CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

HAWKS VALLEY PHASE 1

CITY PROJECT NO. 53B2271

CITY CONTRACT NO. 2271

MUNIS NO. 10082

Madison, Wisconsin

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 6, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer — Date 8-14-15

INDEX OF SHEETS – STREETS

SHEET NO.	1	TITLE
SHEET NO.	D1–D7	NOTES AND DETAILS Rev 9-29-15 JPS
SHEET NO.	P1	ASHWORTH DRIVE
SHEET NO.	P2	RAPTOR DRIVE
SHEET NO.	P3–P5	TIERCEL/SWAINSON DRIVE
SHEET NO.	P6–P7	WOODS ROAD
SHEET NO.	P8–P9	MID TOWN ROAD
SHEET NO.	P10	EASEMENT SIDEWALK
SHEET NO.	E1	ELECTRICAL PLAN
SHEET NO.	X1–X9	CROSS–SECTIONS WOODS ROAD
SHEET NO.	X10–X16	CROSS–SECTIONS MID TOWN ROAD

INDEX OF SHEETS – SEWER UTILITY

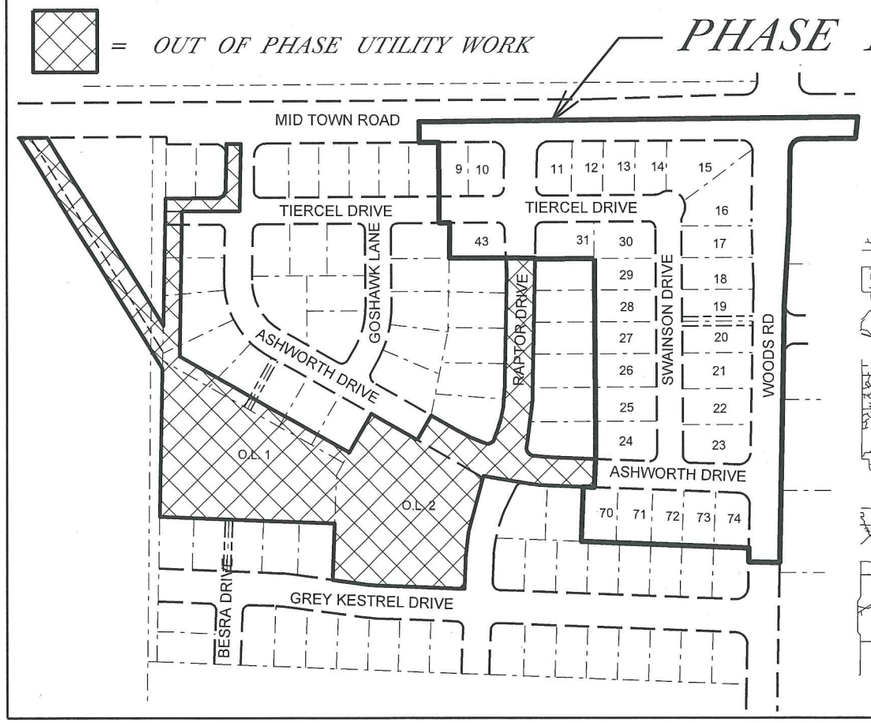
SHEET NO.	U1–U2	ASHWORTH DRIVE UTILITY
SHEET NO.	U3–U4	RAPTOR DRIVE UTILITY
SHEET NO.	U5–U7	TIERCEL/SWAINSON DRIVE UTILITY
SHEET NO.	U8–U10	EASEMENT UTILITY
SHEET NO.	U11	MID TOWN UTILITY
SHEET NO.	U12	SANITARY SEWER SCHEDULE
SHEET NO.	U13–U14	STORM SEWER SCHEDULE
SHEET NO.	U15	POND DETAILS

INDEX OF SHEETS – WATER

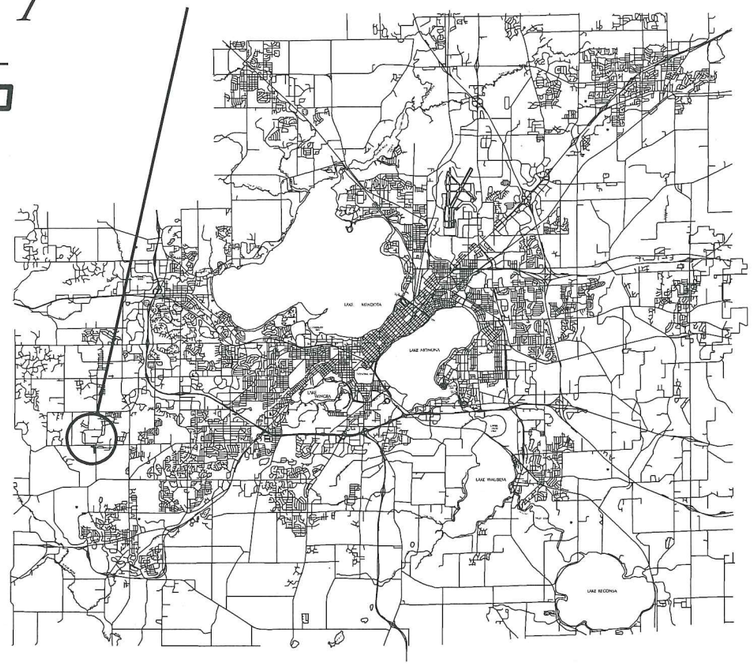
SHEET NO.	W1	ASHWORTH DRIVE WATER
SHEET NO.	W2	RAPTOR DRIVE WATER
SHEET NO.	W3–W5	TIERCEL/SWAINSON DRIVE WATER
SHEET NO.	W6	WOODS ROAD WATER
SHEET NO.	W7	WATER IMPACT PLAN
SHEET NO.	W8	WATER ESTIMATE OF MATERIALS

= OUT OF PHASE UTILITY WORK

PHASE 1



PROJECT LOCATION



ELECTRICAL DESIGNED BY:

WISCONSIN — BRIAN J. SMITH — E-37284 — MADISON WI — 8-13-15 — PROFESSIONAL ENGINEER

STREET GRADES DESIGNED BY:

WISCONSIN — JOHN P. SAPP — 44054 — Janesville, WI — 8-12-15 — PROFESSIONAL ENGINEER

STREET GEOMETRICS DESIGNED BY:

WISCONSIN — SCOTT A LANGER — E-42119 — MADISON WI — 8-13-15 — PROFESSIONAL ENGINEER

SANITARY SEWER DESIGNED BY:

WISCONSIN — MARK A. MOSER — E-36379 — MADISON WI — PROFESSIONAL ENGINEER

8/14/15

WATER DESIGNED BY:

WISCONSIN — KELLY B. MIESS — E-41821 — MADISON WI — 8-12-15 — PROFESSIONAL ENGINEER

STORM SEWER DESIGNED BY:

WISCONSIN — GREGORY J. FRIES — E-30656 — MADISON WI — PROFESSIONAL ENGINEER

8/13/15

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-TitleSht.dgn

DATE: 8/10/2015

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.

WORK ON MIDTOWN RD SHALL ONLY TAKE PLACE DURING OFF PEAK HOURS (8:30 A.M. TO 4:00 P.M.). TRAFFIC MAY BE REDUCED TO ONE LANE WITH FLAGGERS MAINTAINING BOTH DIRECTIONS OF TRAFFIC.

WOODS RD MAY BE FULLY CLOSED DURING OFF PEAK HOURS (8:30 A.M. TO 4:00 P.M.) MESSAGE BOARDS NEED TO BE IN PLACE ON WOODS RD IN BOTH DIRECTIONS A MINIMUM OF FIVE DAYS BEFORE THE CLOSURE, NOTIFYING DRIVERS OF THE CLOSURE DATES.

ASHWORTH DRIVE, TIERCEL DRIVE, AND SWAINSON DRIVE SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

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

MID TOWN ROAD AND 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.

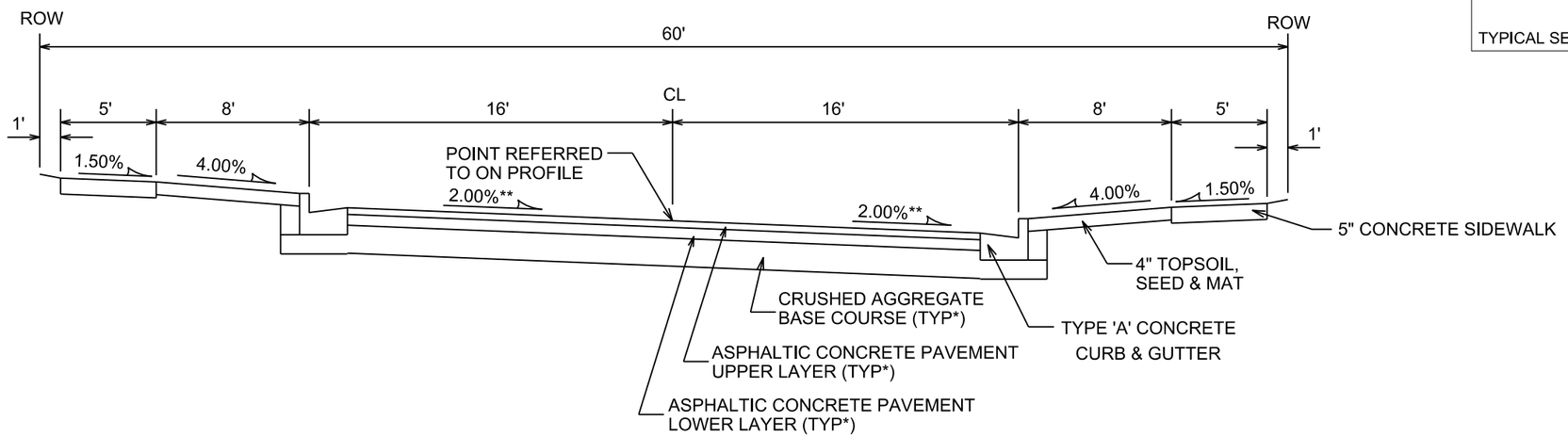
THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

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

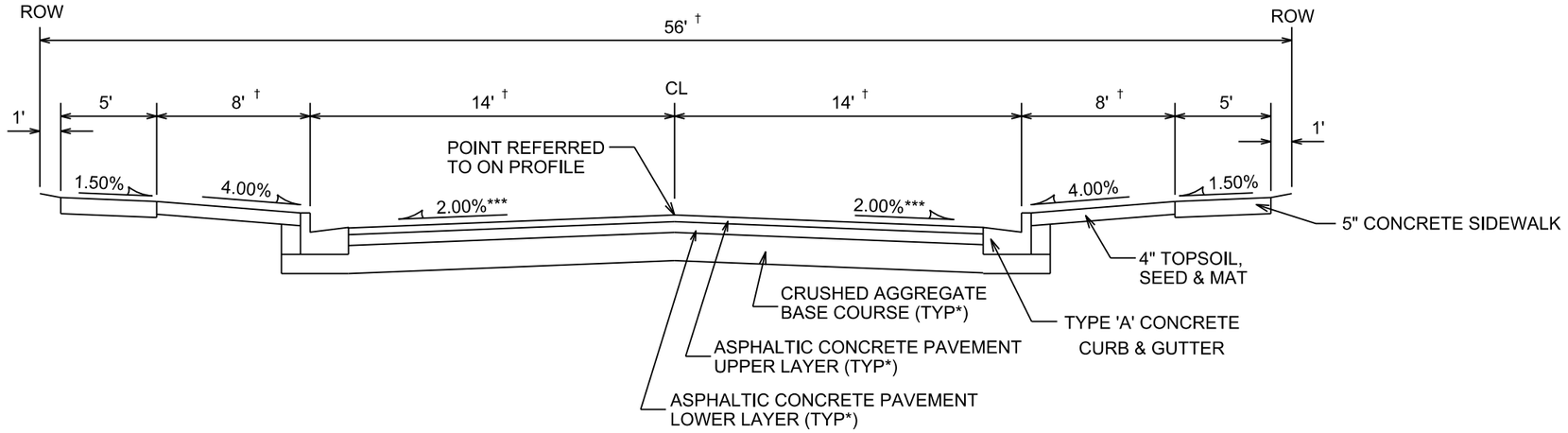
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-2
DETAIL	
TYPICAL SECTION	CITY OF MADISON



TYPICAL SECTION

ASHWORTH DRIVE

STA 22+75 TO STA 26+28



TYPICAL SECTION

TIERCEL DR./SWAINSON DR.

STA 117+33 TO STA 122+55

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	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:

* ASHWORTH DRIVE, TIERCEL DRIVE, AND SWAINSON DRIVE TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

** CROSS SLOPE VARIES ON ASHWORTH DRIVE FROM STA 25+75 TO STA 26+28. SEE PLANS

*** CROSS SLOPE VARIES ON TIERCEL/SWAINSON DRIVE FROM STA 121+94 TO STA 122+55; AND FROM 125+75 TO STA 127+41. SEE PLANS

† WIDTH VARIES ON TIERCEL/SWAINSON DRIVE FROM STA 121+76 TO STA 122+55. SEE PLANS

PLOT SCALE:

PLOT NAME:

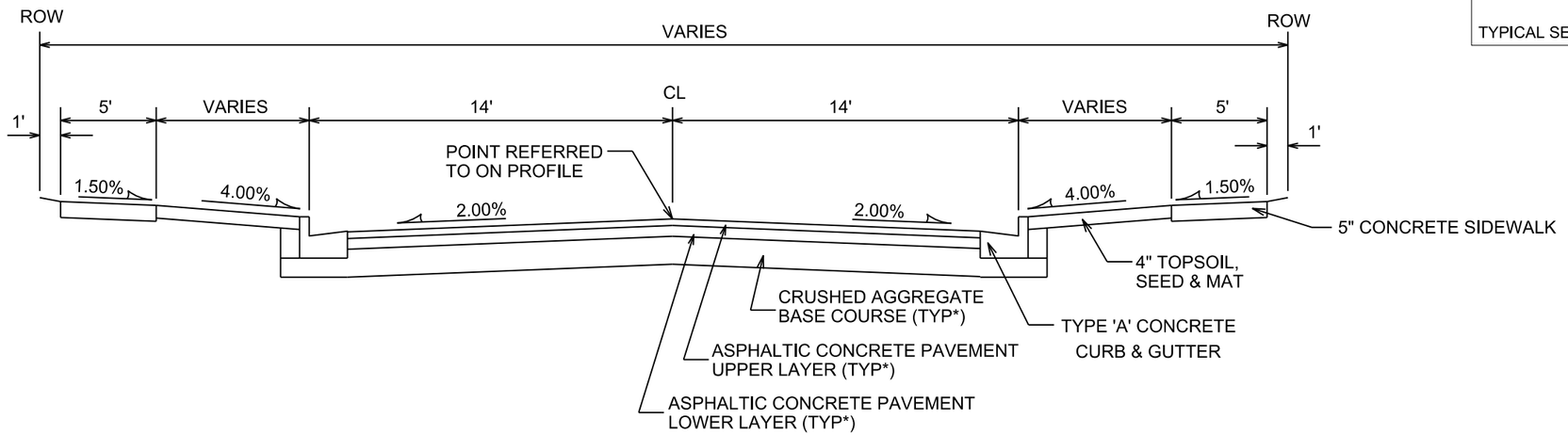
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN_D2_TypSection.dgn

DATE: 8/13/2015

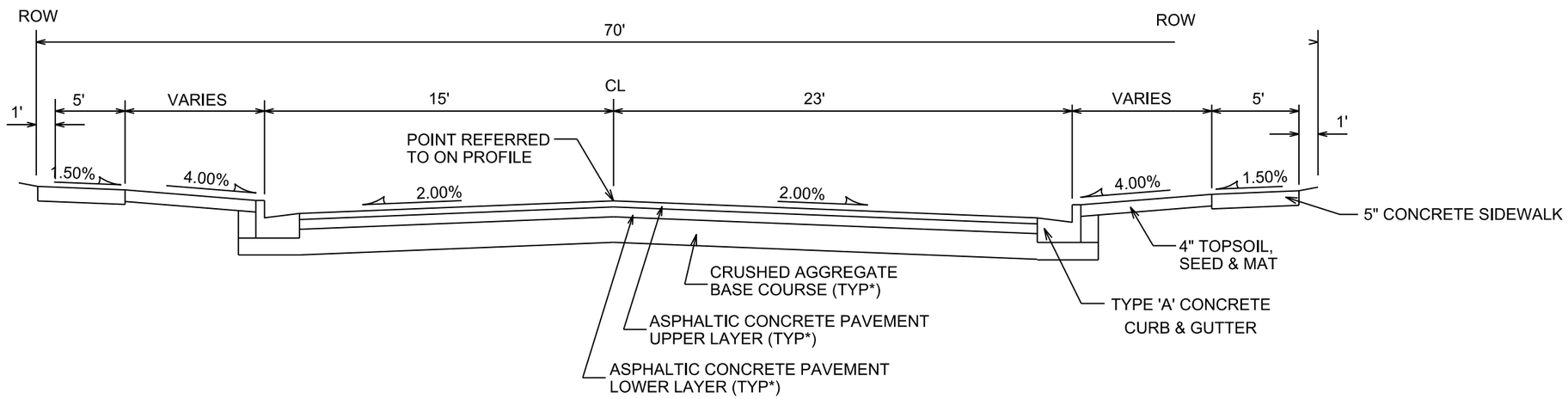
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-3
DETAIL	
TYPICAL SECTION	CITY OF MADISON



TYPICAL SECTION

RAPTOR DRIVE

STA 100+42 TO STA 101+50



TYPICAL SECTION

RAPTOR DRIVE

STA 101+50 TO STA 102+73

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	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:

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

PLOT SCALE:

PLOT NAME:

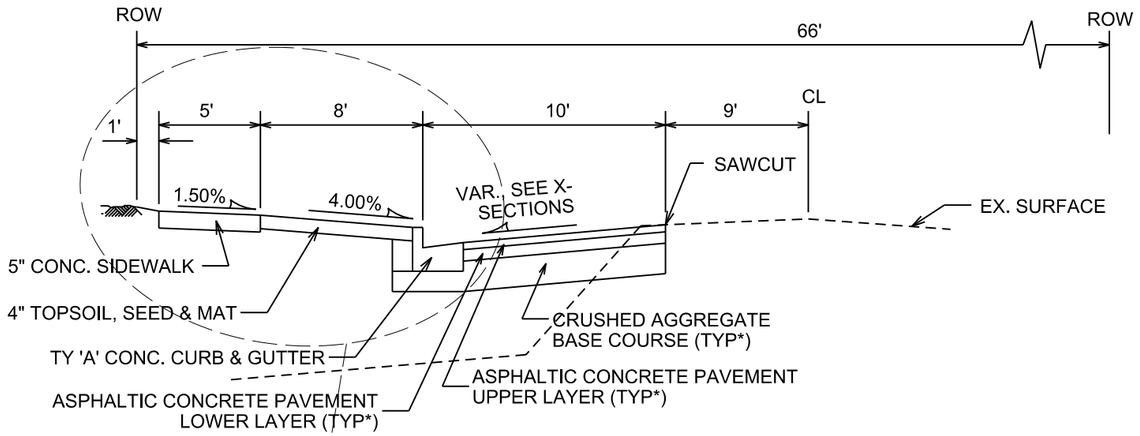
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN_D3_TypSection.dgn

DATE: 8/13/2015

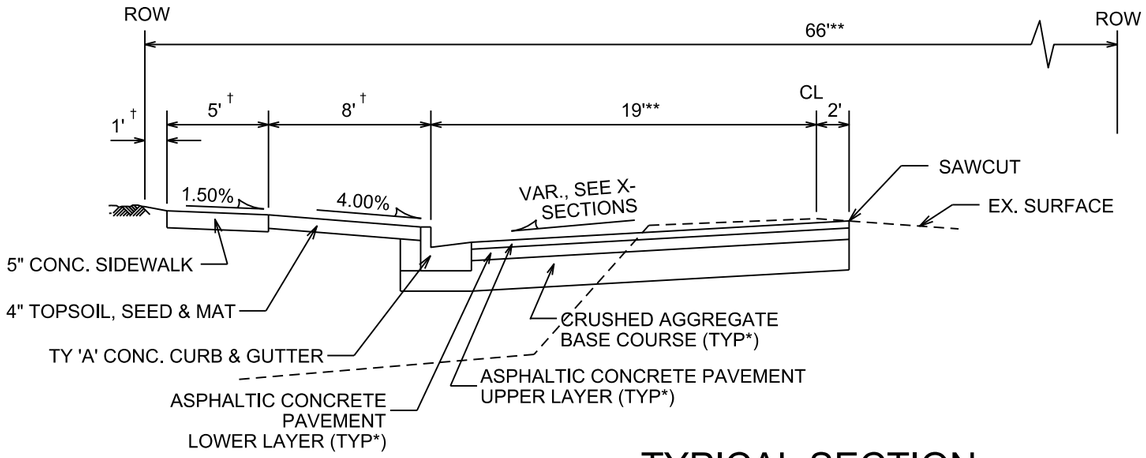
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-4
DETAIL	
TYPICAL SECTION	CITY OF MADISON



TYPICAL SECTION

WOODS ROAD

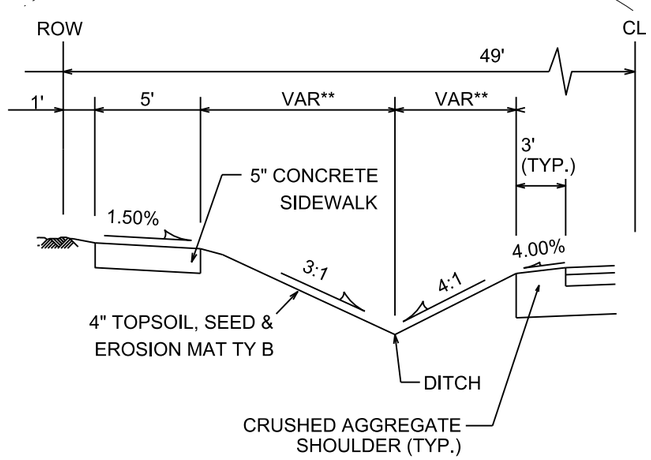
STA 310+43 TO STA 314+50



TYPICAL SECTION

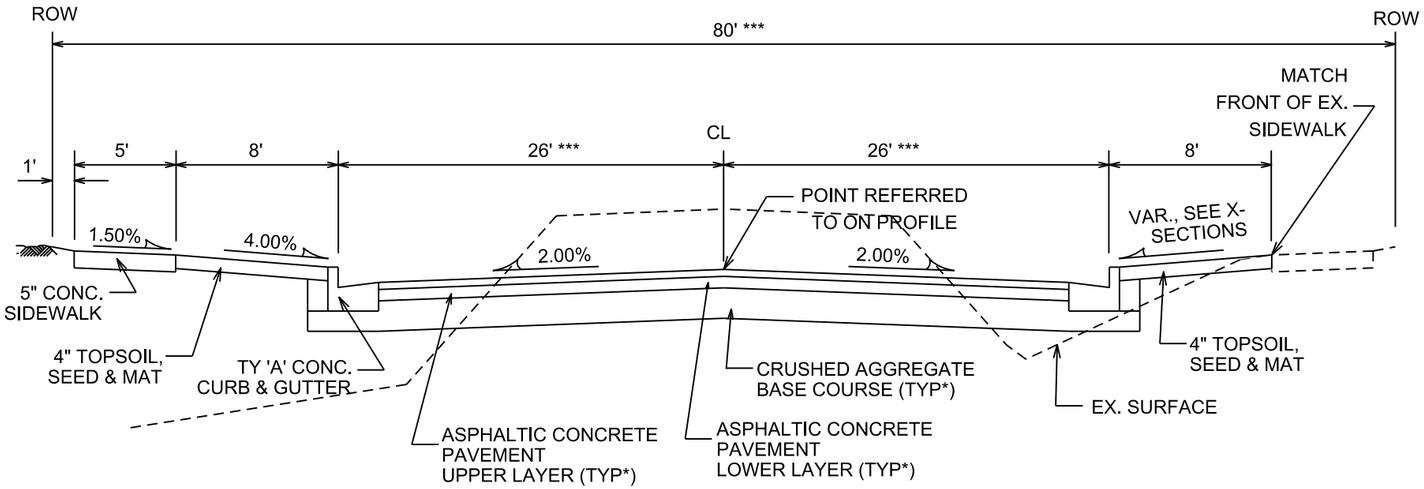
WOODS ROAD

STA 314+50 TO STA 316+91



PROPOSED LEFT SIDE

STA 310+43 TO STA 311+56



TYPICAL SECTION

WOODS ROAD

STA 316+91 TO STA 319+02

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER		UPPER LAYER	
			TYPE	THICKNESS	TYPE	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:

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

** WIDTH VARIES FROM 316+04 TO 316+91

*** WIDTH VARIES FROM 316+91 TO 317+44

† WIDTH VARIES FROM 314+68 TO 315+64

PLOT SCALE:

PLOT NAME:

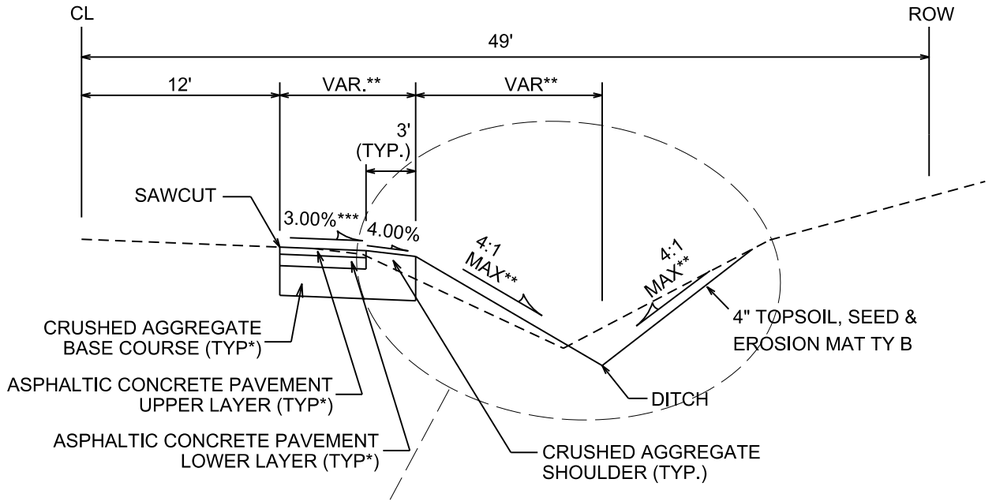
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN_D4_TypSection.dgn

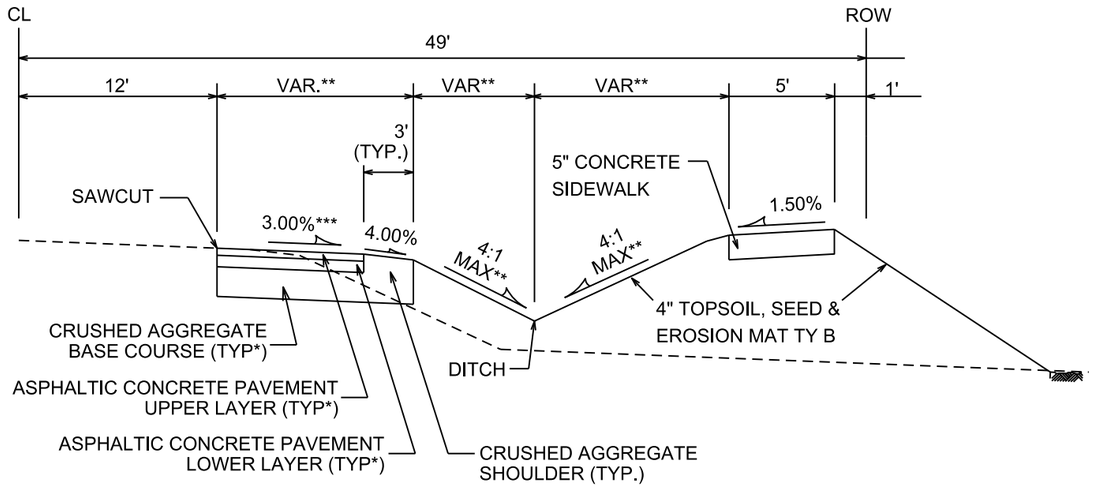
DATE: 8/13/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-5
DETAIL	
TYPICAL SECTION	CITY OF MADISON



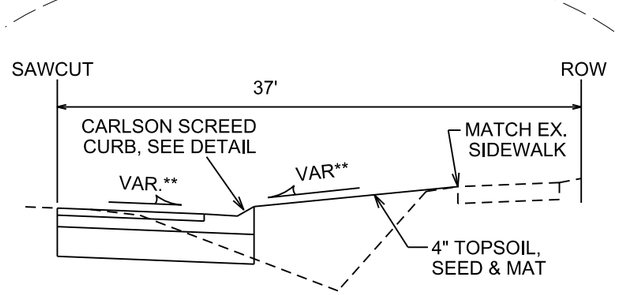
TYPICAL SECTION

MIDTOWN RD
STA 139+78 TO STA 140+09;
AND STA 147+84 TO STA 149+25

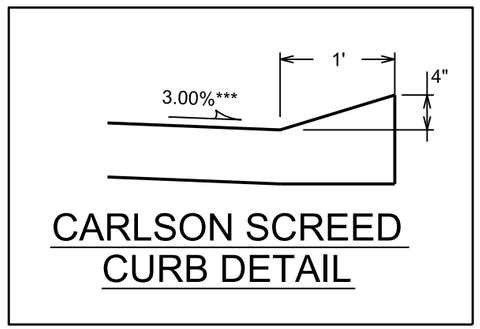


TYPICAL SECTION

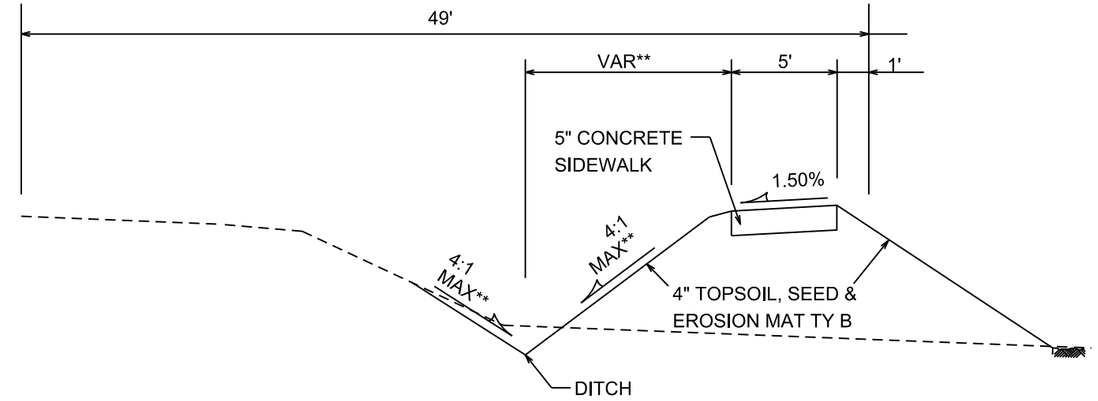
MIDTOWN RD
STA 140+09 TO STA 143+46;
AND STA 145+09 TO STA 147+84



PROPOSED RIGHT SIDE
FOR STA 147+84 TO 148+23



CARLSON SCREED CURB DETAIL



TYPICAL SECTION

MIDTOWN RD
STA 143+46 TO STA 145+09

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE GRADATION 2	ASPHALTIC CONCRETE PAVEMENT			
		LOWER LAYER		UPPER LAYER	
		TYPE	THICKNESS	TYPE	THICKNESS
A	10"	E-0.3	1.75"	E-0.3	1.75"
B	10"	E-1	2.25"	E-1	2"
C	10"	E-3	3.25"	E-3	2"

NOTES:

* MID TOWN ROAD TO BE CONSTRUCTED AS TYPE 'C' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

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

*** VAR. FROM 146+53 TO 148+20. SEE CROSS SECTIONS

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

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN_D5_TypSection.dgn

DATE: 8/13/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-6
DETAIL	
TYPICAL SECTION	CITY OF MADISON
REV. 2015 09-29 JPS	

SCALE 1"=60'

STA 'AW'19+74.59,
0.00, EP/PT

STA 'AW'19+74.59,
LT 10.00', EP/PT

STA 'AW'20+51.04,
LT 10.00', EP/PCC

STA 'AW'20+82.55,
LT 22.67', EP/MC

STA 'RP'96+57.07
LT 10.00' EP/PC

STA 'RP'96+80.90
LT 10.00' EP/PT

STA 'RP'97+22.21
LT 13.11' EP/PC

STA 'AW'20+93.53,
0.00, EP/MC

STA 'RP'96+55.90
0.00 EP/PT

STA 'AW'21+20.64
LT 21.83' EP/MC

STA 'RP'96+80.90
0.00 EP/PC

STA 'RP'97+23.41
LT 3.18' EP/PT.

STA 'AW'21+51.25
LT 10.00' EP/PCC

STA 'AW'22+12.48
0.00 EP/PC

STA 'AW'22+12.48
LT 10.00' EP/PC

STA 'AW'22+74.00
0.00 EP/MATCH ASPH.

STA 'AW'22+74.00
LT 10.00' EP/MATCH ASPH.

STA 'RP'99+71.02
LT 15.00' EP/PI

STA 'RP'100+42.00
LT 15.00' EP/MATCH ASPH.

