

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

HILLCREST DRIVE AND HILLCREST CIRCLE

ASSESSMENT DISTRICT - 2016

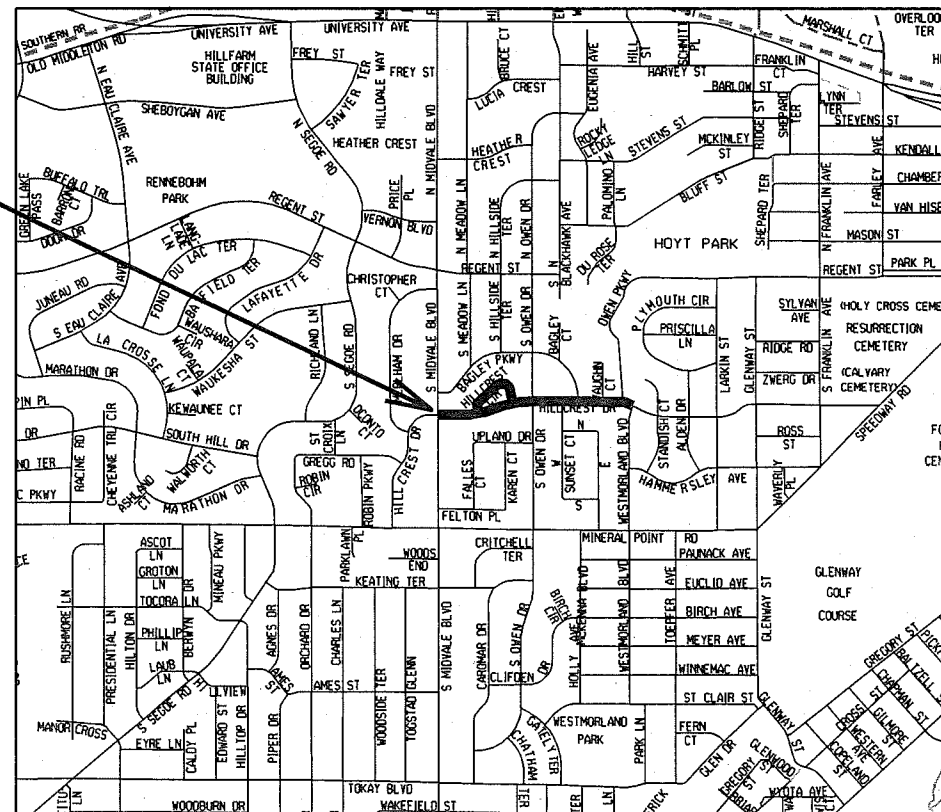
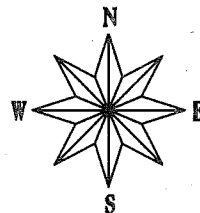
CITY PROJECT NO. 11091

CONTRACT NO. 7627

INDEX OF SHEETS

| SHEET NO. | TITLE |
|-----------|---------------------------------------|
| 1 | TYPICAL SECTIONS |
| D1 | EROSION CONTROL PLANS |
| EC1-EC3 | STREET PLAN & PROFILES |
| P1-P6 | SEWERS PLAN & PROFILES |
| U1-U7 | SEWER SCHEDULES |
| U8-U10 | WATER PLAN & PROFILES |
| W1-W7 | EXISTING WATER SYSTEM IMPACT PLAN |
| W8-W9 | WATER ESTIMATE OF MATERIALS & DETAILS |
| W10 | CROSS SECTIONS |
| X1-X14 | |

PROJECT LOCATION



CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

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

NOTES:

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

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

EARTH WORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY).....3,980 C.Y.

ESTIMATED UNDISTRIBUTED UNDERCUT.....440 C.Y.

TOTAL UNCLASSIFIED EXCAVATION CUT.....4,420 C.Y.

PUBLIC IMPROVEMENT PROJECT APPROVED

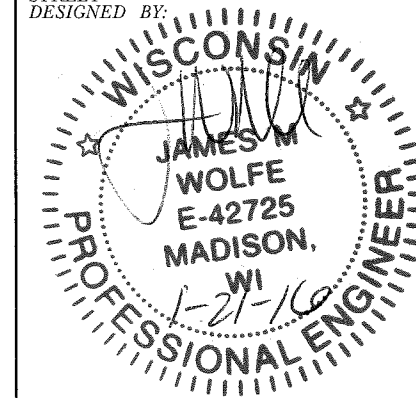
JANUARY 5, 2016

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

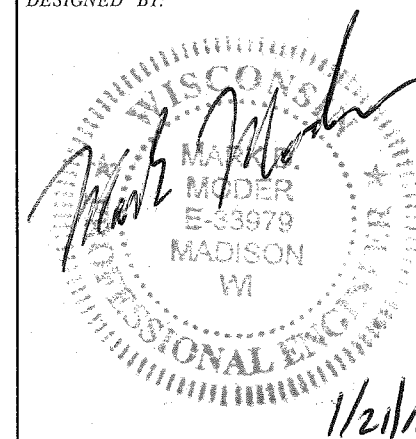
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 1/25/16
City Engineer Date

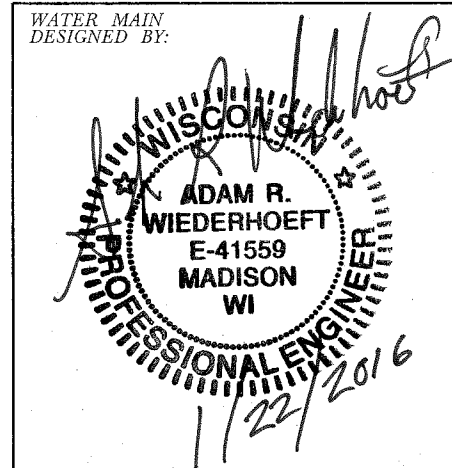
STREET
DESIGNED BY:



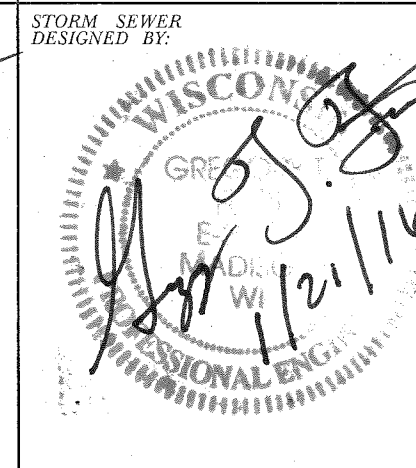
SANITARY SEWER
DESIGNED BY:

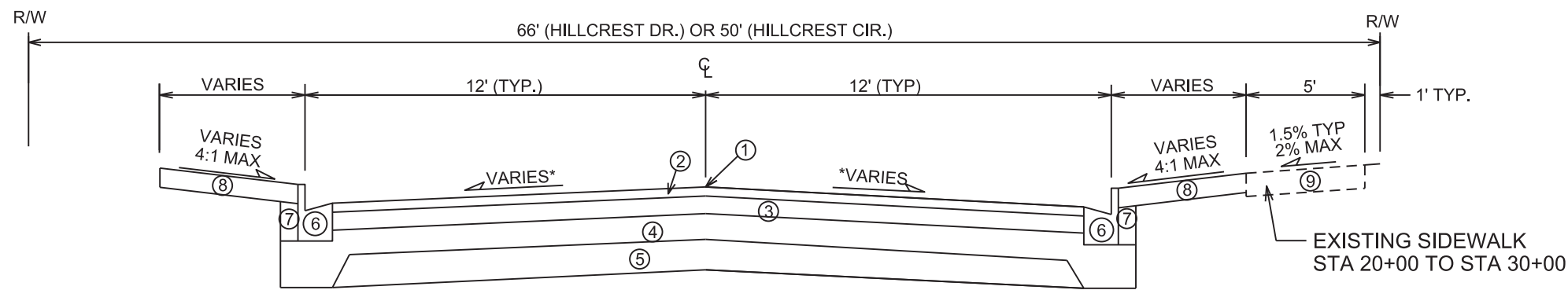


WATER MAIN
DESIGNED BY:



STORM SEWER
DESIGNED BY:

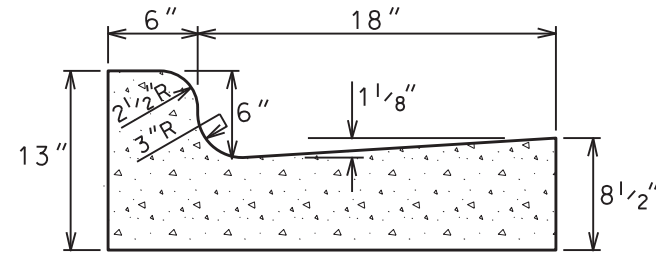




**TYPICAL FINISHED SECTION
HILLCREST DR. & HILLCREST CIR.**

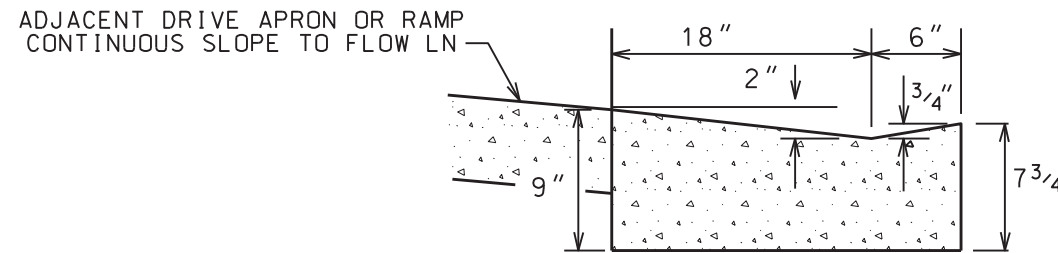
- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 1 3/4" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ MODIFIED TYPE 'A' OR 'X' CONC CURB & GUTTER (SEE DETAIL)
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL AND SOD
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS SHOWN ON PLAN OR AS DIRECTED

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.
TYPICAL SECTIONS NOT TO SCALE



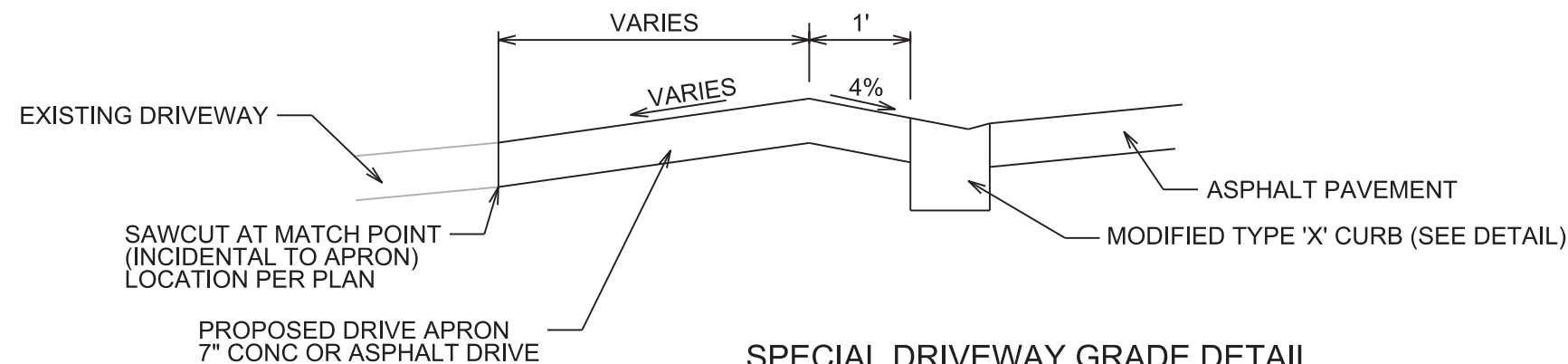
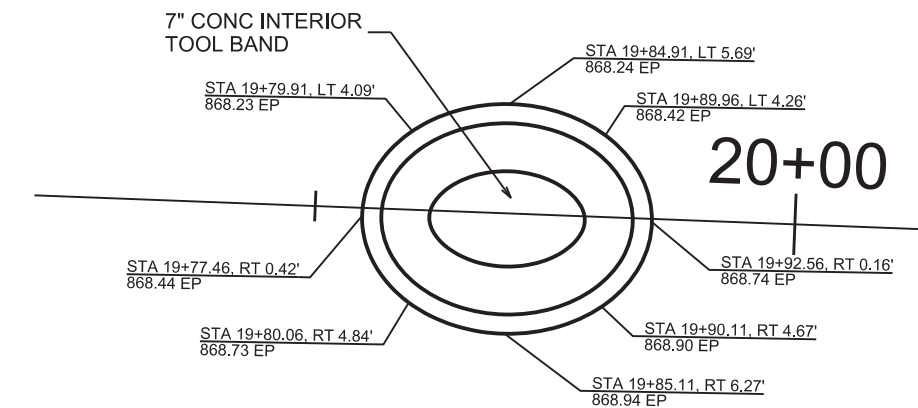
MODIFIED TYPE 'A' CURB & GUTTER
PAY AS TYPE 'A' CONC CURB & GUTTER
NOT TO SCALE

NOTE: EDGE OF GUTTER SHALL BE FLARED OUT TO 24" AT ALL INLET LOCATIONS OVER A MINIMUM 6 FT. IN LENGTH. FLARING OUT OF GUTTER SHALL BE CONSIDERED INCIDENTAL TO THE CURB & GUTTER.



MODIFIED TYPE 'X' CURB & GUTTER
PAY AS TYPE 'X' CONC CURB & GUTTER
NOT TO SCALE

TRAFFIC CIRCLE GRADE DETAIL
NOT TO SCALE



SPECIAL DRIVEWAY GRADE DETAIL
NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

HILLCREST DR. CITY OF MADISON

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

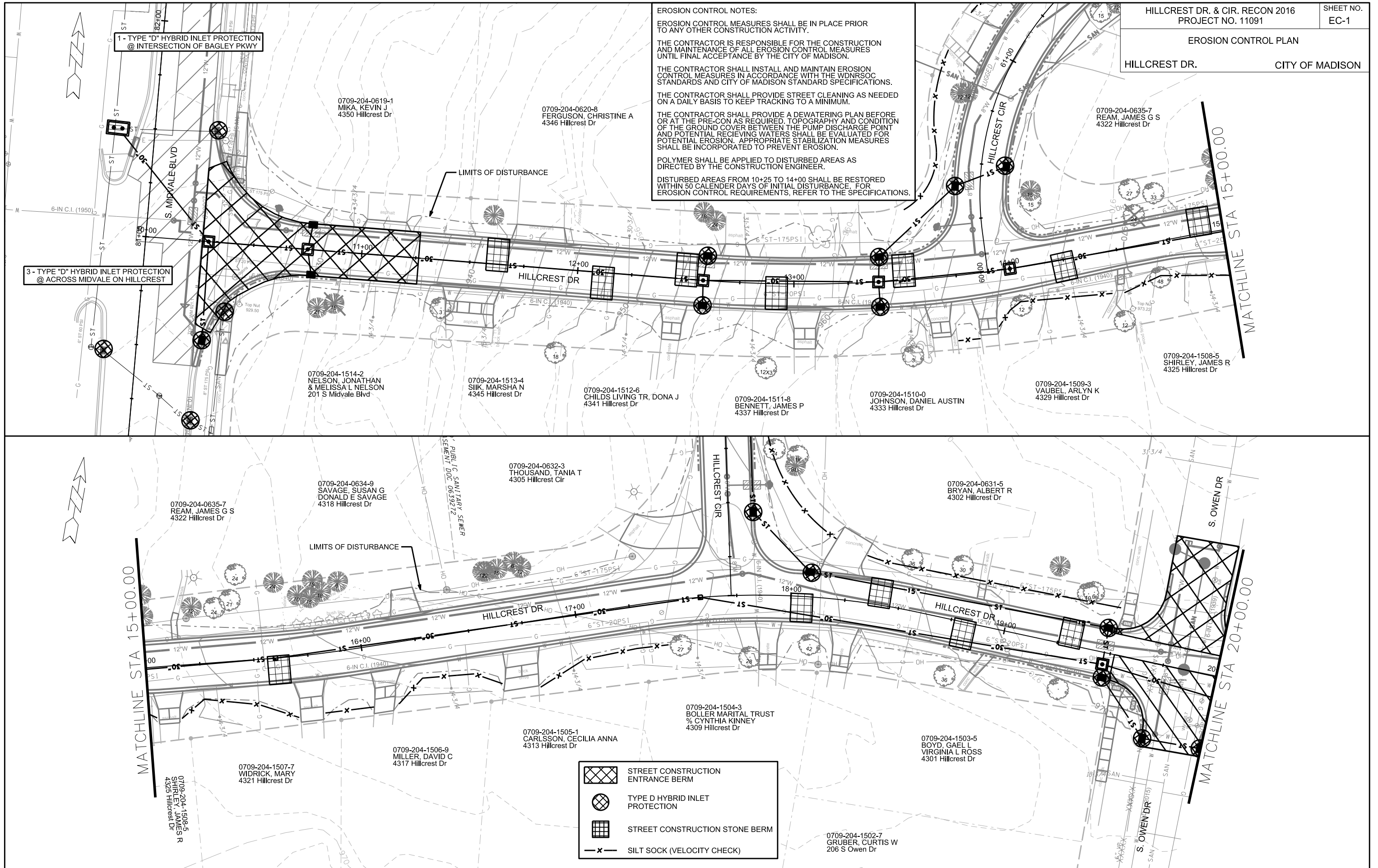
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDRS/C STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

THE CONTRACTOR SHALL PROVIDE A DEWATERING PLAN BEFORE OR AT THE PRE-CON AS REQUIRED. TOPOGRAPHY AND CONDITION OF THE GROUND COVER BETWEEN THE PUMP DISCHARGE POINT AND POTENTIAL RECEIVING WATERS SHALL BE EVALUATED FOR POTENTIAL EROSION. APPROPRIATE STABILIZATION MEASURES SHALL BE INCORPORATED TO PREVENT EROSION.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

DISTURBED AREAS FROM 10+25 TO 14+00 SHALL BE RESTORED WITHIN 50 CALENDAR DAYS OF INITIAL DISTURBANCE. FOR EROSION CONTROL REQUIREMENTS, REFER TO THE SPECIFICATIONS.



| | |
|--|-----------------------------------|
| | STREET CONSTRUCTION ENTRANCE BERM |
| | TYPE D HYBRID INLET PROTECTION |
| | STREET CONSTRUCTION STONE BERM |
| | SILT SOCK (VELOCITY CHECK) |

1 - TYPE "D" HYBRID INLET PROTECTION @ INTERSECTION OF BAGLEY PKWY

3 - TYPE "D" HYBRID INLET PROTECTION @ ACROSS MIDVALE ON HILLCREST

PLOT SCALE = 1 : 40

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

HILLCREST DR. CITY OF MADISON

MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00

EROSION CONTROL NOTES:

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-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM

2 - TYPE "D" HYBRID INLET PROTECTION @ INTERSECTION OF N. SUNSET CT

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

0709-204-0706-6
SANCHEZ, PABLO
& KATHRYN M SANCHEZ
125 S Owen Dr

0709-204-0707-4
SIORDIA, LEAH S
4206 Hillcrest Dr

0709-204-0708-2
GRIFFITH REV TR, DAVID W
4204 Hillcrest Dr

0709-204-0709-0
BREDEN, AMY A
4200 Hillcrest Dr

0709-204-0235-5
KELENY, EARL
4202 Bagley Pkwy

0709-204-1050-6
MORRISSEY, DONNA M
4205 Hillcrest Dr

0709-204-1049-9
COURTENAY, WILLIAM T
ERIN COURTENAY
204 W Sunset Ct

0709-204-0810-5
MCHUGH, THOMAS W
& MARY C MAHON
4137 Hillcrest Dr

0709-204-0809-8
STEWART, BRADLEY A
JAYME M CALLAHAN
4133 Hillcrest Dr

0709-204-0808-0
NIELSEN, ZACHARY T
KIMBERLY K NIELSEN
4129 Hillcrest Dr

0709-204-0106-8
DUNN, JAMES F
125 Vaughn Ct

0709-204-2101-6
CITY OF MADISON PARKS
91 Owen Pkwy

0709-213-0601-9
PIERCE LIV TR, RD & PD
4010 Hillcrest Dr

0709-204-0807-2
NAUGHTON, KATHLEEN F
4125 Hillcrest Dr

0709-204-0806-4
BEDFORD, STEPHANIE A
4121 Hillcrest Dr

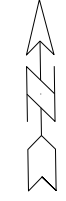
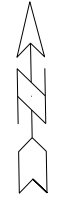
0709-204-0805-6
GERMANN, KATHY
4117 Hillcrest Dr

0709-204-0804-8
DUNLAP, DELFA
4113 Hillcrest Dr

0709-204-0803-0
XENOS, MICHAEL A
JENELL M JOHNSON
4109 Hillcrest Dr

0709-204-0802-2
SMITH, JOHN R & JOAN K
4105 Hillcrest Dr

0709-204-0801-4
WEINHOLD, CRAIG E
4101 Hillcrest Dr



PLOT SCALE = 1 : 40

PLOT NAME:

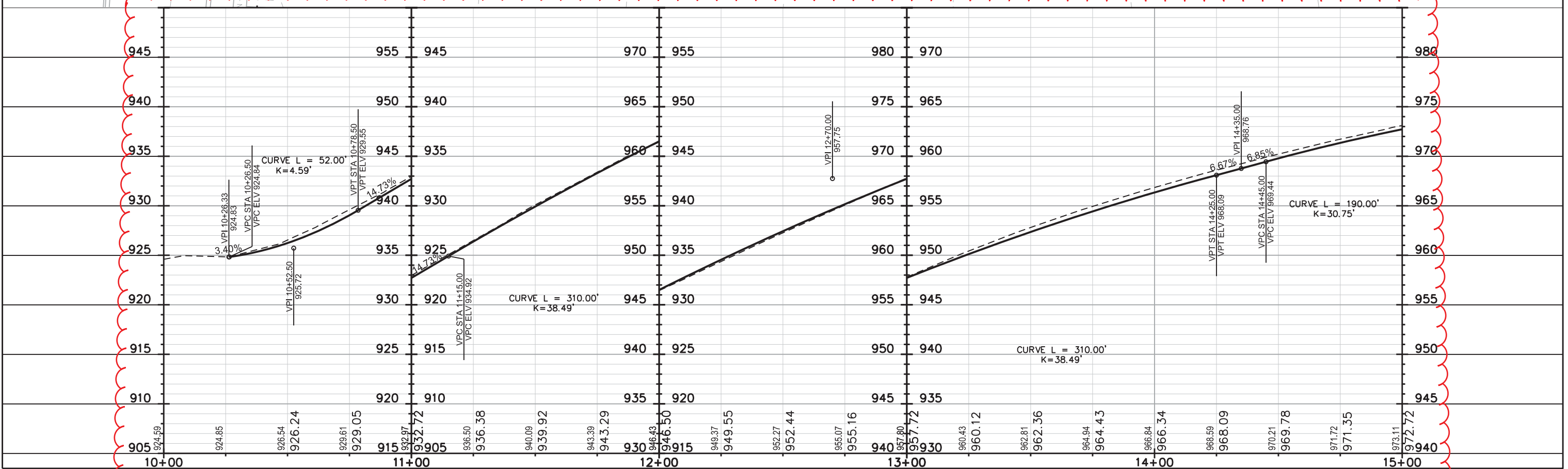
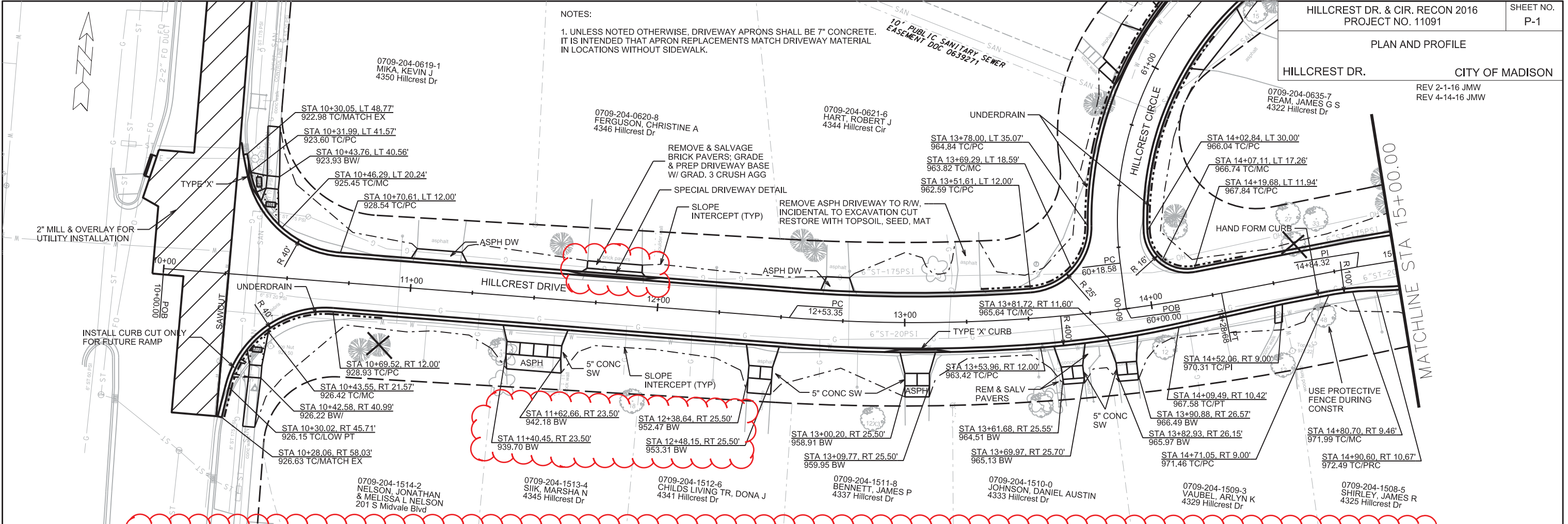
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

HILLCREST DR. CITY OF MADISON
REV 2-1-16 JMW
REV 4-14-16 JMW

NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE. IT IS INTENDED THAT APRON REPLACEMENTS MATCH DRIVEWAY MATERIAL IN LOCATIONS WITHOUT SIDEWALK.

