

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

#### PLAN OF PROPOSED IMPROVEMENT

CONVENTIONAL SIGNS

COMBUSTIBLE FLUIDS



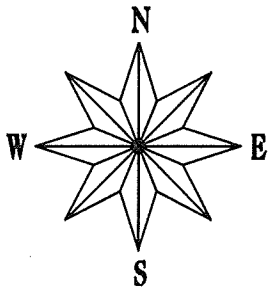
UNDERGROUND UTILITIES

NOTE: FIELD VERIFY UTILITIES

- STORM SEWER ——— ST ———
- SANITARY SEWER ——— SAN ———
- WATER ——— W ———
- POWER POLE □
- RAILROAD ———

#### INDEX OF SHEETS

SHEET NO. D1	TYPICAL SECTIONS
SHEET NO. EC1-EC4	EROSION CONTROL PLAN
SHEET NO. P1-P4	PLAN/PROFILE
SHEET NO. U1-U4	UTILITY PLAN/PROFILE
SHEET NO. U5	STORM SEWER SCHEDULE
SHEET NO. U6	SANITARY SEWER SCHEDULE
SHEET NO. W1-W4	WATER PLAN/PROFILE
SHEET NO. W5	WATER ESTIMATE OF MATERIAL
SHEET NO. W6	WATER IMPACT PLAN
SHEET NO. X1-X7	CROSS-SECTIONS



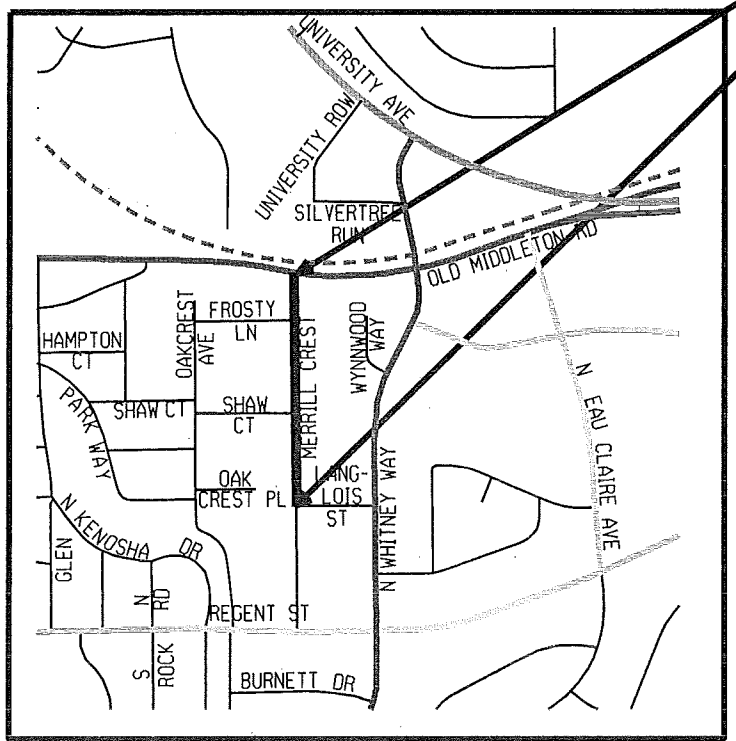
## MERRILL CREST DRIVE

### ASSESSMENT DISTRICT-2013

LANGLOIS ST TO OLD MIDDLETON RD

PROJECT NO. 53W1478  
CONTRACT NO. 6987

PROJECT LOCATION



#### EARTHWORK SUMMARY

EXCAVATION CUT	1527 CY
(PAID AS PLAN QUANTITY)	
UNDERCUT (EST.)	1509 CY
TOTAL	3036 CY

NOTES:  
THE CROSS SLOPE OF SIDEWALK AND BARRIER FREE WALK RAMP SHALL NOT EXCEED 2%. THE LONGITUDINAL GRADE OF BARRIER FREE WALK RAMP SHALL NOT EXCEED 8.33%.

STREET PROJECT APPROVED  
MARCH 5, 2013  
BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

DESIGN APPROVED BY:

*[Signature]* 4/5/13  
City Engineer Date

STREET DESIGNED BY:

LE ANNE K. HANLAN  
E-23729  
MADISON WI  
4/4/13

STORM SEWER DESIGNED BY:

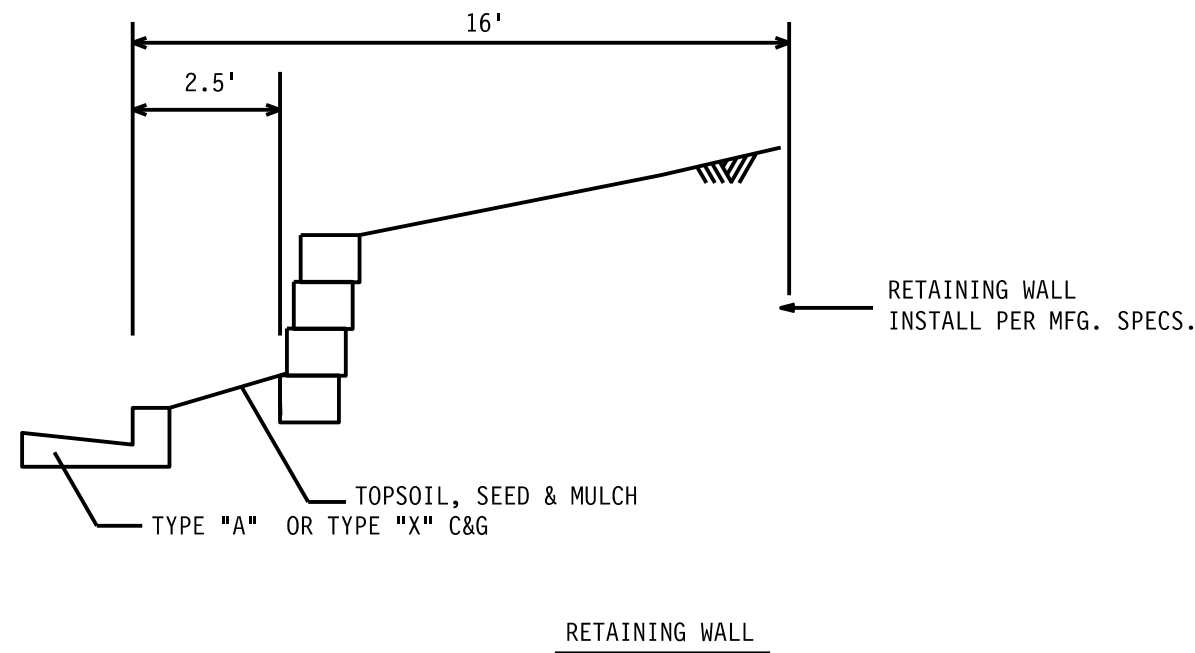
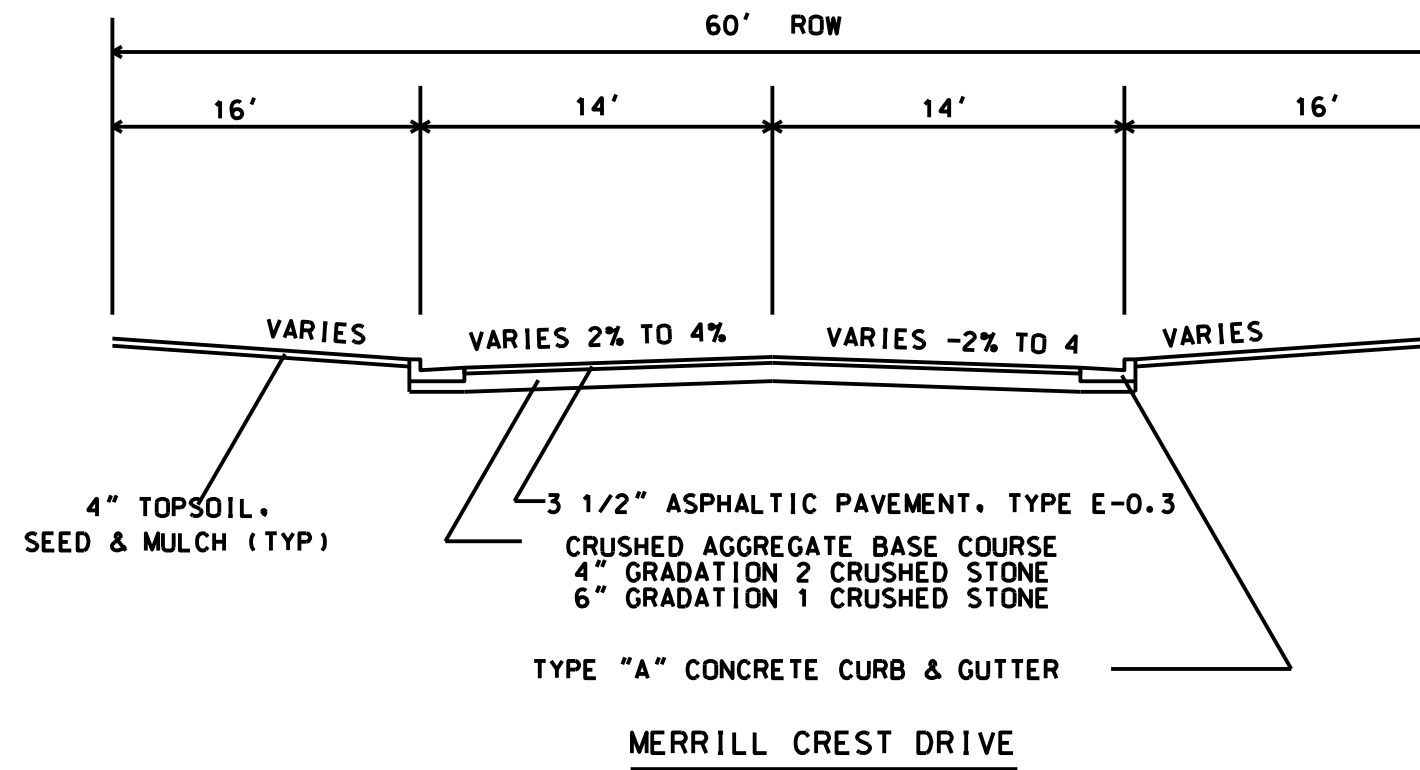
GREGORY I. FROES  
E-20056  
MADISON WI  
4/13

WATER DESIGNED BY:

PETER E. HOLMGREN  
E-42156  
MADISON WI  
4/5/2013

SANITARY SEWER DESIGNED BY:

MARK D. MODER  
E-33979  
MADISON WI  
4/5/13

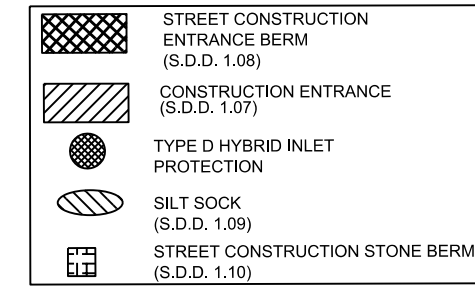
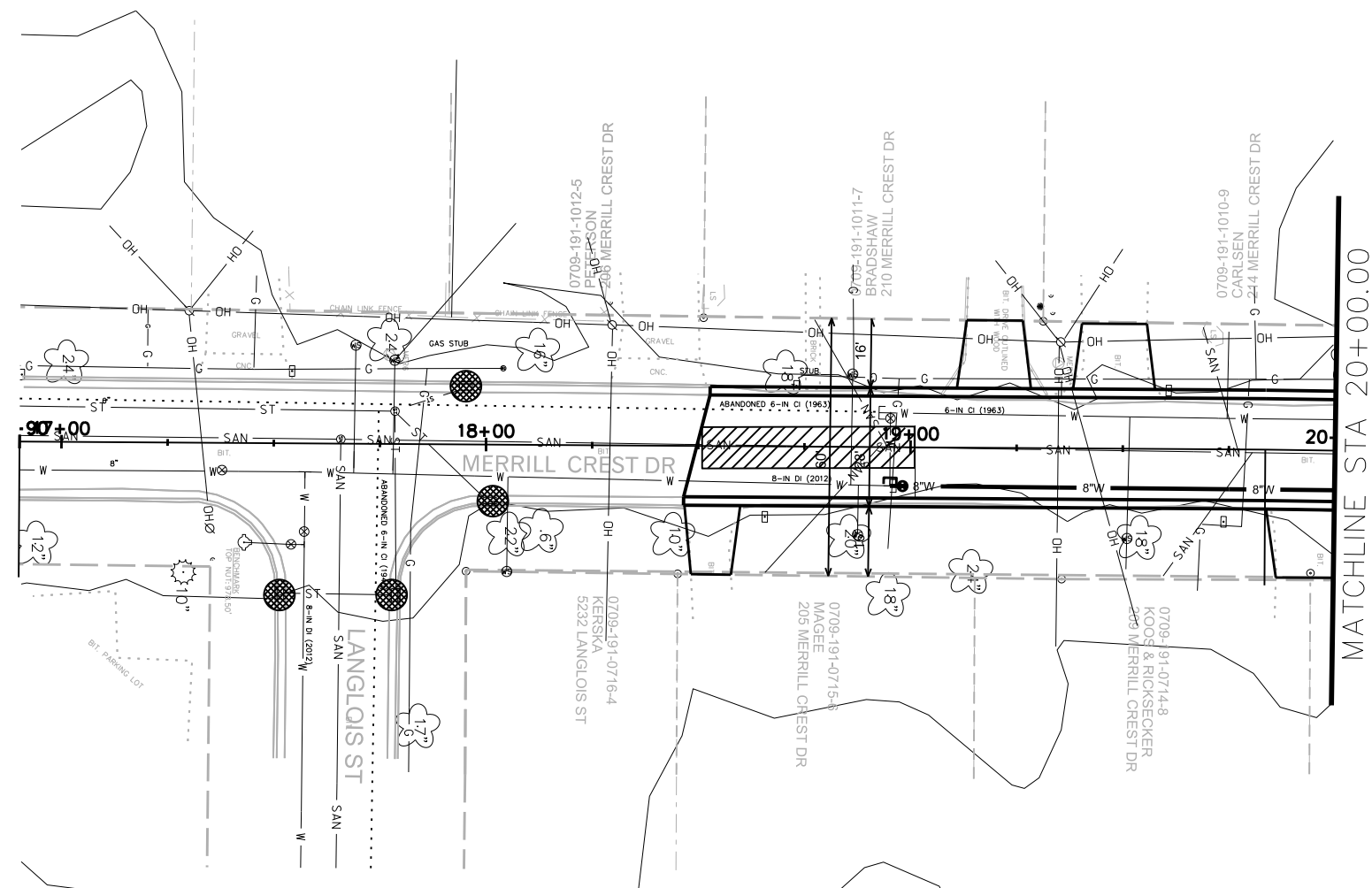
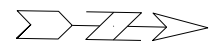


LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

EROSION CONTROL  
PLAN AND PROFILE

MERRIL CREST DR

CITY OF MADISON



**EROSION CONTROL NOTES:**

PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.

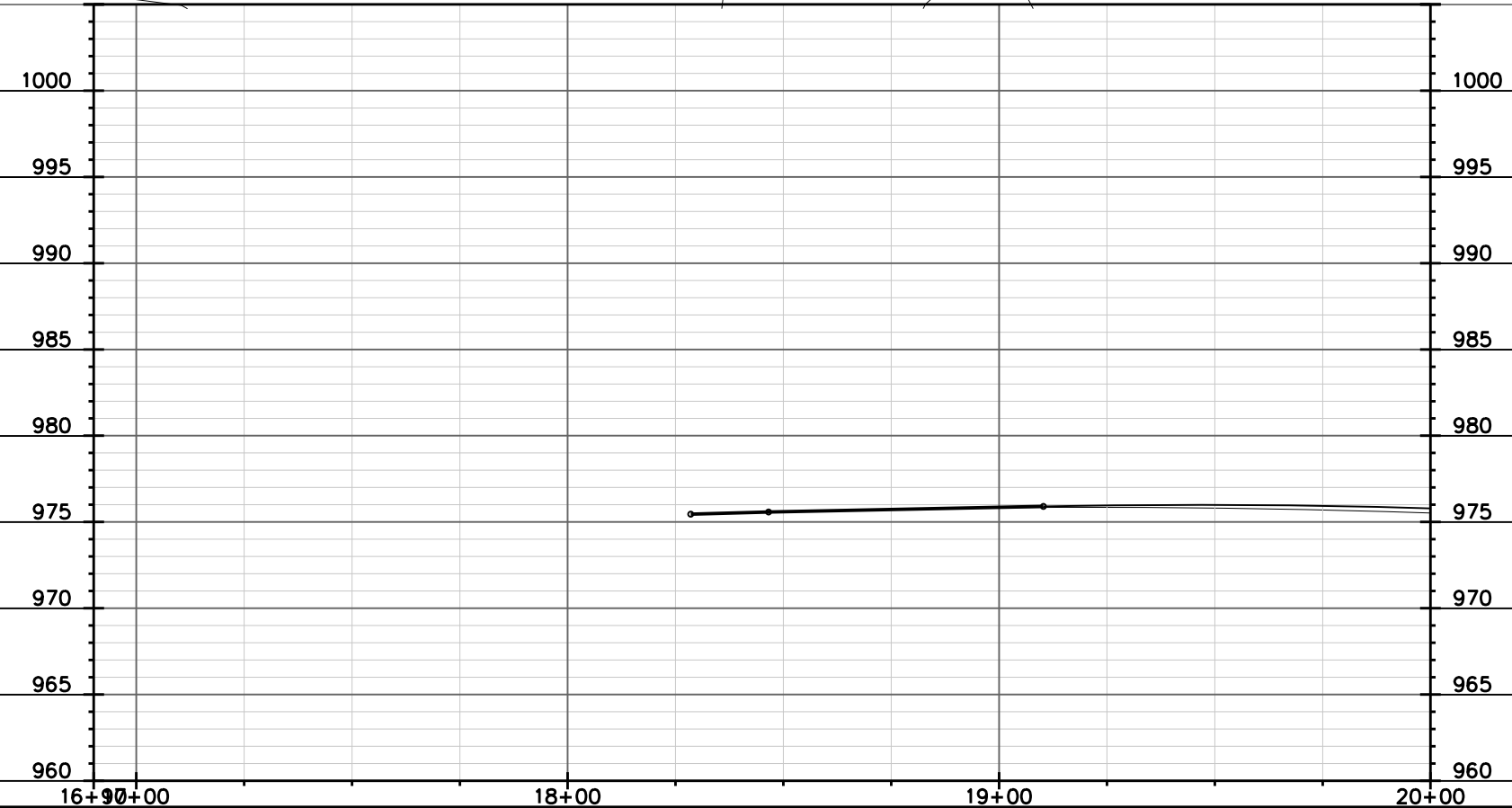
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

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 WDNR SOC 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.

