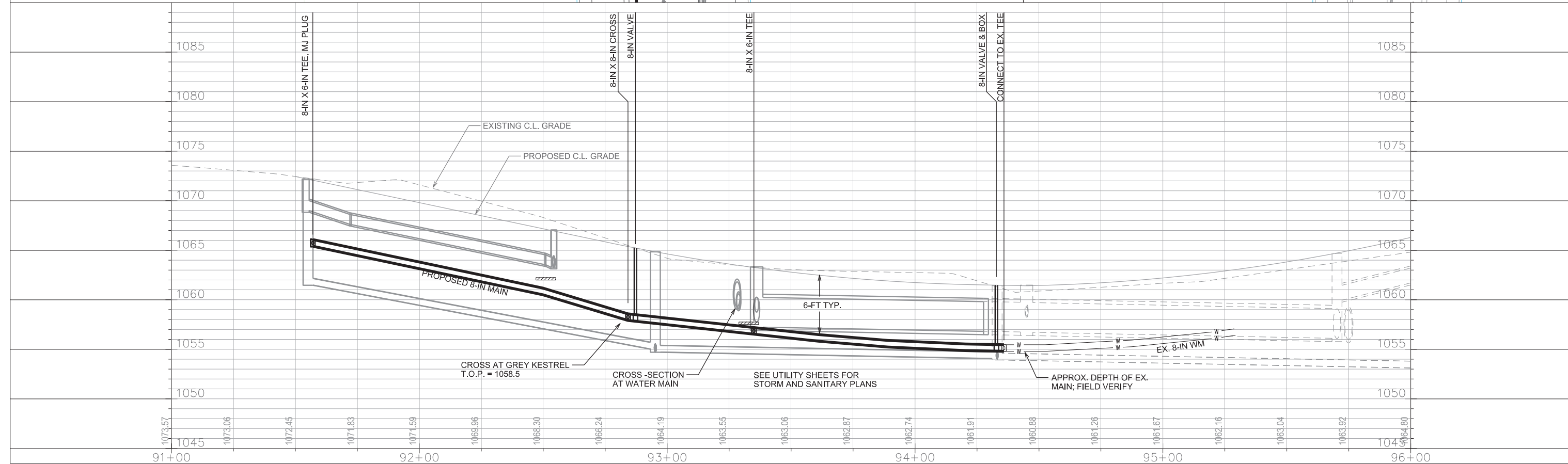
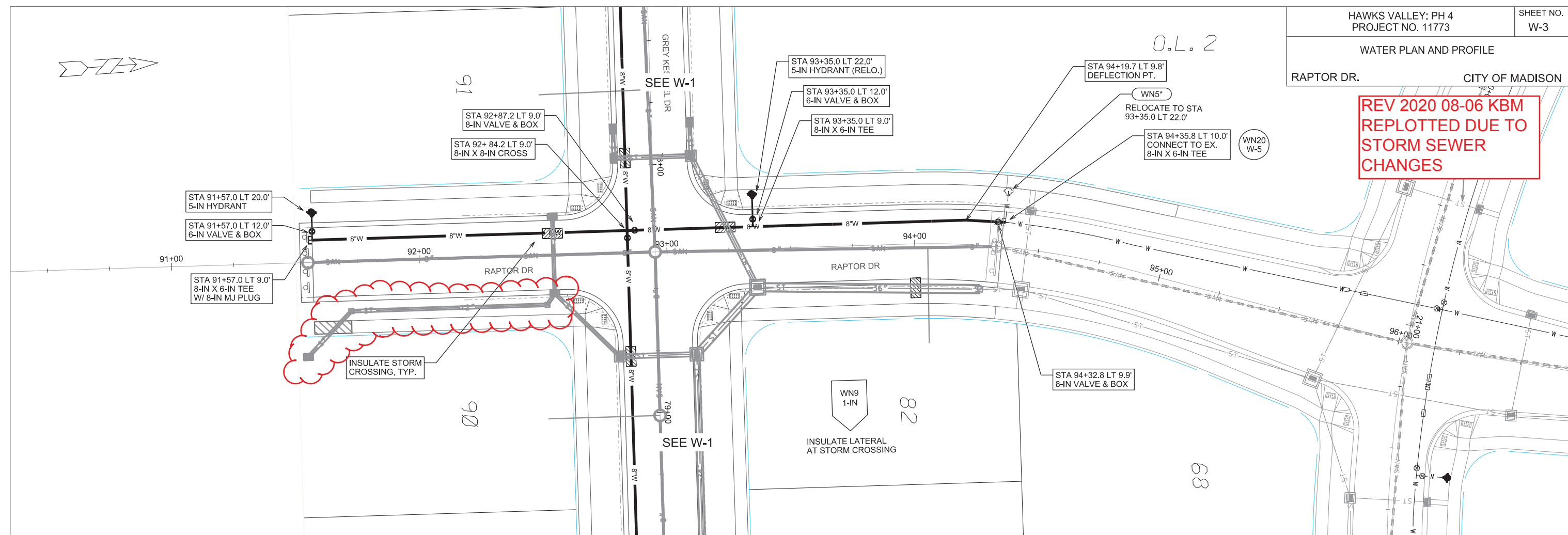
WATER PLAN AND PROFILE

RAPTOR DR.

CITY OF MADISON

REV 2020 08-06 KBM
REPLOTED DUE TO
STORM SEWER
CHANGES

O.L. 2



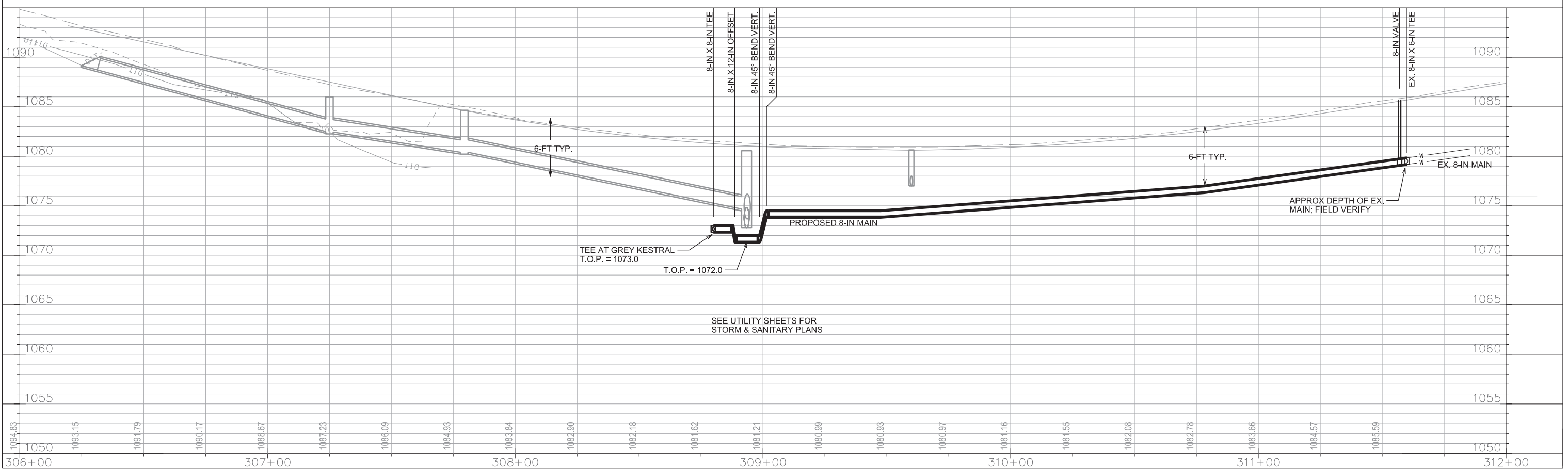
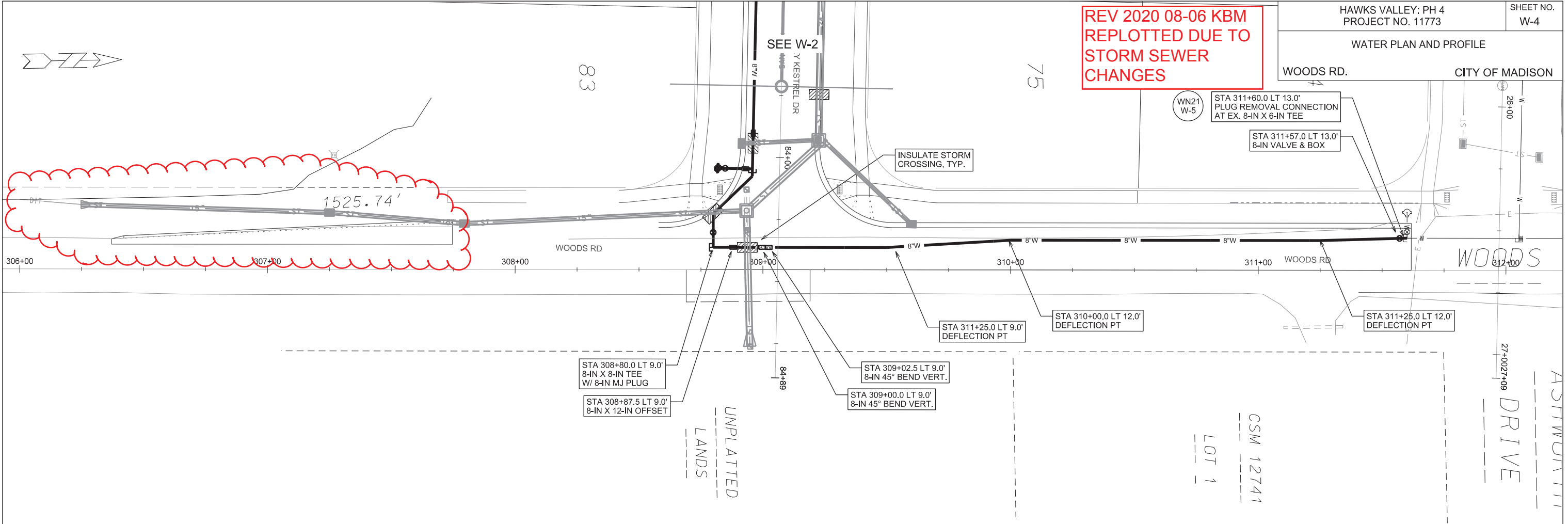
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV 2020 08-06 KBM
REPLOTTED DUE TO
STORM SEWER
CHANGES