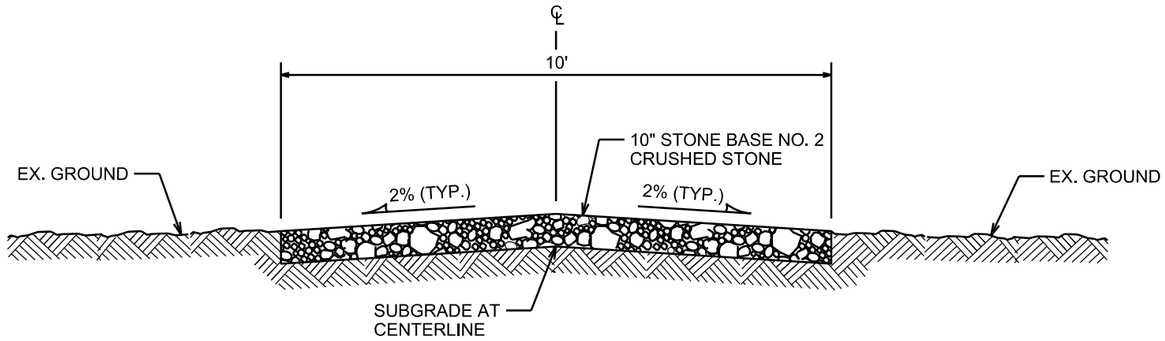
STA 'RP'99+71.53
LT 5.00' EP/PI

STA 'RP'100+42.00
LT 5.00' EP/MATCH ASPH.

R 40'
R 40'
R 190'
R 200'

TIERCEL DR.
RAPTOR DR.
RAPTOR DR.
MID TOWN RD.
ASHWORTH DR.

HAWKS LANDING C
D.L. 4



TYPICAL SECTION

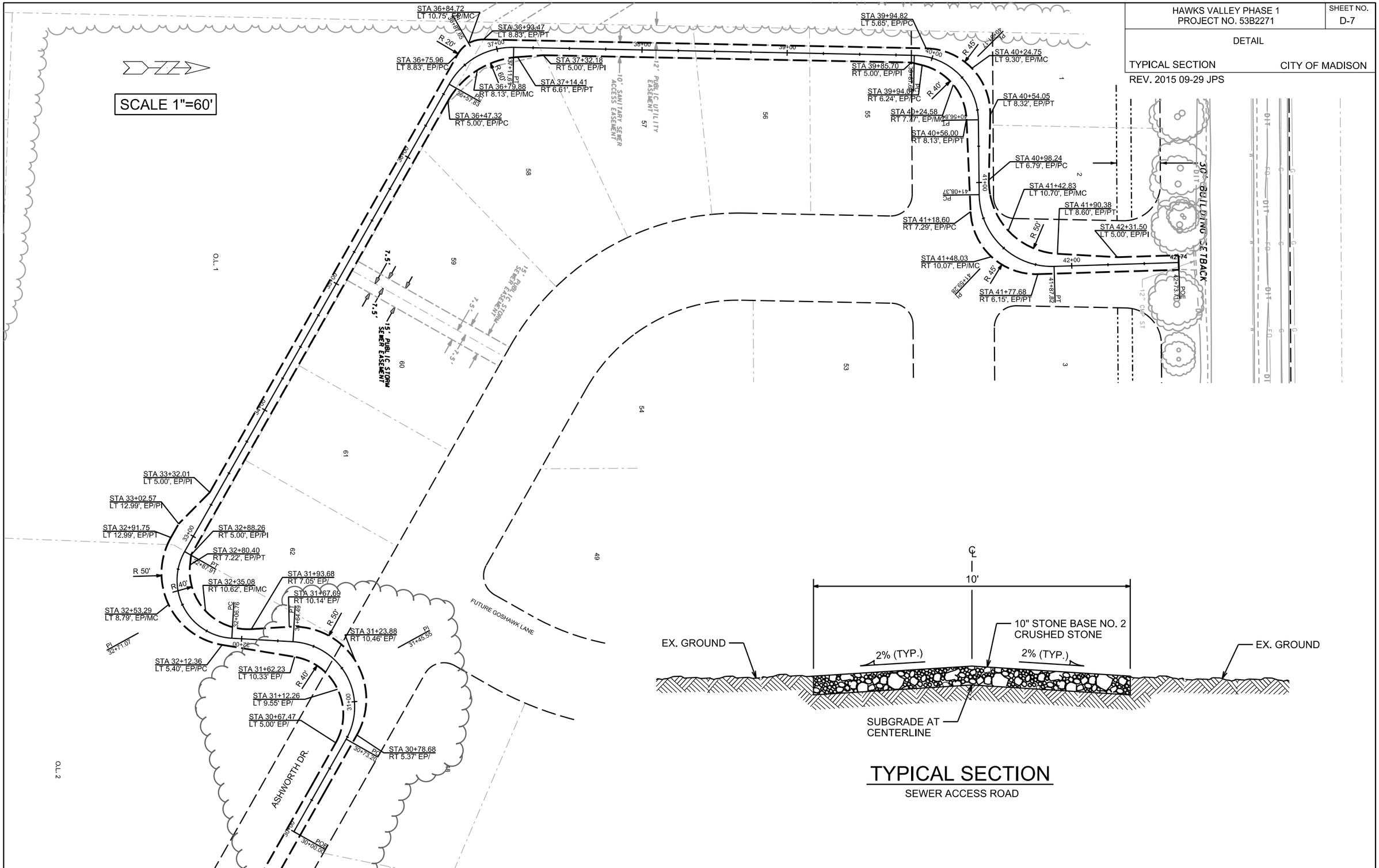
SEWER ACCESS ROAD

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

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271EN-D6-TypSection.dgn
DATE: 10/1/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. D-7
DETAIL	
TYPICAL SECTION	CITY OF MADISON

REV. 2015 09-29 JPS



TYPICAL SECTION

SEWER ACCESS ROAD

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271EN-D7-TypSection.dgn

DATE: 10/1/2015

REV. 2015 09-29 JPS

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. P-1
PLAN AND PROFILE	
ASHWORTH DR	CITY OF MADISON

REVISION NOTES:
ADDED NOTE 3 TO THE PLAN.
ADDED CROSS SLOPES TO THE PLAN.
EXTENDED SEWER ACCESS ROAD TO PHASE BOUNDARIES.
PHASE 1 NOW ENDS AT PHASE BOUNDARIES.

MATCHLINE STA 21+00.00

RAPTOR DR.

PC 96+96.09

PI 96+15.72

PI 96+08.53

PC 96+01.33

SEE SEWER ACCESS ROAD DETAIL FOR LAYOUT

TYPE III BARRICADES WITH CHAIN & LOCK TO LIMIT ACCESS TO MAINTENANCE ROAD.

STA 24+78.00, LT 29.00'
1069.65 BW/END SIDEWALK

STA 24+78.00, LT 16.00'
1069.27 TC/END CURB

5' CONC. SIDEWALK

SWAINSON DR.

R 20'

TY 'X' CURB

TY 'A' CURB

ASHWORTH DR.

STA 22+76.50, RT 16.00'
1068.63 TC/END CURB

STA 22+78.00, RT 29.00'
1069.65 BW/END SIDEWALK

PT 22+12.48

NOTES:

* = GRADE BREAK IN RAMP

1. INSTALL TY 'X' AS NOTED. TRANSITION TO TY 'A'. KEEP TRANSITIONS OUT OF CURB RAMP OPENING

2. INSTALL CURB CUTS FOR FUTURE RAMP

3. STREET CROSS SLOPES MAY VARY NEAR INTERSECTIONS. CURB GRADES PROVIDED AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE TRANSITIONS.

STA 24+32.18, RT 29.00'
1078.81 BW/KEYSTONE

POE 128+15.37

128+15

STA 24+85.25, RT 29.00'
1084.49 BW/KEYSTONE

STA 26+46.23, LT 36.41'
1088.82 TC/PT

STA 26+40.52, LT 22.01'
1088.38 TC/MC

STA 26+33.28, LT 33.65'
1088.41 BW/KEYSTONE

STA 26+26.23, LT 16.00'
1087.50 TC/PC

1086.00 TC/

1086.84 TC/

1087.48 TC/

UNDERDRAIN

NOTE 2

WOODS RD.

2% (TYP.)

3%

4%

1085.44 TC/

1086.00 TC/

1086.36 TC/

STA 26+06.28, RT 29.00'
1096.47 BW/HI POINT

STA 26+27.72, RT 16.00'
1086.40 TC/PC

STA 26+34.64, RT 31.86'
1086.13 BW/KEYSTONE

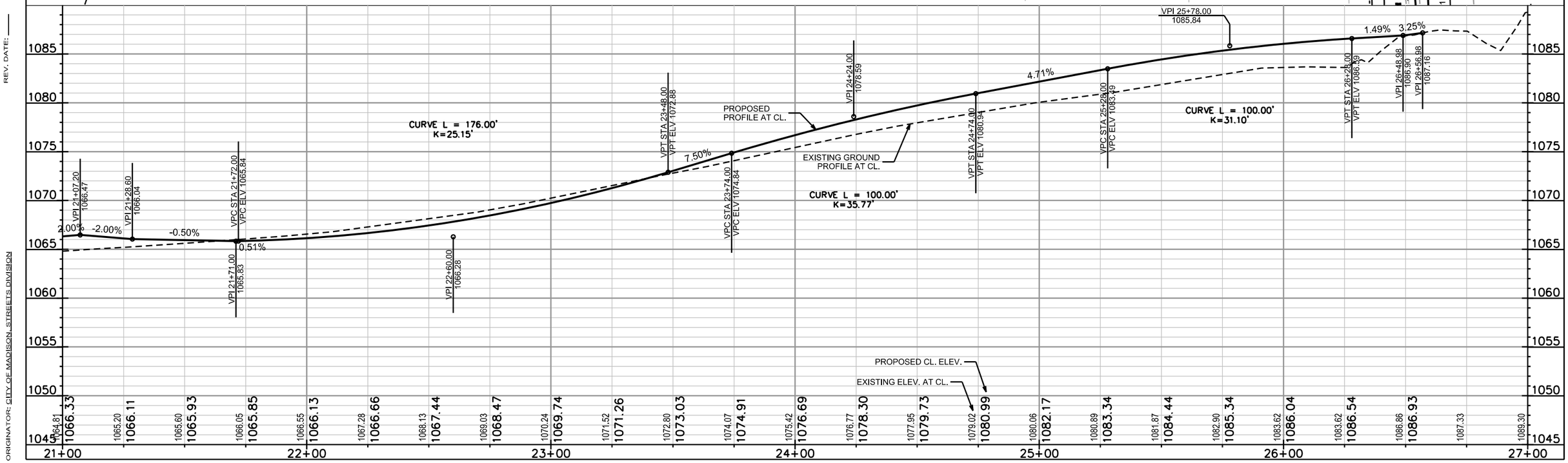
STA 26+41.72, RT 21.71'
1086.50 TC/MC HI POINT

STA 26+47.72, RT 35.59'
1085.79 TC/PT

STA 26+47.84, RT 41.58'
1085.53 TC/END CURB

POE 27+09.48

68 69 70 71 72 73 74



PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-Ashw-2.dgn

DATE: 10/1/2015

HAWK'S VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. P-2
PLAN AND PROFILE	
RAPTOR DR	CITY OF MADISON

REV. 2015 09-29 JPS

REVISION NOTES:

EXTENDED SEWER ACCESS ROAD TO PHASE BOUNDARIES.
PHASE 1 NOW ENDS AT PHASE BOUNDARIES.

MATCHLINE STA 100+00.00

STA 100+46.00, LT 29.89'
1092.96 BW/END SIDEWALK

STA 101+00.00, LT 32.22'
1094.23 BW/HI POINT

5' CONC. SIDEWALK

STA 100+46.00, LT 16.00'
1092.54 TC/END CURB

SEE SEWER ACCESS ROAD DETAIL FOR LAYOUT

TY 'A' CURB

TYPE III BARRICADES WITH CHAIN & LOCK TO LIMIT ACCESS TO MAINTENANCE ROAD.

RAPTOR DR.

STA 100+46.00, RT 16.00'
1092.54 TC/END CURB

5' CONC. SIDEWALK

STA 100+46.00, RT 30.94'
1093.00 BW/END SIDEWALK

STA 101+00.00, RT 32.33'
1094.23 BW/HI POINT

TIERCEL DR.

STA 102+00.00, LT 33.11'
1094.40 BW/HI POINT

STA 103+02.81, LT 51.01'
1093.84 TC/END CURB

STA 103+02.80, LT 45.01'
1093.89 TC/PT

STA 102+94.01, LT 23.80'
1093.73 TC/MC

STA 102+85.38, LT 32.94'
1093.80 BW/KEYSTONE

STA 102+72.80, LT 15.01'
1093.48 TC/PC

NOTE 1

STA 102+63.00, LT 15.01'
1093.42 TC/LO POINT

UNDERDRAINS

STA 102+63.00, RT 23.00'
1093.26 TC/LO POINT

STA 102+00.00, RT 34.91'
1094.04 BW/HI POINT

2' CONC.

NOTE 2

NOTE 1

STA 102+63.00, RT 36.54'
1093.66 BW/LO POINT

STA 102+71.93, RT 23.00'
1093.34 TC/PC

STA 102+85.13, RT 40.67'
1094.00 BW/KEYSTONE

STA 102+93.70, RT 31.47'
1094.00 TC/MC

STA 103+02.80, RT 52.99'
1094.28 TC/PT

STA 103+02.80, RT 58.99'
1094.31 TC/END CURB

MID TOWN RD.

SAWCUT

SAWCUT

SAWCUT

POE 103+90.99

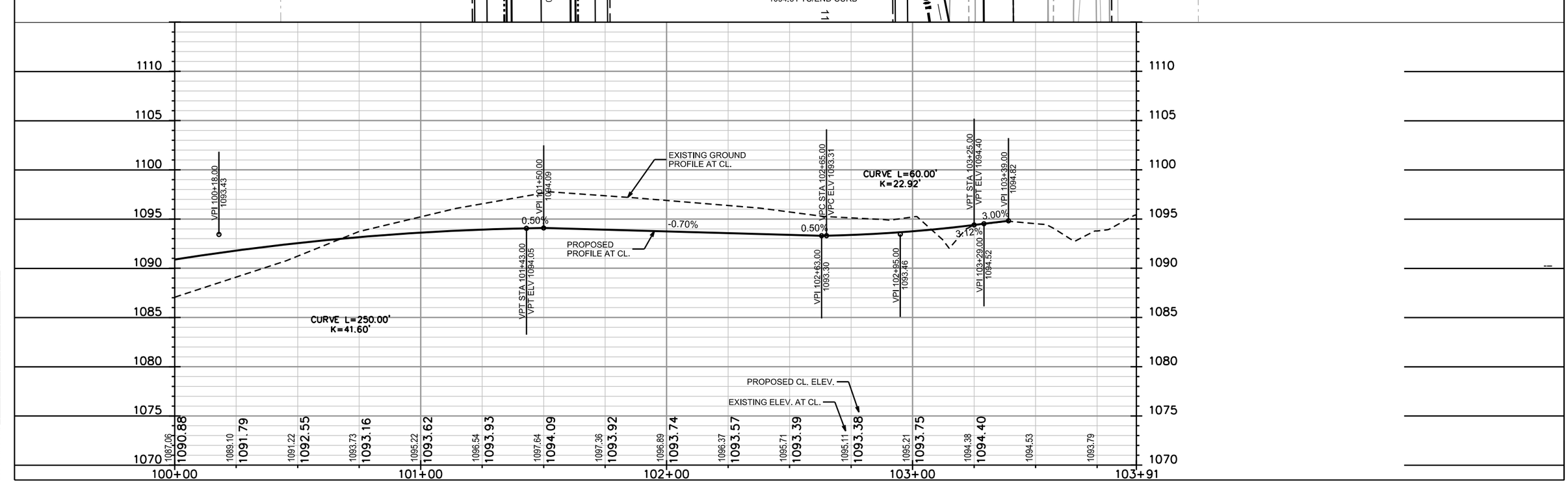
HAWKS LANDING GOLF CLUB O.L. 4

R 20'

R 30'

NOTES:

1. TRANSITION FROM 0" TO 6" CURB HEAD OVER 10'
2. INSTALL CURB CUTS FOR FUTURE RAMP



PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-Rapt-2.dgn

DATE: 10/1/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
P-3

PLAN AND PROFILE

TIERCEL DR

CITY OF MADISON

5 6 7 8 9 10 11

POE
54+63.27

54+63

54+00

+00 116+00 117+00 118+00 119+00 120

102+00 101+00

STA 117+33.18, LT 27.00'
1090.38 BW/END SIDEWALK

STA 117+33.18, LT 14.00'
1090.00 TC/END CURB

5' ASPHALT TRANSITION

TYPE III BARRICADES

STA 117+33.18, RT 14.00'
1090.00 TC/END CURB

STA 117+33.18, RT 27.00'
1090.38 BW/END SIDEWALK

5' CONC. SIDEWALK

TY 'A' CURB

5' CONC. SIDEWALK

14' 14' 14' 14' 56'

STA 118+91.82, LT 34.00'
1093.98 TC/PT

STA 118+85.96, LT 19.86'
1093.89 TC/MC

STA 118+73.13, LT 28.99'
1093.79 BW/KEYSTONE

STA 118+71.82, LT 14.00'
1093.43 TC/PC

STA 118+70.82, RT 14.00'
1093.41 TC/PC

STA 118+72.17, RT 27.00'
1093.59 BW/KEYSTONE

STA 118+84.96, RT 19.86'
1093.83 TC/MC

STA 118+90.82, RT 34.00'
1093.91 TC/PT HI POINT

R 20'

UNDER-DRAIN

STA 119+29.82, LT 34.00'
1093.82 TC/PC

STA 119+44.82, LT 28.99'
1093.60 BW/KEYSTONE LO POINT

STA 119+49.82, LT 14.00'
1093.51 TC/PT

STA 119+35.68, LT 19.86'
1093.74 TC/MC

STA 119+67.99, LT 14.00'
1093.42 TC/LO POINT

TIERCEL DR.

STA 119+67.99, RT 14.00'
1093.42 TC/LO POINT

STA 119+42.82, RT 14.00'
1093.65 TC/PT

STA 119+40.32, RT 27.00'
1093.62 BW/KEYSTONE LO POINT

STA 119+28.68, RT 19.86'
1093.83 TC/MC

STA 119+22.82, RT 34.00'
1093.91 TC/PC HI POINT

MATCHLINE STA 120+00.00

51 44 43 31

FUTURE GOSHAWK LANE

PHASE 1 WORK.
SEE 53B2271 PLANS.

5' CONC. SIDEWALK

RAPTOR DR.

5' CONC. SIDEWALK

EXISTING GROUND PROFILE AT CL.

PROPOSED PROFILE AT CL.

VPT STA 115+17.00
VPT ELV 1079.31

5.78%

CURVE L=150.00'
K=28.39'

VPC STA 116+01.00
VPC ELV 1084.17

VPI 116+78.00
1088.50

CURVE L=150.00'
K=45.00'

VPT STA 117+51.00
VPT ELV 1090.33

2.45%

VPI 118+92.00
1093.78

2.00%

VPI 119+06.82
1094.08

-2.00%

VPI 119+40.09
1093.41

-0.50%

VPC STA 119+69.00
VPC ELV 1093.28

0.50%

CURVE L=70.00'
K=46.06'

VPI 119+68.00
1093.27

PROPOSED CL. ELEV.

EXISTING ELEV. AT CL.

1100 1095 1090 1085 1080 1075 1070 1065 1060

1087.79 1078.38 | 1089.47 1079.77 | 1091.16 1081.22 | 1092.54 1082.66 | 1093.80 1084.11 | 1095.03 1085.49 | 1094.74 1086.73 | 1094.28 1087.83 | 1093.82 1088.80 | 1094.48 1089.62 | 1095.41 1090.31 | 1096.34 1090.92 | 1096.86 1091.53 | 1097.37 1092.14 | 1097.88 1092.76 | 1098.25 1093.37 | 1097.71 1093.94 | 1097.18 1093.72 | 1096.71 1093.36 | 1096.64 1093.31 | 1096.56 1093.54

115+00 116+00 117+00 118+00 119+00 120+00

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-TISw-1.dgn

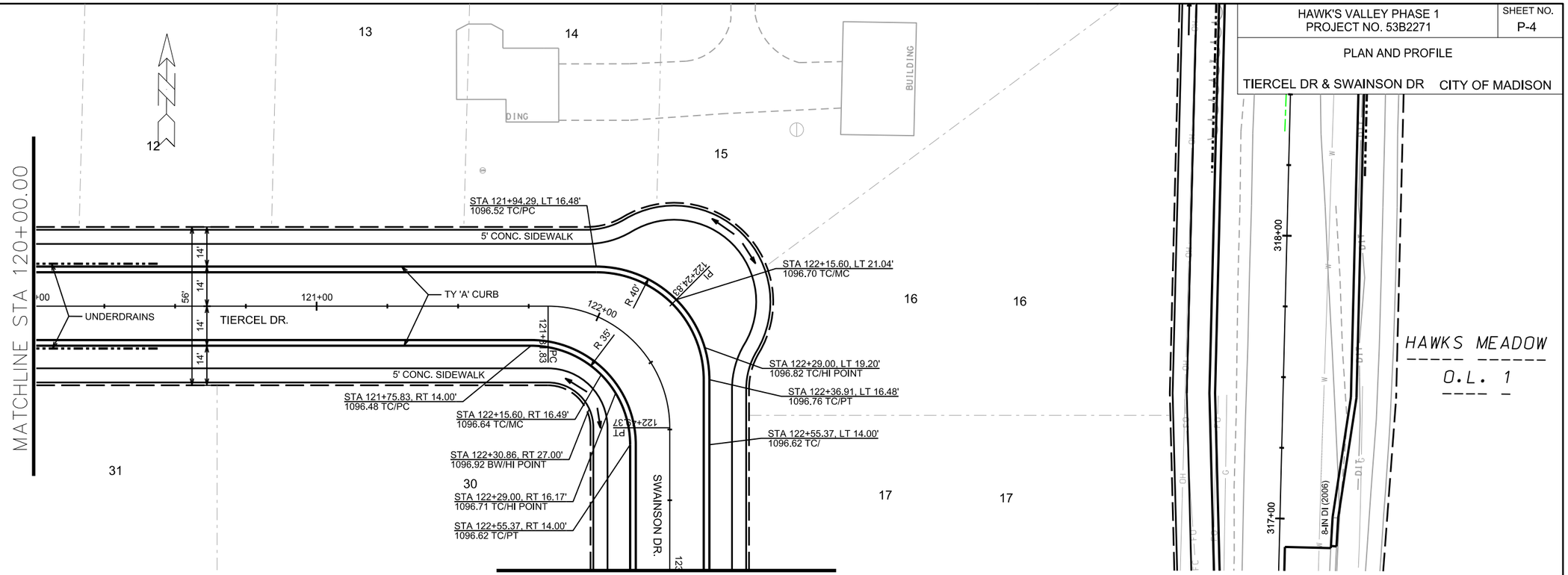
DATE: 8/13/2015

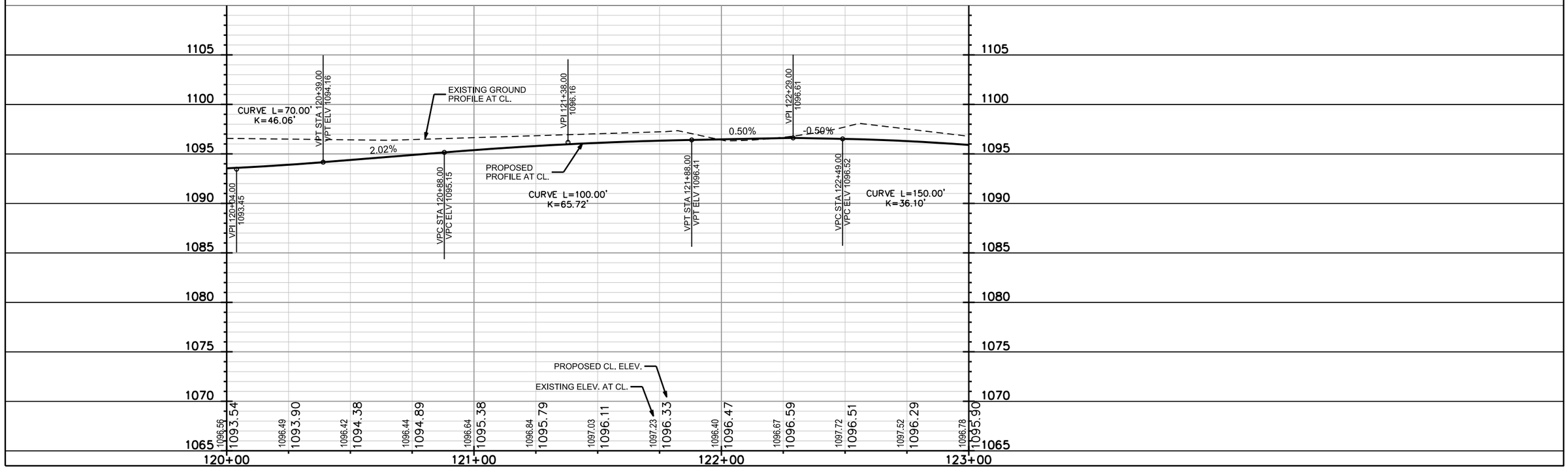
HAWK'S VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
P-4

PLAN AND PROFILE

TIERCEL DR & SWAINSON DR CITY OF MADISON





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-TISw-2.dgn

DATE: 8/13/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

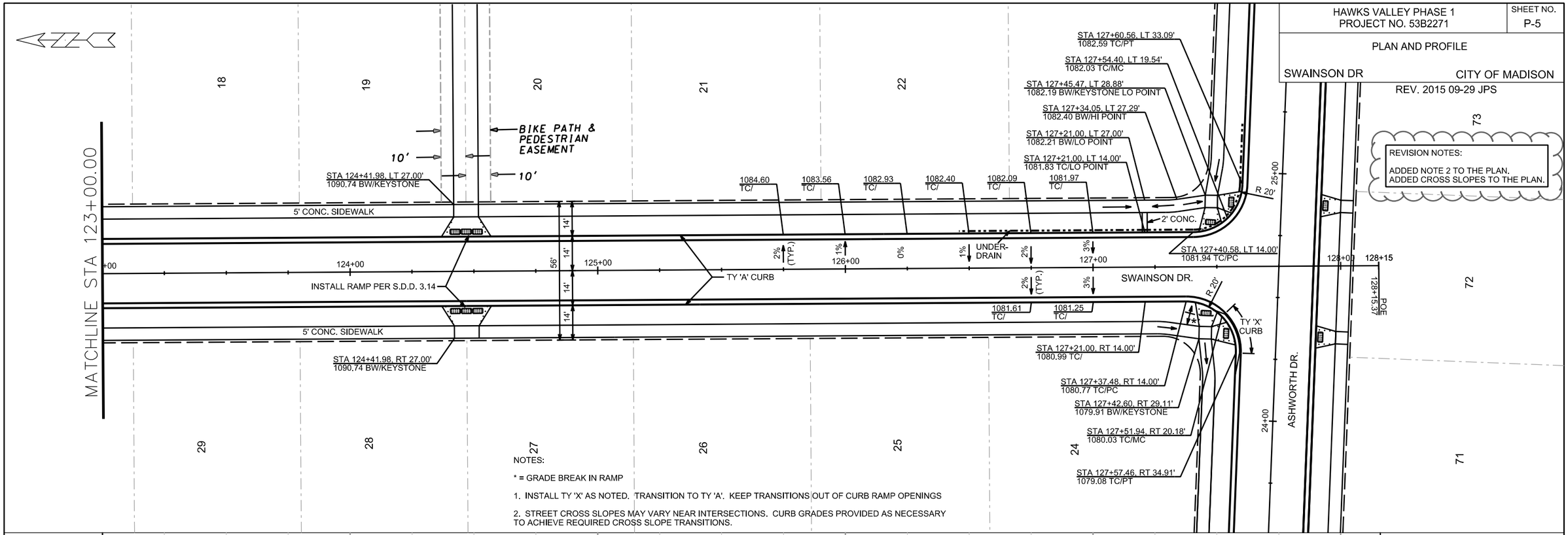
SHEET NO. P-5

PLAN AND PROFILE

SWAINSON DR

CITY OF MADISON

REV. 2015 09-29 JPS



REVISION NOTES:

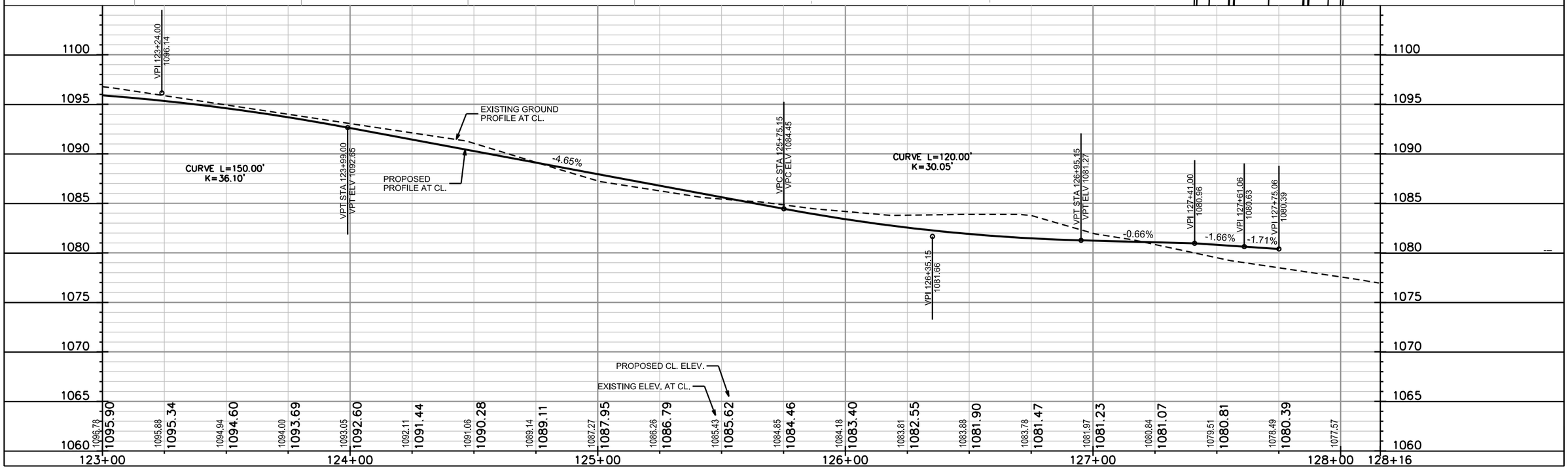
ADDED NOTE 2 TO THE PLAN.
ADDED CROSS SLOPES TO THE PLAN.

NOTES:

* = GRADE BREAK IN RAMP

1. INSTALL TY 'X' AS NOTED. TRANSITION TO TY 'A'. KEEP TRANSITIONS OUT OF CURB RAMP OPENINGS

2. STREET CROSS SLOPES MAY VARY NEAR INTERSECTIONS. CURB GRADES PROVIDED AS NECESSARY TO ACHIEVE REQUIRED CROSS SLOPE TRANSITIONS.