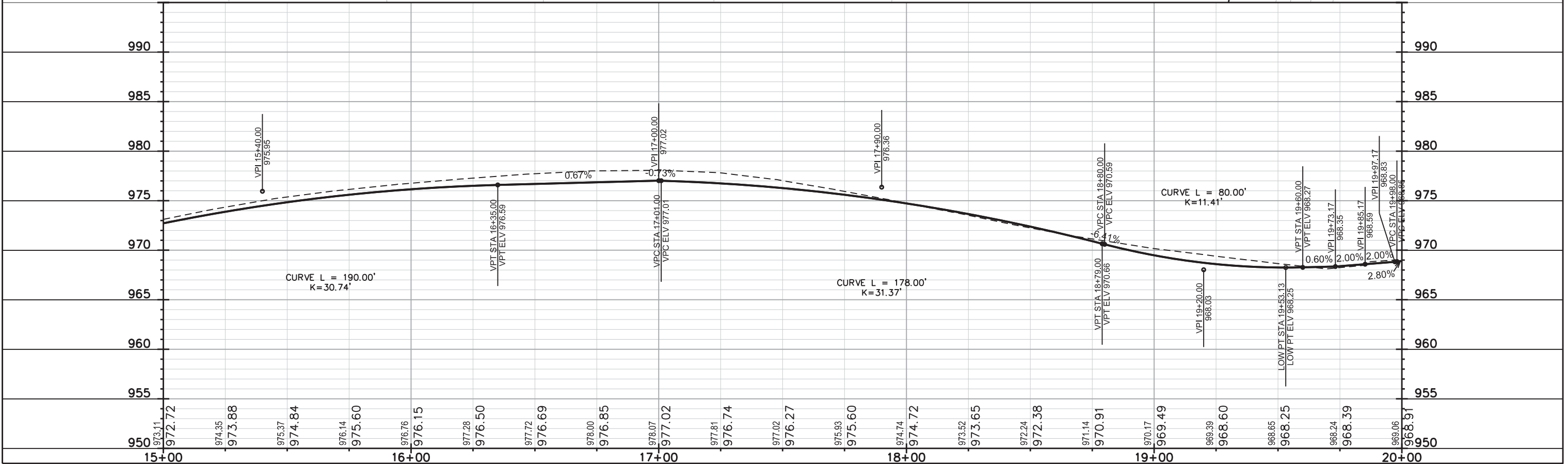
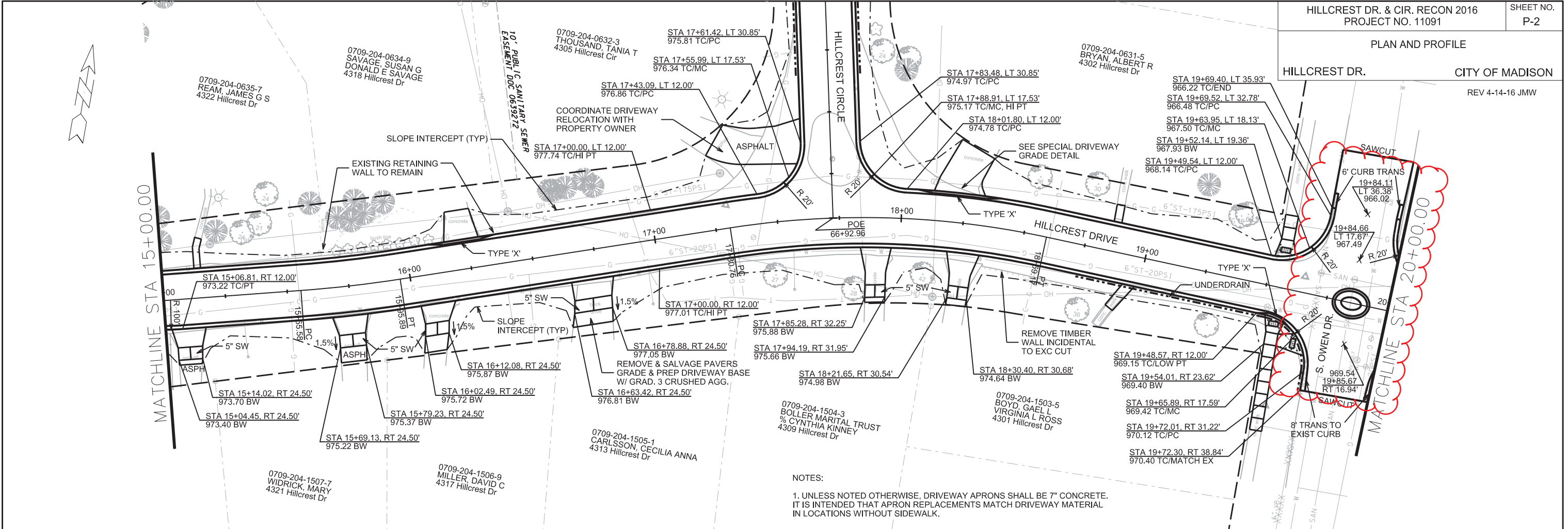


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

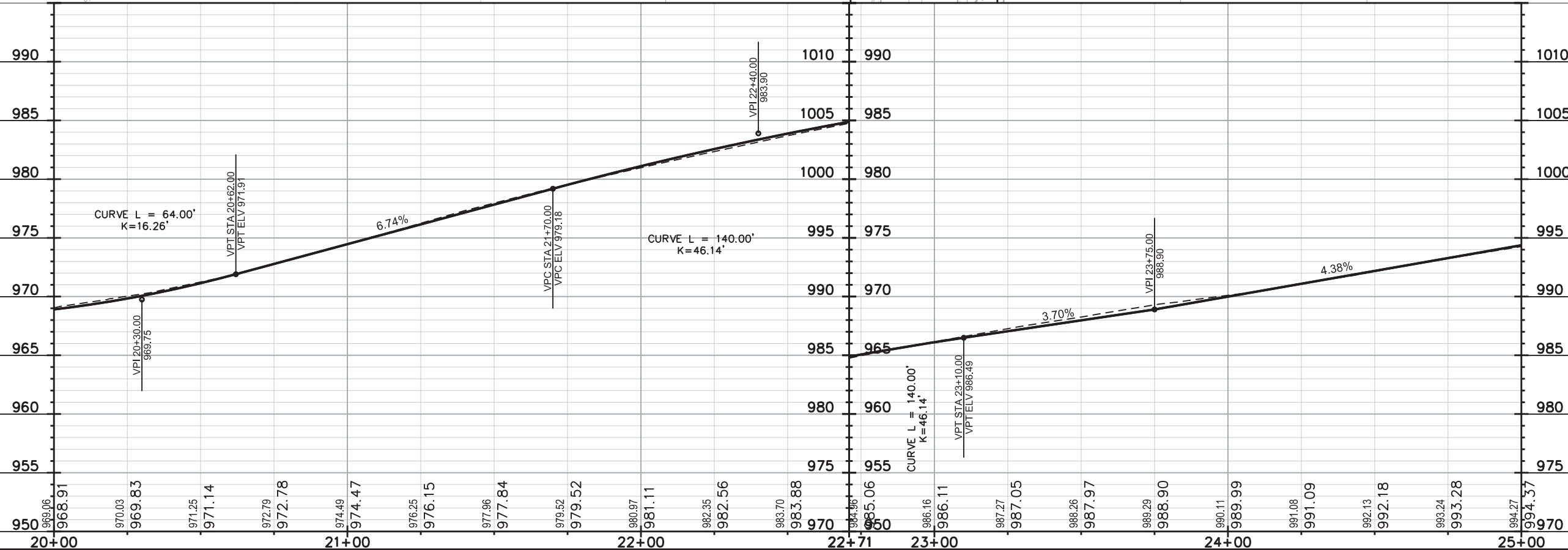
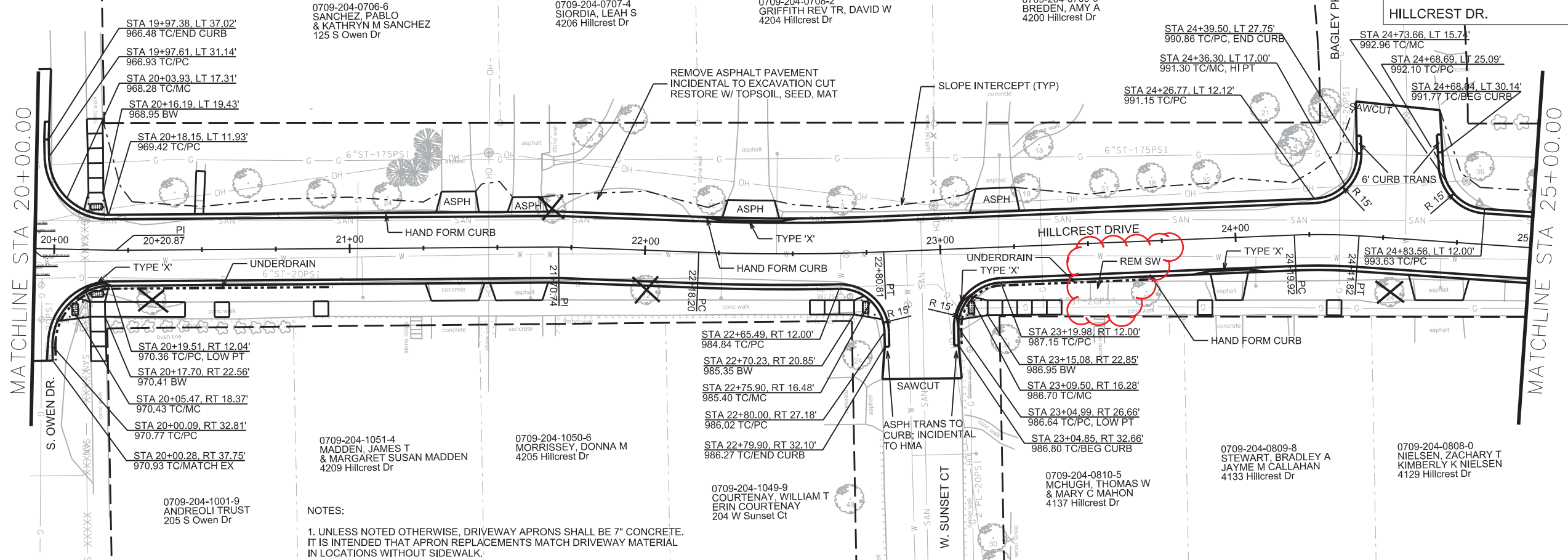


REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

HILLCREST DR. CITY OF MADISON



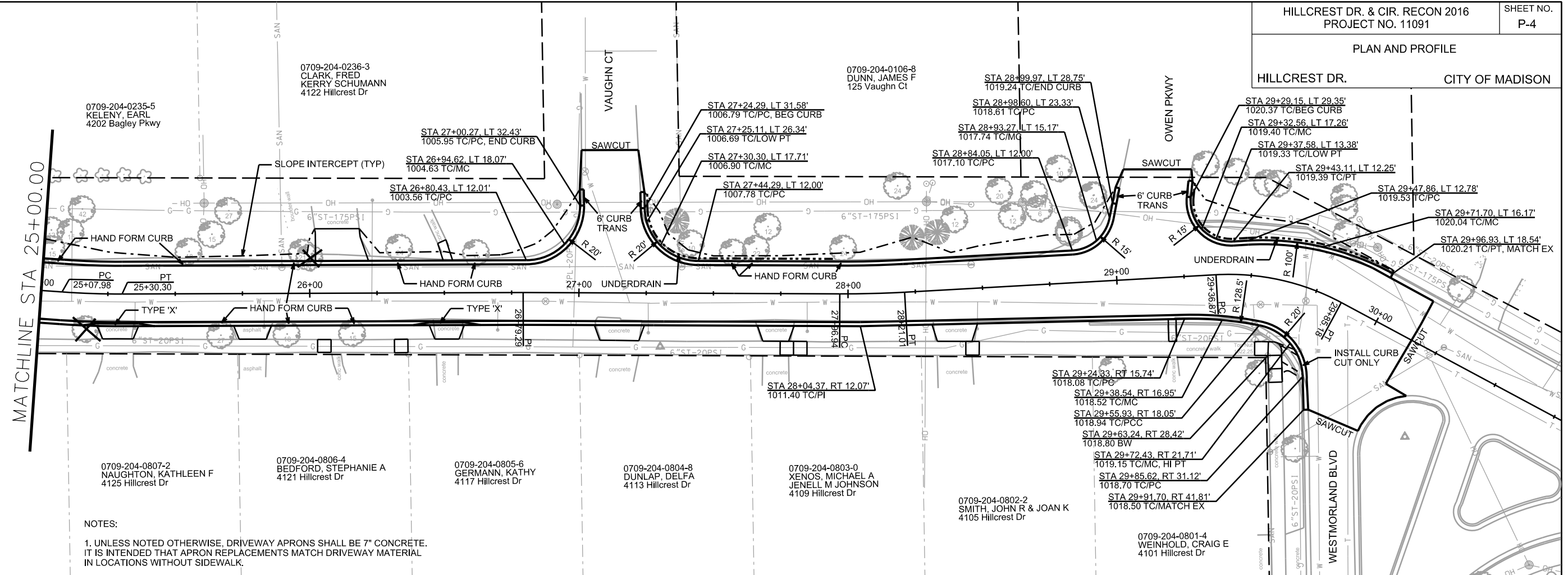
NOTES:
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PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____

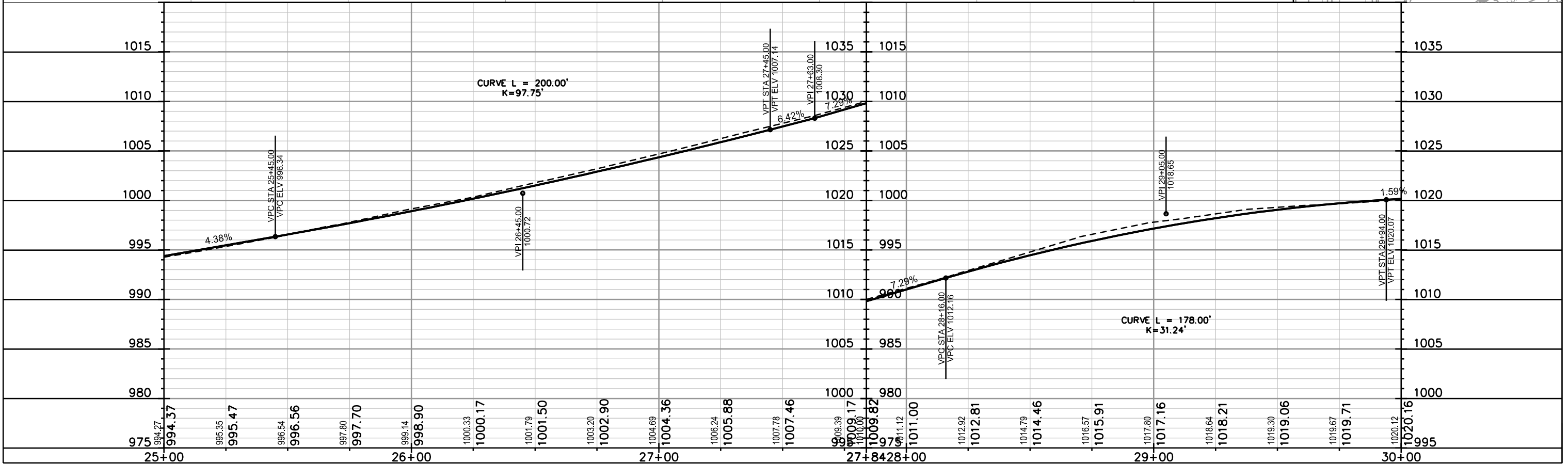
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

HILLCREST DR. CITY OF MADISON



NOTES:
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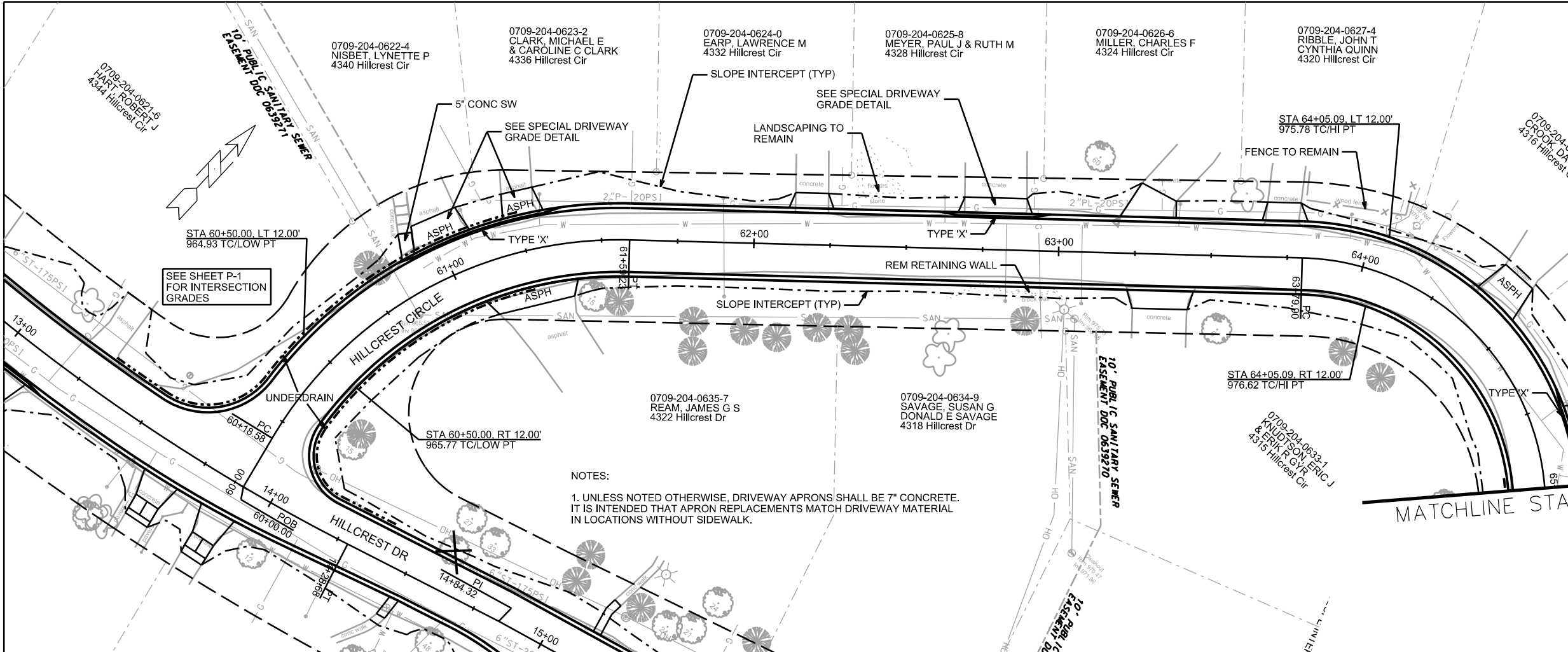


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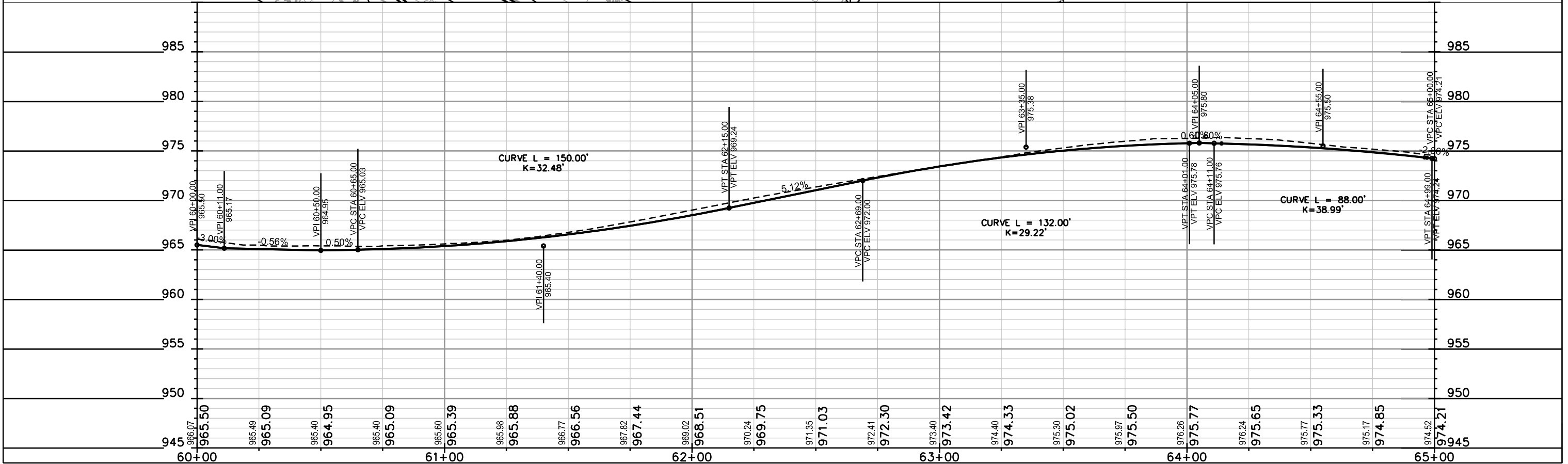
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7\"/>