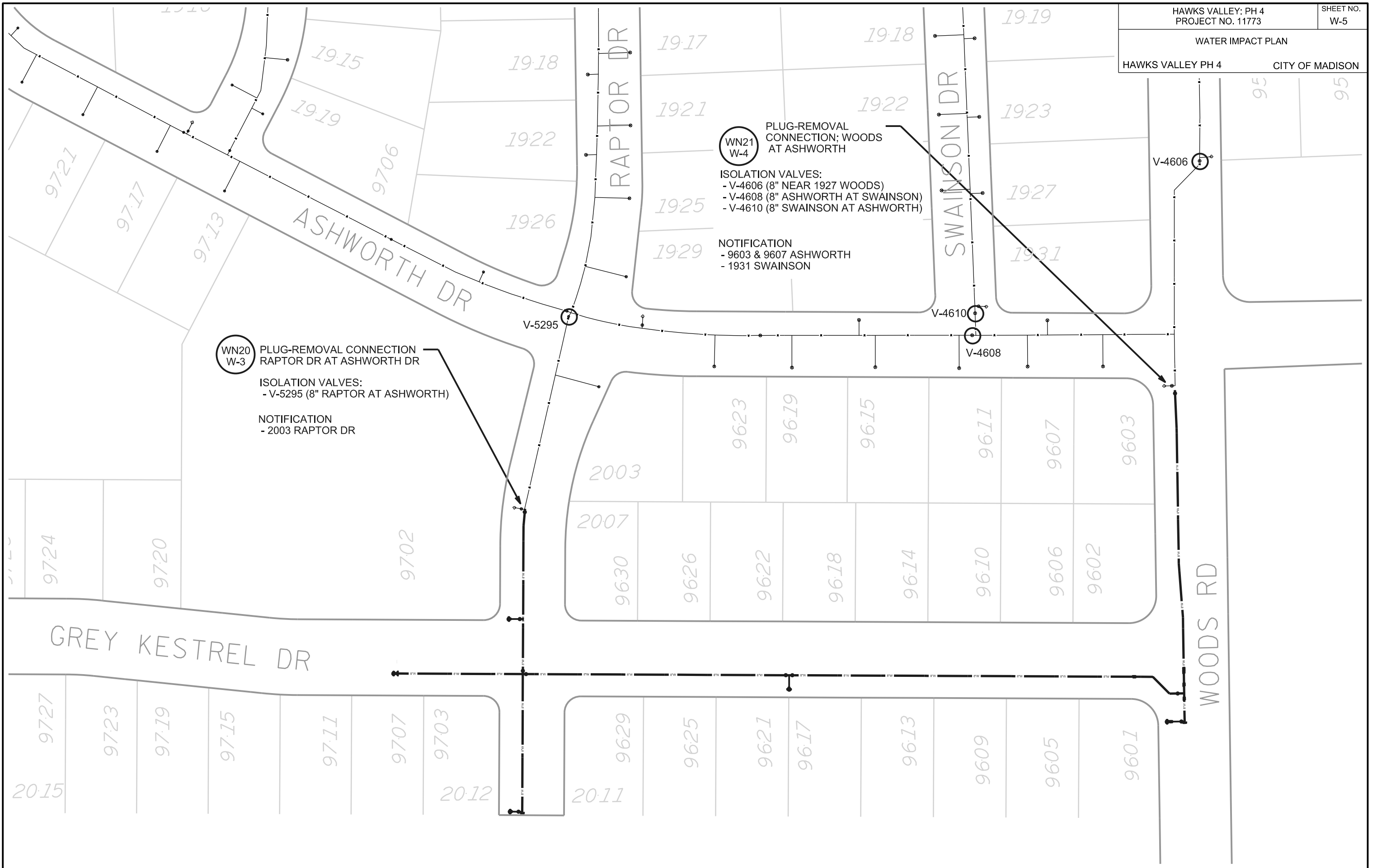


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CONSTRUCTION NOTES:

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.*

65-FT - 6-IN PIPE	1 - 6-IN X 18-IN OFFSET
1345-FT - 8-IN PIPE	1 - 8-IN X 12-IN OFFSET
	2 - 8-IN X 18-IN OFFSET
3 - 6-IN VALVE & BOX	
7 - 8-IN VALVE & BOX	2 - 8-IN MJ PLUG
4 - 8-IN X 6-IN TEE	4 - 5-IN HYDRANT
1 - 8-IN X 8-IN TEE	144-FT - 2-IN STYROFOAM INSULATION
1 - 8-IN X 8-IN CROSS	1620-FT - POLY WRAP
1 - 8-IN X 6-IN REDUCER	1-IN TO 2-IN COPPER (AS REQ'D)
4 - 8-IN 45° BEND	

MATERIALS SUPPLIED BY CITY:

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

NONE

ESTIMATE OF MATERIALS REUSED:

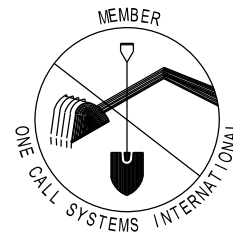
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

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.

