

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

WESTMORLAND BOULEVARD ASSESSMENT DISTRICT - 2018

CITY PROJECT NO. 11675

CONTRACT NO. 8058

PUBLIC IMPROVEMENT PROJECT APPROVED

NOVEMBER 21, 2017

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 12/14/17
City Engineer Date

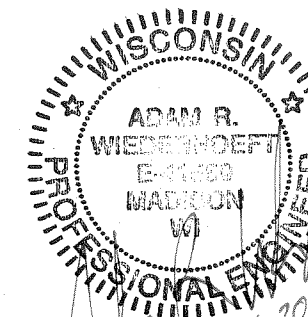
STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:



WATER MAIN
DESIGNED BY:



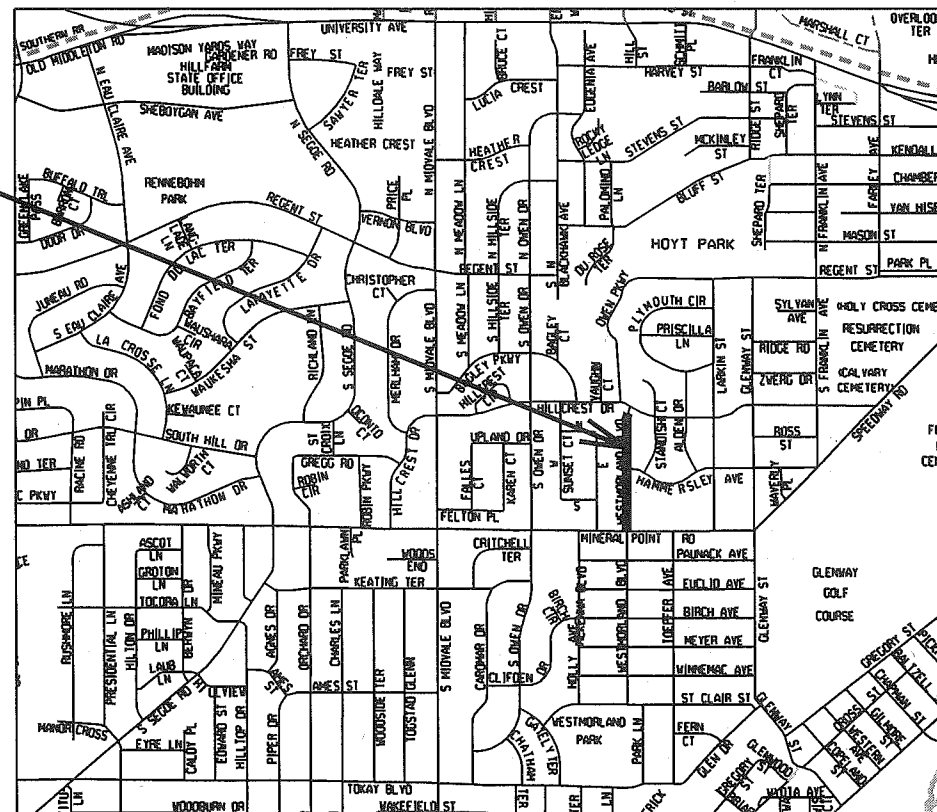
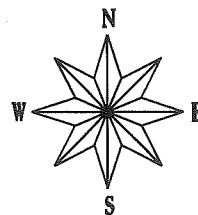
STORM SEWER
DESIGNED BY:



INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTION & ISLAND DETAILS
D1	EROSION CONTROL PLANS
EC1-EC3	STREET PLAN & PROFILES
P1-P4	SEWERS PLAN & PROFILES
U1-U4	SEWER SCHEDULES
U5-U7	WATER PLAN & PROFILES
W1-W4	EXISTING WATER SYSTEM IMPACT PLAN
W5	WATER DETAILS/NOTES/ESTIMATE OF MATERIALS
W6	CROSS SECTIONS
X1-X11	

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%.

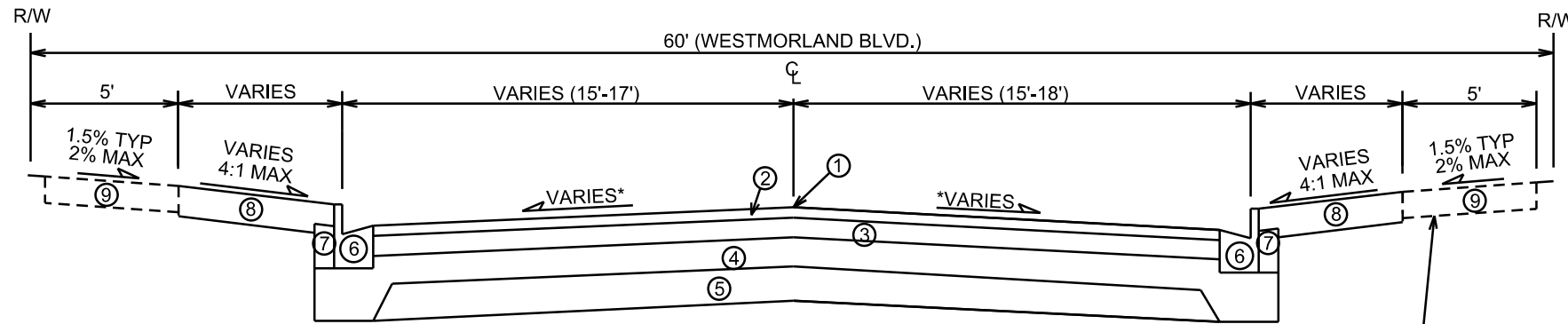
EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY).....2,200 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....400 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....2,600 C.Y.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



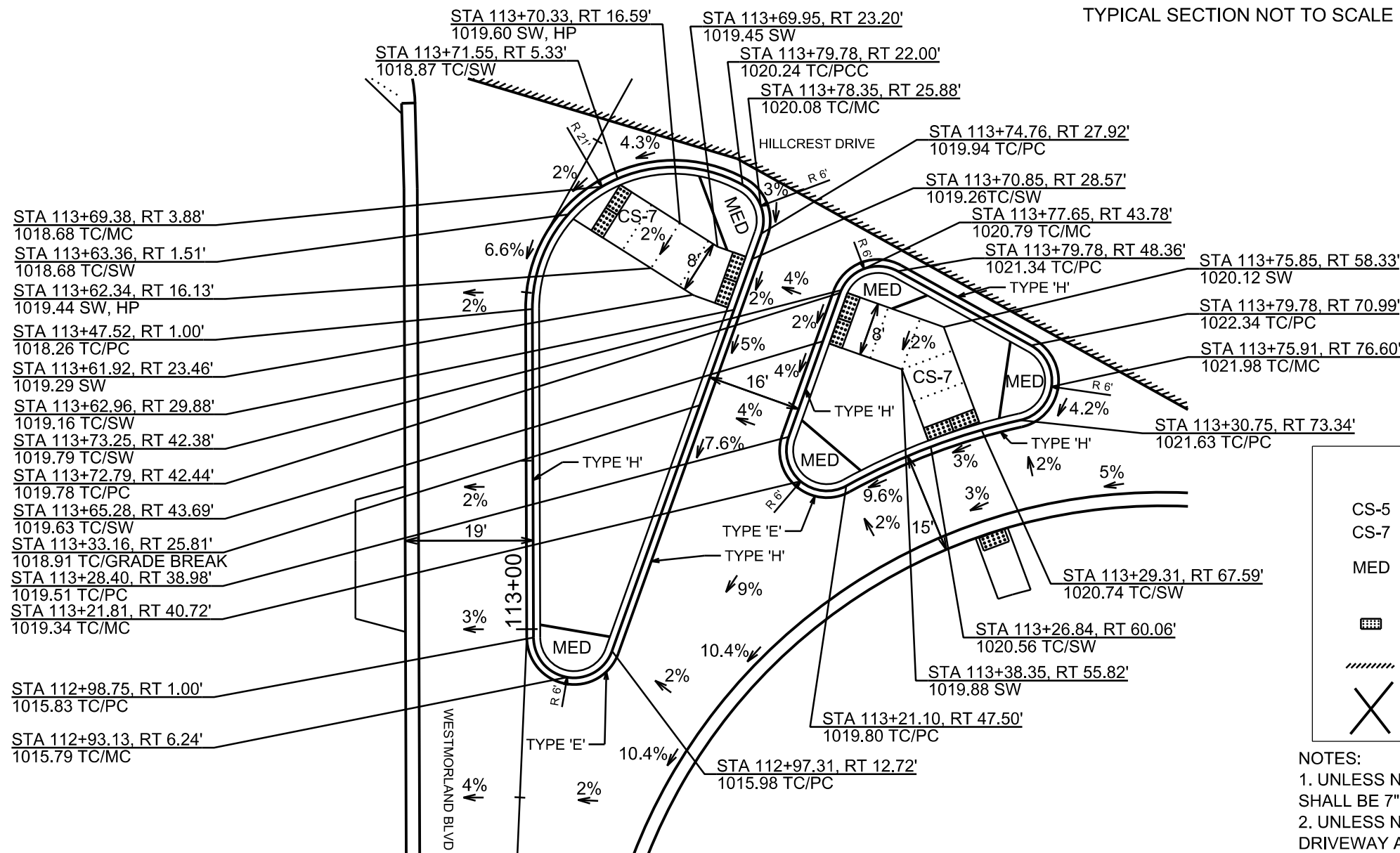
**TYPICAL FINISHED SECTION
WESTMORLAND BLVD.**

EXISTING SIDEWALK
STA 101+00 TO STA 103+65 &
STA 108+65 TO STA 112+34.85

- ① POINT REFERRED TO ON PROFILE
- ② 1 3/4" BITUMINOUS UPPER LAYER, TYPE E-0.3
- ③ 1 3/4" BITUMINOUS LOWER LAYER, TYPE E-0.3
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ STDN TYPE 'A' OR DWY TYPE 'X' OR TYPE 'H' CONCRETE CURB & GUTTER (SEE PLAN & PROFILES FOR LOCATIONS)
- ⑦ FILL, INCIDENTAL
- ⑧ 6" TOPSOIL, SEED AND EROSION MAT
- ⑨ EXISTING CONCRETE SIDEWALK, REPLACE AS SHOWN ON PLAN & PROFILES OR AS DIRECTED WITH 5" CONCRETE SIDEWALK

*SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND CURB & GUTTER ELEVATIONS.

TYPICAL SECTION NOT TO SCALE



**WESTMORLAND/HILLCREST DRIVE
ISLAND DETAILS**

LEGEND

- CS-5 CONCRETE SIDEWALK 5-INCH
- CS-7 CONCRETE SIDEWALK 7-INCH
- MED CONCRETE MEDIAN
- ISLAND NOSE (SEE CITY SDD 3.13)
- CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
- SAWING ASPHALT
- TREE REMOVAL

- NOTES:**
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.
 2. UNLESS NOTES OTHERWISE, IT IS INTENDED THAT DRIVEWAY APRON REPLACEMENTS MATCH DRIVEWAY MATERIAL IN LOCATIONS WITHOUT SIDEWALK.
 3. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.

PLOT SCALE: _____

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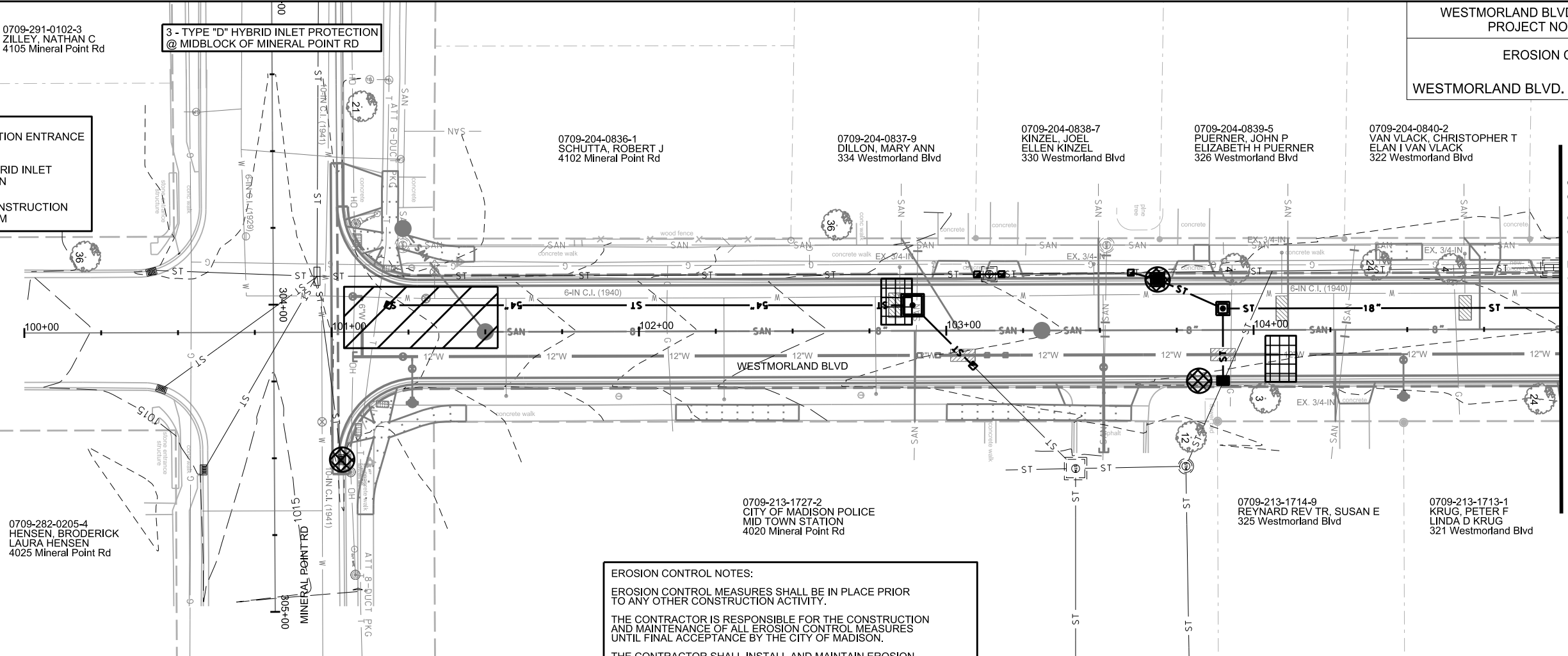
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN
WESTMORLAND BLVD. CITY OF MADISON

CONSTRUCTION ENTRANCE

TYPE D HYBRID INLET PROTECTION

STREET CONSTRUCTION STONE BERM



EROSION CONTROL NOTES:

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

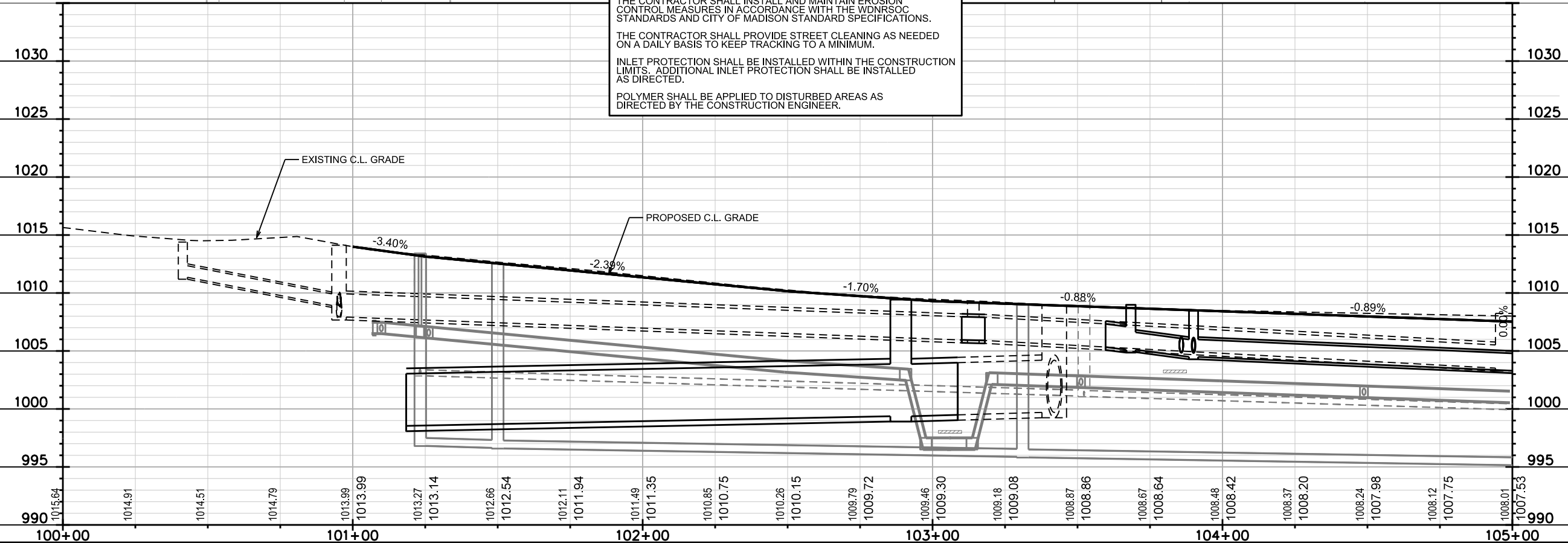
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE 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.

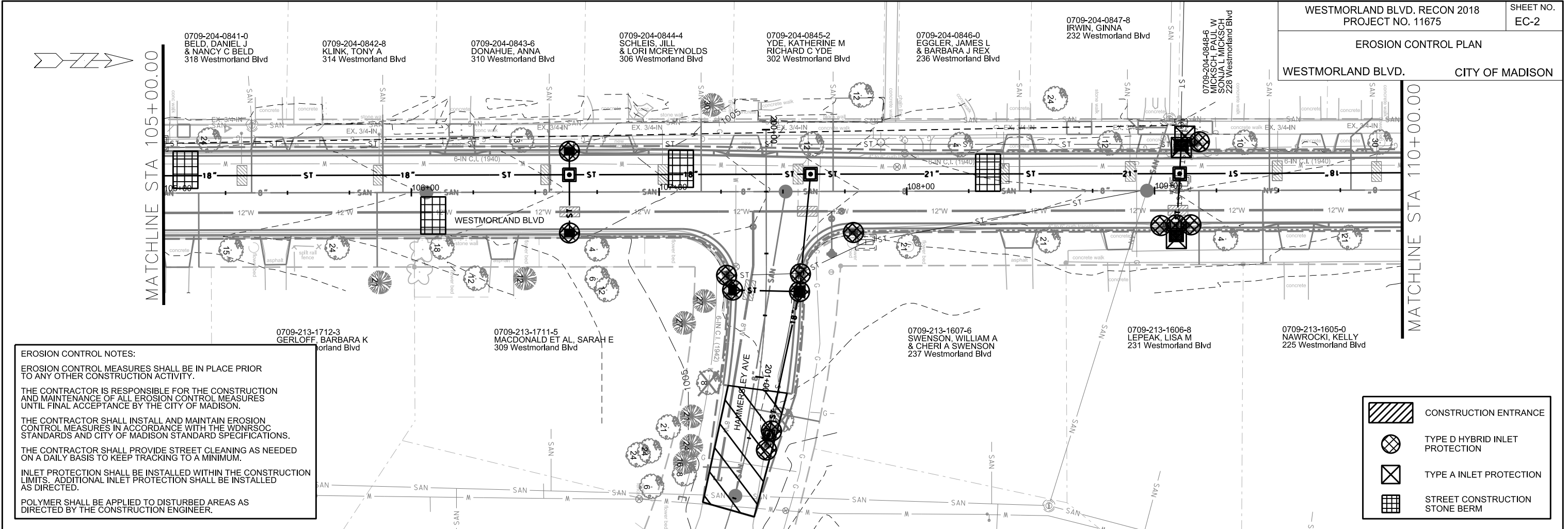
INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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
WESTMORLAND BLVD. CITY OF MADISON



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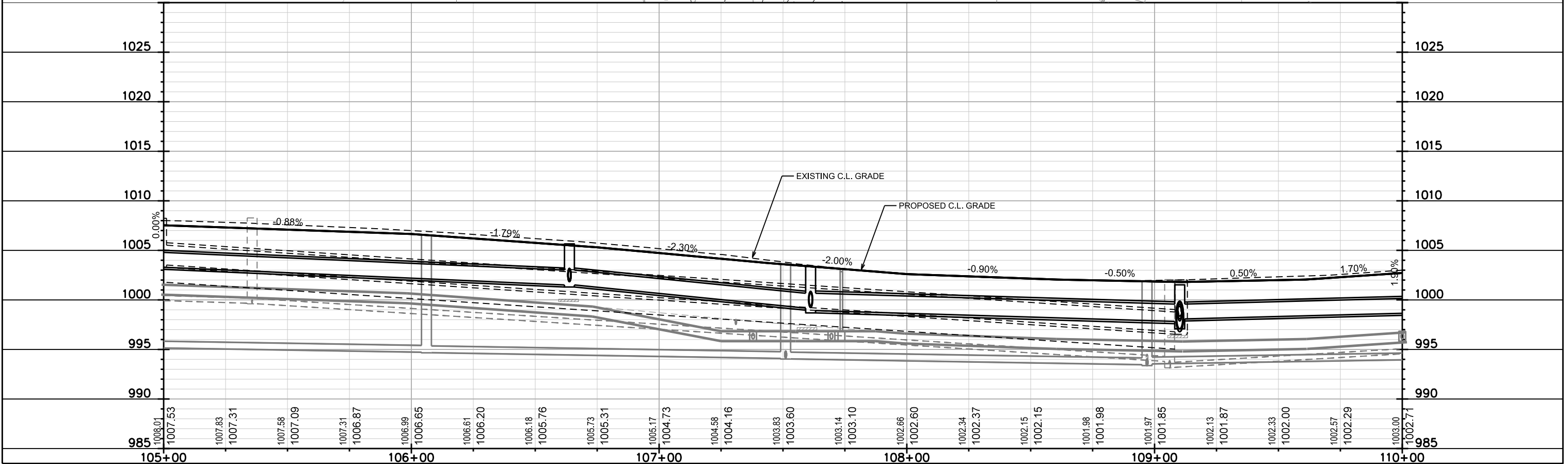
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	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE A INLET PROTECTION
	STREET CONSTRUCTION STONE BERM



PLOT SCALE:

PLOT NAME:

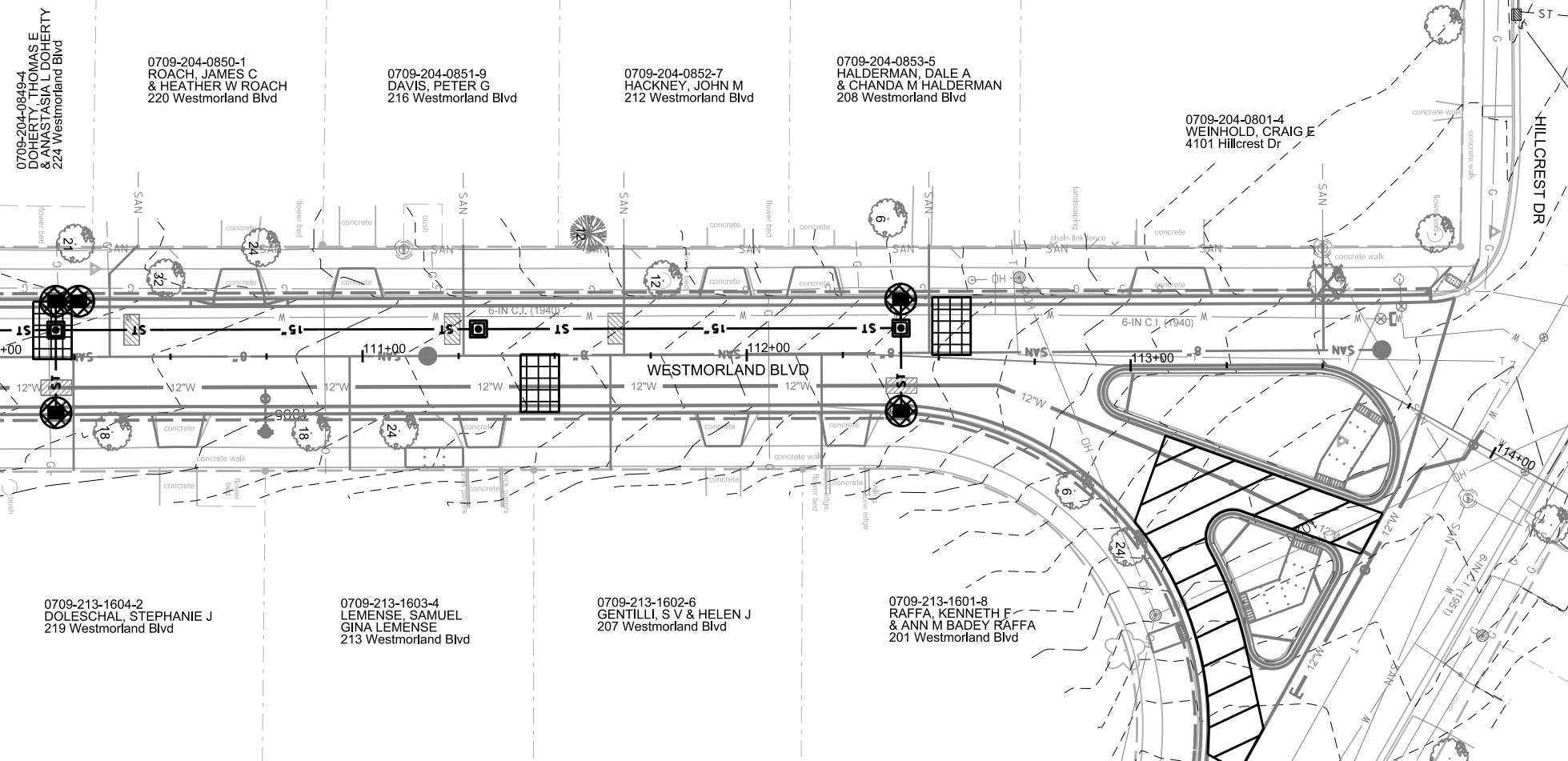
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL PLAN

WESTMORLAND BLVD. CITY OF MADISON

MATCHLINE STA 110+00.00



	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	STREET CONSTRUCTION STONE BERM

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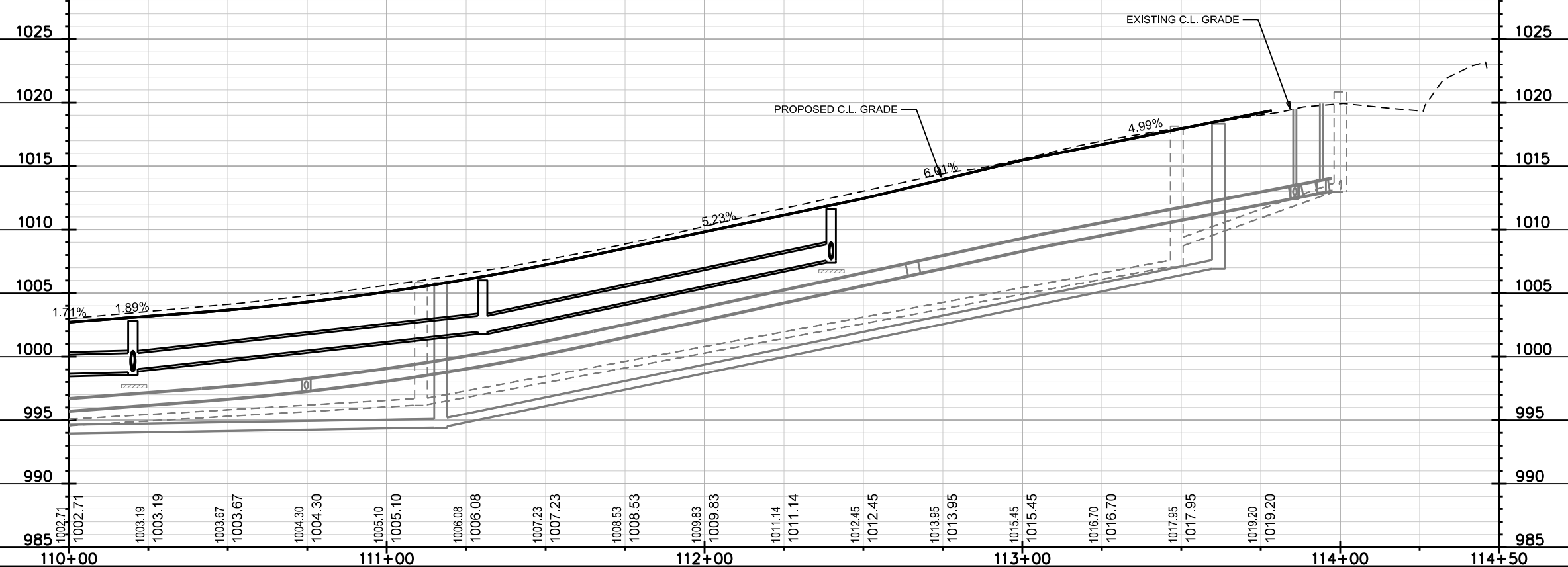
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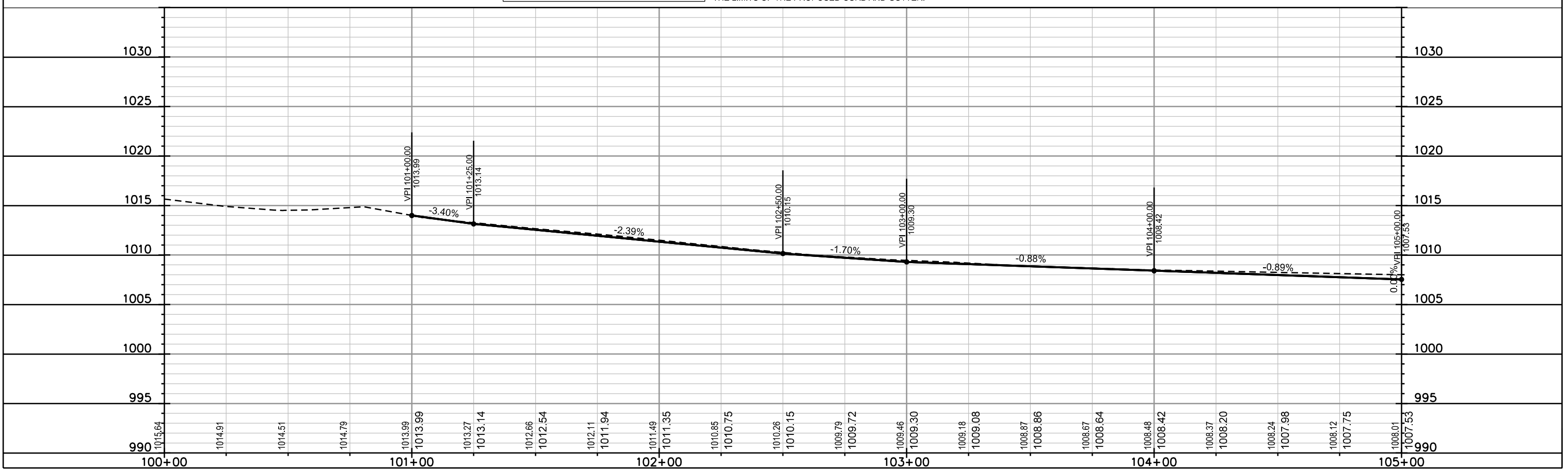
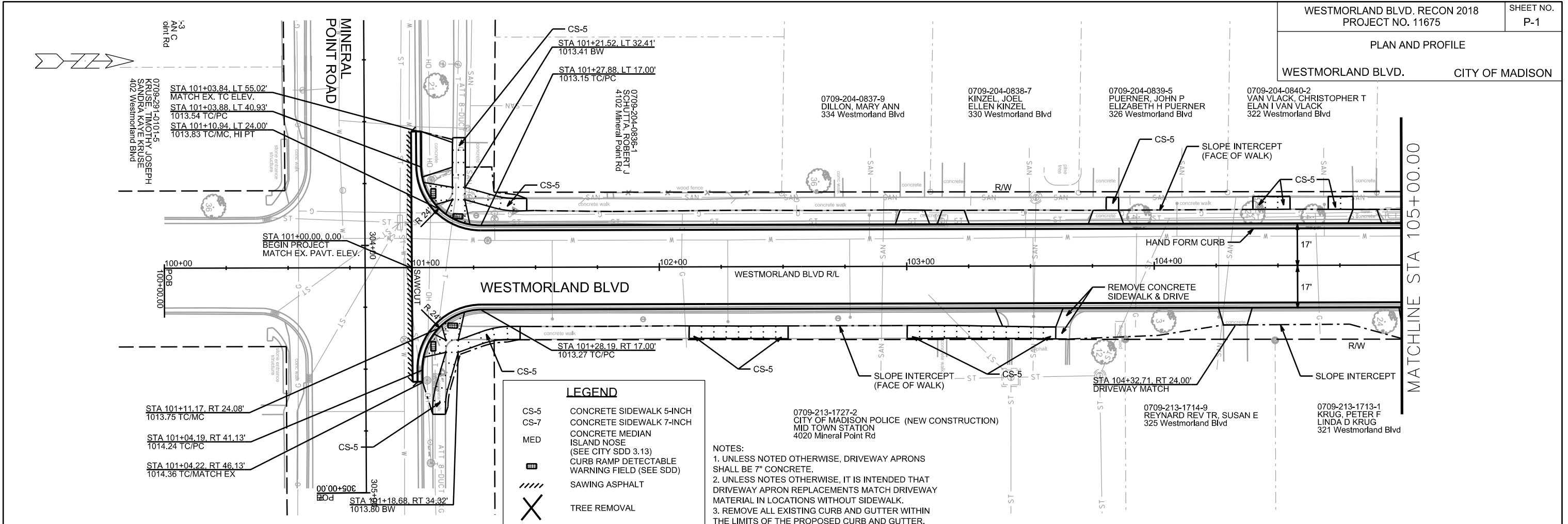
PLOT SCALE:

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REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
WESTMORLAND BLVD. CITY OF MADISON



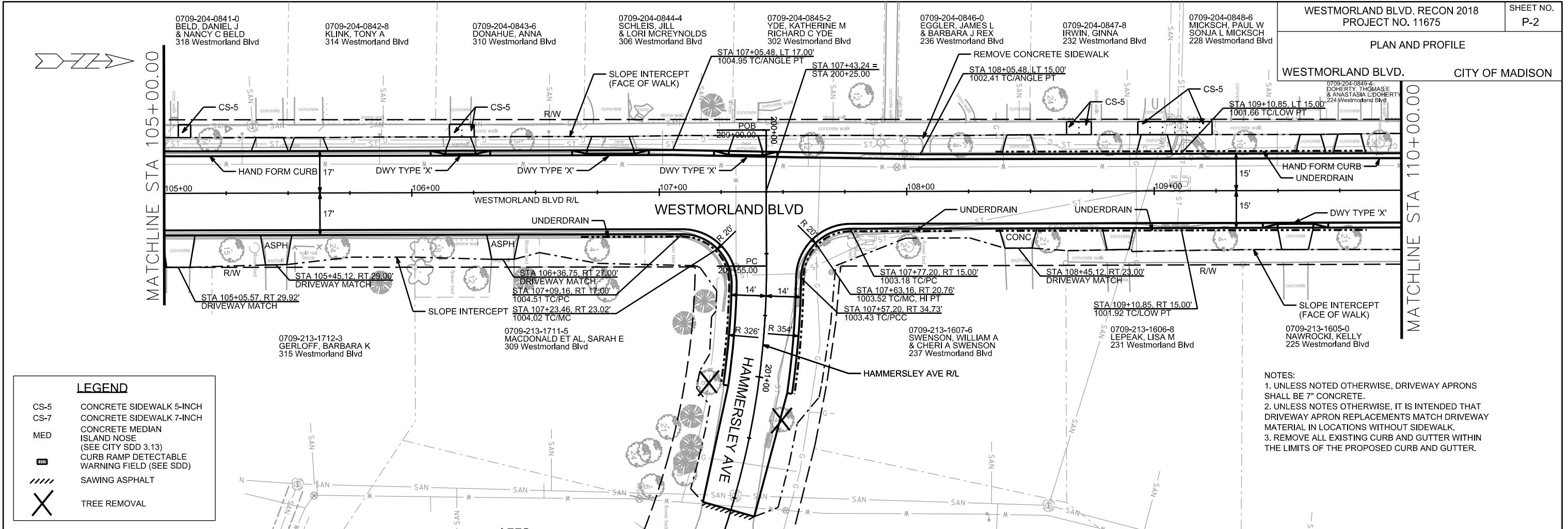
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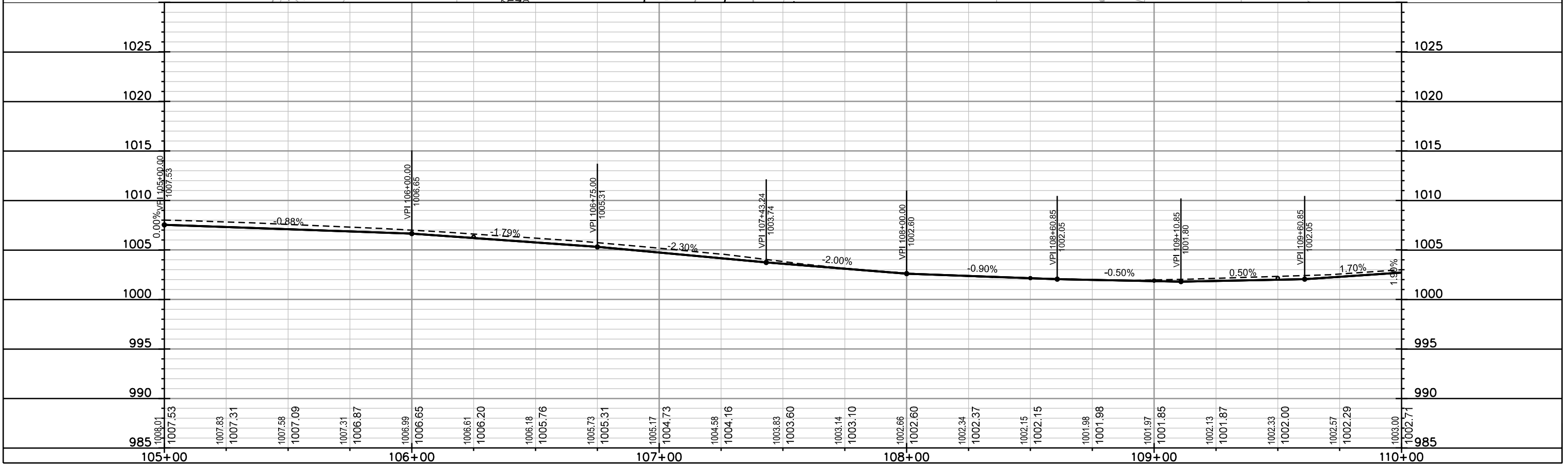
PLAN AND PROFILE
WESTMORLAND BLVD. CITY OF MADISON



LEGEND

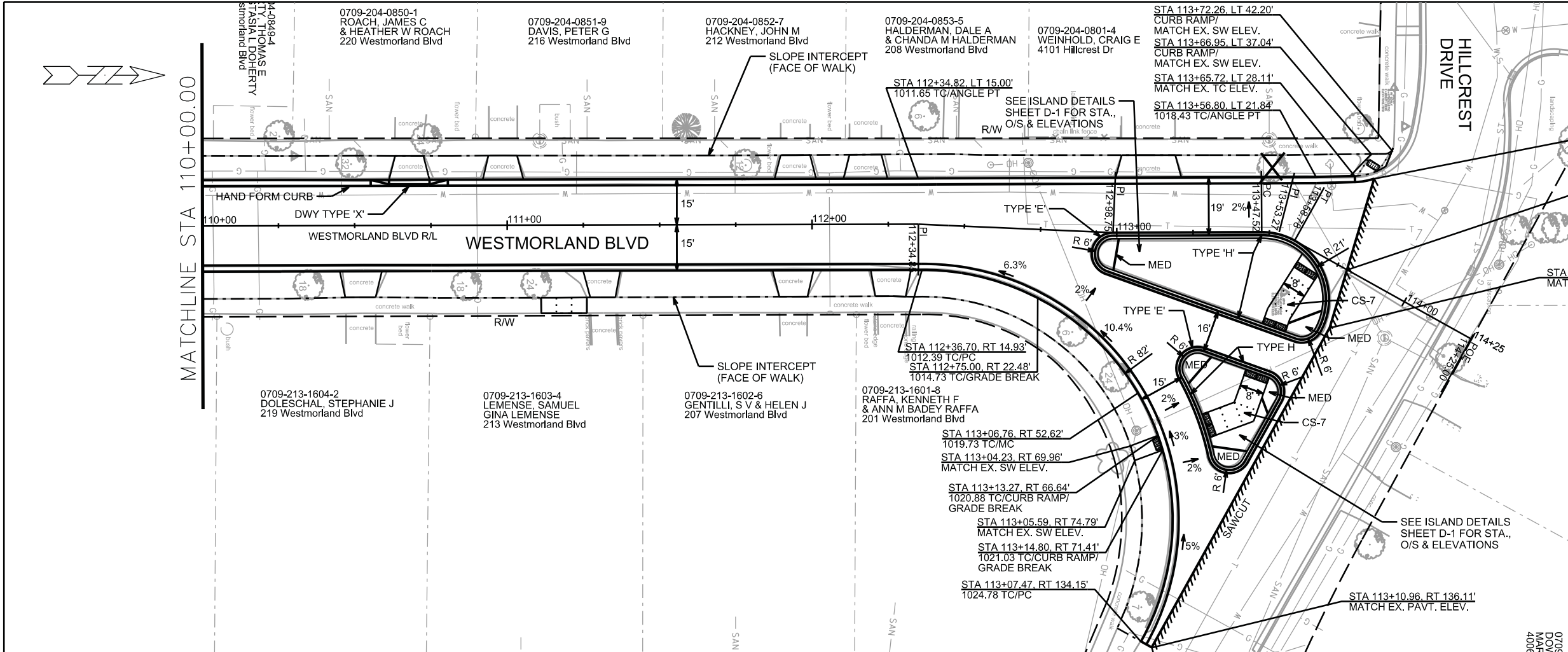
CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
MED	CONCRETE MEDIAN ISLAND NOSE (SEE CITY SDD 3.13)
	CURB RAMP DETECTABLE WARNING FIELD (SEE SDD)
	SAWING ASPHALT
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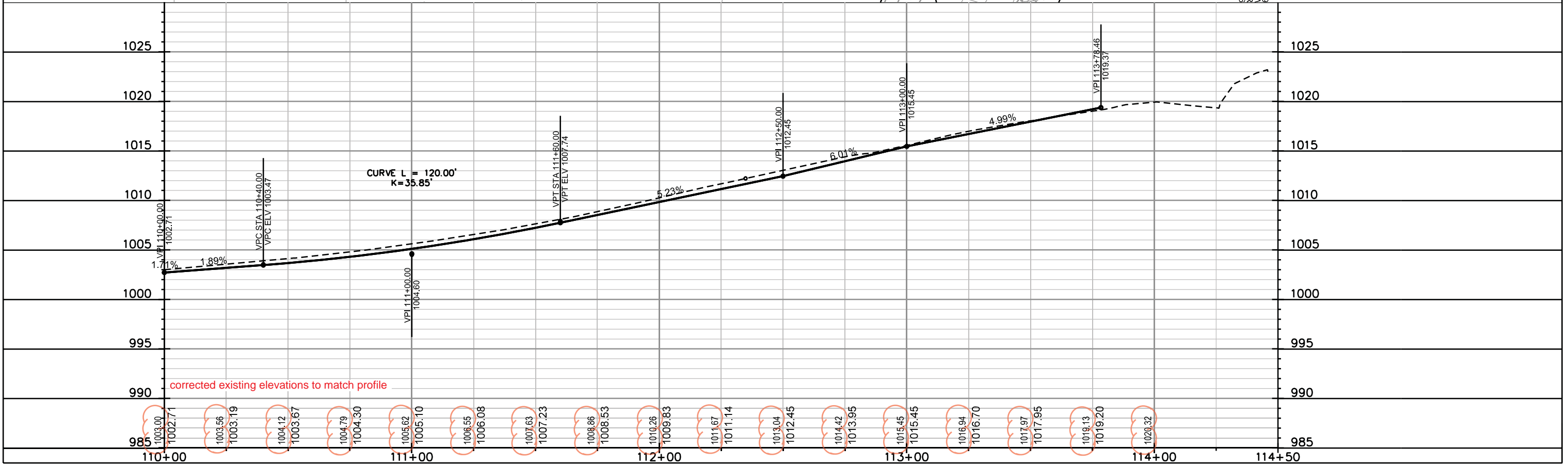
PLAN AND PROFILE
WESTMORLAND BLVD. CITY OF MADISON