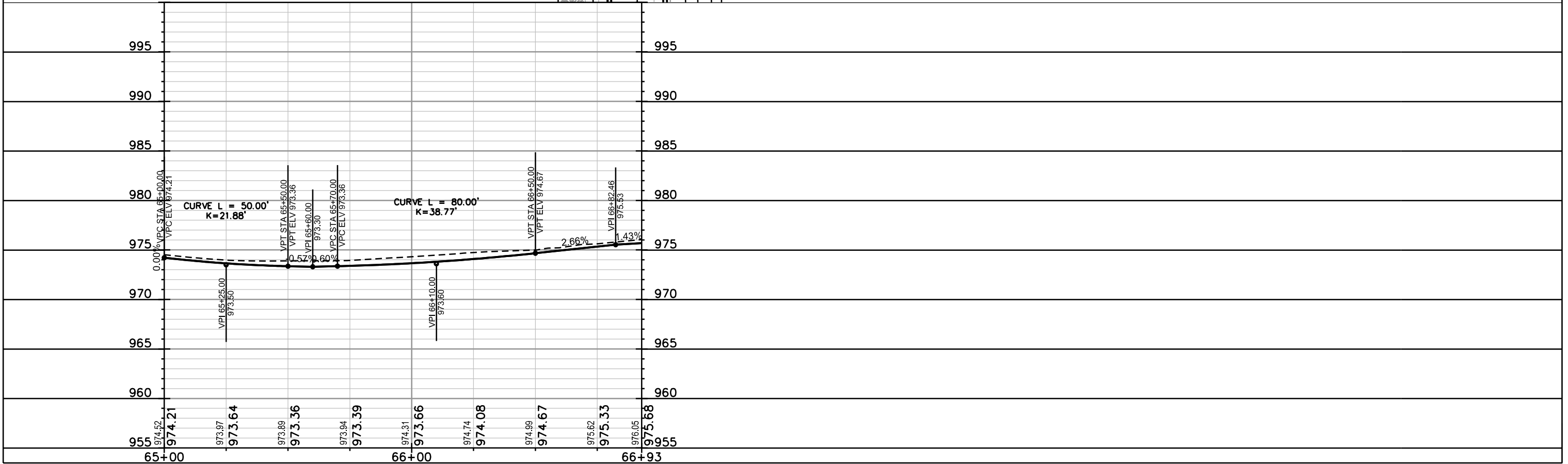
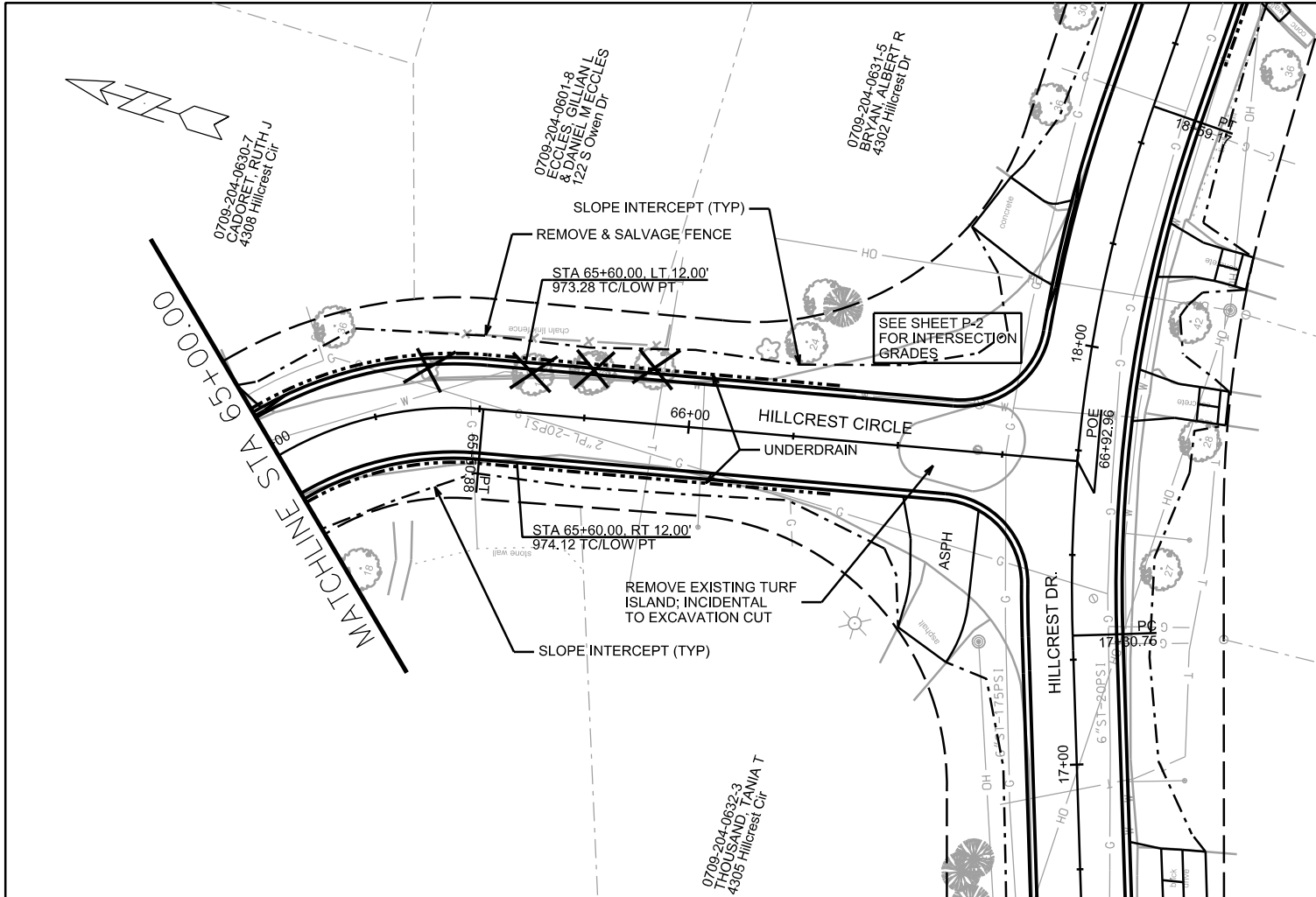


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0709-204-0632-3
THOUSAND, TANIA T
4305 Hillcrest Cir

STA 66+10.05, RT 19.87'
975.75 @ POINT

STA 66+30.25, RT 22.20'
976.65 @ POINT

STA 66+35.57, RT 24.54'
976.0'

STA 66+37.88, RT 19.37'
974.12'

STA 66+52.41, RT 23.84'
976.32'

STA 66+15.05, RT 13.00'
974.74

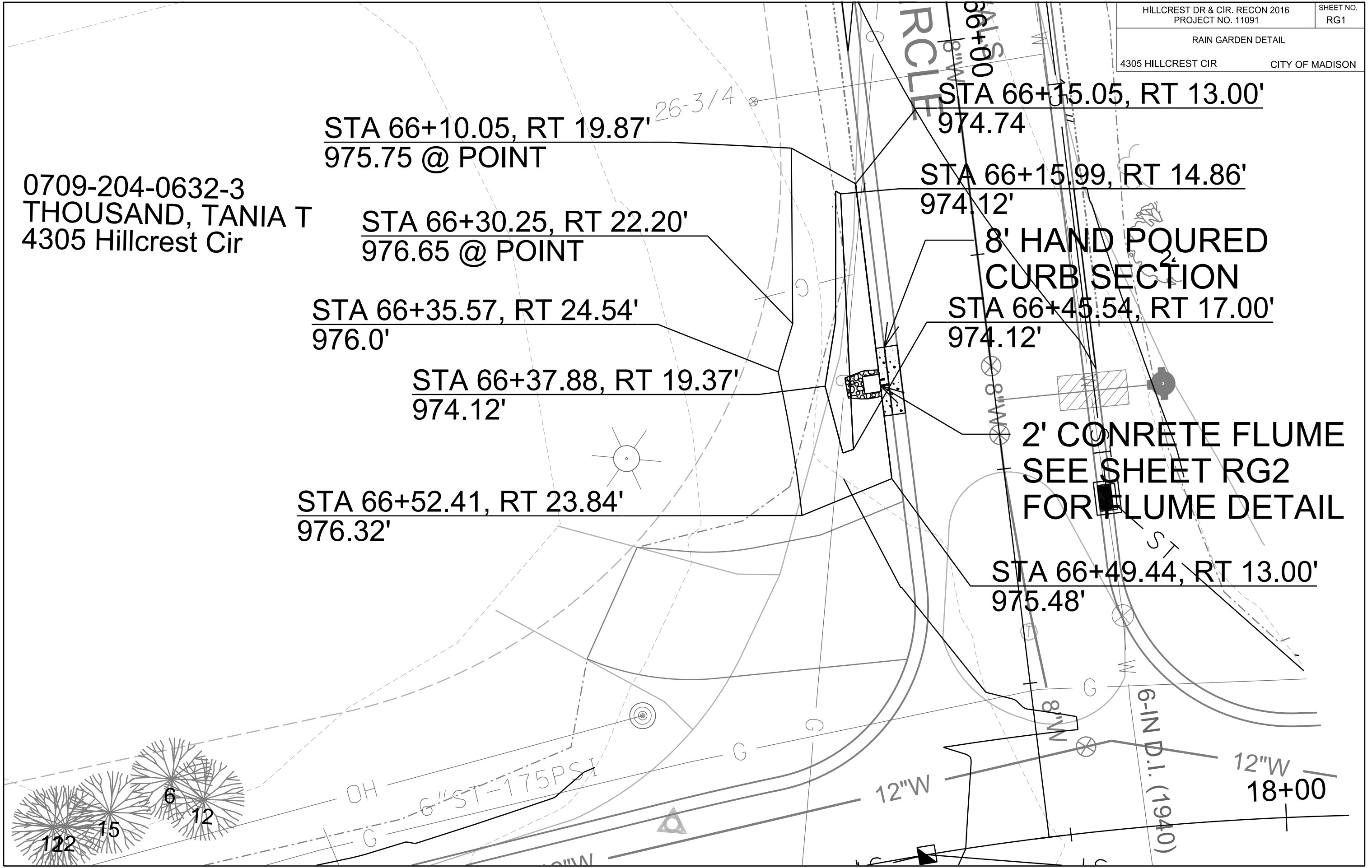
STA 66+15.99, RT 14.86'
974.12'

8' HAND POURED
CURB SECTION

STA 66+45.54, RT 17.00'
974.12'

2' CONCRETE FLUME
SEE SHEET RG2
FOR FLUME DETAIL

STA 66+49.44, RT 13.00'
975.48'

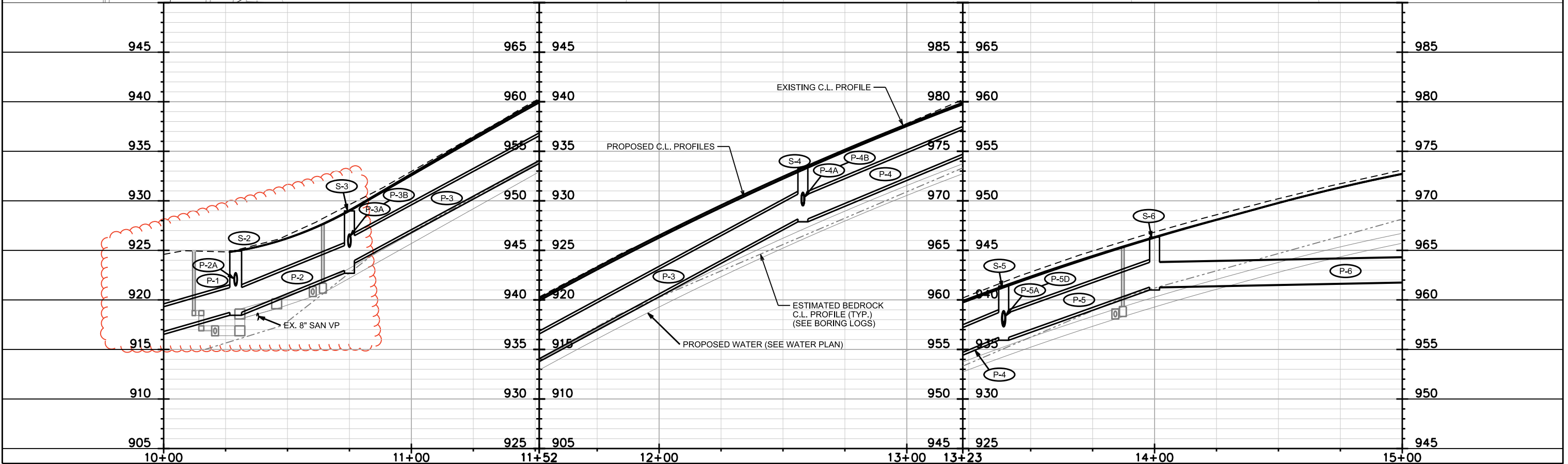
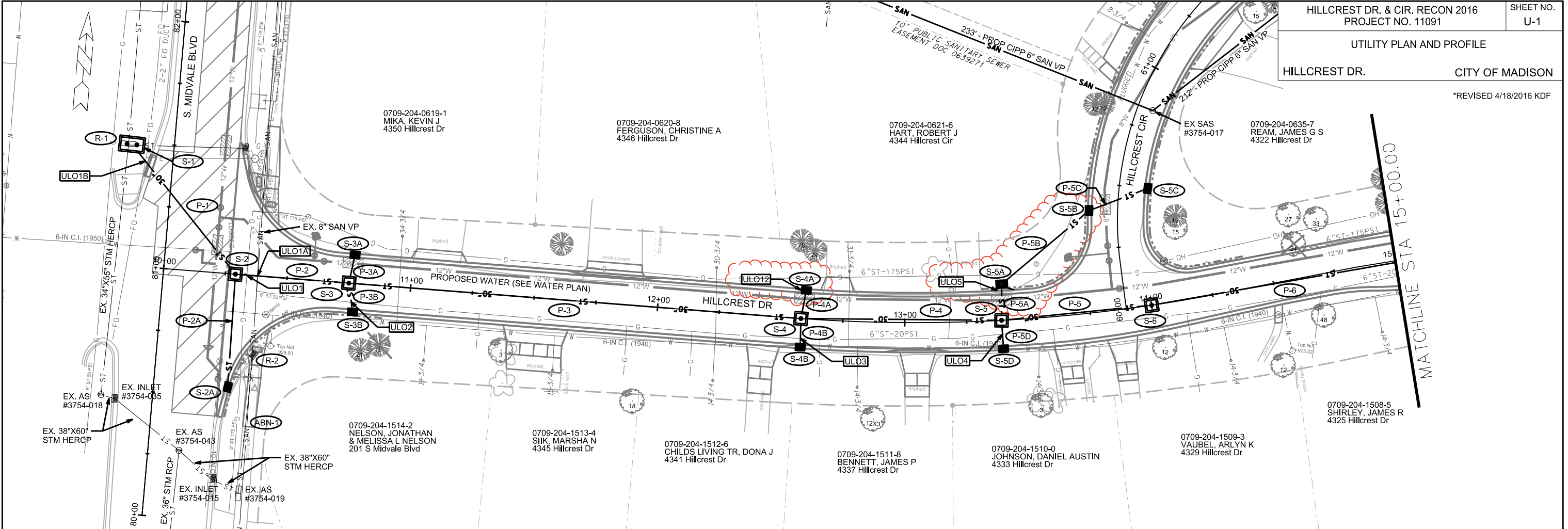


PLOT SCALE: 10

PLOT NAME: RG1

REV. DATE: 06/28/2016

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

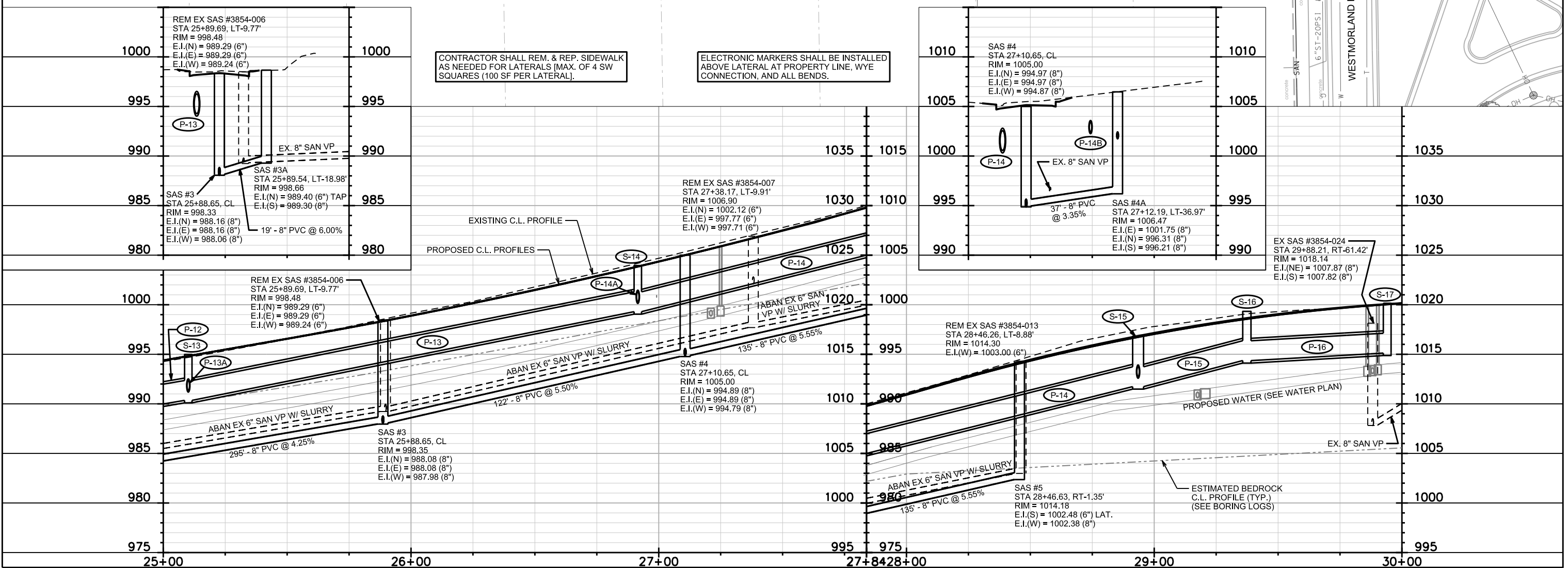
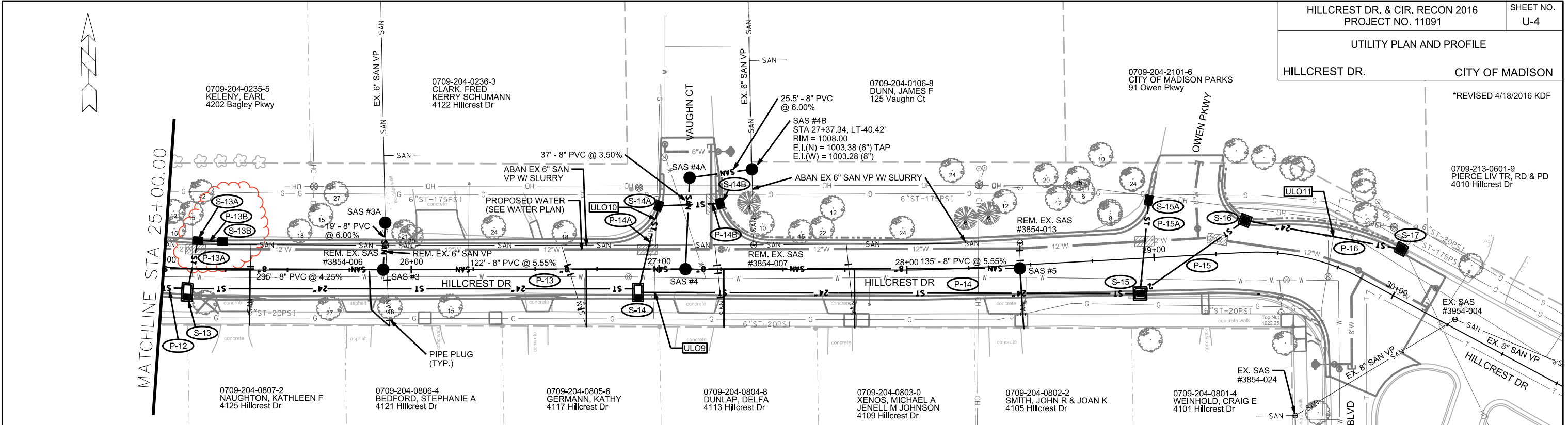


PLOT SCALE = 1 : 40

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE = 1 : 40

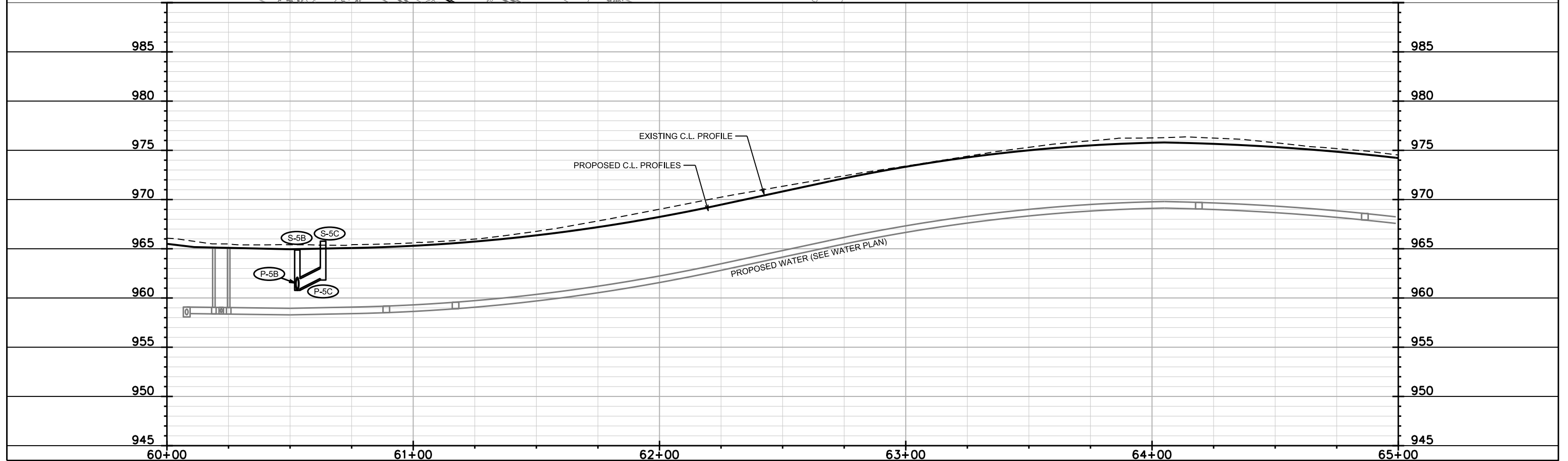
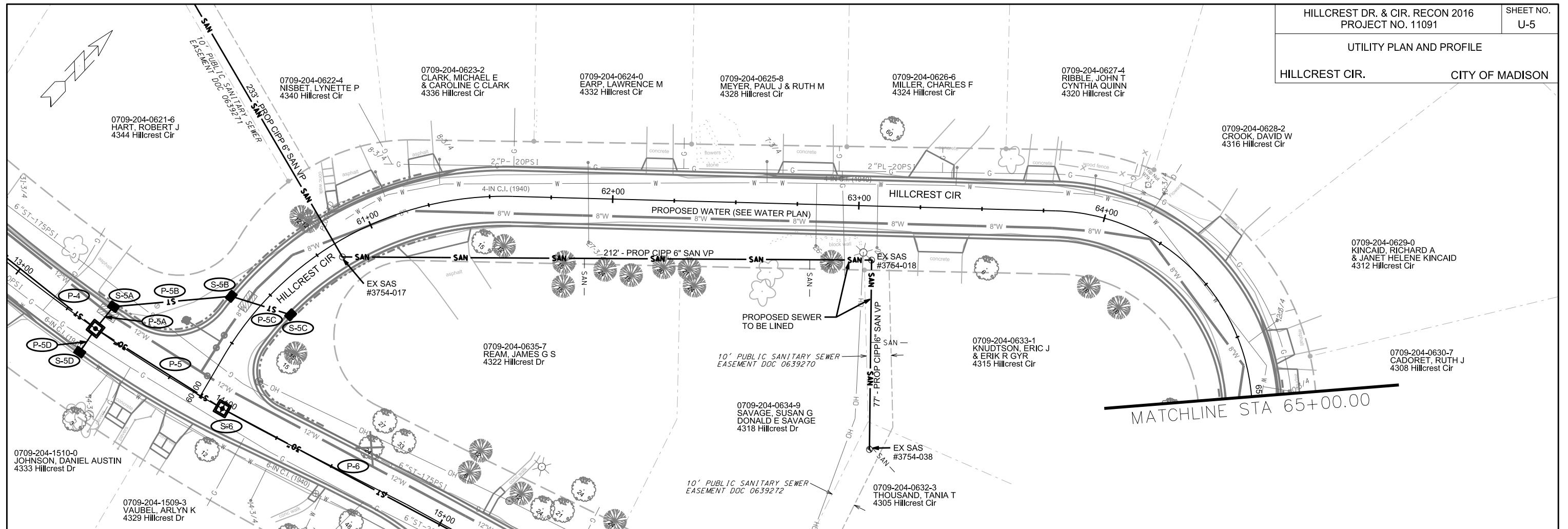
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE