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



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

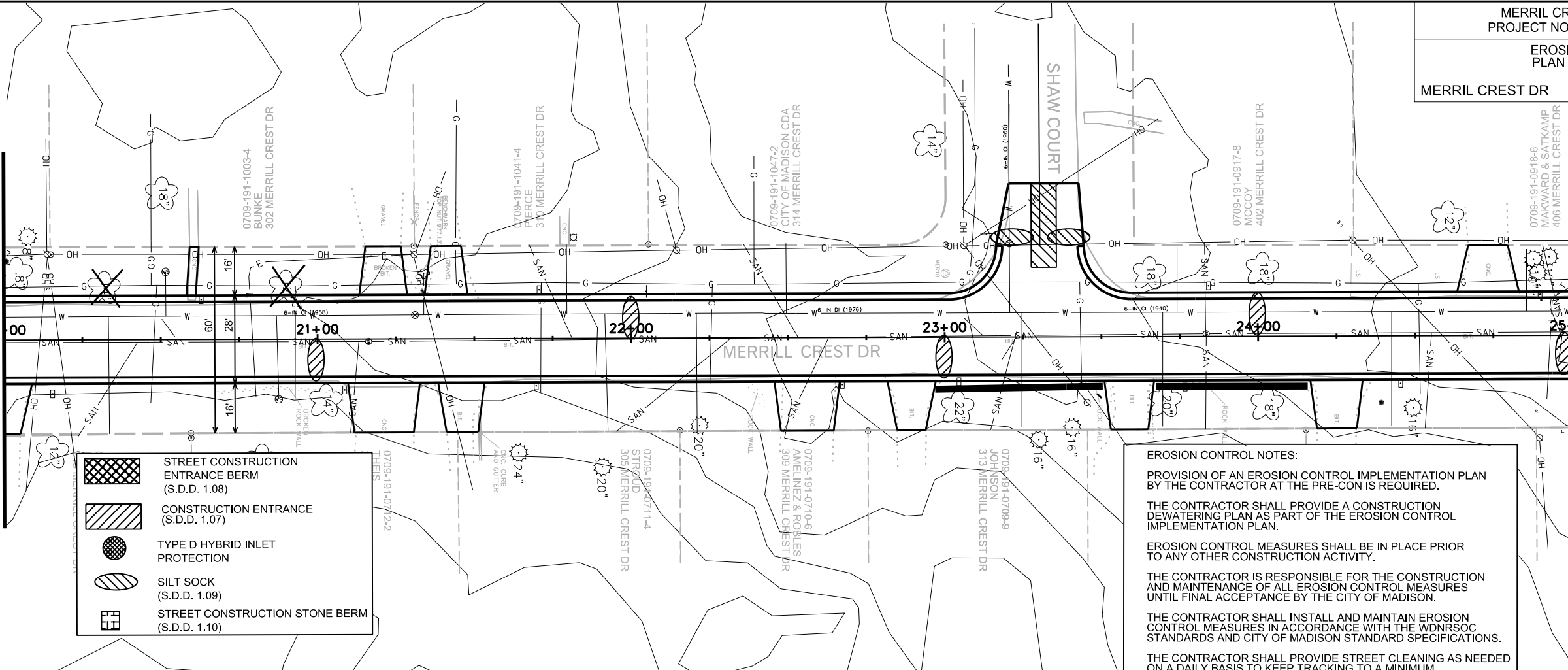
EROSION CONTROL  
PLAN AND PROFILE

MERRIL CREST DR

CITY OF MADISON

MATCHLINE STA 20+00.00

MATCHLINE STA 25+00.00



	STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
	CONSTRUCTION ENTRANCE (S.D.D. 1.07)
	TYPE D HYBRID INLET PROTECTION
	SILT SOCK (S.D.D. 1.09)
	STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)

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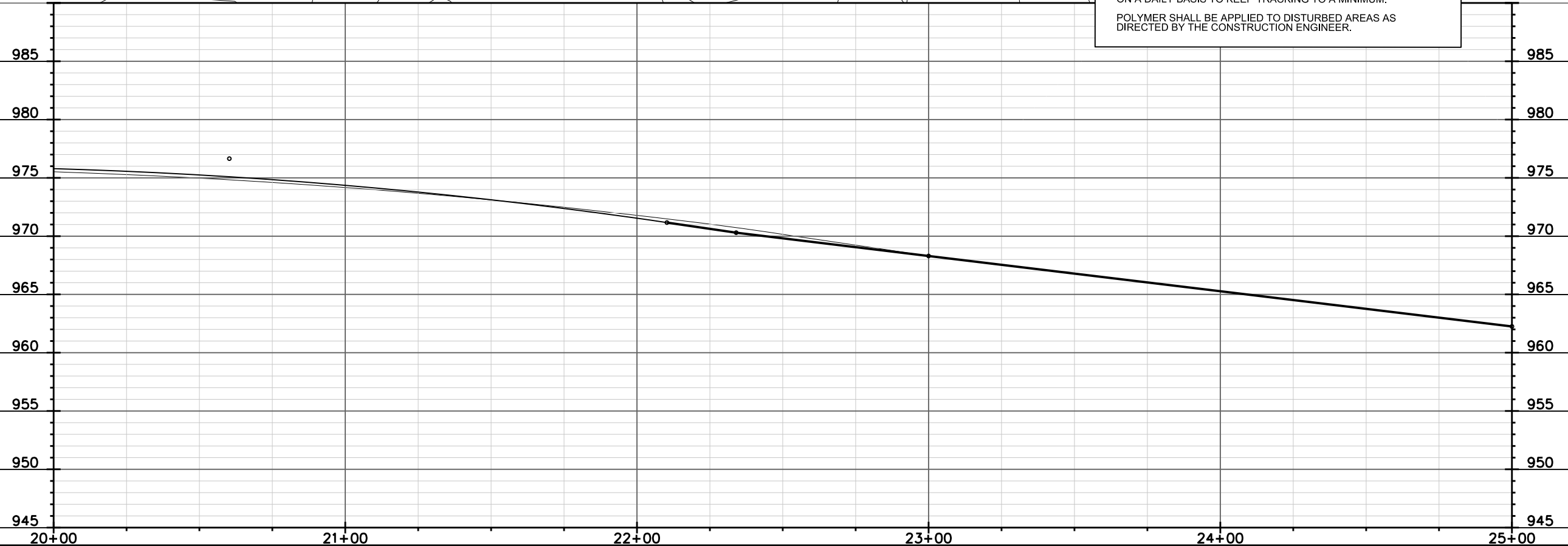
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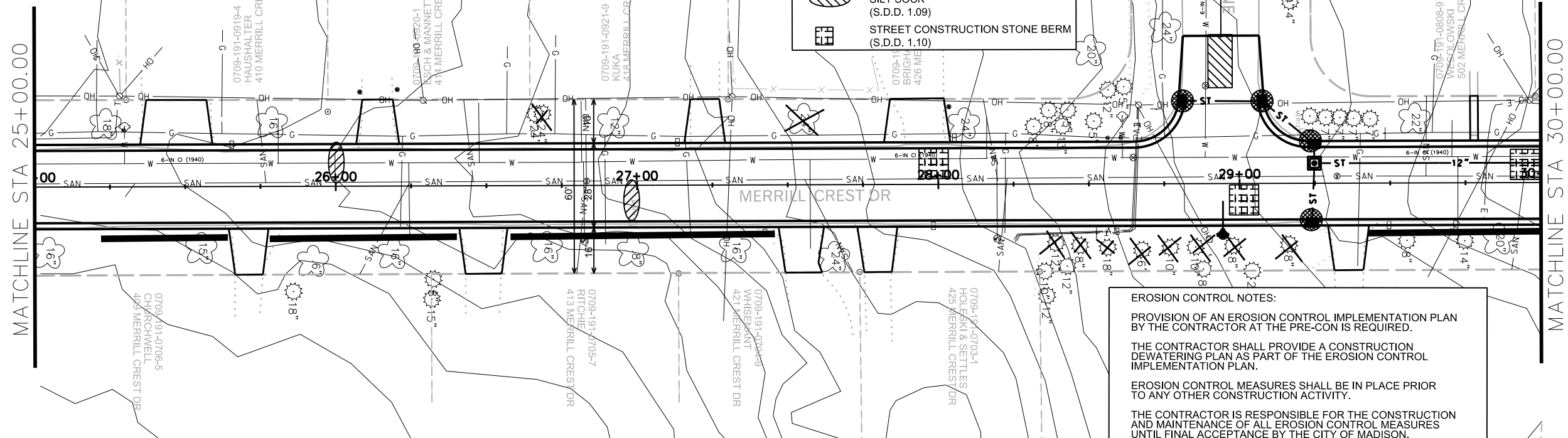
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EROSION CONTROL  
PLAN AND PROFILE

MERRIL CREST DR

CITY OF MADISON

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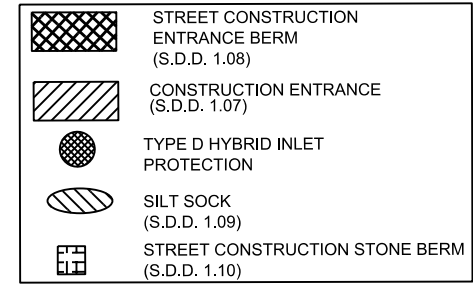
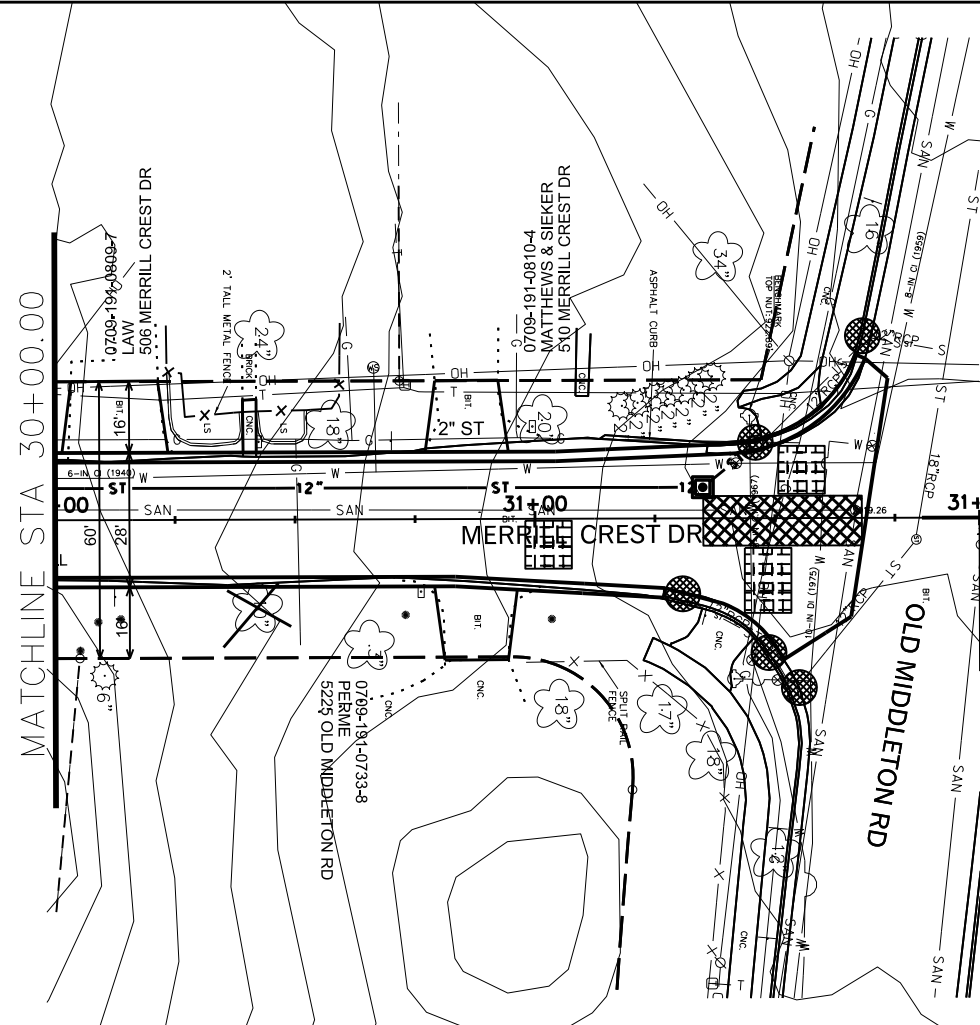
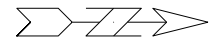


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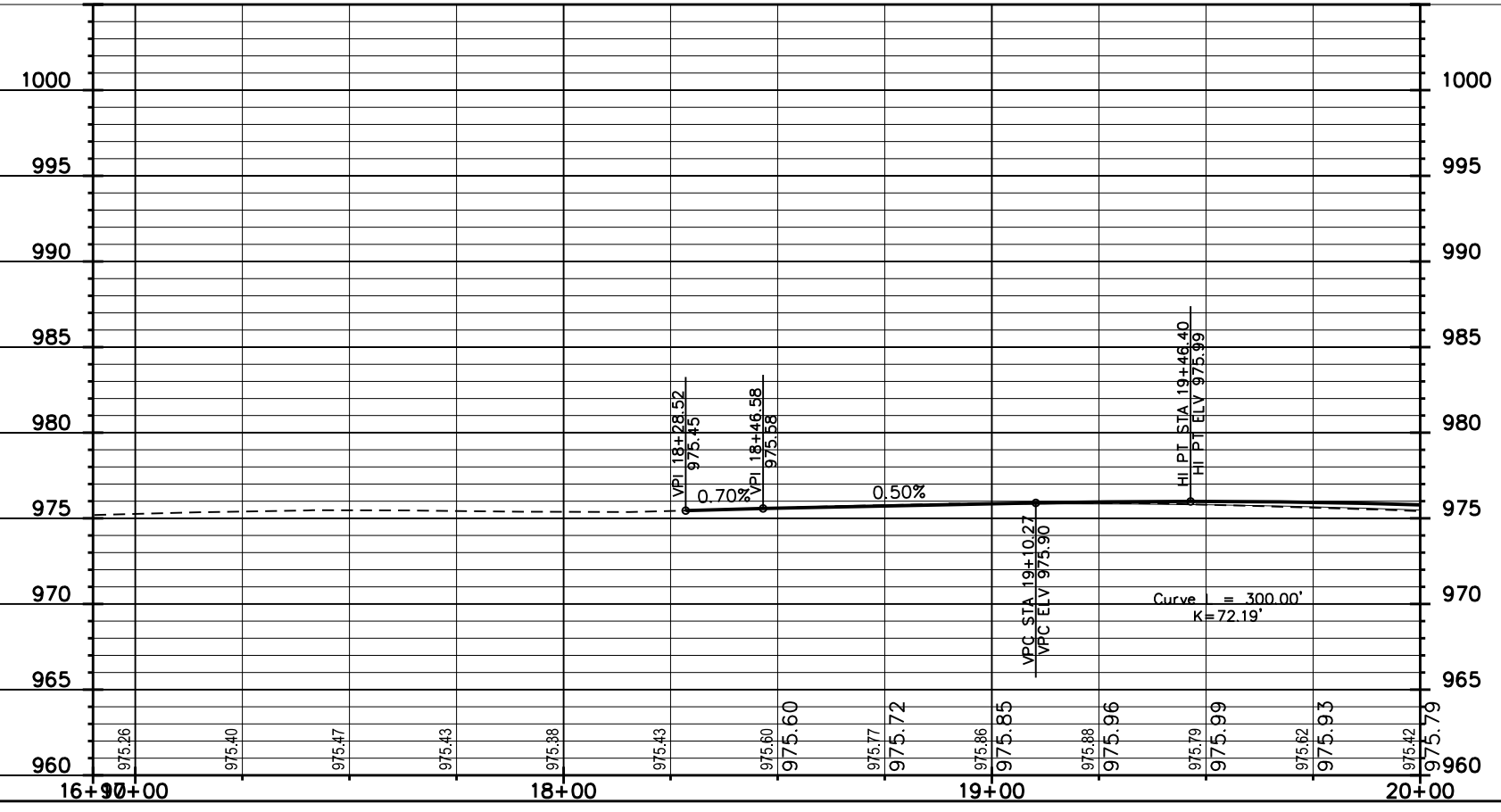
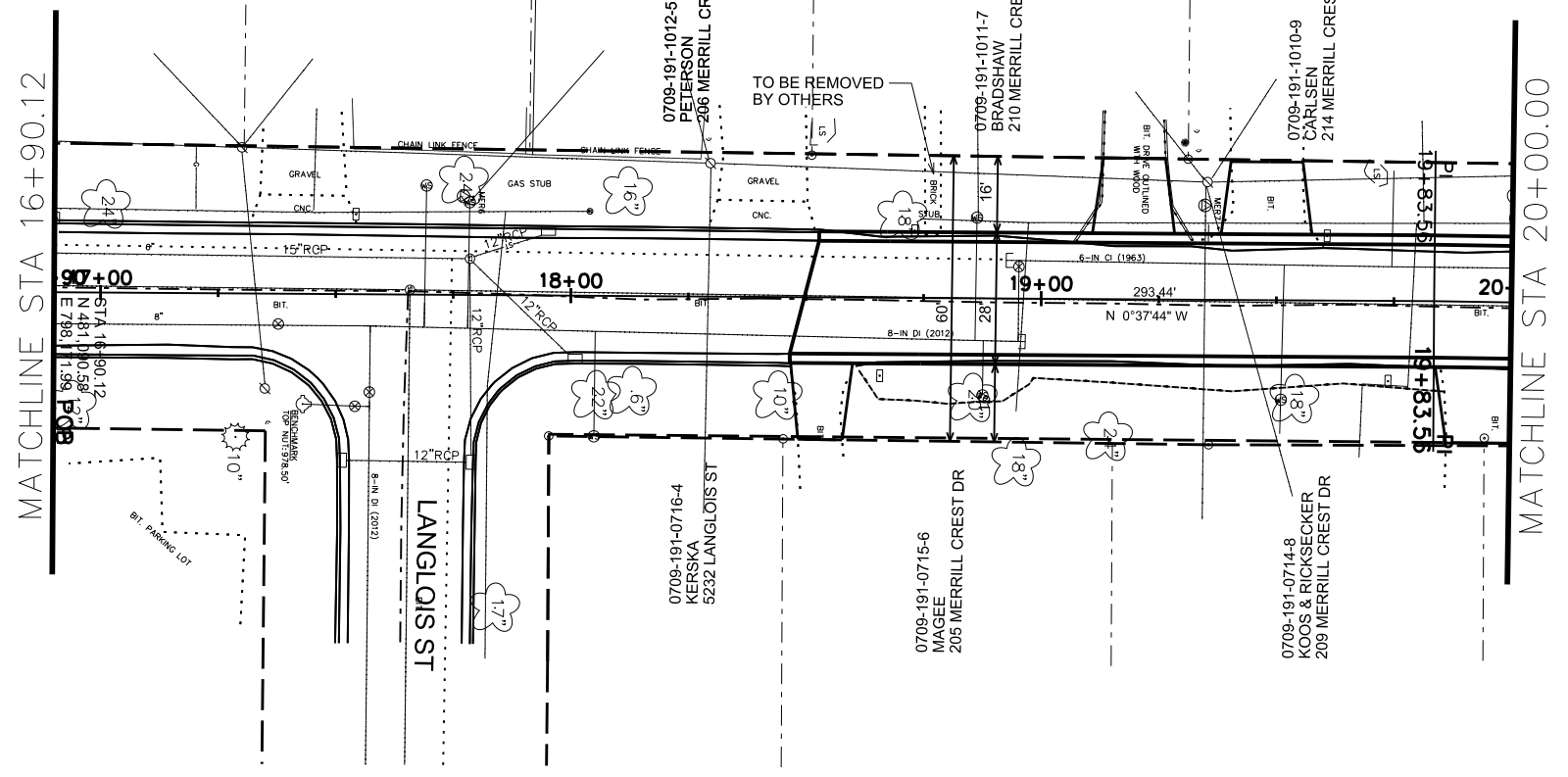
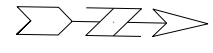
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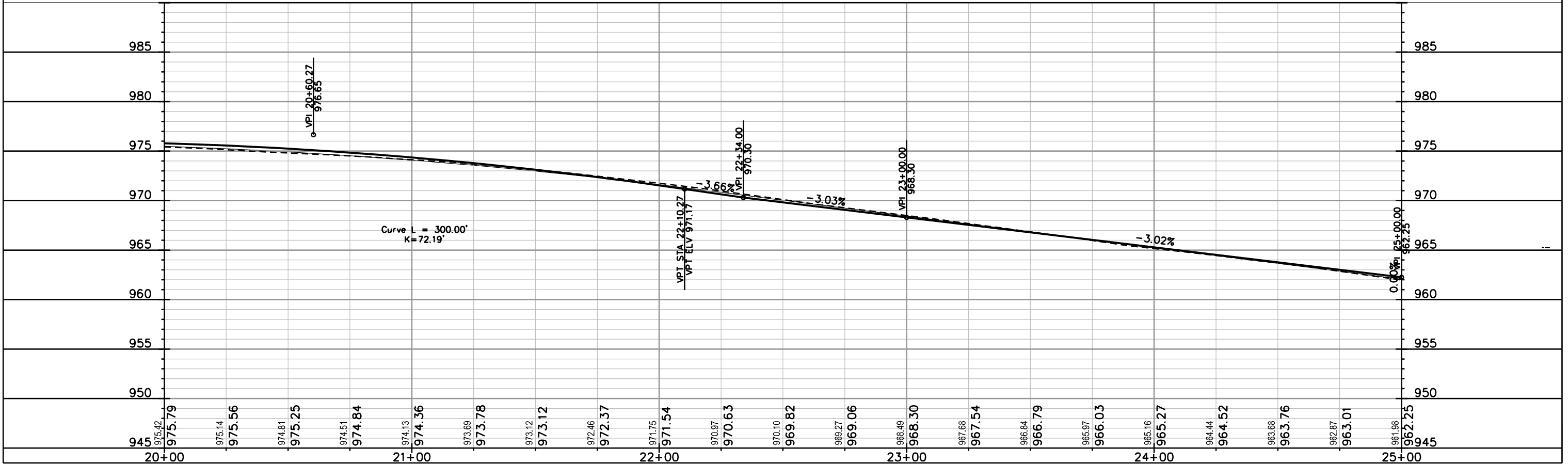
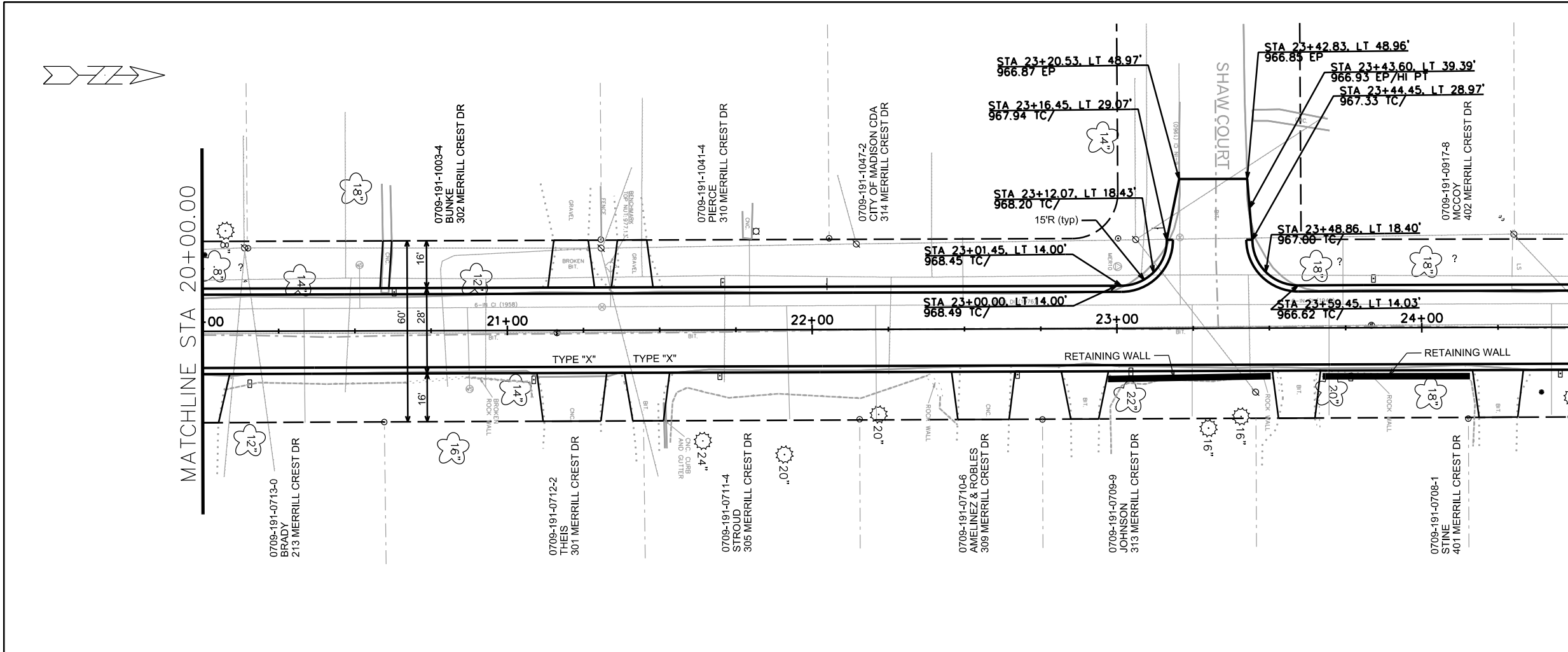