PLOT SCALE: ____

PLOT NAME: ____

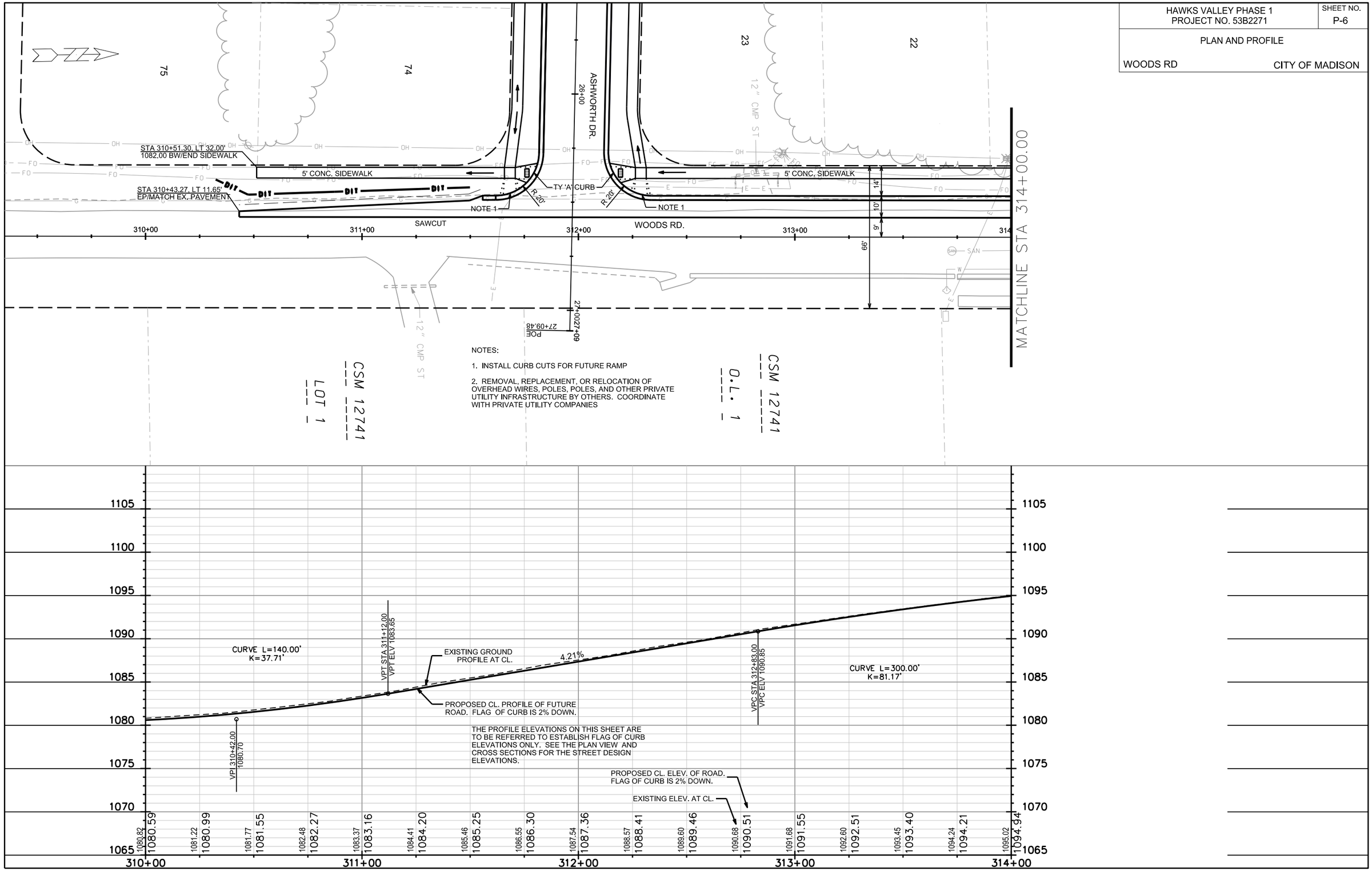
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-TISw-3.dgn

DATE: 10/1/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. P-6
PLAN AND PROFILE	
WOODS RD	CITY OF MADISON



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-Woods-1.dgn

DATE: 8/13/2015

HAWK'S VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
P-7

PLAN AND PROFILE

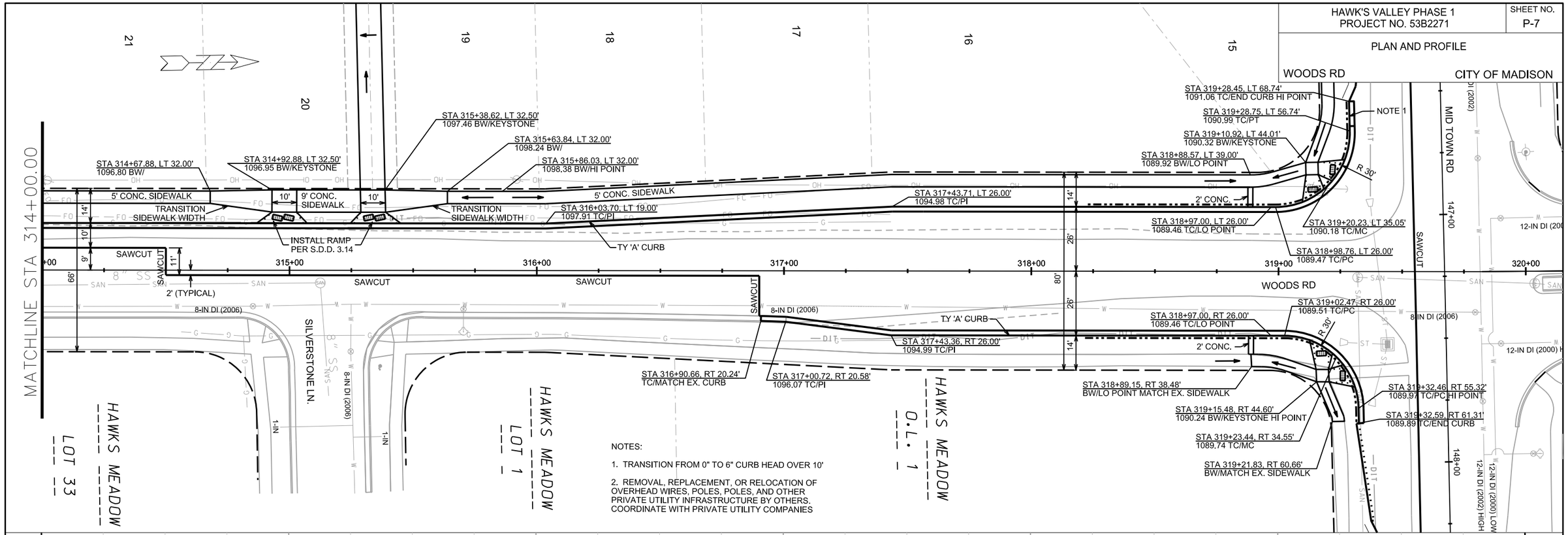
WOODS RD — CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

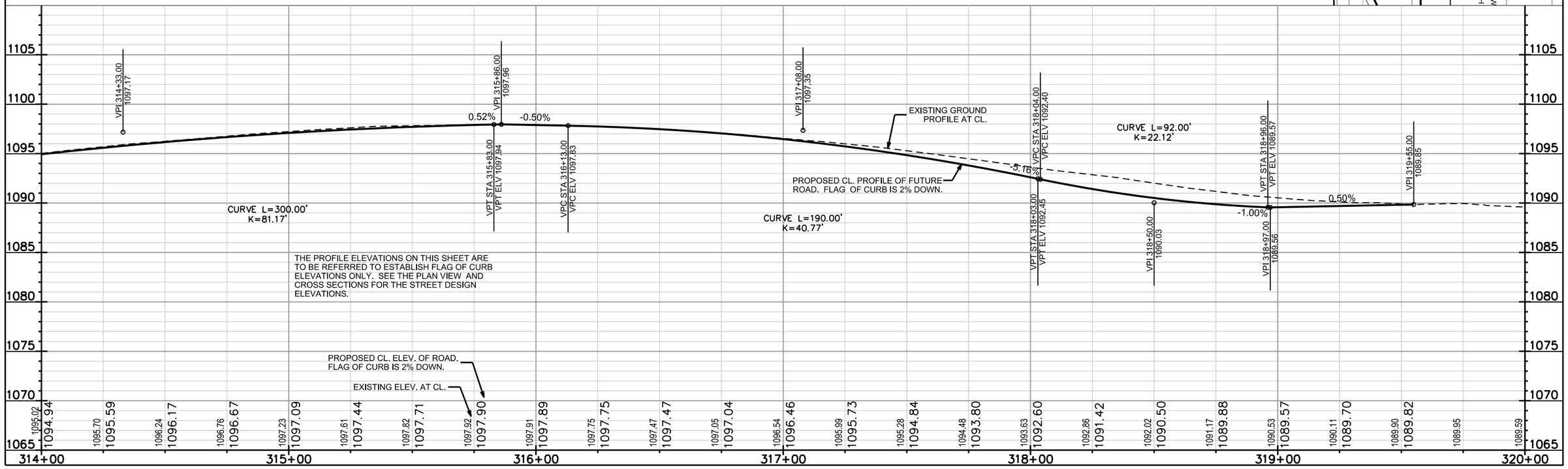
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:

1. TRANSITION FROM 0" TO 6" CURB HEAD OVER 10'

2. REMOVAL, REPLACEMENT, OR RELOCATION OF OVERHEAD WIRES, POLES, POLES, AND OTHER PRIVATE UTILITY INFRASTRUCTURE BY OTHERS. COORDINATE WITH PRIVATE UTILITY COMPANIES



FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-Woods-2.dgn

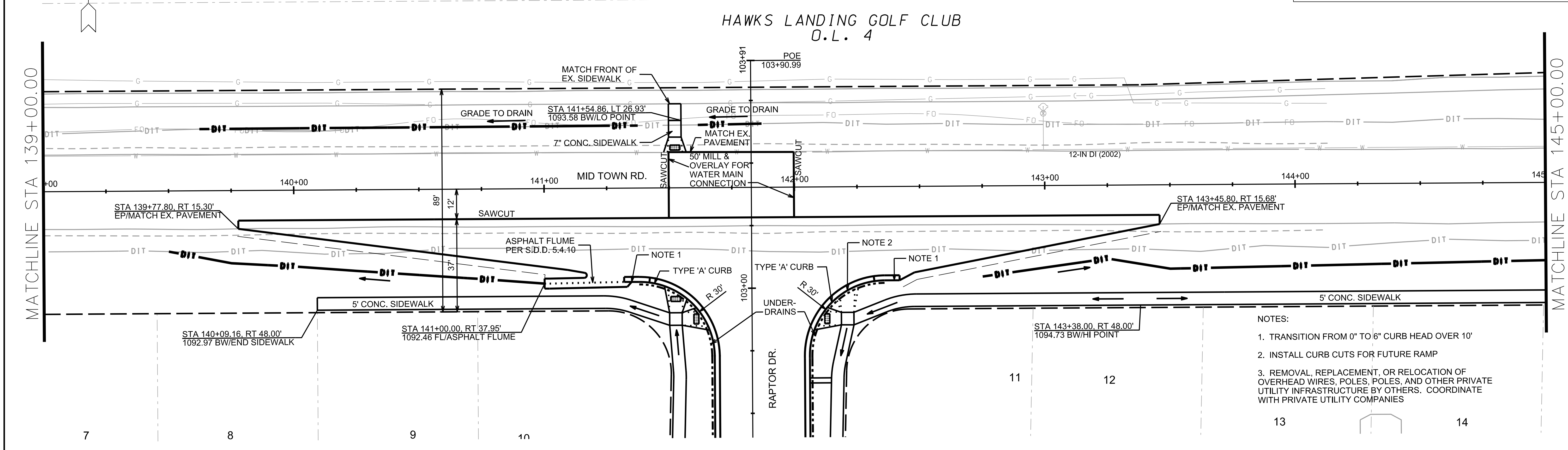
DATE: 8/13/2015

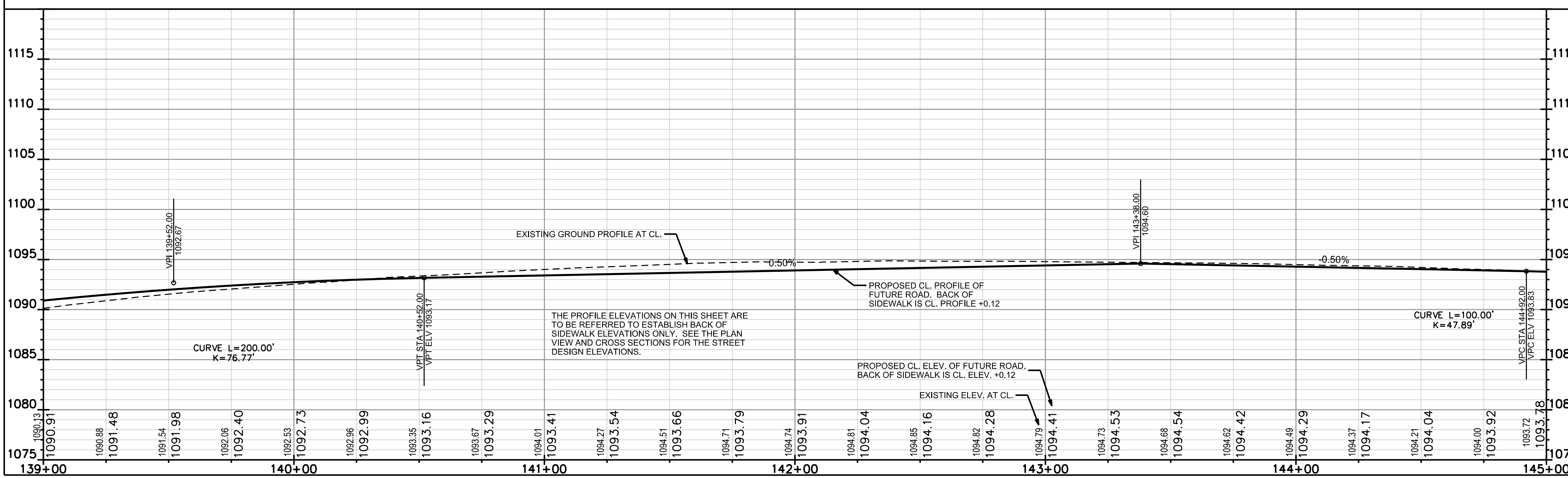
HAWKS VALLEY PHASE 1
PROJECT NO 53B2271

SHEET NO. P-8

PLAN AND PROFILE

MID TOWN RD — CITY OF MADISON





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. P-9
PLAN AND PROFILE	
MID TOWN RD	CITY OF MADISON

HAWKS LANDING GOLF CLUB
O.L. 4

MATCHLINE STA 145+00.00

12-IN DI (2002)

12-IN DI (2000) LOW PRESSURE

12-IN DI (2000) HIGH PRESSURE

12-IN DI (2000) LOW PRESSURE
12-IN DI (2002) HIGH PRESSURE

MID TOWN RD

8-IN DI (2006)

STA 145+09.46, RT 15.85'
EP/MATCH EX. PAVEMENT

SAWCUT

STA 149+25.02, RT 15.65'
EP/MATCH EX. PAVEMENT

12'

37'

NOTE 1

5' CONC. SIDEWALK

R 30'

R 30'

STA 148+23.04, RT 30.90'
1089.21 FL/END CARLSON SCREED

320+00

319+00

WOODS RD

HAWKS MEADOW
O.L. 1

15

NOTES:

1. TRANSITION FROM 0" TO 6" CURB HEAD OVER 10'

2. REMOVAL, REPLACEMENT, OR RELOCATION OF OVERHEAD WIRES, POLES, POLES, AND OTHER PRIVATE UTILITY INFRASTRUCTURE BY OTHERS. COORDINATE WITH PRIVATE UTILITY COMPANIES

VPI 145+42.00
1093.58

VPC STA 146+08.00
VPC ELV 1091.87

CURVE L=60.00'
K=28.71'

EXISTING GROUND
PROFILE AT CL.

VPT STA 146+68.00
VPT ELV 1090.95

VPI 147+63.00
1090.47

VPI 148+20.00
1089.78

VPI 149+68.00
1089.05

-2.59%

-0.50%

-1.21%

-0.50%

0.50%

CURVE L=100.00'
K=47.89'

VPT STA 145+92.00
VPT ELV 1092.29

VPI 146+38.00
1091.10

PROPOSED CL. PROFILE OF
FUTURE ROAD. BACK OF
SIDEWALK IS CL. PROFILE +0.12

THE PROFILE ELEVATIONS ON THIS SHEET ARE TO BE REFERRED TO ESTABLISH BACK OF SIDEWALK ELEVATIONS ONLY. SEE THE PLAN VIEW AND CROSS SECTIONS FOR THE STREET DESIGN ELEVATIONS.

PROPOSED CL. ELEV. OF FUTURE ROAD.
BACK OF SIDEWALK IS CL. ELEV. +0.12

EXISTING ELEV. AT CL.

1110 1105 1100 1095 1090 1085 1080 1075 1070

1093.72 1093.78 1093.34 1093.55 1092.98 1093.19 1092.65 1092.70 1092.29 1092.08 1091.93 1091.48 1091.60 1091.09 1091.19 1090.91 1090.21 1090.79 1089.90 1090.66 1089.76 1090.54 1089.83 1090.33 1090.07 1090.02 1089.91 1089.76 1089.90 1089.63 1089.92 1089.51 1089.99 1089.39 1090.26 1089.27 1090.44 1089.21 1090.61 1089.20 1090.76 1089.24

145+00 146+00 147+00 148+00 149+00 150+00

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

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-Mid-2.dgn

DATE: 8/13/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
P-10

PLAN

EASEMENT SIDEWALK

CITY OF MADISON

124+00

125+00

316+00

315+00

19

19

20

20

21

21

10'

10' ASPHALT PATH

5'

10'

5'

1.5%

4.4%

SEE SHEETS P-5 AND P-7
FOR SIDEWALK GRADES
AT BACK OF KEYSTONES

10'

BIKE PATH &
PEDESTRIAN
EASEMENT

8-IN DI (200

8" SS

SILVERSTONE LN.

8-IN DI (2006)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-PnP-EasementSW.dgn

DATE: 8/13/2015

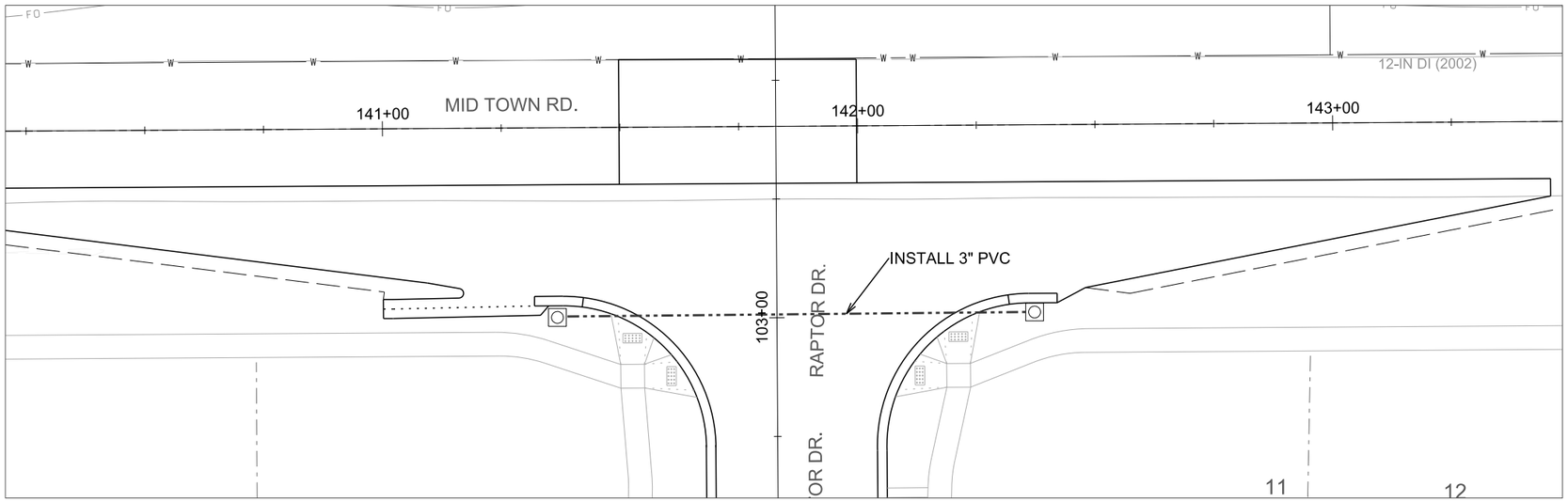
PLOT SCALE: 20.0000 sf / In.

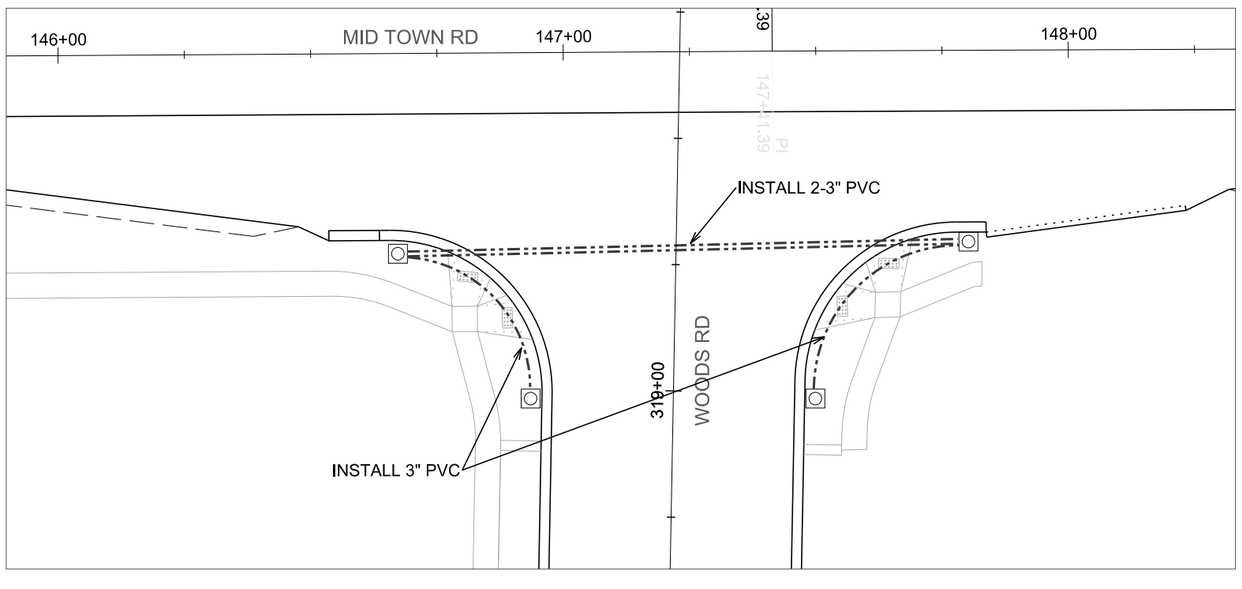
PROJ. NO. 53B2271 | SHEET NO. E1

ELECTRICAL PLANS

MID TOWN RD, RAPTOR DR
WOODS RD

CITY OF MADISON





LEGEND

- ELECTRICAL HANDHOLE TYPE I
- INSTALL PVC (SIZE NOTED)

GENERAL ELECTRIC NOTES:

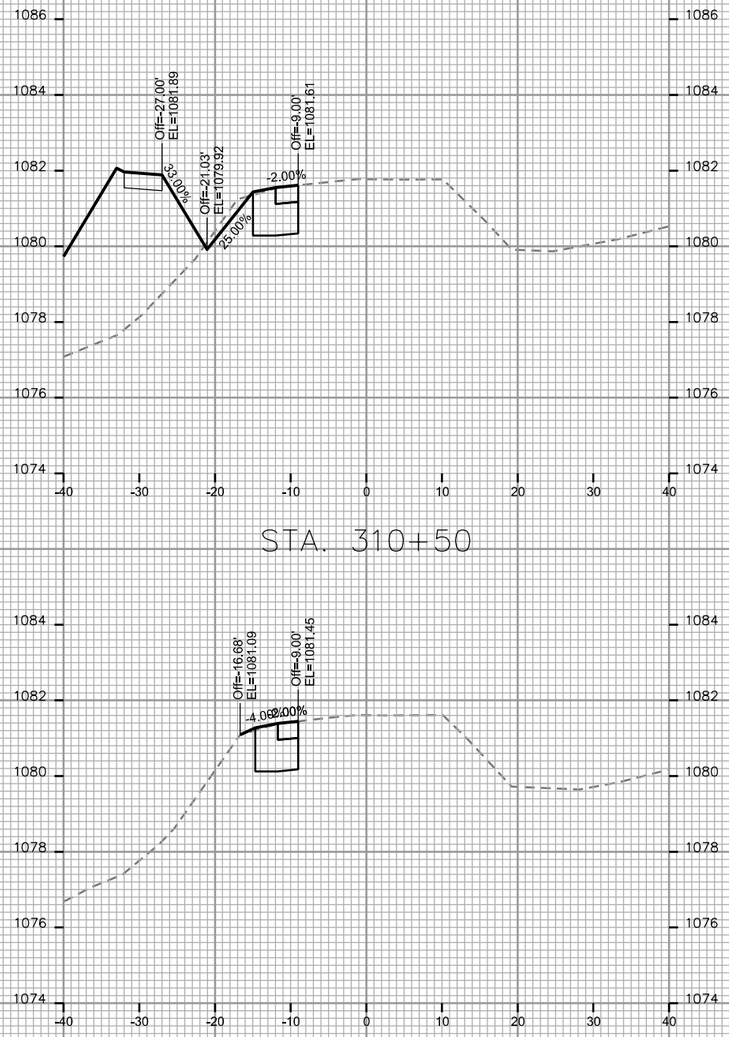
1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK, IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY BRIAN SMITH 608-261-9625, CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
2. 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.
3. THE CONTRACTOR SHALL CALL MIKE CHRISTOPH (266-9031) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.

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

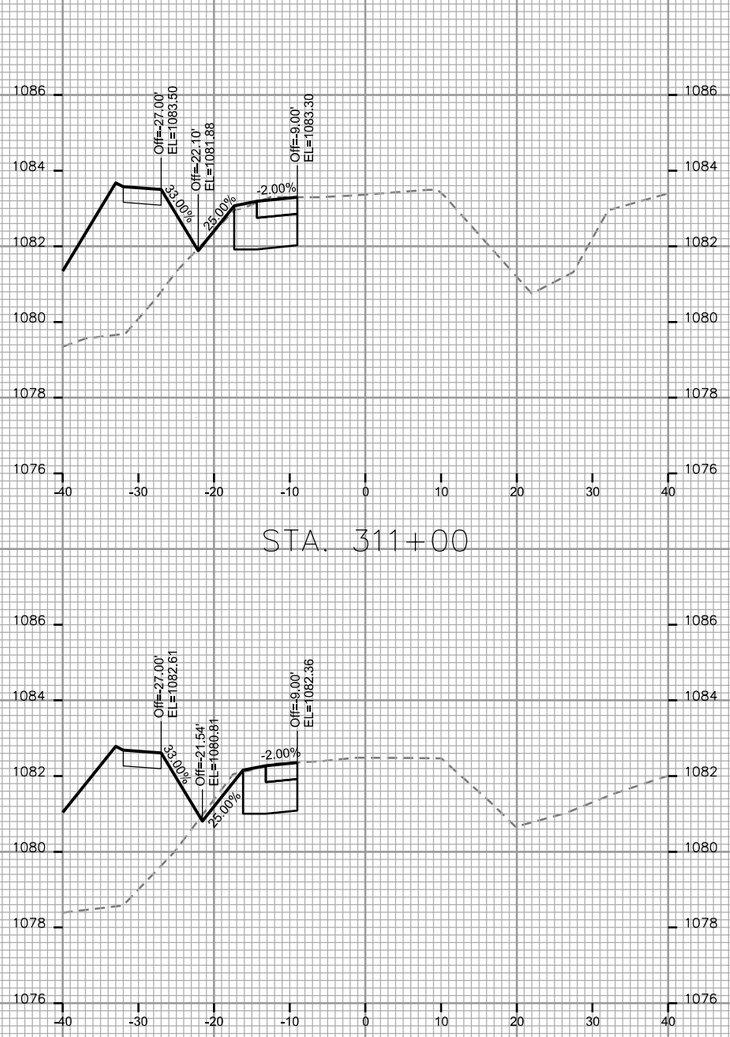
FILE NAME: $$....designfile....$$

DATE: $$...plottingdate...$$

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-1
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



STA. 310+50



STA. 311+00

STA. 310+44

STA. 310+75

PLOT SCALE: ____

PLOT NAME: ____

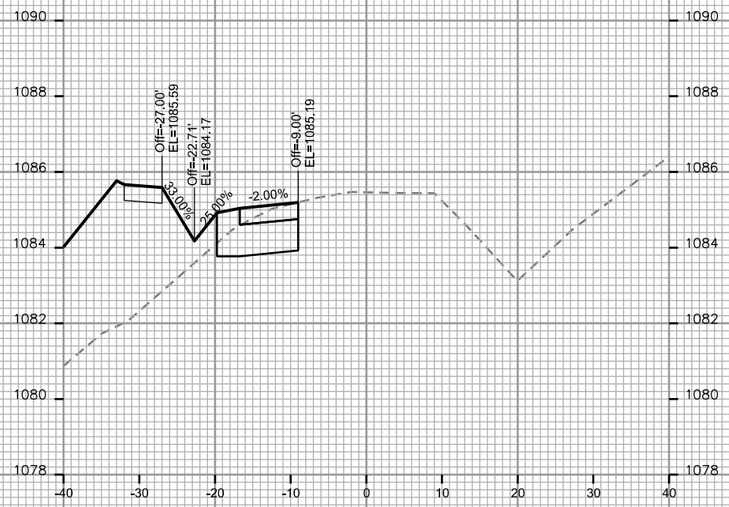
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

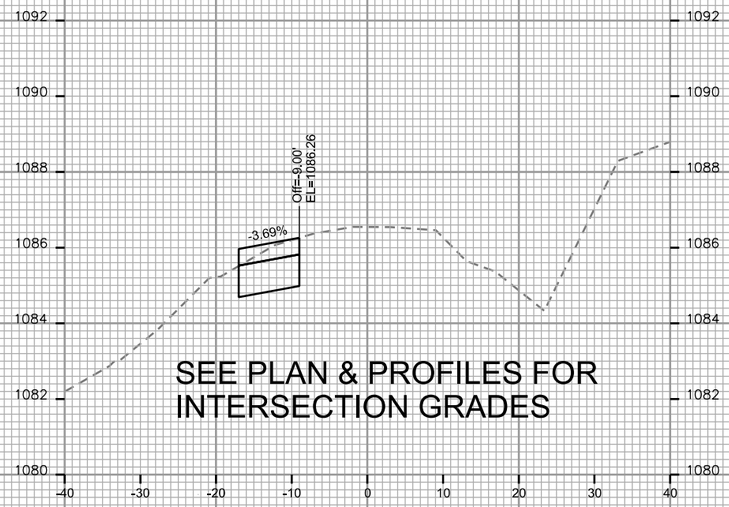
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-2
CROSS SECTIONS	
WOODS RD	CITY OF MADISON

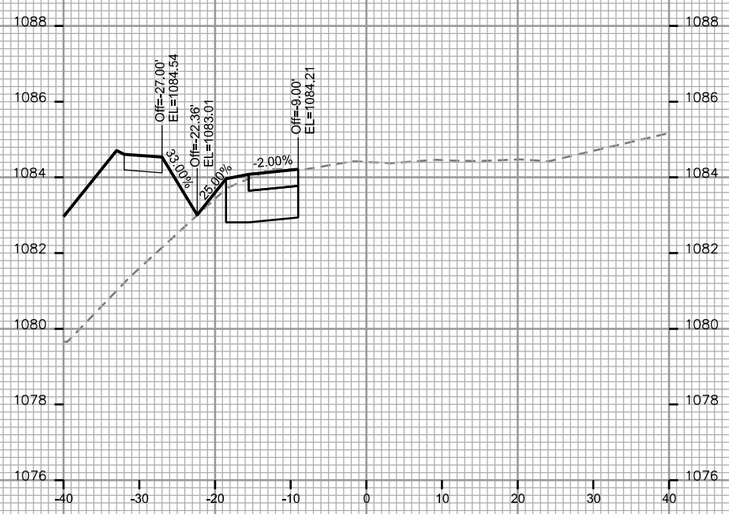


STA. 311+50

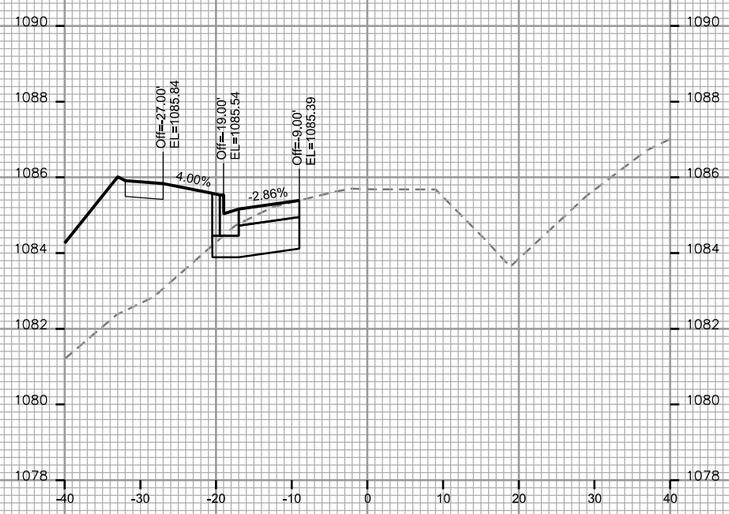


SEE PLAN & PROFILES FOR
INTERSECTION GRADES

STA. 311+75



STA. 311+25



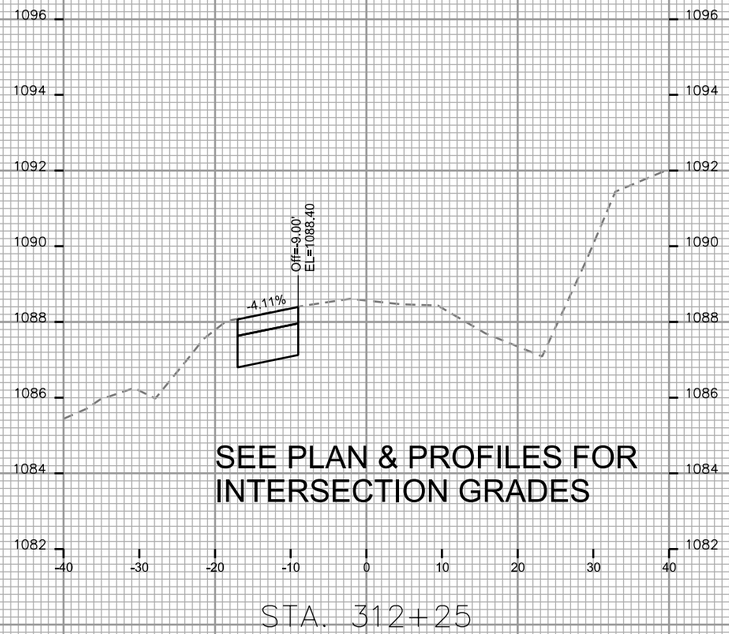
STA. 311+56

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

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

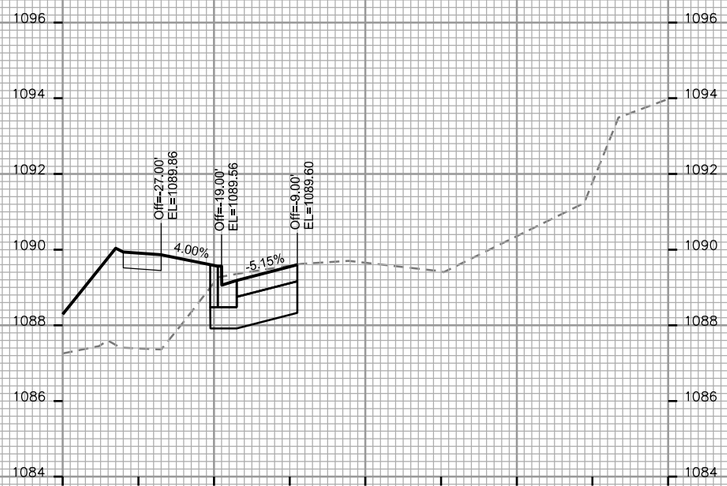
DATE: 6/11/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-3
CROSS SECTIONS	
WOODS RD	CITY OF MADISON