LEGEND

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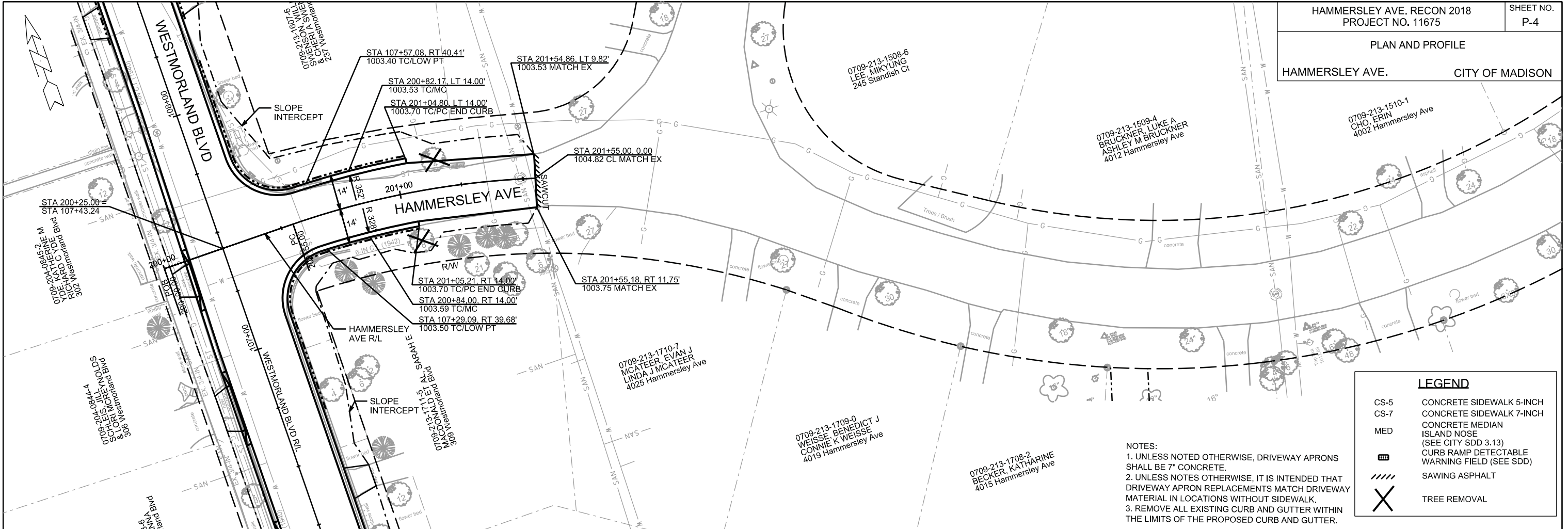
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PLAN AND PROFILE

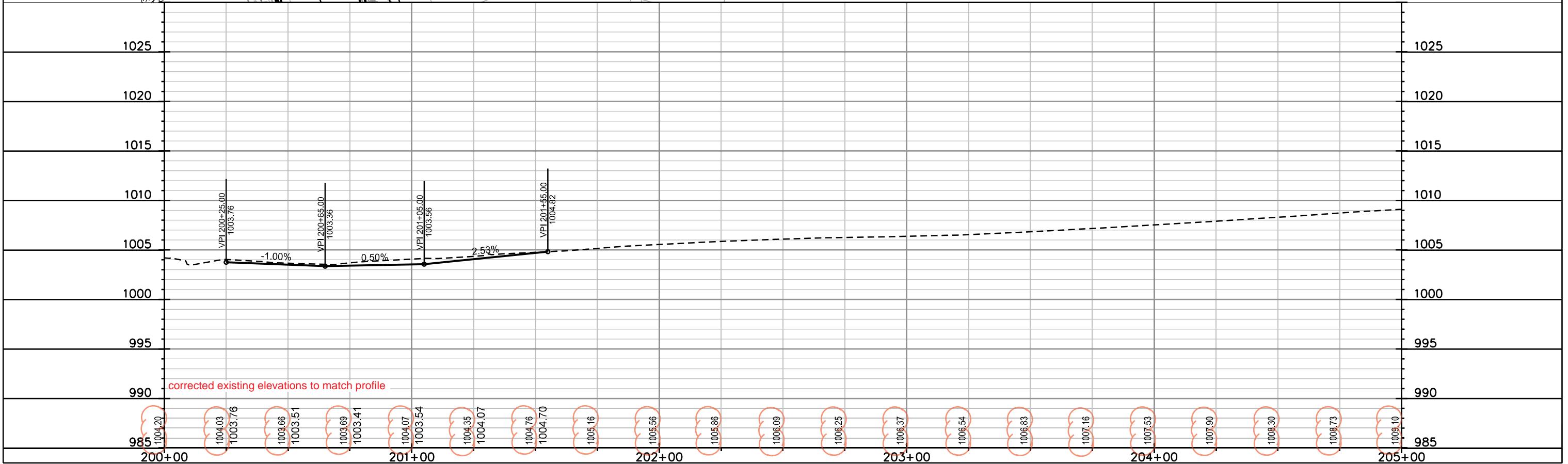
HAMMERSLEY AVE. CITY OF MADISON



LEGEND

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	ISLAND NOSE (SEE CITY SDD 3.13)
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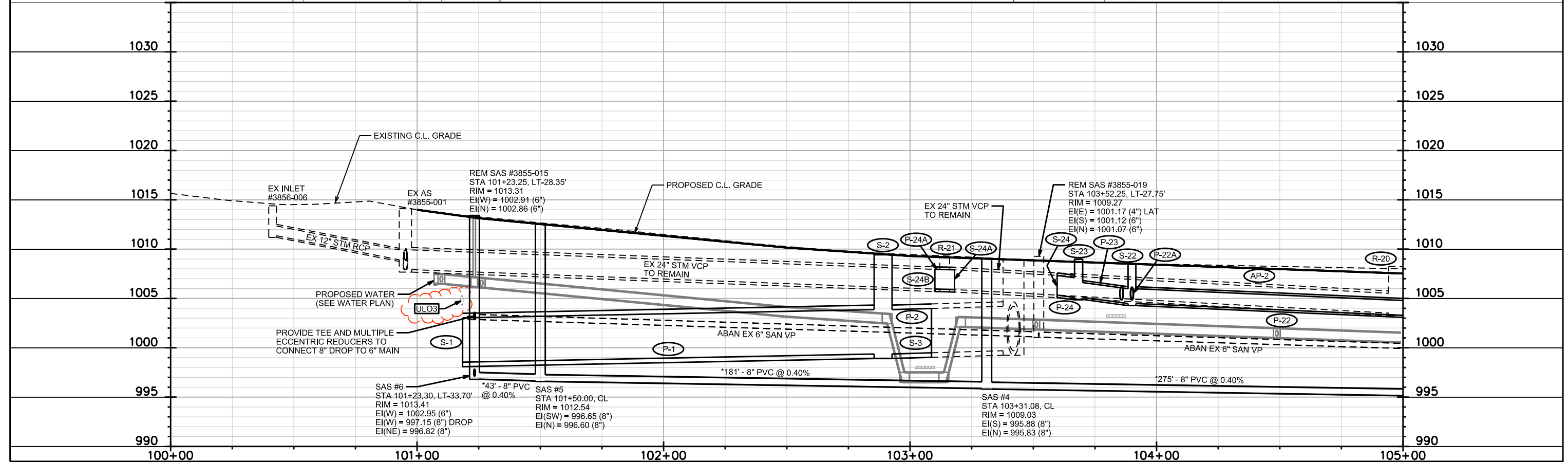
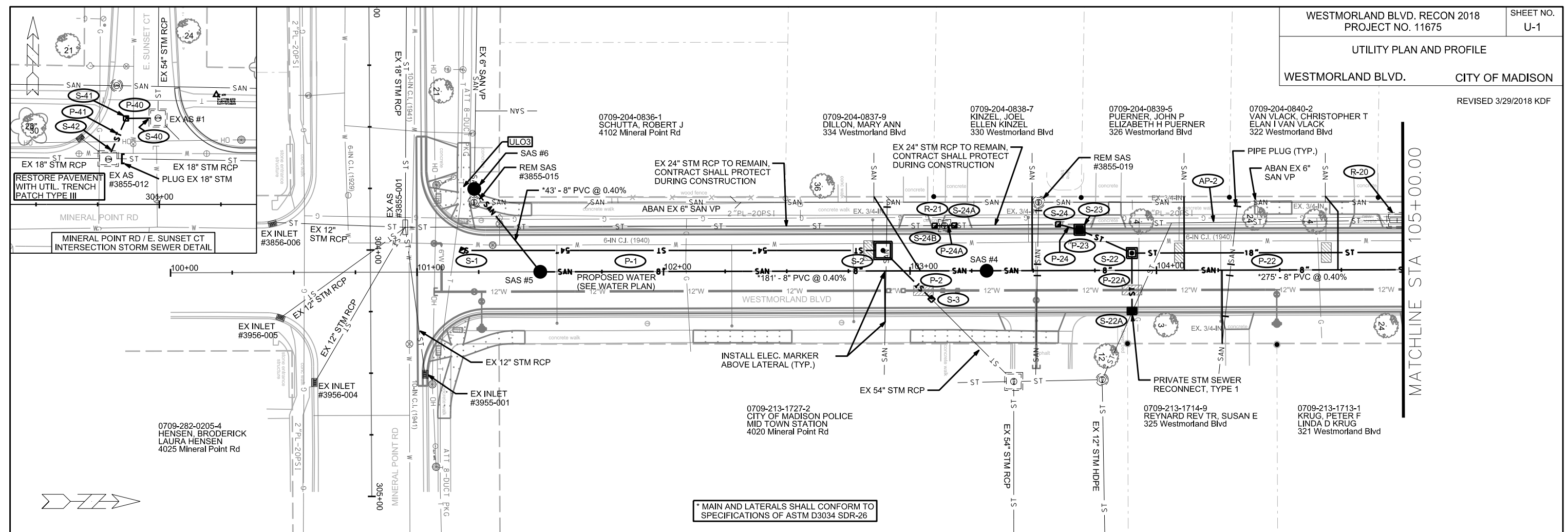
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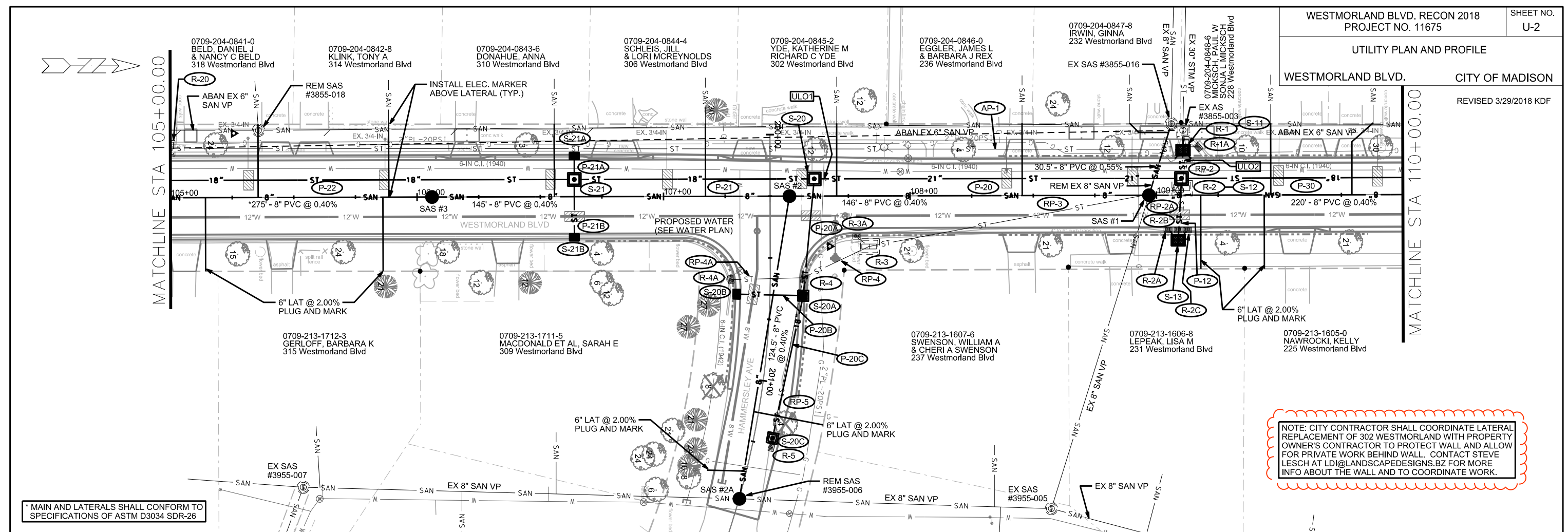
UTILITY PLAN AND PROFILE

WESTMORLAND BLVD. CITY OF MADISON

REVISED 3/29/2018 JDF

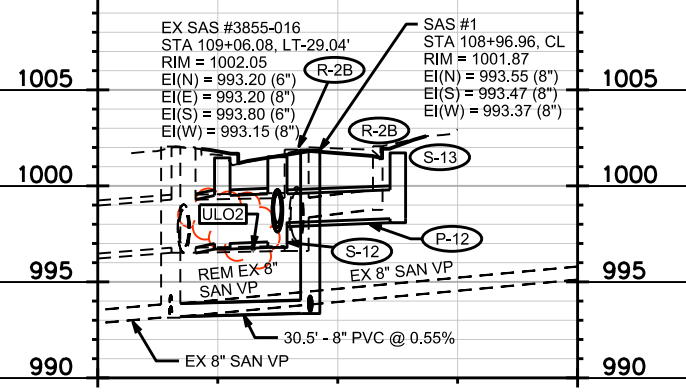
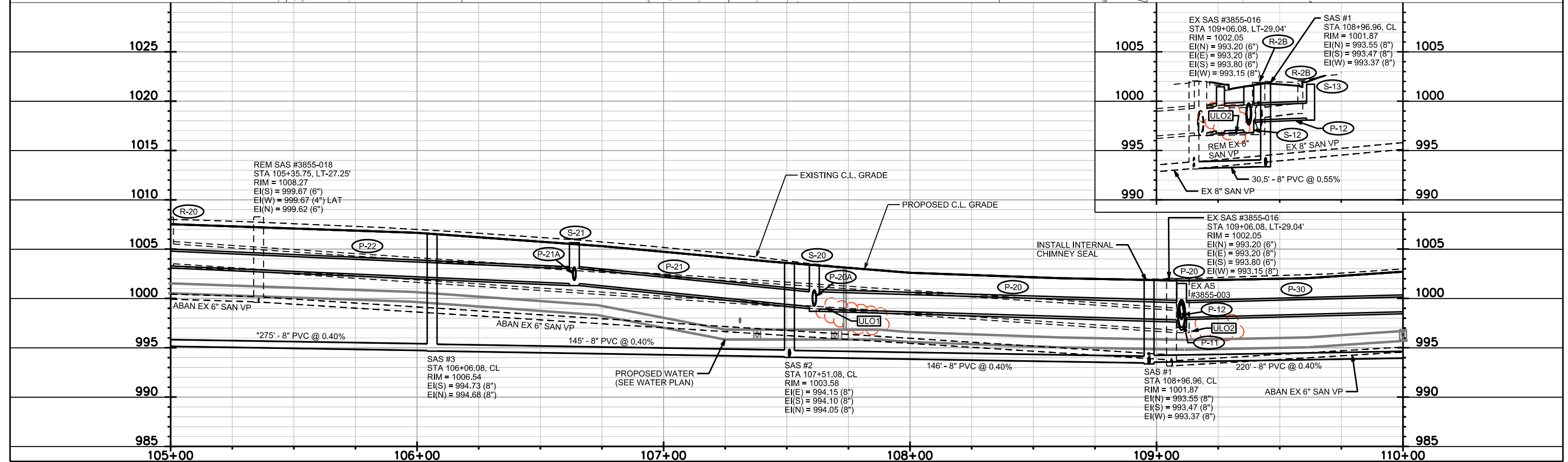


PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: CITY CONTRACTOR SHALL COORDINATE LATERAL REPLACEMENT OF 302 WESTMORLAND WITH PROPERTY OWNER'S CONTRACTOR TO PROTECT WALL AND ALLOW FOR PRIVATE WORK BEHIND WALL. CONTACT STEVE LESCH AT LDJ@LANDSCAPEDESIGNS.BZ FOR MORE INFO ABOUT THE WALL AND TO COORDINATE WORK.

* MAIN AND LATERALS SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

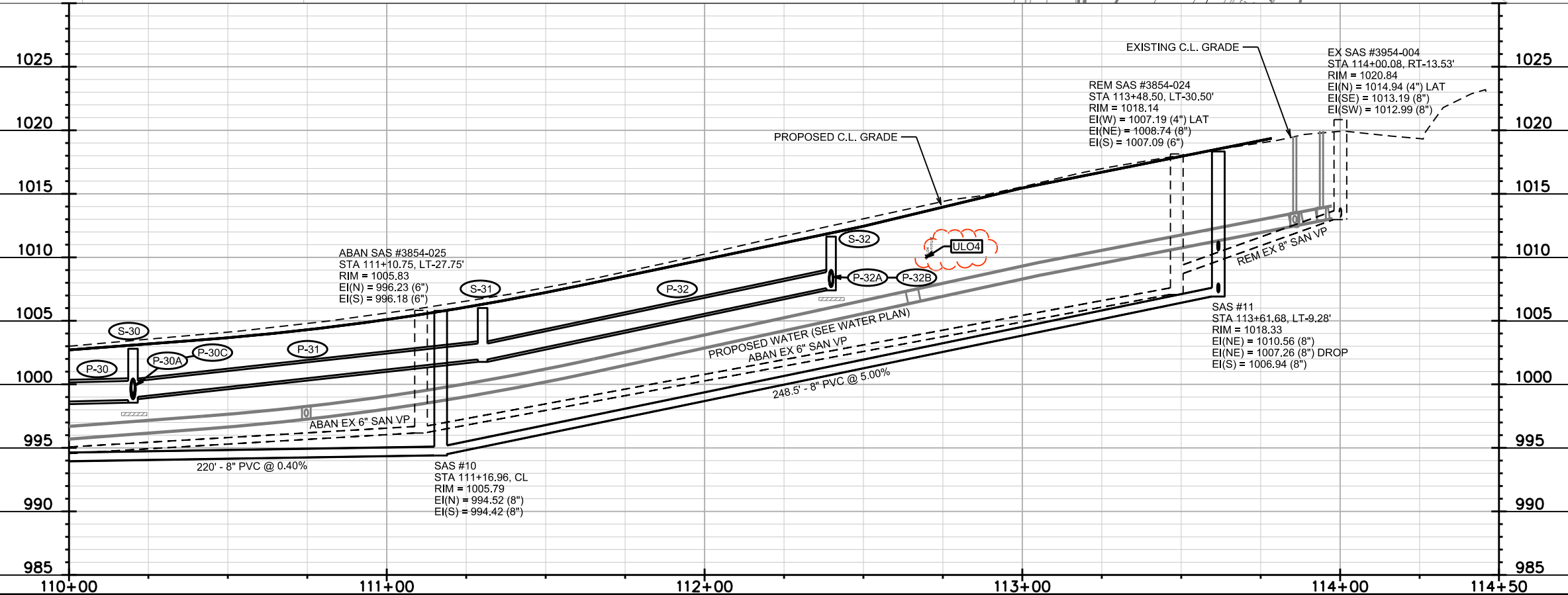
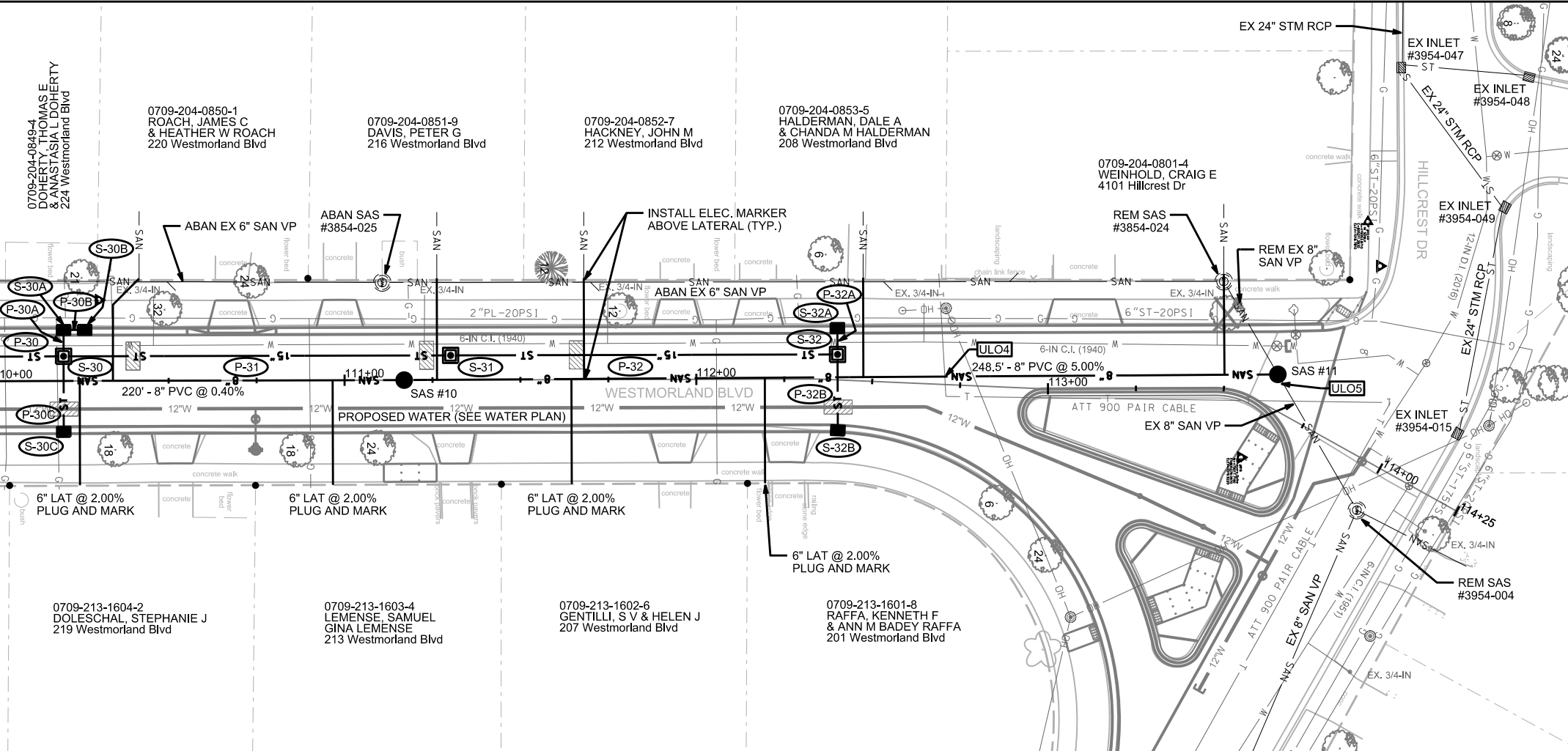