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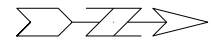


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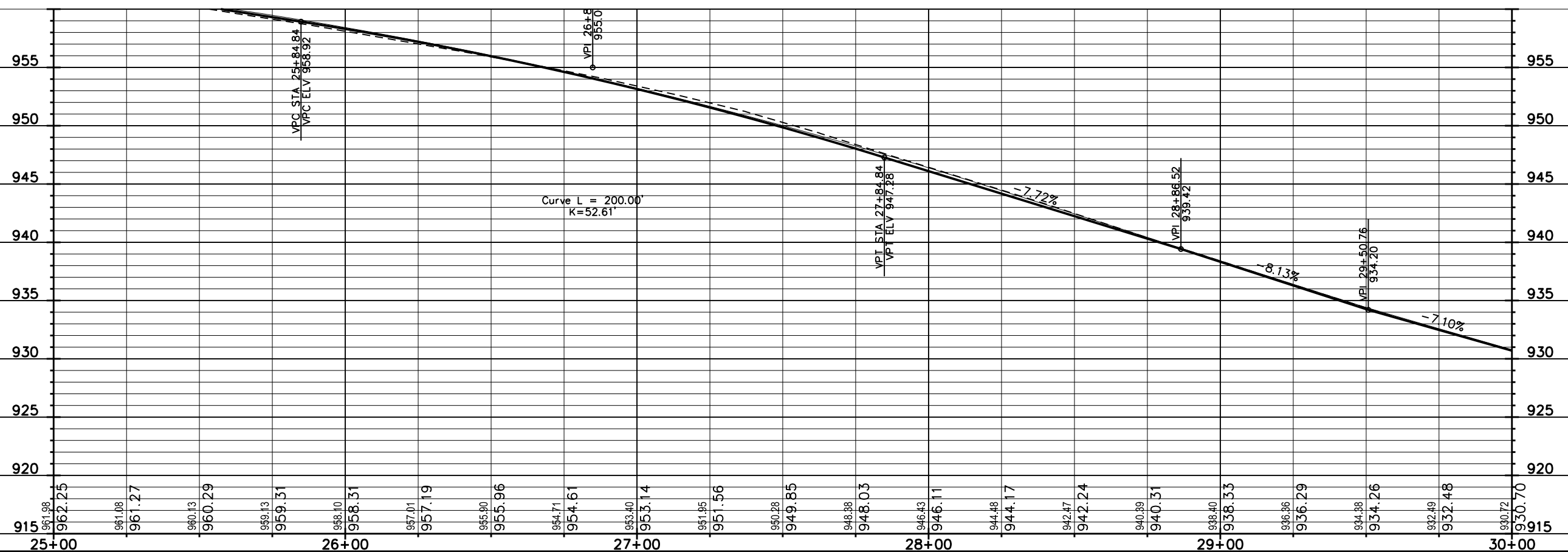
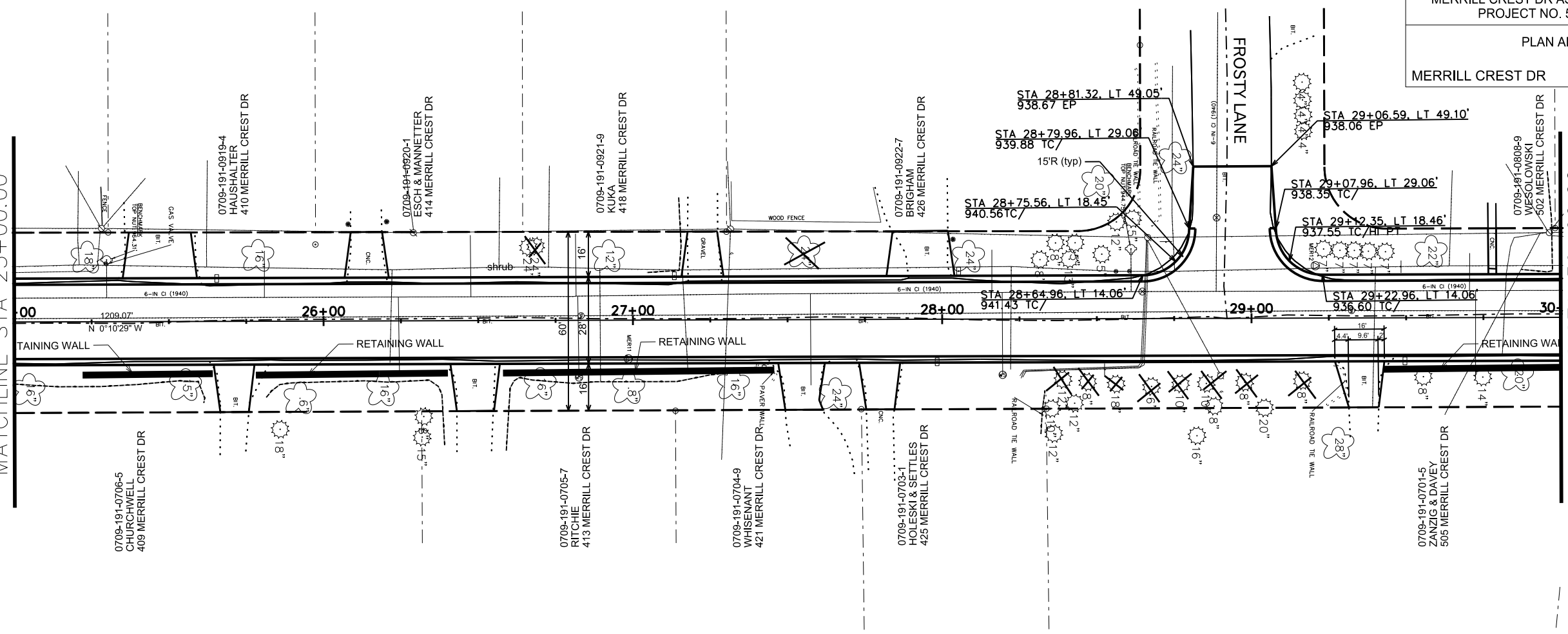
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MATCHLINE STA 25+00.00

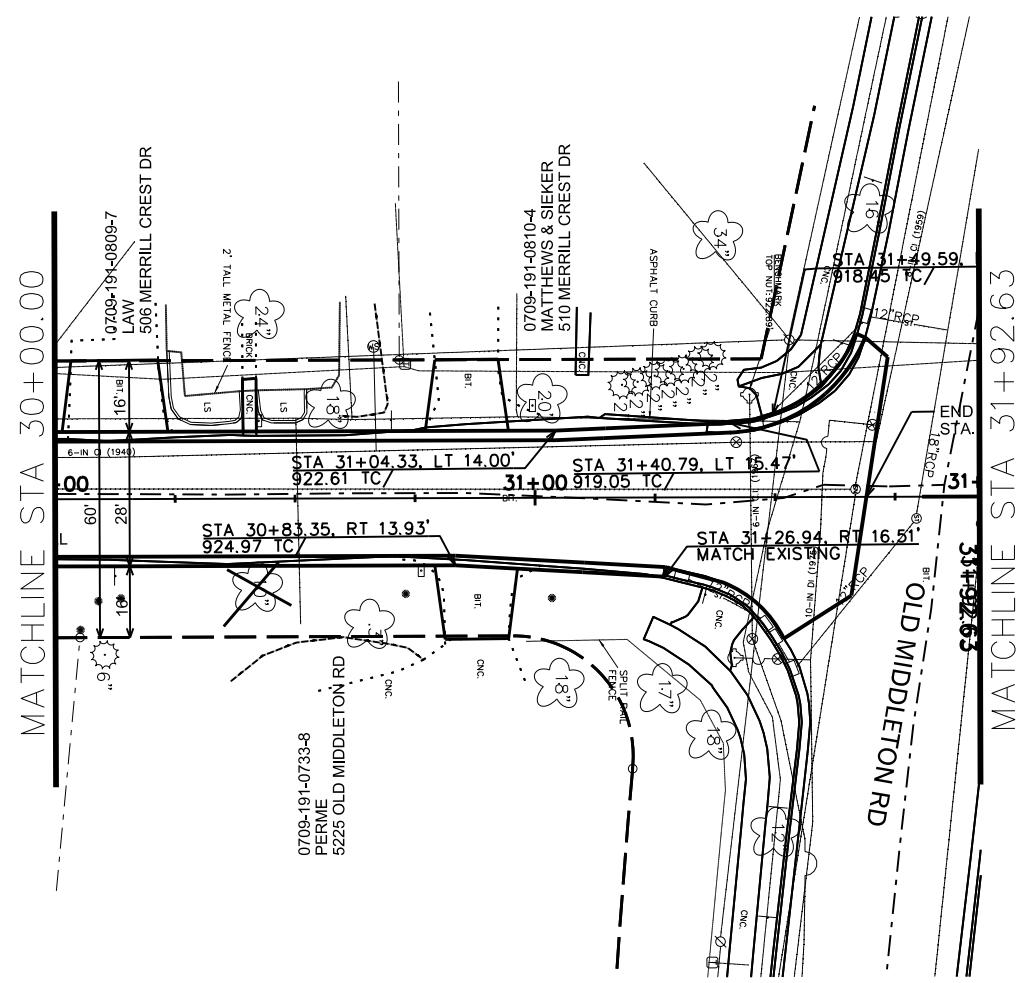
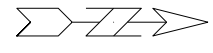
MATCHLINE STA 30+00.00



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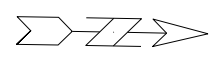
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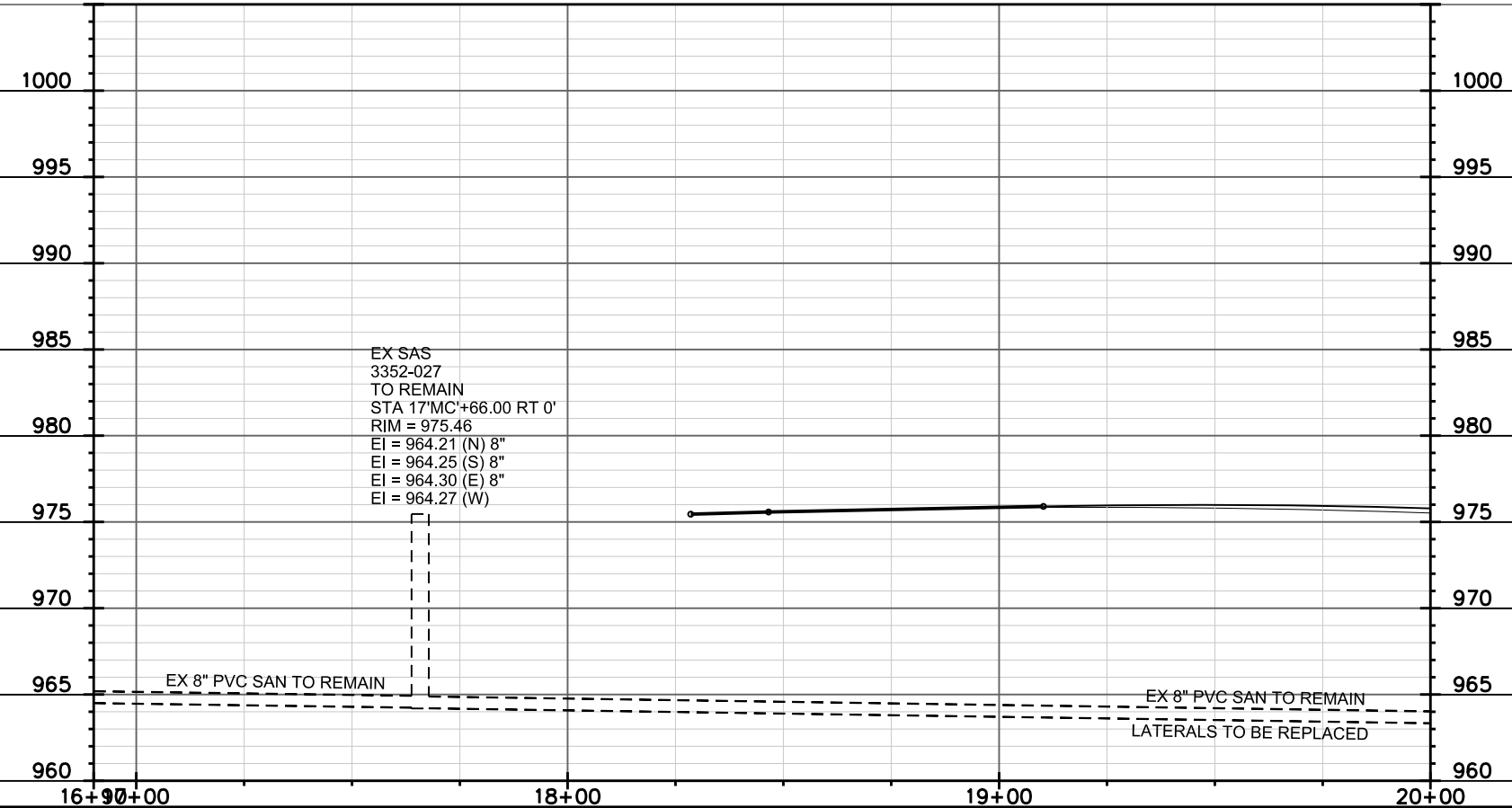
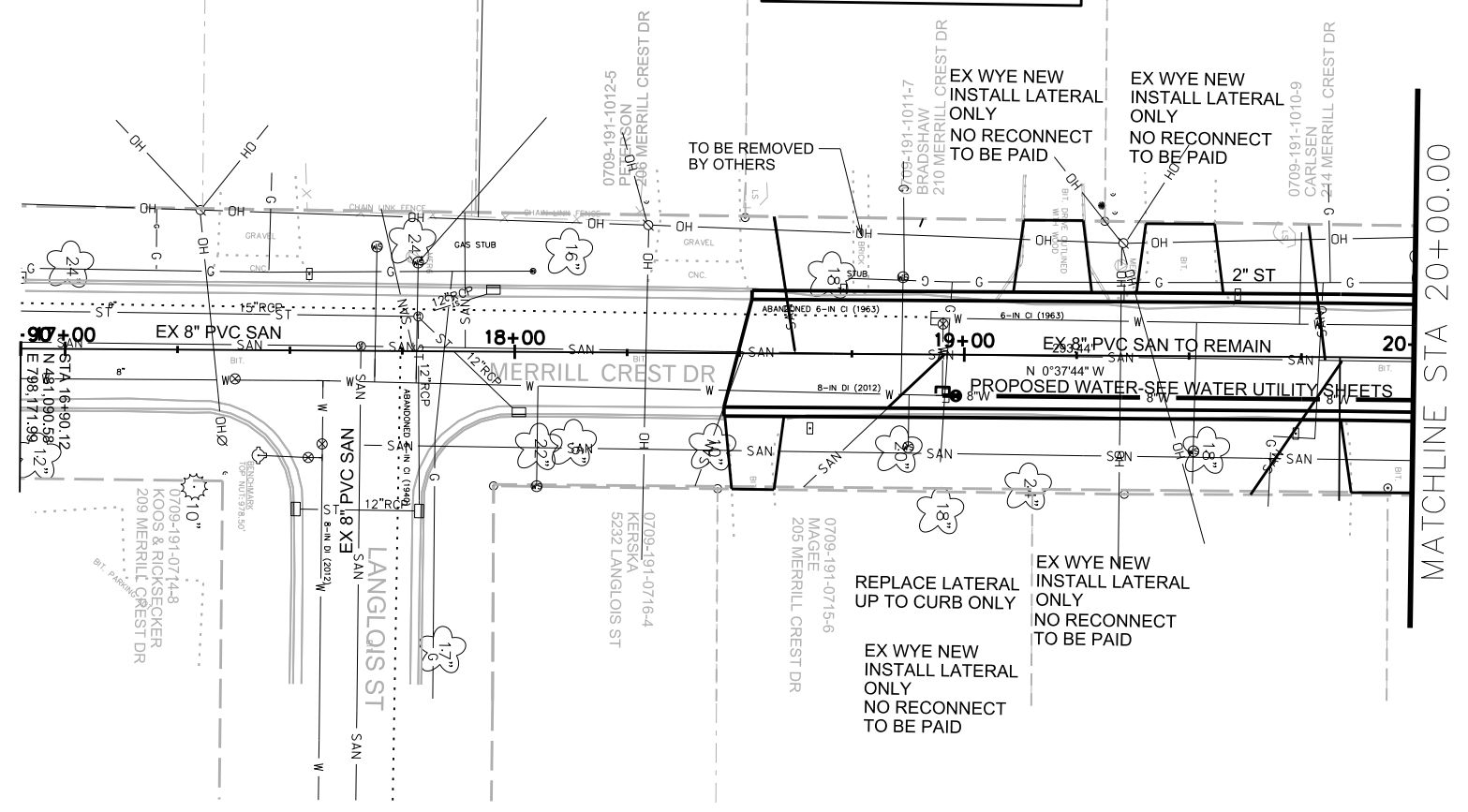
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ALL SANITARY SEWER LATERALS  
LOCATED BY TV INSPECTION AND  
CITY RECORDS ONLY. NO LATERAL  
LOCATES WERE COMPLETED.