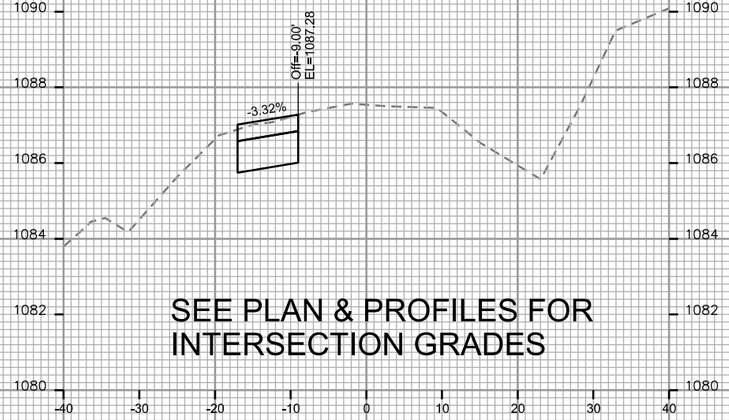


SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 312+25

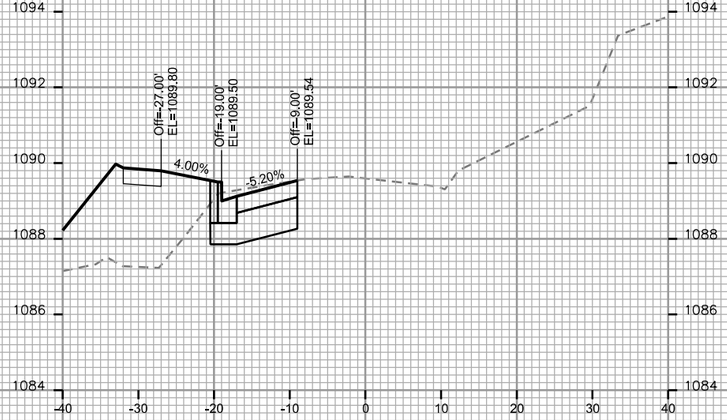


STA. 312+52



SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 312+00



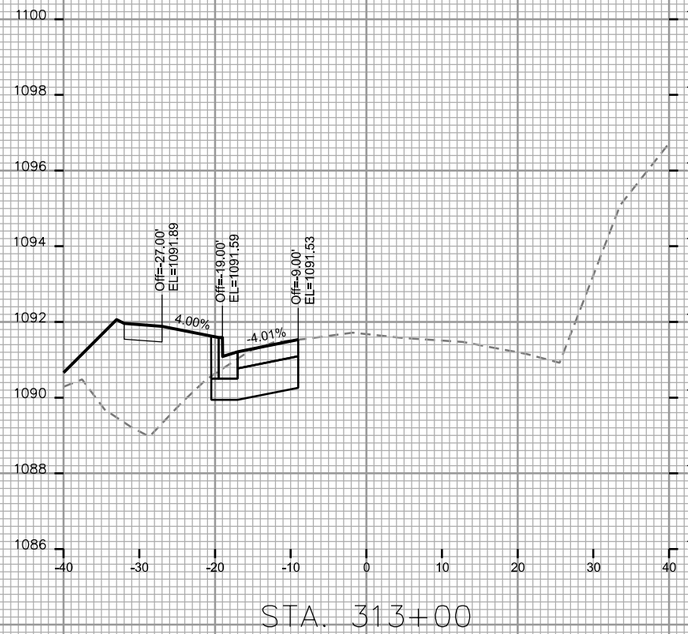
STA. 312+50

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

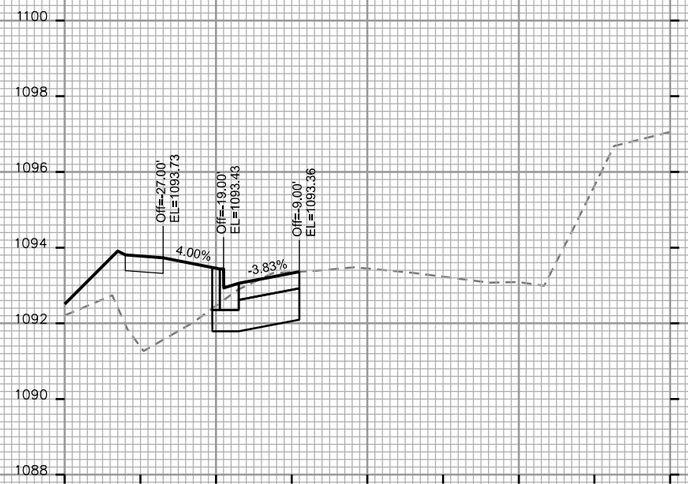
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

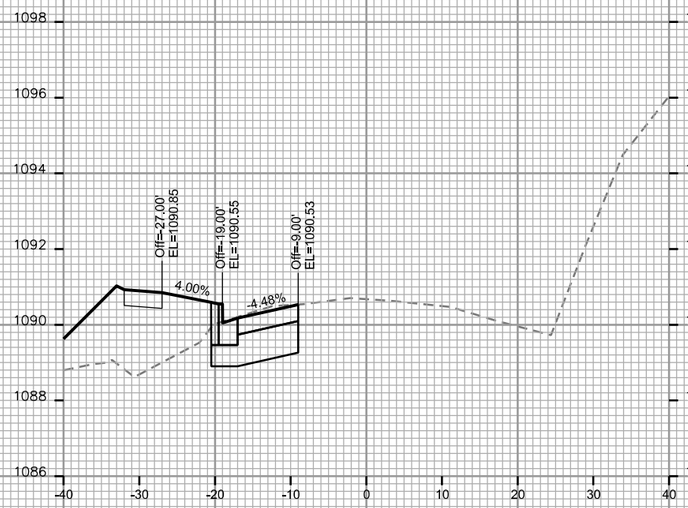
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-4
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



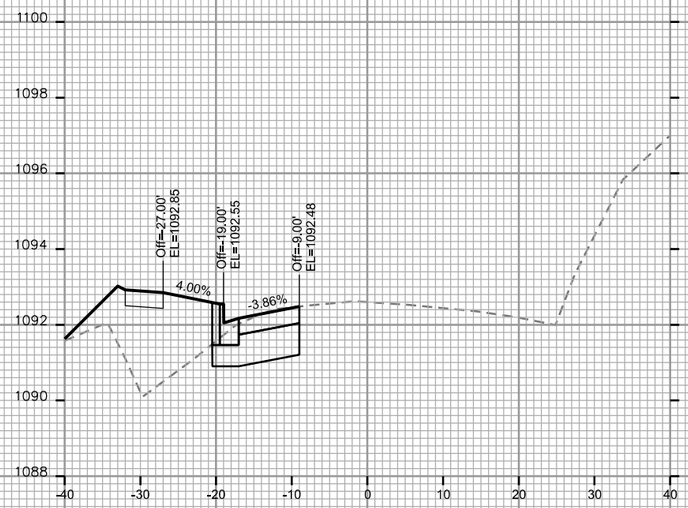
STA. 313+00



STA. 313+50



STA. 312+75



STA. 313+25

FT

FT

PLOT SCALE: ——

PLOT NAME: ——

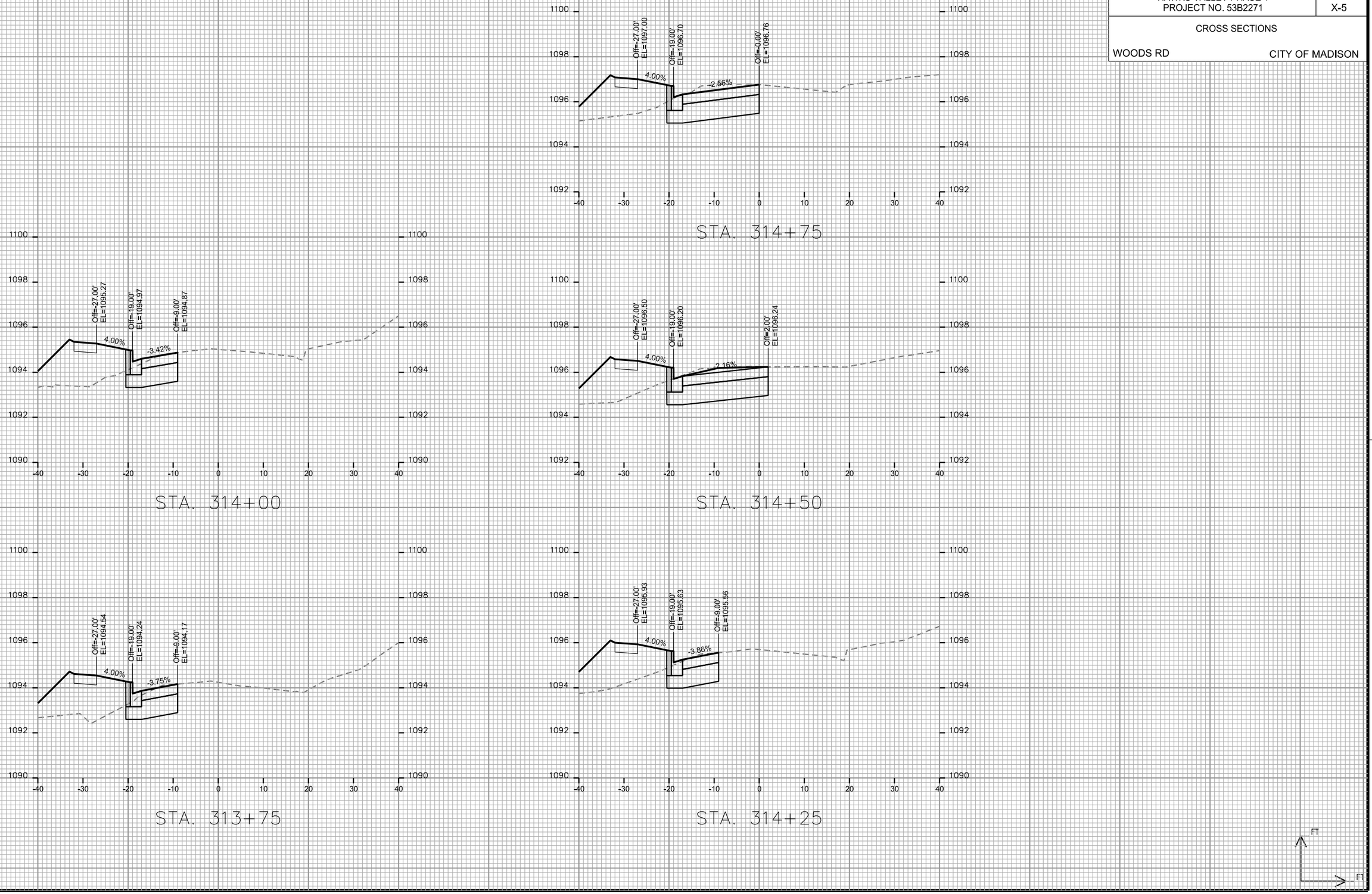
REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-5
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



PLOT SCALE: ____

PLOT NAME: ____

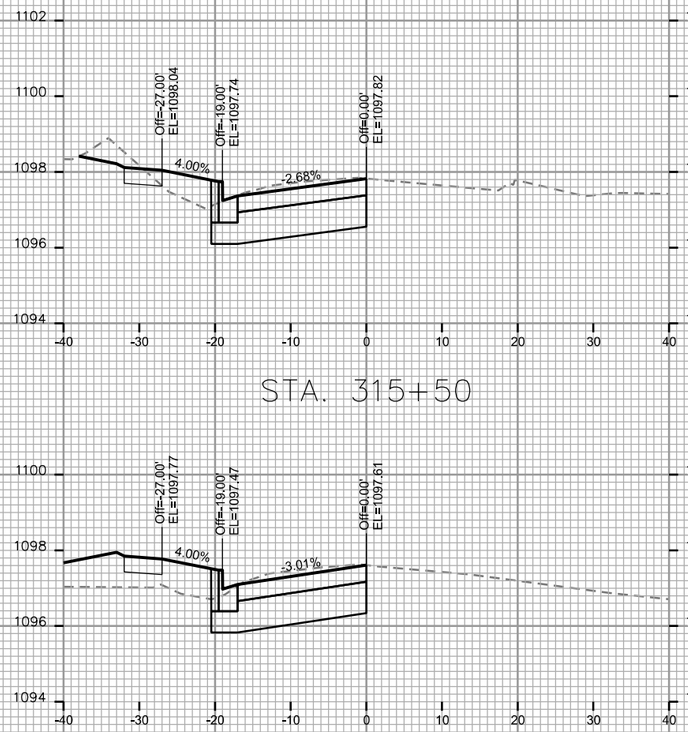
REV. DATE: ____

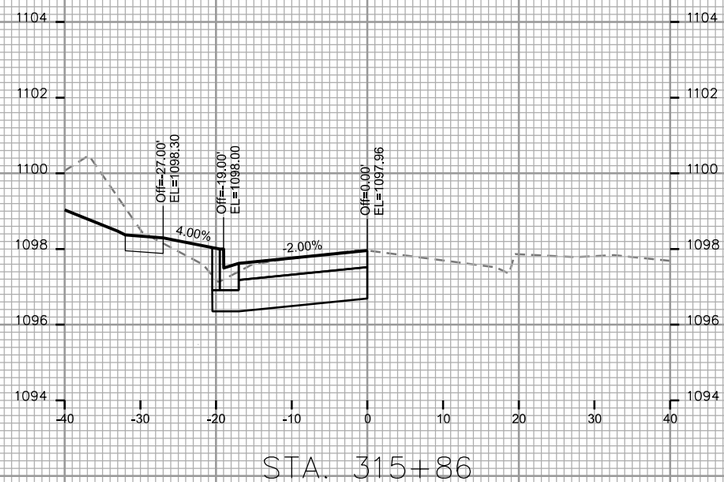
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

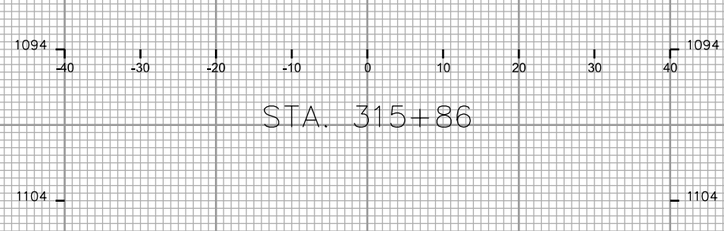
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

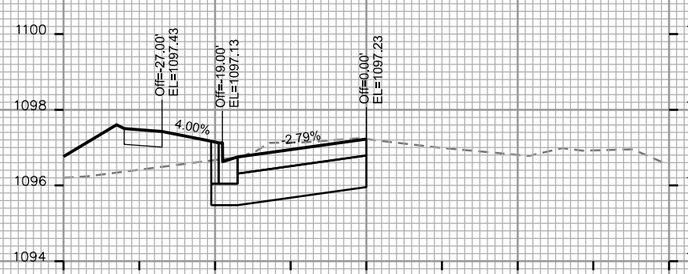
DATE: 6/11/2015

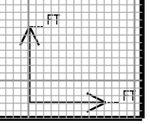
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-6
CROSS SECTIONS	
WOODS RD	CITY OF MADISON











PLOT SCALE: ____

PLOT NAME: ____

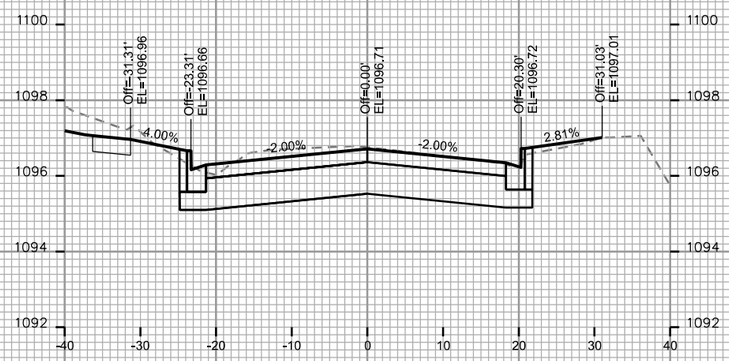
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

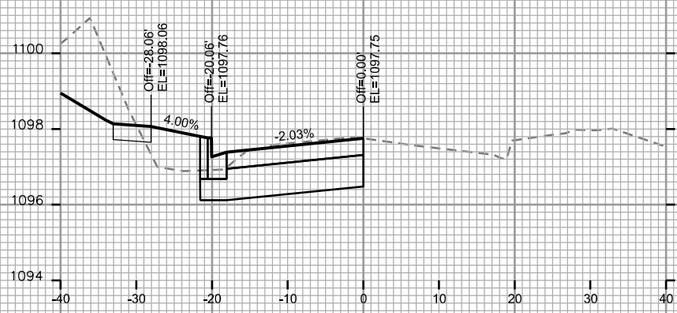
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

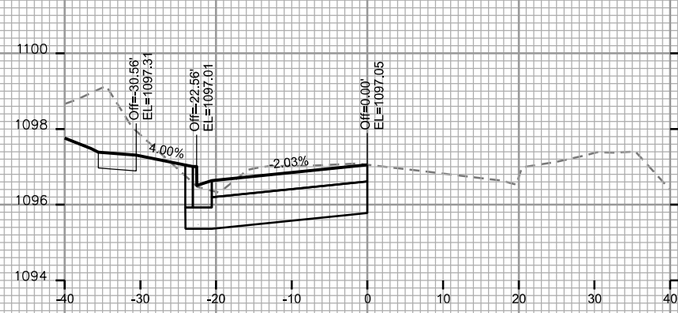
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-7
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



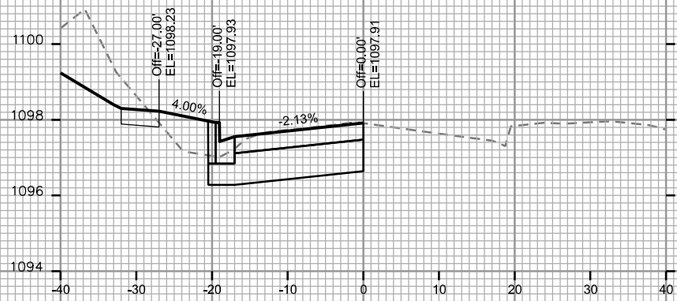
STA. 316+90



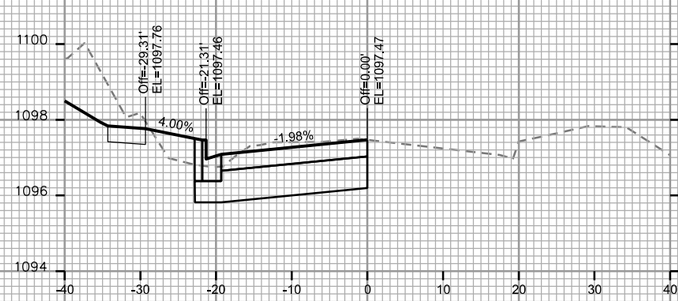
STA. 316+25



STA. 316+75



STA. 316+00



STA. 316+50

PLOT SCALE: ____

PLOT NAME: ____

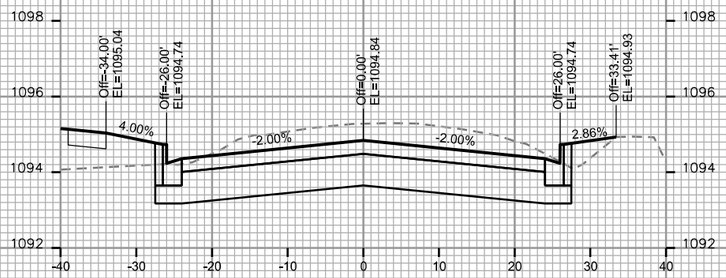
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

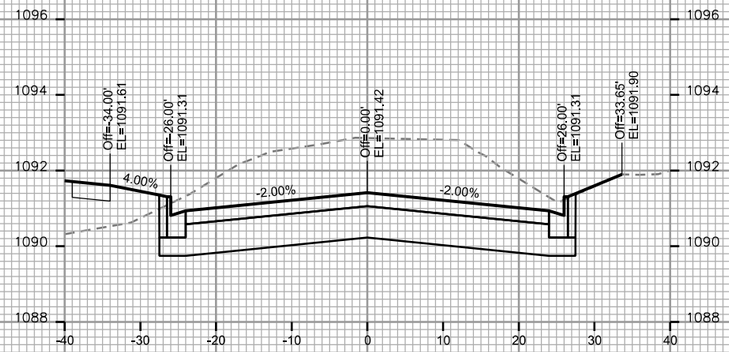
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

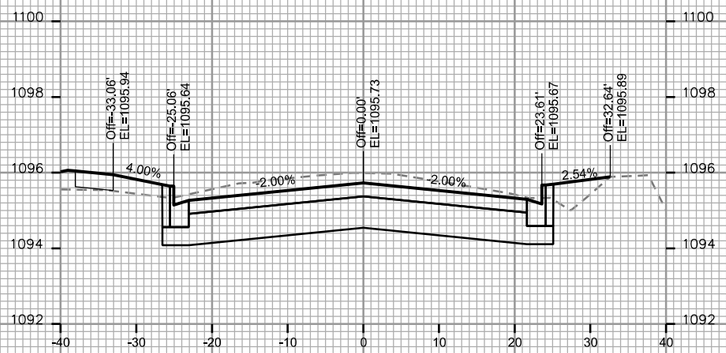
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-8
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



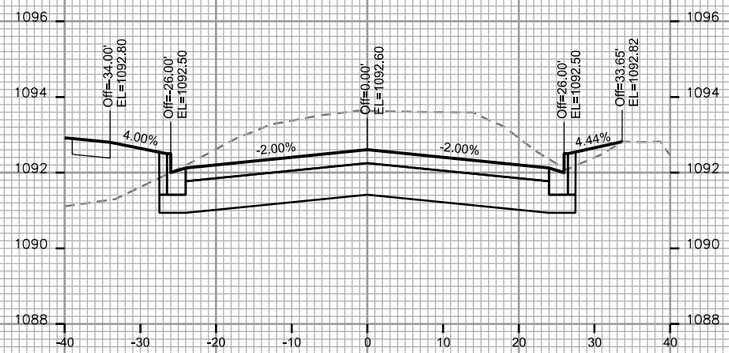
STA. 317+50



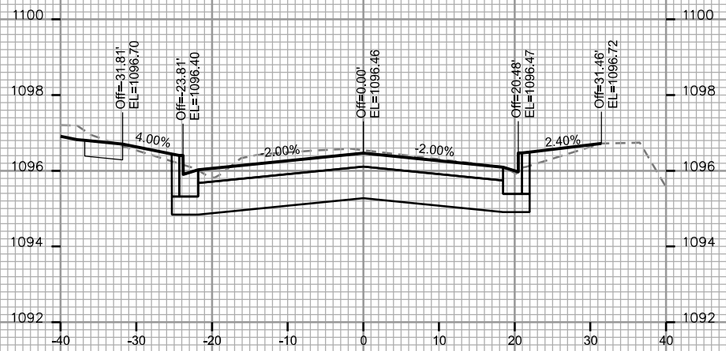
STA. 318+25



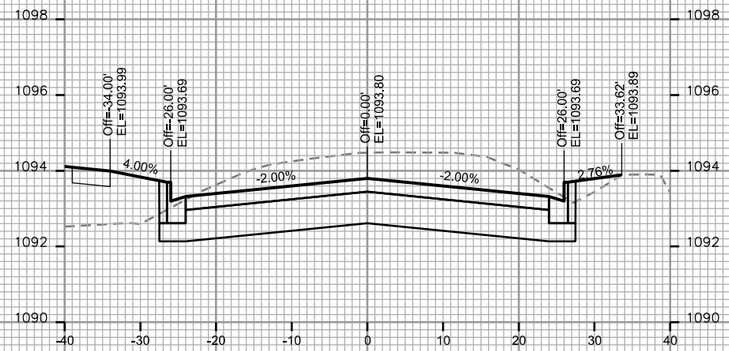
STA. 317+25



STA. 318+00



STA. 317+00



STA. 317+75

FT

FT

PLOT SCALE: ____

PLOT NAME: ____

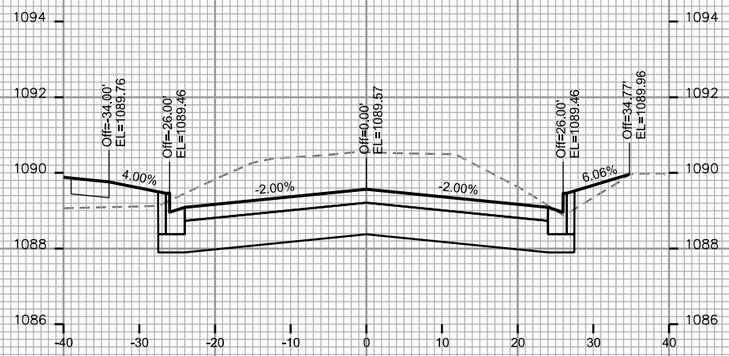
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

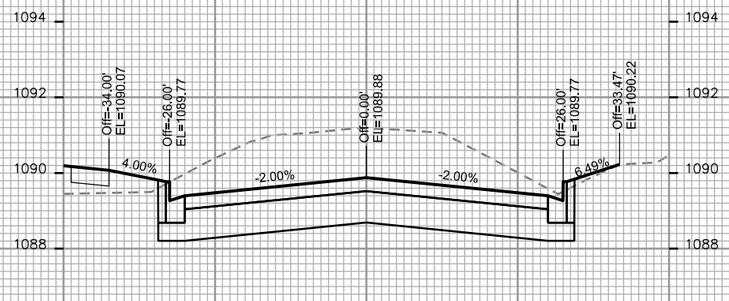
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

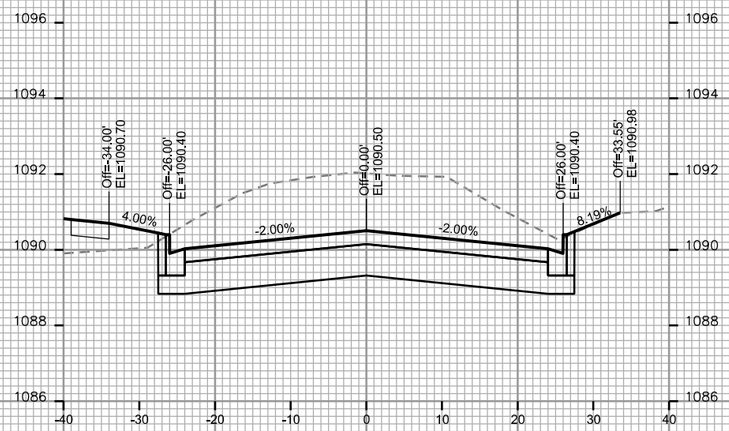
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-9
CROSS SECTIONS	
WOODS RD	CITY OF MADISON



STA. 318+99



STA. 318+75



STA. 318+50

PLOT SCALE: ____

PLOT NAME: ____

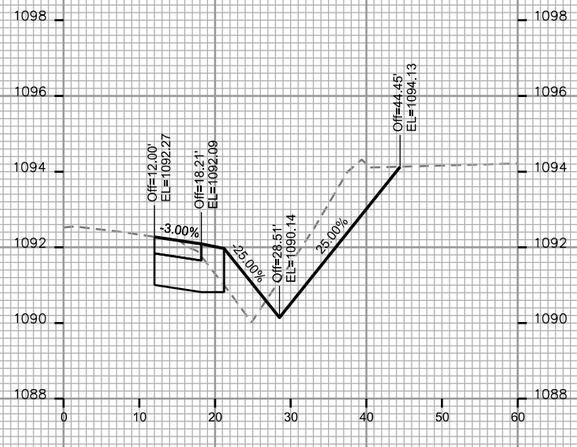
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

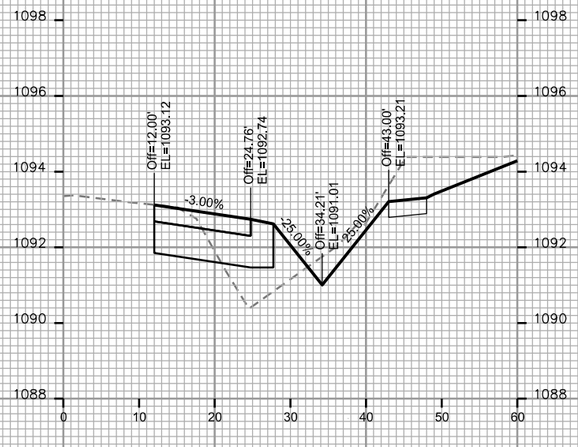
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionWoods.dgn

DATE: 6/11/2015

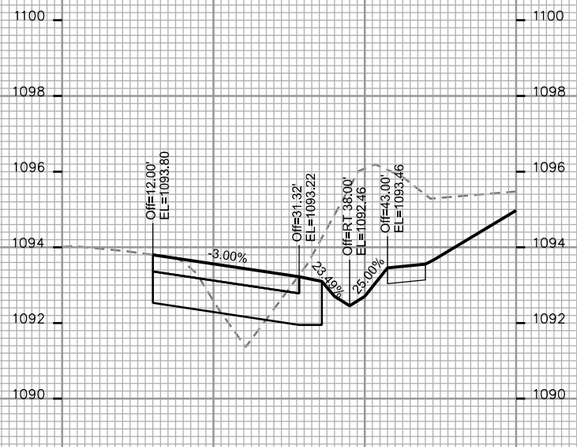
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-10
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON



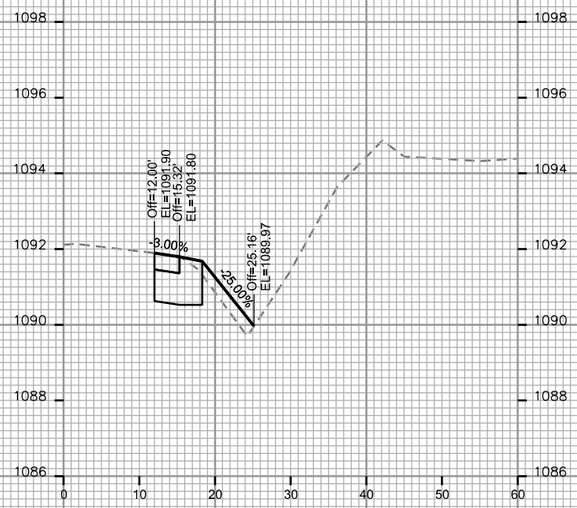
STA. 140+00



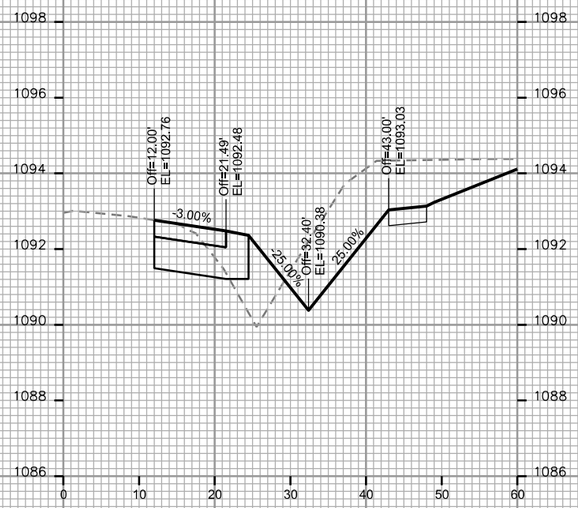
STA. 140+50



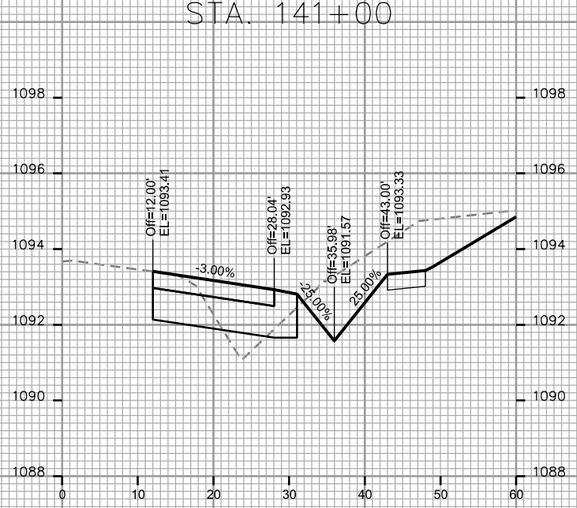
STA. 141+00



STA. 139+78



STA. 140+25



STA. 140+75

PLOT SCALE: ____

PLOT NAME: ____

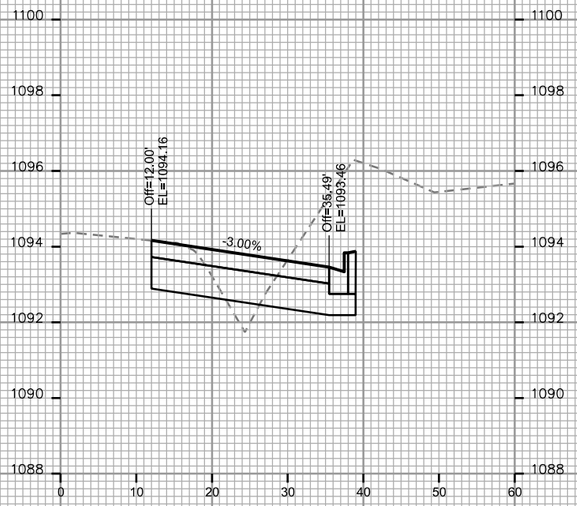
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

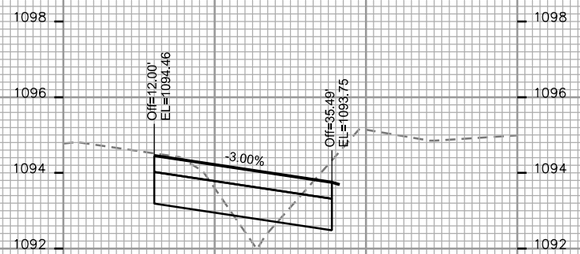
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

DATE: 6/11/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-11
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON

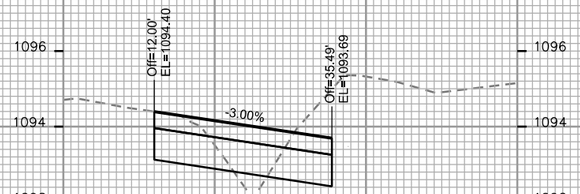


STA. 141+32



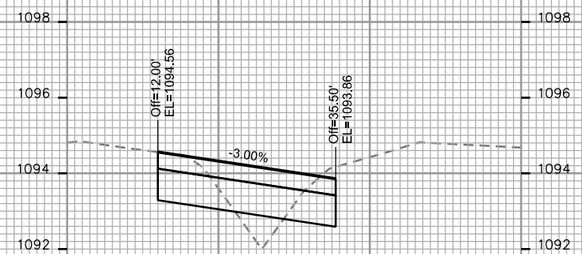
SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 141+87



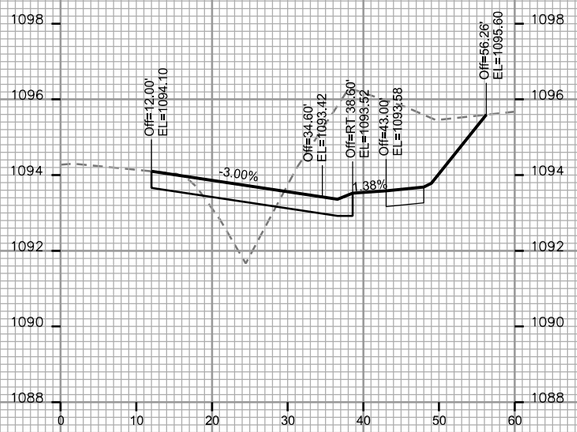
SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 141+75

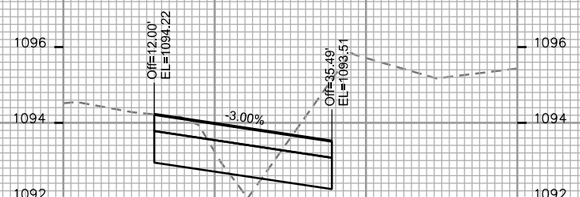


SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 142+25

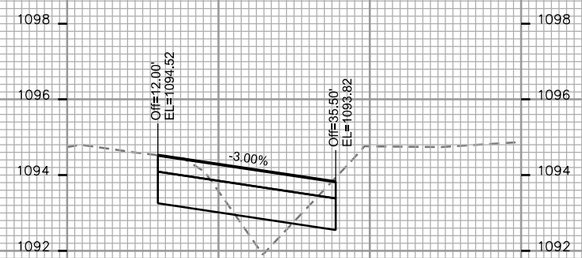


STA. 141+25



SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 141+50



SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 142+00

FT

FT

PLOT SCALE: ____

PLOT NAME: ____

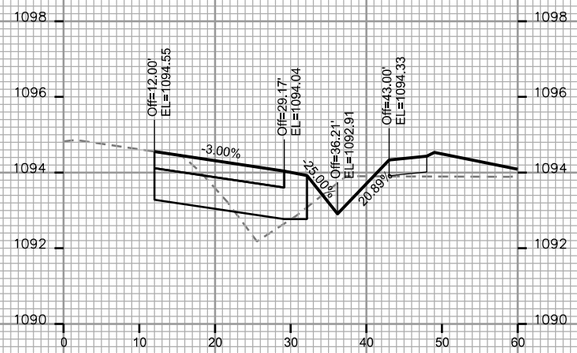
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

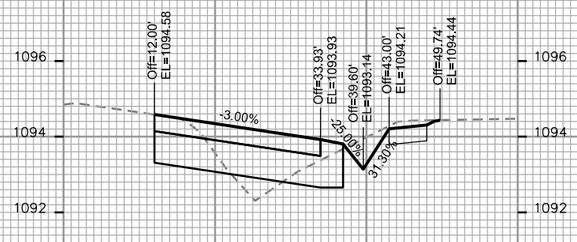
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

DATE: 6/11/2015

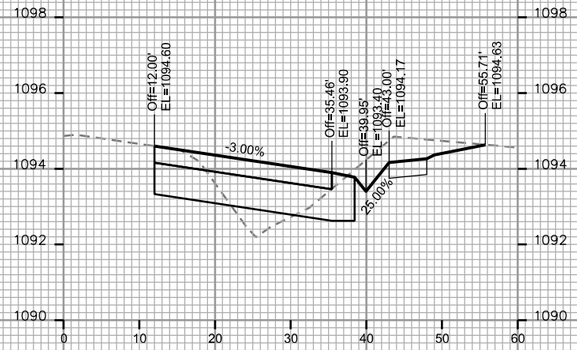
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-12
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON



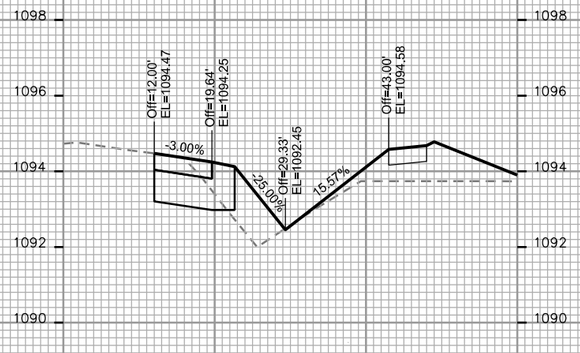
STA. 142+75



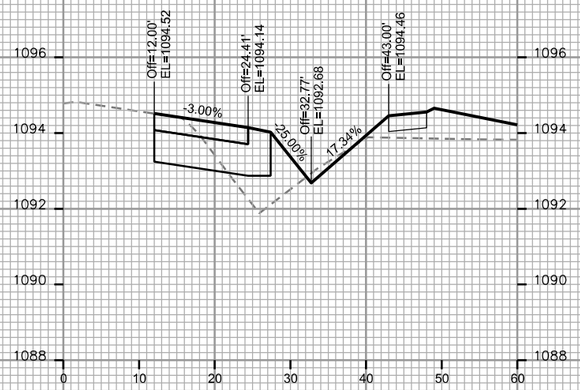
STA. 142+50



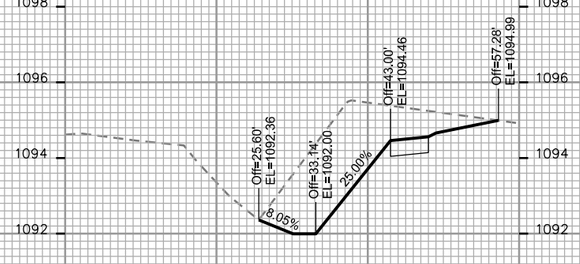
STA. 142+42



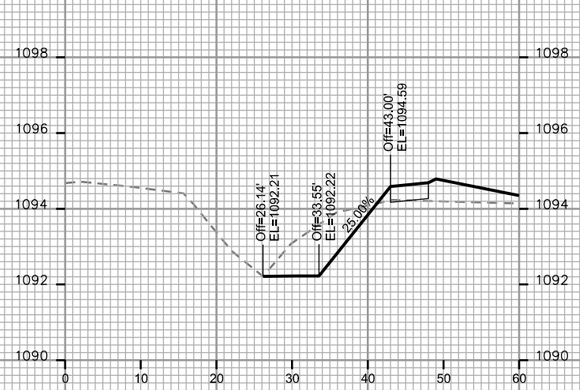
STA. 143+25



STA. 143+00



STA. 143+75



STA. 143+50

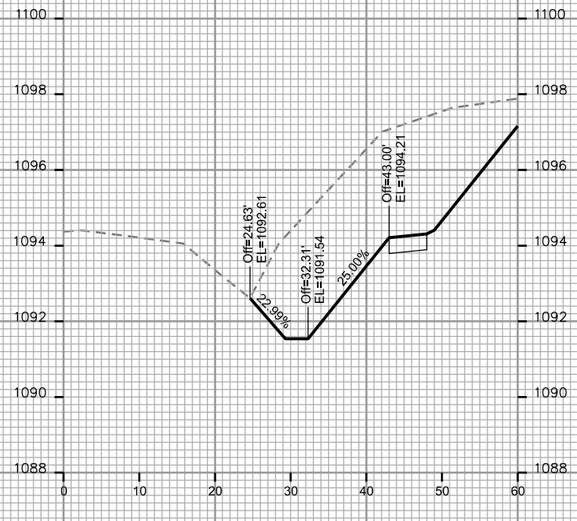
FT
FT

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

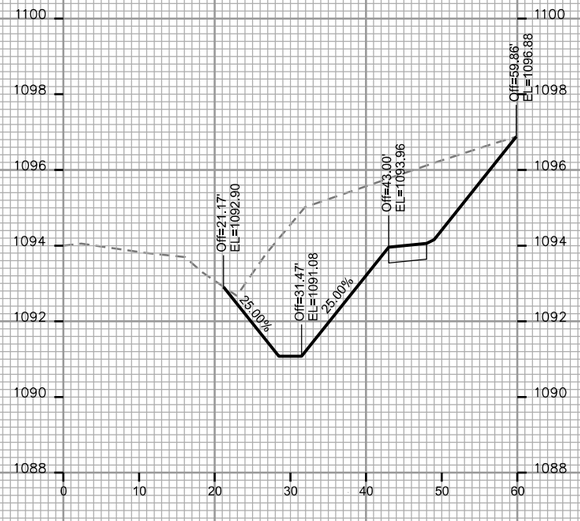
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMidtown.dgn

DATE: 6/11/2015

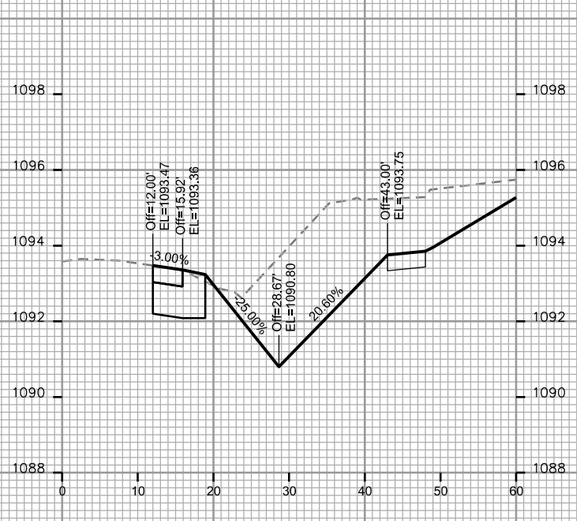
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-13
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON



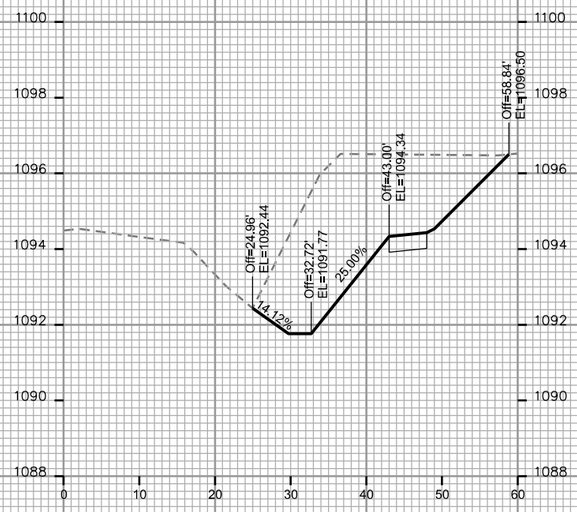
STA. 144+25



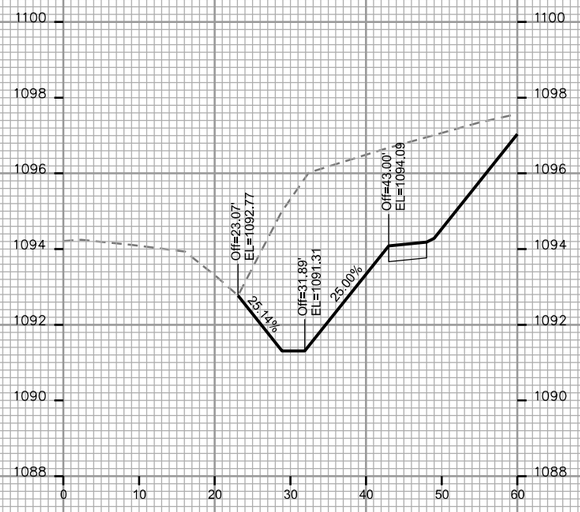
STA. 144+75



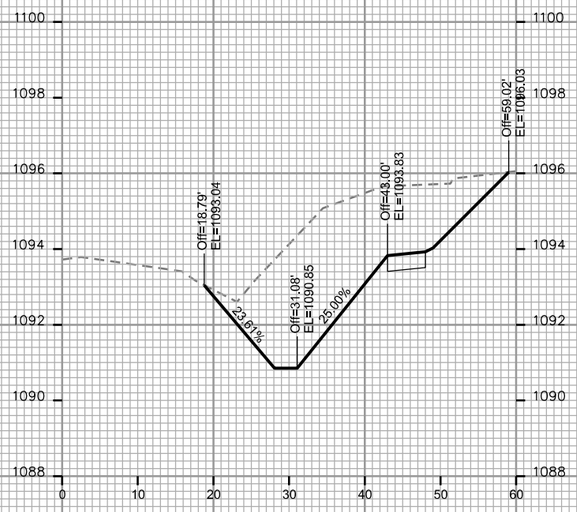
STA. 145+10



STA. 144+00



STA. 144+50



STA. 145+00

PLOT SCALE: ____

PLOT NAME: ____

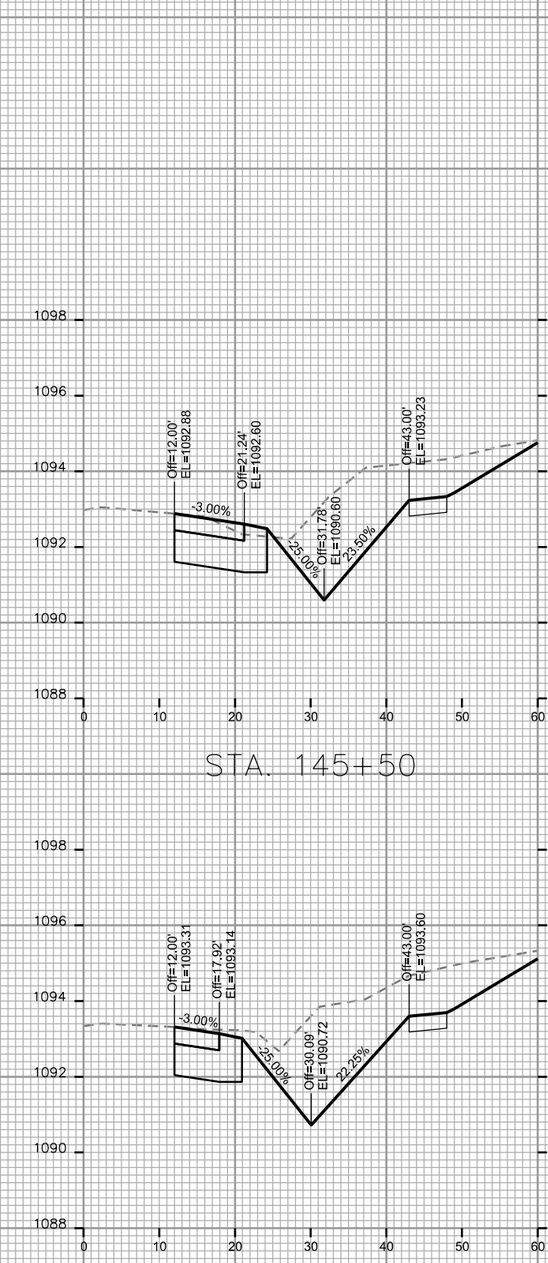
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

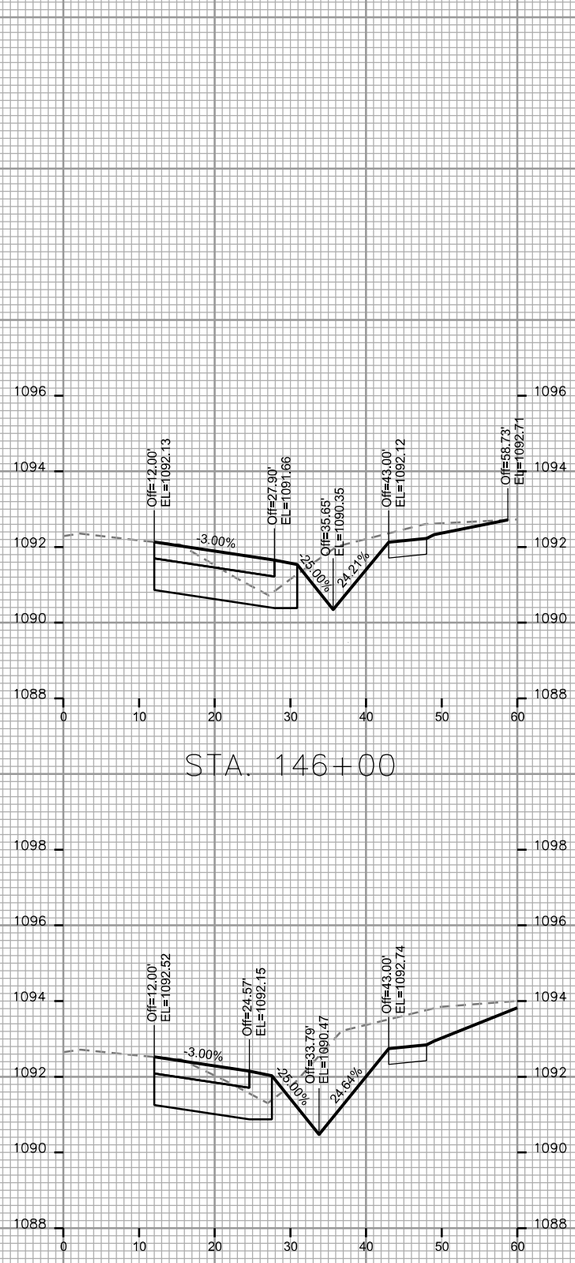
DATE: 6/11/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-14
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON



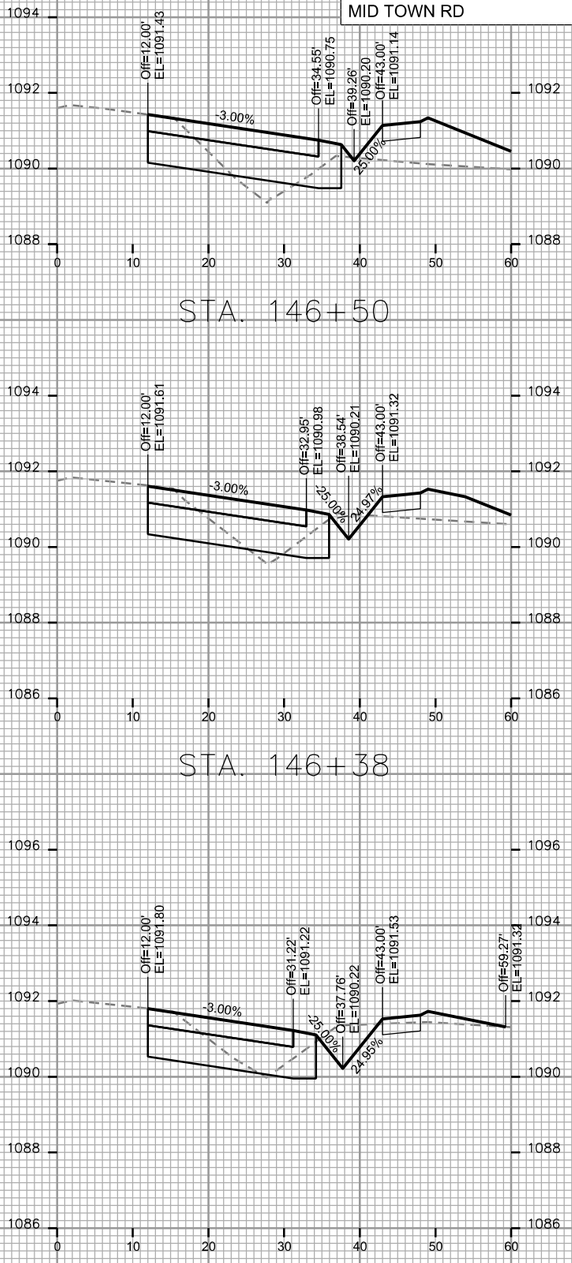
STA. 145+50

STA. 145+25



STA. 146+00

STA. 145+75



STA. 146+50

STA. 146+38

STA. 146+25

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

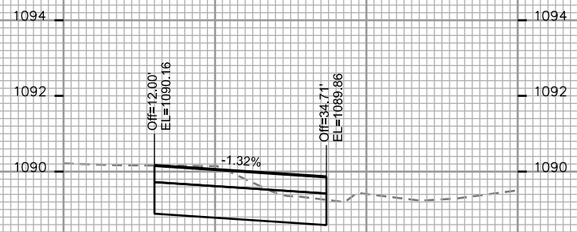
DATE: 6/11/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
X-15

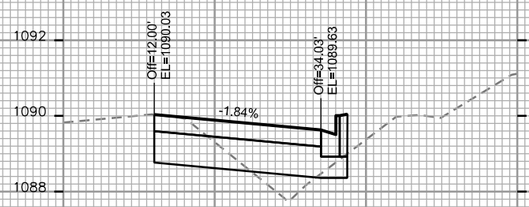
CROSS SECTIONS

MID TOWN RD — CITY OF MADISON



SEE PLAN & PROFILES FOR INTERSECTION GRADES

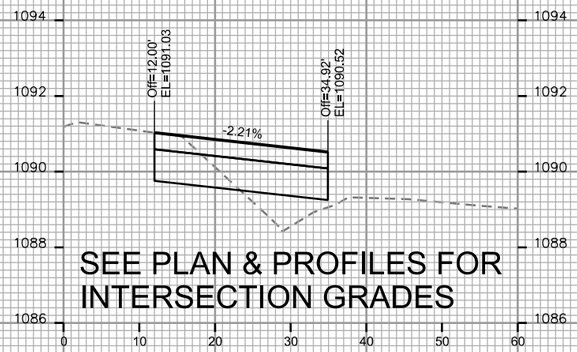
STA. 147+00



SEE PLAN & PROFILES FOR INTERSECTION GRADES

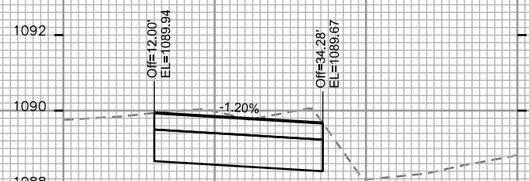
STA. 147+75

STA. 148+00



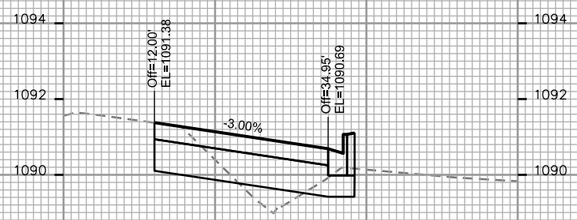
SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 146+75

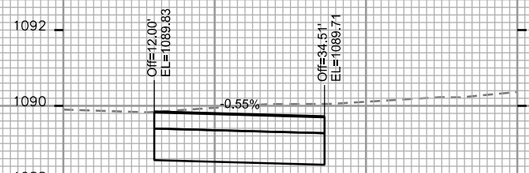


SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 147+50

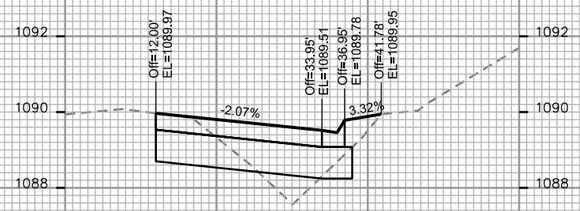


STA. 146+53



SEE PLAN & PROFILES FOR INTERSECTION GRADES

STA. 147+25



STA. 147+84

FT

FT

PLOT SCALE: ____

PLOT NAME: ____

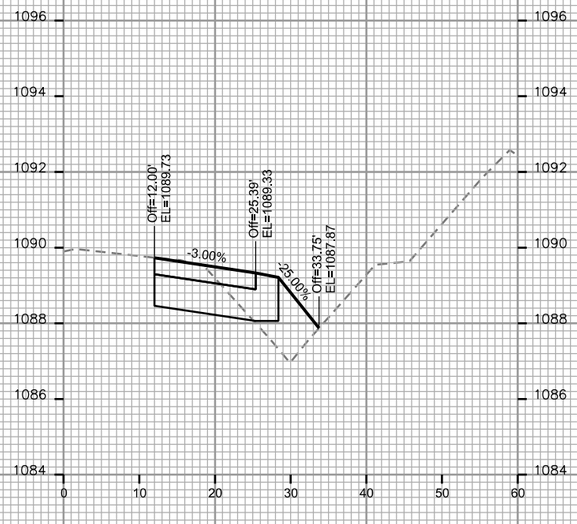
REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

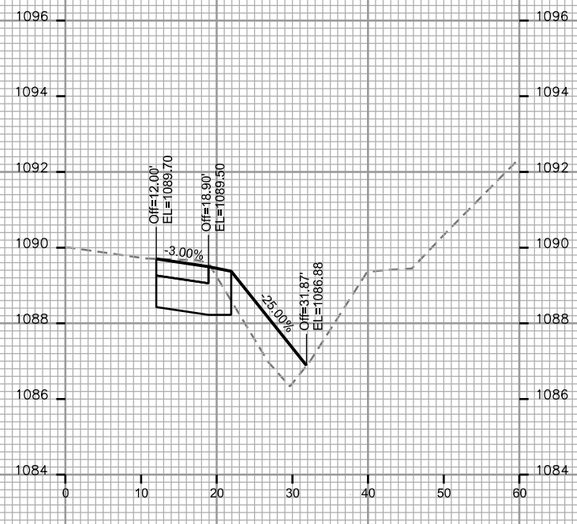
FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

DATE: 6/11/2015

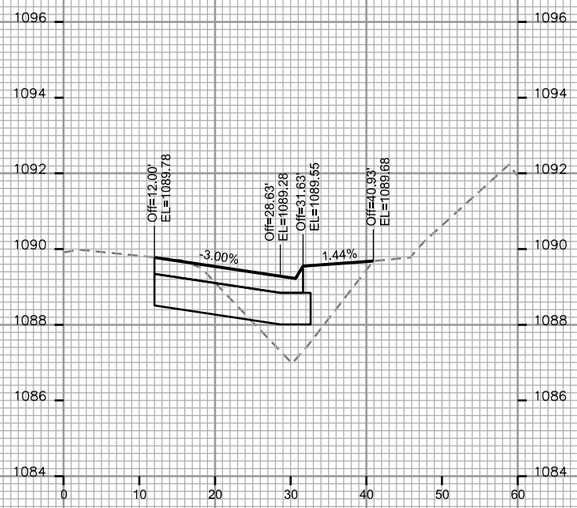
HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. X-16
CROSS SECTIONS	
MID TOWN RD	CITY OF MADISON



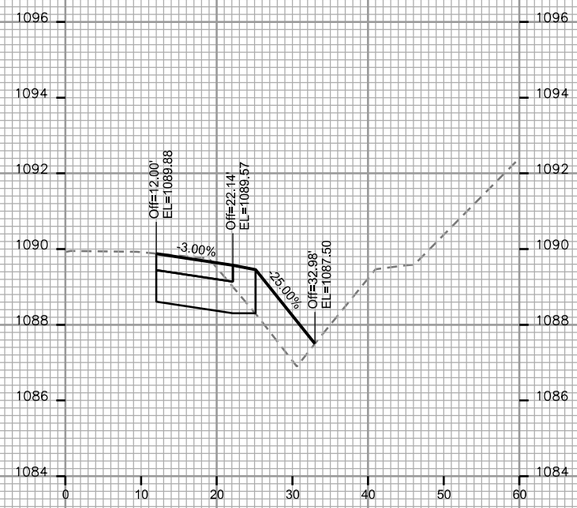
STA. 148+50



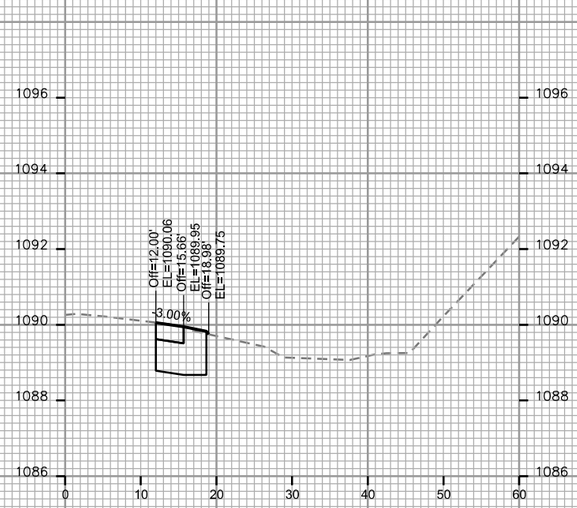
STA. 149+00



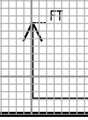
STA. 148+25



STA. 148+75



STA. 149+25



PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Streets\Design\53B2271EN-XSectionMldtown.dgn

DATE: 6/11/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
U-1

UTILITY PLAN AND PROFILE

ASHWORTH DR — CITY OF MADISON

REV. 9/21/2015 KDF

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

54 49 48 38

PHASE 2 LIMITS

OUTFALL CHANNEL TYPICAL SECTION
3:1 18" MIN. 3:1
5'

51+00

50+00

243+34

243+00

TEMPORARY SETTLING BASIN

15+00 16+00 17+00 18+00 19+00 20+00 21+00

MATCHLINE STA 21+00.00

SAS #6

8" STUB

SAS #7

219' - 8" PVC @ 0.50%

100' - 8" PVC @ 0.50%

ASHWORTH DR

S-2

P-1

STONE CHECK DAM

OUTFALL CHANNEL (GRADE TO DRAIN)

24" ST

156.5' - 8" PVC @ 0.50%

TEMPORARY 24" CULVERT FOR ACCESS ROAD (50 LF)

OUTFALL CHANNEL (GRADE TO DRAIN)

PHASE 1 LIMITS

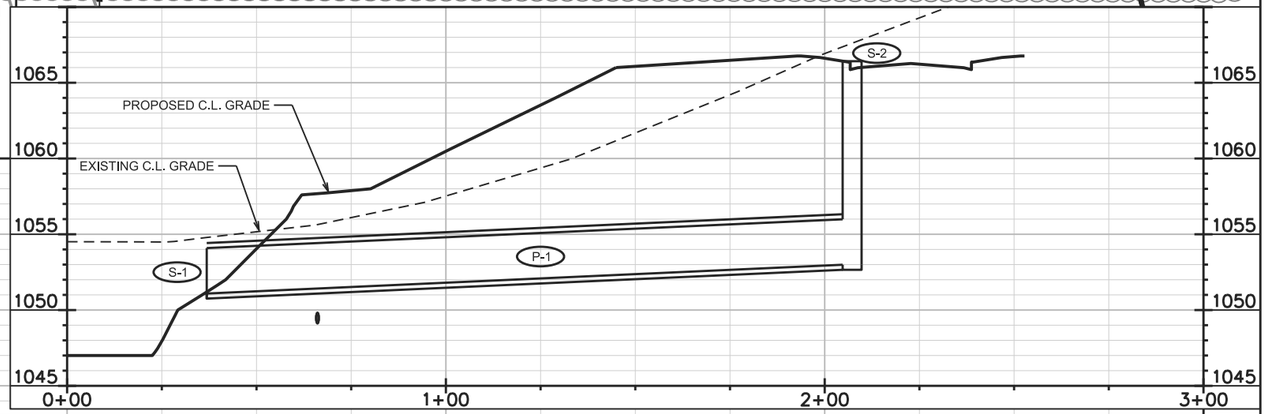
CONSTRUCT SAS ACCESS ROAD PER DETAIL SHEET D-6

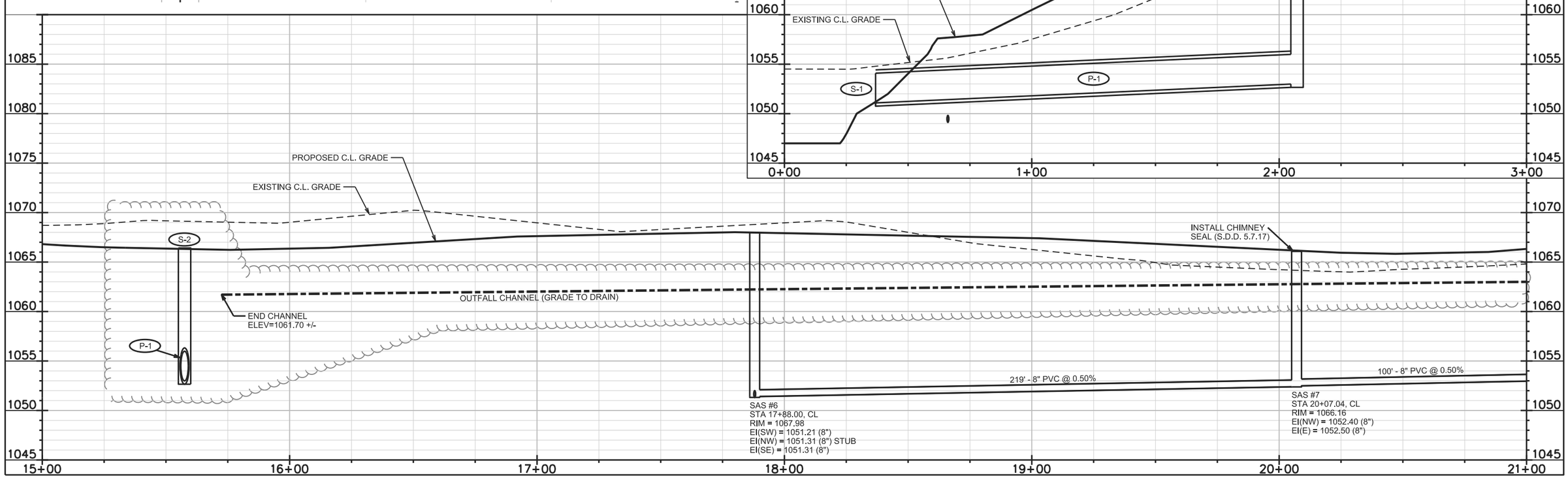
O.L. 2

15' PUBLIC STORM SEWER EASEMENT

7.5' 7.5'

59 60 61 62





FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Ashw-1.dgn

DATE: 9/30/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-2
UTILITY PLAN AND PROFILE	
ASHWORTH DR	CITY OF MADISON

REV. 9/21/2015 KDF

MATCHLINE STA 21+00.00

97+00

120' - 8" PVC @ 6.50%

OUTFALL CHANNEL (GRADE TO DRAIN)

TEMPORARY 15" CULVERT FOR ACCESS ROAD (25 LF)

CONSTRUCT SAS ACCESS ROAD PER DETAIL SHEET D-6

SAS #8

96+00

100' - 8" PVC @ 1.00%

22+00

SAS #9

254' - 8" PVC @ 5.50%

23+00

24+00

ASHWORTH DR

S-6

P-6

S-7

OUTFALL CHANNEL (GRADE TO DRAIN)

10' X 10' RIP RAP DISCHARGE POOL

170' - 8" PVC @ 0.50%

RAPTOR DR

SWAINSON DR

235' - 8" PVC @ 3.50%

127+00

SAS #11

S-30A

P-30A

S-30

P-30

75' - 8" PVC @ 1.00%

S-31A

P-31A

S-31

P-31

S-9A

P-9A

PROPOSED WATER (SEE WATER PLAN)

25+00

130' - 8" PVC @ 3.50%

SAS #10

26+00

SAS #10A

P-10

S-11

S-10

WOODS RD

312+00

311+58

27+00

27+09

128+00

128+15

P-7

S-8

P-8

S-9

P-9

18" MIN.