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UTILITY PLAN AND PROFILE

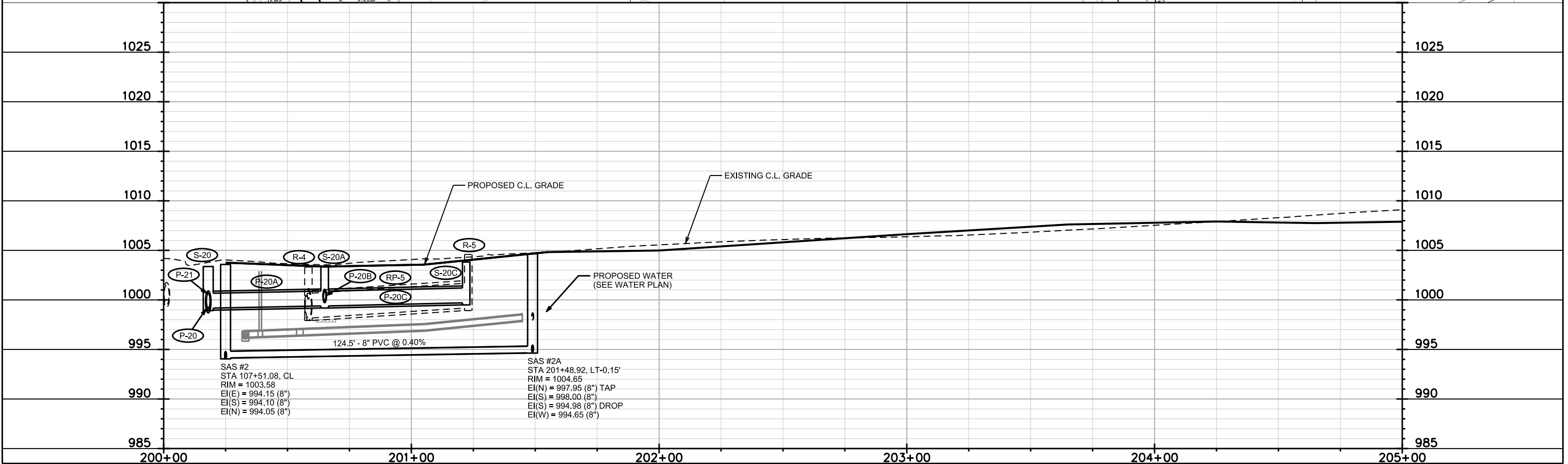
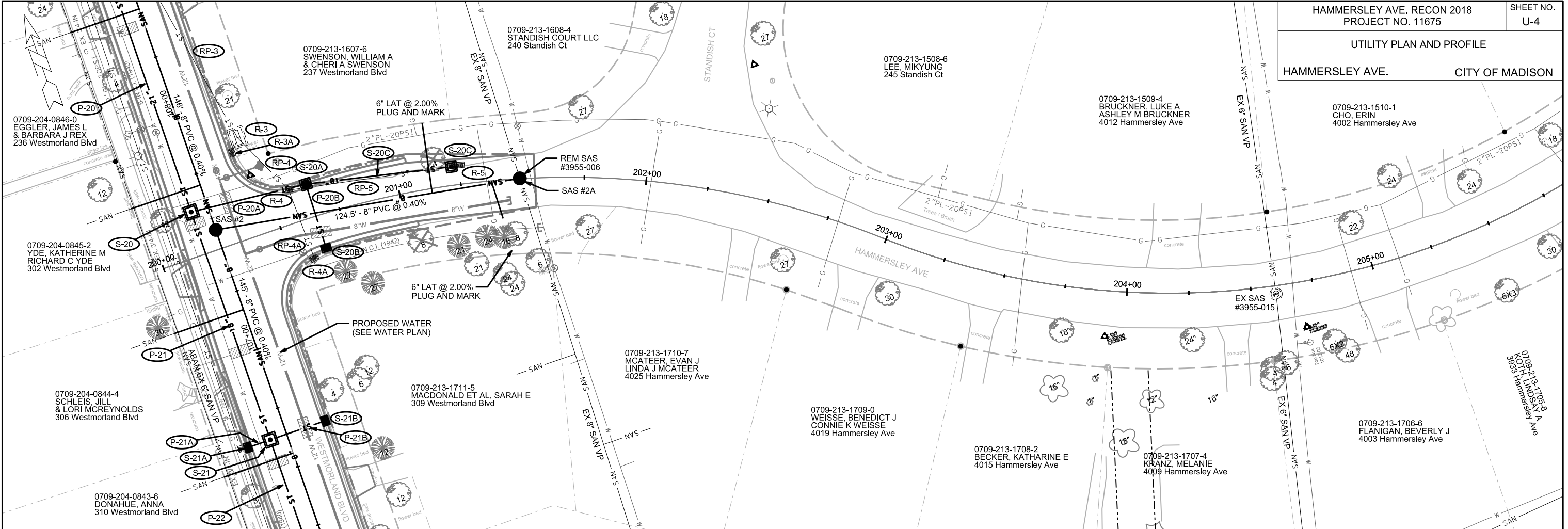
WESTMORLAND BLVD. CITY OF MADISON
REVISED 3/29/2018 KDF

MATCHLINE STA 110+00.00



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

UTILITY PLAN AND PROFILE
HAMMERSLEY AVE. CITY OF MADISON



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
WESTMORLAND BLVD						
SAS #1	108+96.96	CL	1001.87	993.37	8.50	[1]
SAS #2	107+51.08	CL	1003.58	994.05	9.53	-
SAS #3	106+06.08	CL	1006.54	994.68	11.86	-
SAS #4	103+31.08	CL	1009.03	995.83	13.20	-
SAS #5	101+50.00	CL	1012.54	996.60	15.94	-
SAS #6	101+23.30	LT-33.70	1013.41	996.82	16.59	[2]
SAS #10	111+16.96	CL	1005.79	994.42	11.37	-
SAS #11	113+61.68	LT-9.28	1018.33	1006.94	11.39	[2]
HAMMERSLEY AVE						
SAS #2A	201+48.92	LT-0.15	1004.65	994.65	10.00	[2]

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
WESTMORLAND BLVD						
SAS #3855-015	101+23.25	LT-28.35	1013.31	1002.86	10.45	-
SAS #3855-019	103+52.25	LT-27.75	1009.27	1001.07	8.20	-
SAS #3855-018	105+35.75	LT-27.25	1008.27	999.62	8.65	-
SAS #3854-024	113+48.50	LT-30.50	1018.14	1007.09	11.05	-

SANITARY STRUCTURE ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
WESTMORLAND BLVD						
SAS #3854-025	111+10.75	LT-27.75	1005.83	996.18	9.65	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
WESTMORLAND BLVD								
EX SAS 3855-016	SAS #1	993.20	993.37	30.5	0.55%	8"	SDR-35	-
SAS #1	SAS #2	993.47	994.05	146	0.40%	8"	SDR-35	-
SAS #2	SAS #3	994.10	994.68	145	0.40%	8"	SDR-35	-
SAS #3	SAS #4	994.73	995.83	275	0.40%	8"	SDR-26	-
SAS #4	SAS #5	995.88	996.60	181	0.40%	8"	SDR-26	-
SAS #5	SAS #6	996.65	996.82	43	0.40%	8"	SDR-26	-
SAS #1	SAS #10	993.55	994.42	220	0.40%	8"	SDR-35	-
SAS #10	SAS #11	994.52	1006.94	248.5	5.00%	8"	SDR-35	-
HAMMERSLEY AVE								
SAS #2	SAS #2A	994.15	994.65	124.5	0.40%	8"	SDR-35	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
WESTMORLAND BLVD						
SAS #3854-024	SAS #11	27	VP	8"	Y	-

SANITARY PIPE ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
WESTMORLAND BLVD						
SAS #3855-019	SAS #3855-015	225	VP	6"	N	[3]
SAS #3855-018	SAS #3855-019	180	VP	6"	N	[3]
SAS #3855-016	SAS #3855-018	366	VP	6"	N	[3]
SAS #3855-016	SAS #3854-025	201	VP	6"	N	[3]
SAS #3854-025	SAS #3854-024	235	VP	6"	N	[3]

SPECIFIC NOTES

- [1] INSTALL INTERNAL CHIMNEY SEAL PER S.D.D. 5.7.17
- [2] CONSTRUCT OUTSIDE DROP PER S.D.D. 5.7.2
- [3] PIPE PLUGS SHALL BE CONSIDERED INCIDENTAL TO ABANDONMENT

STORM SEWER SCHEDULE

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
WESTMORLAND BLVD							
S-1	101+18.44	LT-8.75	PLUG	-	998.54	-	[1]
S-2	102+89.06	LT-8.33	6X6 SAS	1009.43	999.37	10.06	FP, W/R-1550-0054
S-3	103+08.68	RT-11.45	COLLAR	-	999.49	-	-
S-10	109+10.75	LT-26.35	TAP	-	996.78	-	-
S-11	109+10.81	LT-18.28	TERRACE TYPE II	1001.46	997.00	4.46	[2], LP, UD, FP
S-12	109+10.16	LT-6.81	4X4 SAS	1001.52	997.08	4.44	W/R-1550-0054
S-13	109+08.77	RT-18.28	TERRACE TYPE II	1001.72	998.29	3.43	[2], LP, UD, FP
S-20	107+61.16	LT-7.00	4X4 SAS	1003.37	998.92	4.45	W/R-1550-0054
S-21	106+63.80	LT-7.00	4X4 SAS	1005.65	1001.51	4.14	W/R-1550-0054
S-21A	106+63.82	LT-16.50	H INLET	1006.10	1002.14	3.96	W/R-3067-7004-V
S-21B	106+63.80	RT-16.50	H INLET	1005.44	1002.42	3.02	W/R-3067-7004-V
S-22	103+90.02	LT-7.00	3X3 SAS	1008.48	1004.49	3.99	FP, W/R-1550-0054
S-22A	103+90.02	RT-16.50	H INLET	1008.41	1005.20	3.21	W/R-3067-7004-V
S-23	103+68.81	LT-16.50	H INLET	1008.98	1005.11	3.87	FP, W/R-3067-7004-V
S-24	103+60.10	LT-18.75	BEND	-	1005.33	-	-
S-24A	103+18.05	LT-18.35	COLLAR	-	1005.90	-	-
S-24B	103+10.05	LT-18.35	COLLAR	-	1005.95	-	-
S-30	110+20.16	LT-7.00	3X3 SAS	1002.80	998.77	4.03	W/R-1550-0054
S-30A	110+20.16	LT-14.50	H INLET	1002.96	999.07	3.89	W/R-3067-7004-V
S-30B	110+26.16	LT-14.50	H INLET	1003.07	999.35	3.72	W/R-3067-7004-V
S-30C	110+20.16	RT-14.50	H INLET	1003.71	999.84	3.87	W/R-3067-7004-V
S-31	111+30.16	LT-7.00	3X3 SAS	1006.01	1001.96	4.05	W/R-1550-0054
S-32	112+39.83	LT-7.21	3X3 SAS	1011.63	1007.58	4.05	W/R-1550-0054
S-32A	112+39.44	LT-14.73	H INLET	1011.76	1007.88	3.88	W/R-3067-7004-V
S-32B	112+40.85	RT-14.35	H INLET	1012.60	1008.59	4.01	W/R-3067-7004-V
HAMMERSLEY AVE							
S-20A	200+65.00	LT-13.50	3X3 SAS	1003.40	999.39	4.01	FP, LP, UD, W/R-3067-7004-VB
S-20B	200+65.12	RT-13.50	H INLET	1003.50	1000.14	3.37	LP, UD, W/R-3067-7004-VB
S-20C	201+22.15	LT-7.50	3X3 SAS	1003.80	999.70	4.10	[3], W/R-1550-0054
MINERAL POINT RD							
S-40	300+99.50	LT-35.05	TAP	-	1010.12	-	-
S-41	300+86.49	LT-34.93	COLLAR	-	1010.22	-	-
S-42	300+79.30	LT-18.65	TAP	-	1010.37	-	-

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
WESTMORLAND BLVD										
P-1	S-1	S-2	998.54	999.37	170.5	167.6	0.50%	54"	TYPE I	-
P-2	S-2	S-3	999.37	999.49	28	23.6	0.50%	54"	TYPE I	-
P-10	S-10	S-11	996.78	997.00	8	4	5.50%	30"	TYPE I	-
P-11	S-11	S-12	997.00	997.08	11.5	7.9	1.00%	30"	TYPE I	-
P-12	S-12	S-13	998.08	998.29	25	21.5	1.00%	18"	TYPE I	-
P-20	S-12	S-20	997.83	998.92	149	145	0.75%	21"	TYPE I	-
P-21	S-20	S-21	999.17	1001.51	97.5	93.4	2.50%	18"	TYPE I	-
P-21A	S-21	S-21A	1002.01	1002.14	9.5	6.5	2.00%	12"	TYPE I	-
P-21B	S-21	S-21B	1002.01	1002.42	23.5	20.5	2.00%	12"	TYPE I	-
P-22	S-21	S-22	1001.51	1004.49	274	270.3	1.10%	18"	TYPE I	-
P-22A	S-22	S-22A	1004.99	1005.20	23.5	21	1.00%	12"	TYPE I	-
P-23	S-22	S-23	1004.49	1005.11	23.5	20	3.10%	18"	TYPE I	-
P-24	S-23	S-24	1005.11	1005.33	9	7.5	3.00%	18"	TYPE I	-
P-24A	S-24A	S-24B	1005.90	1005.95	8	8	0.63%	24"	TYPE I	RECON. TO EXISTING
P-30	S-12	S-30	998.08	998.77	110	106.5	0.65%	18"	TYPE I	-
P-30A	S-30	S-30A	999.02	999.07	7.5	5	1.00%	15"	TYPE I	-
P-30B	S-30A	S-30B	999.32	999.35	6	3	1.00%	12"	TYPE I	-
P-30C	S-30	S-30C	999.27	999.84	21.5	19	3.00%	12"	TYPE I	-
P-31	S-30	S-31	999.02	1001.96	110	107	2.75%	15"	TYPE I	-
P-32	S-31	S-32	1001.96	1007.58	110	107	5.25%	15"	TYPE I	-
P-32A	S-32	S-32A	1007.83	1007.88	7.5	5	1.00%	12"	TYPE I	-
P-32B	S-32	S-32B	1007.83	1008.59	21.5	19.1	4.00%	12"	TYPE I	-
HAMMERSLEY AVE										
P-20A	S-20	S-20A	999.17	999.39	47.5	44.1	0.50%	18"	TYPE I	-
P-20B	S-20A	S-20B	999.89	1000.14	27	24.5	1.00%	12"	TYPE I	-
P-20C	S-20A	S-20C	999.39	999.70	59	56.1	0.55%	18"	TYPE I	-
MINERAL POINT RD										
P-40	S-40	S-41	1010.12	1010.22	13	10	1.00%	18"	TYPE I	-
P-41	S-41	S-42	1010.22	1010.37	18	15.1	1.00%	18"	TYPE I	-

NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

STANDARD NOTES:

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

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

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

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

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

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

- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT 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] PLUG PAID FOR UNDER BID ITEM 90030

[2] TOP OF CASTING ELEVATION IS 0.2' BELOW TOP OF CURB ELEVATION PER S.D.D. 5.7.12A

[3] PROVIDE CUT-OUT TO THE WEST FOR FUTURE CONNECTION

STORM SEWER SCHEDULE

*REVISED 3/292018 KDF

WESTMORLAND BLVD. RECON 2018	SHEET NO.
PROJECT NO. 11675	U-7
STORM SEWER SCHEDULE	
CITY OF MADISON	

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
WESTMORLAND BLVD					
R-1	IN 3855-004	109+12.00	LT-19.65	SAS	-
R-1A	IN 3855-005	109+17.00	LT-19.50	INLET	-
R-2	AS 3955-010	109+10.50	LT-2.80	SAS	-
R-2A	IN 3955-021	109+04.65	RT-14.00	INLET	-
R-2B	IN 3955-020	109+08.75	RT-14.00	INLET	-
R-2C	IN 3955-019	109+12.50	RT-14.00	INLET	-
R-3	AS 3955-004	107+83.40	RT-20.50	SAS	-
R-3A	IN 3955-006	107+78.25	RT-16.50	INLET	-
R-20	AS 3855-002	104+97.65	LT-20.00	SAS	-
R-21	AS 3855-017	103+14.00	LT-18.35	SAS	-
HAMMERSLEY AVE					
R-4	IN 3955-007	200+58.50	LT-13.50	SAS	-
R-4A	IN 3955-005	200+59.00	RT-16.00	INLET	-
R-5	IN 3955-008	201+23.00	LT-7.50	SAS	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
WESTMORLAND BLVD							
RP-1	AS 3855-003	R-1	4	30"	RCP	N	-
RP-1A	R-1	R-1A	4	12"	RCP	N	-
RP-2	R-1	R-2	11	30"	RCP	N	-
RP-2A	R-2	R-2B	13	12"	RCP	N	-
RP-3	R-2	R-3	120	30"	RCP	Y	-
RP-4	R-3	R-4	22	30"	RCP	Y	-
HAMMERSLEY AVE							
RP-4A	R-4	R-4A	28	12"	RCP	Y	-
RP-5	R-4	R-5	64	30"	RCP	N	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
WESTMORLAND BLVD					
* ULO1	107+65.80	LT-6.30	3" PLASTIC GAS	999.20	[1], BTM OF STM = 998.67
* ULO2	109+14.25	LT-11.85	3" PLASTIC GAS	996.79	[1], BTM OF STM = 996.75
* ULO3	101+18.20	LT-34.55	TELE DUCT	1005.30	OK
* ULO4	112+69.75	RT-0.75	2" STEEL TELE	1010.07	OK, UTILITY CONTINUES TO THE EAST, NOT THE NORTH
* ULO5	113+63.75	LT-7.50	TELE	-	DID NOT NEED

*5 ADDITIONAL UNDISTRIBUTED ULO'S

ABANDON STORM PIPES

ABAN NO.	ABAN FROM	ABAN TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
WESTMORLAND BLVD						
AP-1	R-1	R-20	405.0	24"	VCP	14 PLUGS PAID FOR
AP-2	R-20	S-23	122.0	24"	VCP	6 PLUGS PAID FOR

SPECIFIC NOTES

* [1] PRIVATE UTILITY IN CONFLICT WITH STORM. CONTRACTOR TO COORDINATE WITH OWNER TO RELOCATE.