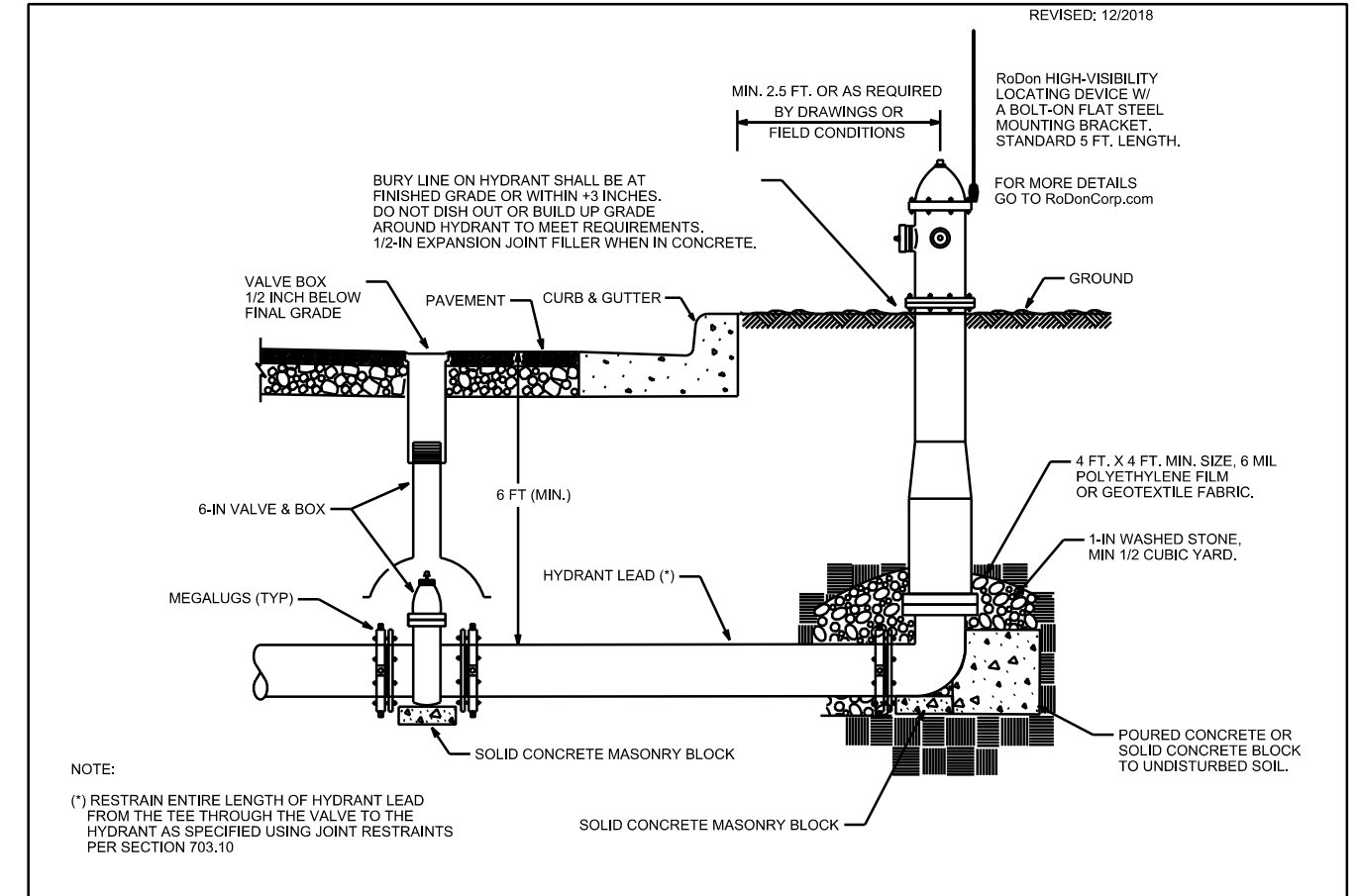


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2018



NOTE:

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

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

TYPICAL HYDRANT INSTALLATION

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

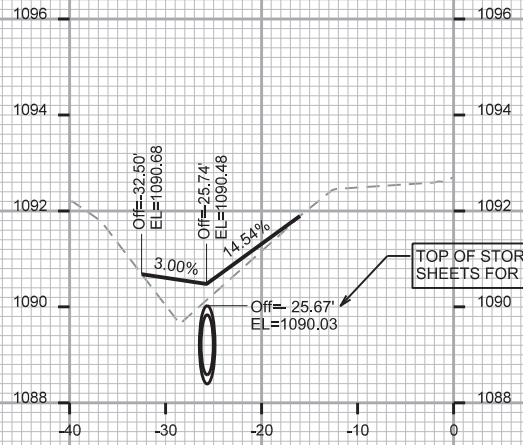
CROSS SECTIONS

WOODS RD

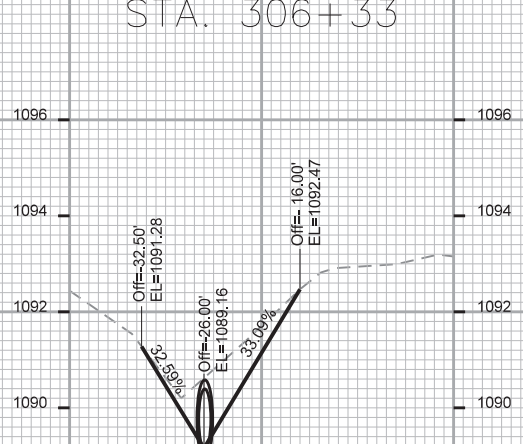
CITY OF MADISON

REV. 2020 08-06 JPS

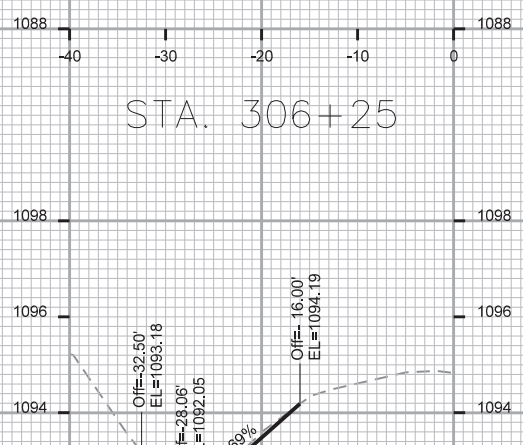
REV. NOTES: EXTENDED PROJECT LIMITS, REGRADED, ADDED CARLSON SCREED CURB. BASED OFF 2020 07-15 SURVEY