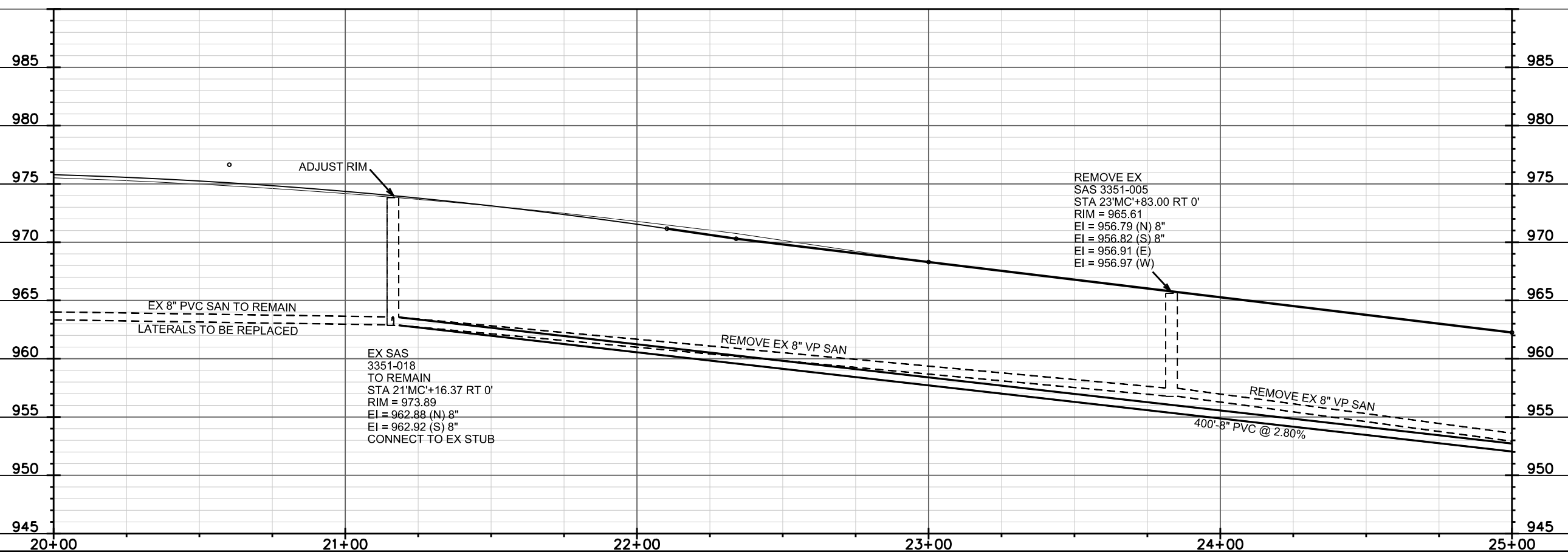
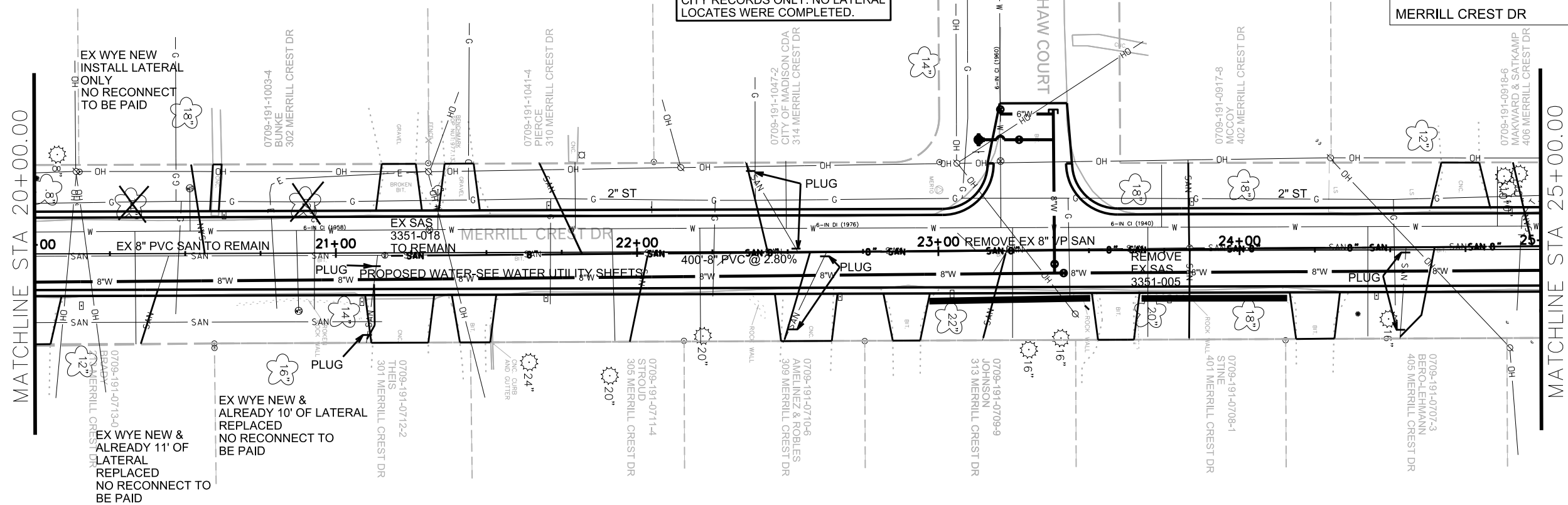
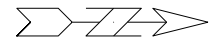
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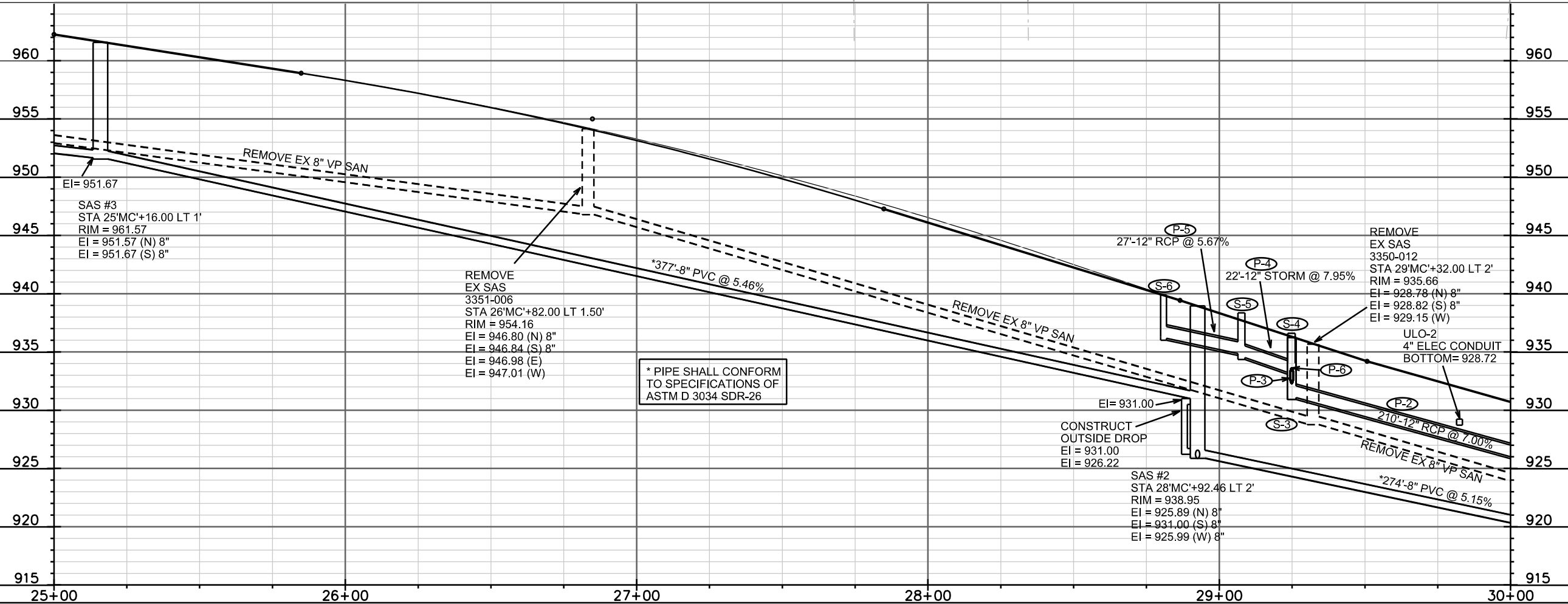
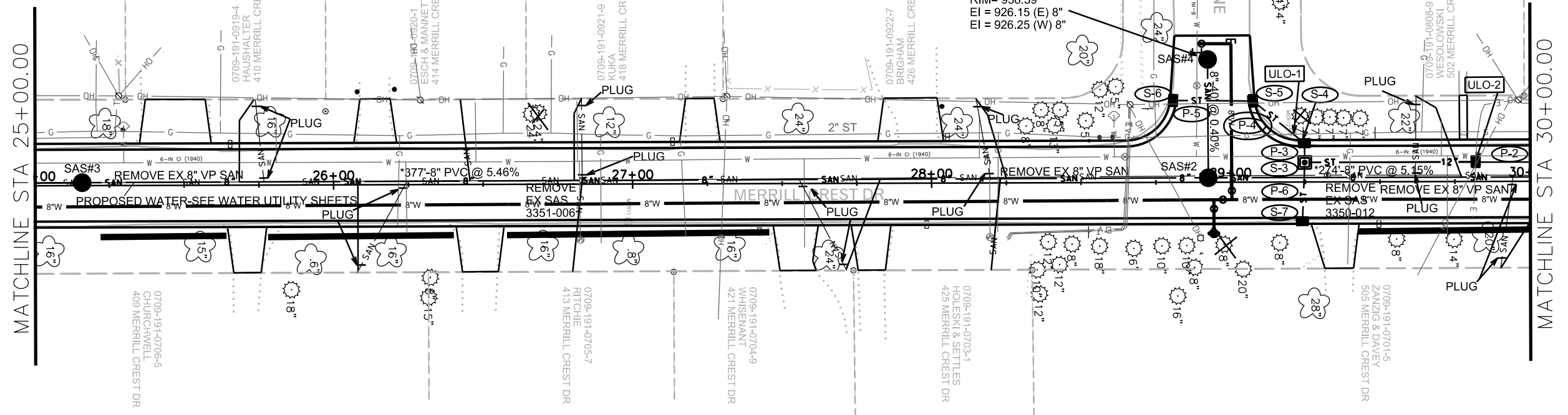
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SAS#4  
STA 28' MC+92.48 LT-41.00'  
RIM= 938.59  
EI = 926.15 (E) 8"  
EI = 926.25 (W) 8"



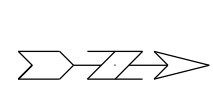
\* PIPE SHALL CONFORM  
TO SPECIFICATIONS OF  
ASTM D 3034 SDR-26

PLOT SCALE:

PLOT NAME:

REV. DATE:

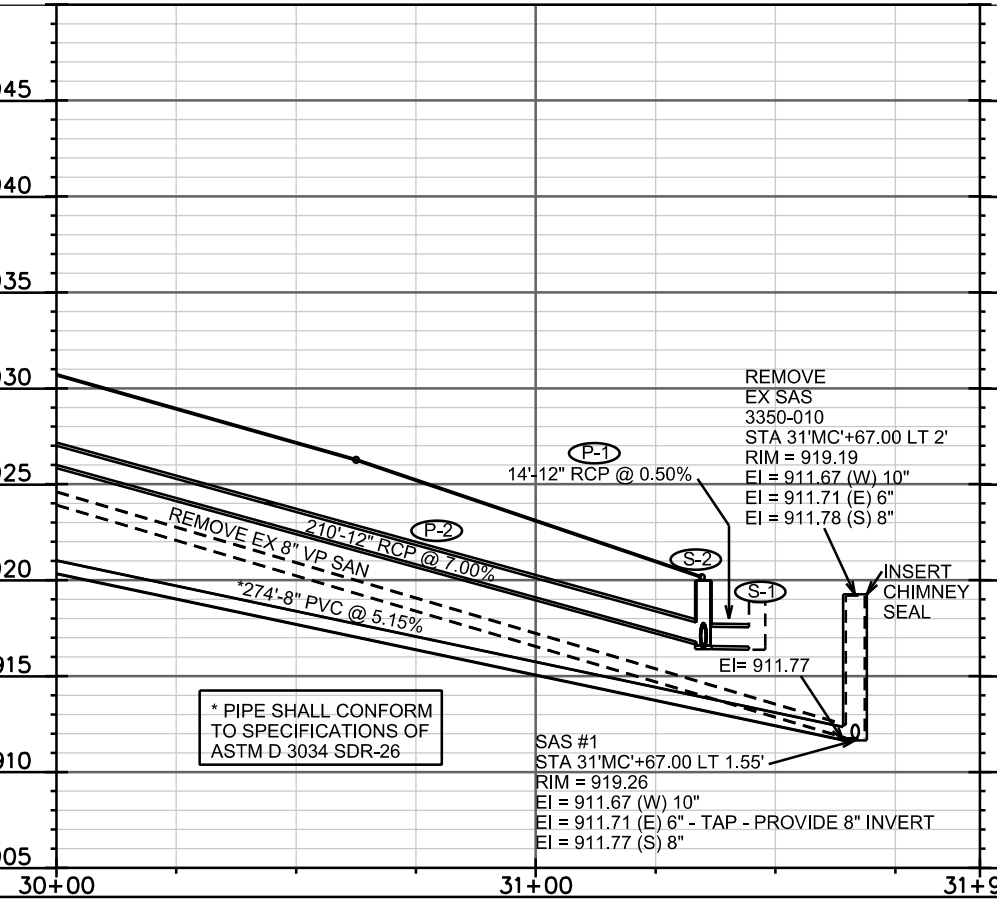
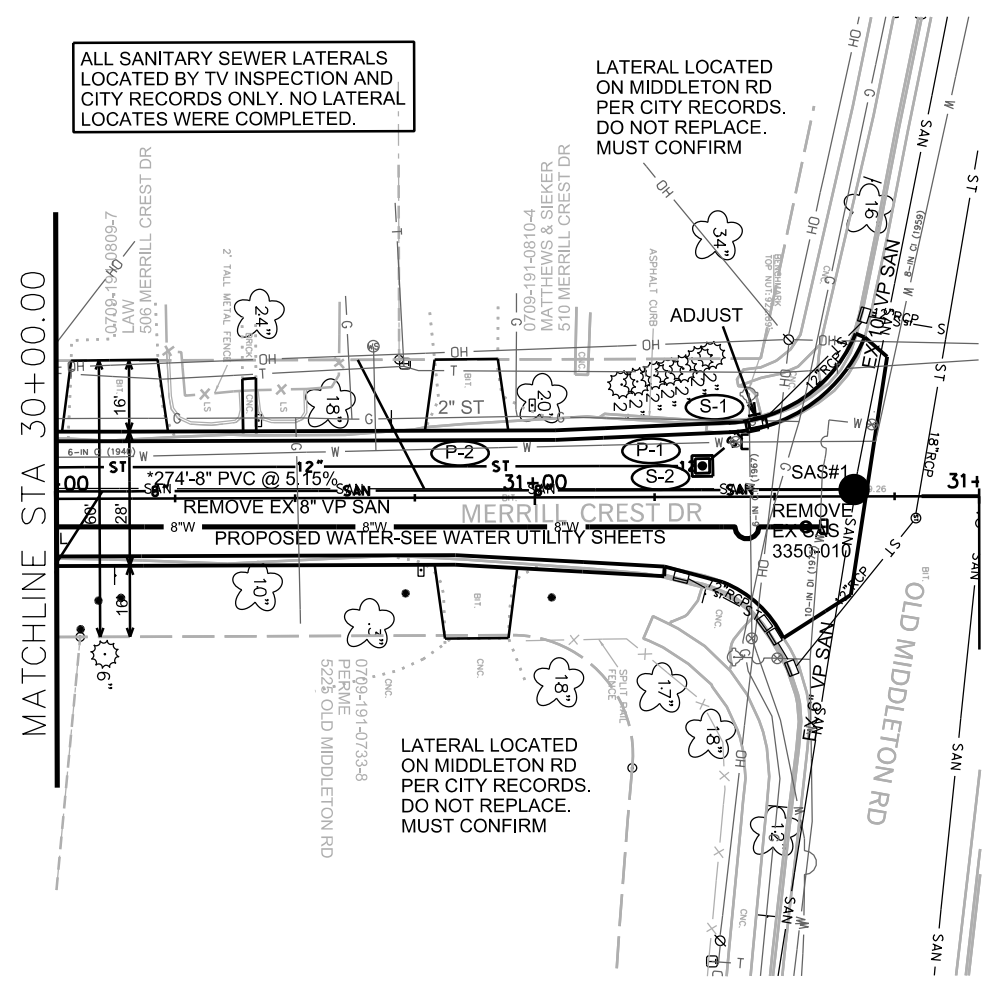
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LATERAL LOCATED  
ON MIDDLETON RD  
PER CITY RECORDS.  
DO NOT REPLACE.  
MUST CONFIRM

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ASTM D 3034 SDR-26

SAS #1  
STA 31+MC+67.00 LT 1.55'  
RIM = 919.26  
EI = 911.67 (W) 10"  
EI = 911.71 (E) 6" - TAP - PROVIDE 8" INVERT  
EI = 911.77 (S) 8"

REMOVE  
EX SAS  
3350-010  
STA 31+MC+67.00 LT 2'  
RIM = 919.19  
EI = 911.67 (W) 10"  
EI = 911.71 (E) 6"  
EI = 911.78 (S) 8"

INSERT  
CHIMNEY  
SEAL

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# STORM SEWER SCHEDULE

## ALIGNMENT CODES:

'MC' =MERRIL CREST DRIVE

\* REVISED 6/25/13 EEA

MERRIL CREST DRIVE  
PROJECT NO. 53W1478

SHEET NO.  
U-5

STORM SEWER SCHEDULE

CITY OF MADISON

### STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	31'MC'+46.00	LT-16.00	STM TAP	919.02	916.52	2.50	EX IN 3350-030; ADJUST
S-2	31'MC'+35.00	LT-6.50	3X3 SAS	919.97	916.59	3.38	W/ R-1550-0054
* S-3	29'MC'+24.46	LT-6.50	3X3 SAS	936.26	<b>931.29</b>	<b>4.97</b>	W/ R-1550-0054
S-4	29'MC'+24.46	LT-13.56	H INLET	936.60	933.00	3.60	FP; W/ R-3067-7004-V
S-5	29'MC'+07.96	LT-27.56	H INLET	938.35	934.75	3.60	FP; W/ R-3067-7004-V
S-6	28'MC'+79.96	LT-27.56	H INLET	939.88	936.28	3.60	W/ R-3067-7004-V
S-7	29'MC'+24.00	RT-13.50	H INLET	936.99	933.19	3.80	W/ R-3067-7004-V

### PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-2	14	916.52	916.59	0.50%	12"	RCP	(1)
* P-2	S-2	S-3	210	916.59	<b>931.29</b>	7.00%	12"	RCP	-
P-3	S-3	S-4	6	932.46	933.00	9.00%	12"	RCP	-
P-4	S-4	S-5	22	933.00	934.75	7.95%	12"	STORM	-
P-5	S-5	S-6	27	934.75	936.28	5.67%	12"	RCP	-
P-6	S-3	S-7	20	932.46	933.19	3.65%	12"	RCP	-

## ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1	29'MC'+21.00	LT-16.00	GAS	<b>ULO DELETED, GAS RELOCATED</b>
* ULO-2	29'MC'+82.00	LT-6.50	ELEC	<b>BOTTOM 4" ELEC CONDUIT= 928.72; MOVED STORM TO GO UNDER</b>

### SPECIFIC NOTES

(1) TAP EXISTING IN 3350-030

### 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

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

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

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

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

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

-ALL STRUCTURES CALLED OUT AS FIELD Poured SHALL BE FIELD Poured. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD Poured) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

# SANITARY SCHEDULE

## ALIGNMENT CODES:

'MC' =MERRIL CREST DRIVE

MERRIL CREST DRIVE  
PROJECT NO. 53W1478

SHEET NO.  
U-6

SANITARY SEWER SCHEDULE CITY OF MADISON

### PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	31'MC'+67.00	LT-1.55	919.26	911.67	7.59	INSERT CHIMNEY SEAL
SAS#2	28'MC'+92.46	LT-2.00	938.95	925.89	13.06	CONSTRUCT OUTSIDE DROP
SAS#3	25'MC'+16.00	LT-1.00	961.57	951.57	10.00	-
SAS#4	28'MC'+92.46	LT-41.00	938.59	926.15	12.44	-

### PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES:
SAS#1	SAS#2	911.77	925.89	274	5.15%	8"	SDR-26	-
SAS#2	SAS#3	931.00	951.57	377	5.46%	8"	SDR-26	-
SAS#3	EX 3351-018	951.67	962.88	400	2.80%	8"	SDR-35	-
SAS#2	SAS#4	925.99	926.15	40	0.40%	8"	SDR-35	-

### REMOVE SANITARY STRUCTURES

STRUC.	STATION	LOCATION (OFFSET)	NOTES
3351-005	23'MC'+83.00	CL	-
3351-006	26'MC'+82.00	LT-1.50	-
3350-012	29'MC'+32.00	LT-2.00	-
3350-010	31'MC'+67.00	LT-2.00	-

### SANITARY SEWER PIPE REMOVAL

REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
3351-005	3351-006	300	N	8"	VP	-
3351-006	3350-012	250	N	8"	VP	-
3350-012	3350-010	235	N	8"	VP	-