HILLCREST CIR. CITY OF MADISON

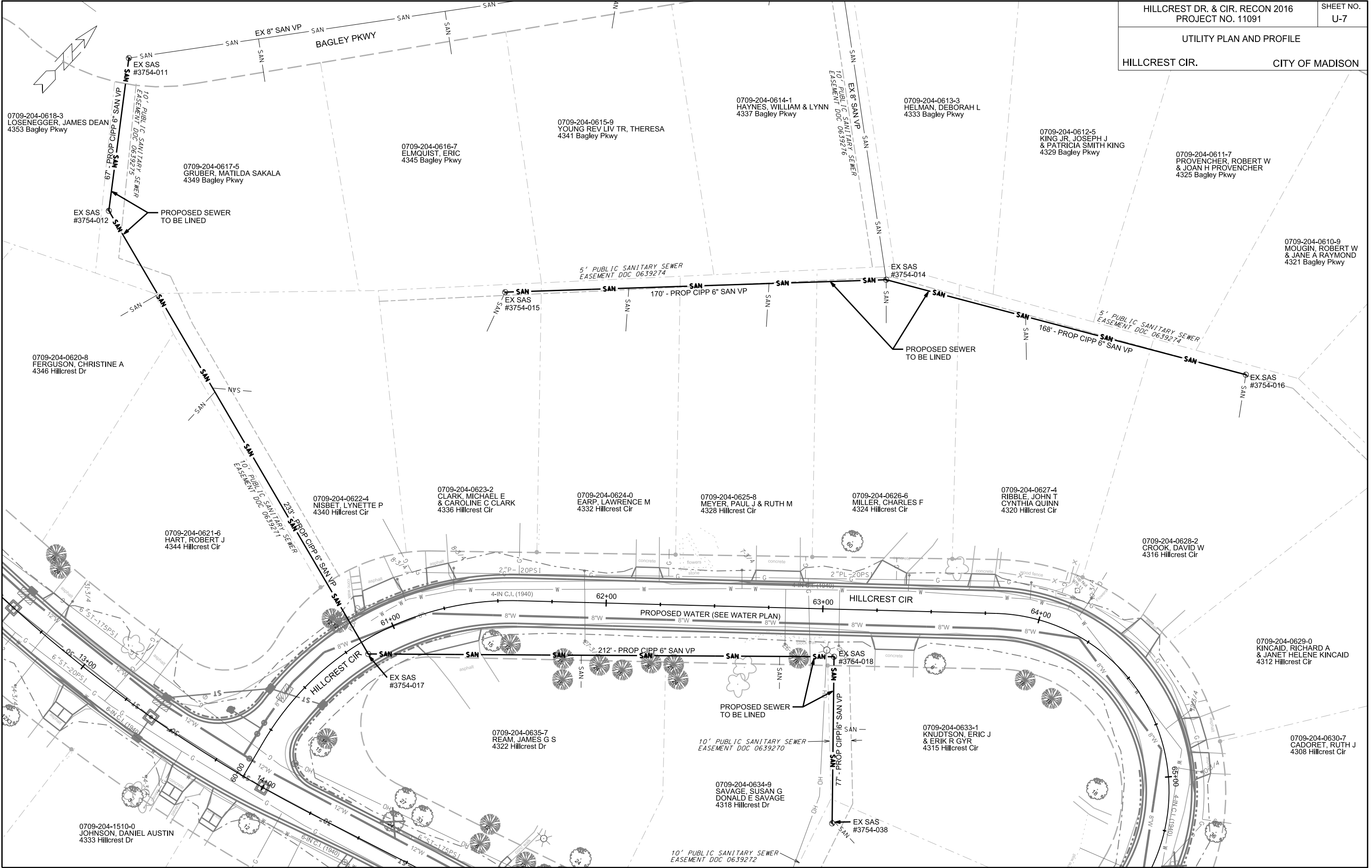


PLOT SCALE = 1 : 40

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE = 1 : 40
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

*REV 4/18/2016 KDF

| | |
|---------------------------------|-----------------|
| HILLCREST DR. & CIR. RECON 2016 | SHEET NO. |
| PROJECT NO. 11091 | U-8 |
| SANITARY SEWER SCHEDULE | |
| HILLCREST DR. & CIR. | CITY OF MADISON |

PROPOSED SANITARY STRUCTURES

| SAS NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH | NOTES |
|------------------------|----------|-------------------|----------------|---------|-------------|-------|
| HILLCREST DRIVE | | | | | | |
| SAS #1 | 19+69.14 | LT-53.54 | 964.24 | 959.00 | 5.24 | - |
| SAS #1A | 19+83.71 | LT-50.00 | 964.72 | 959.40 | 5.32 | - |
| * SAS #1B | 19+84.79 | CL | 969.08 | 962.90 | 6.18 | - |
| SAS #2 | 22+93.39 | LT-0.64 | 985.85 | 975.34 | 10.51 | - |
| SAS #2A | 22+92.78 | RT-39.35 | 986.60 | 977.26 | 9.34 | - |
| SAS #3 | 25+88.65 | CL | 998.35 | 987.98 | 10.37 | - |
| SAS #3A | 25+89.54 | LT-18.98 | 998.66 | 989.22 | 9.44 | - |
| SAS #4 | 27+10.65 | CL | 1005.00 | 994.79 | 10.21 | - |
| SAS #4A | 27+12.19 | LT-36.97 | 1006.47 | 996.13 | 10.34 | - |
| SAS #4B | 27+37.34 | LT-40.42 | 1008.00 | 1003.28 | 4.72 | - |
| SAS #5 | 28+45.63 | RT-1.35 | 1014.18 | 1002.38 | 11.80 | - |

REMOVE SANITARY STRUCTURES

| STRUC. ID NO. | STATION | LOCATION (OFFSET) | TOP OF CASTING | E.I. | DEPTH | NOTES |
|------------------------|----------|-------------------|----------------|---------|-------|-------|
| HILLCREST DRIVE | | | | | | |
| SAS 3854-003 | 19+70.65 | LT-9.24 | 967.69 | 962.71 | 4.98 | - |
| SAS #1 | 19+84.43 | LT-9.52 | 967.93 | 962.85 | 5.08 | - |
| SAS 3854-004 | 20+10.09 | LT-9.73 | 968.92 | 963.10 | 5.82 | - |
| SAS 3854-005 | 22+93.78 | LT-10.61 | 985.78 | 976.80 | 8.98 | - |
| SAS 3854-006 | 25+89.69 | LT-9.77 | 998.48 | 989.24 | 9.24 | - |
| SAS 3854-007 | 27+38.17 | LT-9.91 | 1006.90 | 997.71 | 9.19 | - |
| SAS 3854-013 | 28+46.26 | LT-8.88 | 1014.30 | 1003.00 | 11.30 | - |

PROPOSED SANITARY PIPES

| FROM (DNSTM) | TO (UPSTM) | DWNSTRM E.I. | UPSTRM E.I. | PLAN (PAY) LGTH (FT) | SLOPE (%) | PIPE SIZE | PVC TYPE | NOTES |
|------------------------|------------|--------------|-------------|----------------------|-----------|-----------|----------|-------|
| HILLCREST DRIVE | | | | | | | | |
| SAS #1 | SAS #1A | 959.10 | 959.40 | 15 | 2.00% | 8" | SDR-35 | - |
| SAS #1A | SAS #1B | 959.50 | 962.90 | 50 | 6.80% | 8" | SDR-35 | - |
| SAS #1B | SAS #2 | 963.00 | 975.34 | 308.5 | 4.00% | 8" | SDR-35 | - |
| SAS #2 | SAS #2A | 977.06 | 977.26 | 40 | 0.50% | 8" | SDR-35 | - |
| SAS #2 | SAS #3 | 975.44 | 987.98 | 295 | 4.25% | 8" | SDR-35 | - |
| SAS #3 | SAS #3A | 988.08 | 989.22 | 19 | 6.00% | 8" | SDR-35 | - |
| SAS #3 | SAS #4 | 988.08 | 994.79 | 122 | 5.50% | 8" | SDR-35 | - |
| SAS #4 | SAS #4A | 994.89 | 996.13 | 37 | 3.35% | 8" | SDR-35 | - |
| SAS #4A | SAS #4B | 1001.75 | 1003.28 | 25.5 | 6.00% | 8" | SDR-35 | - |
| SAS #4 | SAS #5 | 994.89 | 1002.38 | 135 | 5.55% | 8" | SDR-35 | - |

REMOVE SANITARY PIPES

| REMOVE FROM | REMOVE TO | LGTH (FT) | PIPE SIZE | PIPE TYPE | PAID (Y/N) | NOTES |
|------------------------|-----------|-----------|-----------|-----------|------------|-------|
| HILLCREST DRIVE | | | | | | |
| EX SAS #3854-003 | EX SAS #1 | 10 | 8" | VP | N | - |
| SAS #2 | SAS #2A | 45 | 8" | VP | N | - |
| EX SAS #3854-005 | SAS #2 | 5 | 8" | VP | N | - |
| EX. SAS #3854-006 | SAS #3A | 10 | 8" | VP | N | - |

SANITARY SEWER CURED-IN-PLACE-PIPE (CIPP)

| FROM (DNSTM) | TO (UPSTM) | LGTH (FT) | PIPE SIZE | PIPE TYPE | NOTES |
|-------------------|-------------------|-----------|-----------|-----------|-------|
| EX. SAS #3754-011 | EX SAS #3754-012 | 67 | 6" | VP | - |
| EX SAS #3754-012 | EX SAS #3754-017 | 233 | 6" | VP | - |
| EX SAS #3754-017 | EX SAS #3754-018 | 212 | 6" | VP | - |
| EX SAS #3754-018 | EX SAS #3754-038 | 77 | 6" | VP | - |
| EX. SAS #3754-014 | EX. SAS #3754-015 | 170 | 6" | VP | - |
| EX. SAS #3754-014 | EX. SAS #3754-016 | 168 | 6" | VP | - |

SANITARY SEWER ABANDONMENTS

| FROM (DNSTM) | TO (UPSTM) | LGTH (FT) | PIPE SIZE | NOTES |
|------------------|------------------|-----------|-----------|----------|
| SAS #1 | EX SAS #3854-004 | 39 | 8" | (1), (2) |
| EX. SAS #1 | EX SAS #3854-004 | 22 | 8" | (1), (2) |
| EX SAS #3854-004 | EX SAS #3854-005 | 279 | 8" | (1), (2) |
| EX SAS #3854-005 | EX SAS #3854-006 | 292 | 6" | (1), (2) |
| EX SAS #3854-006 | EX SAS #3854-007 | 144.5 | 6" | (1), (2) |
| EX SAS #3854-007 | EX SAS #3854-009 | 25 | 6" | (1), (2) |
| EX SAS #3854-007 | EX SAS #3854-013 | 103.5 | 6" | (1), (2) |

SPECIFIC NOTES

- (1) ALL PIPE PLUGS INCIDENTAL (LESS THAN 10")
- (2) ABANDON SEWER PIPE WITH SLURRY, PAID UNDER BID ITEM 20335

STORM SEWER SCHEDULE

REV 2/1/2016 KDF
*REV 4/18/2016 KDF

HILLCREST DR. & CIR. RECON 2016
PROJECT NO. 11091
SHEET NO.
U-9

STORM SEWER SCHEDULE

HILLCREST DR. & CIR. CITY OF MADISON

PROPOSED STORM STRUCTURES

| STRUC. NO. | STATION | LOCATION (OFFSET) | TYPE | TOP OF CASTING | E.I. | DEPTH | NOTES |
|-----------------------------|-----------------|-------------------|--------------------------|----------------|---------------|-------------|------------------------------|
| S. MIDVALE BOULEVARD | | | | | | | |
| S-1 | 81+48.87 | LT-17.10 | 5X9 SAS | 921.50 | 915.78 | 5.72 | FP, W/TWIN (2) R-1550-0054 |
| HILLCREST DRIVE | | | | | | | |
| * S-2 | 10+29.08 | CL | 4X4 SAS | 924.93 | 918.71 | 6.22 | W/R-1550-0054 |
| S-2A | 10+29.52 | RT-45.63 | H INLET | 926.15 | 922.43 | 3.72 | LP, UD, W/R-3067-7004-VB |
| * S-3 | 10+75.00 | CL | 4X4 SAS | 929.05 | 922.98 | 6.07 | W/R-1550-0054 |
| * S-3A | 10+76.62 | LT-11.50 | H INLET | 929.34 | 925.54 | 3.80 | W/R-3067-7004-V |
| * S-3B | 10+77.38 | CL | H INLET | 930.01 | 926.87 | 3.14 | UD, W/R-3067-7004-V |
| * S-4 | 12+58.04 | CL | 4X4 SAS | 953.33 | 948.17 | 5.16 | W/R-1550-0054 |
| * S-4A | 12+59.44 | LT-11.50 | H INLET | 953.54 | 949.73 | 3.81 | W/R-3067-7004-V |
| * S-4B | 12+58.58 | RT-11.50 | H INLET | 954.06 | 949.90 | 4.16 | W/R-3067-7004-V |
| * S-5 | 13+39.09 | CL | 4X4 SAS | 961.40 | 956.22 | 5.18 | W/R-1550-0054 |
| * S-5A | 13+39.96 | LT-14.60 | TERRACE INLET III | 961.32 | 958.56 | 2.76 | (3), FP, UD |
| S-5B | 13+79.32 | LT-41.18 | H INLET | 964.87 | 960.94 | 3.93 | UD, W/R-3067-7004-V |
| S-5C | 14+05.73 | LT-46.81 | H INLET | 965.77 | 961.99 | 3.78 | LP, UD, W/R-3067-7004-VB |
| * S-5D | 13+39.29 | RT-11.50 | H INLET | 962.09 | 956.92 | 5.17 | W/R-3067-7004-V |
| * S-6 | 14+00.00 | CL | 4X4 SAS | 966.34 | 961.29 | 5.05 | W/R-1550-0054 |
| S-7 | 15+60.03 | CL | BEND | 975.70 | 962.08 | 13.62 | (1) |
| S-8 | 17+58.18 | CL | BEND | 976.67 | 963.08 | 13.59 | (1) |
| S-9 | 19+47.45 | RT-5.56 | 4X4 SAS | 968.52 | 964.02 | 4.50 | W/R-1550-0054 |
| S-9A | 19+48.56 | RT-11.50 | H INLET | 969.15 | 965.30 | 3.85 | FP, LP, UD, W/R-3067-7004-VB |
| S-9B | 19+72.66 | RT-35.09 | H INLET | 970.25 | 966.46 | 3.79 | FP, UD, W/R-3067-7004-V |
| S-9C | 19+99.64 | RT-34.04 | H INLET | 970.77 | 966.91 | 3.86 | UD, W/R-3067-7004-V |
| S-10 | 20+20.97 | RT-11.50 | 4X4 SAS | 970.36 | 965.12 | 5.24 | LP, UD, W/R-3067-7004-VB |
| S-10A | 20+23.87 | LT-11.50 | H INLET | 969.59 | 966.72 | 2.87 | W/R-3067-7004-V |
| S-11 | 22+64.01 | RT-9.50 | 3X6 SAS | 984.76 | 979.90 | 4.86 | FP, W/R-3067-7004-V |
| S-11A | 22+80.44 | RT-25.70 | H INLET | 985.94 | 982.03 | 3.91 | W/R-3067-7004-V |
| S-11B | 23+04.49 | RT-26.69 | H INLET | 986.64 | 983.02 | 3.62 | LP, UD, W/R-3067-7004-VB |
| S-12 | 23+29.83 | RT-9.50 | 3X6 SAS | 987.50 | 982.87 | 4.63 | FP, UD, W/R-3067-7004-V |
| S-12A | 23+34.78 | LT-11.50 | H INLET | 987.37 | 983.96 | 3.41 | W/R-3067-7004-V |
| S-13 | 25+10.10 | RT-9.50 | 3X6 SAS | 994.99 | 990.35 | 4.64 | FP, R-3067-7004-V |
| * S-13A | 25+13.18 | LT-11.50 | H INLET | 994.92 | 991.53 | 3.39 | W/R-3067-7004-V |
| * S-13B | 25+23.59 | LT-11.50 | H INLET | 995.37 | 991.60 | 3.77 | W/R-3067-7004-V |
| S-14 | 26+91.55 | RT-9.50 | 3X6 SAS | 1003.95 | 999.30 | 4.65 | FP, W/R-3067-7004-V |
| S-14A | 26+99.71 | LT-25.50 | H INLET | 1005.89 | 1001.87 | 4.02 | W/R-3067-7004-V |
| S-14B | 27+24.52 | LT-26.57 | H INLET | 1006.69 | 1002.94 | 3.75 | LP, UD, W/R-3067-7004-VB |
| S-15 | 28+93.50 | RT-14.21 | 4X4 SAS | 1016.82 | 1011.75 | 5.07 | W/R-3067-7004-V |
| S-15A | 28+99.08 | LT-23.20 | H INLET | 1018.61 | 1014.86 | 3.75 | W/R-3067-7004-V |
| S-16 | 29+37.40 | LT-12.93 | 3X3 SAS | 1019.33 | 1014.36 | 4.97 | LP, UD, W/R-3067-7004-VB |
| S-17 | 29+94.05 | LT-18.03 | 3X3 SAS | 1020.15 | 1015.12 | 5.03 | (2), UD, W/R-3067-7004-V |
| S-20 | 19+46.80 | LT-11.50 | H INLET | 968.21 | 965.41 | 2.80 | W/R-3067-7004-V |
| * S-21 | 18+08.16 | LT-11.50 | H INLET | 974.36 | 968.77 | 5.59 | FP, W/R-3067-7004-V |
| HILLCREST CIRCLE | | | | | | | |
| * S-22 | 66+54.73 | LT-11.50 | H INLET | 974.75 | 969.30 | 5.45 | FP, W/R-3067-7004-V |
| S-23 | 65+60.00 | LT-11.50 | H INLET | 973.28 | 970.26 | 3.02 | LP, UD, W/R-3067-7004-VB |
| * S-23A | 65+60.00 | RT-11.50 | H INLET | 974.12 | 971.09 | 3.03 | LP, UD, W/R-3067-7004-VB |

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 |
|-------------------------|--------------|--------------|---------------|---------------|----------------------|----------------|---------------|------------|------------|------------|
| HILLCREST DRIVE | | | | | | | | | | |
| * P-1 | S-1 | S-2 | 915.78 | 918.71 | 67 | 60.8 | 4.82% | 30" | RCP | - |
| * P-2 | S-2 | S-3 | 918.71 | 922.98 | 46 | 41.9 | 10.19% | 30" | RCP | - |
| P-2A | S-2 | S-2A | 921.58 | 922.43 | 45.5 | 42.1 | 2.02% | 12" | RCP | - |
| P-3 | S-3 | S-4 | 923.98 | 948.17 | 183 | 179 | 13.51% | 30" | RCP | - |
| P-3A | S-3 | S-3A | 925.48 | 925.54 | 11.5 | 8.6 | 0.70% | 12" | RCP | - |
| * P-3B | S-3 | S-3B | 926.48 | 926.87 | 12 | 8.7 | 4.48% | 12" | RCP | - |
| P-4 | S-4 | S-5 | 948.17 | 956.22 | 81 | 77 | 10.45% | 30" | RCP | - |
| P-4A | S-4 | S-4A | 949.67 | 949.73 | 11.5 | 8.6 | 0.70% | 12" | RCP | - |
| P-4B | S-4 | S-4B | 949.67 | 949.90 | 11.5 | 8.5 | 2.71% | 12" | RCP | - |
| P-5 | S-5 | S-6 | 956.22 | 961.29 | 70 | 56.9 | 8.91% | 30" | RCP | - |
| * P-5A | S-5 | S-5A | 958.47 | 958.56 | 14.5 | 11.7 | 0.77% | 15" | RCP | - |
| * P-5B | S-5A | S-5B | 958.56 | 960.94 | 46 | 43.3 | 5.50% | 12" | RCP | - |
| * P-5C | S-5B | S-5C | 960.94 | 961.99 | 25.5 | 23.1 | 4.55% | 12" | RCP | - |
| * P-5D | S-5 | S-5D | 956.72 | 956.92 | 11.5 | 8.5 | 2.35% | 12" | RCP | NCM |
| P-6 | S-6 | S-7 | 961.29 | 962.08 | 160 | 158 | 0.50% | 30" | STORM | - |
| P-7 | S-7 | S-8 | 962.08 | 963.08 | 198 | 198.1 | 0.50% | 30" | STORM | - |
| P-8 | S-8 | S-9 | 963.08 | 964.02 | 188 | 186.1 | 0.51% | 30" | STORM | - |
| P-9 | S-9 | S-10 | 964.03 | 965.12 | 74 | 70.1 | 1.55% | 30" | RCP | - |
| P-9A | S-9 | S-9A | 965.27 | 965.30 | 6 | 3 | 1.00% | 15" | RCP | - |
| P-9B | S-9A | S-9B | 965.55 | 966.46 | 34 | 30.8 | 2.95% | 12" | RCP | - |
| P-9C | S-9B | S-9C | 966.46 | 966.91 | 27 | 25 | 1.80% | 12" | RCP | - |
| P-10 | S-10 | S-11 | 965.62 | 979.90 | 143 | 239.6 | 5.96% | 24" | RCP | - |
| P-10A | S-10 | S-10A | 966.62 | 966.72 | 23.5 | 20.2 | 0.50% | 12" | RCP | - |
| P-11 | S-11 | S-12 | 979.90 | 982.87 | 66 | 63 | 4.71% | 24" | RCP | - |
| P-11A | S-11 | S-11A | 980.83 | 982.03 | 23.5 | 19.7 | 6.09% | 12" | RCP | - |
| P-11B | S-11A | S-11B | 982.03 | 983.02 | 24 | 22.1 | 4.48% | 12" | RCP | - |
| P-12 | S-12 | S-13 | 982.87 | 990.35 | 179 | 176 | 4.25% | 24" | RCP | - |
| P-12A | S-12 | S-12A | 983.87 | 983.96 | 21.5 | 17.5 | 0.51% | 12" | RCP | - |
| P-13 | S-13 | S-14 | 990.35 | 999.30 | 182 | 179 | 5.00% | 24" | RCP | - |
| * P-13A | S-13 | S-13A | 991.35 | 991.53 | 21.5 | 17.2 | 1.05% | 12" | RCP | - |
| * P-13B | S-13A | S-13B | 991.53 | 991.60 | 10 | 7 | 1.00% | 12" | RCP | - |
| P-14 | S-14 | S-15 | 999.30 | 1011.75 | 203 | 199.2 | 6.25% | 24" | RCP | - |
| P-14A | S-14 | S-14A | 1000.30 | 1001.87 | 36 | 31.4 | 5.00% | 12" | RCP | - |
| P-14B | S-14A | S-14B | 1001.87 | 1002.94 | 25 | 22.7 | 4.71% | 12" | RCP | - |
| P-15 | S-15 | S-16 | 1011.75 | 1014.36 | 52 | 47.5 | 5.50% | 24" | RCP | - |
| P-15A | S-15 | S-15A | 1012.75 | 1014.86 | 38 | 34.3 | 6.15% | 12" | RCP | - |
| P-16 | S-16 | S-17 | 1014.36 | 1015.12 | 64 | 61 | 1.25% | 24" | RCP | - |
| P-20 | S-9 | S-20 | 965.27 | 965.41 | 17 | 14.1 | 0.99% | 15" | RCP | - |
| * P-21 | S-20 | S-21 | 965.41 | 968.77 | 140.5 | 137.2 | 2.45% | 15" | RCP | - |
| HILLCREST CIRCLE | | | | | | | | | | |
| * P-22 | S-21 | S-22 | 968.77 | 969.30 | 38.5 | 35.2 | 1.50% | 15" | RCP | - |
| * P-23 | S-22 | S-23 | 969.30 | 970.26 | 95 | 91.7 | 1.05% | 15" | RCP | - |
| * P-23A | S-23 | S-23A | 970.51 | 971.09 | 23 | 21 | 2.76% | 12" | RCP | - |

STANDARD NOTES:

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

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.

- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS'S.

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.

- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

SPECIFIC NOTES

(1) TOP OF CASTING ELEVATION GIVEN FOR REFERENCE. ELEVATION IS THE PROPOSED GRADE DIRECTLY ABOVE BEND

(2) PROVIDE 24" CUT OUT TO THE EAST OF STRUCTURE FOR FUTURE PIPE CONNECTION

* (3) PROVIDE 3' FLAIR IN CURB UPSTREAM OF INLET.

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.