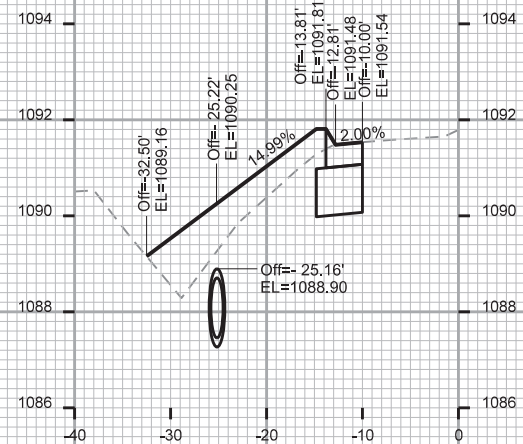
STA. 306+33



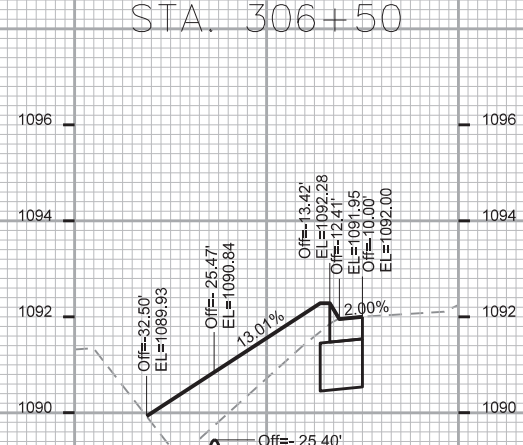
STA. 306+25



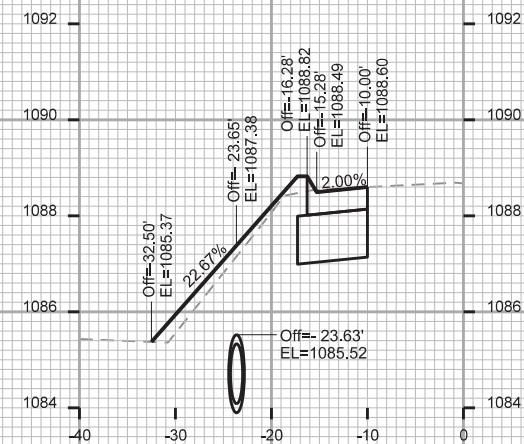
STA. 306+00



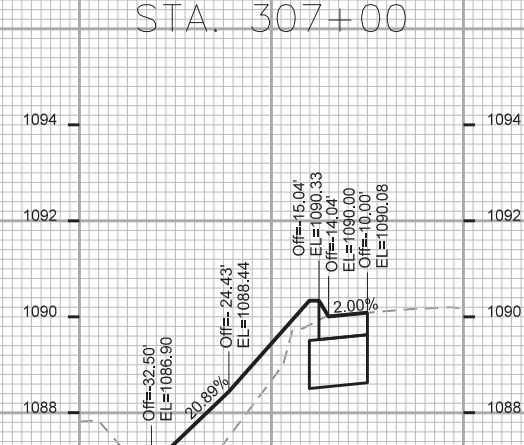
STA. 306+50



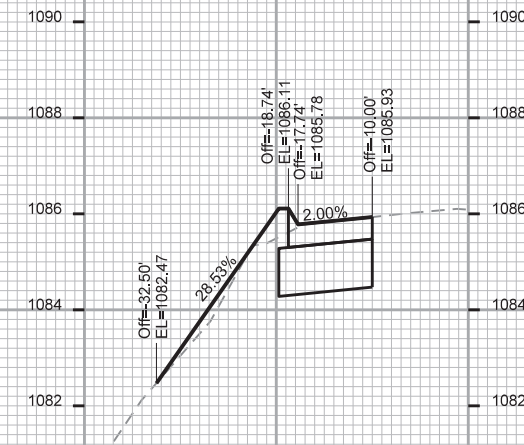
STA. 306+42



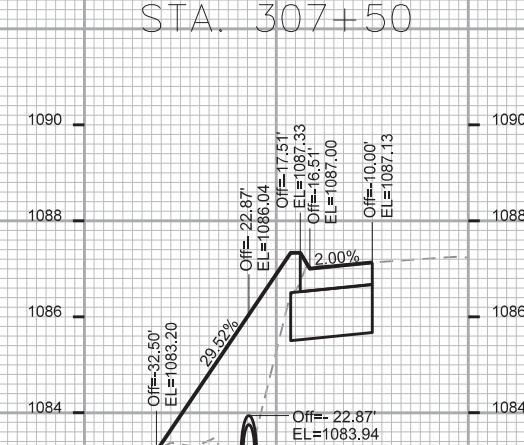
STA. 307+00



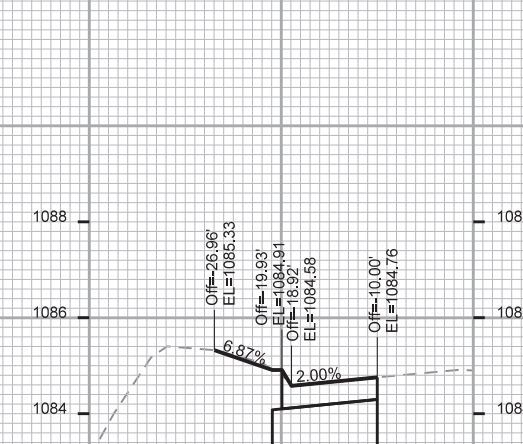
STA. 306+75



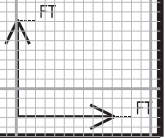
STA. 307+50



STA. 307+25



STA. 307+74



PLOT SCALE: 1" = 10'
REV. DATE: 8/6/2020

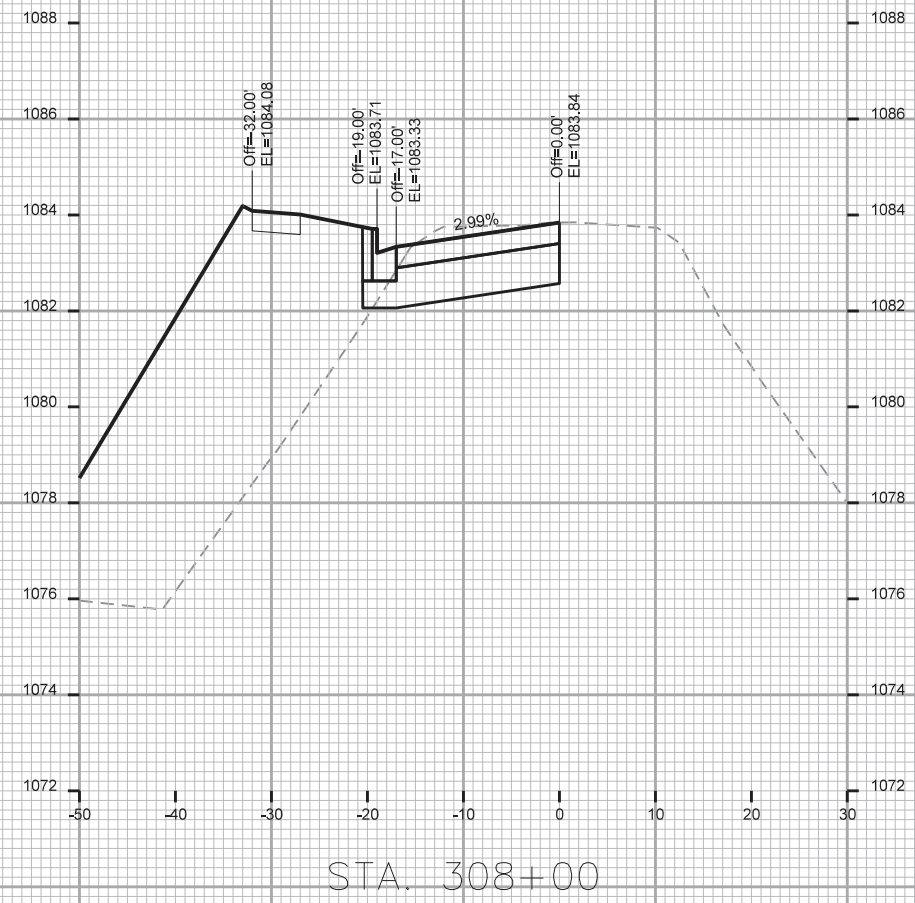
CROSS SECTIONS

WOODS RD

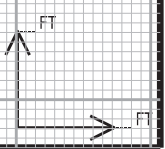
CITY OF MADISON

REV. 2020 08-06 JPS

REV. NOTES: PREVIOUSLY, SHEET X2
HAD 307+25 TO 307+75 ALSO, BUT
THOSE XSECTIONS WERE MODIFIED
AND ARE NOW INCLUDED ON X1. 308+00
HAS NOT BEEN MODIFIED.