3:1

3:1

5'

OUTFALL CHANNEL TYPICAL SECTION

PHASE 2

PHASE 1

37

24

23

68

69

70

71

72

73

74

1085
1080
1075
1070
1065
1060
1055
1050
1045

INSTALL CHIMNEY SEAL (S.D.D. 5.7.17)

INSTALL CHIMNEY SEAL (S.D.D. 5.7.17)

OUTFALL CHANNEL (GRADE TO DRAIN)

100' - 8" PVC @ 1.00%

SAS #8
STA 21+07.20, CL
RIM = 1066.43
EI(W) = 1053.00 (8")
EI(N) = 1053.10 (8")
EI(E) = 1053.10 (8")
EI(S) = 1053.10 (8") STUB

SAS #9
STA 22+07.37, CL
RIM = 1066.26
EI(W) = 1054.10 (8")
EI(E) = 1054.20 (8")

254' - 8" PVC @ 5.50%

PROPOSED WATER (SEE WATER PLAN)

SAS #10
STA 24+61.37, CL
RIM = 1080.32
EI(W) = 1068.17 (8")
EI(N) = 1068.27 (8")
EI(E) = 1068.27 (8")

130' - 8" PVC @ 3.50%

SAS #10A
STA 25+91.37, CL
RIM = 1085.82
EI(W) = 1072.82 (8")

21+00
22+00
23+00
24+00
25+00
26+00
27+00

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Ashw-2.dgn

DATE: 9/30/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-3
UTILITY PLAN AND PROFILE	
RAPTOR DR	CITY OF MADISON

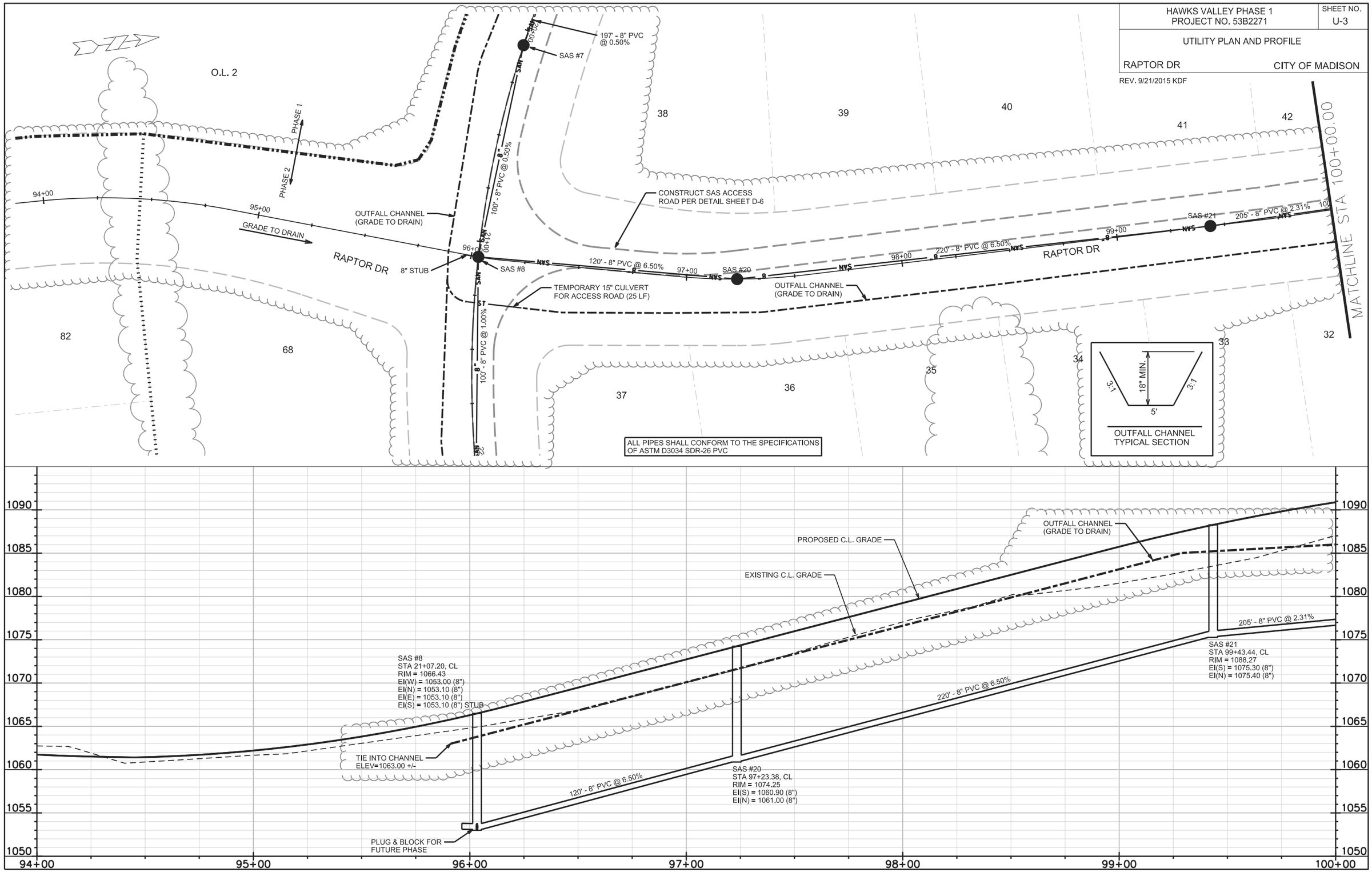
REV. 9/21/2015 KDF

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

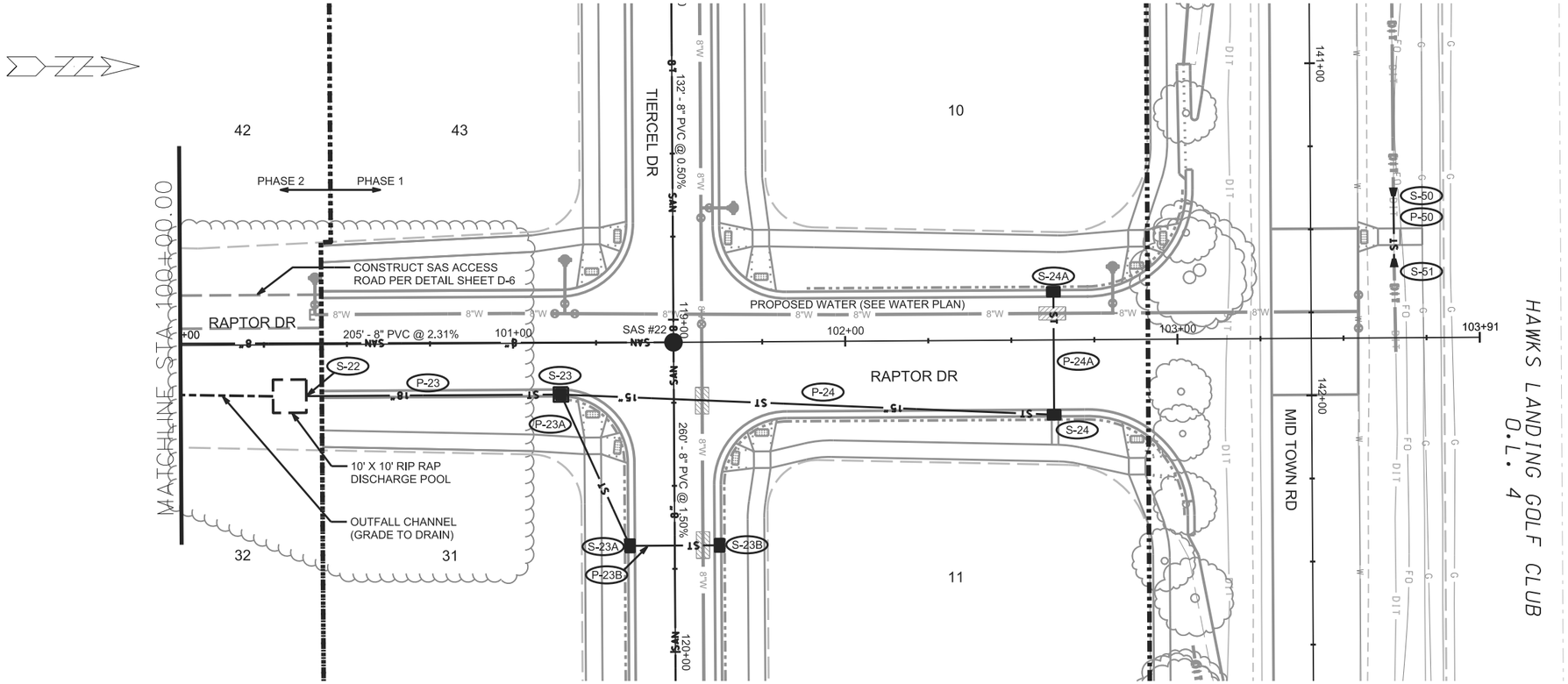


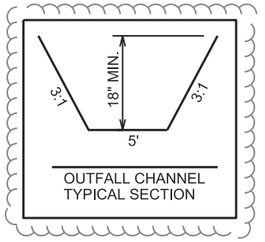
FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Rapt-1.dgn

DATE: 9/30/2015

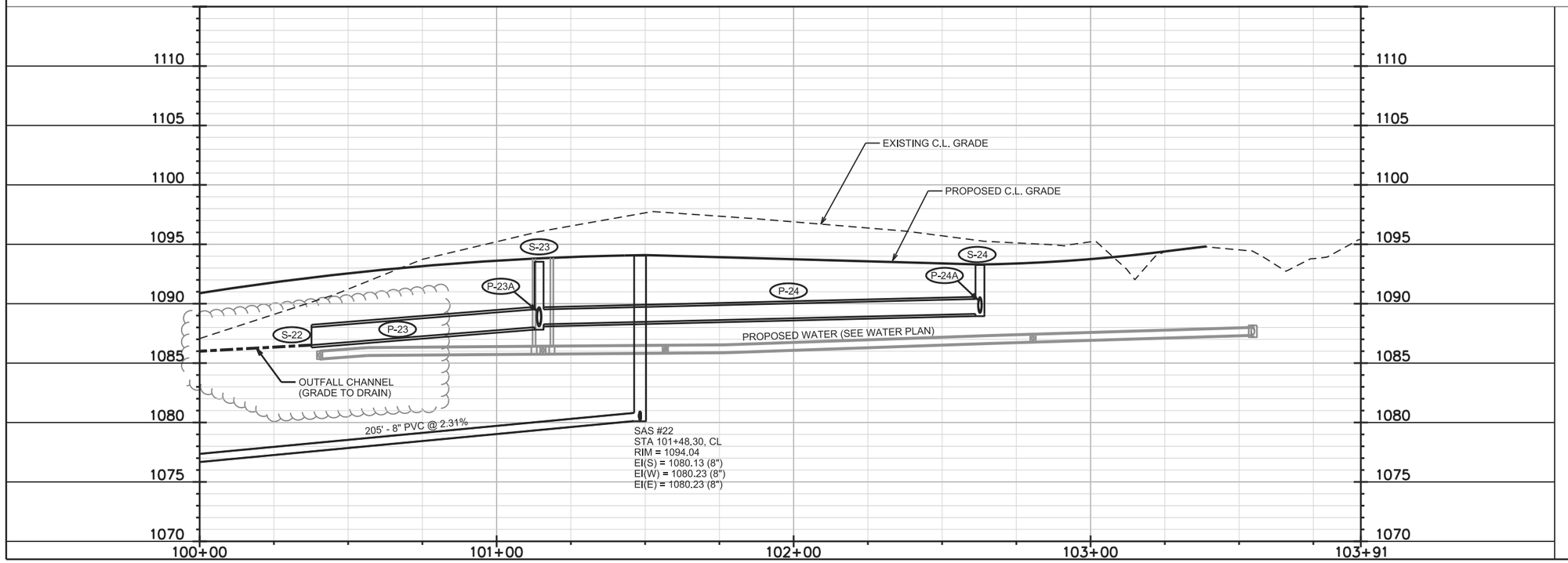
HAWK'S VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-4
UTILITY PLAN AND PROFILE	
RAPTOR DR	CITY OF MADISON

REV. 9/21/2015 KDF





ALL PIPES SHALL CONFORM TO THE SPECIFICATIONS OF ASTM D3034 SDR-26 PVC



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Rapt-2.dgn

DATE: 9/30/2015

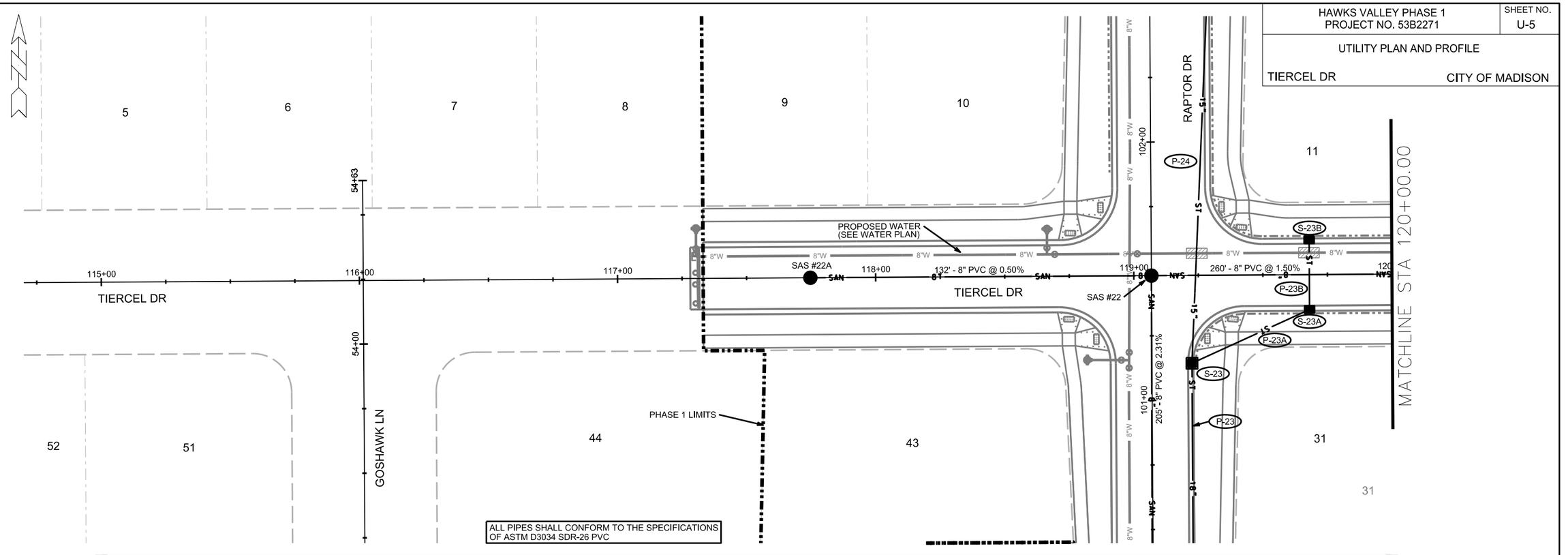
HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

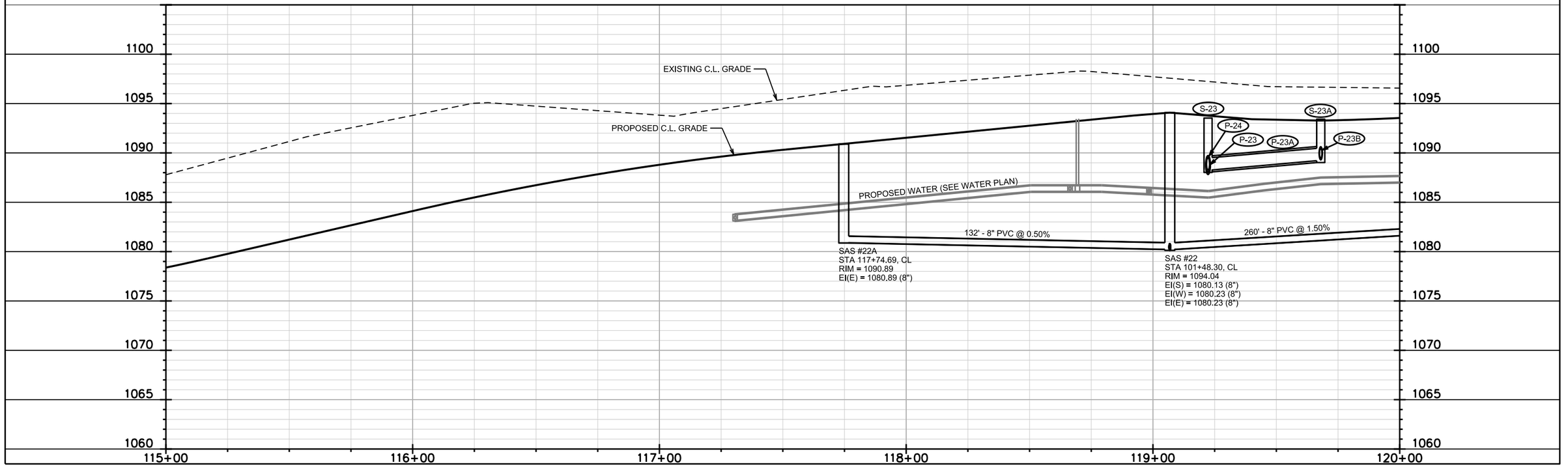
SHEET NO.
U-5

UTILITY PLAN AND PROFILE

TIERCEL DR

CITY OF MADISON





PLOT SCALE:

PLOT NAME:

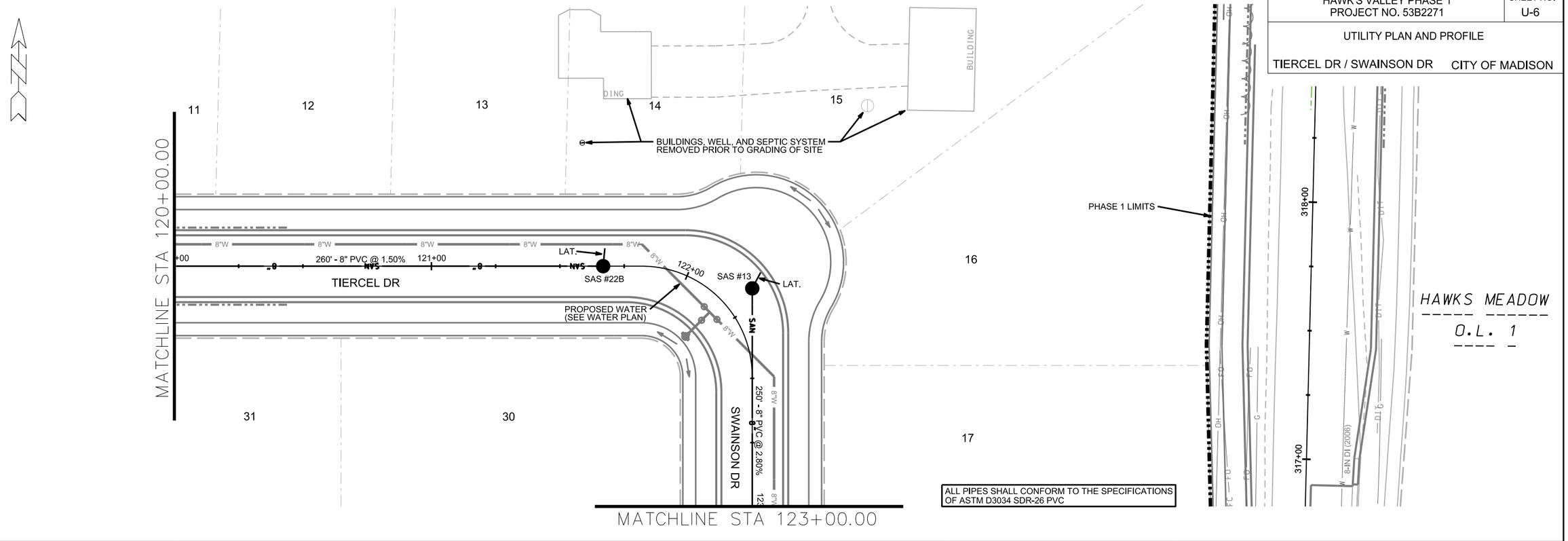
REV. DATE:

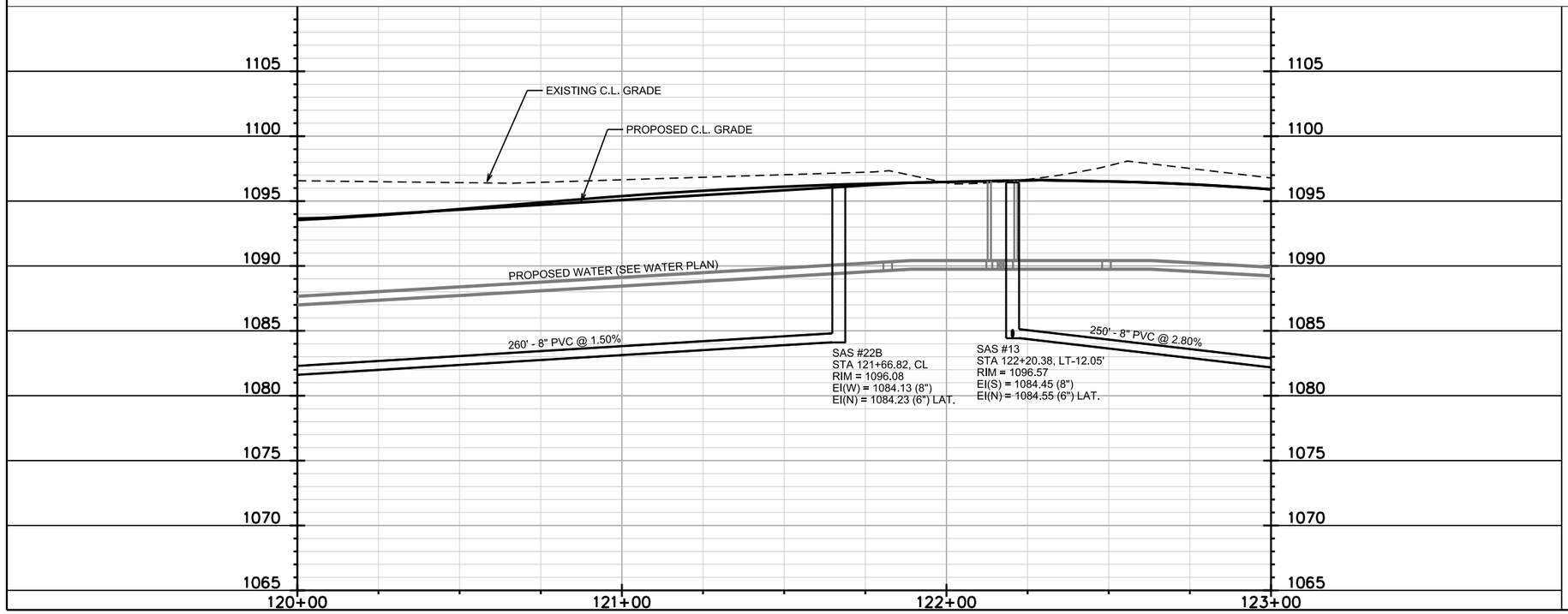
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-TISw-1.dgn

DATE: 8/14/2015

HAWK'S VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-6
UTILITY PLAN AND PROFILE	
TIERCEL DR / SWAINSON DR CITY OF MADISON	





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-TISw-2.dgn

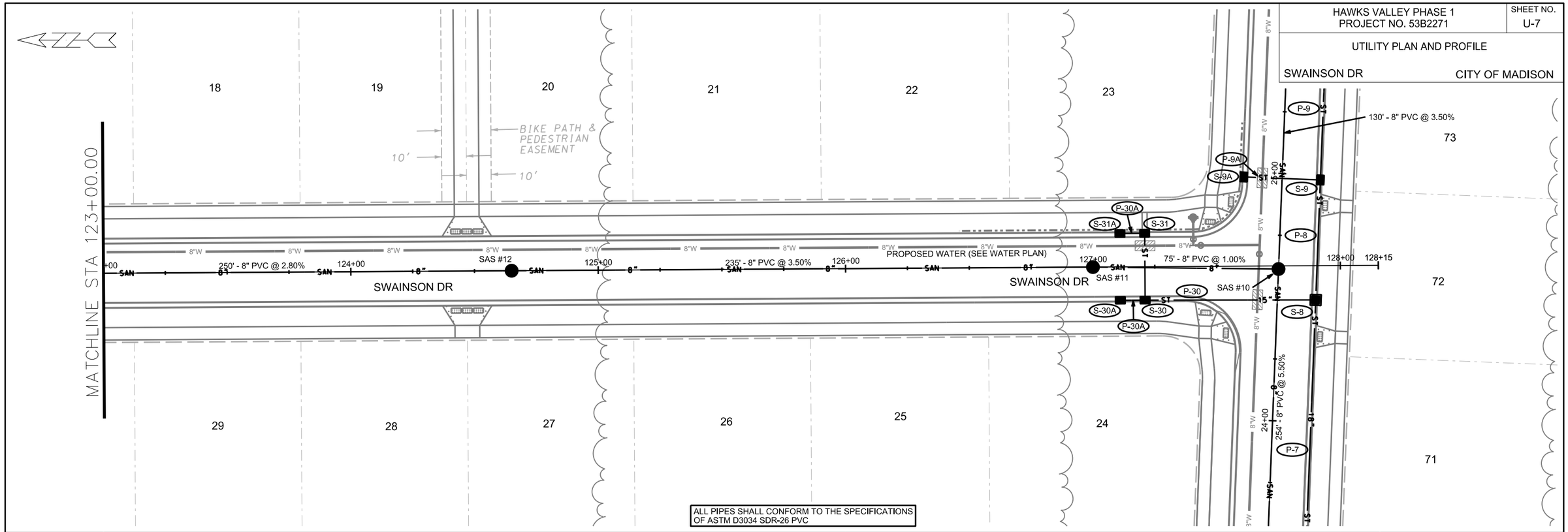
DATE: 8/14/2015

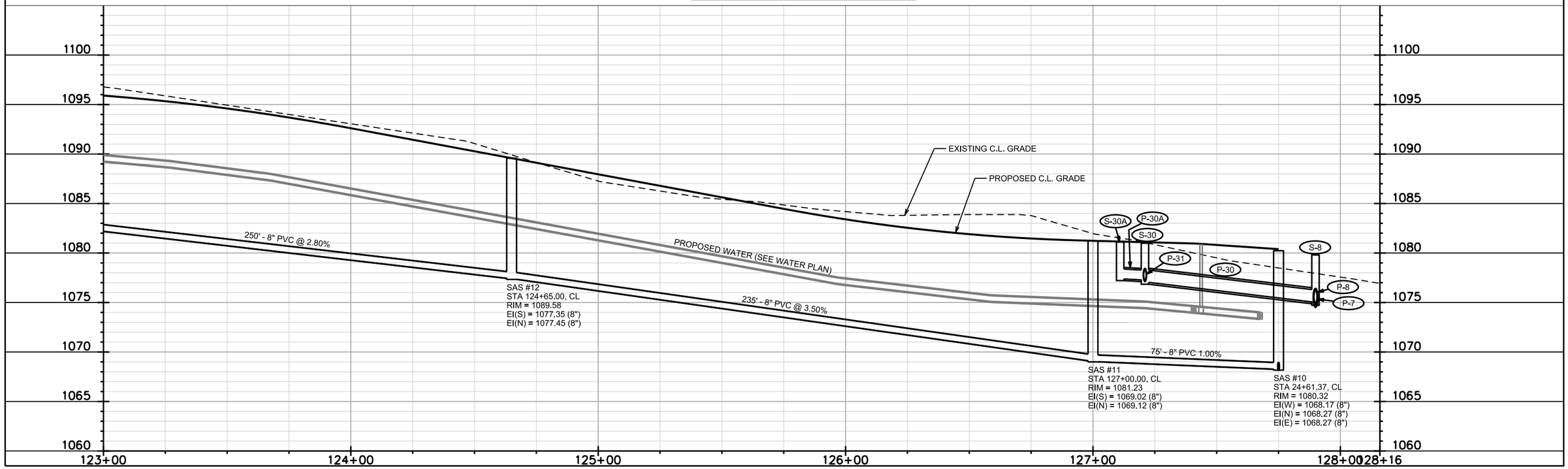
HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
U-7

UTILITY PLAN AND PROFILE

SWAINSON DR — CITY OF MADISON



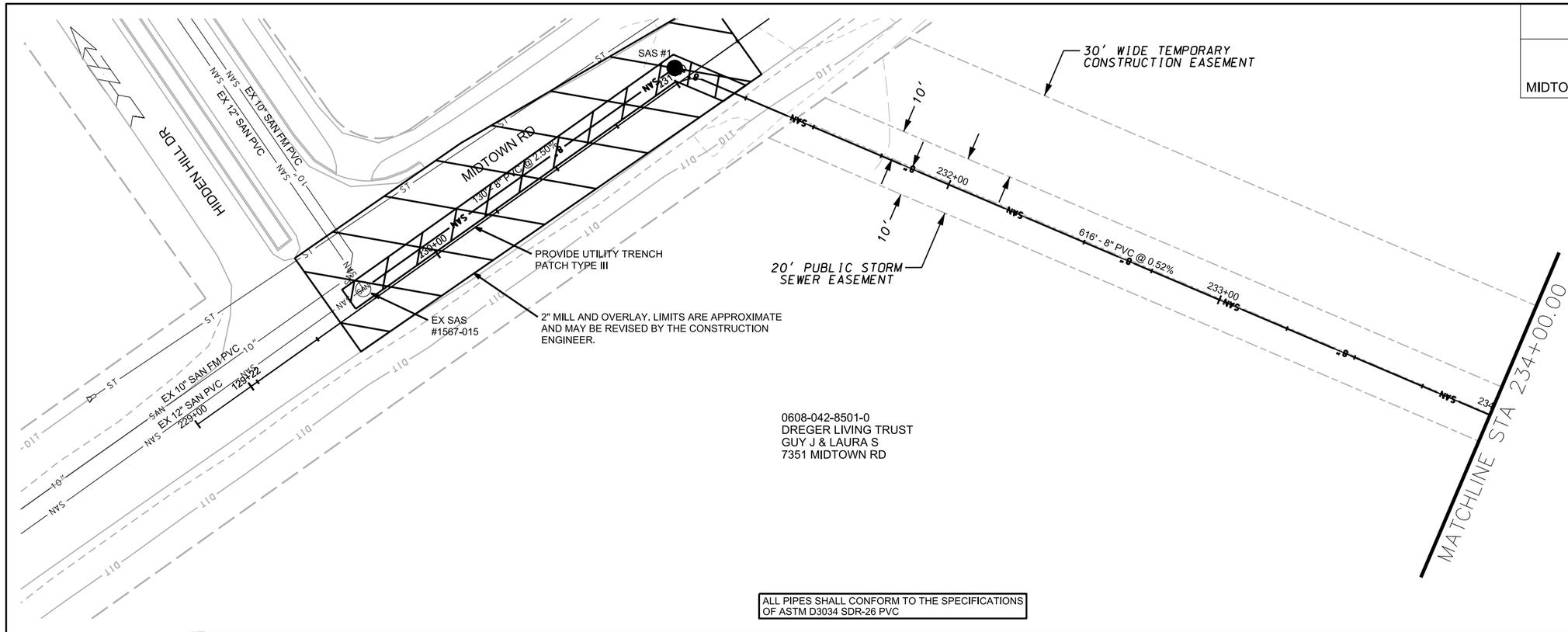


PLOT SCALE:
PLOT NAME:
REV. DATE:
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