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

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
WESTMORLAND BLVD					
R-1	IN 3855-004	109+12.00	LT-19.65	SAS	-
R-1A	IN 3855-005	109+17.00	LT-19.50	INLET	-
R-2	AS 3955-010	109+10.50	LT-2.80	SAS	-
R-2A	IN 3955-021	109+04.65	RT-14.00	INLET	-
R-2B	IN 3955-020	109+08.75	RT-14.00	INLET	-
R-2C	IN 3955-019	109+12.50	RT-14.00	INLET	-
R-3	AS 3955-004	107+83.40	RT-20.50	SAS	-
R-3A	IN 3955-006	107+78.25	RT-16.50	INLET	-
R-20	AS 3855-002	104+97.65	LT-20.00	SAS	-
R-21	AS 3855-017	103+14.00	LT-18.35	SAS	-
HAMMERSLEY AVE					
R-4	IN 3955-007	200+58.50	LT-13.50	SAS	-
R-4A	IN 3955-005	200+59.00	RT-16.00	INLET	-
R-5	IN 3955-008	201+23.00	LT-7.50	SAS	-

STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
WESTMORLAND BLVD					
ULO1	107+64.85	LT-7.00	GAS	-	-
ULO2	109+10.50	LT-13.25	GAS	-	-
ULO3	101+17.90	LT-33.85	TELE DUCT	-	-
ULO4	112+70.55	LT-2.25	TELE	-	-
ULO5	113+63.75	LT-7.50	TELE	-	-

*5 ADDITIONAL UNDISTRIBUTED ULO'S

SPECIFIC NOTES

REMOVE STORM PIPES

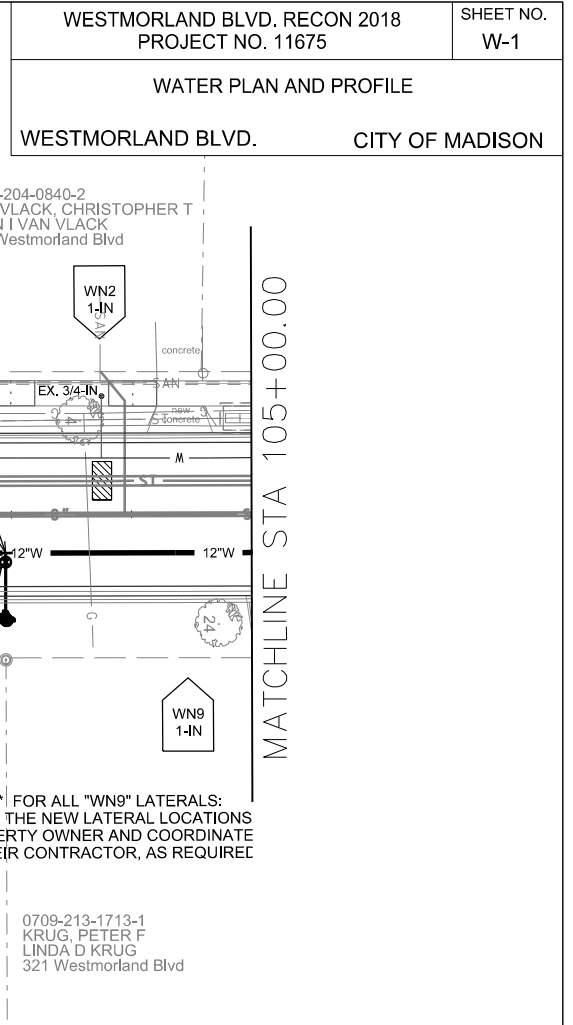
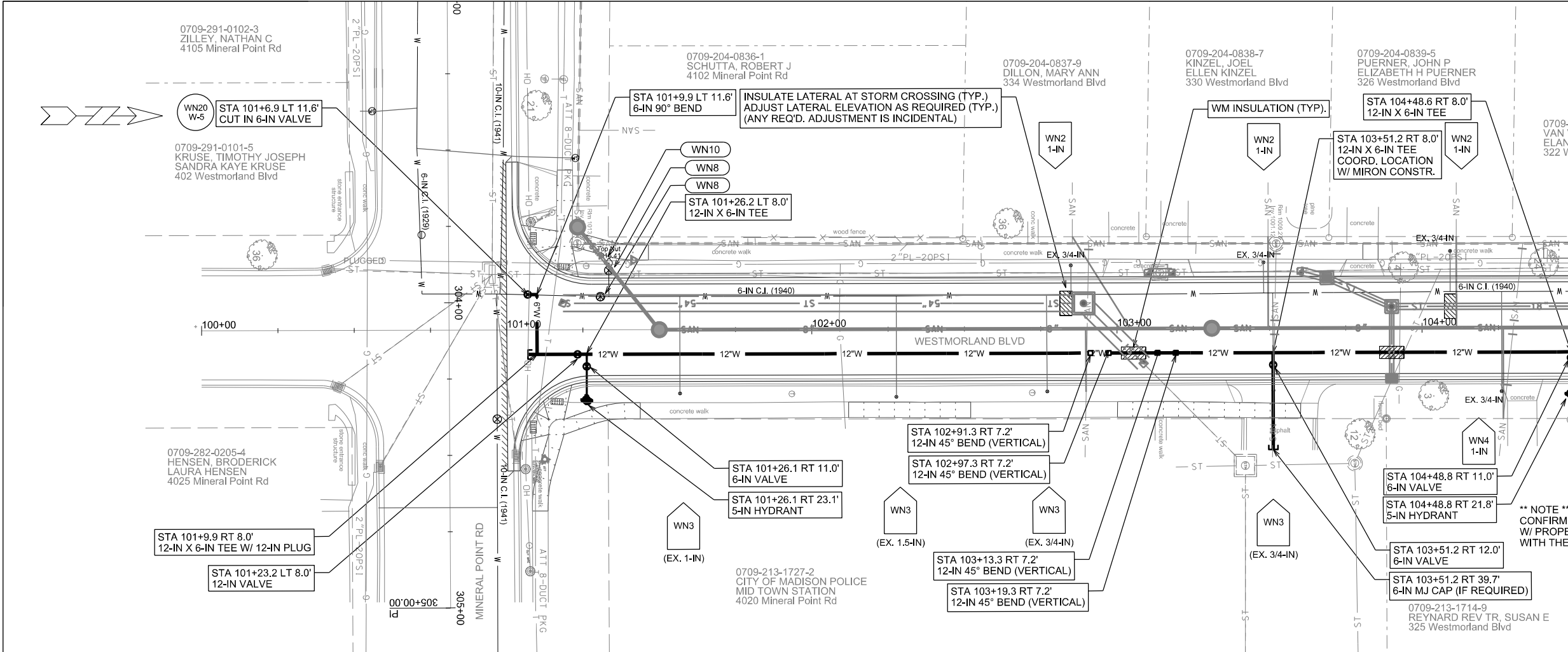
REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
WESTMORLAND BLVD							
RP-1	AS 3855-003	R-1	4	30"	RCP	N	-
RP-1A	R-1	R-1A	4	12"	RCP	N	-
RP-2	R-1	R-2	11	30"	RCP	N	-
RP-2A	R-2	R-2B	13	12"	RCP	N	-
RP-3	R-2	R-3	120	30"	RCP	Y	-
RP-4	R-3	R-4	22	30"	RCP	Y	-
HAMMERSLEY AVE							
RP-4A	R-4	R-4A	28	12"	RCP	Y	-
RP-5	R-4	R-5	64	30"	RCP	N	-

ABANDON STORM PIPES

ABAN NO.	ABAN FROM	ABAN TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
WESTMORLAND BLVD						
AP-1	R-1	R-20	405.0	24"	VCP	14 PLUGS PAID FOR
AP-2	R-20	S-23	122.0	24"	VCP	6 PLUGS PAID FOR

STANDARD NOTES:

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GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

SEE UTILITIES SHEETS FOR SEWER INFORMATION

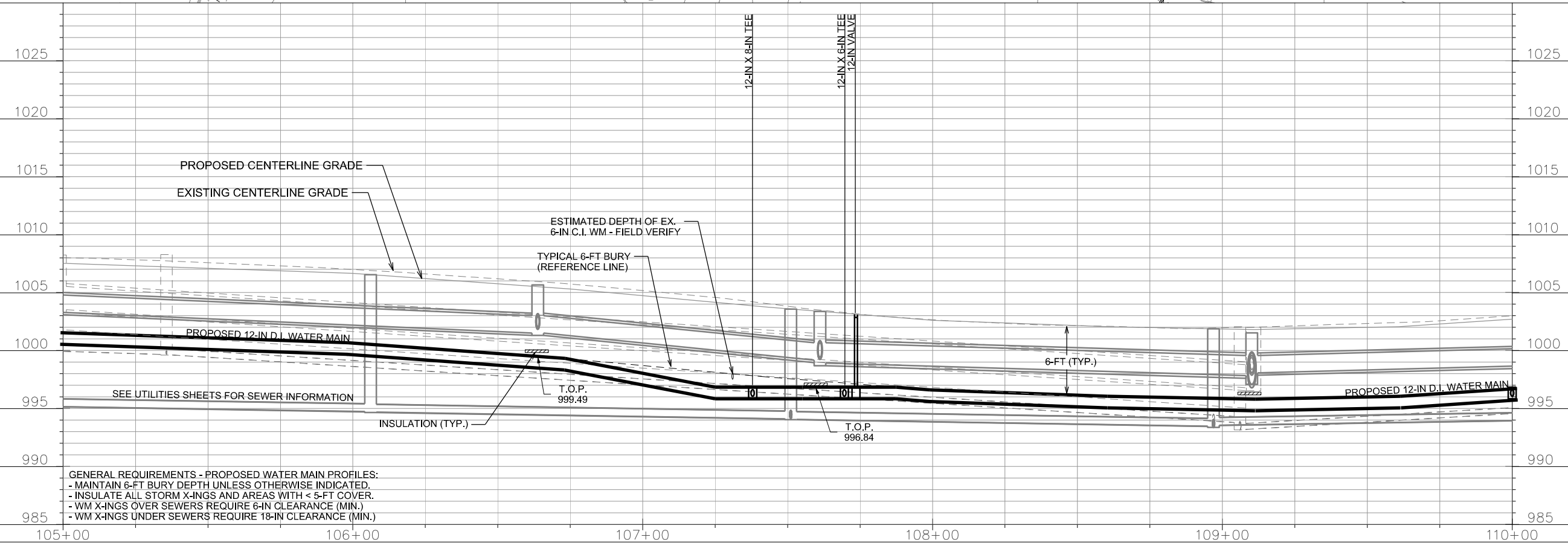
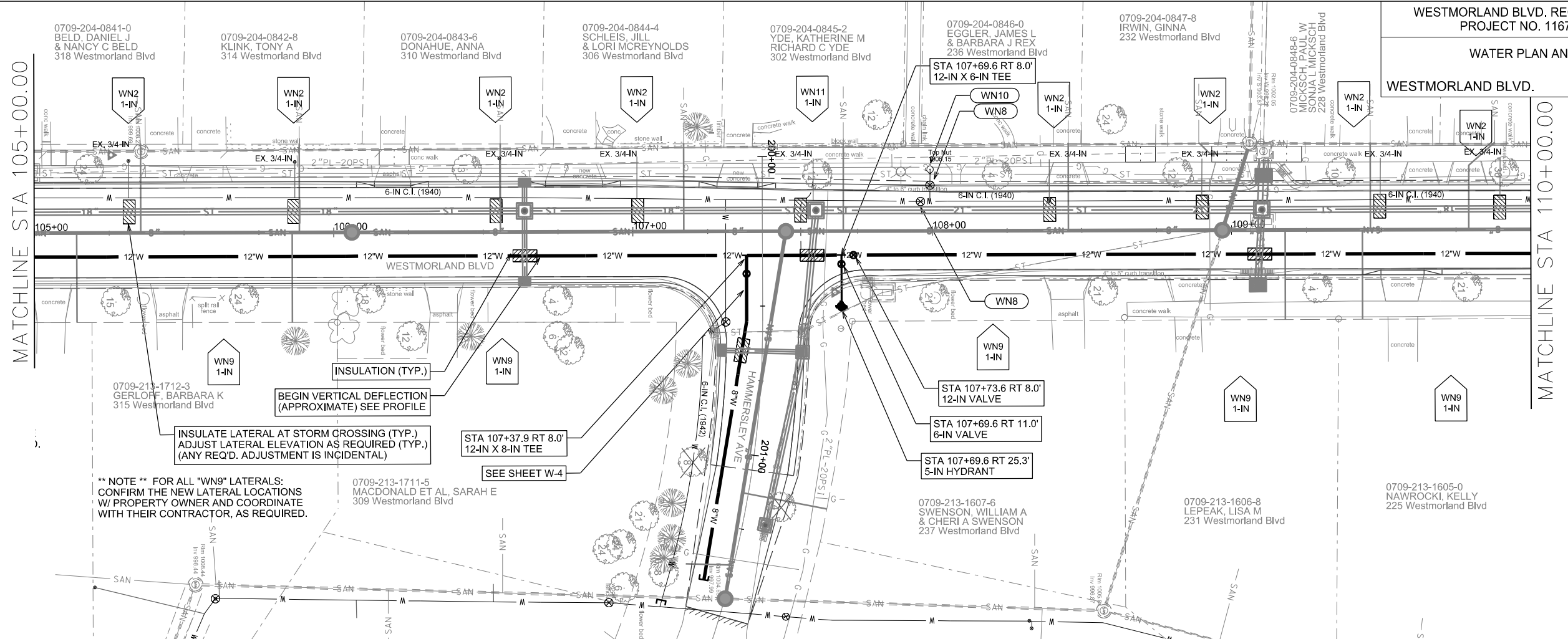
** NOTE ** FOR ALL "WN9" LATERALS:
 CONFIRM THE NEW LATERAL LOCATIONS
 W/ PROPERTY OWNER AND COORDINATE
 WITH THEIR CONTRACTOR, AS REQUIRED

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
WESTMORLAND BLVD. CITY OF MADISON

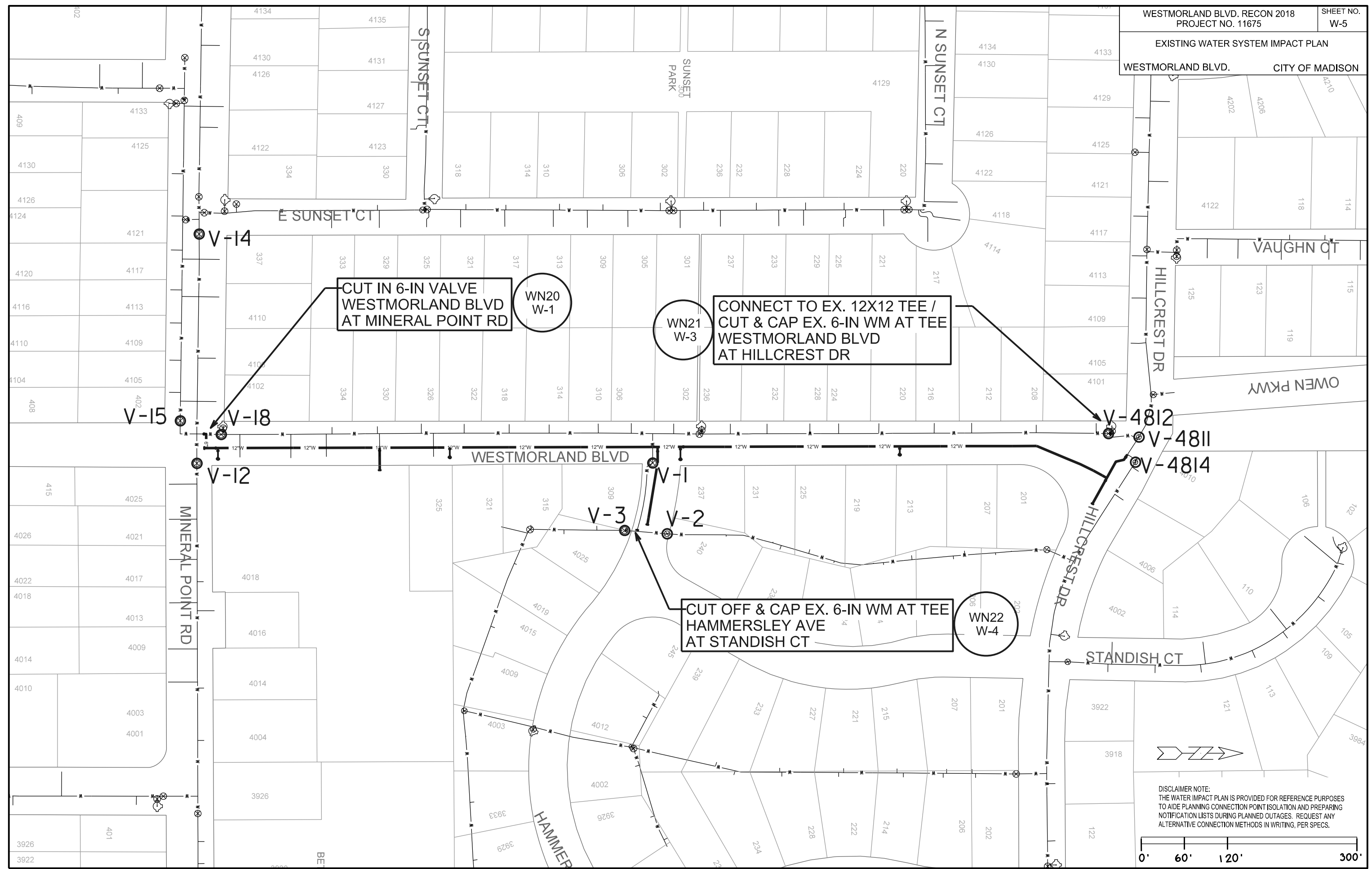


GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
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 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

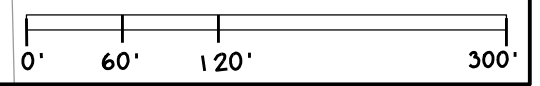


CUT IN 6-IN VALVE
WESTMORLAND BLVD
AT MINERAL POINT RD
WN20
W-1

CONNECT TO EX. 12X12 TEE /
CUT & CAP EX. 6-IN WM AT TEE
WESTMORLAND BLVD
AT HILLCREST DR
WN21
W-3

CUT OFF & CAP EX. 6-IN WM AT TEE
HAMMERSLEY AVE
AT STANDISH CT
WN22
W-4

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

CONSTRUCTION NOTES:

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

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

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

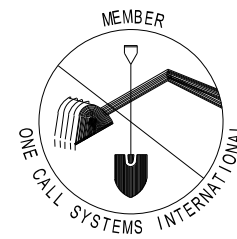
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- | | |
|---------------------------|-------------------------------------|
| 100-FT - 6-IN PIPE | 1 - 12-IN 22-1/2° BEND |
| 130-FT - 8-IN PIPE | 1 - 8-IN 11-1/4° BEND |
| 1360-FT - 12-IN PIPE | |
| 1800-FT POLYWRAP | 1 - 12-IN MJ PLUG |
| 4 - 5-IN HYDRANT ASSEMBLY | 1 - 12-IN CAP |
| 6 - 6-IN VALVE & BOX | 3 - 6-IN MJ CAP |
| 1 - 8-IN VALVE & BOX | 1 - 8-IN MJ CAP |
| 4 - 12-IN VALVE & BOX | |
| 6 - 12-IN X 6-IN TEE | 184-FT - INSULATION (INC. LATERALS) |
| 1 - 12-IN X 8-IN TEE | COPPER TUBING AS REQ'D. |
| 1 - 12-IN X 12-IN TEE | |
| 1 - 6-IN 90° BEND | |
| 6 - 12-IN 45° BEND | |

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

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

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



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

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:

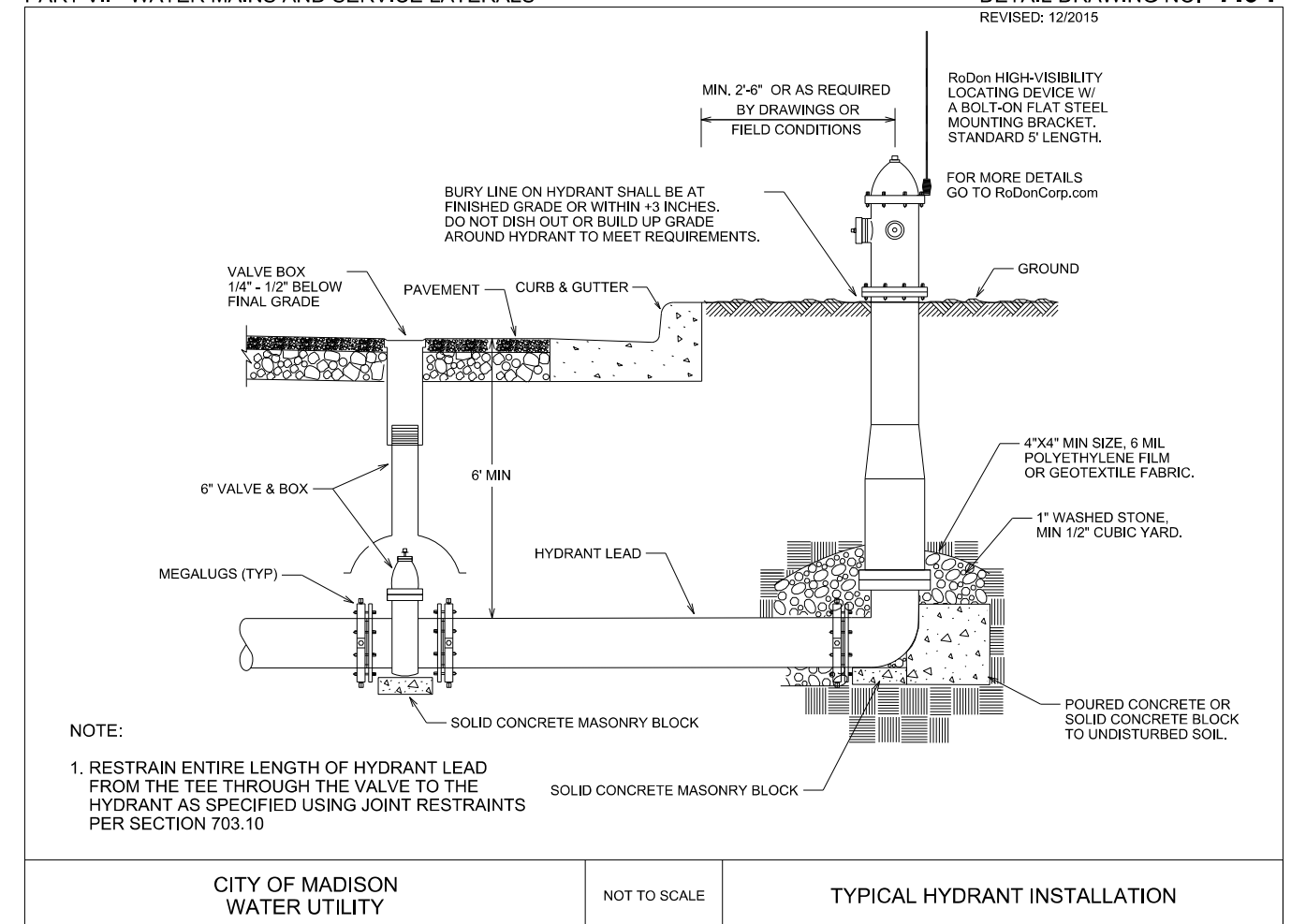
** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- 2 - 5-IN HYDRANT
- 1 - 12-IN PLUG