STA. 308+00



PLOT SCALE: _____

PLOT NAME: _____

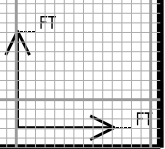
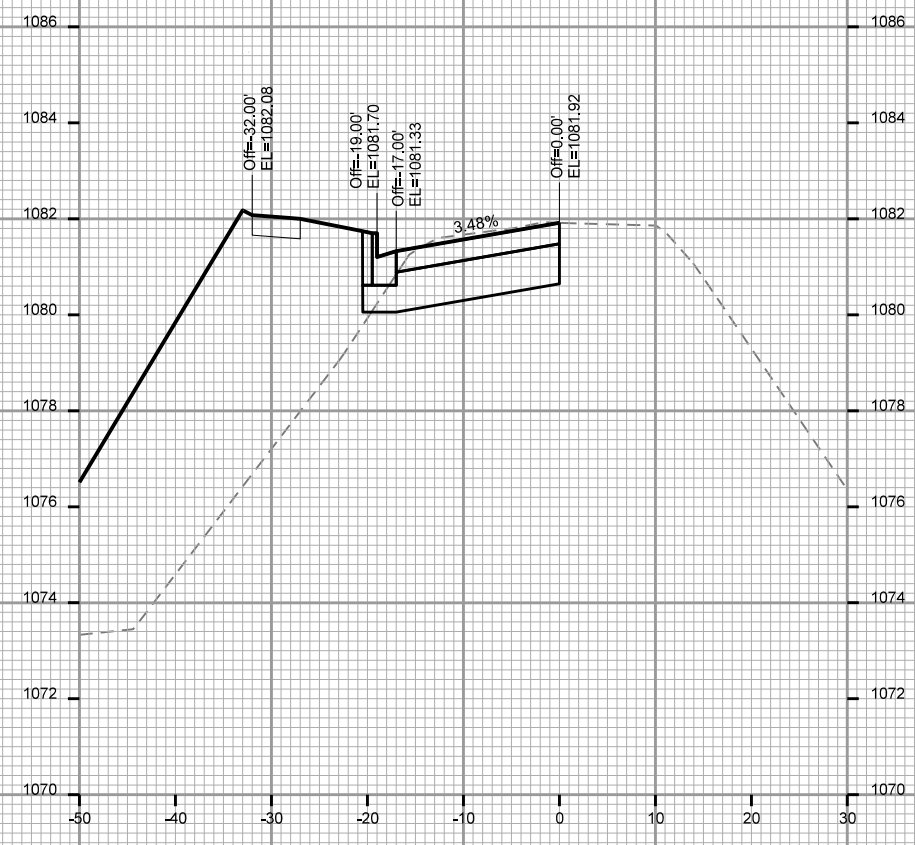
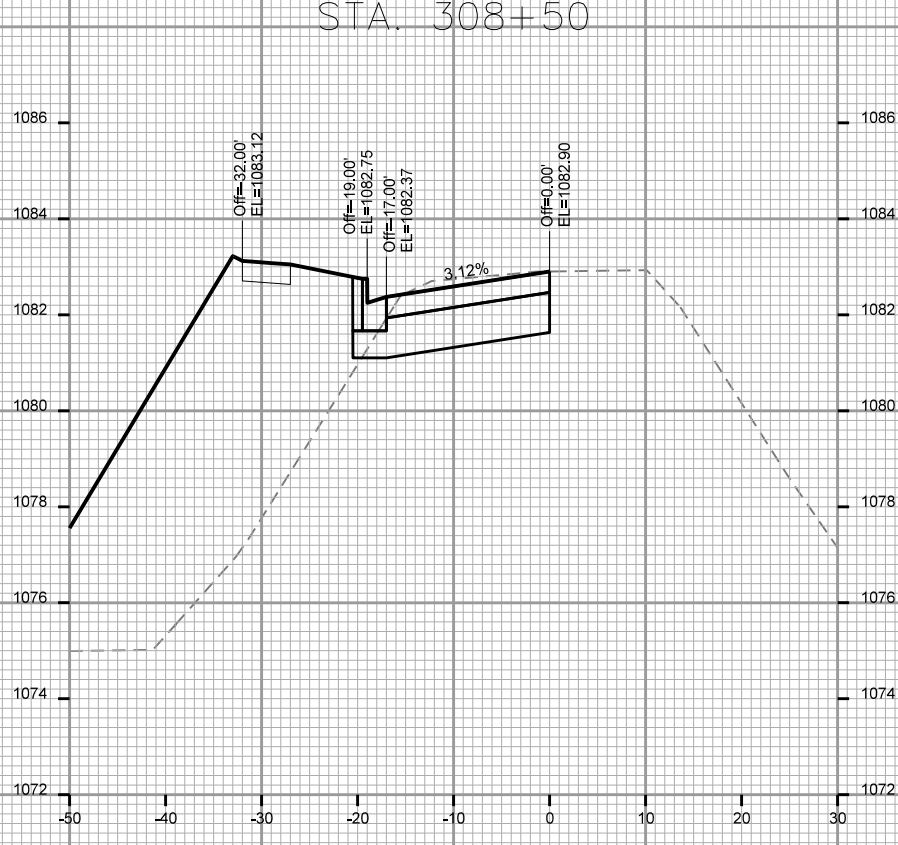
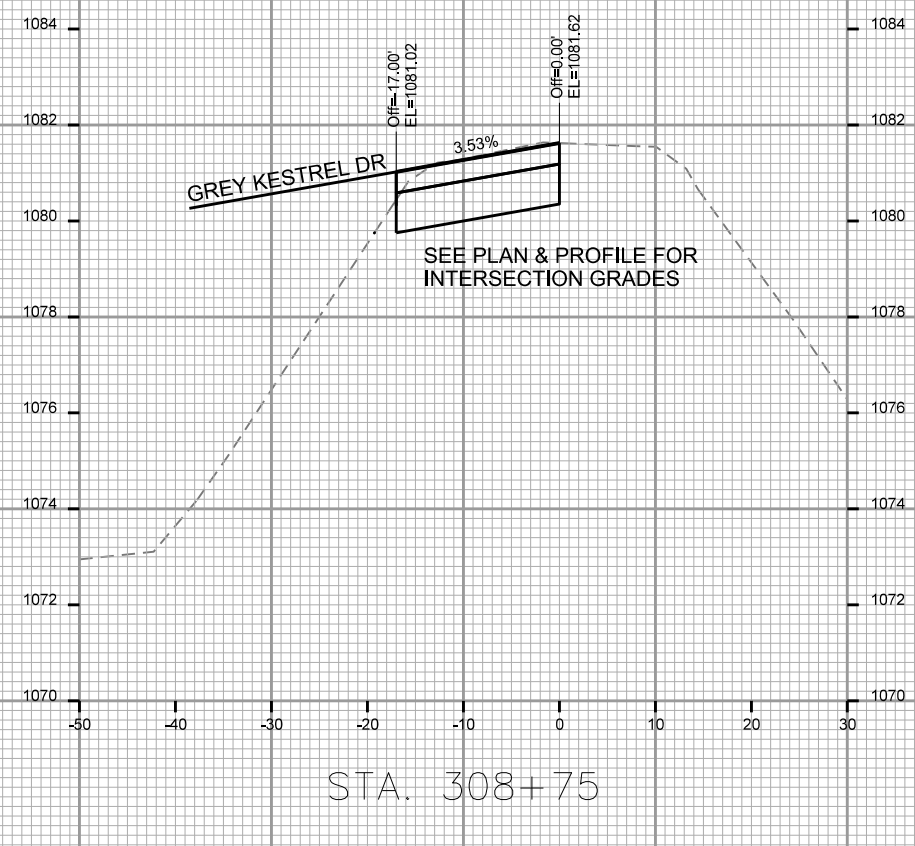
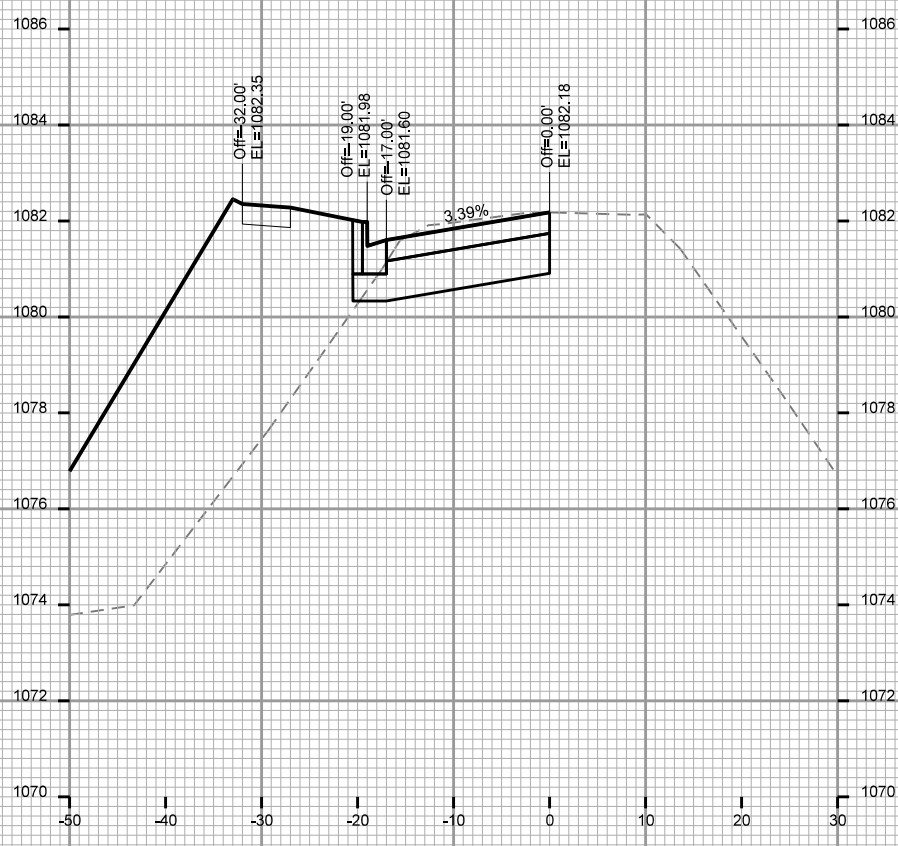
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

WOODS RD

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

WOODS RD

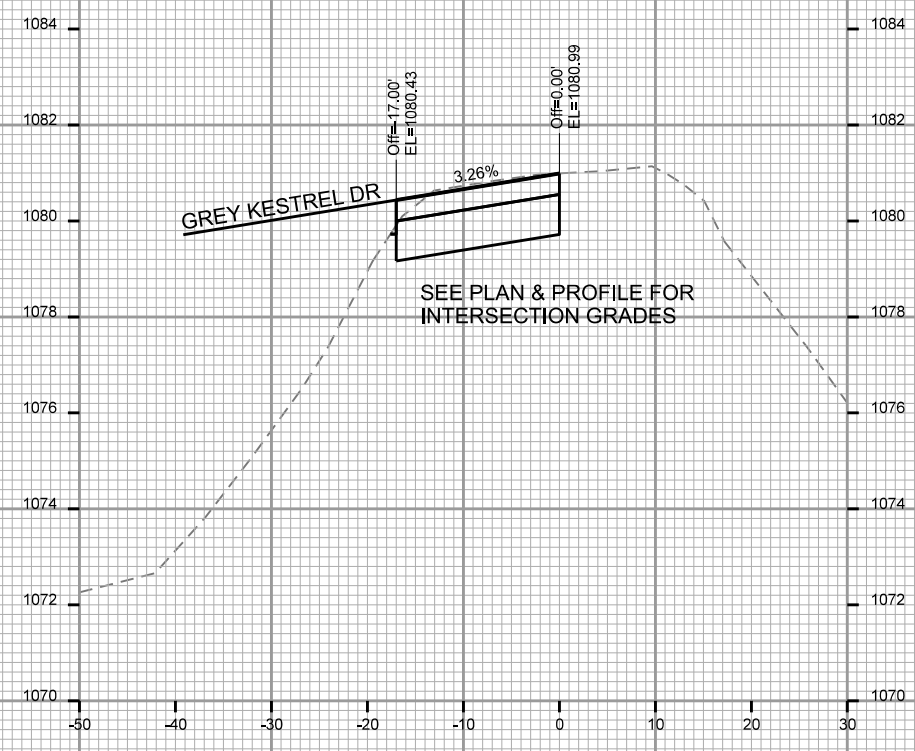
CITY OF MADISON

PLOT SCALE: _____

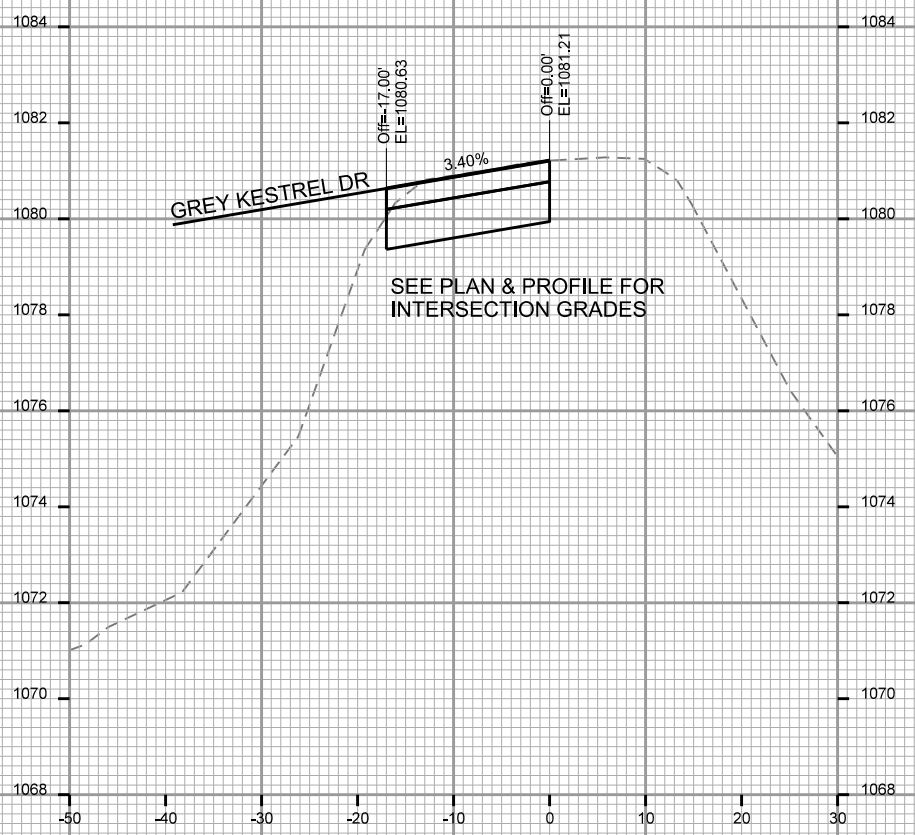
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REV. DATE: _____