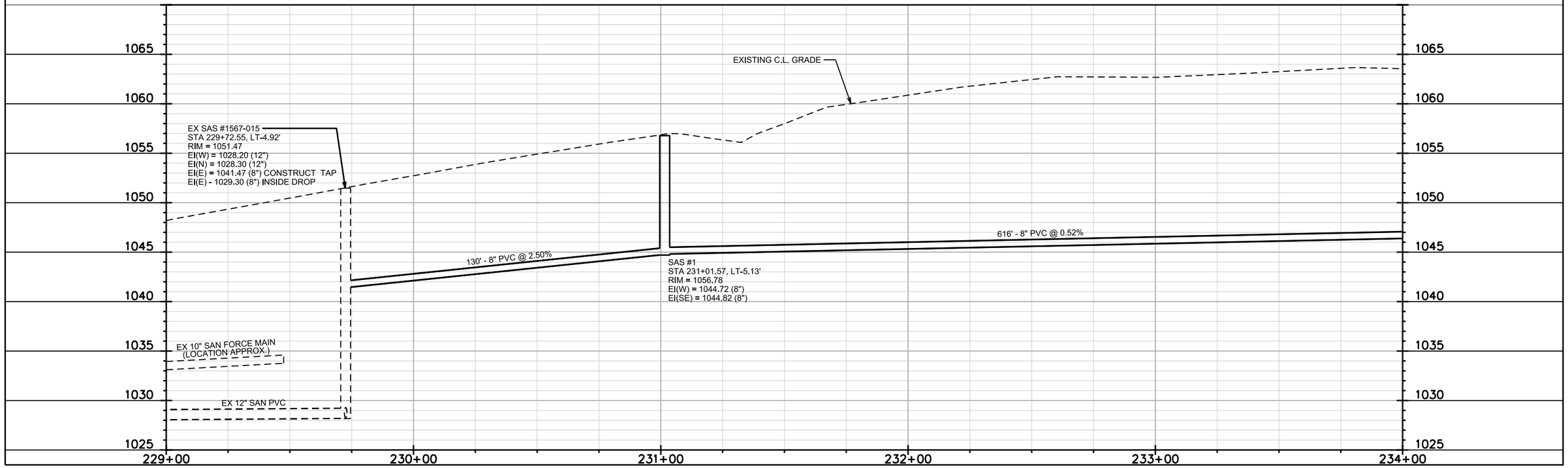
FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-TISw-3.dgn

DATE: 8/13/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-8
PLAN AND PROFILE	
MIDTOWN EASEMENT	CITY OF MADISON



ALL PIPES SHALL CONFORM TO THE SPECIFICATIONS OF ASTM D3034 SDR-26 PVC



PLOT SCALE:

PLOT NAME:

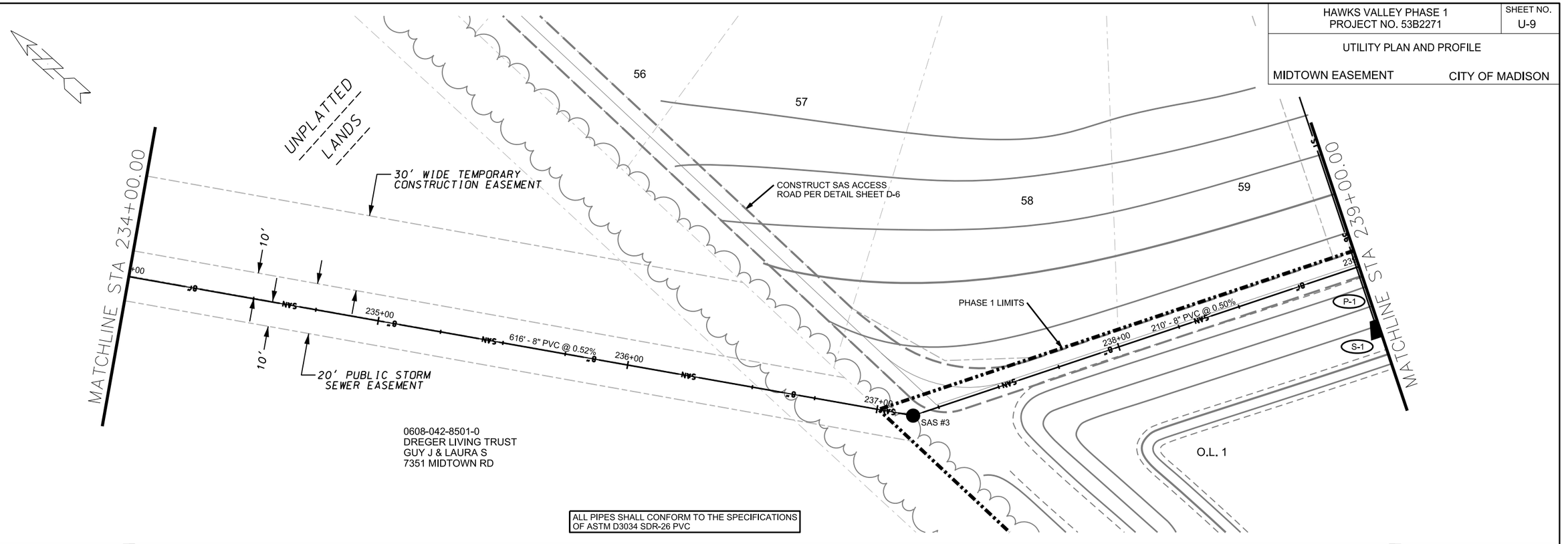
REV. DATE:

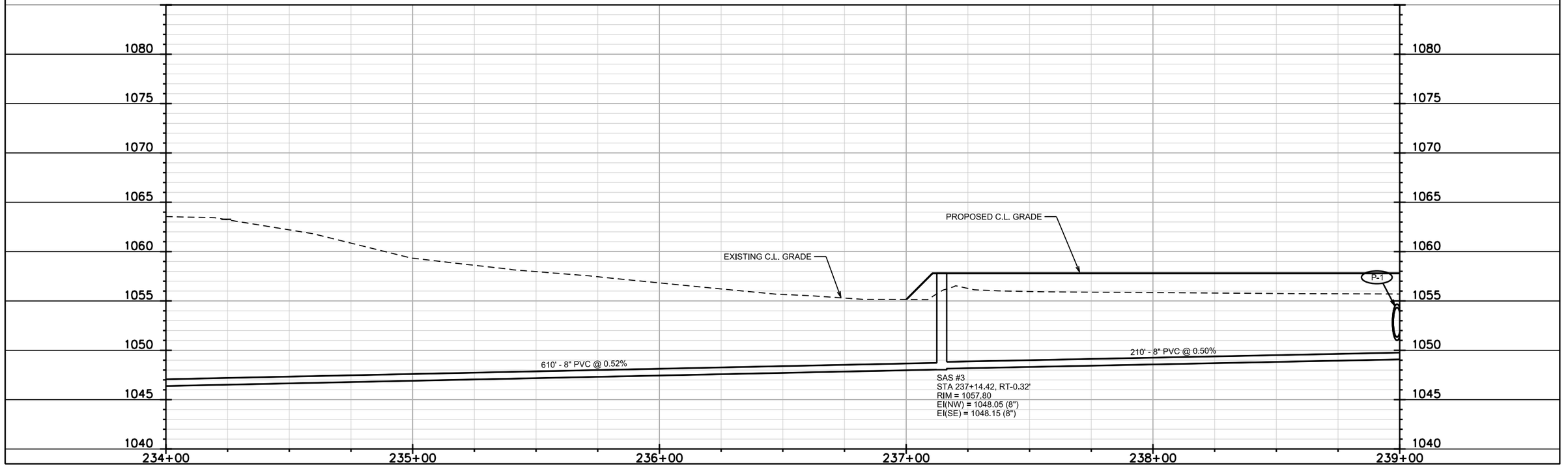
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Ease-1.dgn

DATE: 8/13/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-9
UTILITY PLAN AND PROFILE	
MIDTOWN EASEMENT	CITY OF MADISON





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Ease-2.dgn

DATE: 8/14/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO. U-10

UTILITY PLAN AND PROFILE

OUTLOTS

CITY OF MADISON

REV. 9/21/2015 KDF

MATCHLINE STA 239+00.00

16' PUBLIC STORM SEWER EASEMENT

1.5'

239+00

210' - 8" PVC @ 0.50%

SAS #4

S-1

60

61

62

O.L. 1

240+00

205' - 8" PVC @ 0.50%

241+00

SAS #5

TEMPORARY 24" CULVERT FOR ACCESS ROAD (50 LF)

PHASE 1 LIMITS

156.5' - 8" PVC @ 0.50%

242+00

CONSTRUCT SAS ACCESS ROAD PER DETAIL SHEET D-6

OUTFALL CHANNEL (GRADE TO DRAIN)

50+00

8" STUB

SAS #6

243+34

18+00

48

PHASE 2 LIMITS

39

38

O.L. 2

ASHWORTH DR

219' - 8" PVC @ 0.50%

SAS #7

100' - 8" PVC @ 0.50%

CONSTRUCT SAS ACCESS ROAD PER DETAIL SHEET D-6

ALL PIPES SHALL CONFORM TO THE SPECIFICATIONS OF ASTM D3034 SDR-26 PVC

PROPOSED C.L. GRADE

EXISTING C.L. GRADE

210' - 8" PVC @ 0.50%

SAS #4
STA 239+24.37, CL
RIM = 1057.80
EI(NW) = 1049.20 (8")
EI(SE) = 1049.30 (8")

205' - 8" PVC @ 0.50%

SAS #5
STA 241+29.37,22, CL
RIM = 1059.00
EI(NW) = 1050.33 (8")
EI(NE) = 1050.43 (8")

156.5' - 8" PVC @ 0.50%

SAS #6
STA 17+88.00, CL
RIM = 1067.98
EI(SW) = 1051.21 (8")
EI(NW) = 1051.31 (8") STUB
EI(SE) = 1051.31 (8")

1080 1075 1070 1065 1060 1055 1050 1045 1040

239+00 240+00 241+00 242+00 243+00 243+34

PLOT SCALE:

PLOT NAME:

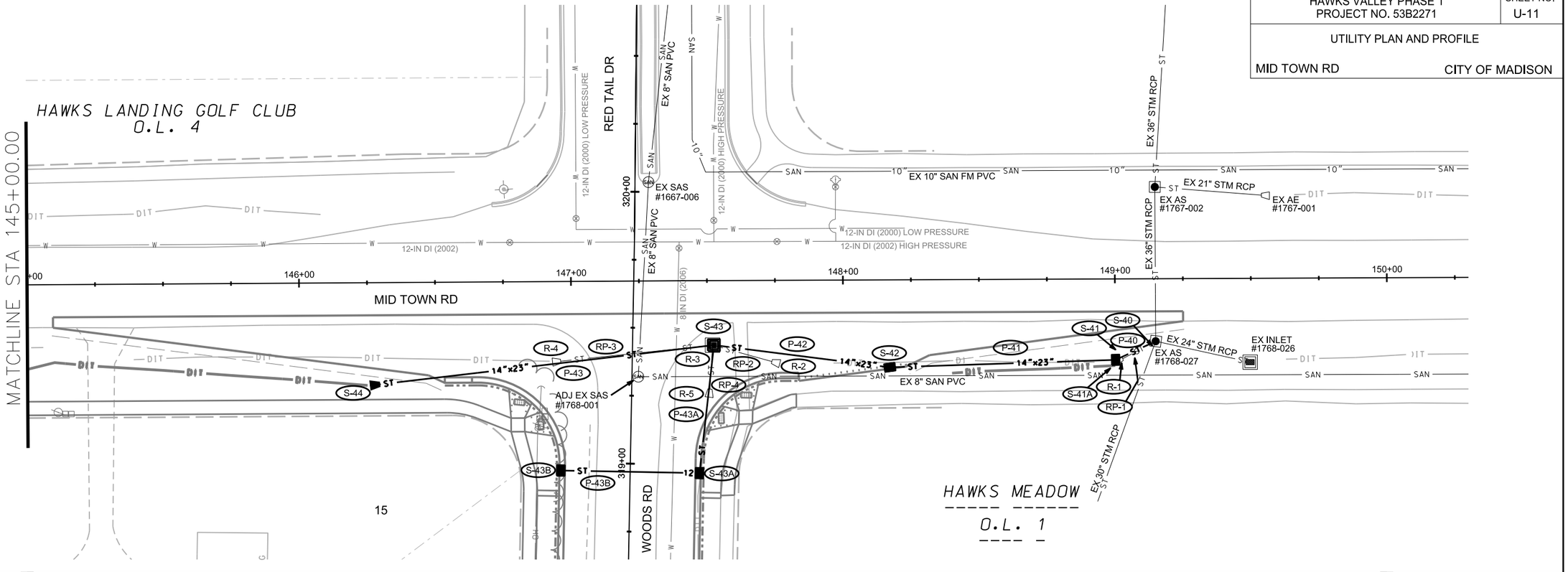
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Ease-3.dgn

DATE: 9/30/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-11
UTILITY PLAN AND PROFILE	
MID TOWN RD	CITY OF MADISON



15

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Sanitary\Design\53B2271SAN-PnP-Mid-2.dgn

DATE: 8/13/2015

SANITARY SEWER SCHEDULE

HAWK'S VALLEY PHASE 1	SHEET NO.
PROJECT NO. 53B2271	U-12
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
MIDTOWN EASEMENT / OUTLOTS						
SAS #1	231+01.57	LT-5.13	1056.78	1044.72	12.06	-
SAS #3	237+14.42	RT-0.32	1057.80	1048.05	9.75	(1)
SAS #4	239+24.37	CL	1057.80	1049.20	8.60	(1)
SAS #5	241+29.37	CL	1059.00	1050.33	8.67	(1)
ASHWORTH DR						
SAS #6	17+88.00	CL	1067.98	1051.21	16.77	-
SAS #7	20+07.04	CL	1066.16	1052.40	13.76	(3)
SAS #8	21+07.20	CL	1066.49	1053.00	13.49	(3)
SAS #9	22+07.37	CL	1066.26	1054.10	12.16	(3)
SAS #10	24+61.37	CL	1080.32	1068.17	12.15	-
SAS #10A	25+91.37	CL	1085.82	1072.82	13.00	-
TIERCEL DR / SWAINSON DR						
SAS #11	127+00.00	CL	1081.23	1069.02	12.21	-
SAS #12	124+65.00	CL	1089.58	1077.35	12.23	-
SAS #13	122+20.38	LT-12.05	1096.43	1084.45	11.98	-
SAS #22A	117+74.69	CL	1090.89	1080.89	10.00	-
SAS #22B	121+66.82	CL	1096.27	1084.13	12.14	-
RAPTOR DR						
SAS #20	97+23.38	CL	1074.25	1060.90	13.35	-
SAS #21	99+43.44	CL	1088.27	1075.30	12.97	-
SAS #22	101+48.30	CL	1094.08	1080.13	13.95	-
SAS #30	94+33.12	CL	1061.47	1053.95	7.52	(2), (3)

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
MIDTOWN EASEMENT / OUTLOTS								
EX SAS 1567-015	SAS #1	1041.47	1044.72	130	2.50%	8"	SDR-26	-
SAS #1	SAS #3	1044.82	1048.05	616	0.52%	8"	SDR-26	-
SAS #3	SAS #4	1048.15	1049.20	210	0.50%	8"	SDR-26	-
SAS #4	SAS #5	1049.30	1050.33	205	0.50%	8"	SDR-26	-
SAS #5	SAS #6	1050.43	1051.21	156.5	0.50%	8"	SDR-26	-
ASHWORTH DR								
SAS #6	SAS #7	1051.31	1052.40	219	0.50%	8"	SDR-26	-
SAS #7	SAS #8	1052.50	1053.00	100	0.50%	8"	SDR-26	-
SAS #8	SAS #9	1053.10	1054.10	100	1.00%	8"	SDR-26	-
SAS #9	SAS #10	1054.20	1068.17	254	5.50%	8"	SDR-26	-
SAS #10	SAS #10A	1068.27	1072.82	130	3.50%	8"	SDR-26	-
TIERCEL DR / SWAINSON DR								
SAS #10	SAS #11	1068.27	1069.02	75	1.00%	8"	SDR-26	-
SAS #11	SAS #12	1069.12	1077.35	235	3.50%	8"	SDR-26	-
SAS #12	SAS #13	1077.45	1084.45	250	2.80%	8"	SDR-26	-
SAS #22	SAS #22A	1080.23	1080.89	132	0.50%	8"	SDR-26	-
SAS #22	SAS #22B	1080.23	1084.13	260	1.50%	8"	SDR-26	-
RAPTOR DR								
SAS #8	SAS #20	1053.10	1060.90	120	6.50%	8"	SDR-26	-
SAS #20	SAS #21	1061.00	1075.30	220	6.50%	8"	SDR-26	-
SAS #21	SAS #22	1075.40	1080.13	205	2.31%	8"	SDR-26	-
SAS #8	SAS #30	1053.10	1053.95	170	0.50%	8"	SDR-26	(2)

SANITARY STRUCTURE ADJUSTMENTS

ADJUST NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
MIDTOWN RD						
SAS #1768-001	147+24.56	RT-35.19	1090.04	1089.68	-0.36	-

SPECIFIC NOTES

(1) INSTALL SAS CASTING AND FRAME R-1916C-0054, LOCKING LID WITH LOGO COVER HEX BOLTED TO SAS CHIMNEY (NO ADJUSTMENT RINGS)
(2) TO BE CONSTRUCTED AS PART OF PHASE 2
(3) INSTALL INTERNAL CHIMNEY SEAL PER S.D.D. 5.7.17

STORM SEWER SCHEDULE

HAWK'S VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. U-13
STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
OUTLOTS							
S-1	238+98.90	RT-29.24	36" RCP AE	-	1051.00	-	(1), W/ GATE
ASHWORTH DR							
S-2	15+57.52	RT-15.50	5X5 SAS	1066.42	1052.99	13.43	W/R-3067-7004-V
* ~~S-3~~	~~17+18.02~~	~~RT-15.50~~	~~5X5 SAS~~	~~1067.55~~	~~1053.85~~	~~13.70~~	~~W/R-3067-7004-V~~
* ~~S-4~~	~~20+47.00~~	~~RT-15.50~~	~~5X5 SAS~~	~~1065.79~~	~~1055.64~~	~~10.15~~	~~W/R-3067-7004-V~~
* ~~S-4A~~	~~20+47.00~~	~~LT-15.50~~	~~H INLET~~	~~1066.63~~	~~1062.63~~	~~4.00~~	~~(3), (5), LP, UD, W/R-3067-7004-VB~~
* ~~S-5~~	~~21+26.90~~	~~RT-35.25~~	~~5X5 SAS~~	~~1064.68~~	~~1056.09~~	~~8.59~~	~~W/R-3067-7004-V~~
* S-6	**22+58.99**	**RT-15.23**	**STM STUB**	**-**	**1063.39**	**-**	**-**
* ~~S-6A~~	~~21+71.00~~	~~LT-15.50~~	~~H INLET~~	~~1066.77~~	~~1062.55~~	~~4.22~~	~~(3), (5), LP, UD, W/R-3067-7004-VB~~
S-7	22+75.00	RT-15.50	3X3 SAS	1068.56	1063.83	4.73	W/R-3067-7004-V
S-8	24+49.48	RT-15.50	3X3 SAS	1079.80	1074.72	5.08	W/R-3067-7004-V
S-9	24+98.02	RT-15.50	H INLET	1082.17	1077.50	4.67	W/R-3067-7004-V
S-9A	24+98.02	LT-15.50	H INLET	1082.59	1078.17	4.42	W/R-3067-7004-V
S-10	26+15.13	RT-15.50	H INLET	1086.22	1082.03	4.19	W/R-3067-7004-V
S-11	26+20.00	LT-15.50	H INLET	1086.97	1083.22	3.75	W/R-3067-7004-V
TIERCEL DR / SWAINSON DR							
S-23A	119+67.99	RT-13.50	H INLET	1093.42	1089.21	4.21	(5), LP, UD, W/R-3067-7004-VB
S-23B	119+67.99	LT-13.50	H INLET	1093.42	1089.71	3.71	(5), LP, UD, W/R-3067-7004-VB
S-30	127+21.00	RT-13.50	H INLET	1080.99	1077.03	3.96	W/R-3067-7004-V
S-30A	127+11.00	RT-13.50	H INLET	1081.11	1077.42	3.69	W/R-3067-7004-V
S-31	127+21.00	LT-13.50	H INLET	1081.83	1077.83	4.00	(5), LP, UD, W/R-3067-7004-VB
S-31A	127+11.00	LT-13.50	H INLET	1081.90	1077.97	3.93	W/R-3067-7004-V
RAPTOR DR							
* ~~S-20~~	~~96+49.53~~	~~RT-21.62~~	~~3X3 SAS~~	~~1069.04~~	~~1064.90~~	~~4.14~~	~~W/R-3067-7004-V~~
* ~~S-20A~~	~~96+51.13~~	~~LT-19.85~~	~~H INLET~~	~~1069.17~~	~~1065.60~~	~~3.57~~	~~W/R-3067-7004-V~~
* ~~S-21~~	~~97+69.52~~	~~RT-15.50~~	~~3X3 SAS~~	~~1077.36~~	~~1072.73~~	~~4.63~~	~~W/R-3067-7004-V~~
* S-22	**100+37.66**	**RT-15.50**	**STM STUB**	**-**	**1086.49**	**-**	**-**
S-23	101+14.30	RT-15.50	3X3 SAS	1093.53	1088.02	5.51	W/R-3067-7004-V
S-24	102+62.74	RT-22.50	H INLET	1093.26	1089.14	4.12	(5), LP, UD, W/R-3067-7004-VB
S-24A	102+62.74	LT-14.51	H INLET	1093.42	1089.77	3.65	(5), LP, UD, W/R-3067-7004-VB
* ~~S-25~~	~~94+45.00~~	~~RT-16.26~~	~~5X5 SAS~~	~~1061.49~~	~~1056.74~~	~~4.75~~	~~(3), (5), LP, UD, W/R-3067-7004-VB~~
* ~~S-25A~~	~~94+45.00~~	~~LT-15.71~~	~~H INLET~~	~~1061.49~~	~~1058.49~~	~~3.00~~	~~(3), (5), LP, UD, W/R-3067-7004-VB~~
* ~~S-26~~	~~94+27.61~~	~~RT-17.68~~	~~STM STUB~~	~~-~~	~~1056.81~~	~~-~~	~~(3), (4)~~

MID TOWN RD (SEE SHEET U-14 FOR STRUCTURE)

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
OUTLOTS										
P-1	S-1	S-2	1051.19	1052.99	162.5	159.9	1.13%	36	RCP	(2)
ASHWORTH DR										
P-2	S-2	S-3	1052.99	1053.85	160.5	155.5	0.55%	36"	RCP	-
* ~~P-3~~	~~S-3~~	~~S-4~~	~~1053.85~~	~~1055.64~~	~~331~~	~~326~~	~~0.55%~~	~~36"~~	~~RCP~~	~~-~~
* ~~P-4~~	~~S-4~~	~~S-5~~	~~1055.64~~	~~1056.09~~	~~86~~	~~81.1~~	~~0.55%~~	~~36"~~	~~RCP~~	~~-~~
* ~~P-4A~~	~~S-4~~	~~S-4A~~	~~1061.79~~	~~1062.63~~	~~31~~	~~27.5~~	~~3.05%~~	~~12"~~	~~RCP~~	~~(3)~~
* ~~P-5~~	~~S-5~~	~~S-6~~	~~1059.50~~	~~1060.76~~	~~50.5~~	~~45.6~~	~~2.76%~~	~~18"~~	~~RCP~~	~~-~~
* P-6	S-6	S-7	**1063.39**	1063.83	**16**	**14.5**	3.00%	18"	RCP	-
* ~~P-6A~~	~~S-6~~	~~S-6A~~	~~1061.26~~	~~1062.55~~	~~31~~	~~28.5~~	~~4.53%~~	~~12"~~	~~RCP~~	~~(3)~~
P-7	S-7	S-8	1063.83	1074.72	174.5	171.5	6.35%	18"	RCP	-
P-8	S-8	S-9	1074.97	1077.50	48.5	45.5	5.56%	15"	RCP	-
P-9	S-9	S-10	1077.75	1082.03	117	114.1	3.75%	12"	RCP	-
P-9A	S-9	S-9A	1077.75	1078.17	31	29	1.45%	12"	RCP	-
P-10	S-10	S-11	1082.03	1083.22	31.5	29.4	4.05%	12"	RCP	-
TIERCEL DR / SWAINSON DR										
P-23A	S-23	S-23A	1088.27	1089.21	50	46.8	2.01%	15"	RCP	-
P-23B	S-23A	S-23B	1089.46	1089.71	27	25	1.00%	12"	RCP	-
P-30	S-8	S-30	1074.97	1077.03	67.5	66	3.12%	15"	RCP	-
P-30A	S-30	S-30A	1077.28	1077.42	8.5	7	2.00%	12"	RCP	-
P-31	S-30	S-31	1077.28	1077.83	27	25	2.20%	12"	RCP	-
P-31A	S-31	S-31A	1077.83	1077.97	10	7	2.00%	12"	RCP	-
RAPTOR DR										
* ~~P-20~~	~~S-5~~	~~S-20~~	~~1059.68~~	~~1064.90~~	~~81.5~~	~~77.4~~	~~6.74%~~	~~18"~~	~~RCP~~	~~-~~
* ~~P-20A~~	~~S-20~~	~~S-20A~~	~~1065.40~~	~~1065.60~~	~~41.5~~	~~39~~	~~0.51%~~	~~12"~~	~~RCP~~	~~(3)~~
* ~~P-21~~	~~S-20~~	~~S-21~~	~~1064.90~~	~~1072.73~~	~~123.5~~	~~120.5~~	~~6.50%~~	~~18"~~	~~RCP~~	~~-~~
* ~~P-22~~	~~S-21~~	~~S-22~~	~~1072.73~~	~~1085.29~~	~~205.5~~	~~202.5~~	~~6.20%~~	~~18"~~	~~RCP~~	~~-~~
* P-23	S-22	S-23	**1086.49**	**1088.02**	**76.5**	**76.6**	2.00%	18"	RCP	-
P-24	S-23	S-24	1088.27	1089.14	148.5	145.6	0.60%	15"	RCP	-
P-24A	S-24	S-24A	1089.39	1089.77	37	35	1.09%	12"	RCP	-
* ~~P-25~~	~~S-5~~	~~S-25~~	~~1056.09~~	~~1056.74~~	~~123~~	~~118~~	~~0.55%~~	~~36"~~	~~RCP~~	~~(3)~~
* ~~P-25A~~	~~S-25~~	~~S-25A~~	~~1058.25~~	~~1058.49~~	~~32~~	~~28.5~~	~~0.84%~~	~~12"~~	~~RCP~~	~~(3)~~
* ~~P-26~~	~~S-25~~	~~S-26~~	~~1056.74~~	~~1056.81~~	~~16~~	~~13.5~~	~~0.52%~~	~~36"~~	~~RCP~~	~~(3)~~

MID TOWN RD (SEE SHEET U-14 FOR PIPES)

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) TO BE CONSTRUCTED AS PART OF PHASE 2
(4) INSTALL PIPE PLUG
(5) 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.

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 KRANK@CITYOFMADISON.COM.

STORM SEWER SCHEDULE

HAWK'S VALLEY PHASE 1	SHEET NO.
PROJECT NO. 53B2271	U-14
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MID TOWN RD							
S-40	148+40.00	RT-34.40	STM TAP	-	1088.00	-	-
S-41	149+00.17	RT-29.78	SADDLED H INLET	1086.91	1084.81	2.10	W/R-1878-B7G
S-42	148+17.13	RT-32.17	H INLET	1089.61	1085.21	4.40	W/R-3067-7004-V
S-43	147+52.50	RT-23.72	3X3 SAS	1089.79	1085.52	4.27	W/R-1050-0054
S-43A	147+46.97	RT-70.77	H INLET	1089.46	1085.74	3.72	LP, UD, W/R-3067-7004-VB
S-43B	146+95.85	RT-69.51	H INLET	1089.46	1086.24	3.22	LP, UD, W/R-3067-7004-VB
S-44	146+25.85	RT-37.81	14"X23" HERCP AE	-	1090.00	-	(1), W/ GATE
S-50	141+37.55	LT-24.97	12" RCP AE	-	1091.42	-	(1), W/ GATE
S-51	141+61.57	LT-25.08	12" RCP AE	-	1091.54	-	(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
MID TOWN RD										
P-40	EX AS 1768-027	S-41	1084.74	1084.81	16.5	12.8	0.55%	14"X23"	HERCP	-
P-41	S-41	S-42	1084.81	1085.21	83	80.6	0.50%	14"X23"	HERCP	-
P-42	S-42	S-43	1085.21	1085.52	65.5	62.1	0.50%	14"X23"	HERCP	-
P-43	S-43	S-44	1085.52	1090.00	127.5	125.9	3.56%	14"X23"	HERCP	(2)
P-43A	S-43	S-43A	1085.52	1085.74	47.5	44.4	0.50%	15"	RCP	-
P-43B	S-43A	S-43B	1085.99	1086.24	51	49	0.51%	12"	RCP	-
P-50	S-50	S-51	1091.45	1091.51	12	12	0.50%	12"	RCP	(2)

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
MID TOWN RD					
R-1	AE 1768-021	149+00.00	RT-30.30	APRON ENDWALL	-
R-2	AE 1768-003	147+76.65	RT-30.65	APRON ENDWALL	-
R-3	AS1768-001	147+51.95	RT-23.75	4X4 SAS	-
R-4	AE 1668-001	146+93.05	RT-29.60	APRON ENDWALL	-
R-5	AE 1768-002	147+50.65	RT-42.85	APRON ENDWALL	-

REMOVE STORM PIPES

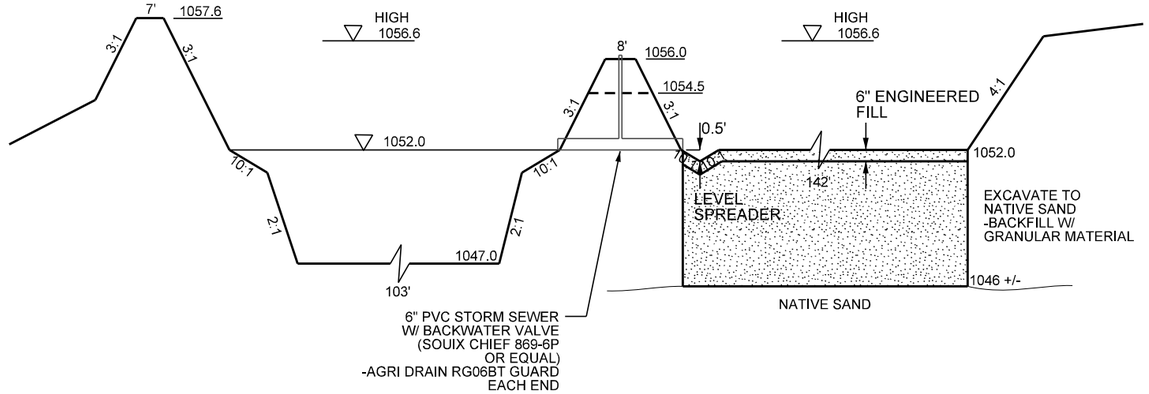
REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
MID TOWN RD							
RP-1	S-40	R-1	8	14"X23"	HERCP	N	-
RP-2	R-2	R-3	17	18"	RCP	N	-
RP-3	R-3	R-4	51	18"	RCP	N	-
RP-4	R-3	R-5	14	12"	RCP	N	-

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

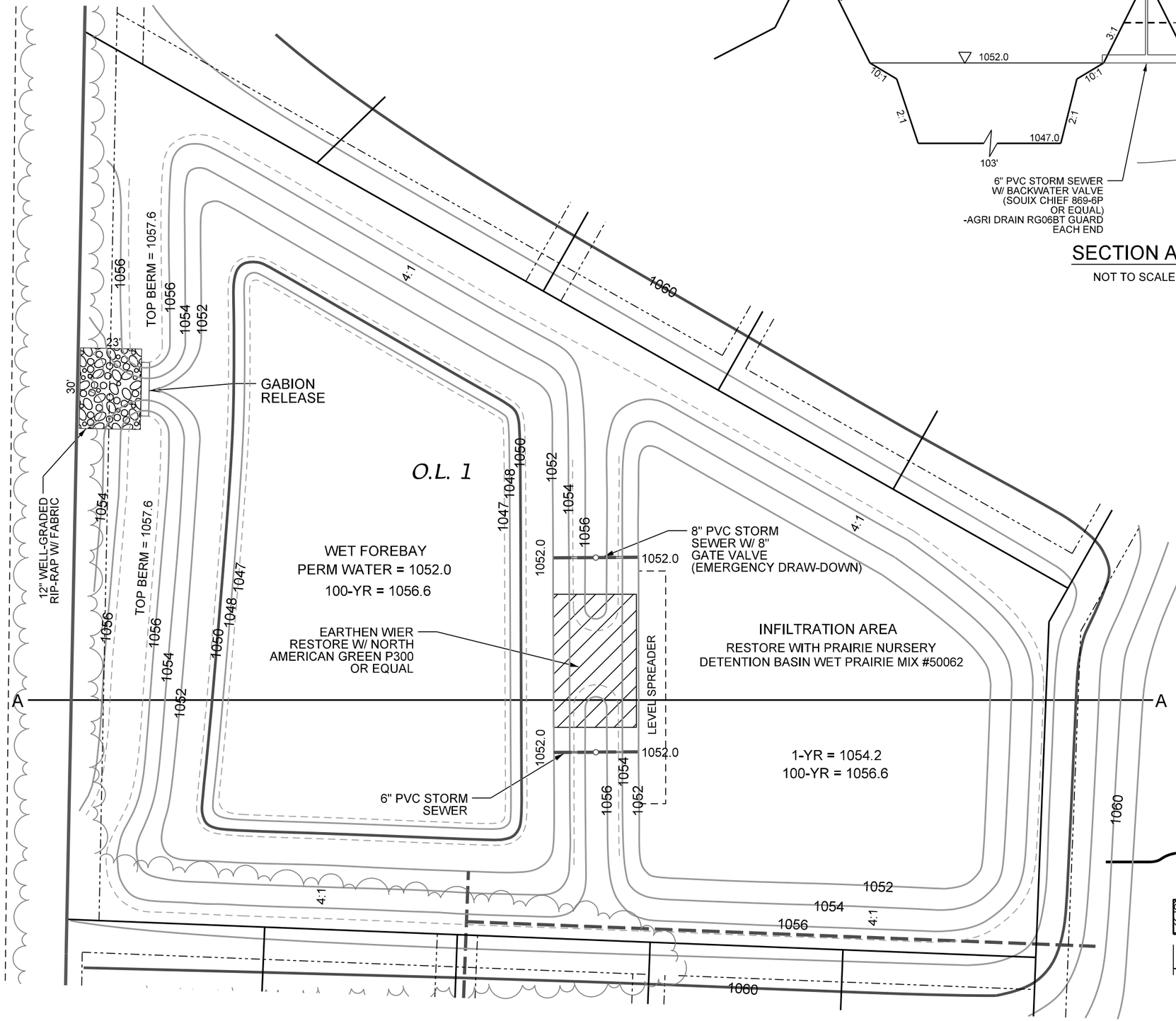
STANDARD NOTES:

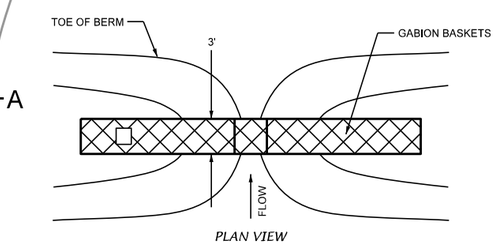
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = 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 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.