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. 7.04

REVISED: 12/2015



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

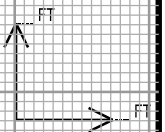
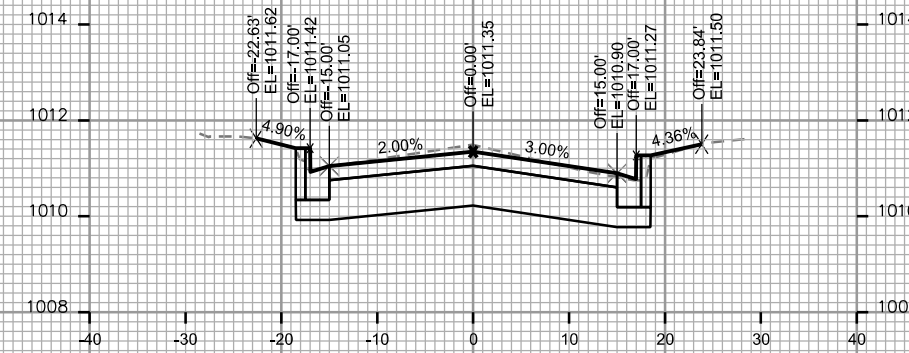
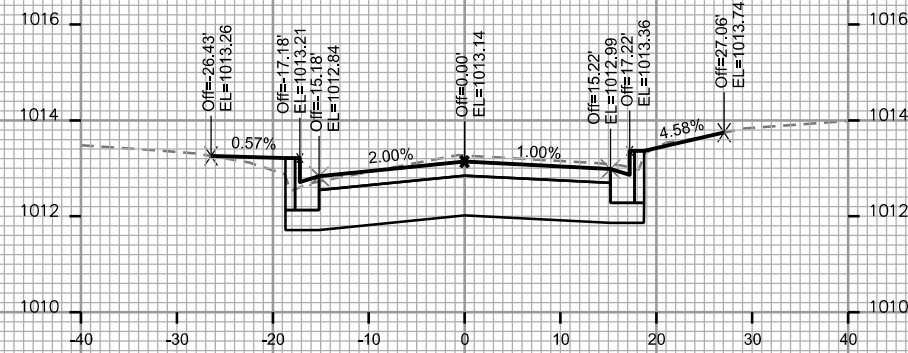
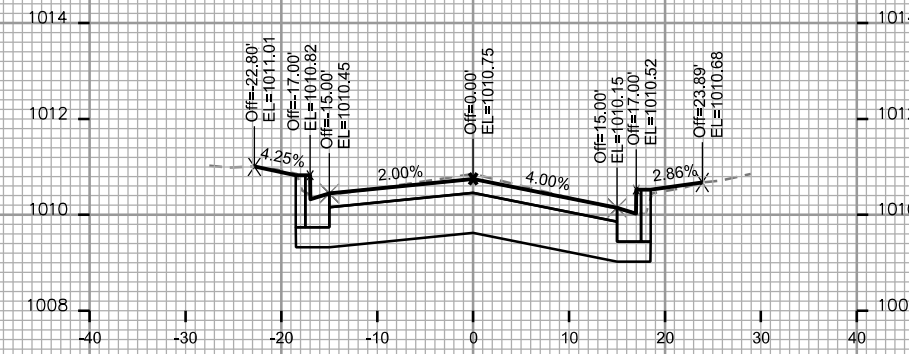
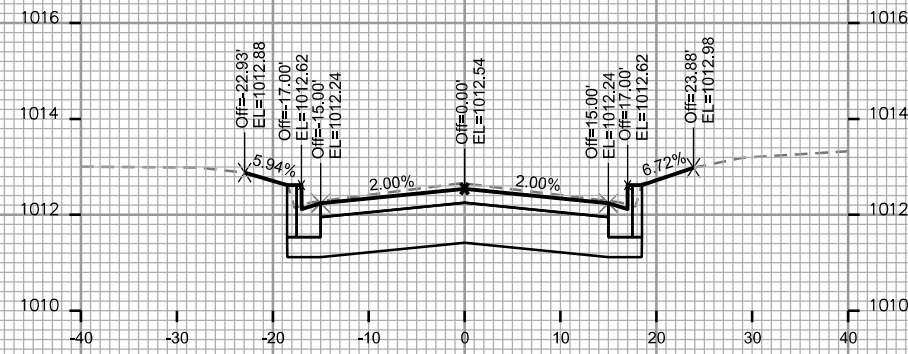
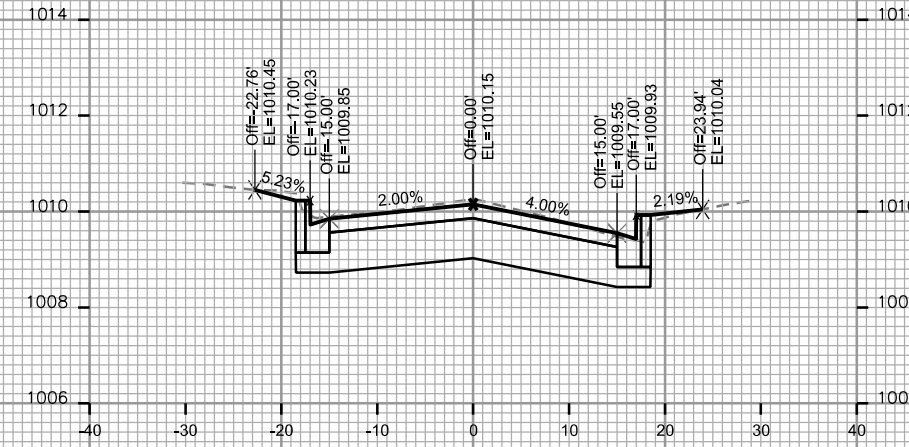
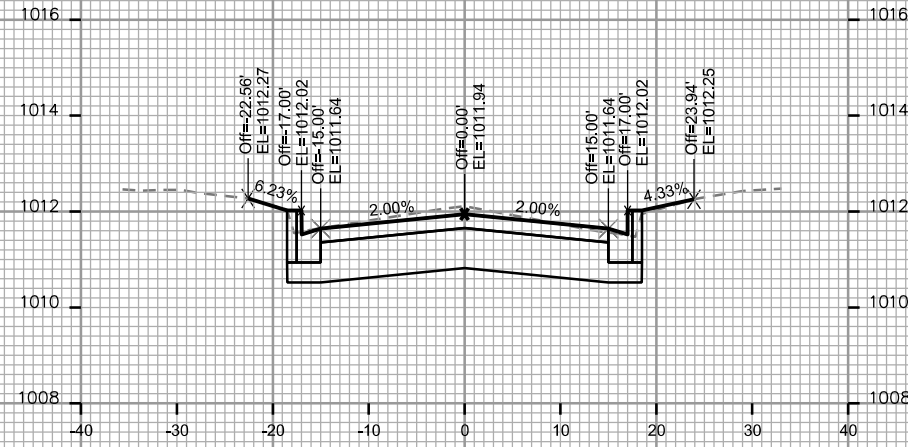
CROSS SECTIONS
WESTMORLAND BLVD. CITY OF MADISON

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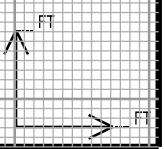
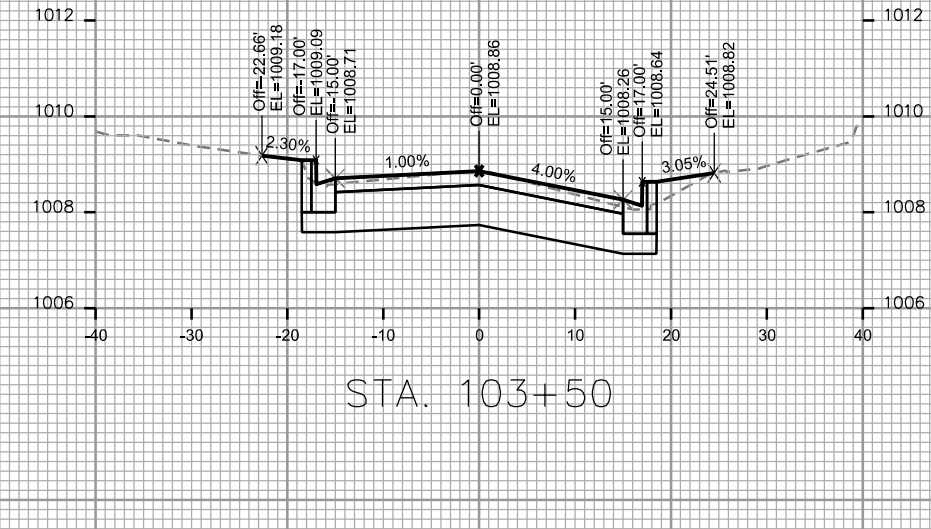
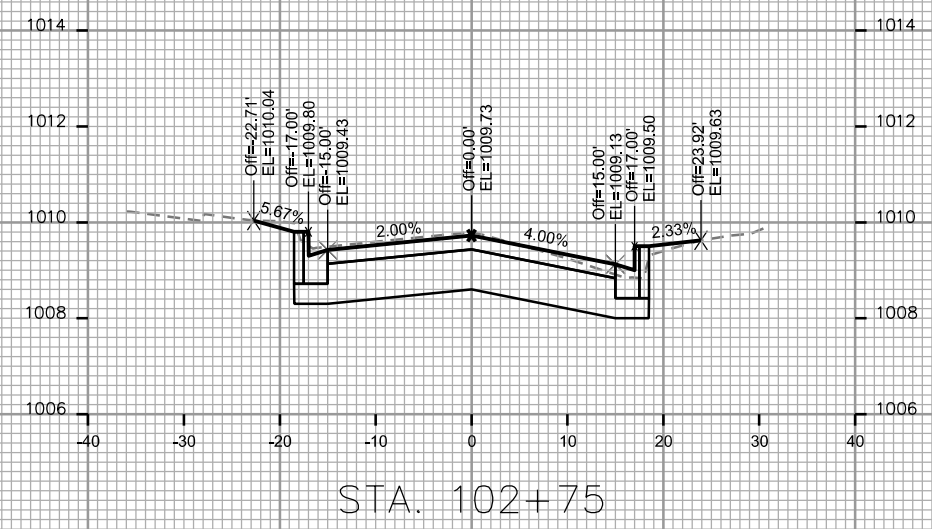
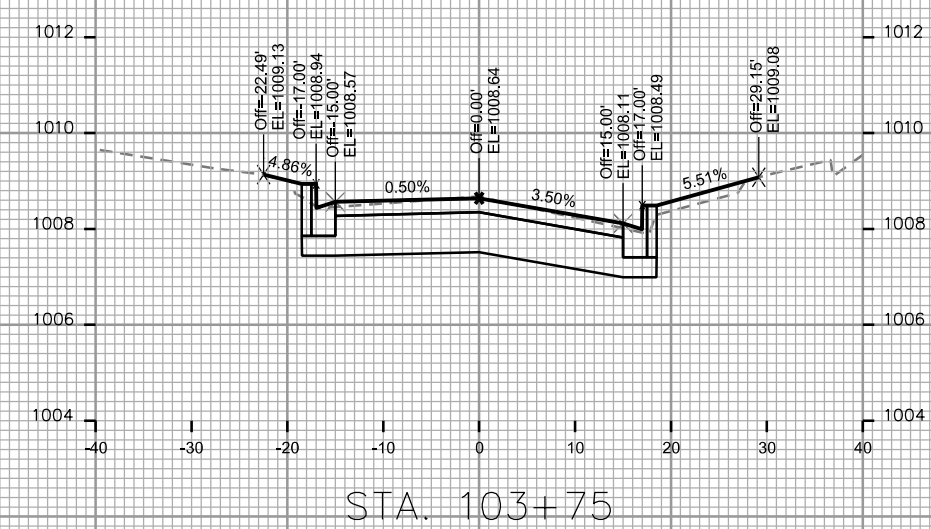
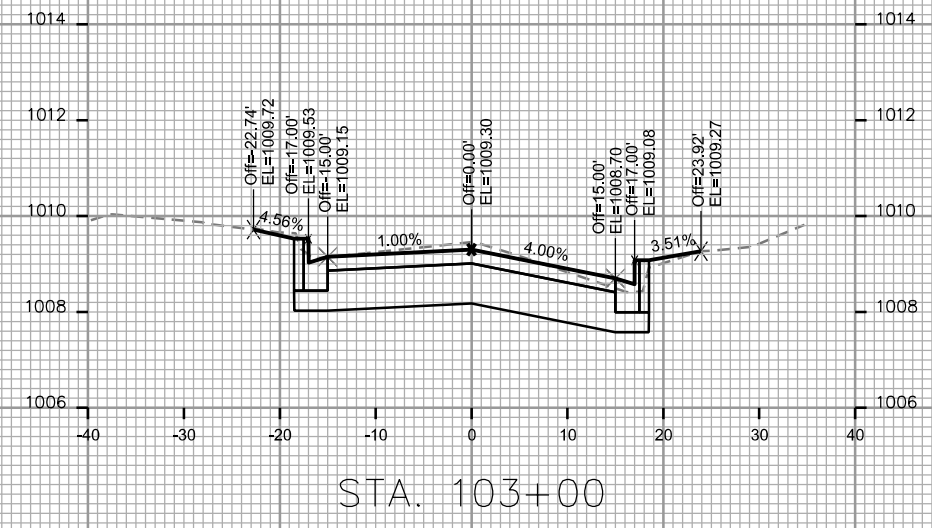
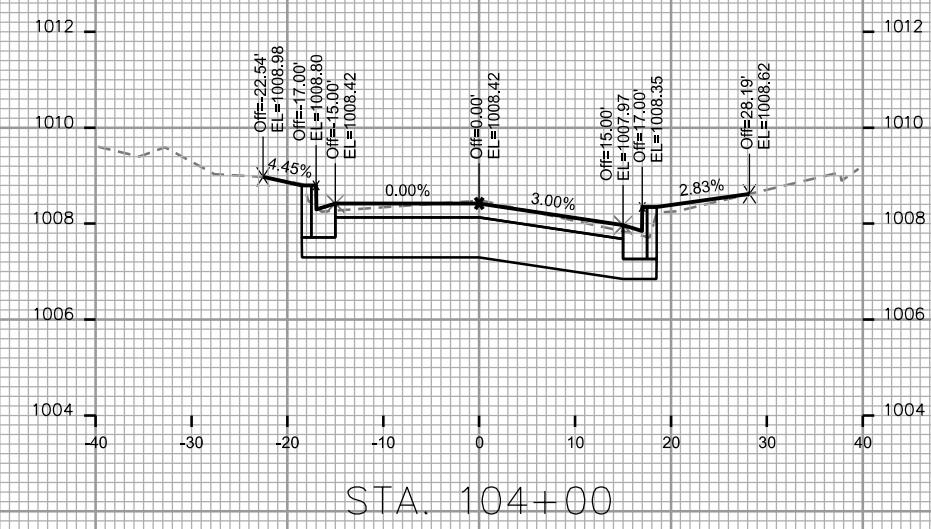
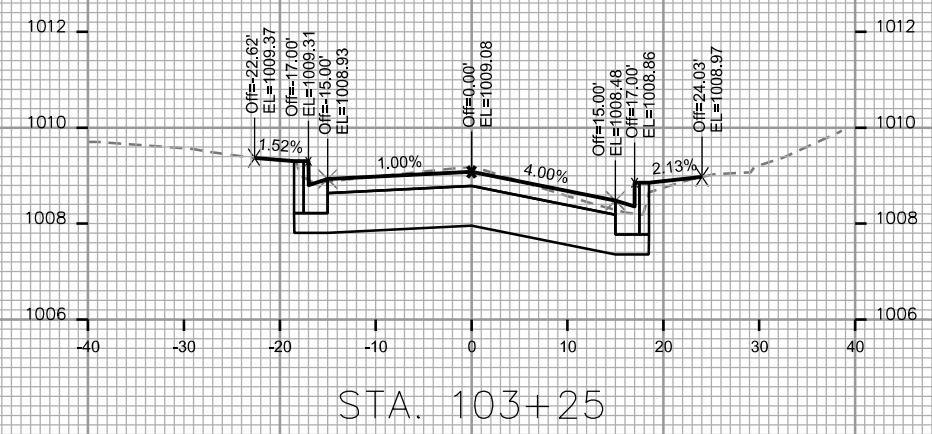
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CROSS SECTIONS

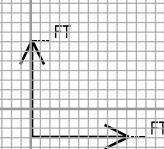
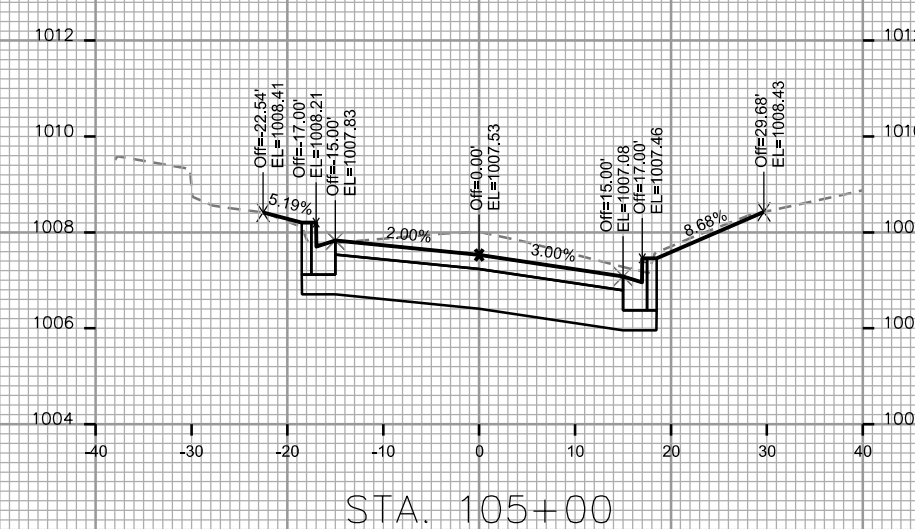
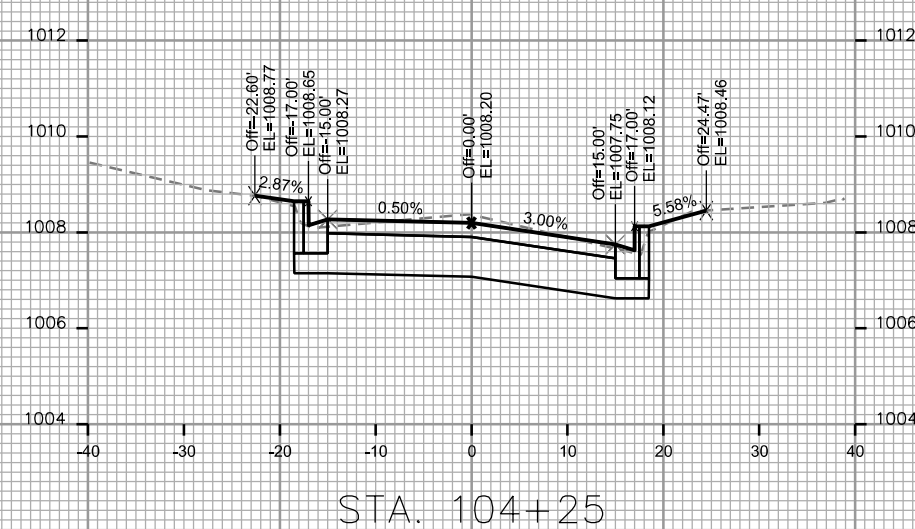
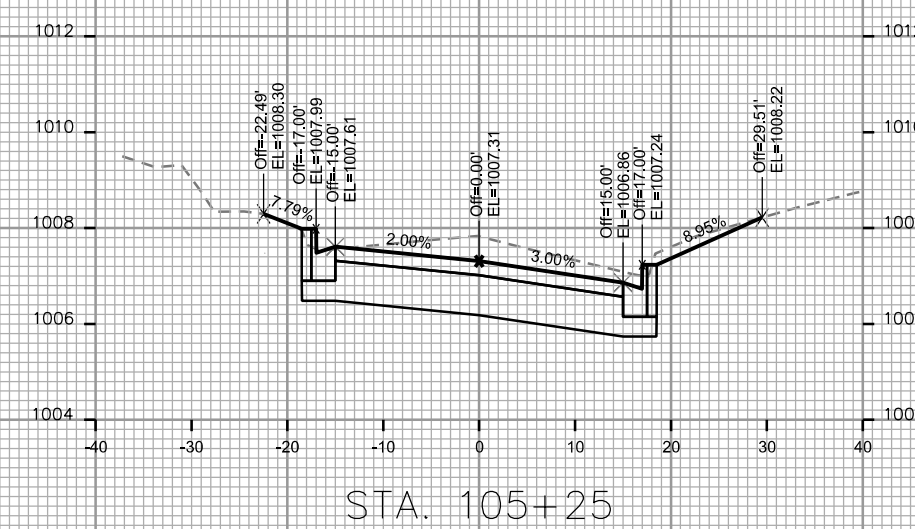
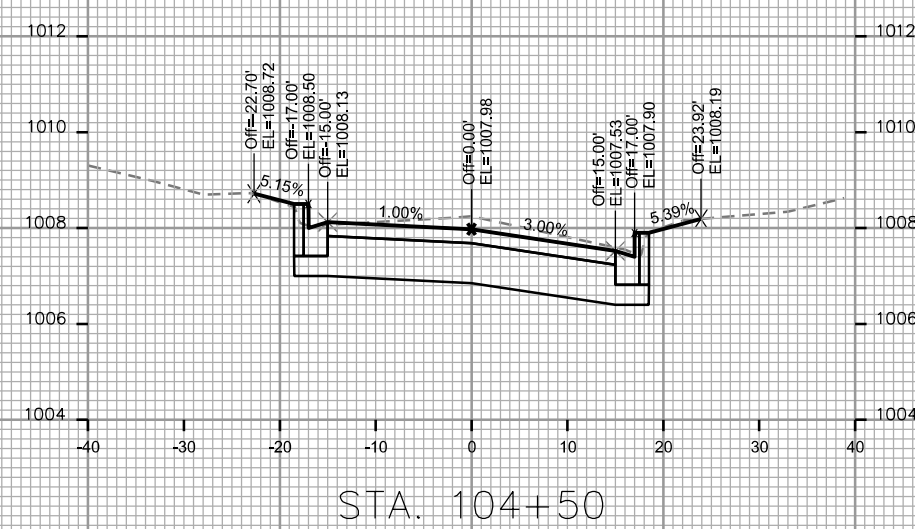
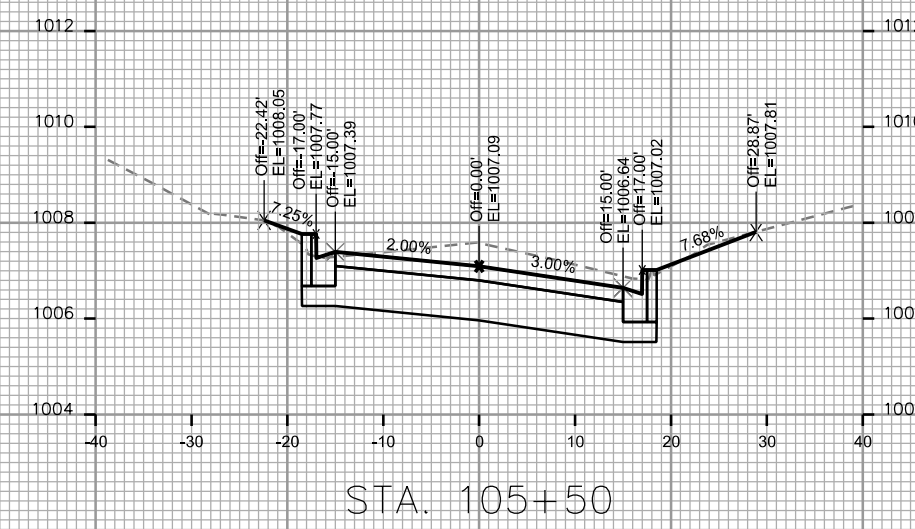
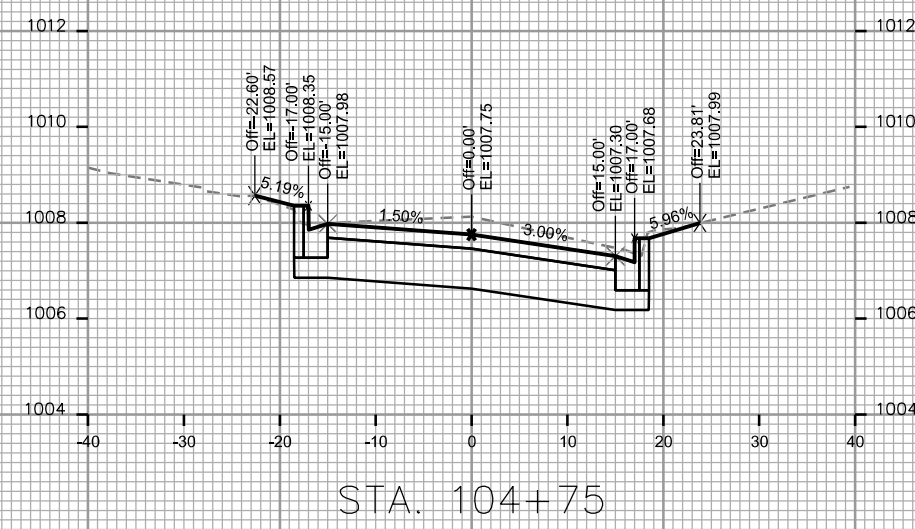
WESTMORLAND BLVD. CITY OF MADISON