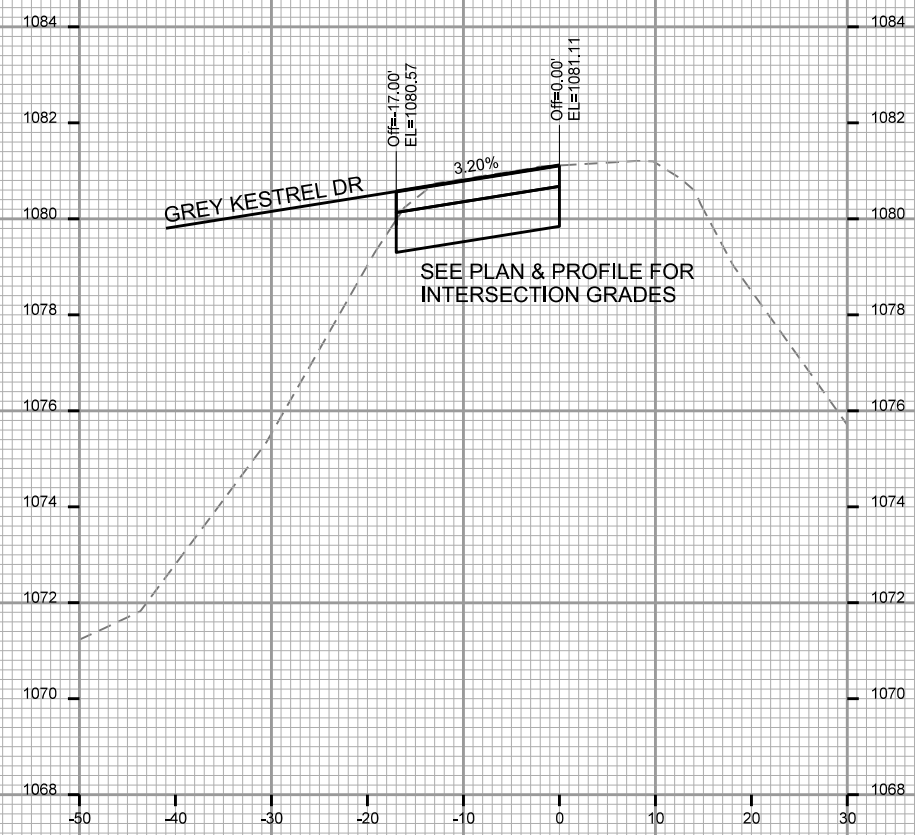
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



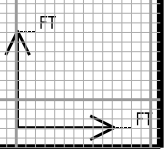
STA. 309+25



STA. 309+00



STA. 309+06



CROSS SECTIONS

WOODS RD

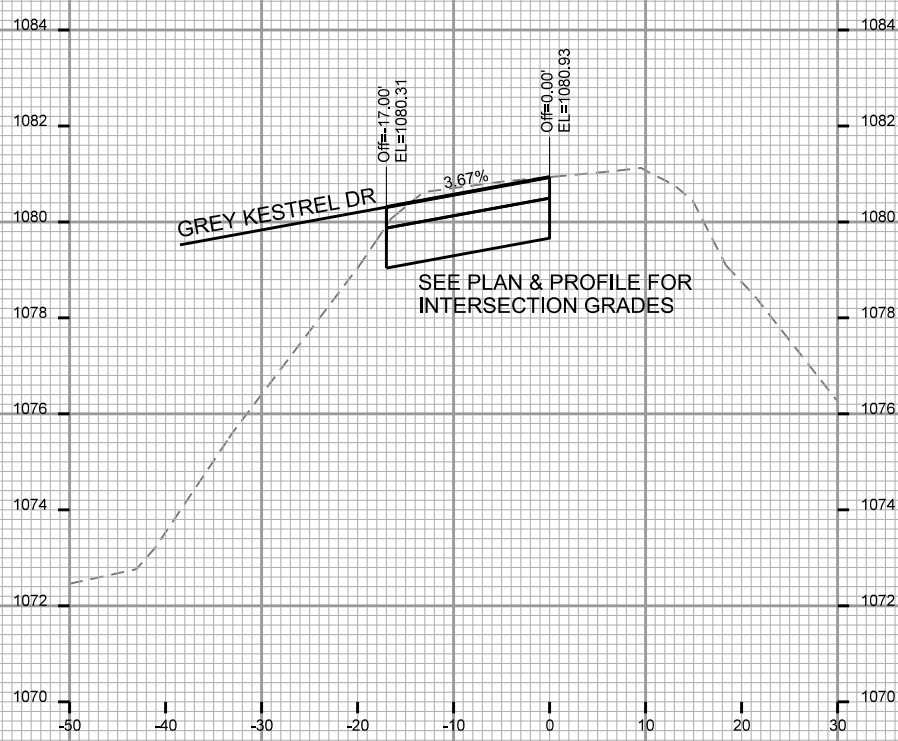
CITY OF MADISON

PLOT SCALE: _____

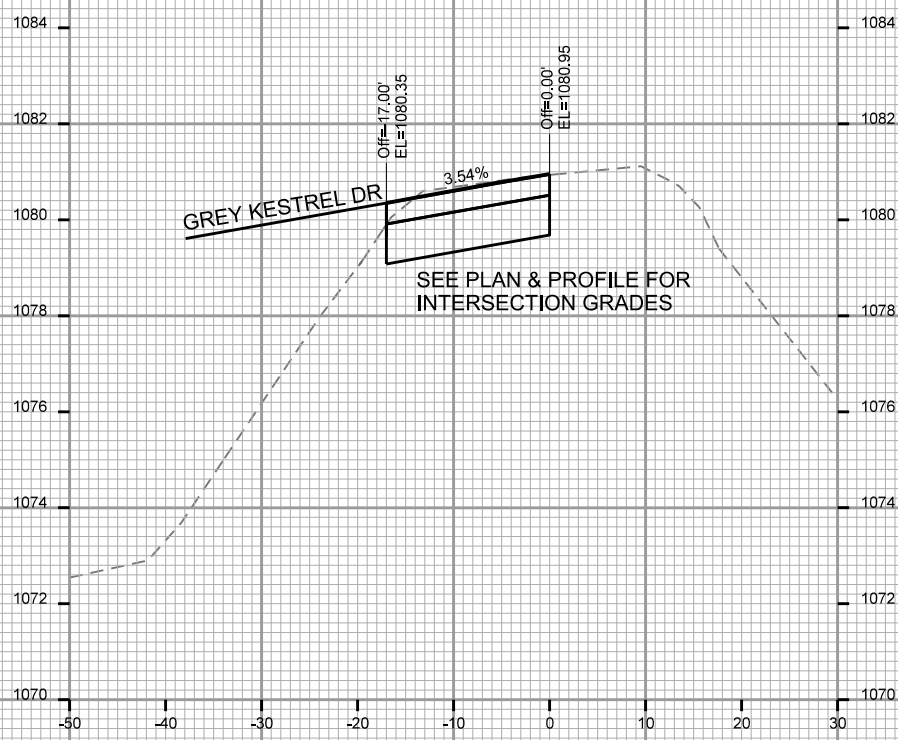
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REV. DATE: _____