PLOT SCALE: ---

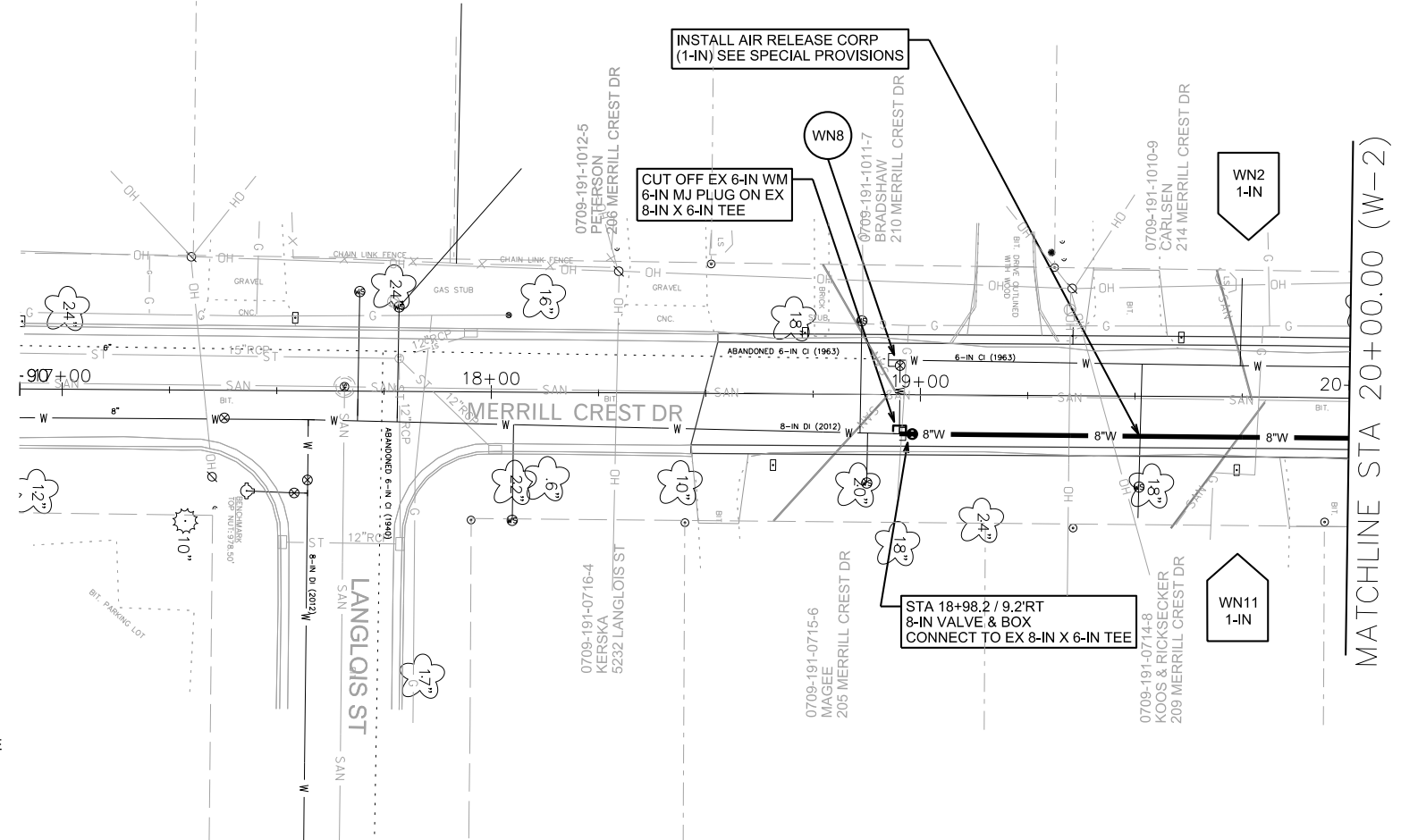
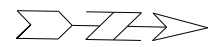
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REV. DATE: ---

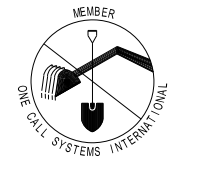


WATER PLAN AND PROFILE

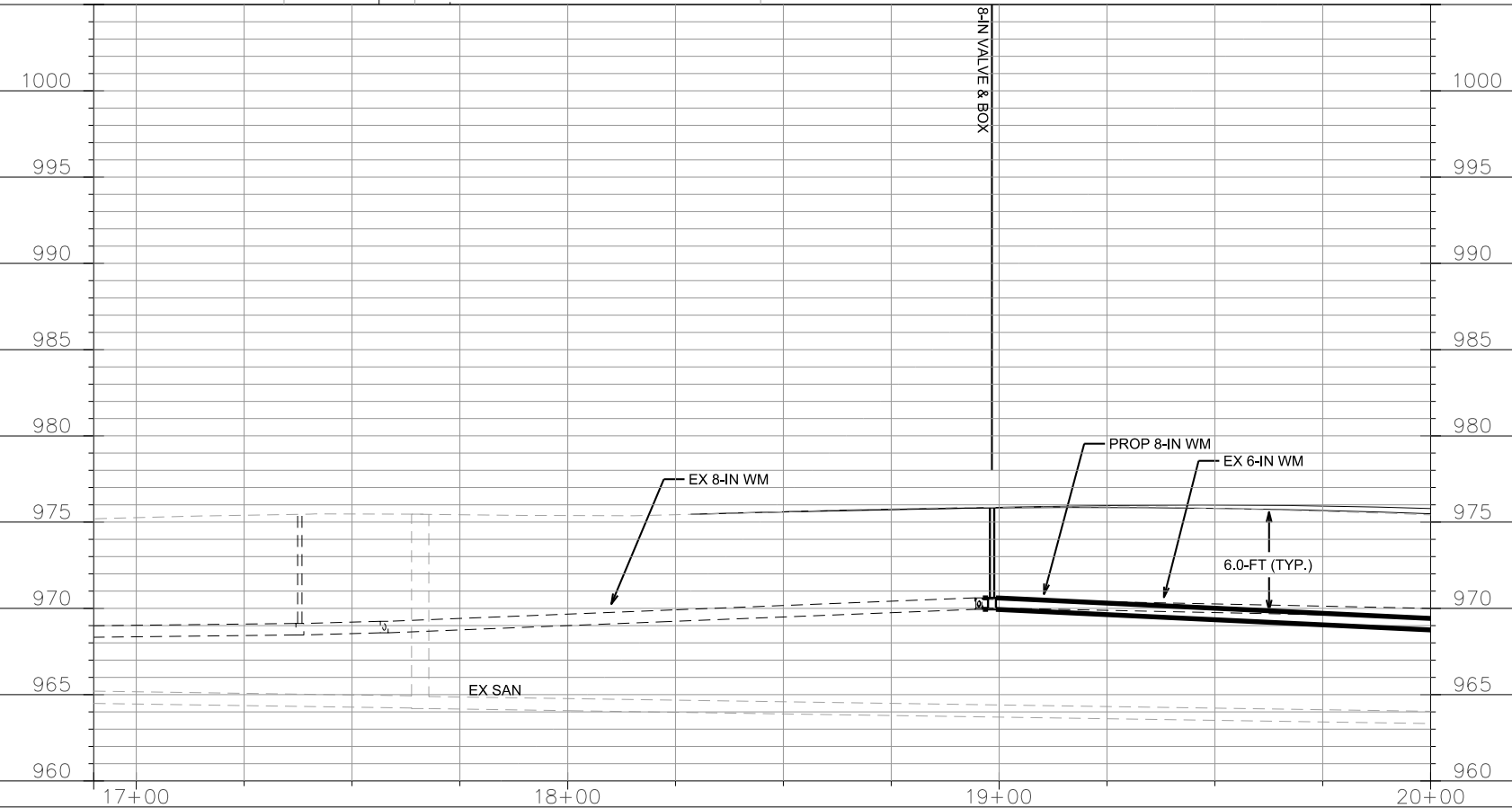
MERRILL CREST DR CITY OF MADISON  
PM: DENNIS CAWLEY DESIGNER: PEH



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
CALL DIGGERS HOTLINE TOLL FREE 811 OR 1-800-242-8511  
FAX-A-LOCATE 1-800-338-3860  
TDD (FOR HEARING IMPAIRED) 1-800-542-2289  
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



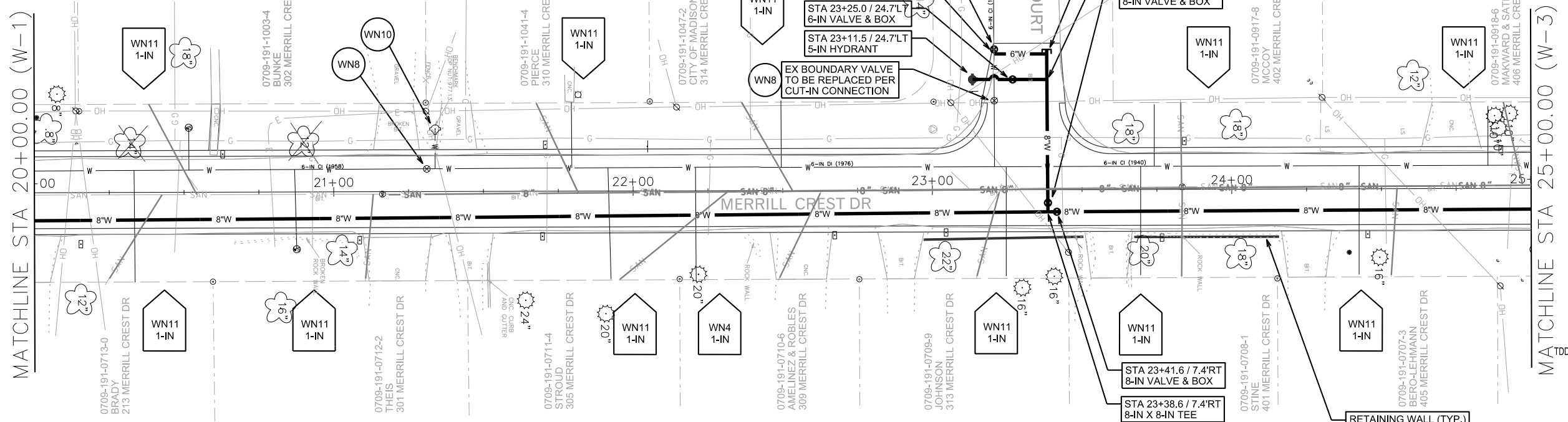
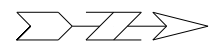
DISCLAIMER NOTE:  
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PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

MERRILL CREST DR CITY OF MADISON  
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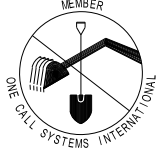


MATCHLINE STA 20+00.00 (W-1)

MATCHLINE STA 25+00.00 (W-3)

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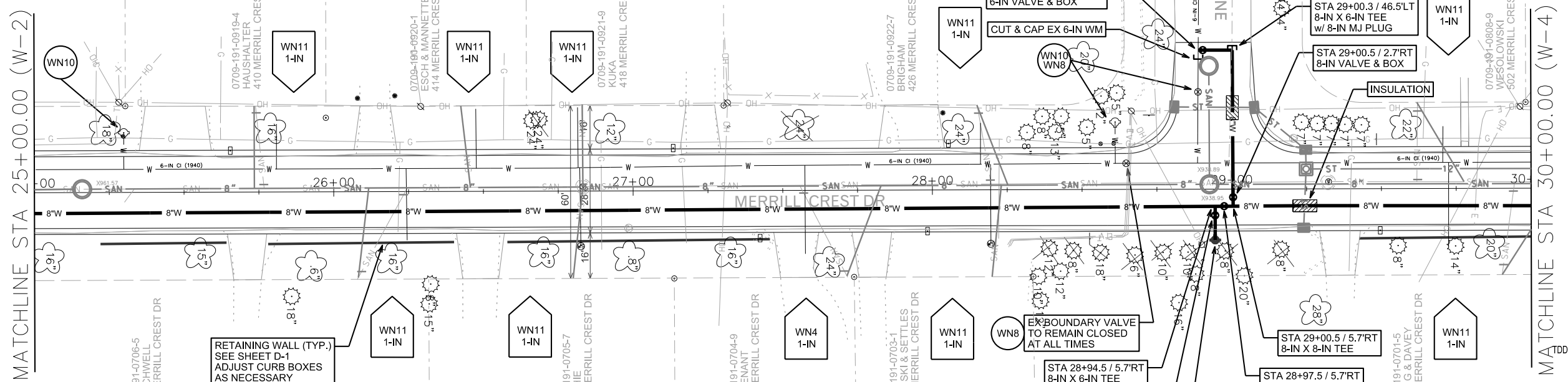
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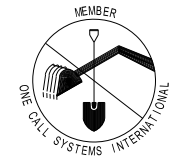
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

MERRILL CREST DR CITY OF MADISON  
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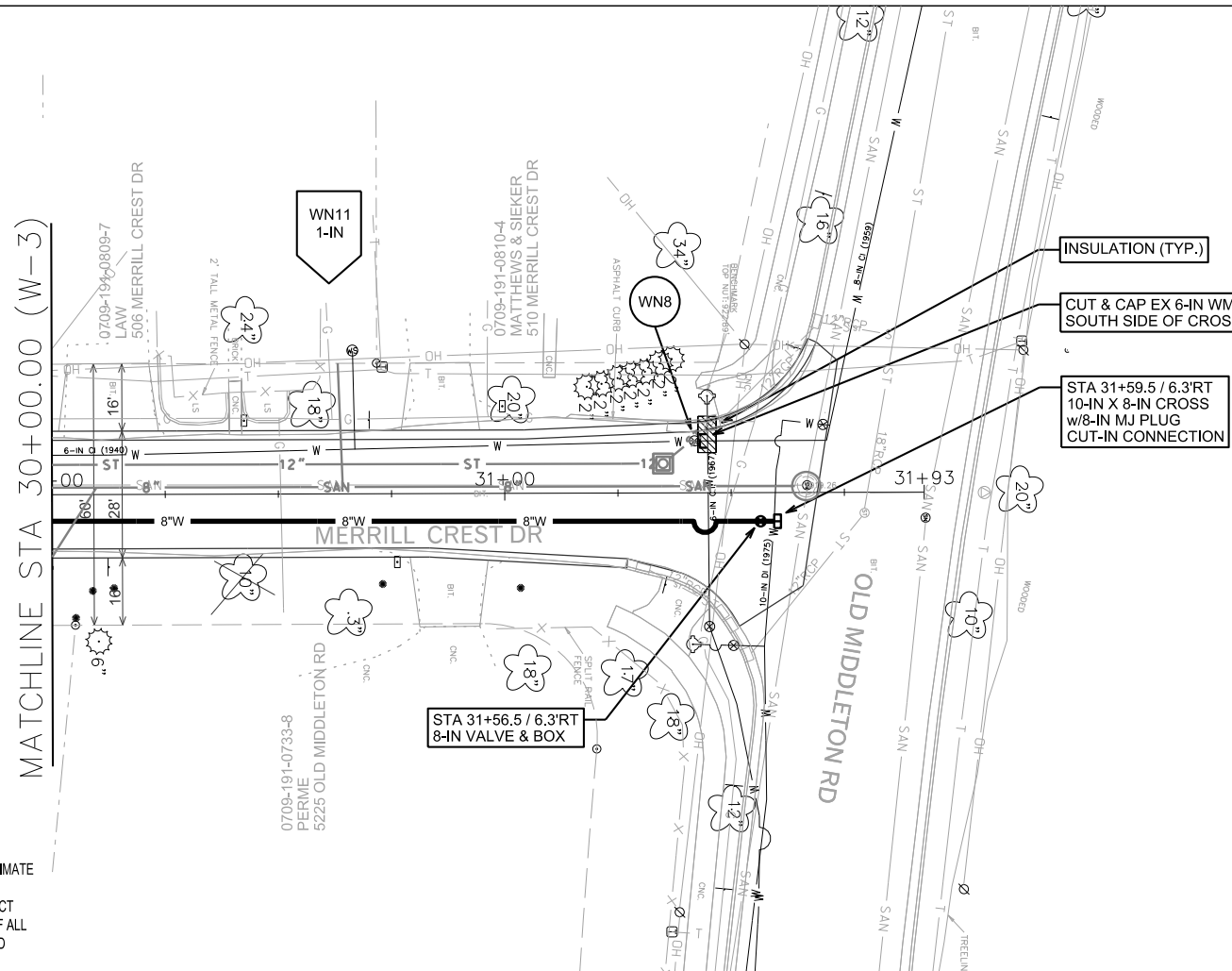
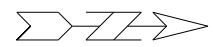


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PLOT SCALE: \_\_\_\_\_  
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

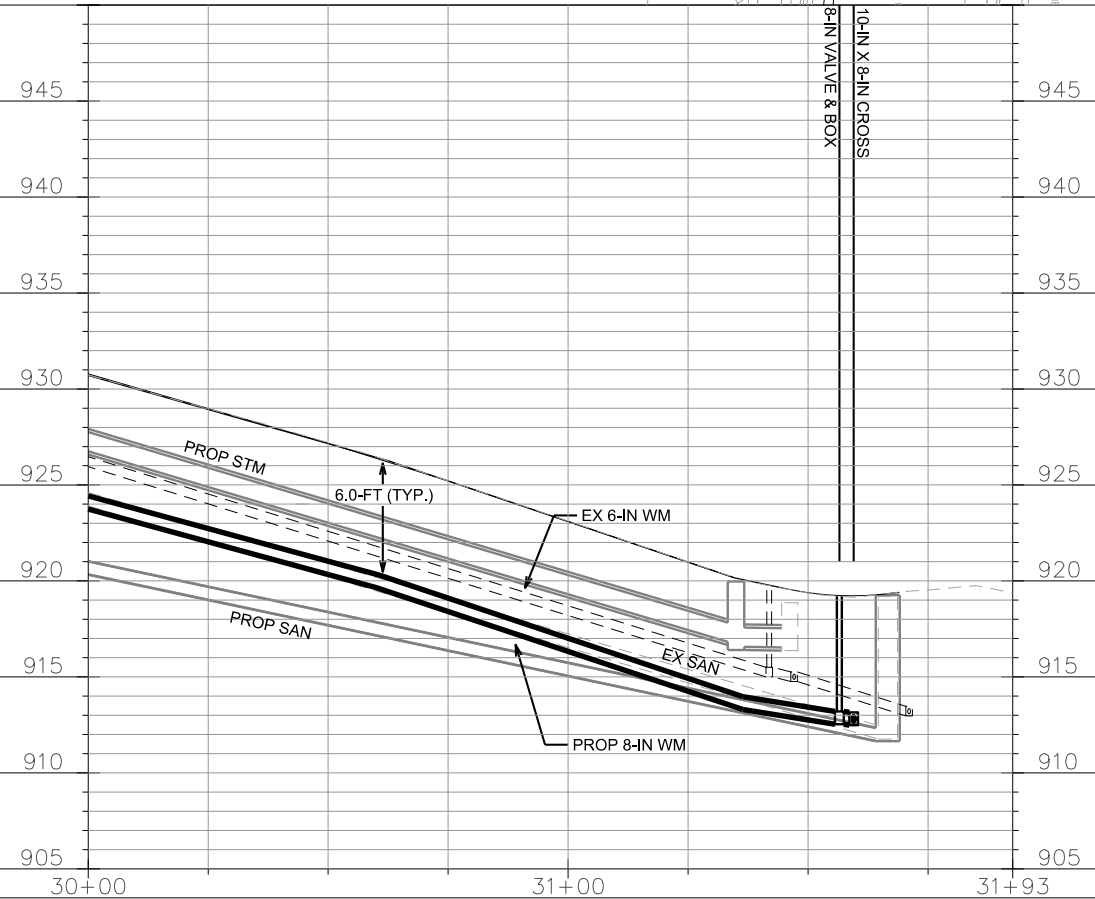
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PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**CONSTRUCTION NOTES:**

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. 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 (OR TO THE LARGER PARALLEL EXISTING 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 (OR TO THE LARGER PARALLEL EXISTING MAIN).
- WN5 - RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 - ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 - FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 - ABANDON THE VALVE BOX.
- WN9 - FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 - REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 - REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE

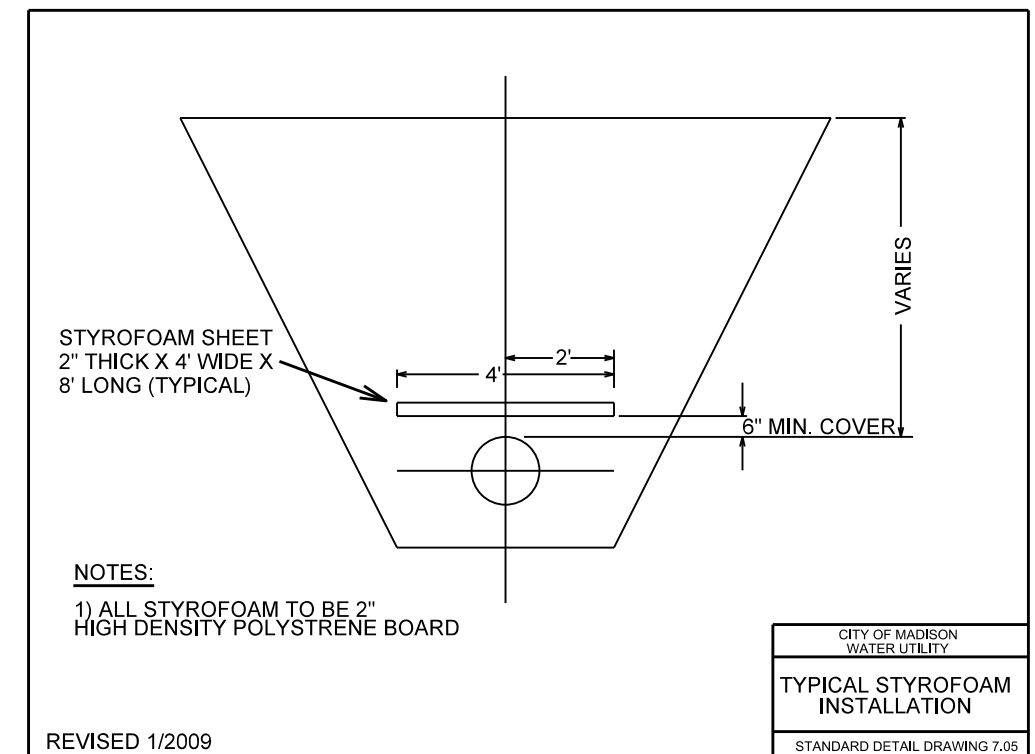
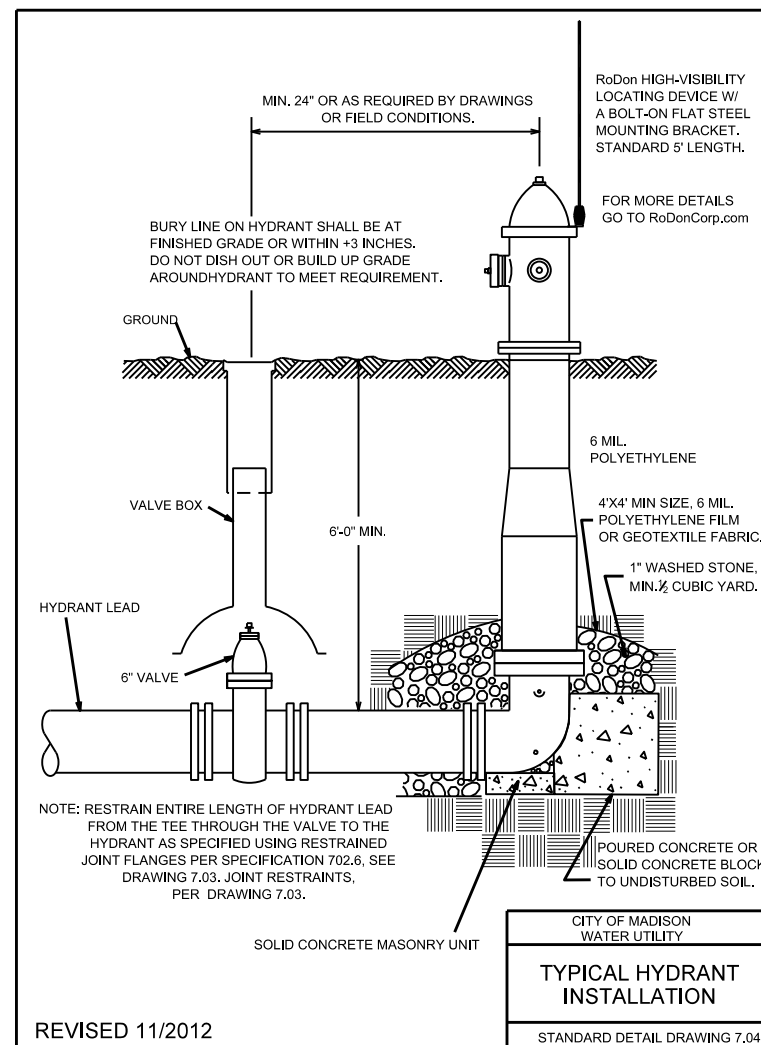
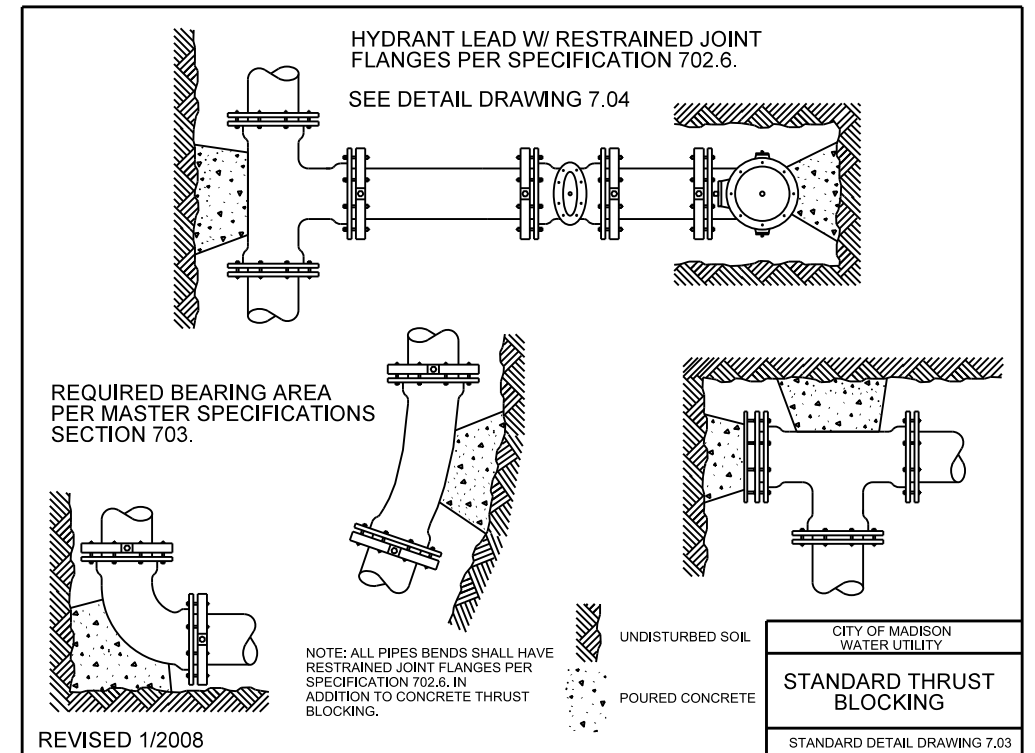
**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

- 80' - 6" PIPE
- 1380' - 8" PIPE
- 1640' - POLYWRAP
- 3 - 6" VALVE & BOX
- 6 - 8" VALVE & BOX
- 5 - 8"x6" TEE
- 2 - 8"x8" TEE
- 1 - 10"x8" CROSS
- 1 - 6" 90° BEND
- 3 - 6" MJ CAP
- 3 - 8" MJ PLUG
- 2 - 5" HYDRANT
- 32' - 2" STYROFOAM INSULATION

**MATERIALS SUPPLIED BY CITY:**

- 1 - 6" TAPPING VALVE
- 1 - 6"x6" TAP SLEEVE

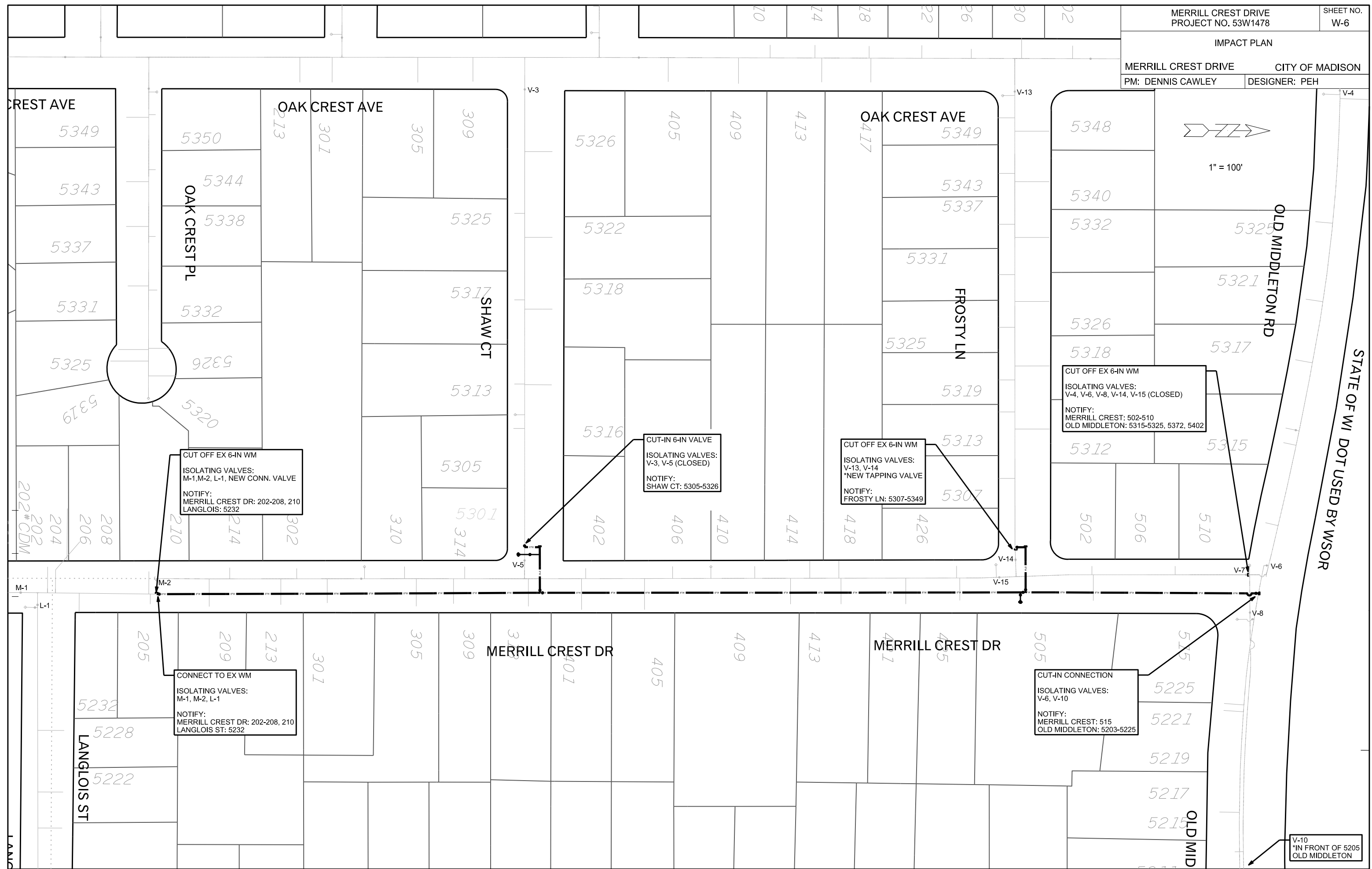


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

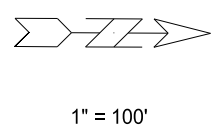


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CUT OFF EX 6-IN WM  
ISOLATING VALVES:  
M-1, M-2, L-1, NEW CONN. VALVE  
NOTIFY:  
MERRILL CREST DR: 202-208, 210  
LANGLOIS: 5232

CUT-IN 6-IN VALVE  
ISOLATING VALVES:  
V-3, V-5 (CLOSED)  
NOTIFY:  
SHAW CT: 5305-5326

CUT OFF EX 6-IN WM  
ISOLATING VALVES:  
V-13, V-14  
\*NEW TAPPING VALVE  
NOTIFY:  
FROSTY LN: 5307-5349

CUT OFF EX 6-IN WM  
ISOLATING VALVES:  
V-4, V-6, V-8, V-14, V-15 (CLOSED)  
NOTIFY:  
MERRILL CREST: 502-510  
OLD MIDDLETON: 5315-5325, 5372, 5402

CONNECT TO EX WM  
ISOLATING VALVES:  
M-1, M-2, L-1  
NOTIFY:  
MERRILL CREST DR: 202-208, 210  
LANGLOIS ST: 5232

CUT-IN CONNECTION  
ISOLATING VALVES:  
V-6, V-10  
NOTIFY:  
MERRILL CREST: 515  
OLD MIDDLETON: 5203-5225

V-10  
\*IN FRONT OF 5205  
OLD MIDDLETON

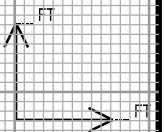
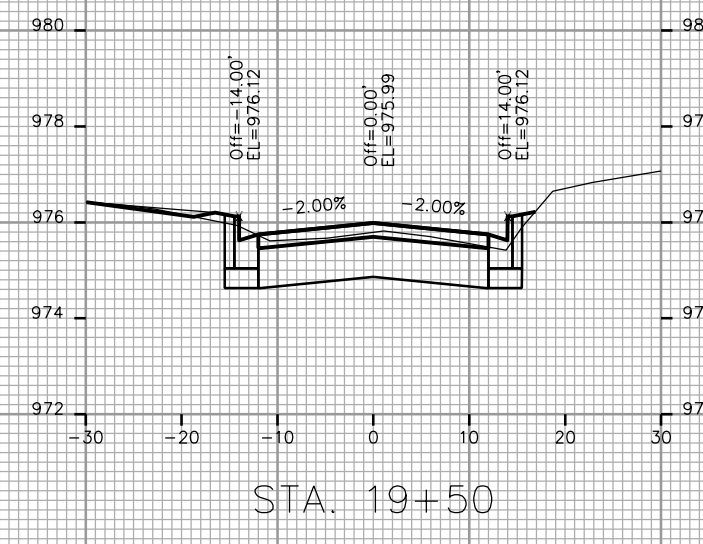
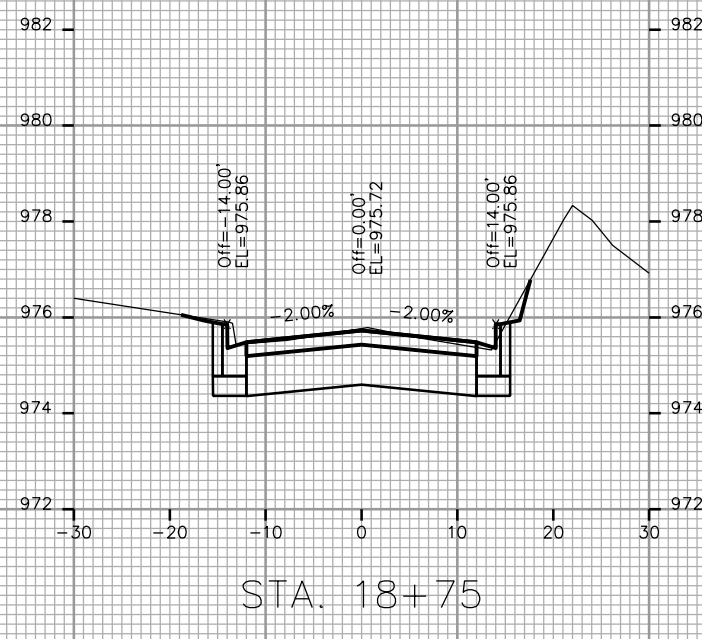
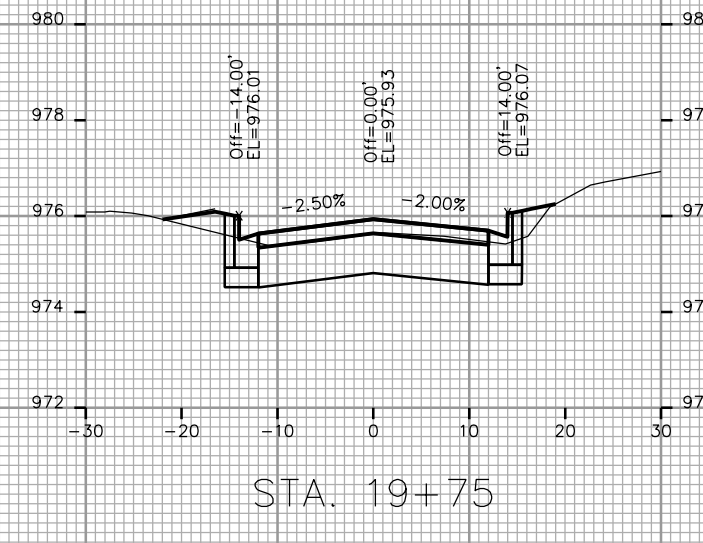
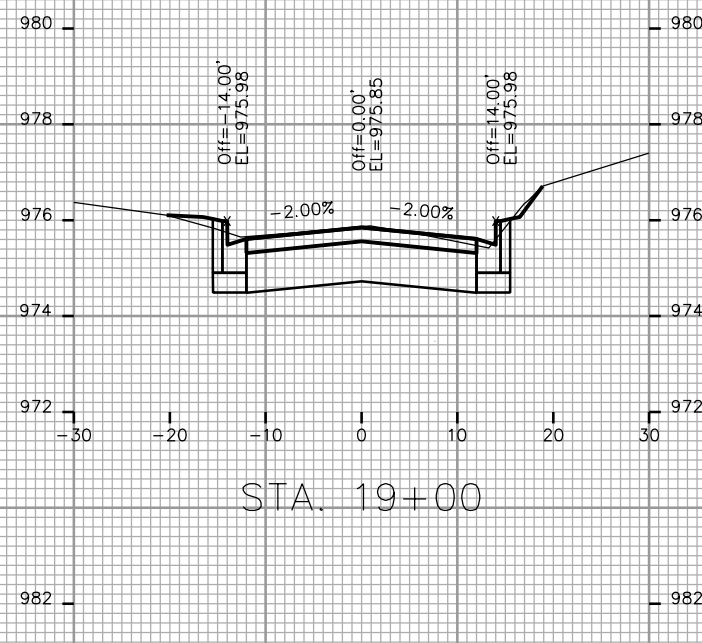
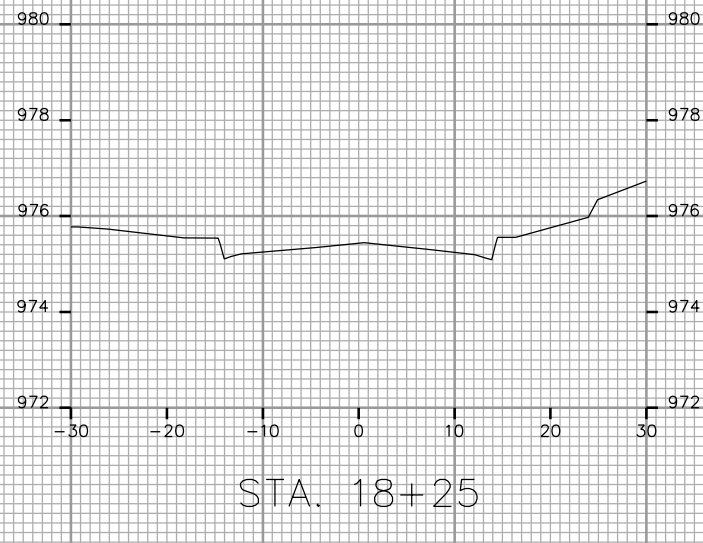
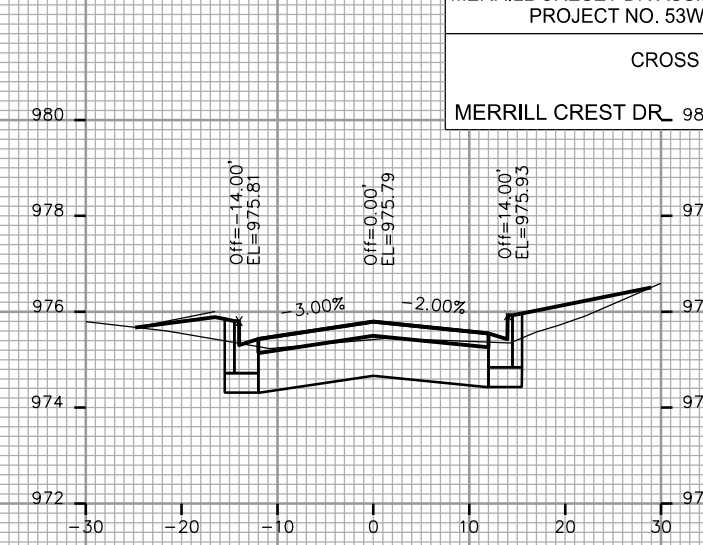
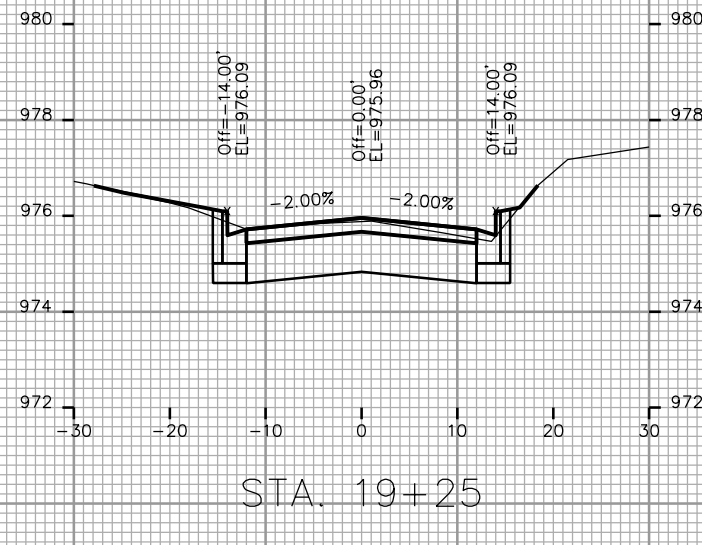
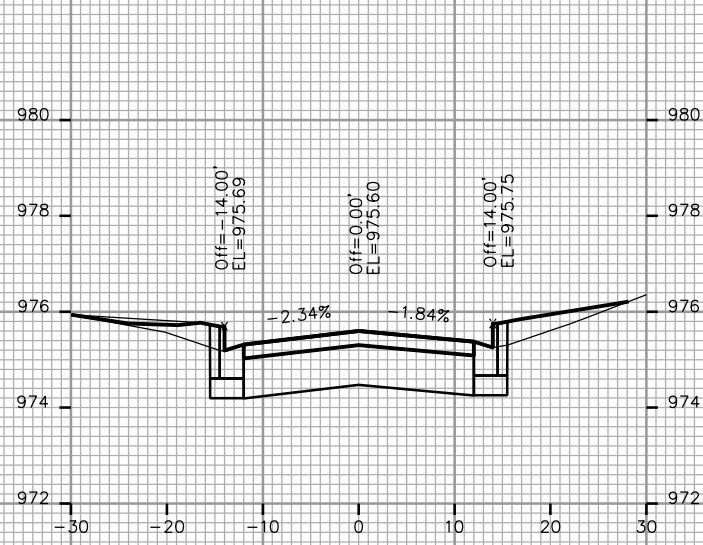
REV 5/11/13