STORM SEWER SCHEDULE

*REV 4/18/2016 KDF

| | |
|--|-------------------|
| HILLCREST DR. & CIR. RECON 2016 PROJECT NO. 11091 | SHEET NO. U-10 |
| STORM SEWER SCHEDULE | |
| HILLCREST DR. & CIR. | CITY OF MADISON |

REMOVE STORM STRUCTURES

| STRUC. NO. | ID NO. | STATION | LOCATION (OFFSET) | TYPE | NOTES |
|-----------------------------|--------------|----------|-------------------|------------|-------|
| S. MIDVALE BOULEVARD | | | | | |
| R-1 | AS #1 | 81+48.98 | LT-18.47 | CATCHBASIN | - |
| HILLCREST DRIVE | | | | | |
| R-2 | IN #3754-016 | 10+38.92 | RT-31.87 | H INLET | - |

STORM SEWER ULOs

| ULO NO. | STATION | LOCATION (OFFSET) | TYPE | TOP ELEV. | NOTES |
|-----------------------------|----------|-------------------|-----------------|-----------|---------------------------------------|
| 1.00 | | | | | |
| S. MIDVALE BOULEVARD | | | | | |
| * ULO1B | 81+42.53 | LT-11.07 | FO | - | NOT MARKED, NO ULO COMPLETED |
| HILLCREST DRIVE | | | | | |
| * ULO1 | 10+33.74 | CL | 8" STEEL HP GAS | 922.57 | CONFLICT, STORM SEWER REVISED |
| * ULO1A | 10+37.96 | CL | 6" STEEL GAS | 921.28 | CONFLICT, COORDINATE WITH MGE TO MOVE |
| * ULO1C | 10+37.96 | LT-0.35 | 8" VP SANITARY | 918.67 | - |
| * ULO2 | 10+76.56 | RT-7.54 | 6" STEEL GAS | 926.47 | CONFLICT, STORM SEWER REVISED |
| * ULO3 | 12+58.41 | RT-7.96 | 6" STEEL GAS | 949.53 | - |
| * ULO4 | 13+39.19 | RT-5.60 | 6" STEEL GAS | 958.64 | CONFLICT, STORM SEWER REVISED |
| * ULO5 | 13+47.94 | LT-17.93 | 6" STEEL HP GAS | 958.23 | CONFLICT, STORM SEWER REVISED |
| * ULO6 | 17+43.15 | RT-0.68 | 3" PLASTIC GAS | 974.09 | - |
| * ULO7 | 18+03.57 | LT-15.95 | 6" STEEL HP GAS | 971.07 | CONFLICT, STORM SEWER REVISED |
| * ULO8 | 24+35.58 | RT-12.39 | 3" PLASTIC GAS | 988.41 | CONFLICT, COORDINATE WITH MGE TO MOVE |
| * ULO9 | 26+98.11 | RT-9.48 | 3" PLASTIC GAS | 1000.97 | CONFLICT, COORDINATE WITH MGE TO MOVE |
| * ULO10 | 26+98.81 | LT-21.62 | 3" PLASTIC GAS | 1001.48 | CONFLICT, COORDINATE WITH MGE TO MOVE |
| * ULO11 | 29+69.51 | LT-11.10 | 6" STEEL GAS | 1015.84 | CONFLICT, COORDINATE WITH MGE TO MOVE |
| * ULO12 | 12+59.92 | LT-13.31 | 6" ST HP GAS | 950.40 | CONFLICT, STORM SEWER REVISED |
| HILLCREST CIRCLE | | | | | |
| * ULO20 | 65+60.00 | RT-0.50 | 3" PLASTIC GAS | 970.68 | CONFLICT, STORM SEWER REVISED |

STORM SEWER ABANDONMENTS

| PIPE NO. | FROM (DNSTM) | TO (UPSTM) | LGTH (FT) | PIPE SIZE | TYPE | NOTES |
|------------------------|--------------|------------|-----------|-----------|------|--------------------|
| HILLCREST DRIVE | | | | | | |
| ABN-1 | AS #3754-019 | R-1 | 52 | 12" | VP | (1) TWO PIPE PLUGS |

SPECIFIC NOTES

(1) PIPE PLUGS PAID UNDER BID ITEM 20336

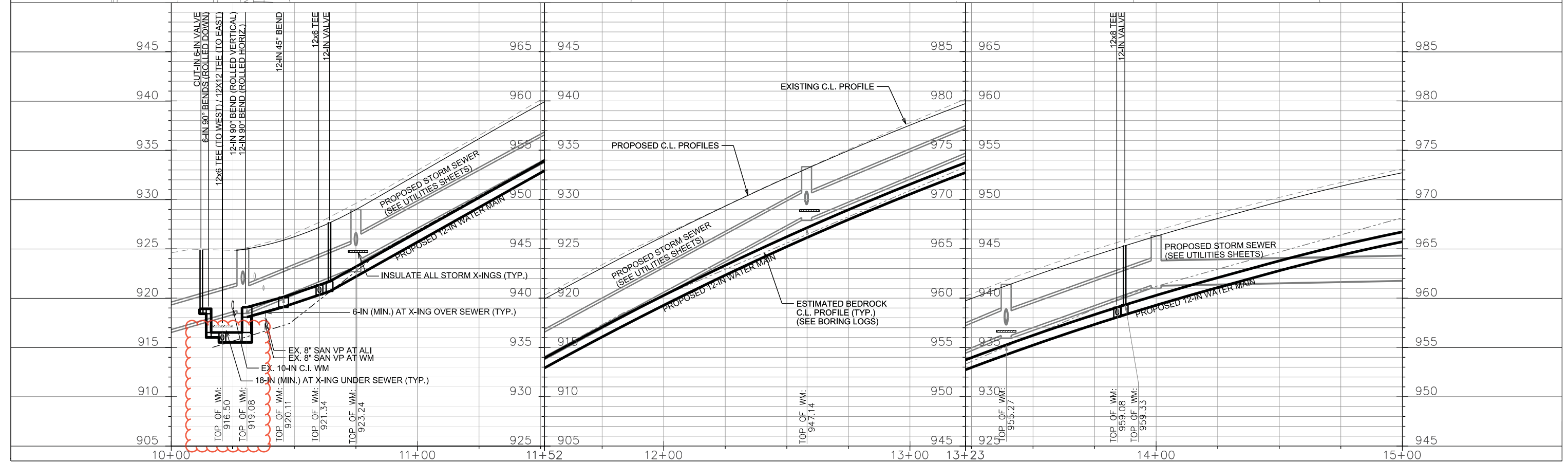
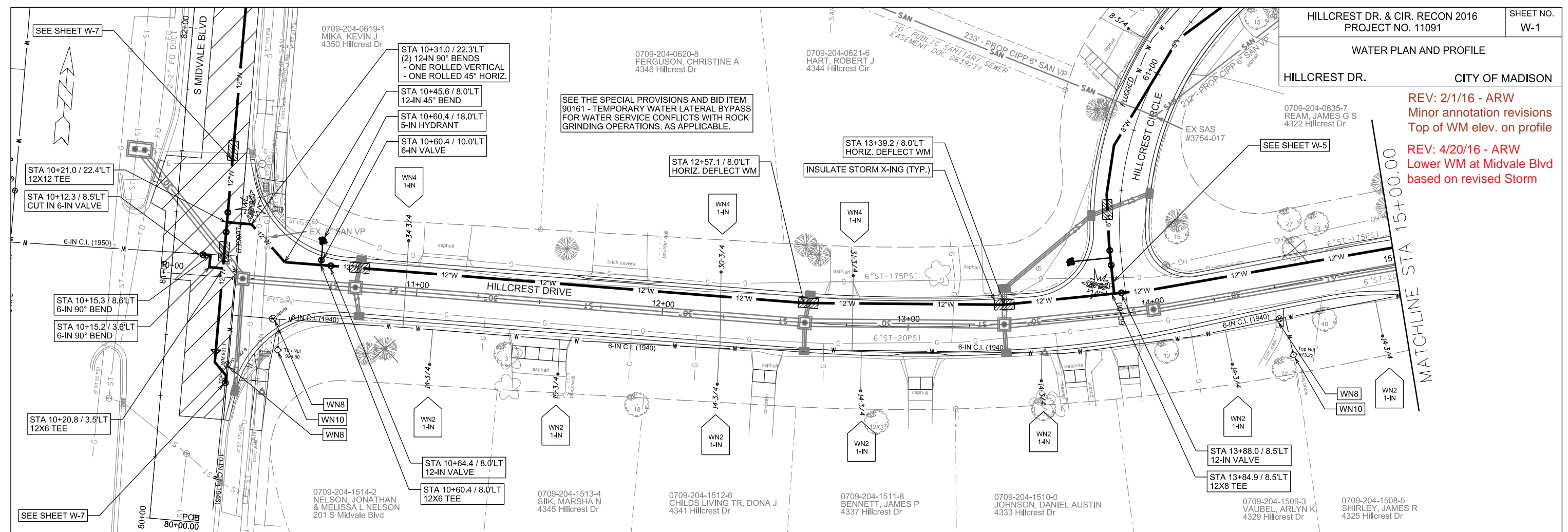
STANDARD NOTES:

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- 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.

WATER PLAN AND PROFILE
HILLCREST DR. CITY OF MADISON

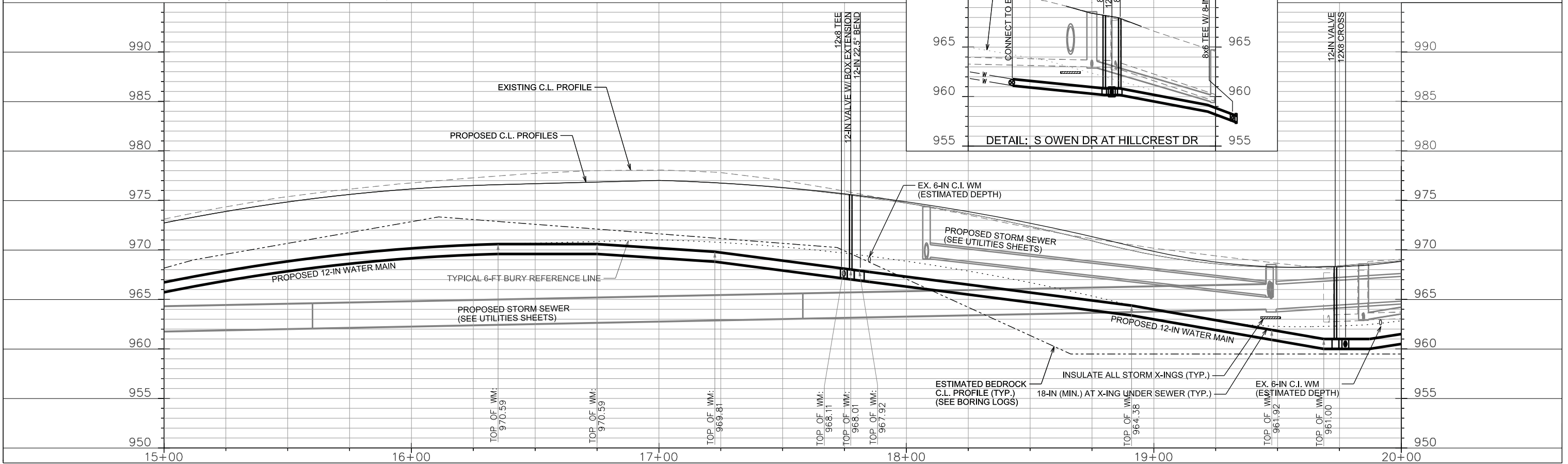
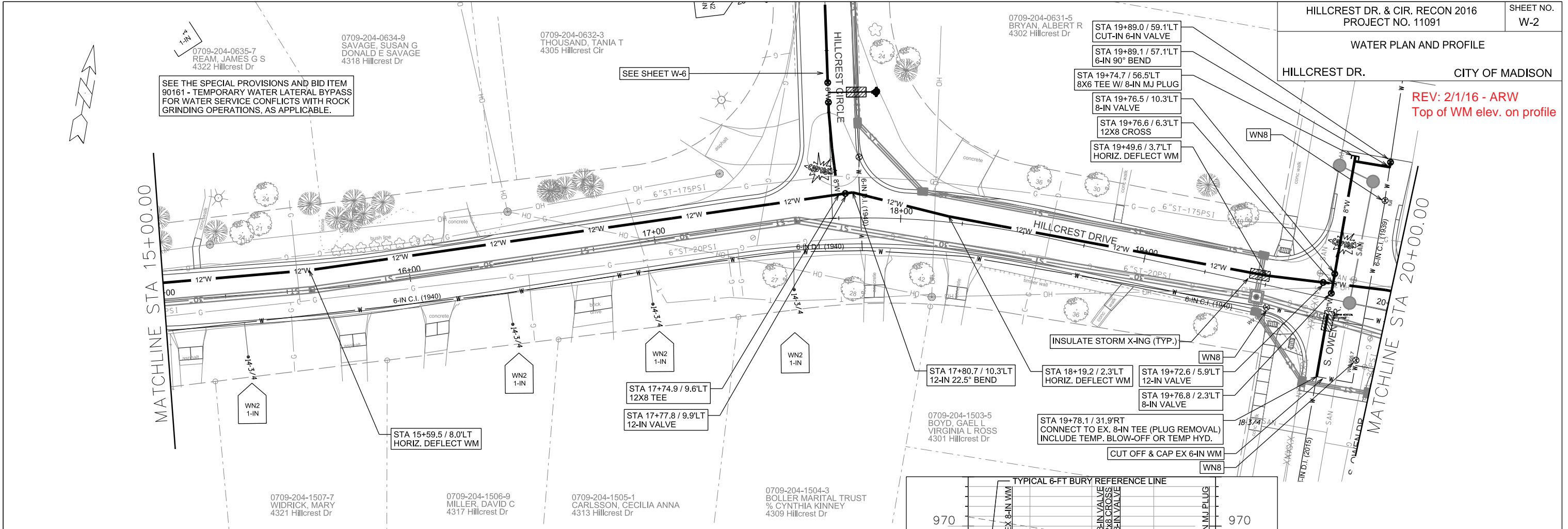
REV: 2/1/16 - ARW
Minor annotation revisions
Top of WM elev. on profile

REV: 4/20/16 - ARW
Lower WM at Midvale Blvd
based on revised Storm



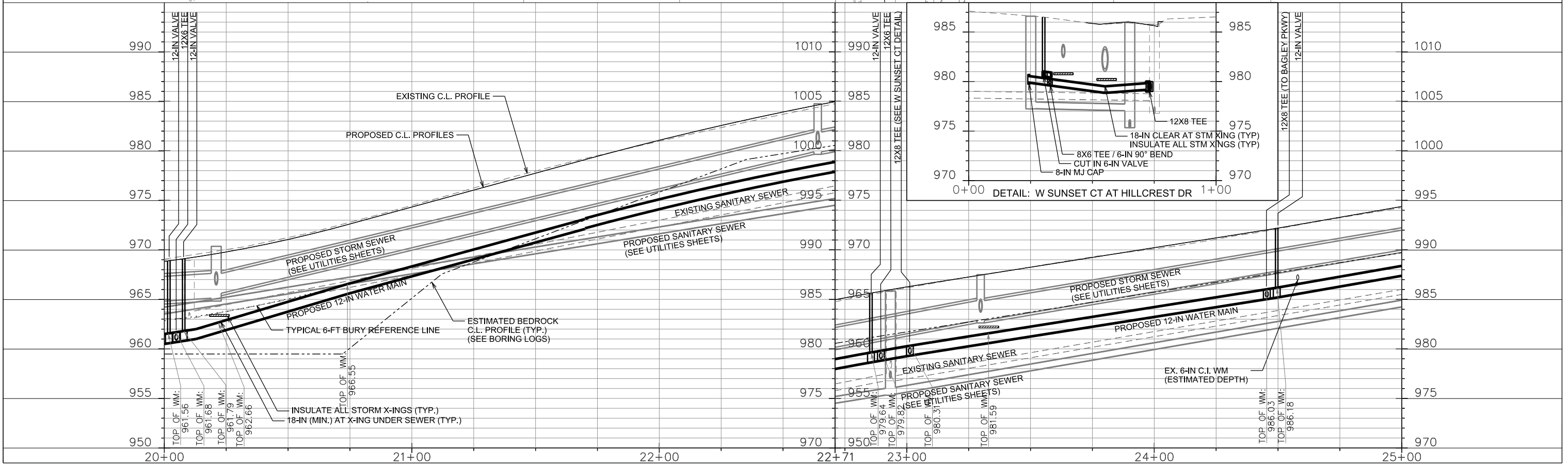
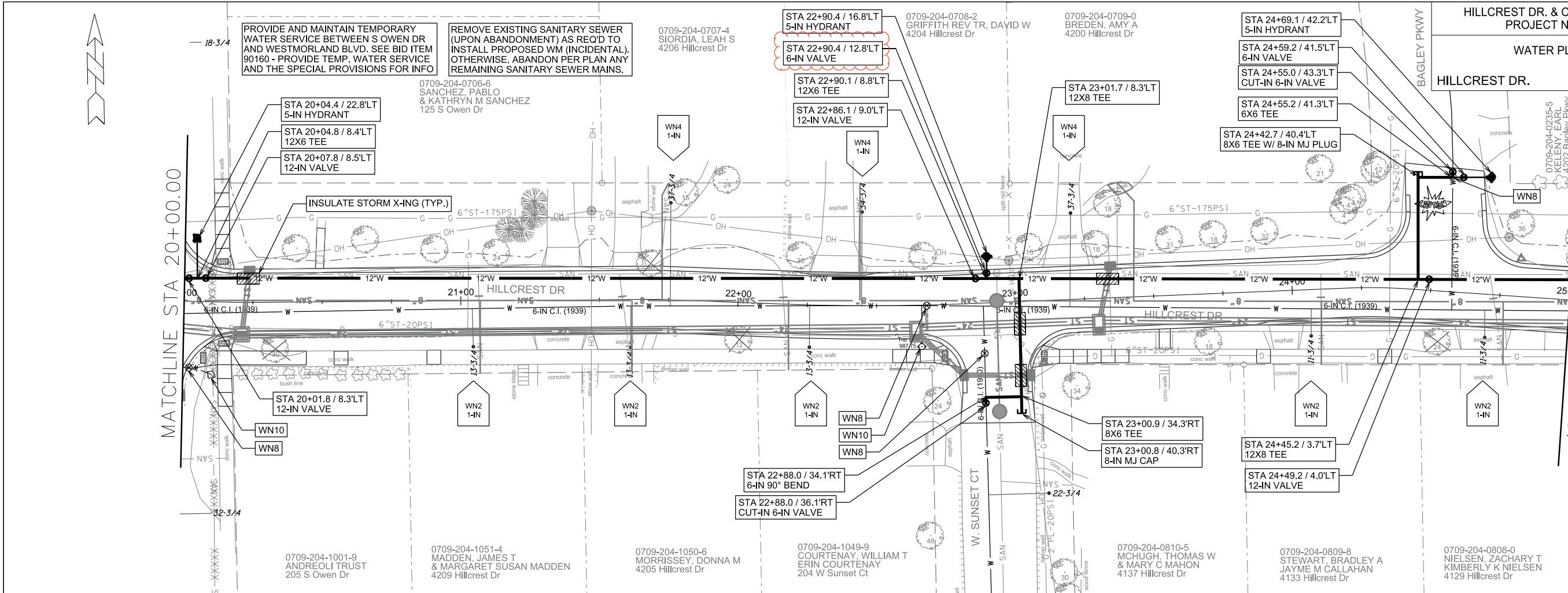
WATER PLAN AND PROFILE
HILLCREST DR. CITY OF MADISON

REV: 2/1/16 - ARW
Top of WM elev. on profile



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

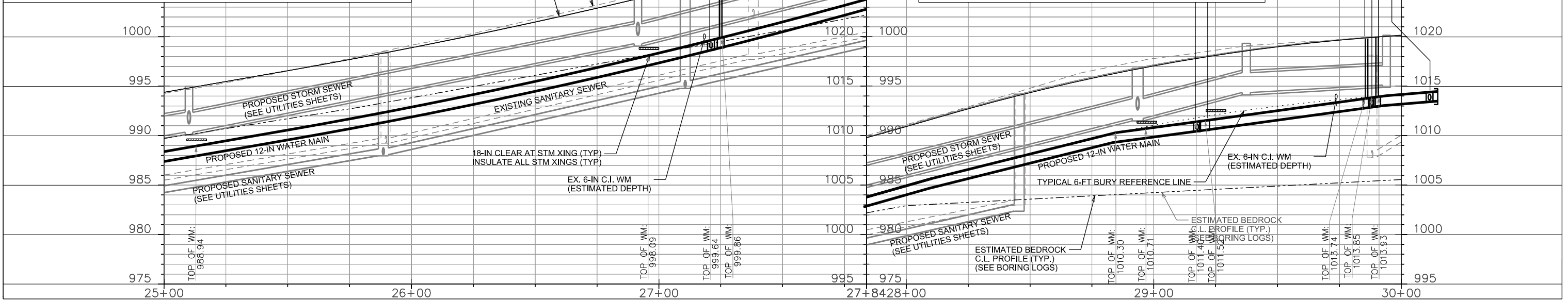
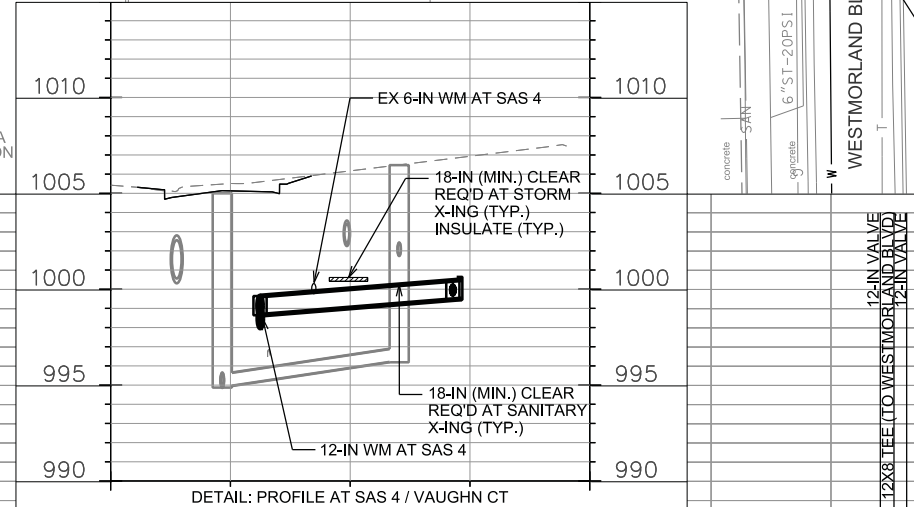
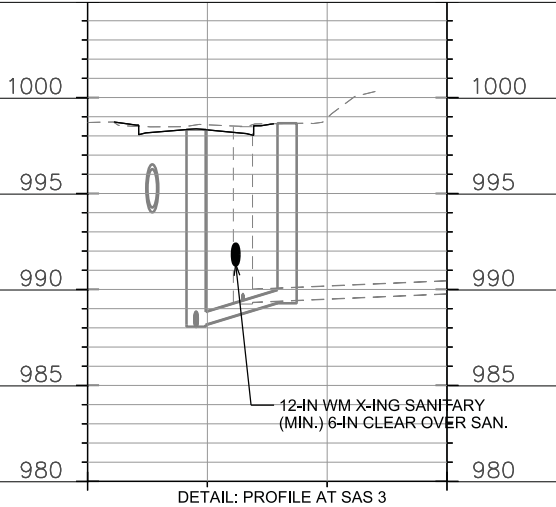
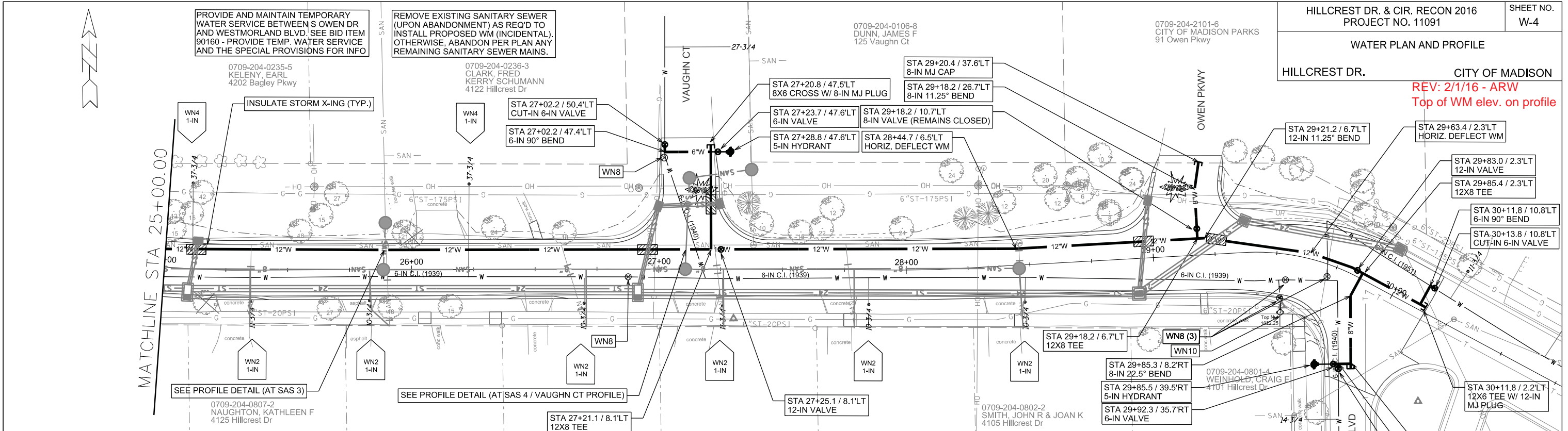
REV: 2/1/16 - ARW
Added 6-IN valve
Ex. util. shown on profile.
Top of WM elev. on profile