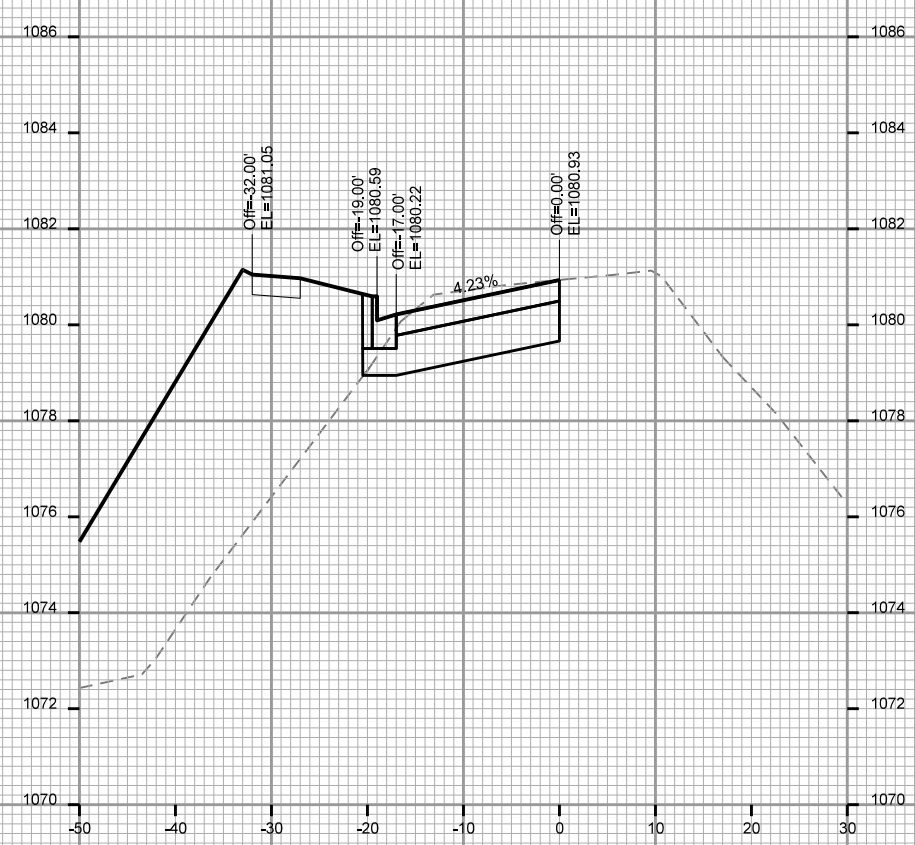
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



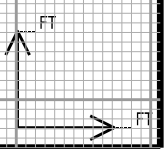
STA. 309+50



STA. 309+42



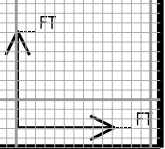
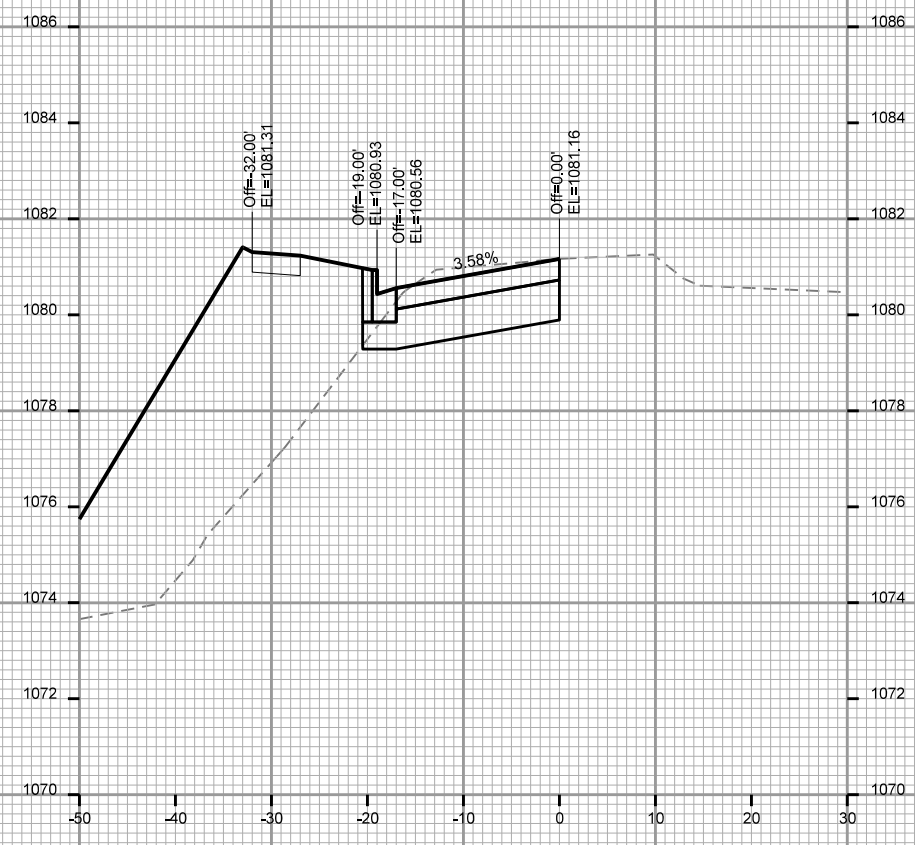
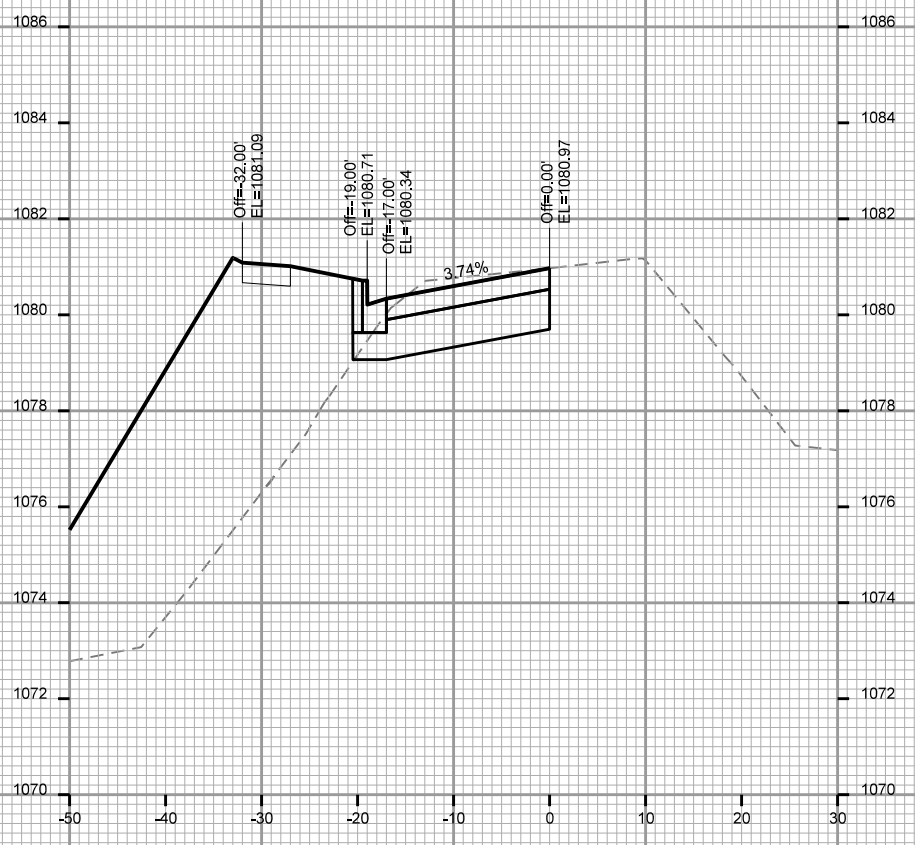
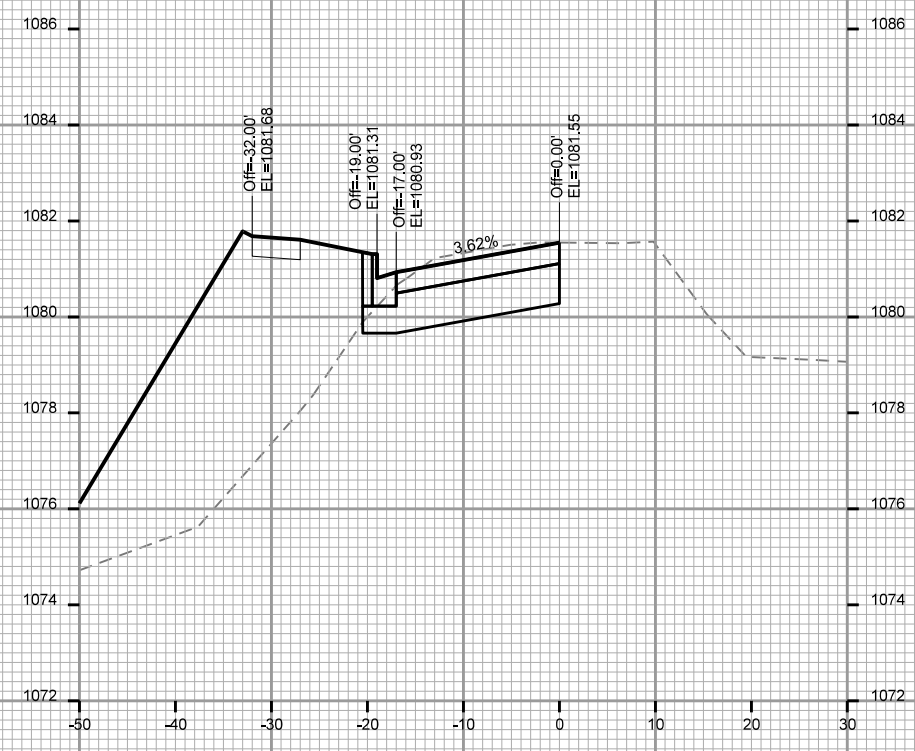
STA. 309+53