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

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CROSS SECTIONS

MERRILL CREST DR

CITY OF MADISON

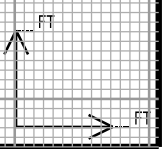
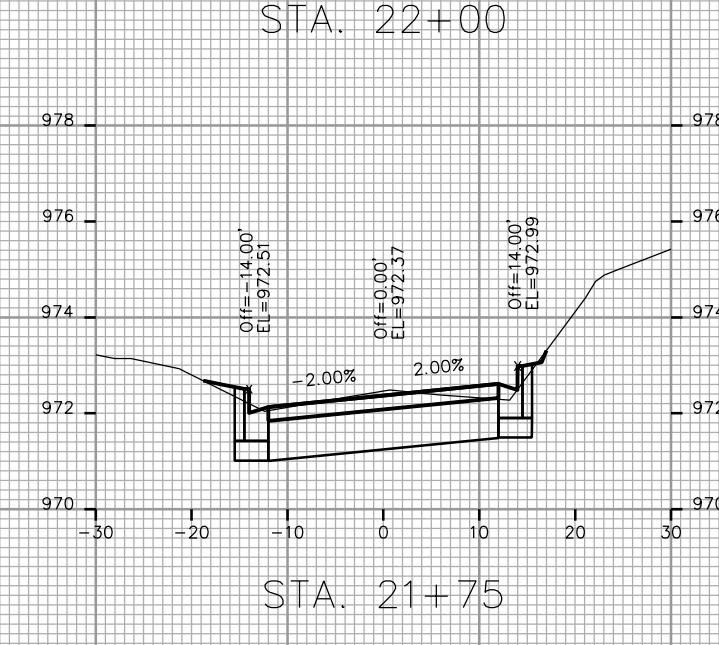
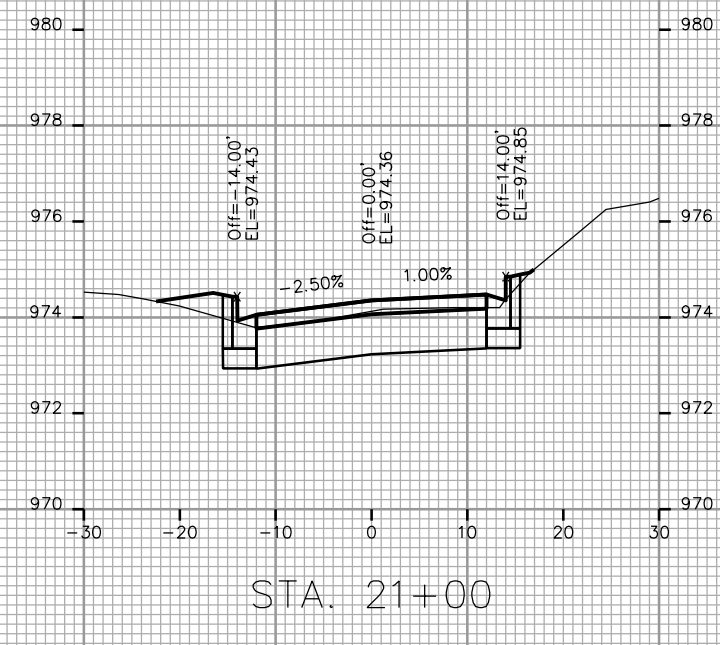
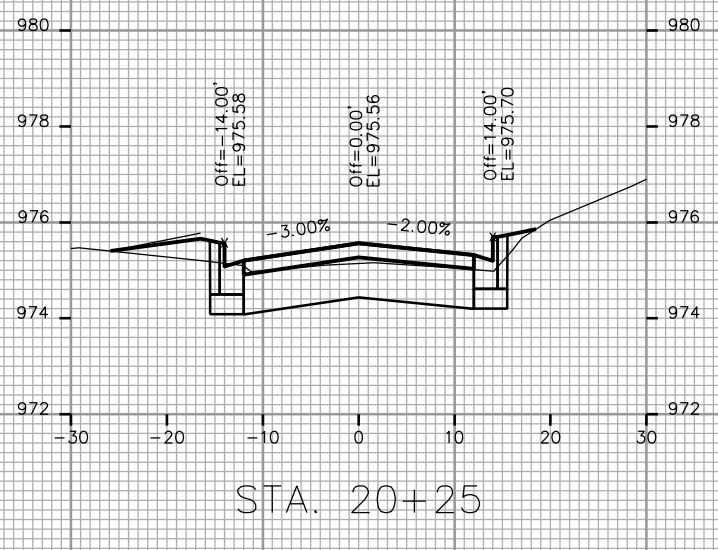
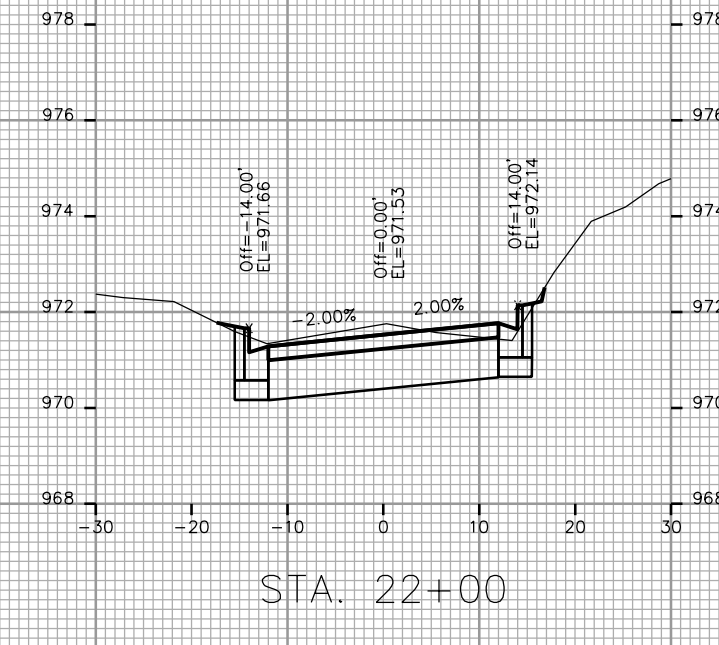
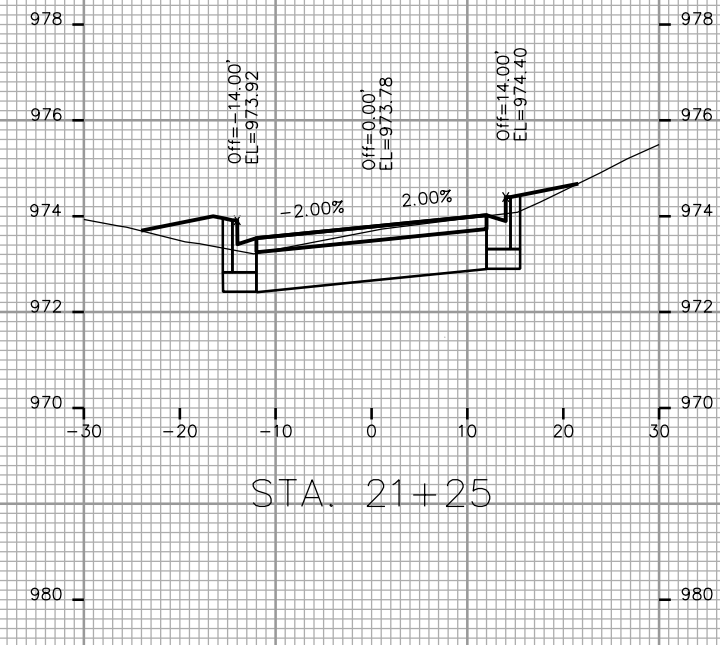
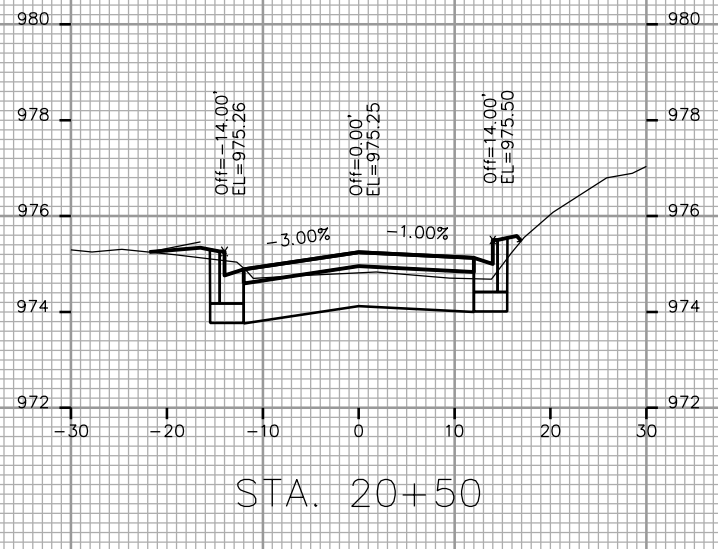
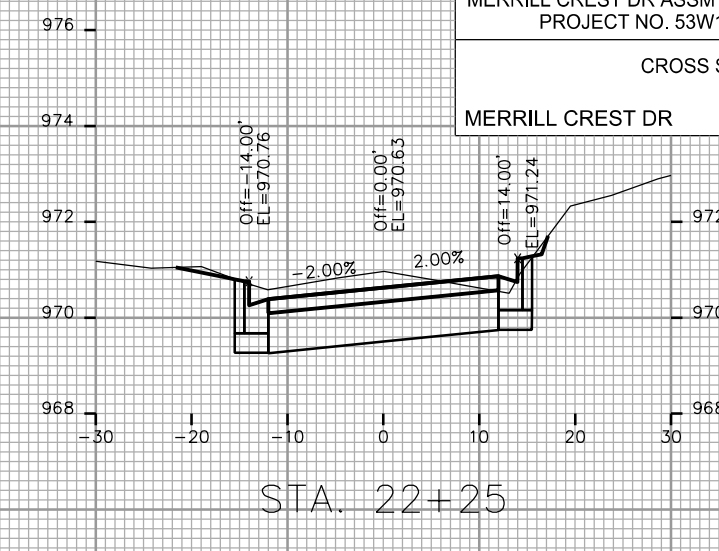
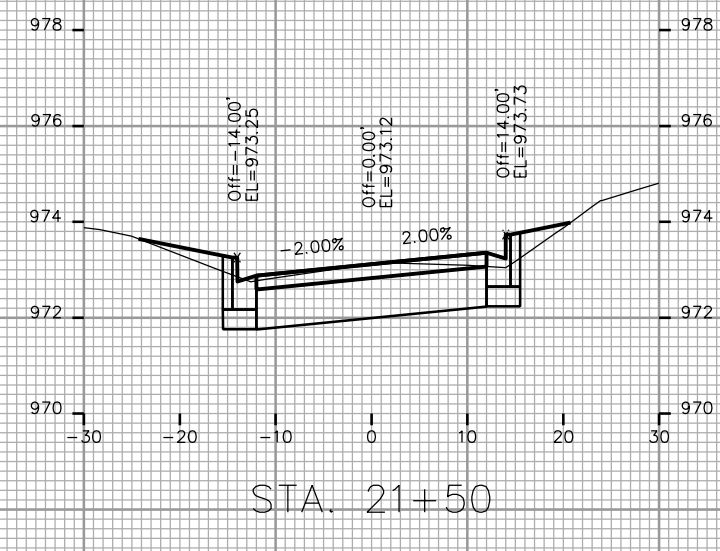
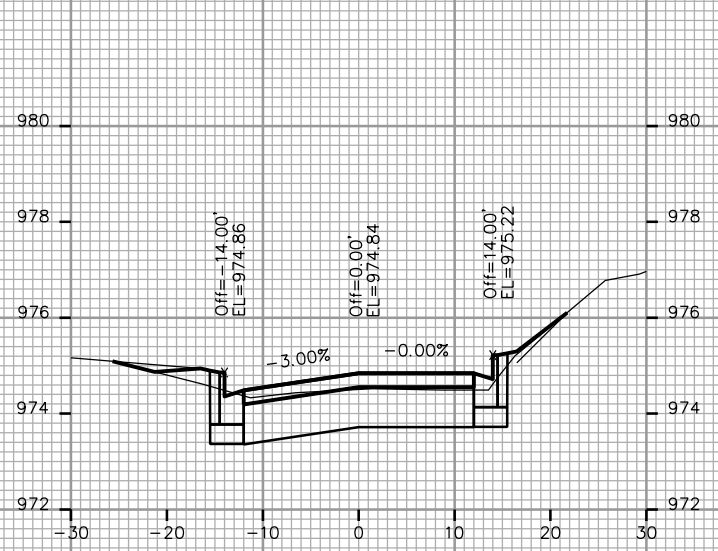
REV 6/11/13

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

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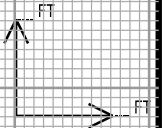
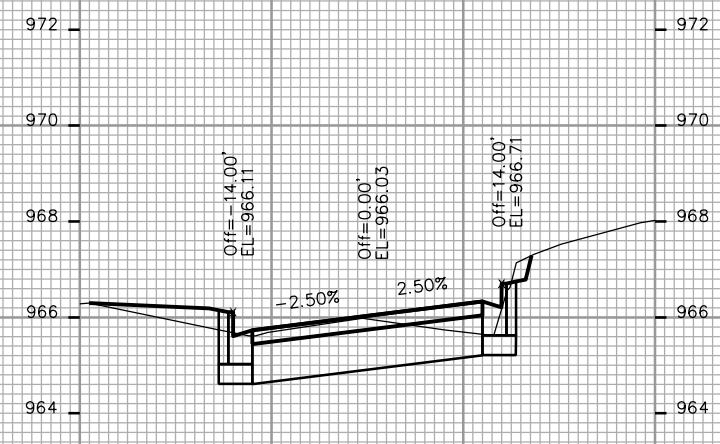
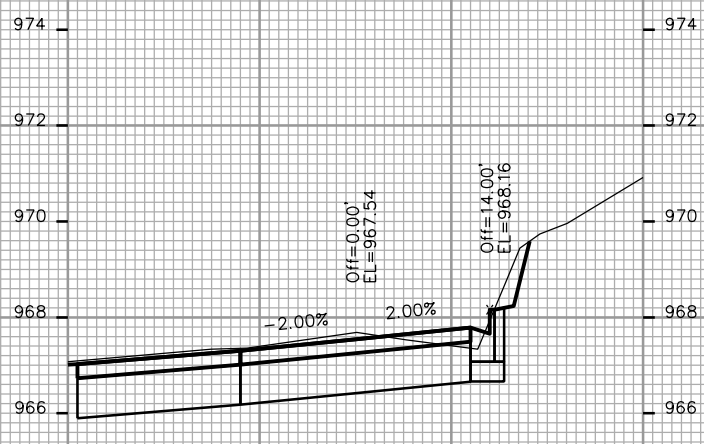
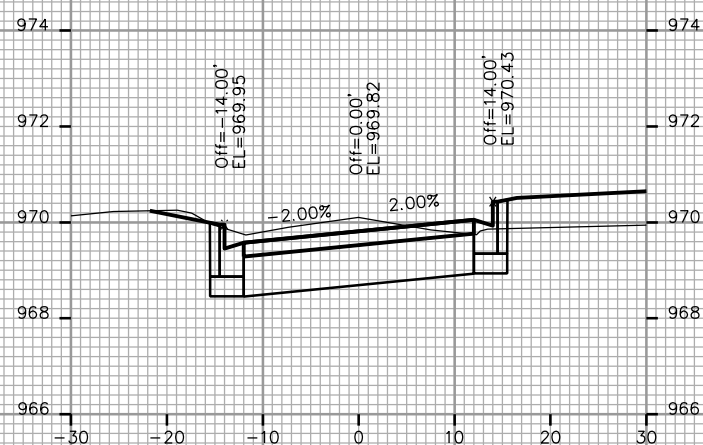
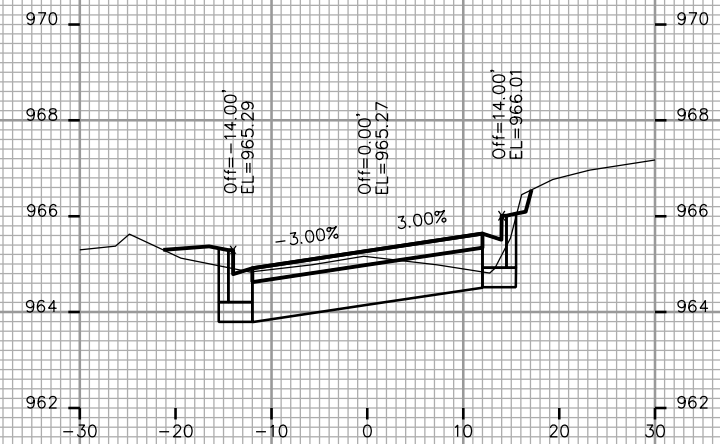
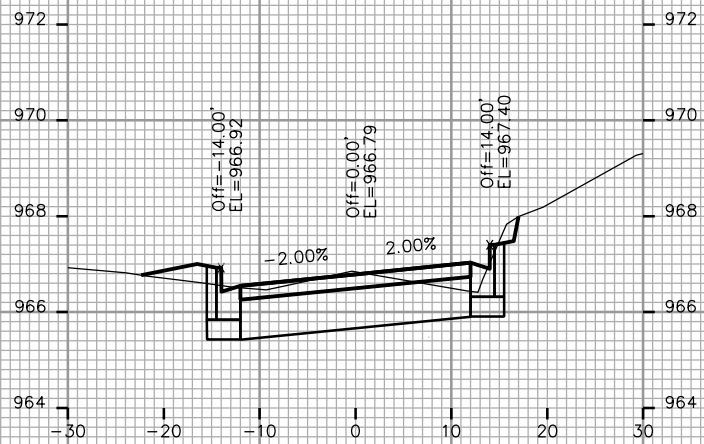
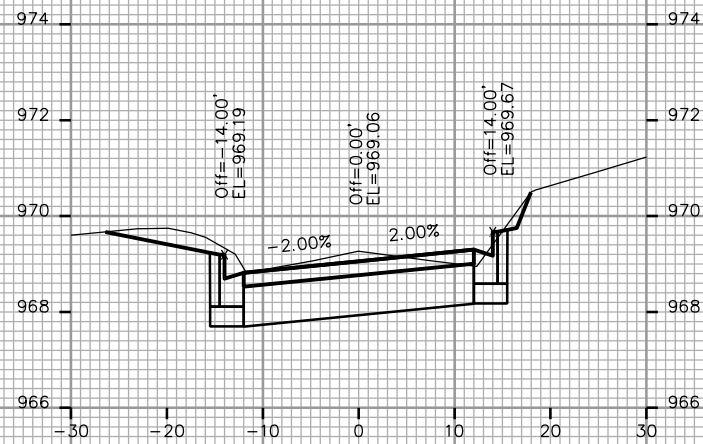
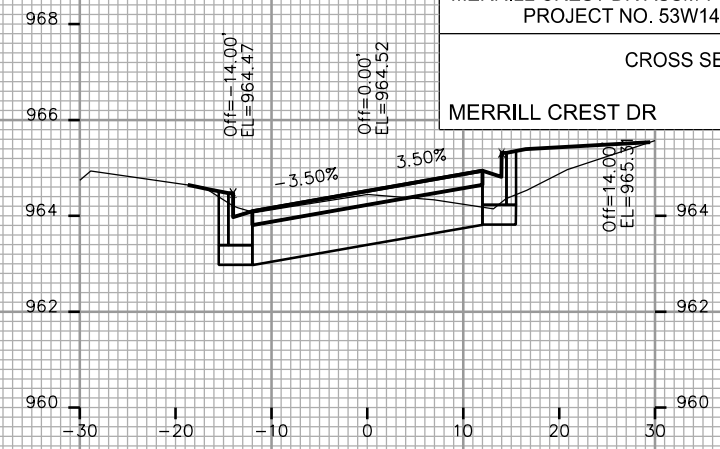
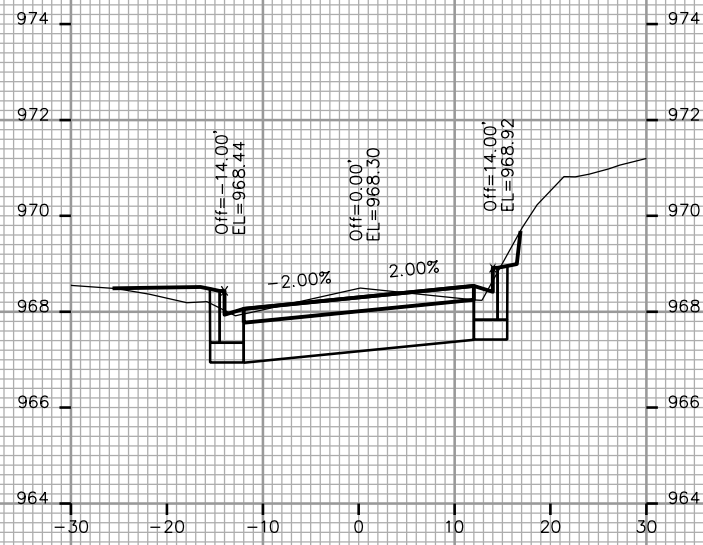
ORIGINATOR: CITY OF MADISON - STREETS DIVISION