WATER PLAN AND PROFILE

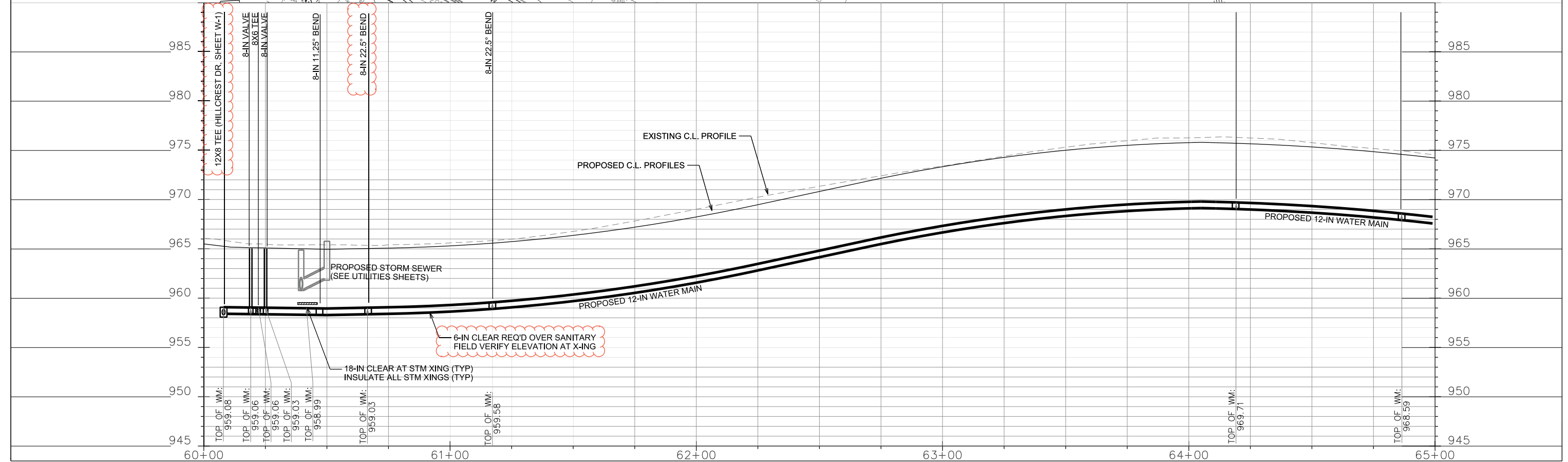
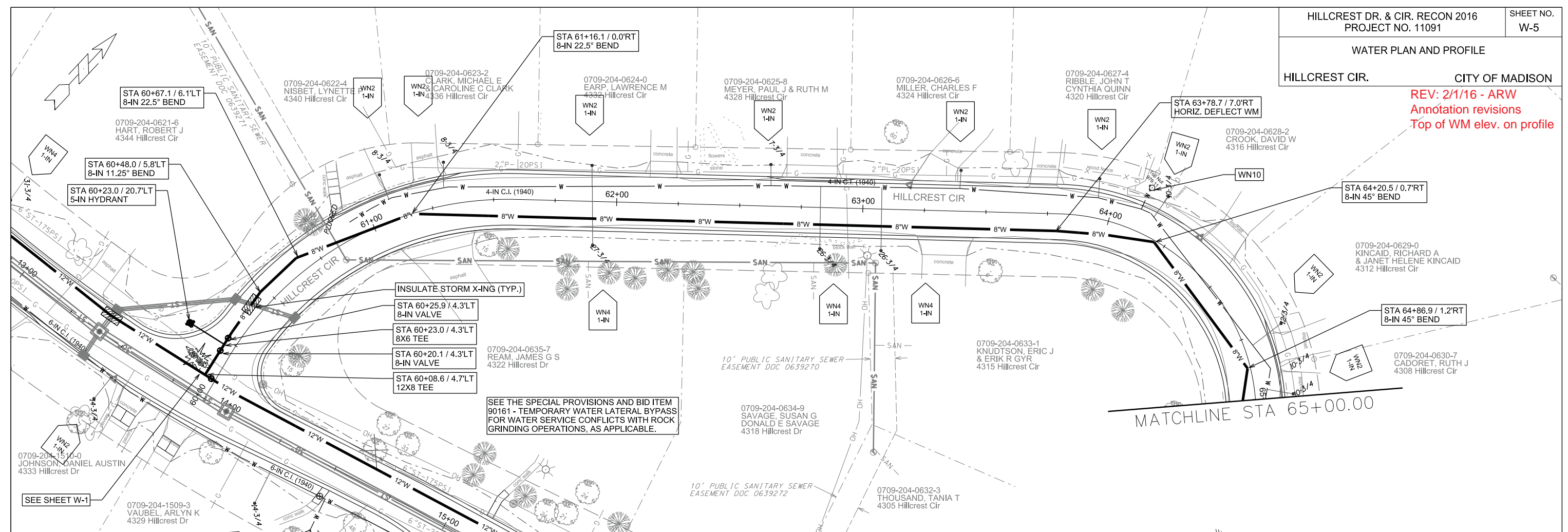
HILLCREST DR. CITY OF MADISON

REV: 2/1/16 - ARW
Top of WM elev. on profile



WATER PLAN AND PROFILE
HILLCREST CIR. CITY OF MADISON

REV: 2/1/16 - ARW
Annotation revisions
Top of WM elev. on profile



WATER PLAN AND PROFILE

S MIDVALE BLVD. CITY OF MADISON

REV: 2/1/16 - ARW
Minor annotation revisions
Top of WM elev. on profile

REV: 4/20/16 - ARW
Lower WM profile at
Hillcrest Dr storm x-ing.
Added closed valve note.

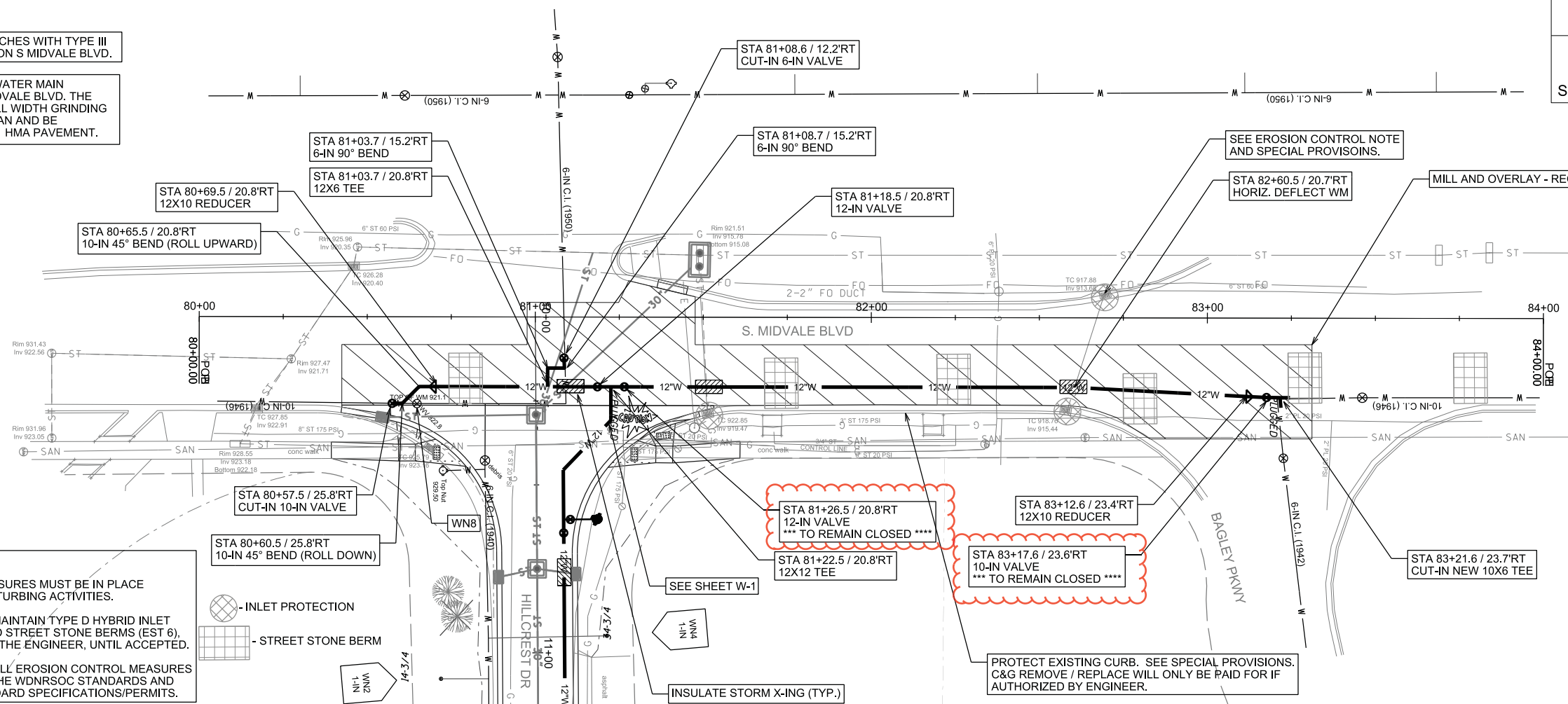
NEXT DOWNSTREAM STORM
INLETS ARE LOCATED ~400-FT
NORTH OF STA 83+00 (OFF PAGE)

PATCH ALL WATER TRENCHES WITH TYPE III
UTILITY TRENCH PATCH ON S MIDVALE BLVD.

UPON COMPLETION OF WATER MAIN
INSTALLATIONS ON S MIDVALE BLVD. THE
STREET SHALL HAVE FULL WIDTH GRINDING
AT LIMITS SHOWN ON PLAN AND BE
OVERLAID WITH TYPE E-1 HMA PAVEMENT.

EROSION CONTROL:
EROSION CONTROL MEASURES MUST BE IN PLACE
PRIOR TO ANY LAND DISTURBING ACTIVITIES.
FURNISH, INSTALL AND MAINTAIN TYPE D HYBRID INLET
PROTECTION (EST 4) AND STREET STONE BERMS (EST 6),
AND AS INSTRUCTED BY THE ENGINEER, UNTIL ACCEPTED.
INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES
IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND
CITY OF MADISON STANDARD SPECIFICATIONS/PERMITS.

INLET PROTECTION
STREET STONE BERM

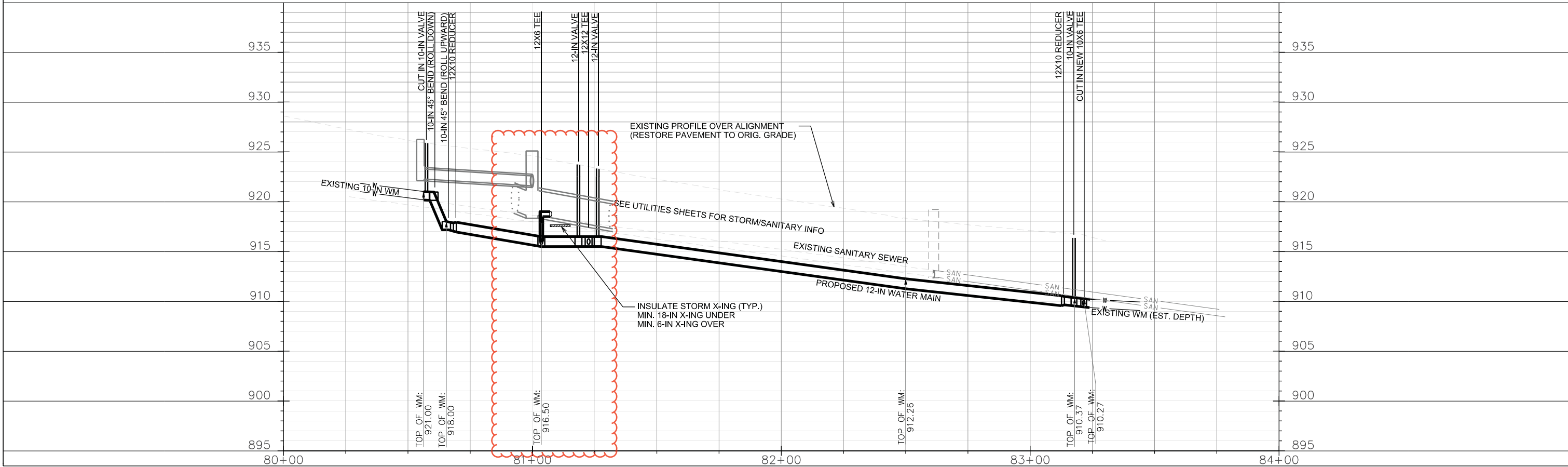


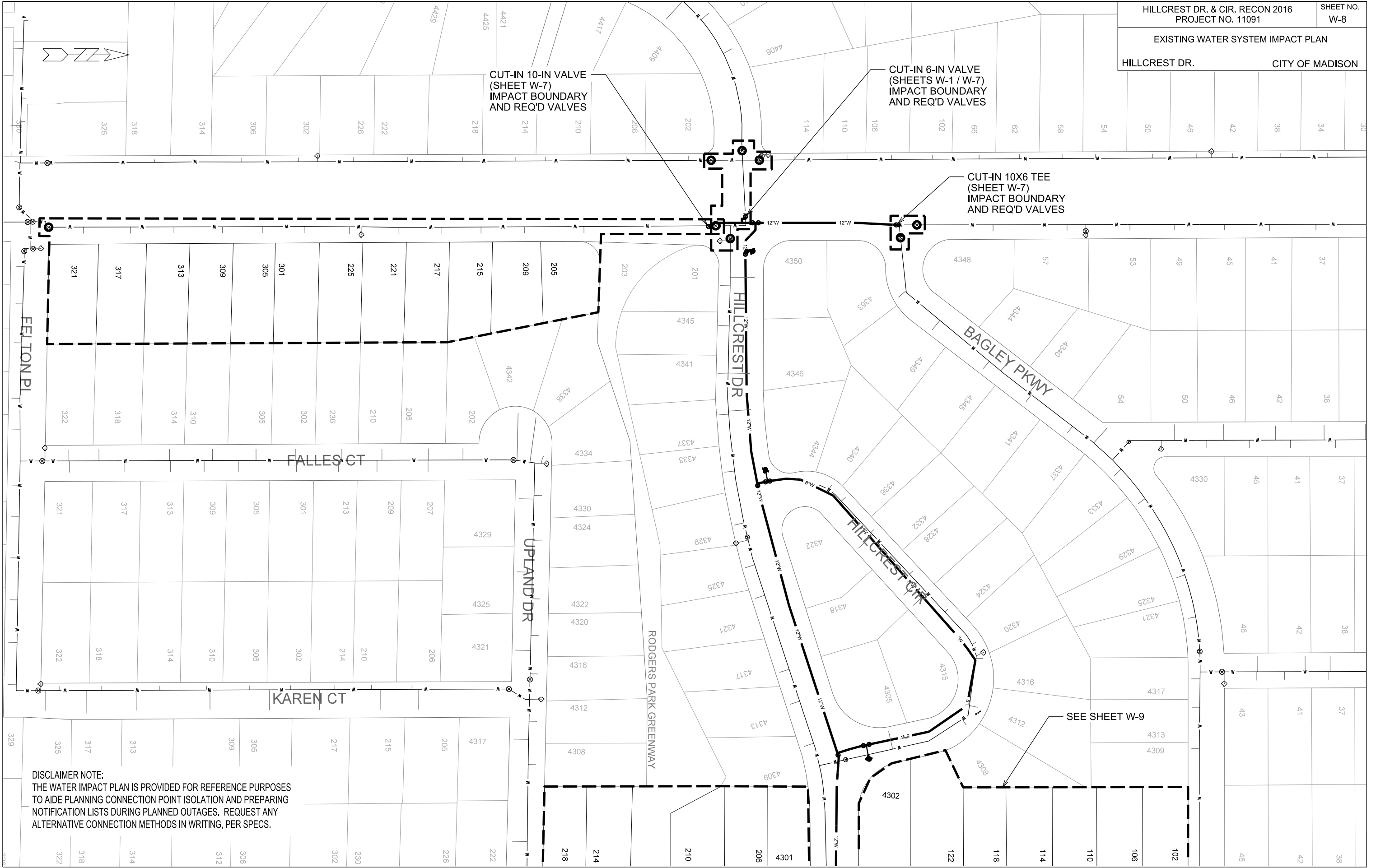
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





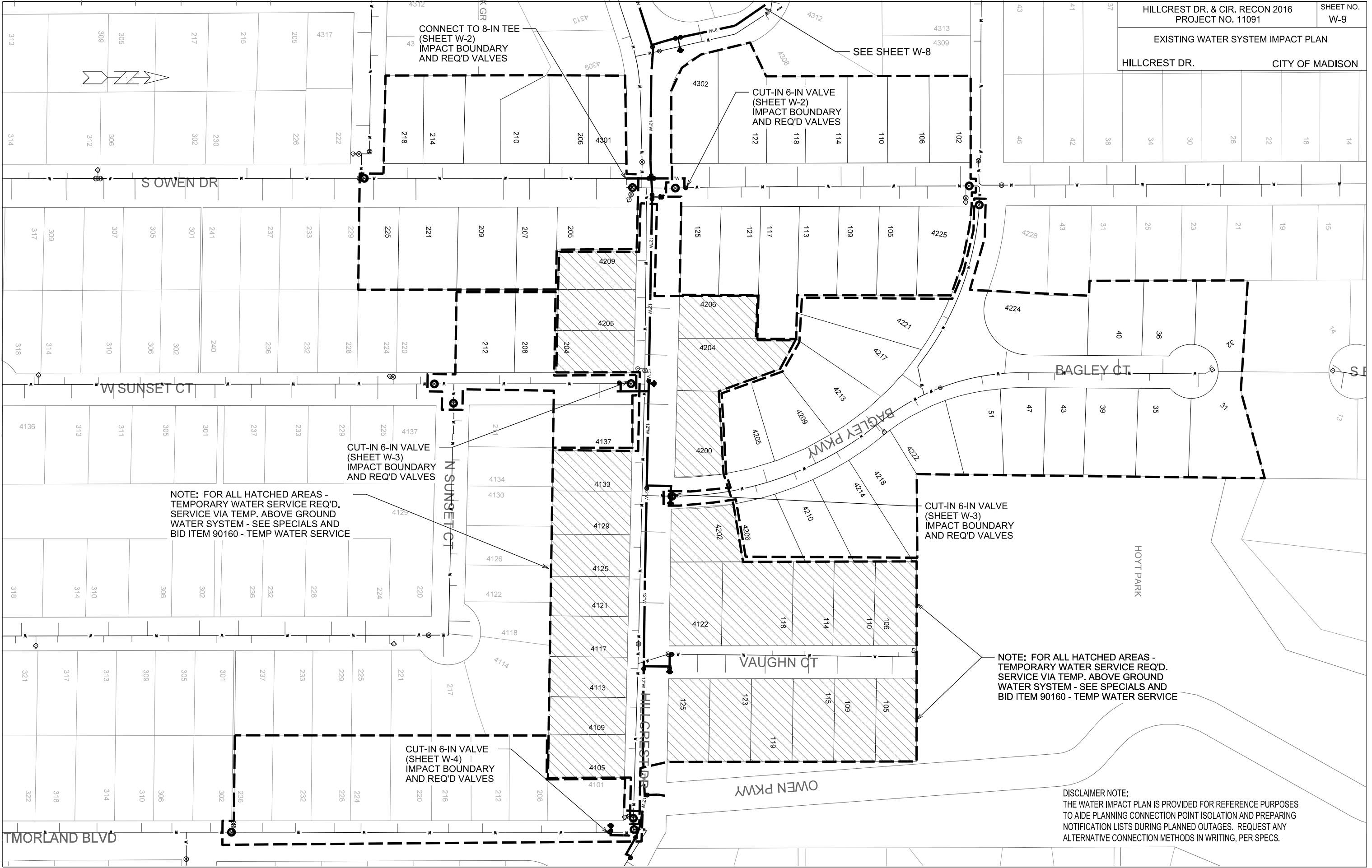
DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: FOR ALL HATCHED AREAS -
TEMPORARY WATER SERVICE REQ'D.
SERVICE VIA TEMP. ABOVE GROUND
WATER SYSTEM - SEE SPECIALS AND
BID ITEM 90160 - TEMP WATER SERVICE

CUT-IN 6-IN VALVE
(SHEET W-3)
IMPACT BOUNDARY
AND REQ'D VALVES

NOTE: FOR ALL HATCHED AREAS -
TEMPORARY WATER SERVICE REQ'D.
SERVICE VIA TEMP. ABOVE GROUND
WATER SYSTEM - SEE SPECIALS AND
BID ITEM 90160 - TEMP WATER SERVICE

CUT-IN 6-IN VALVE
(SHEET W-4)
IMPACT BOUNDARY
AND REQ'D VALVES

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:

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CONSTRUCTION NOTES:

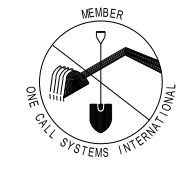
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION 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.

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.

- 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

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.



ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 200-FT 6-IN PIPE
- 965-FT 8-IN PIPE
- 30-FT 10-IN PIPE
- 2240-FT 12-IN PIPE
- 3780-FT POLYWRAP

- 11 6-IN VALVE & BOX
- 7 8-IN VALVE & BOX
- 2 10-IN VALVE & BOX
- 12 12-IN VALVE & BOX

- 6 6-IN 90 DEGREE BEND
- 2 8-IN 11.25 DEGREE BEND
- 4 8-IN 22.5 DEGREE BEND
- 6 8-IN 45 DEGREE BEND
- 2 10-IN 45 DEGREE BEND
- 1 12-IN 11.25 DEGREE BEND
- 1 12-IN 22.5 DEGREE BEND
- 1 12-IN 45 DEGREE BEND
- 2 12-IN 90 DEGREE BEND

- 2 8-IN CAP
- 4 8-IN PLUG
- 1 6-IN X 6-IN TEE
- 5 8-IN X 6-IN TEE
- 1 8-IN X 8-IN TEE
- 6 12-IN X 6-IN TEE
- 6 12-IN X 8-IN TEE
- 1 12-IN X 12-IN TEE
- 2 12-IN X 10-IN REDUCER
- 1 8-IN X 6-IN CROSS
- 1 12-IN X 8-IN CROSS

8 5-IN HYDRANT

2-IN STYROFOAM INSULATION (AS REQUIRED)
COPPER SERVICE TUBING/COUPLINGS (AS REQUIRED)
HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQUIRED)

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

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

NONE

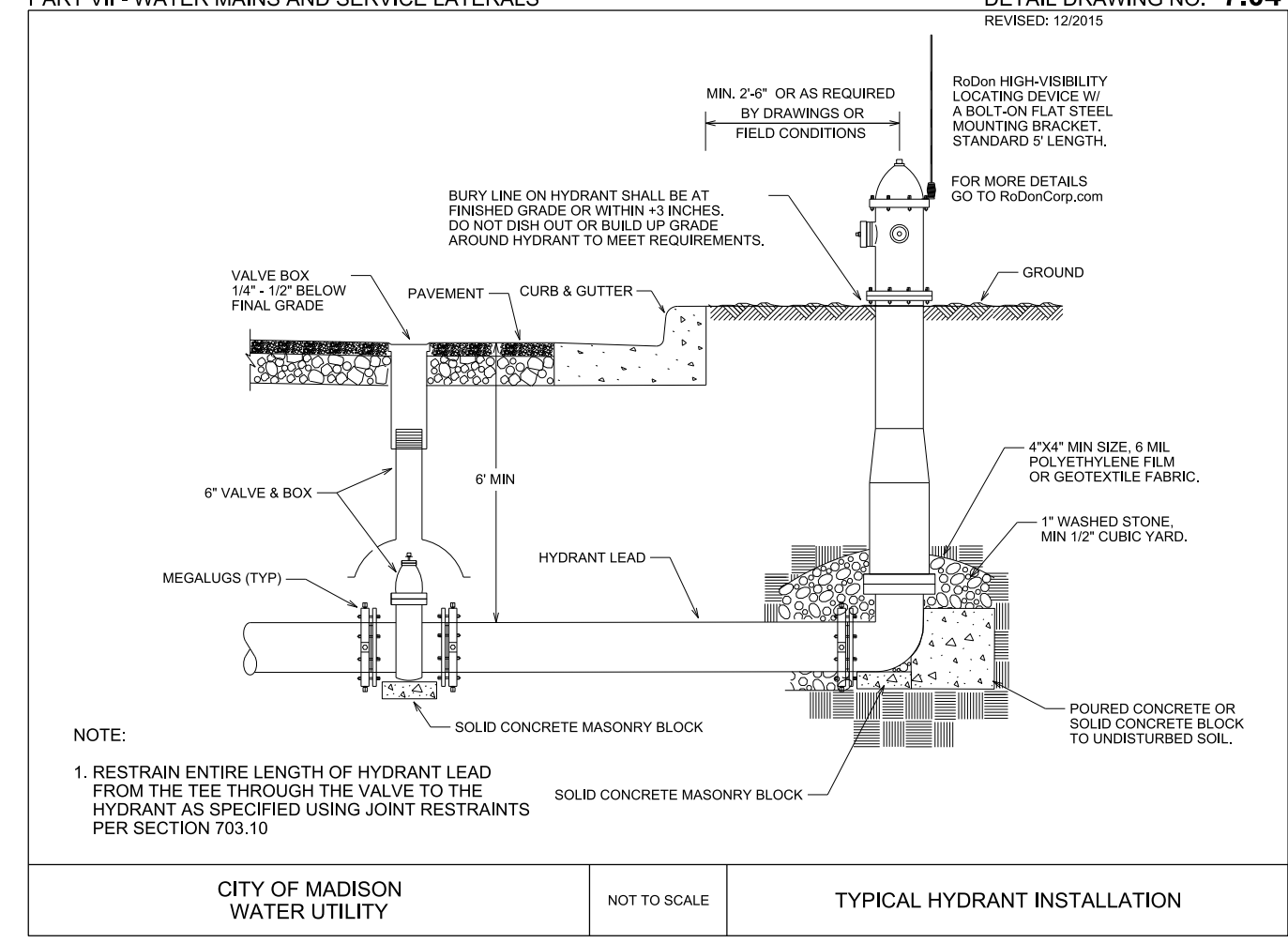
ESTIMATE OF MATERIALS SALVAGED:

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

NONE

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04
REVISED: 12/2015



CITY OF MADISON WATER UTILITY NOT TO SCALE TYPICAL HYDRANT INSTALLATION

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

CROSS SECTIONS

HILLCREST DR.
REV 4-14-16 JMW

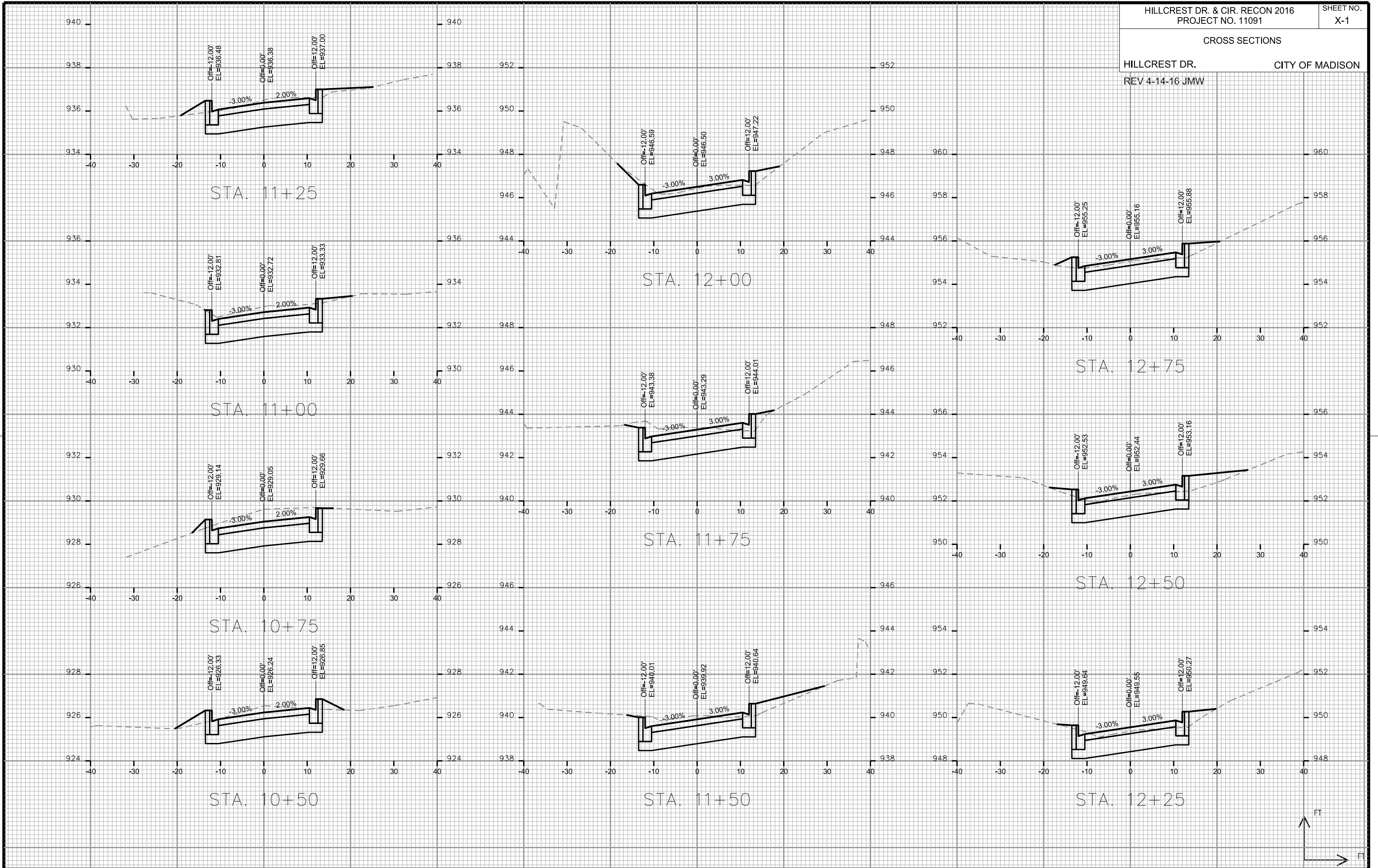
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

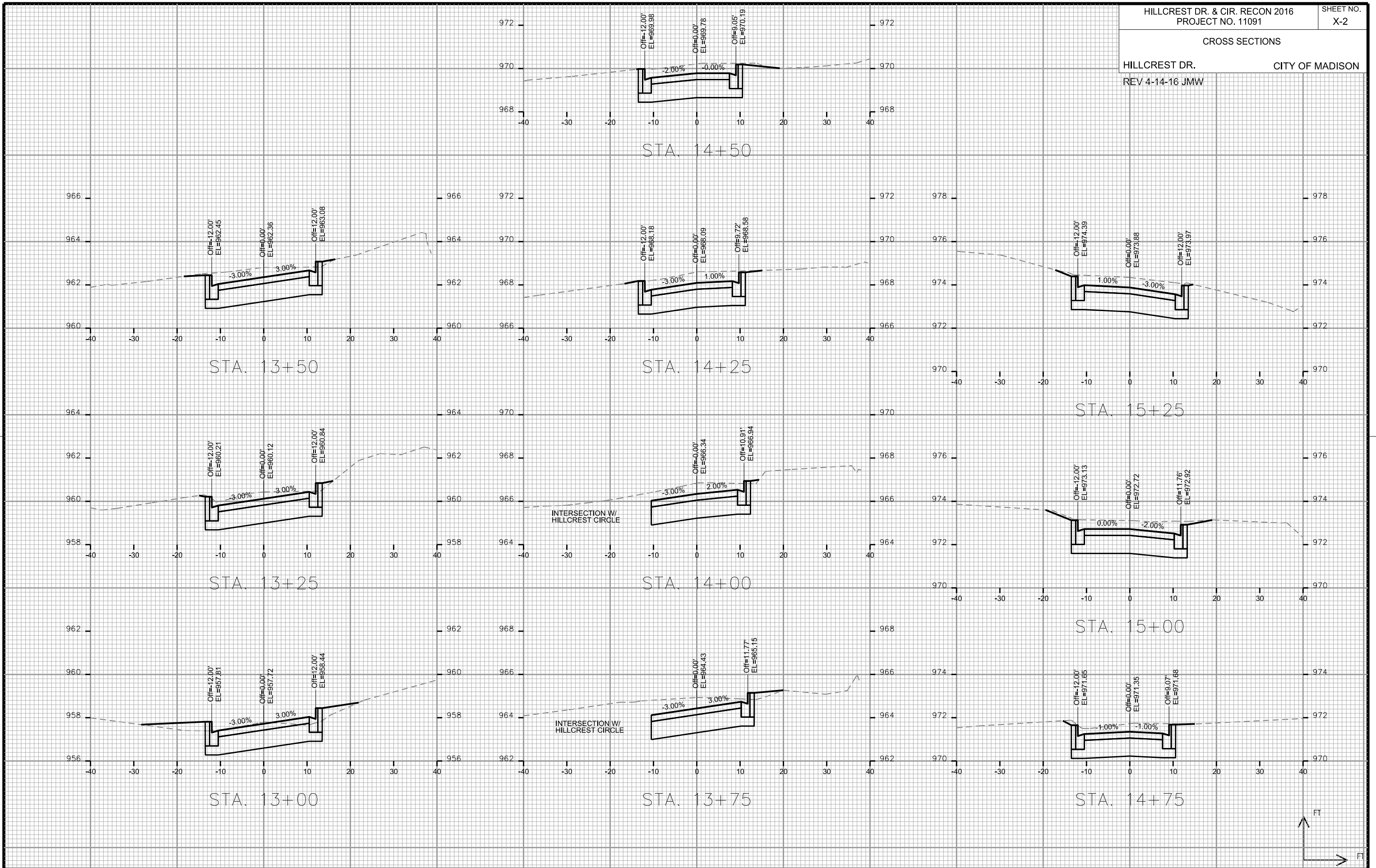
HILLCREST DR.
REV 4-14-16 JMW

CITY OF MADISON

PLOT SCALE:
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



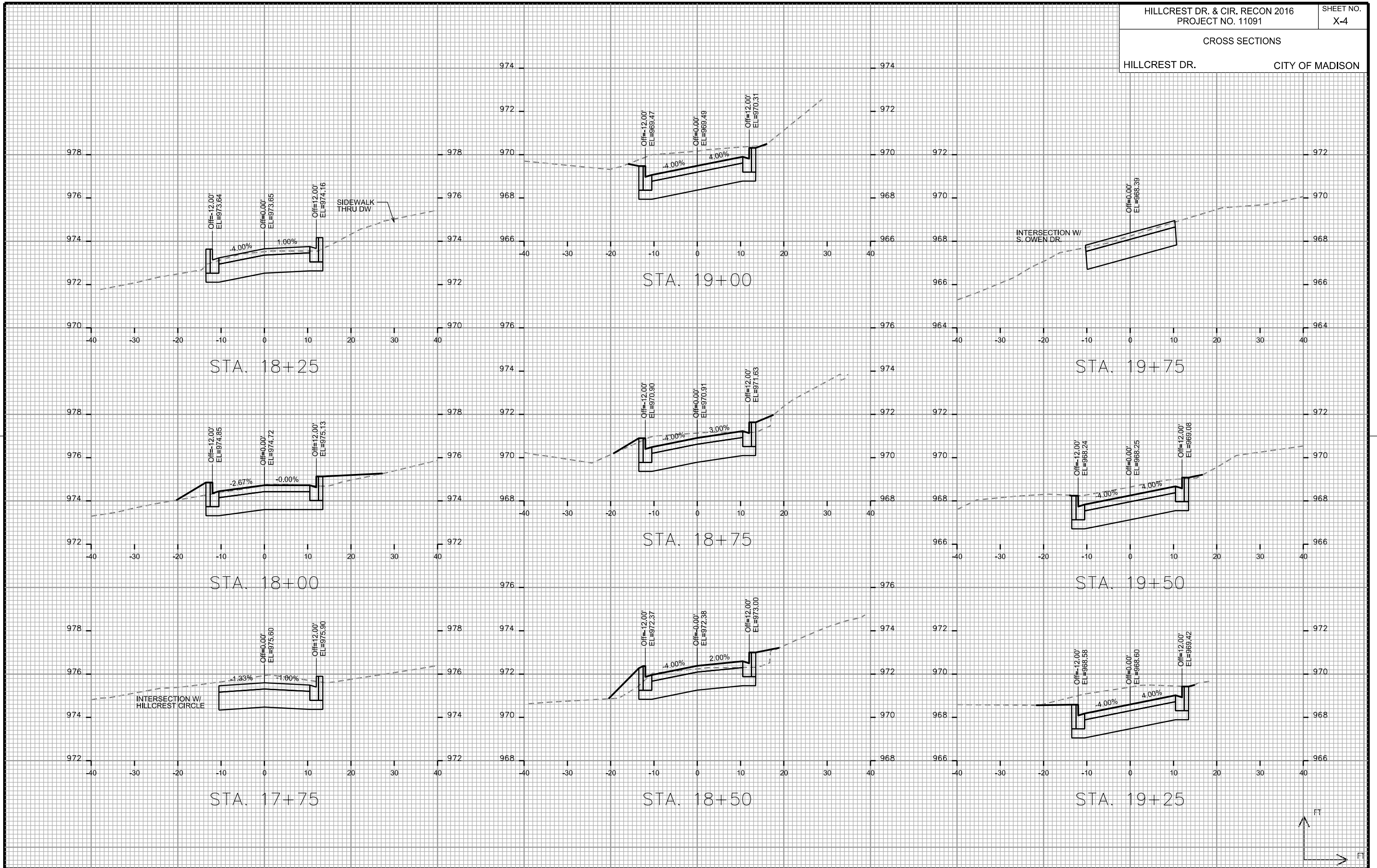
CROSS SECTIONS
HILLCREST DR. CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

HILLCREST DR.

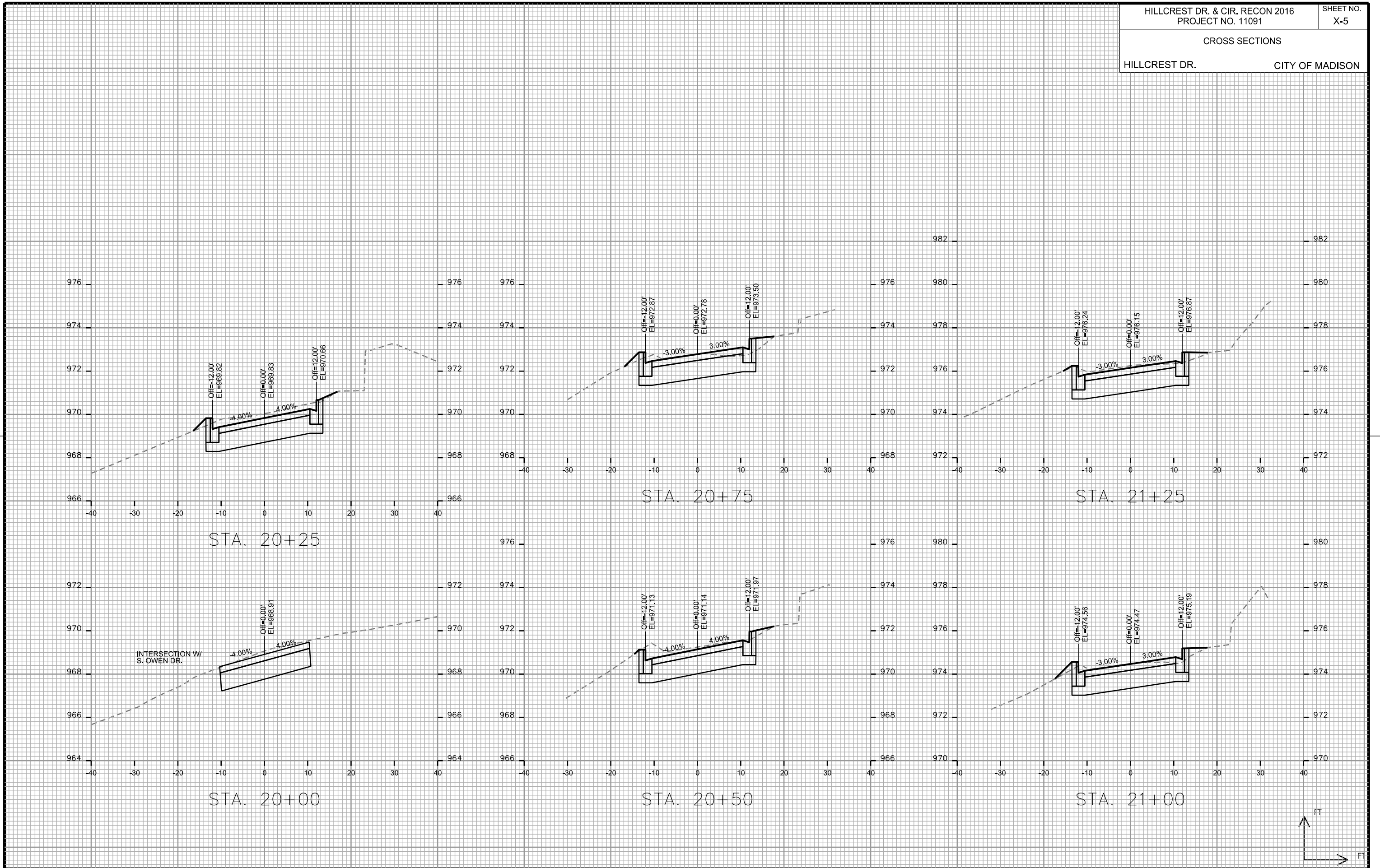
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



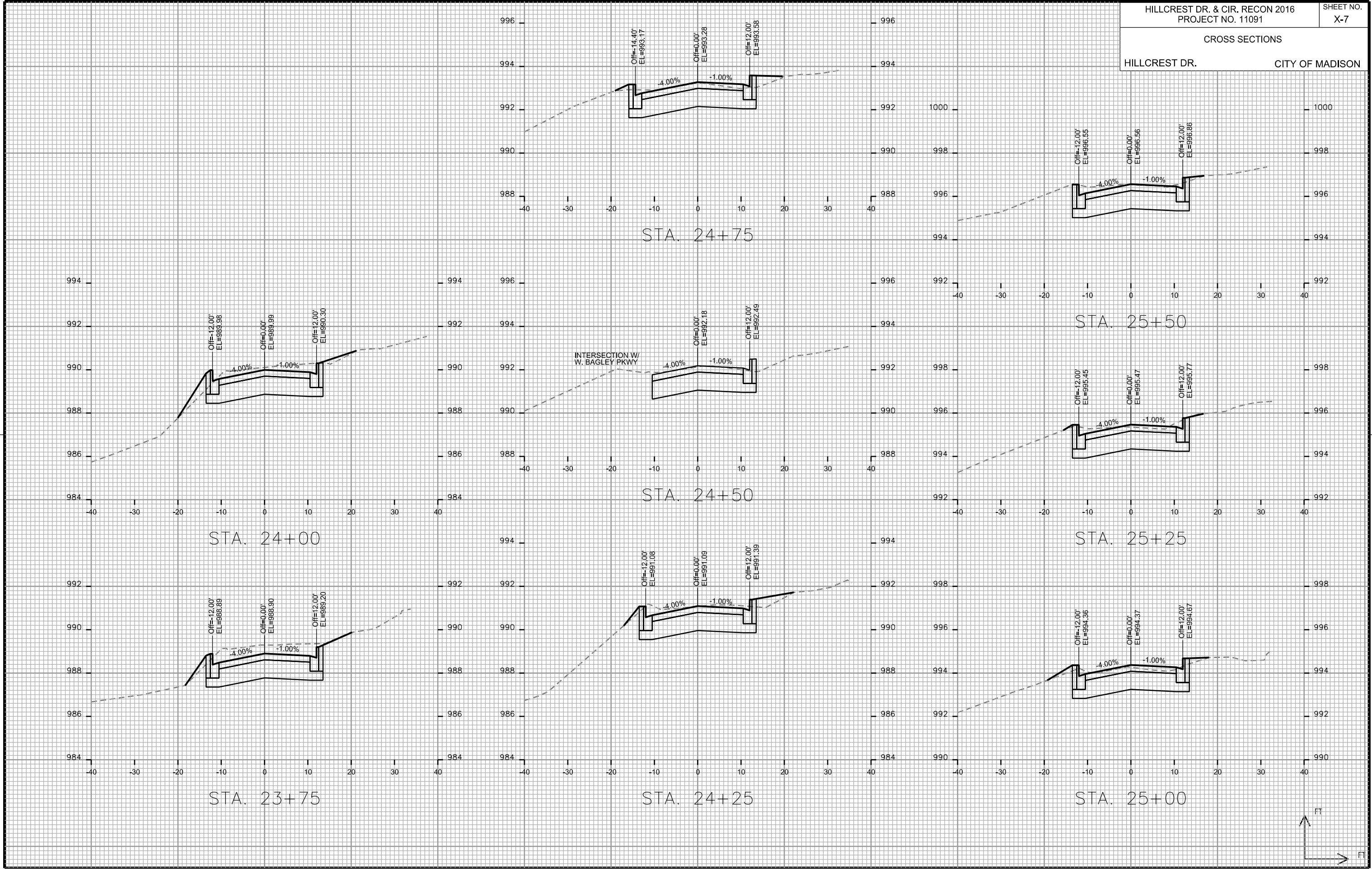
CROSS SECTIONS
HILLCREST DR. CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

HILLCREST DR.

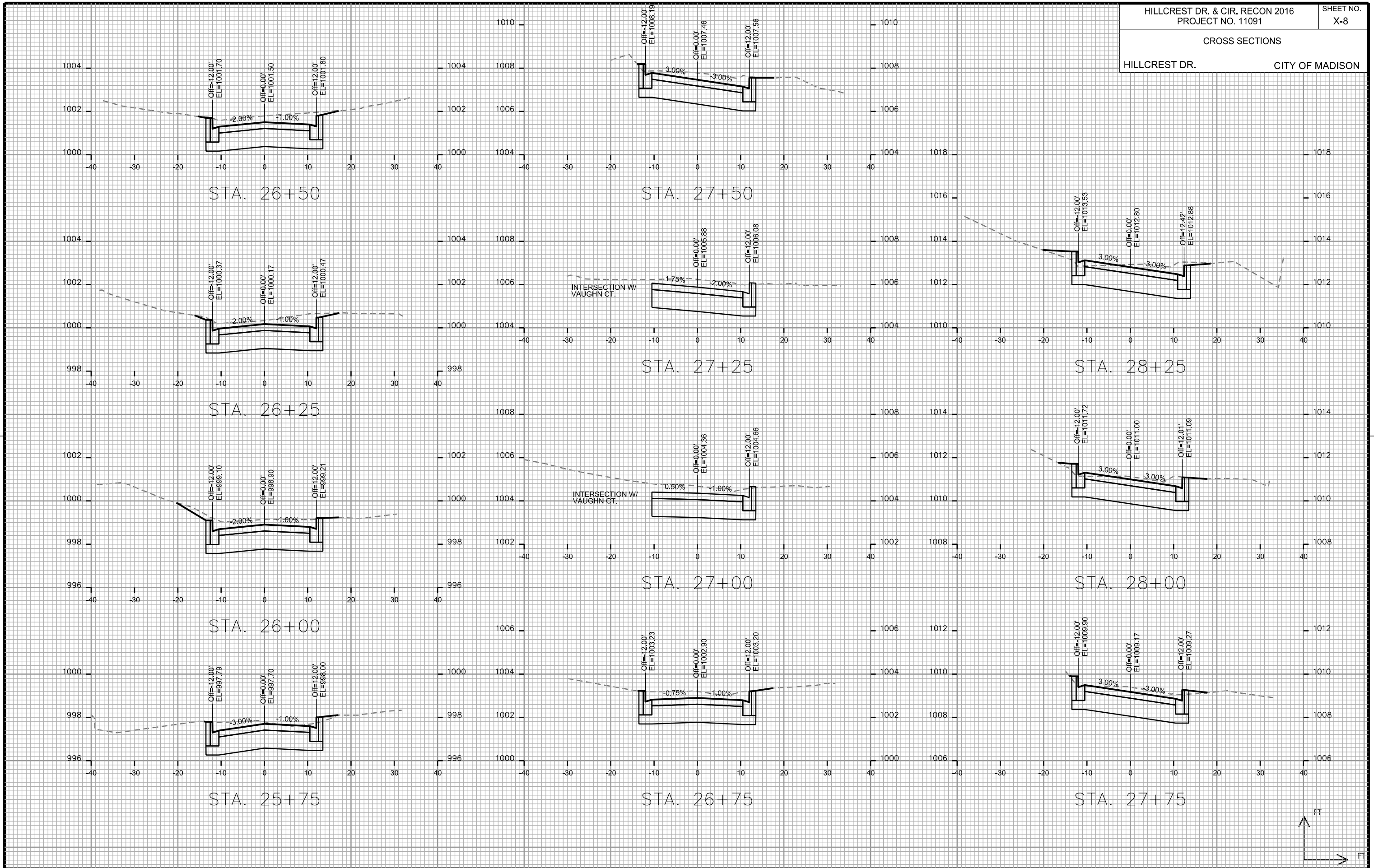
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

HILLCREST DR.