CROSS SECTIONS

WOODS RD

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

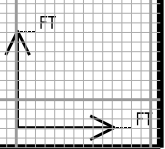
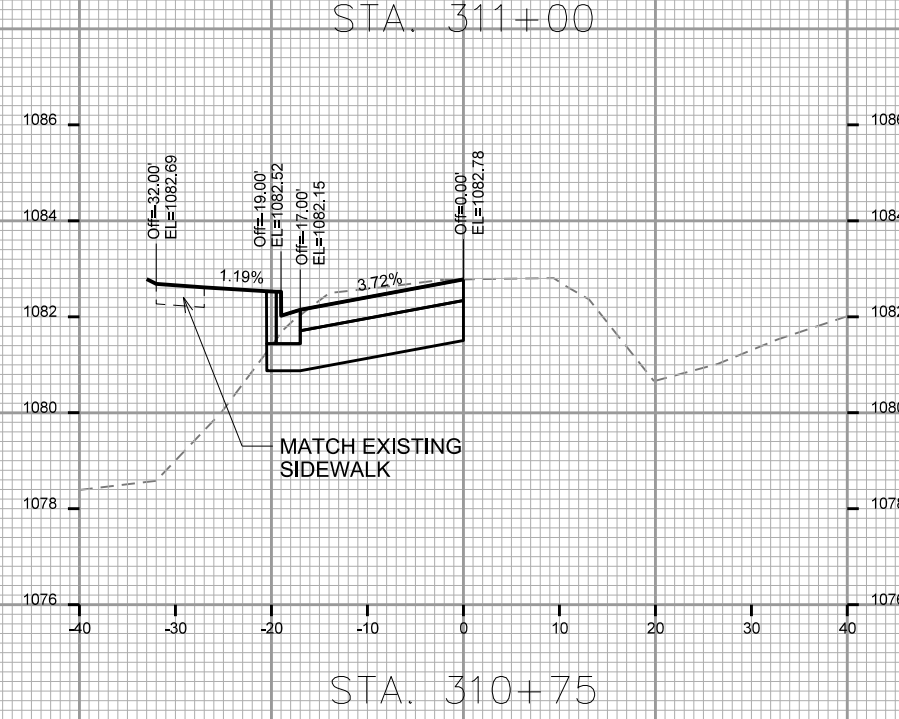
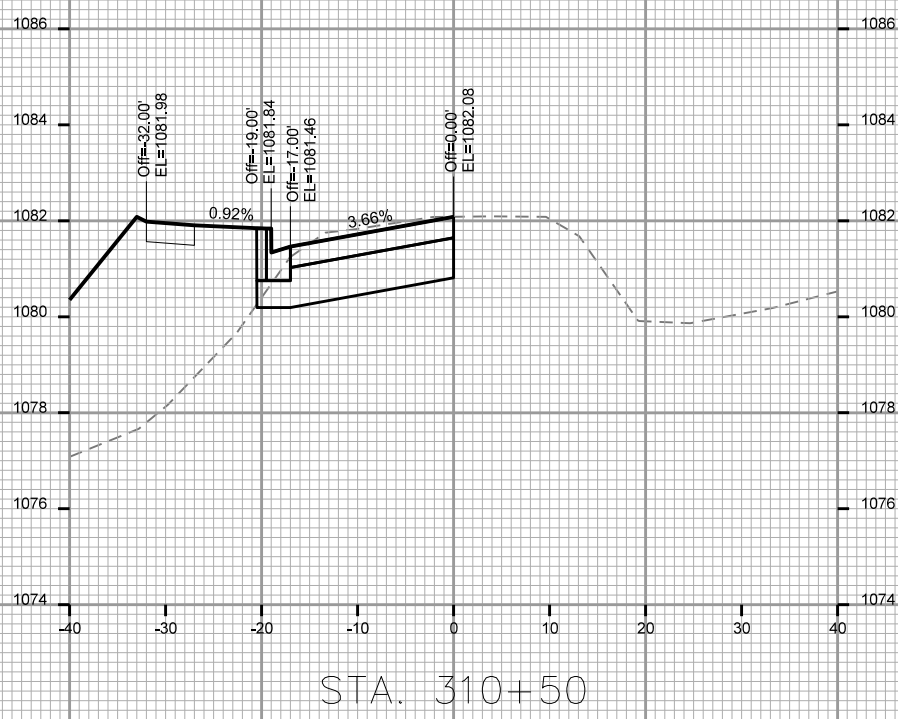
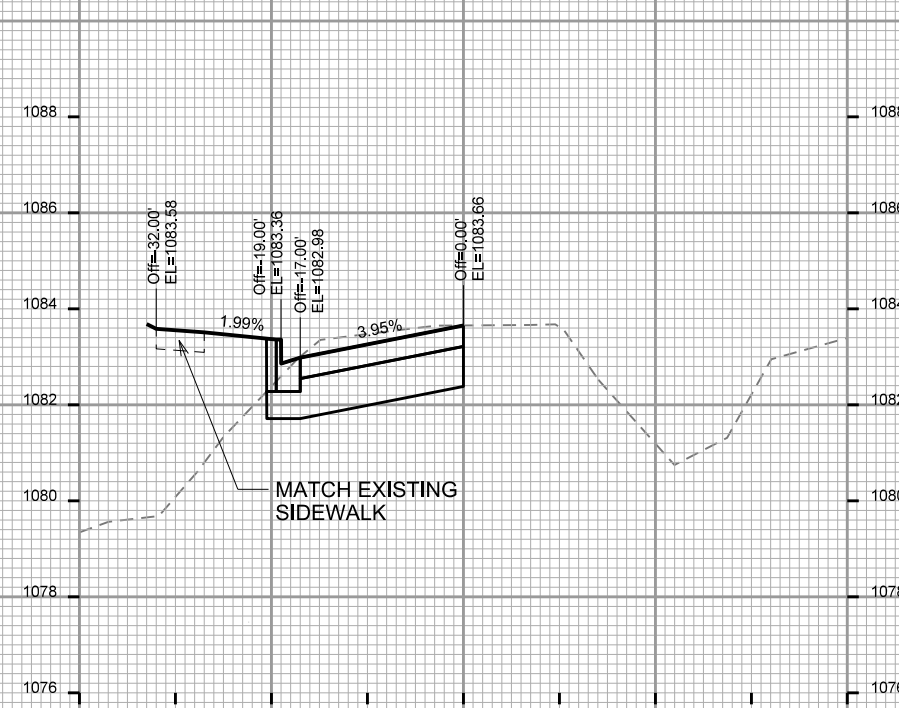
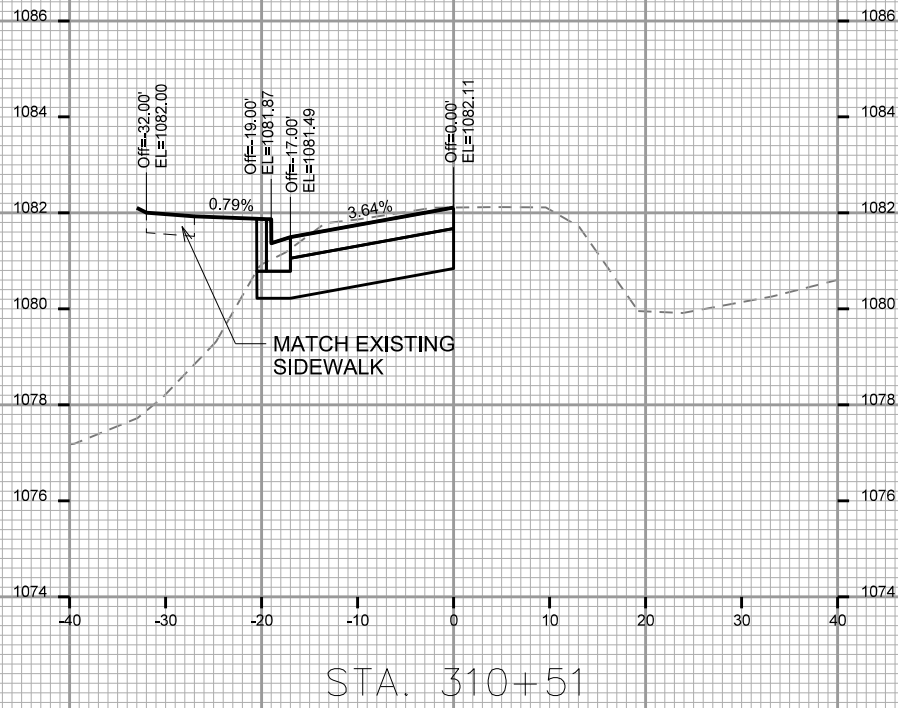
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