CROSS SECTIONS  
MERRILL CREST DR  
CITY OF MADISON

REV 6/11/13



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MERRILL CREST DR CITY OF MADISON

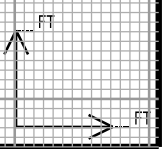
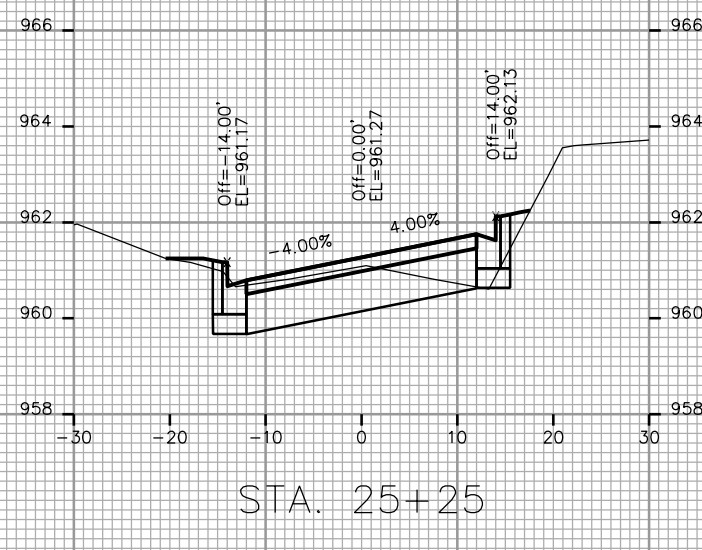
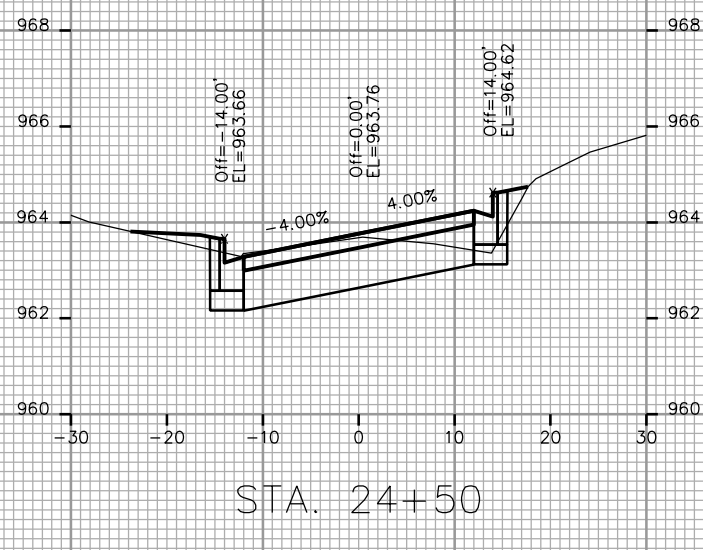
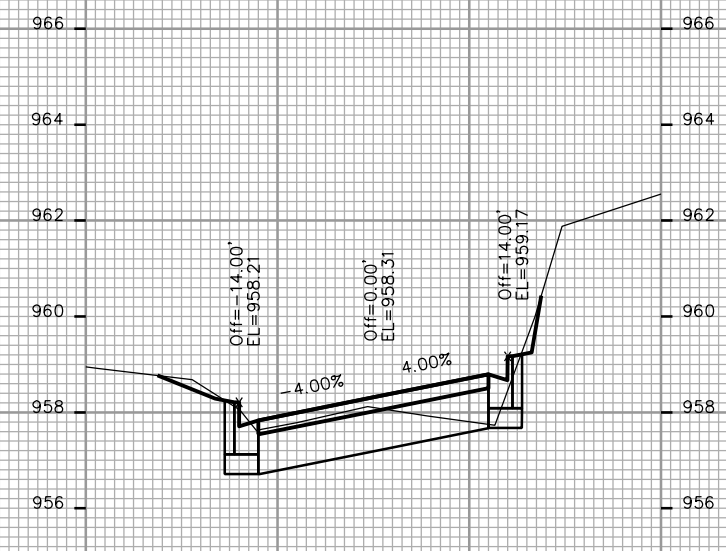
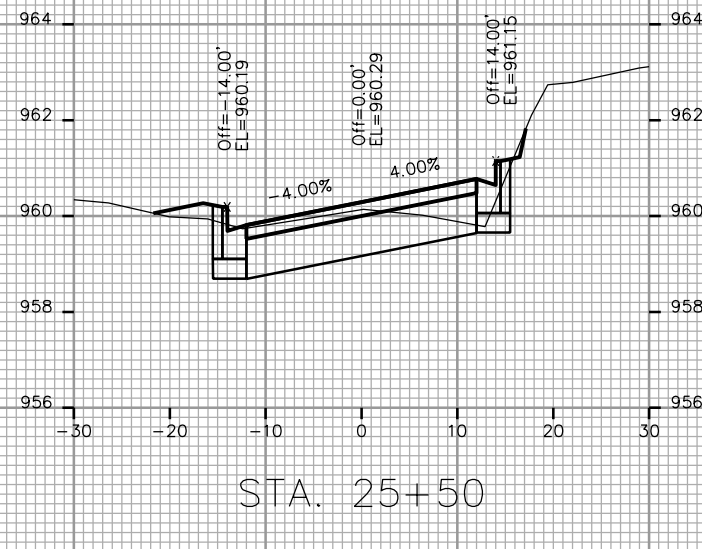
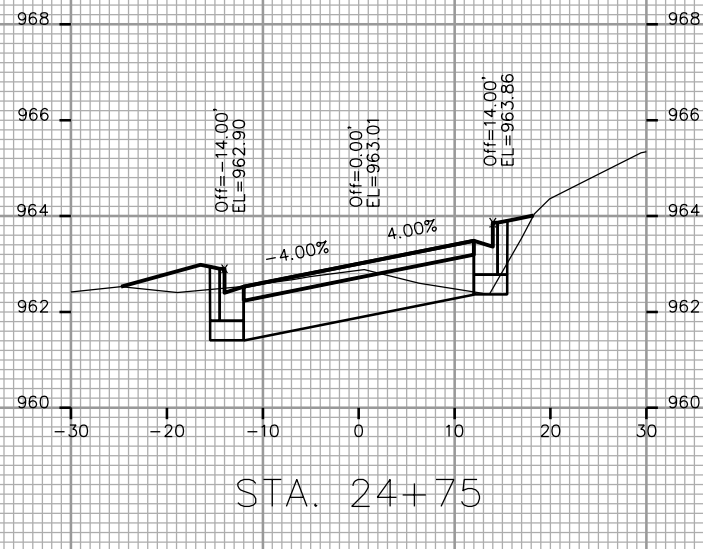
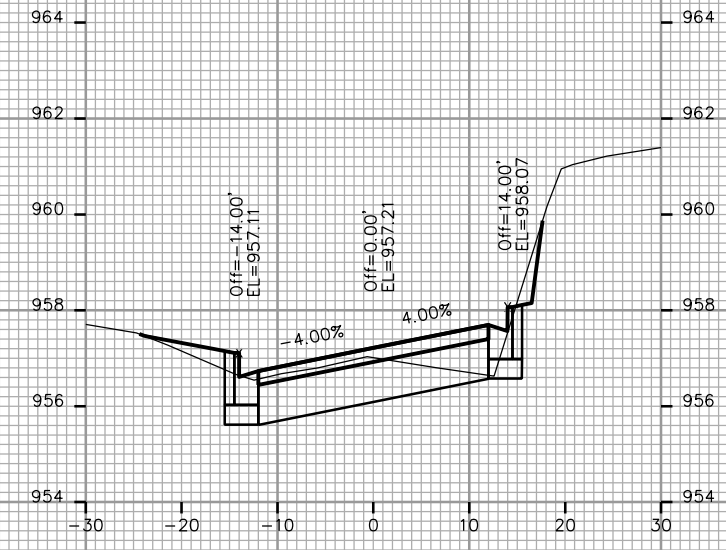
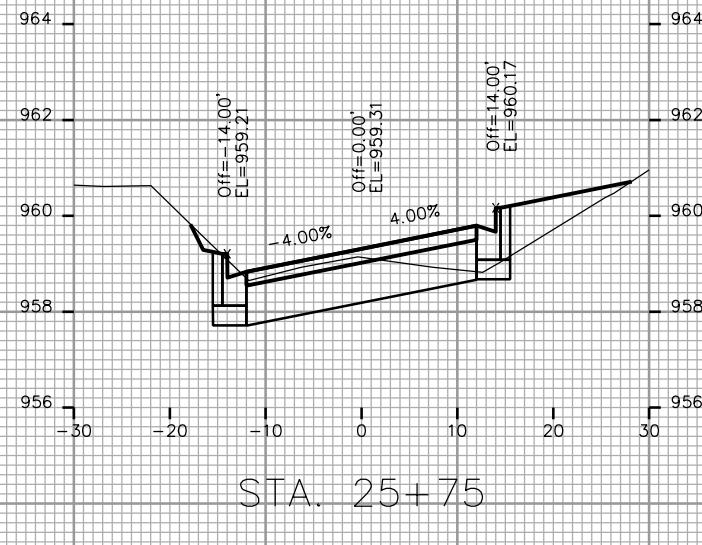
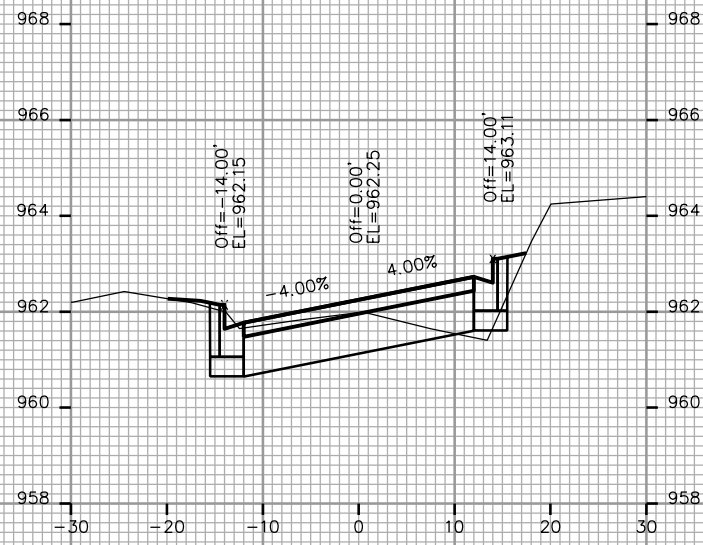
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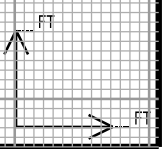
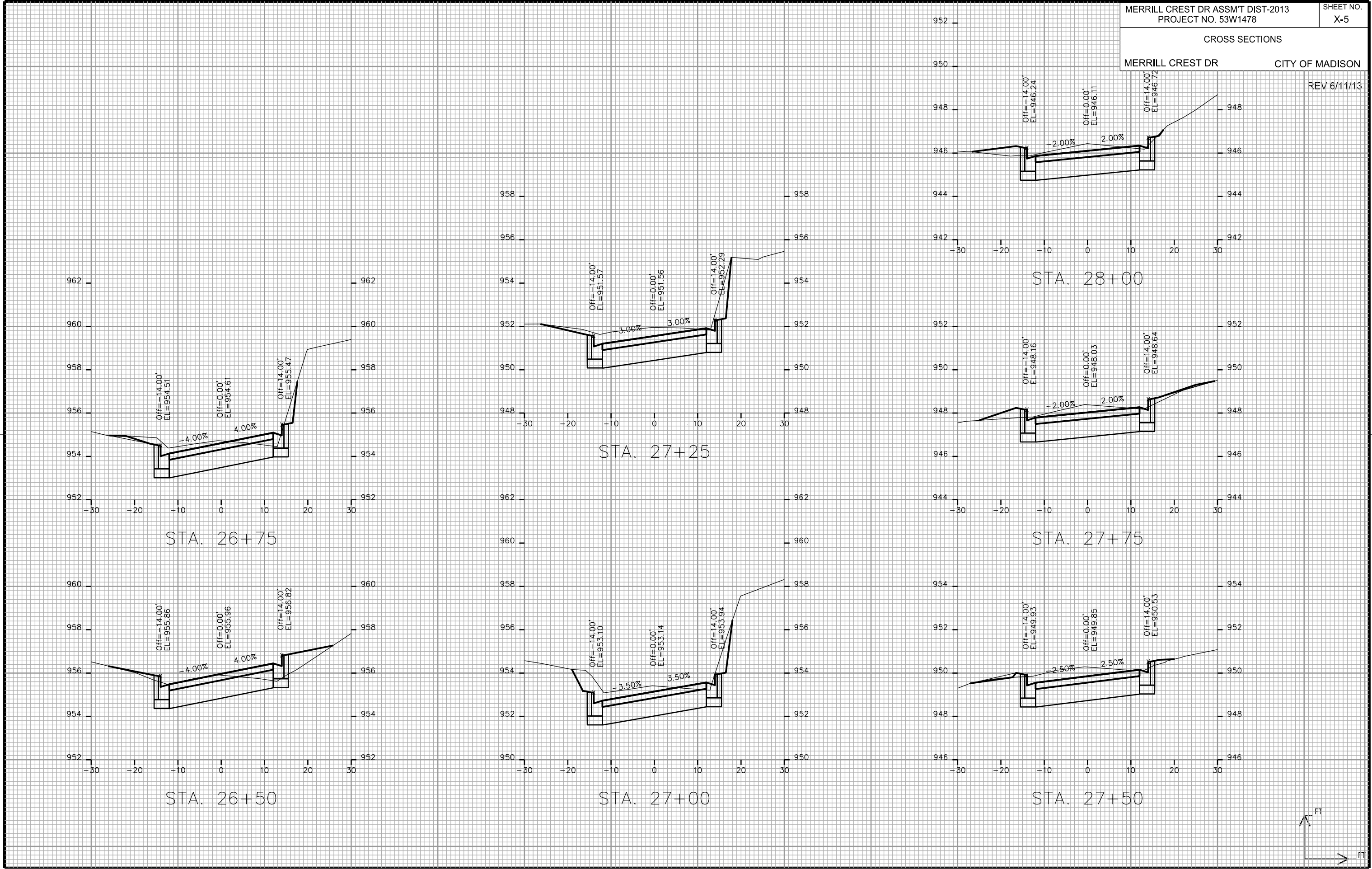
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CROSS SECTIONS

MERRILL CREST DR CITY OF MADISON

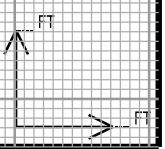
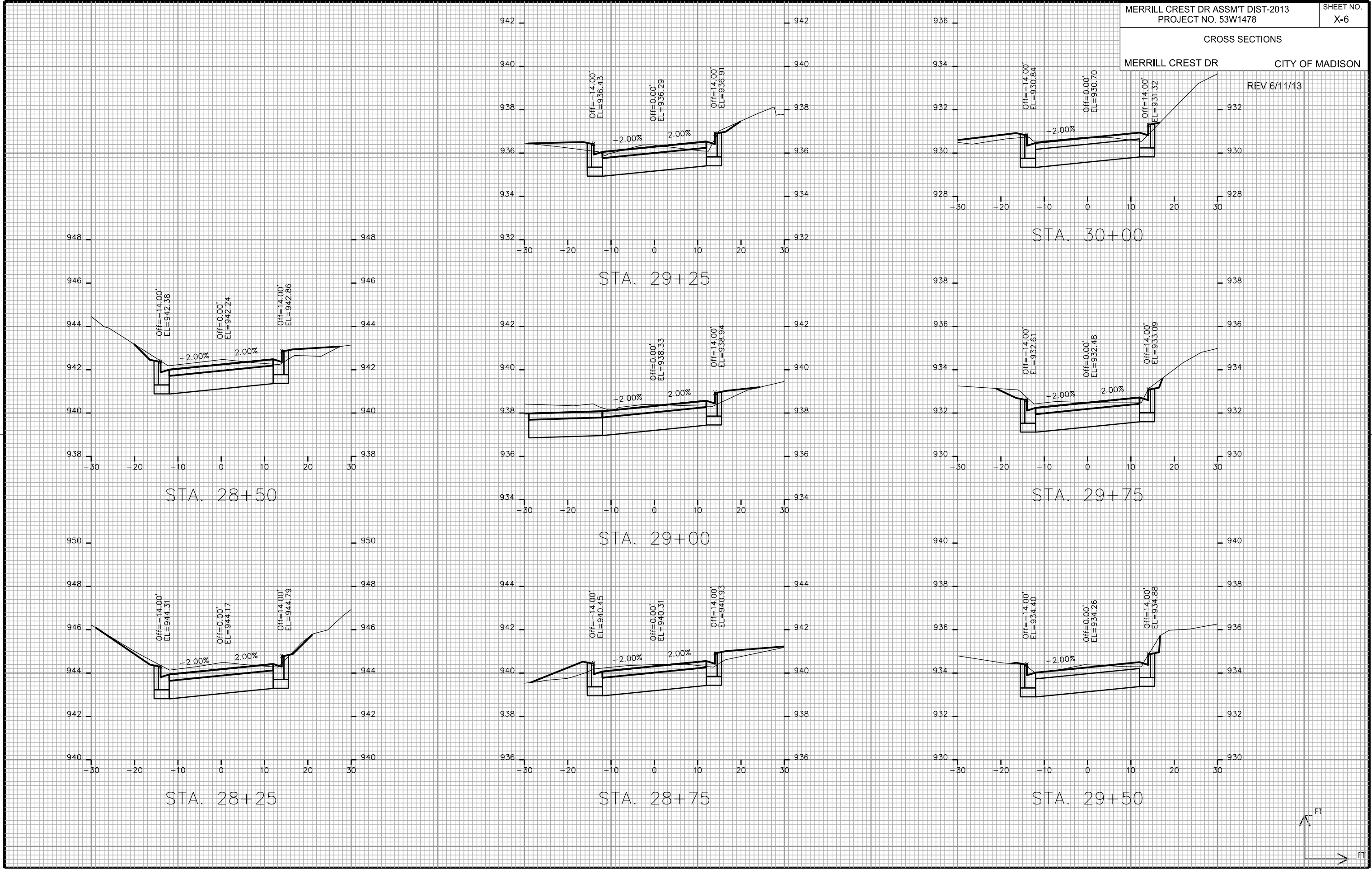
REV 6/11/13

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

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

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

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS  
MERRILL CREST DR CITY OF MADISON

REV 6/11/13

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

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