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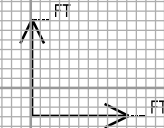
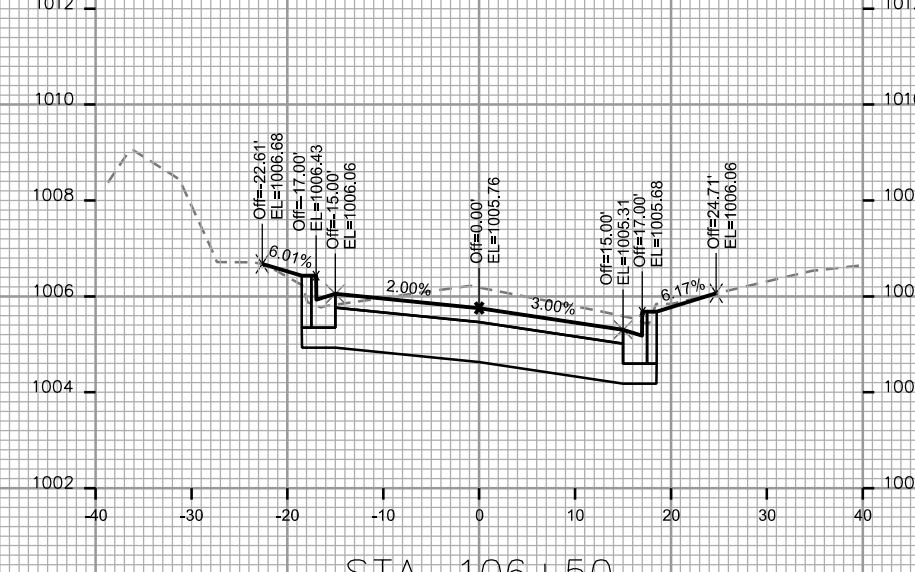
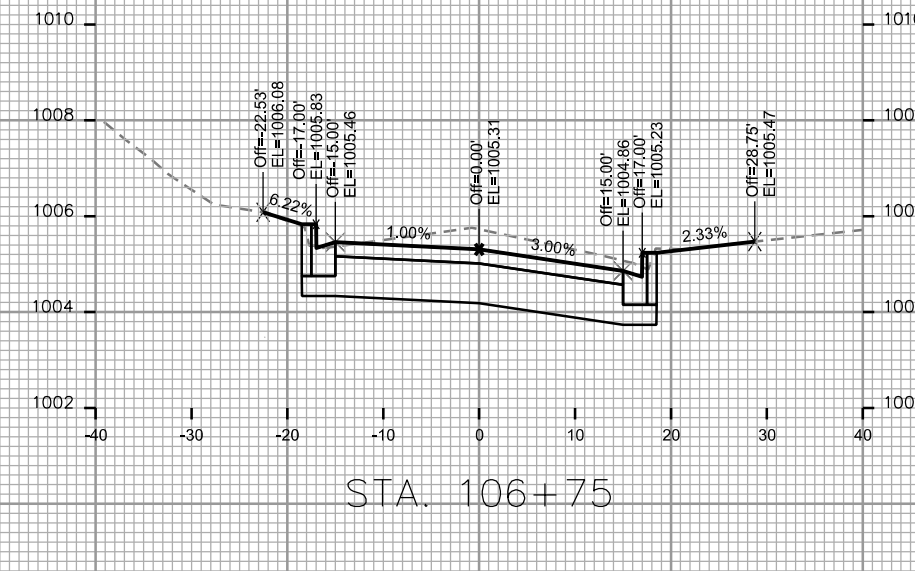
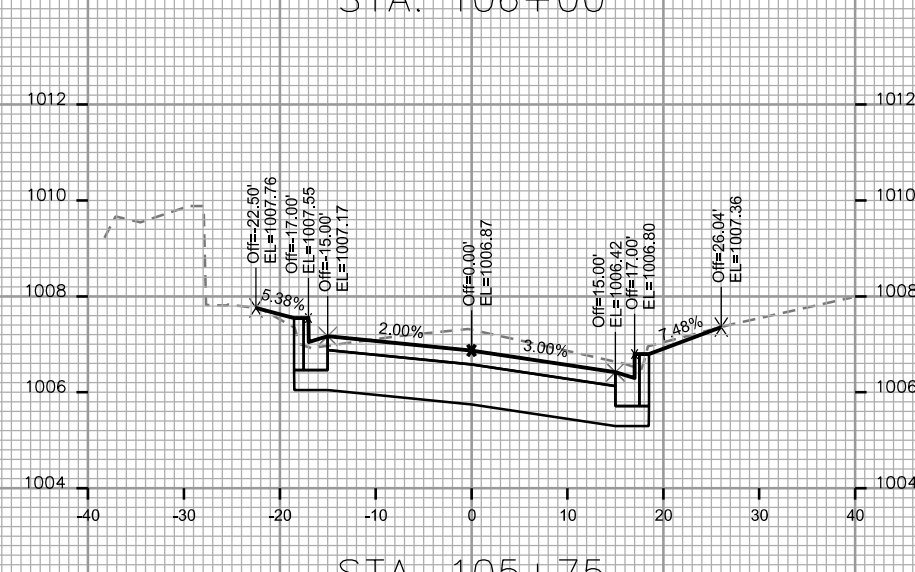
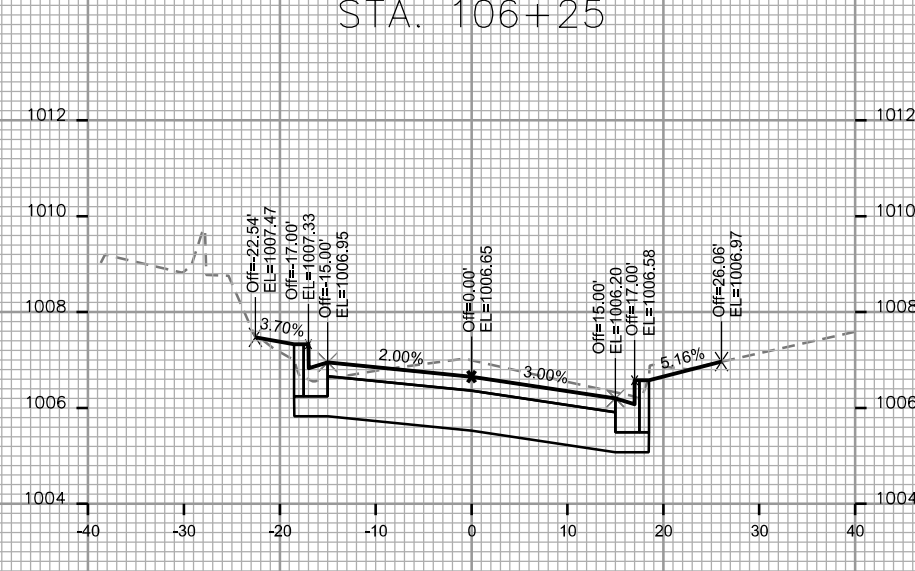
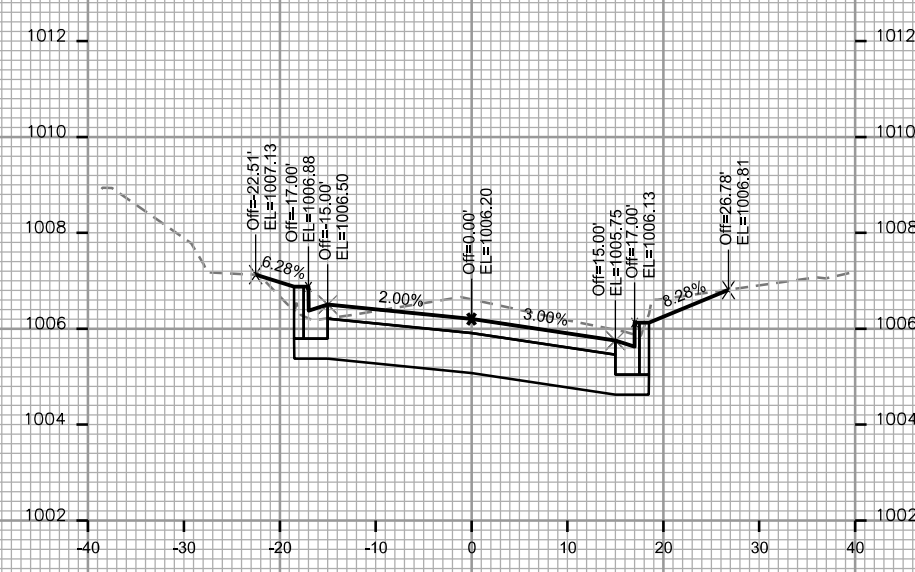
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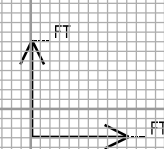
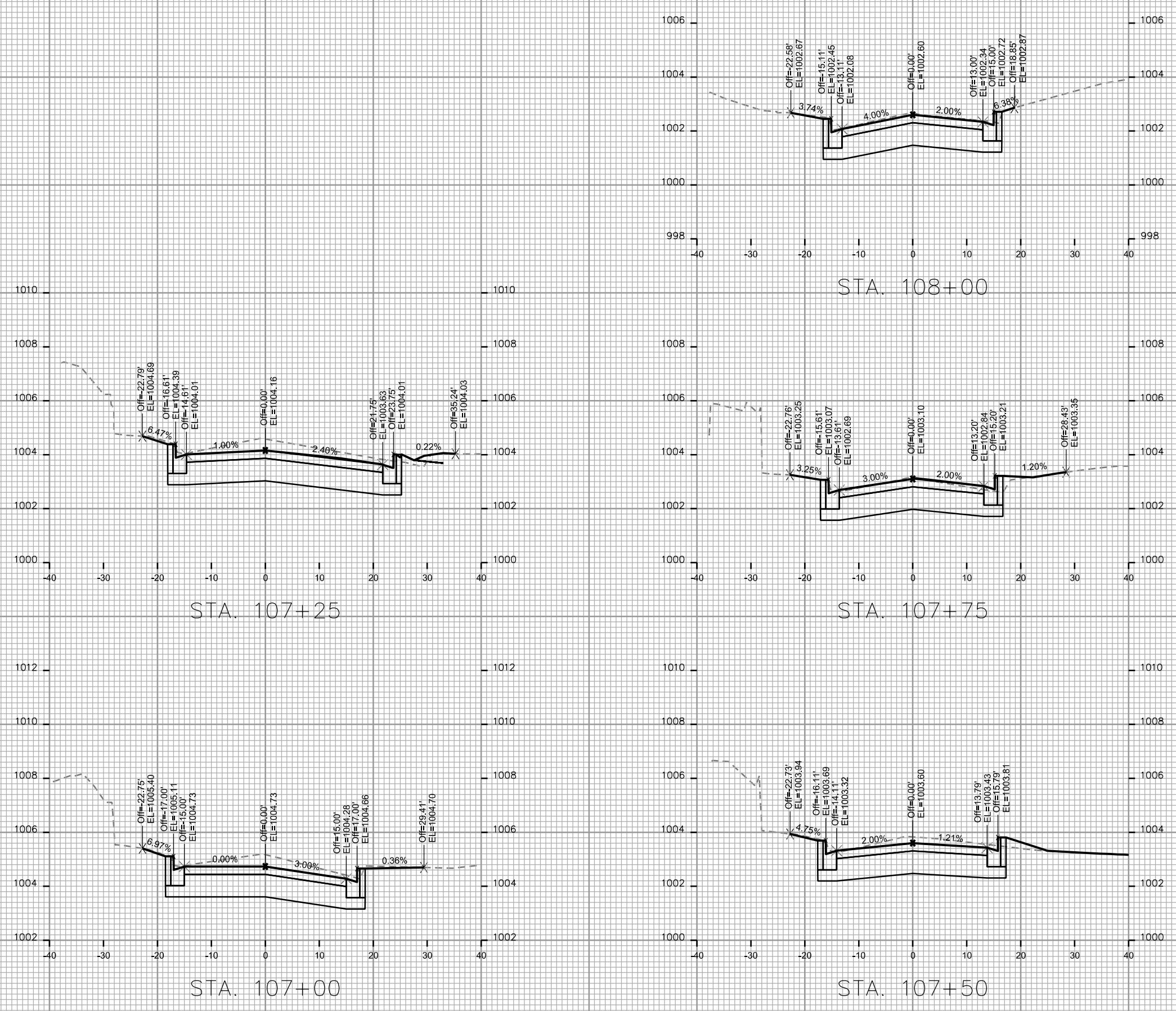
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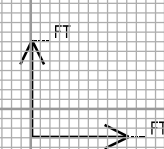
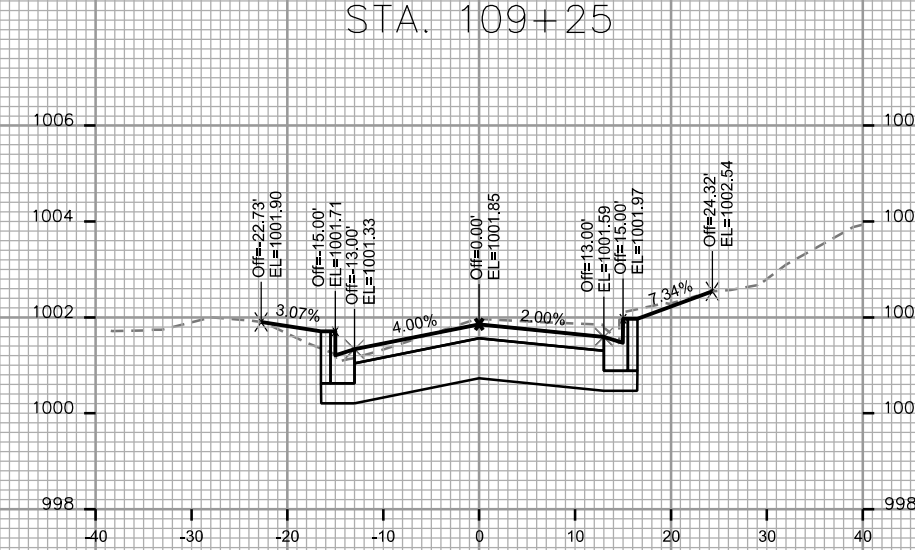
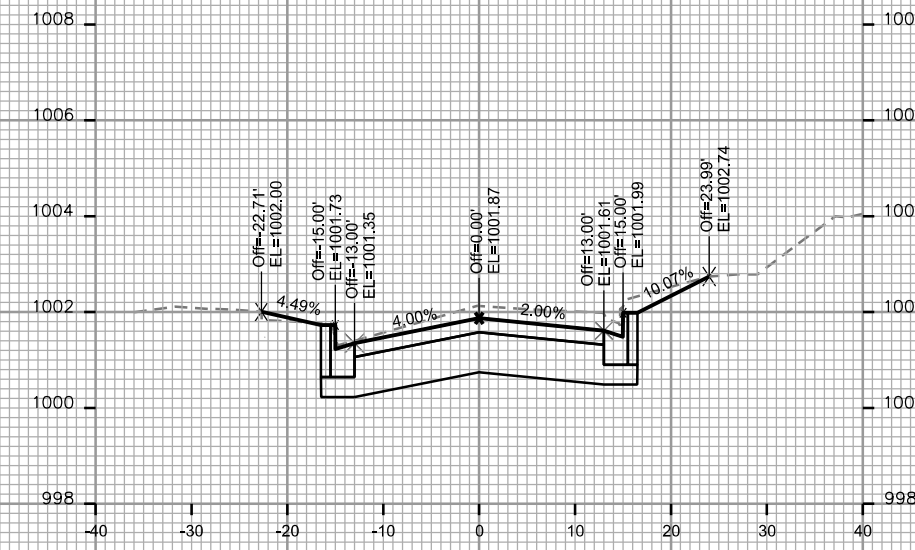
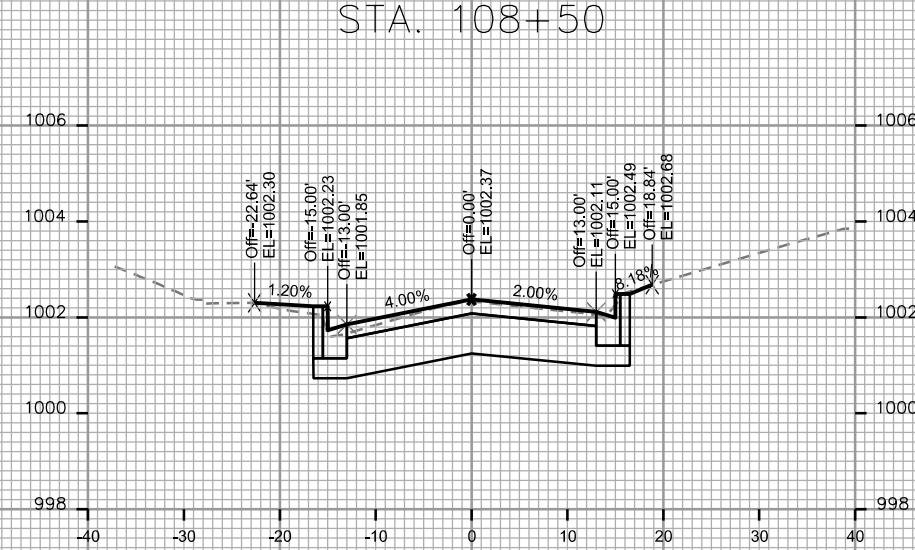
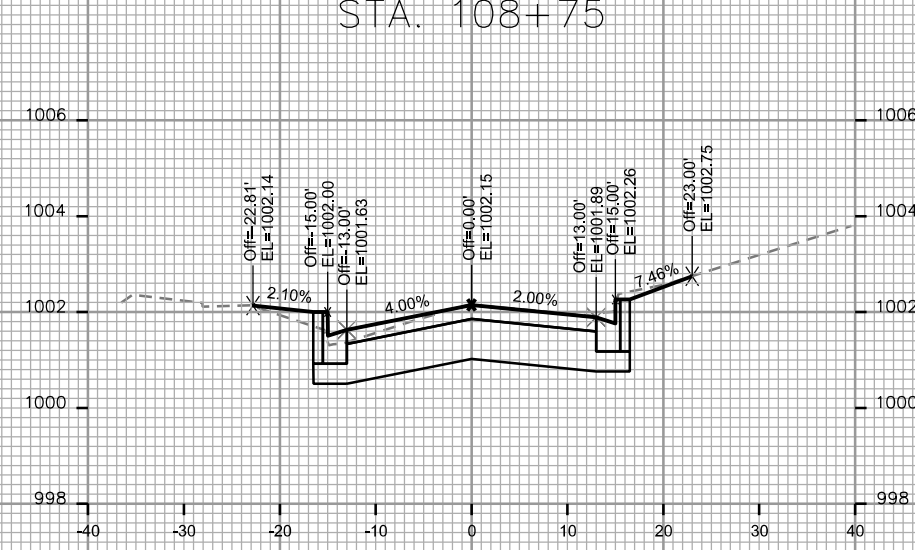
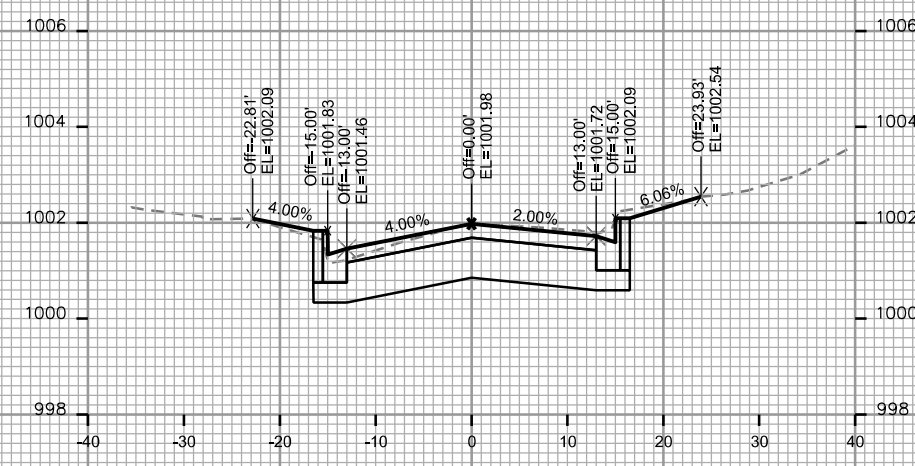
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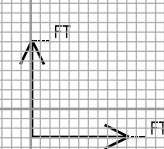
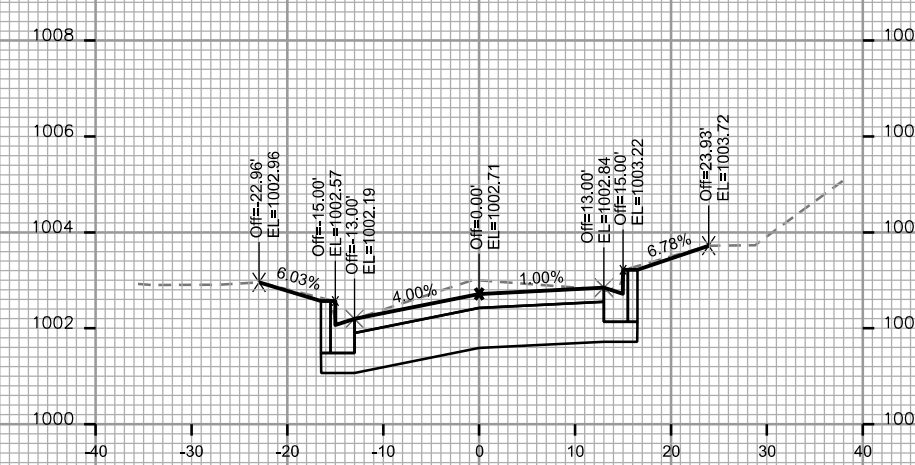
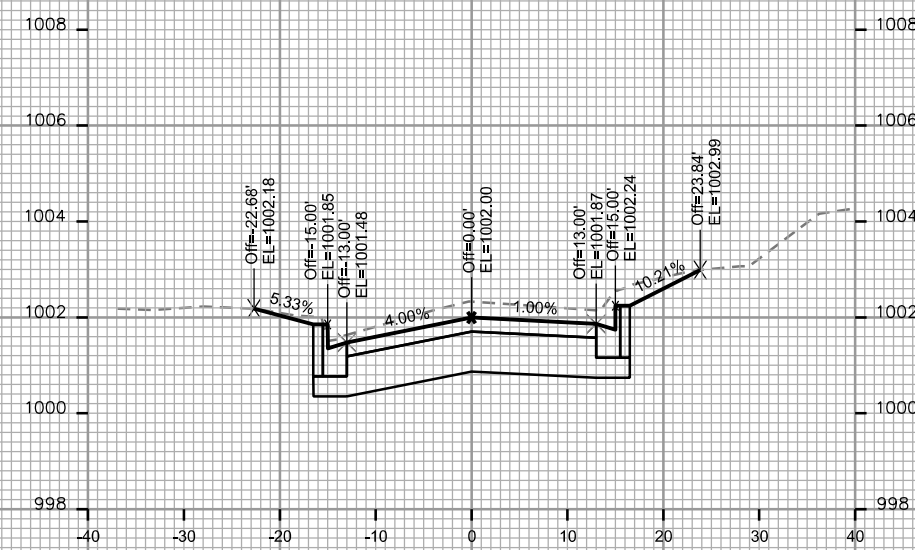
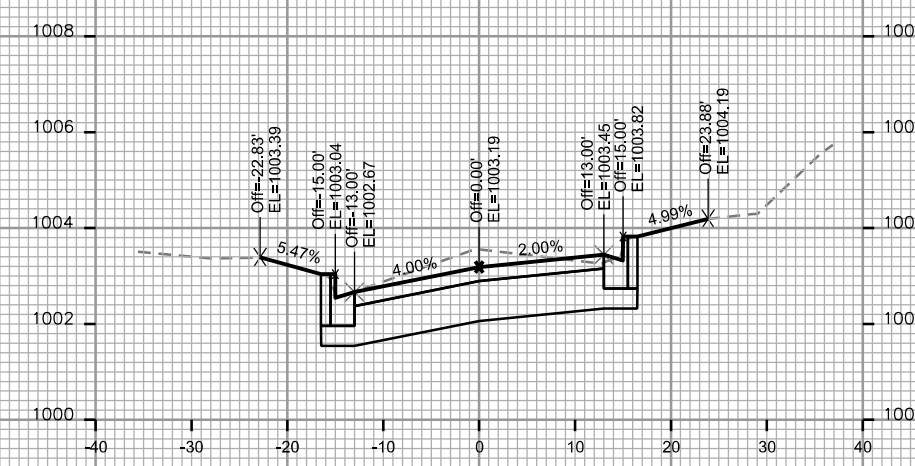
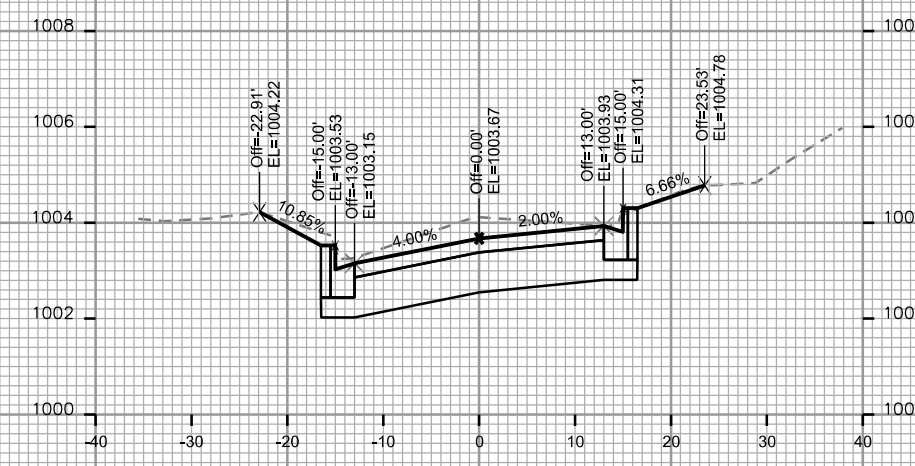
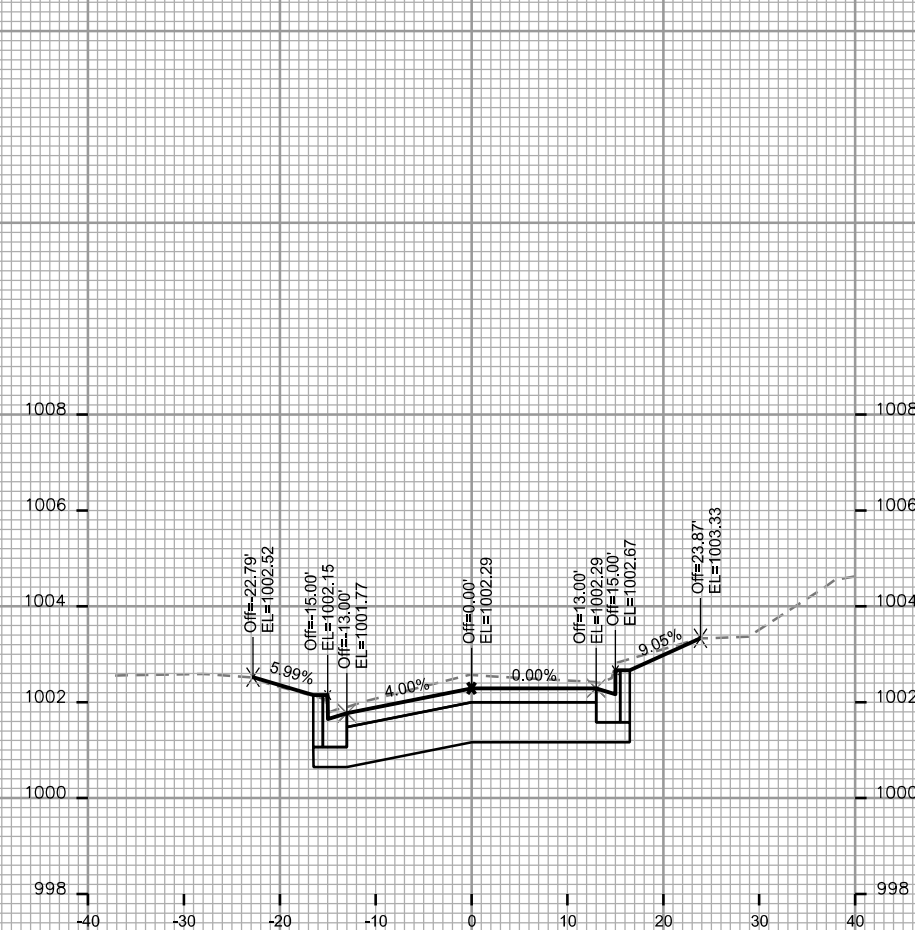
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CROSS SECTIONS