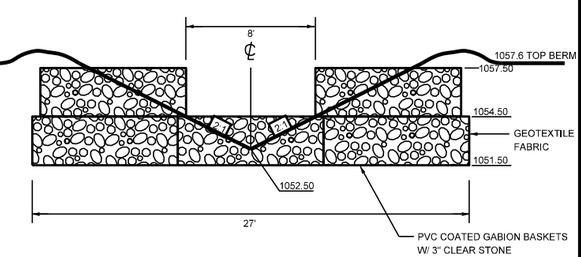
SECTION A-A

NOT TO SCALE





PLAN VIEW



GABION BASKET RELEASE STRUCTURE

NOT TO SCALE

WISCONSIN
KEVIN J. PAPE
E-37865
CROSS PLAINS, WI
PROFESSIONAL ENGINEER
8/10/15

D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
7530 Westward Way, Madison, WI 53717
Phone: 608.833.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

POND DETAILS

HAWKS VALLEY

CITY OF MADISON
DANE COUNTY, WISCONSIN

SCALE: 1"= 40'

0 20

DATE: 08-10-15

DRAWN BY: KJP

FN: 10-05-119

Sheet Number:
1 of 1

I:/USER/1005116/STORMWATER/POND DETAILS.DGN

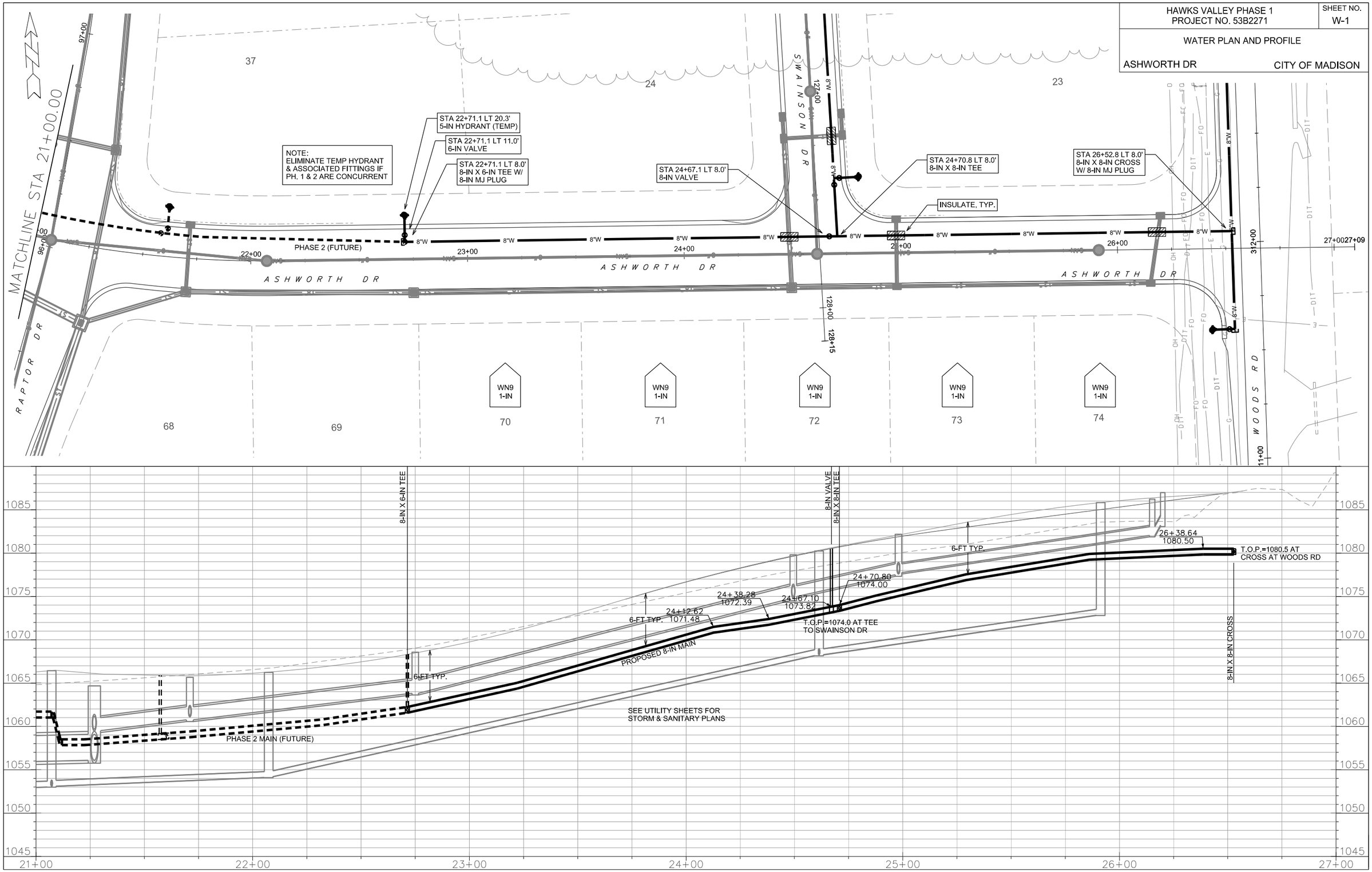
HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
W-1

WATER PLAN AND PROFILE

ASHWORTH DR

CITY OF MADISON



PLOT SCALE: ____

PLOT NAME: ____

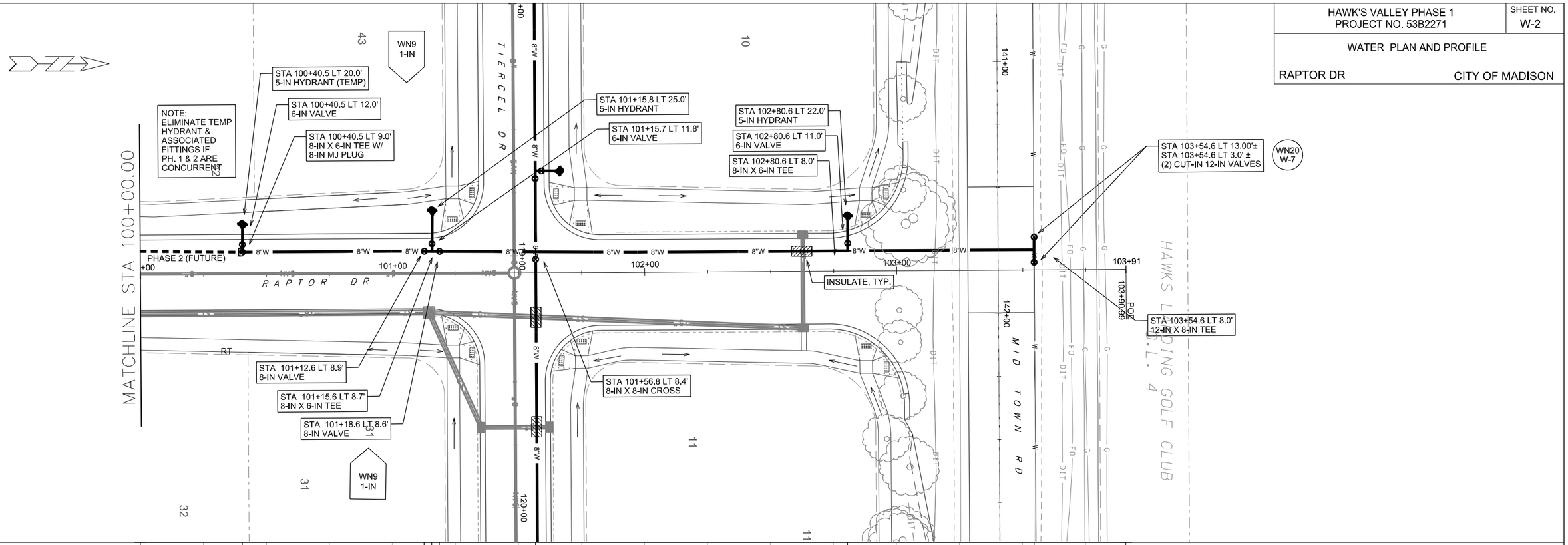
REV. DATE: ____

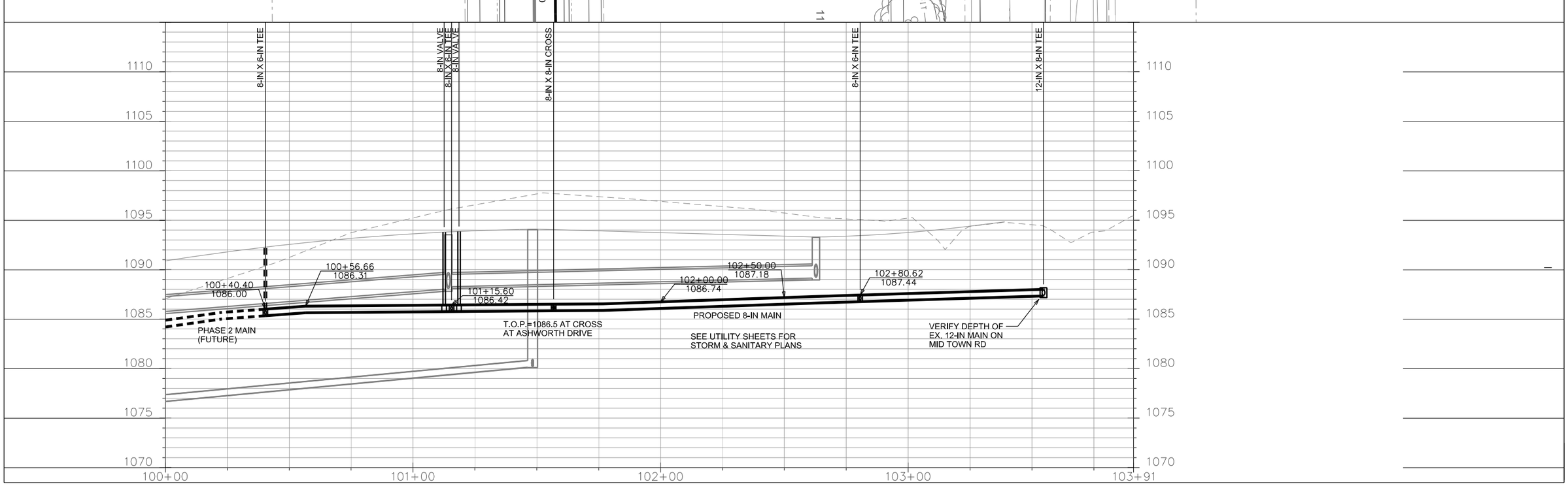
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W1-Ashw-2.dgn

DATE: 6/10/2015

HAWK'S VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. W-2
WATER PLAN AND PROFILE	
RAPTOR DR	CITY OF MADISON





PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W2-Rapt-2.dgn

DATE: 6/10/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
W-3

WATER PLAN AND PROFILE

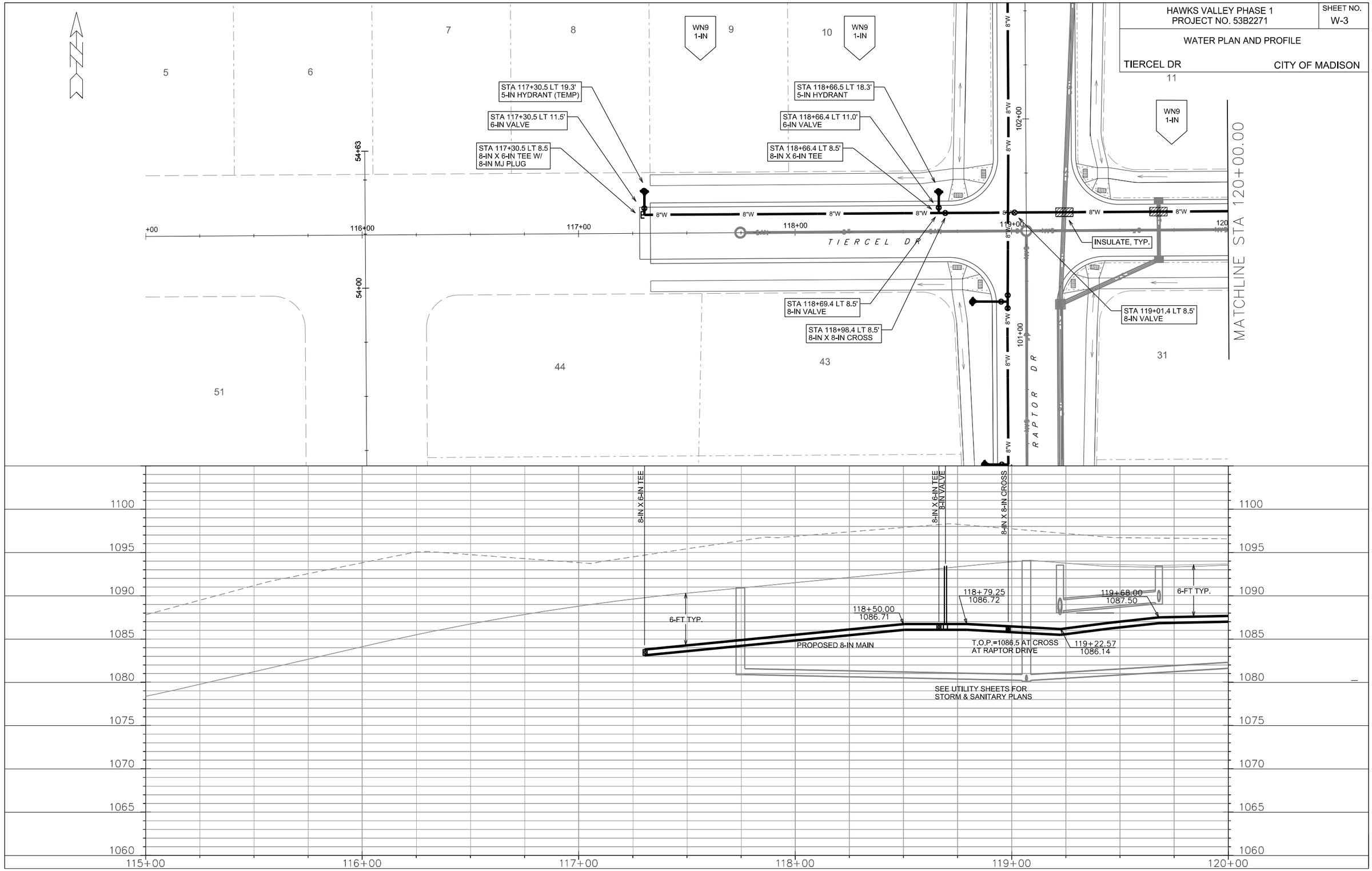
TIERCEL DR — CITY OF MADISON

PLOT SCALE: ____

PLOT NAME: ____

REV. DATE: ____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W3-TiSw-1.dgn

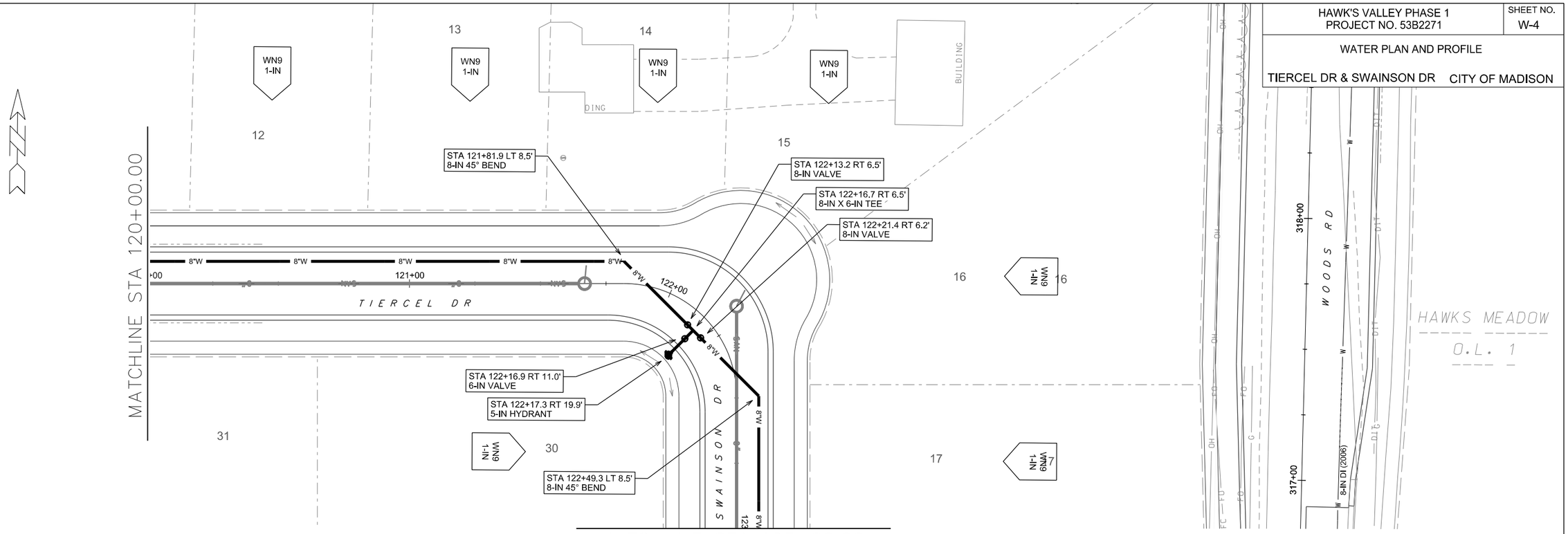
DATE: 6/10/2015

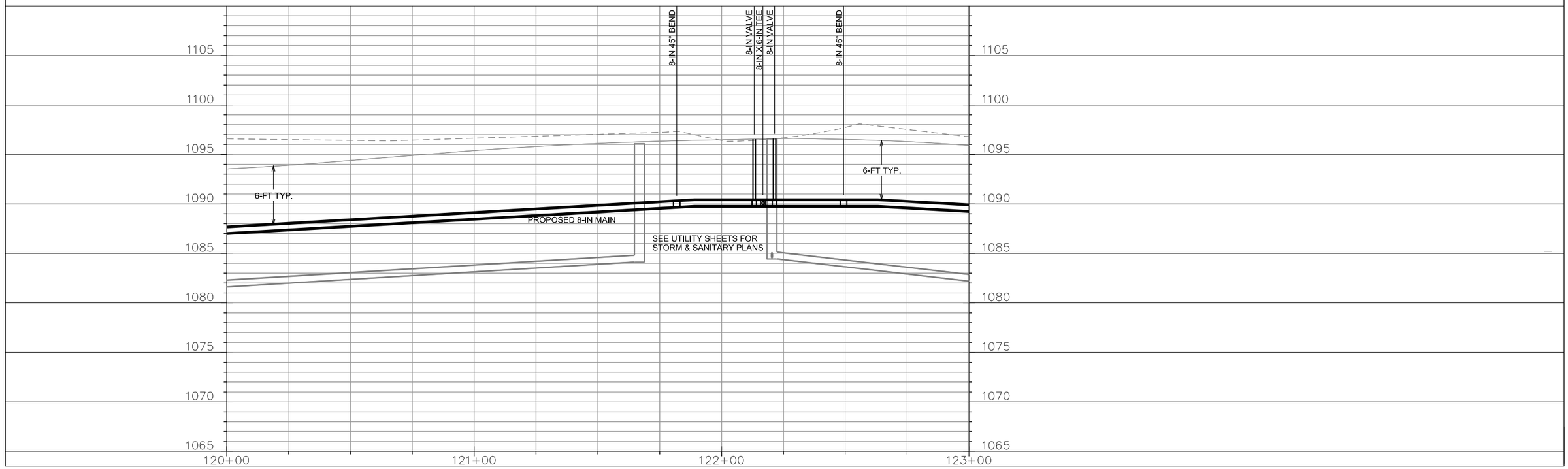
HAWK'S VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
W-4

WATER PLAN AND PROFILE

TIERCEL DR & SWAINSON DR CITY OF MADISON





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

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W4-TiSw-2.dgn

DATE: 6/10/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
W-5

WATER PLAN AND PROFILE

SWAINSON DR — CITY OF MADISON

MATCHLINE STA 123+00.00

WN9 1-IN

18 19 20 21 22 24 25 26 27 28 29

BIKE PATH & PEDESTRIAN EASEMENT
10' 10'

STA 127+40.7 LT 19.8
5-IN HYDRANT

STA 127+40.7 LT 11.0'
6-IN VALVE

INSULATE, TYP.

STA 127+40.7 LT 8.5'
8-IN X 6-IN TEE

STA 127+43.7 LT 8.5'
8-IN VALVE

STA 127+67.5 LT 8.5'
8-IN X 8-IN TEE

8"W

+00 124+00 125+00 126+00 127+00 128+00 128+15

SWAINSON DR

ASHWORTH DR
24+00
24+00

73 72 71

8-IN X 6-IN TEE
8-IN VALVE

8-IN X 8-IN TEE

1100 1095 1090 1085 1080 1075 1070 1065 1060

6-FT TYP.

PROPOSED 8-IN MAIN

126+50.00
1075.98

6-FT TYP.

127+00.00
1075.31

127+40.70
1074.63

127+43.70
1074.56

127+21.06
1075.09

SEE UTILITY SHEETS FOR
STORM & SANITARY PLANS

T.O.P.=1074.0 AT TEE
TO ASHWORTH DR

123+00 124+00 125+00 126+00 127+00 128+00 128+16

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

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W5-TiSw-3.dgn

DATE: 6/10/2015

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. W-6
WATER PLAN AND PROFILE	
WOODS ROAD	CITY OF MADISON

PLOT SCALE: ——

PLOT NAME: ——

REV. DATE: ——

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

MATCHLINE STA 310+00.00

MATCHLINE STA 315+00.00

WOODS RD

ASHWORTH DR

12" CMP ST

8" SS

8-IN DI (2006)

STA 311+60.0 LT 23.4'
5-IN HYDRANT

STA 311+60.0 LT 15.5'
6-IN VALVE

STA 311+60.0 LT 13.0'
8-IN X 6-IN TEE W/
8-IN MJ PLUG

STA 312+05.2 LT 13.0'
8-IN X 8-IN CROSS
W/ 8-IN MJ PLUG

STA 313+36.9 LT 13.0'
8-IN 45° BEND

USE UTILITY TRENCH PATCH TYPE
III TO REPAIR ROAD; REPAIR
CURB AND GUTTER IF DAMAGED

STA 313+64.1 RT 14.8'
8-IN 45° BEND

STA 313+67.1 RT 14.8'
8-IN VALVE

WN21
W-7

STA 313+70.1 RT 14.8'
REMOVE PLUG ON EX.
TEE TO CONNECT TO
EX. 8-IN MAIN

8-IN X 6-IN TEE

8-IN X 6-IN TEE

8-IN 45° BEND

8-IN 45° BEND

EX 8-IN X 6-IN TEE

T.O.P.= 1078.7

T.O.P.= 1080.5

T.O.P.= 1082.3

T.O.P.= 1084.4

T.O.P.= 1085.9

PROPOSED 8-IN MAIN

NOTE DEEPER THAN STANDARD
DEPTH OF WATER MAIN DUE TO
FUTURE WOODS RD PROFILE

VERIFY DEPTH OF
EX. WATER MAIN

EX. 8-IN MAIN; DEPTH APPROX.

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W6-Woods-1.dgn

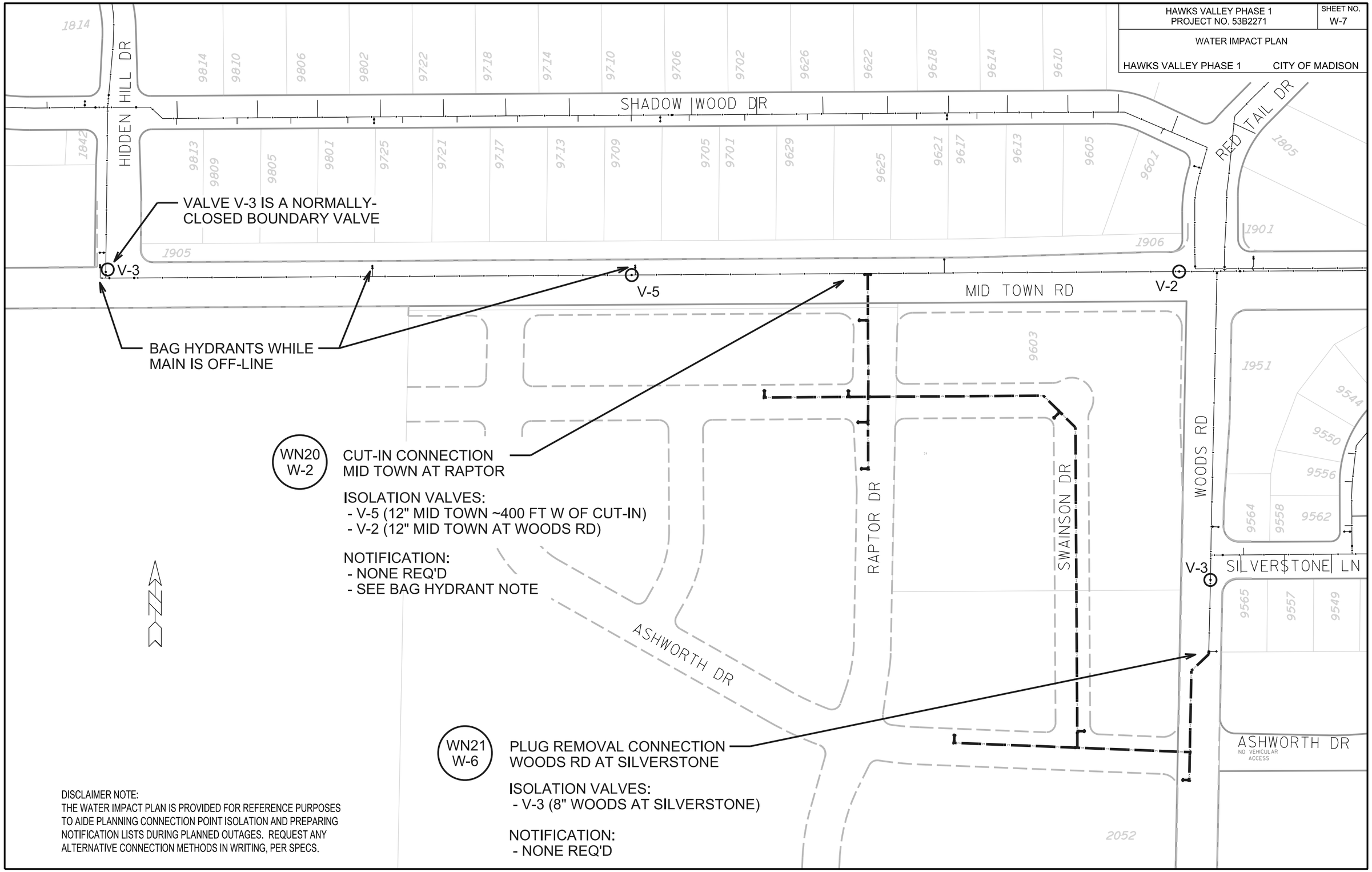
DATE: 6/10/2015

HAWKS VALLEY PHASE 1
PROJECT NO. 53B2271

SHEET NO.
W-7

WATER IMPACT PLAN

HAWKS VALLEY PHASE 1 CITY OF MADISON



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: $$....designfile....$$

DATE: $$...plottingdate...$$

HAWKS VALLEY PHASE 1 PROJECT NO. 53B2271	SHEET NO. W-8
WATER ESTIMATE OF MATERIALS	
HAWKS VALLEY PH. 1	CITY OF MADISON

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

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

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

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

MEMBER
ONE CALL SYSTEMS INTERNATIONAL

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

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

130-FT - 6-IN PIPE	4 - 8-IN 45° BEND
1980-FT - 8-IN PIPE	
10-FT - 12-IN PIPE	5 - 8-IN MJ PLUG
2440-FT - POLYWRAP	9 - 5-IN HYDRANT
9 - 6-IN VALVE & BOX	56 - LF 2-IN FOAM INSULATION
9 - 8-IN VALVE & BOX	
2 - 12-IN VALVE & BOX	COPPER SERVICE TUBING & COUPLINGS (AS REQ'D)
9 - 8-IN X 6-IN TEE	HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQ'D)
1 - 8-IN X 8-IN TEE	
1 - 12-IN X 8-IN TEE	QUANTITES MAY DIFFER IF PHASES 1& 2 ARE BUILT CONCURRENTLY
2 - 8-IN X 8-IN CROSS	

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

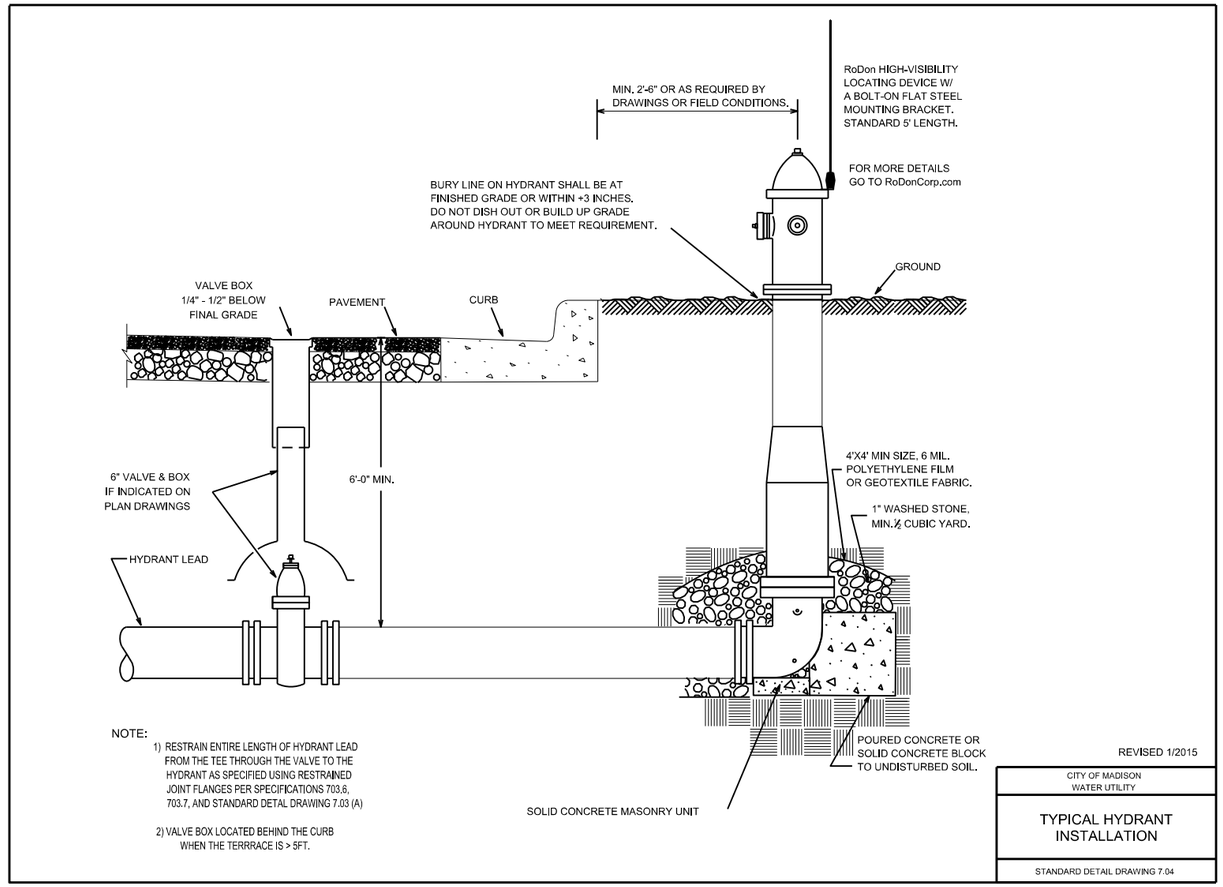
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

NONE

ESTIMATE OF MATERIALS SALVAGED:

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

NONE



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

FILE NAME: M:\DESIGN\Projects\53B2271\Water\Design\2271 Ph1 PnP\53B2271WU-W8 Materials.dgn

DATE: 6/10/2015