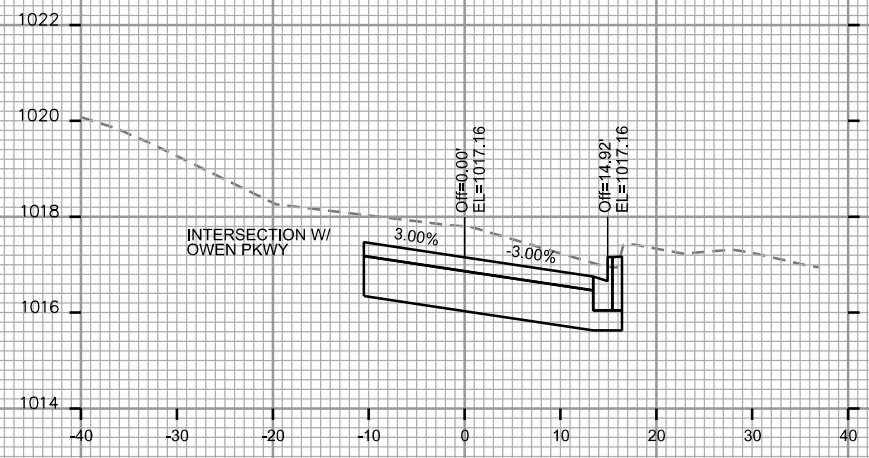
CITY OF MADISON

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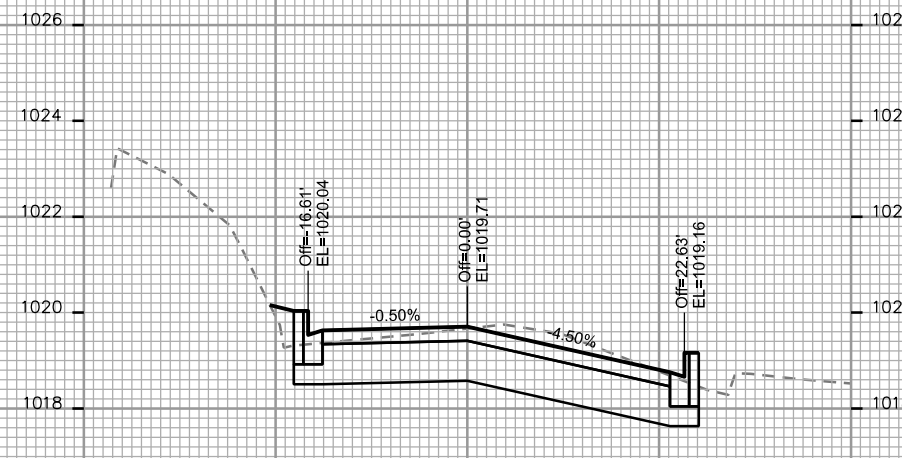
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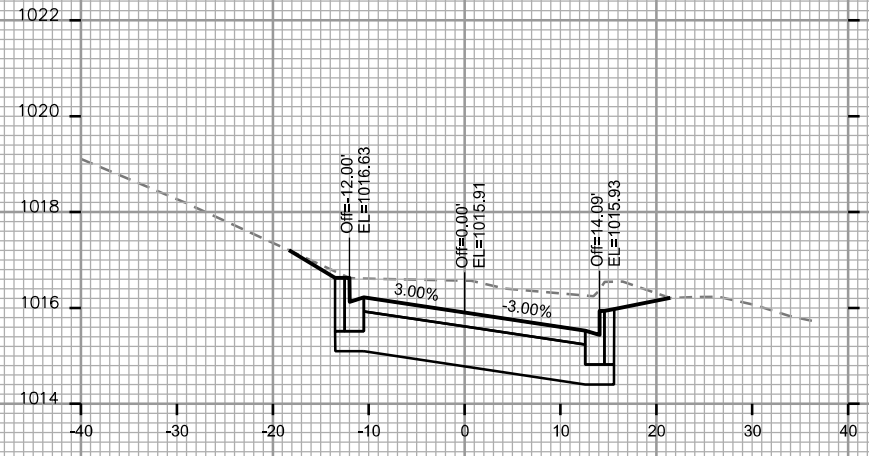
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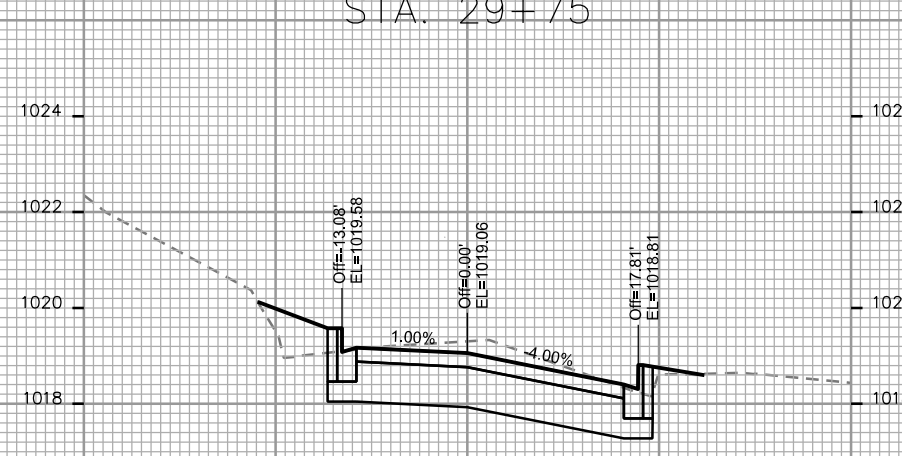
STA. 29+00



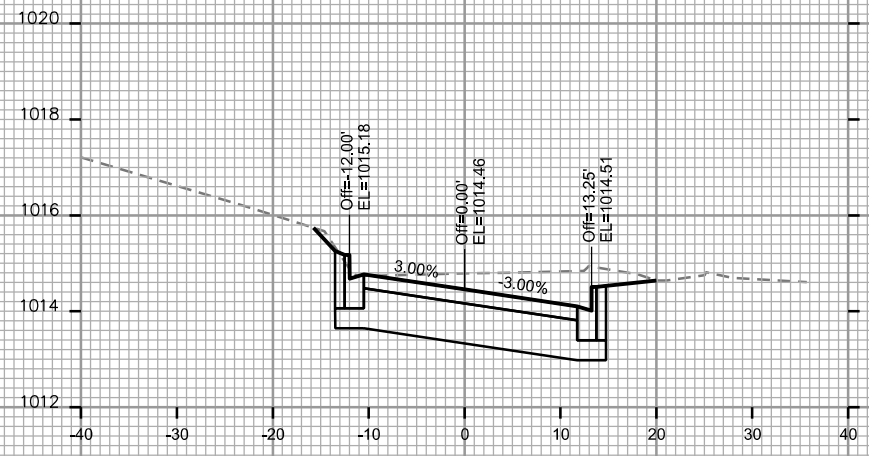
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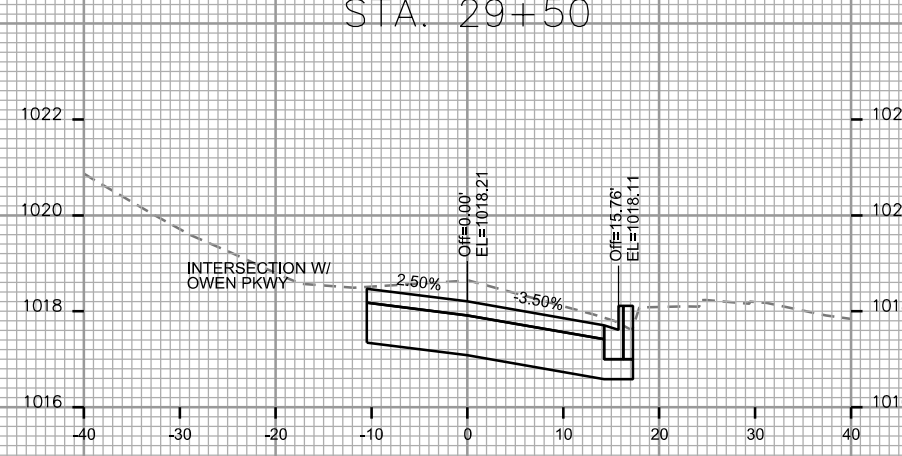
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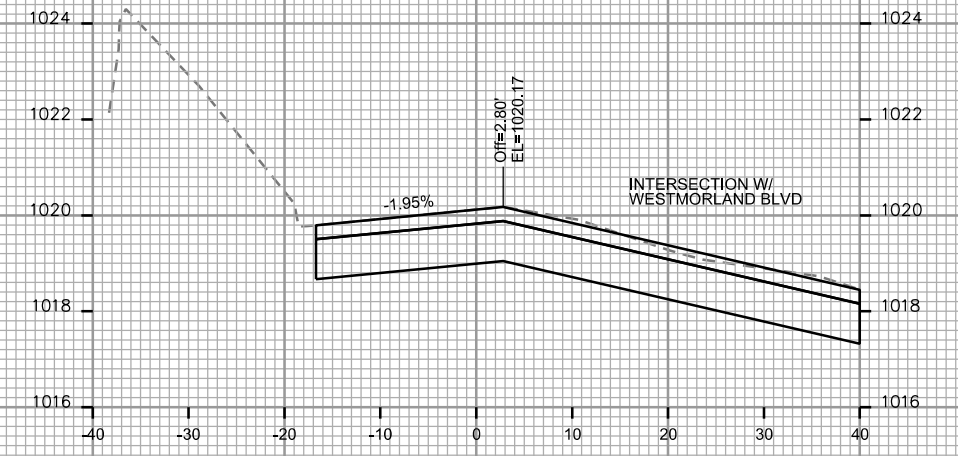
STA. 29+50



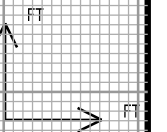
STA. 28+50



STA. 29+25



STA. 30+00



CROSS SECTIONS

HILLCREST CIR.

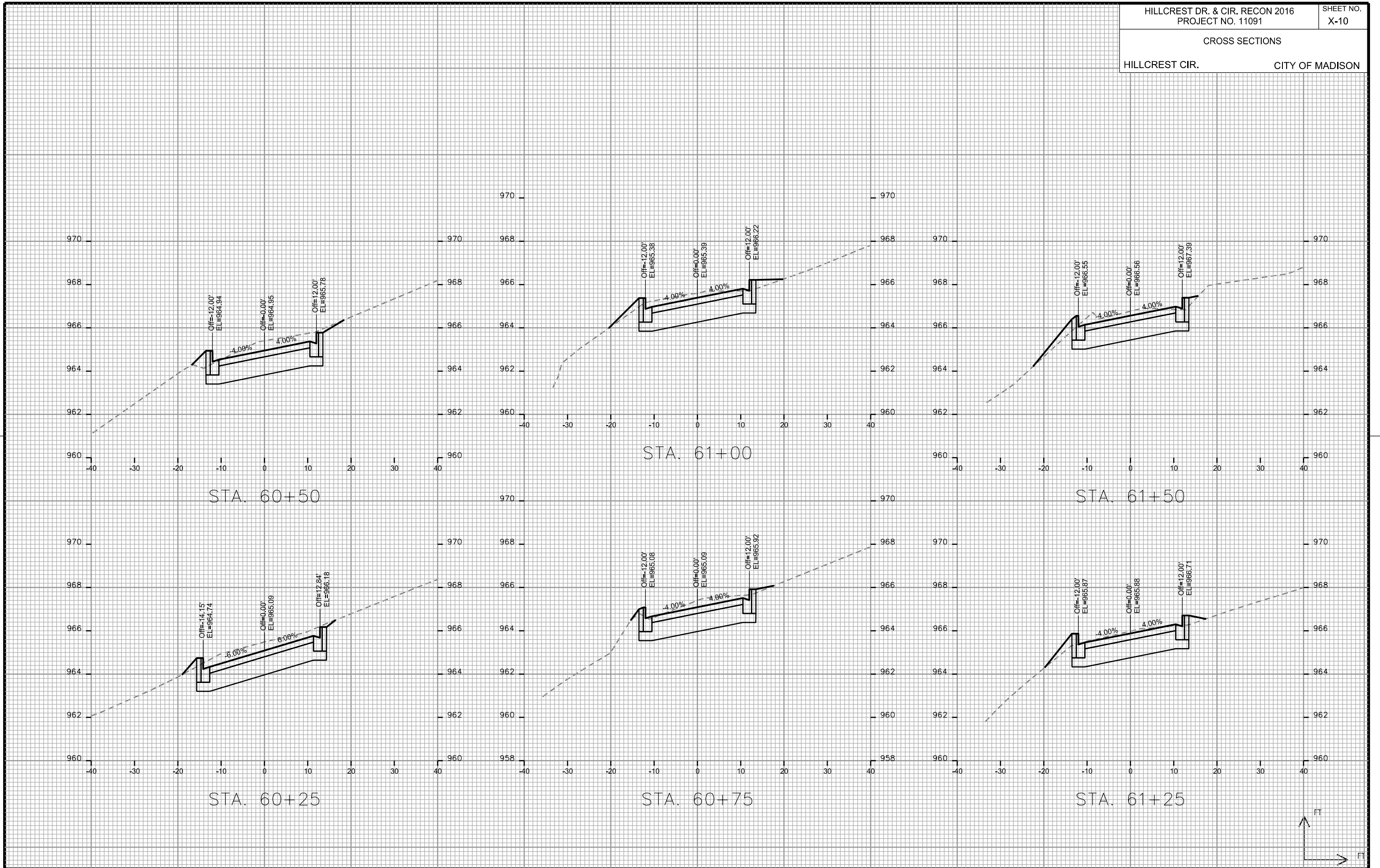
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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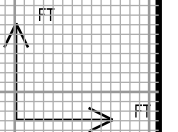
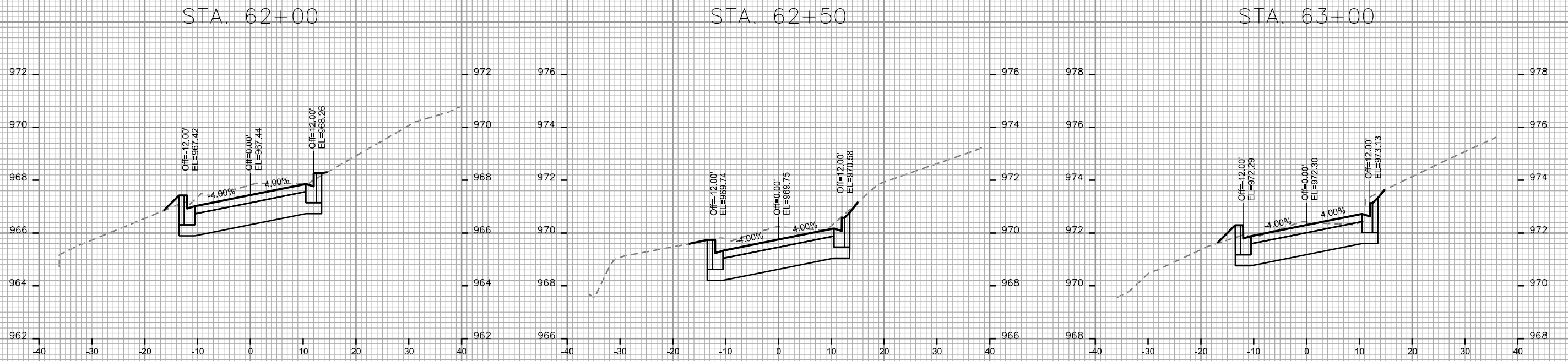
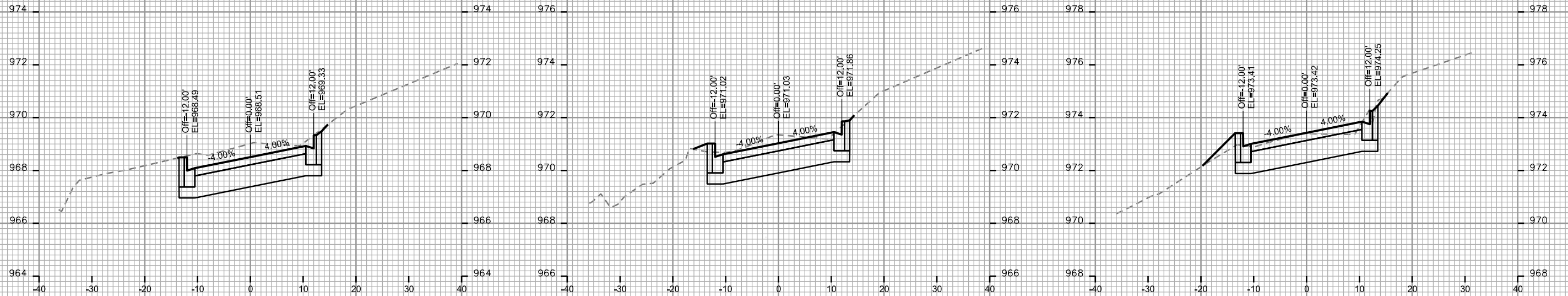
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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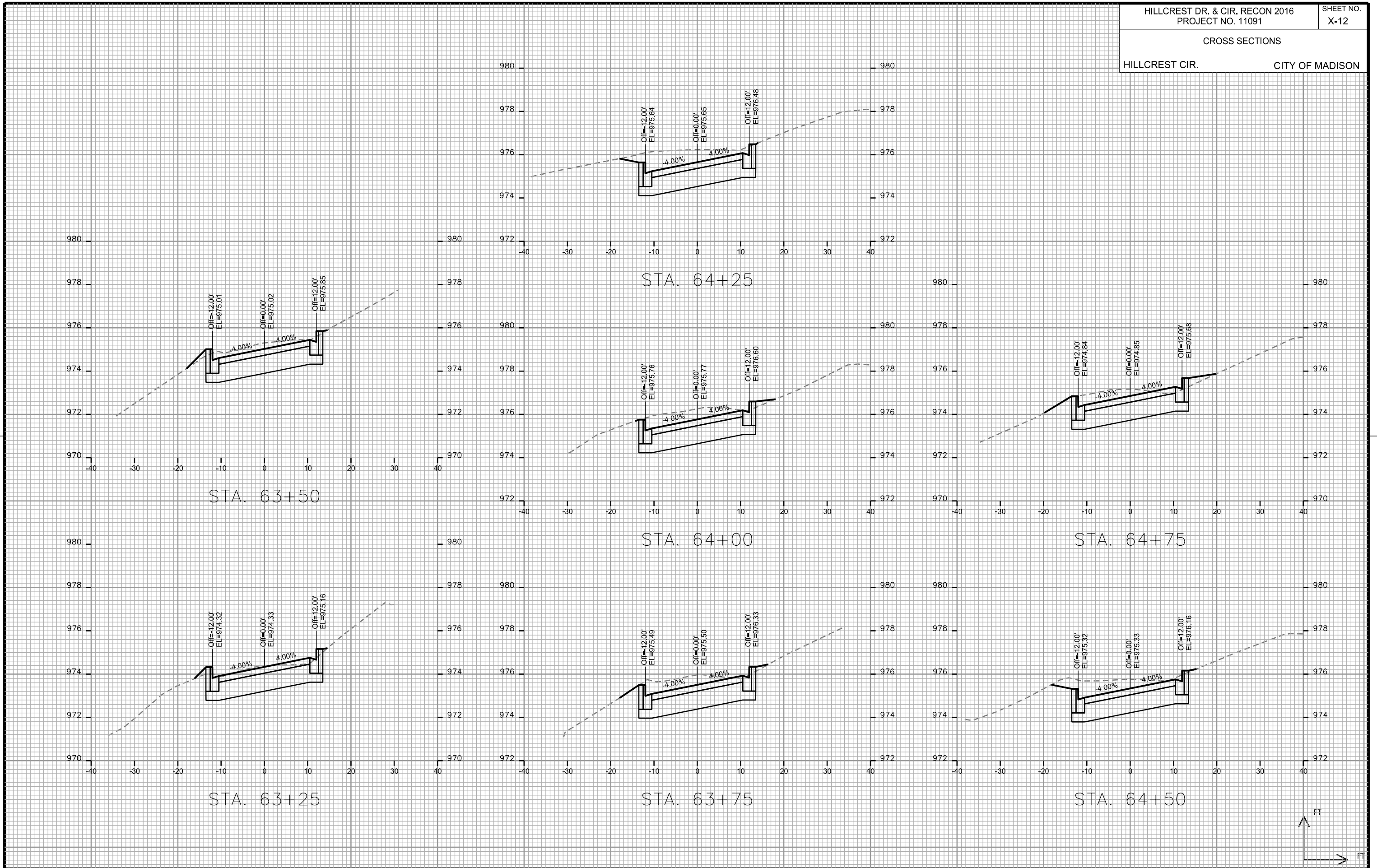
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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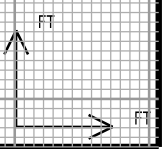
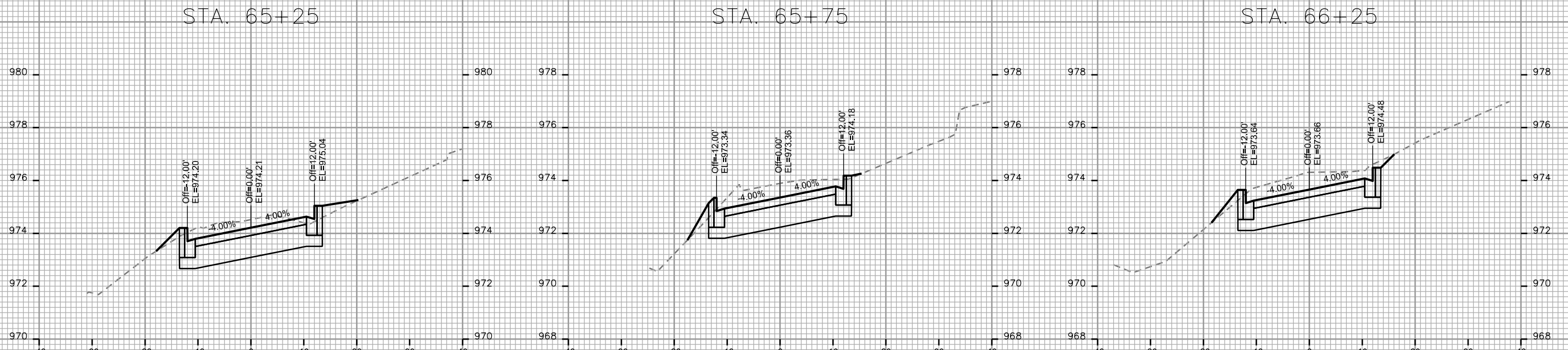
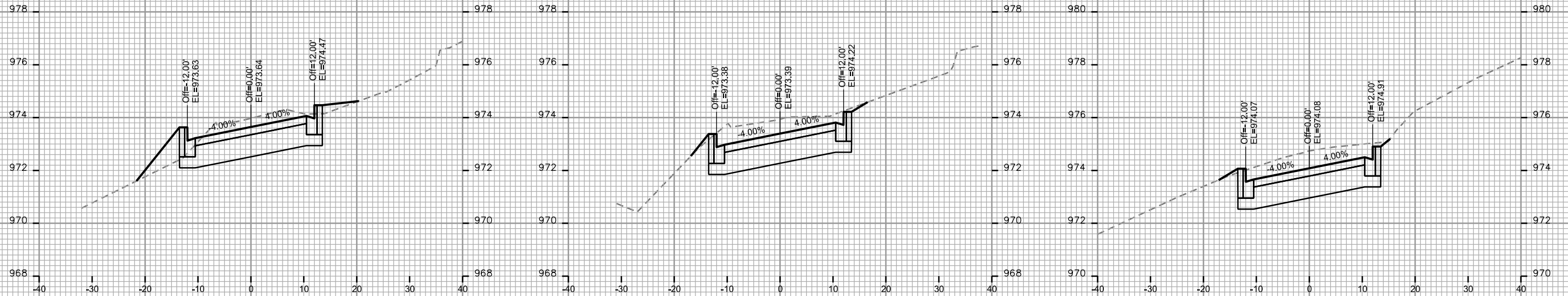
CITY OF MADISON

PLOT SCALE:

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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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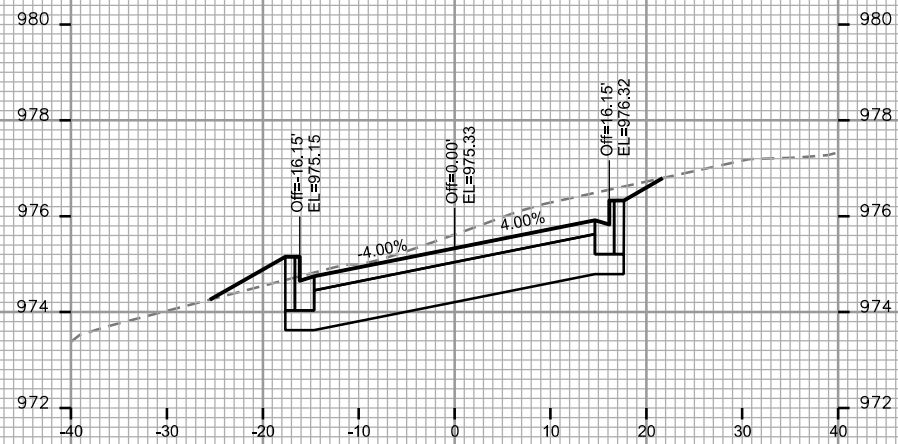
CITY OF MADISON

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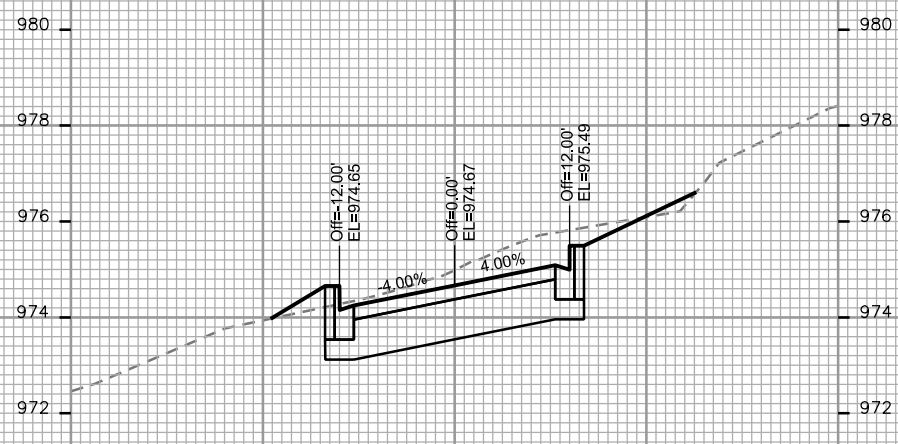
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 66+75



STA. 66+50