WESTMORLAND BLVD.

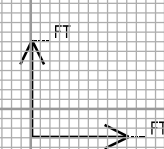
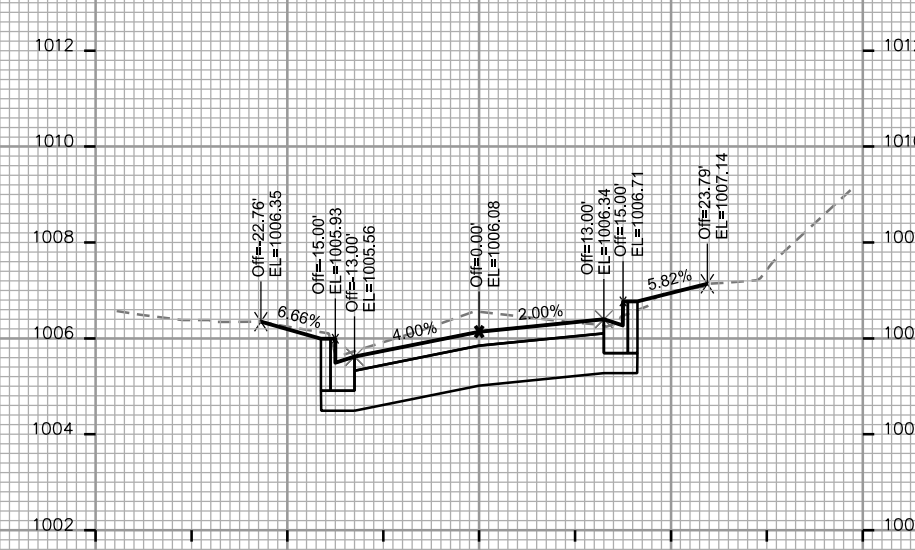
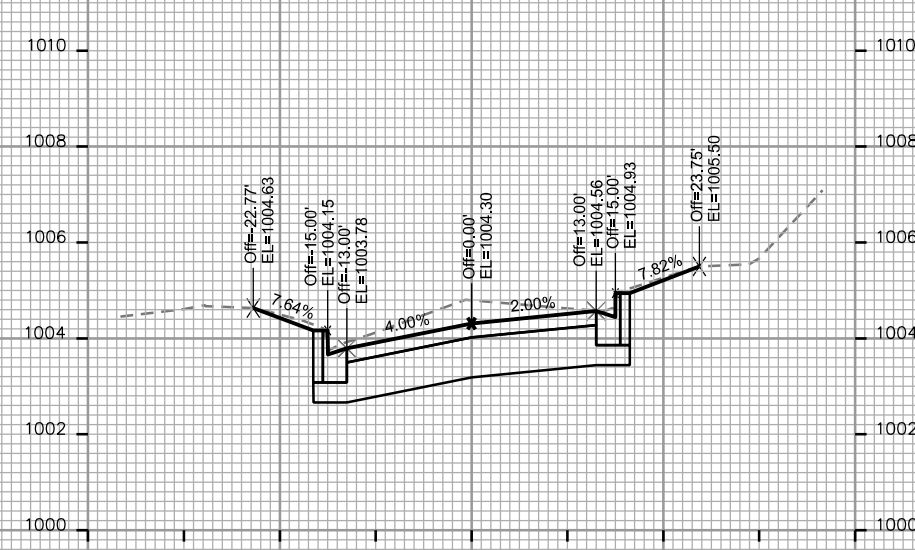
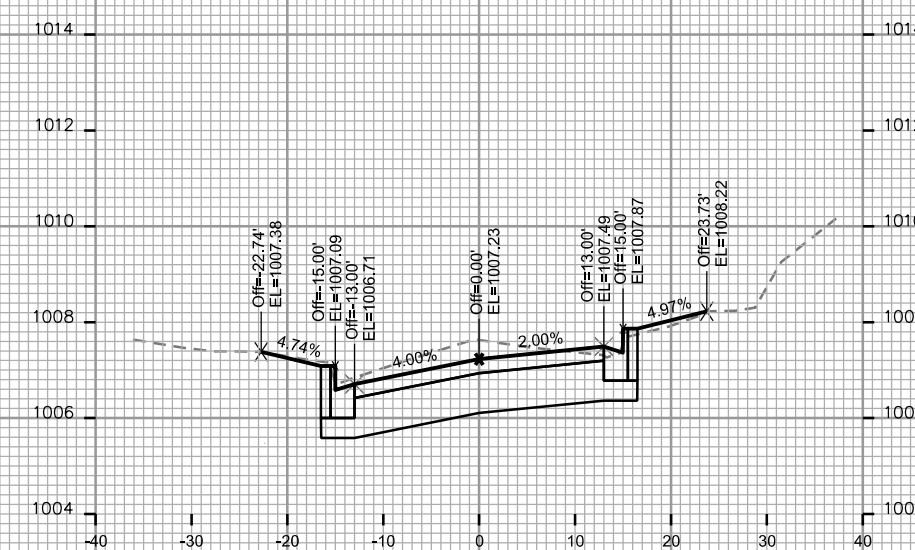
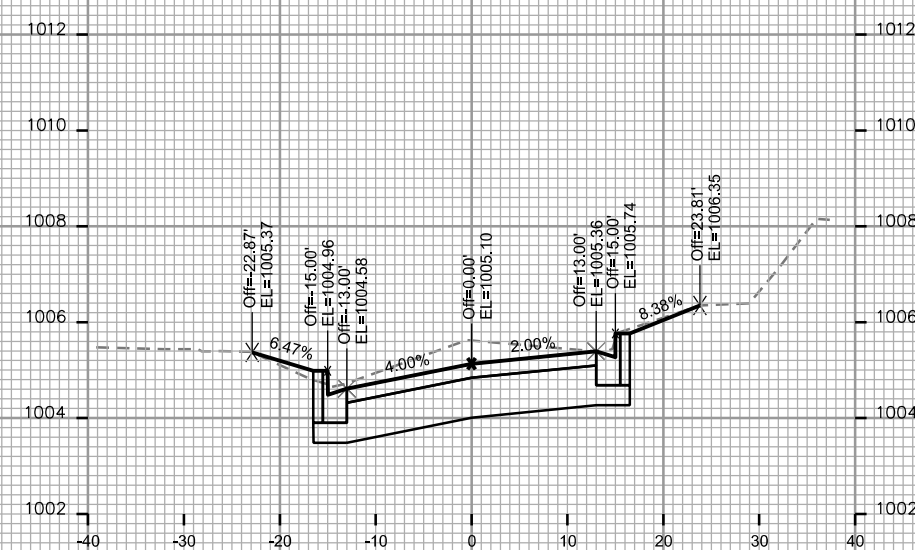
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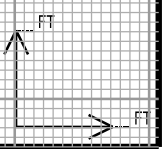
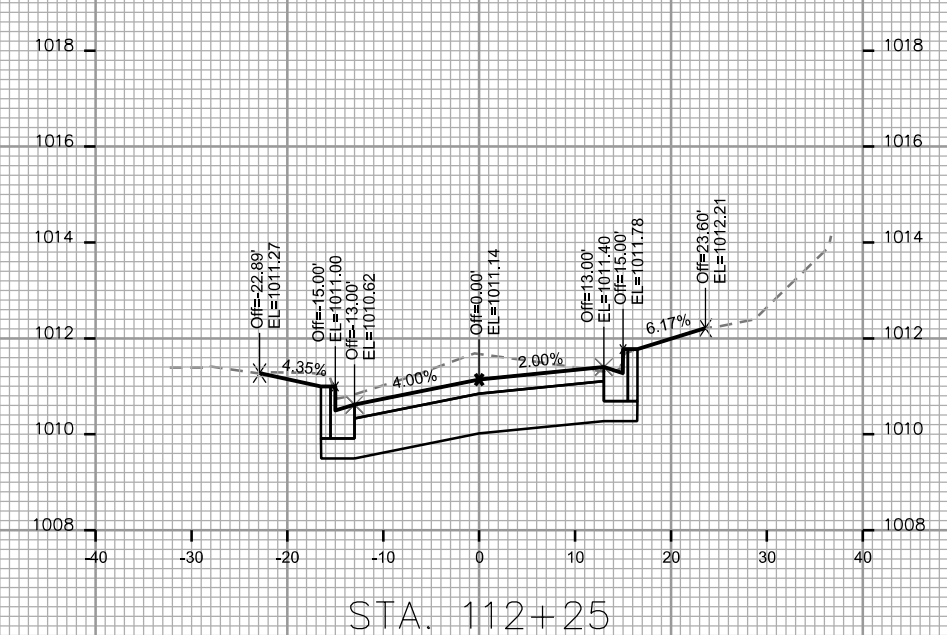
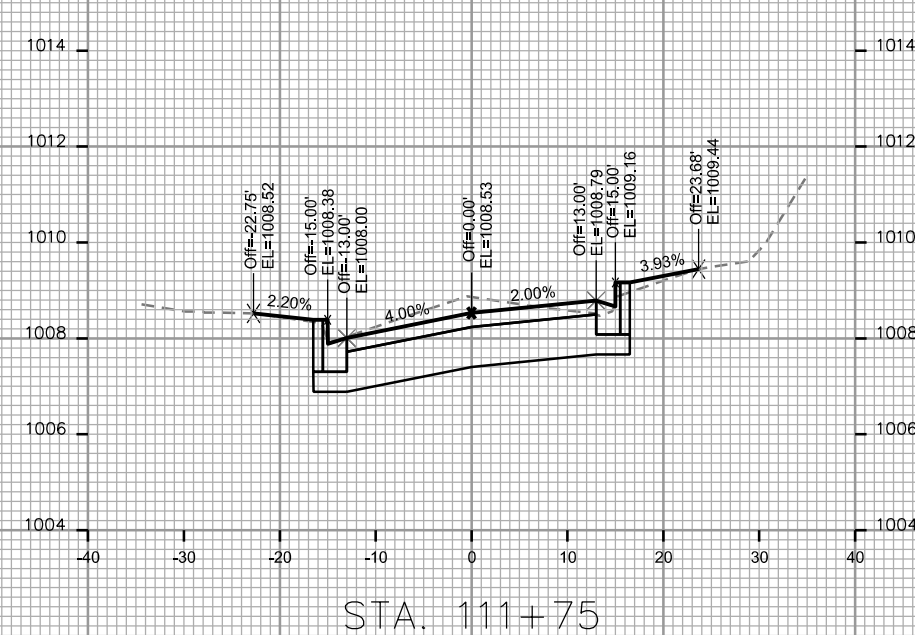
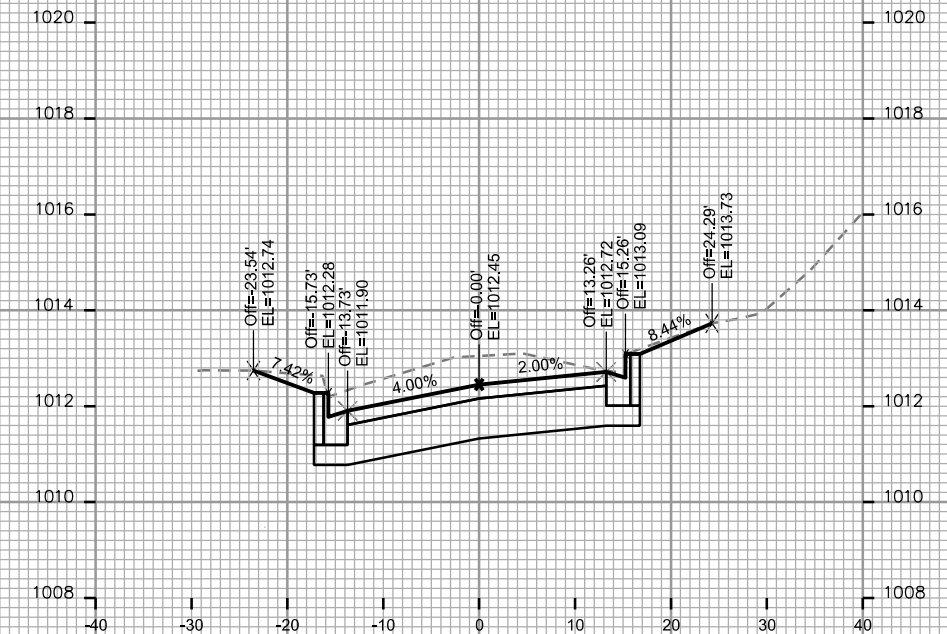
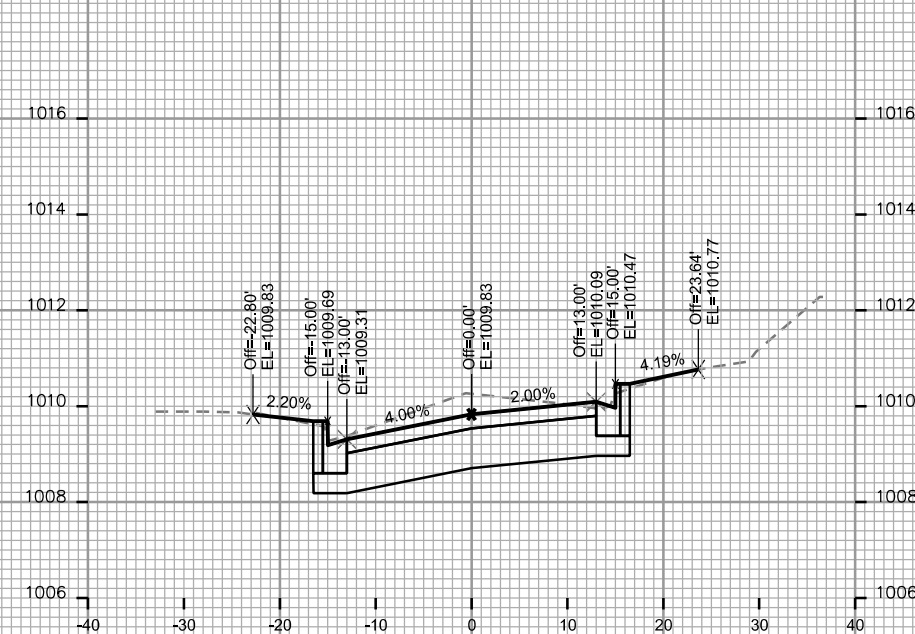
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WESTMORLAND BLVD.

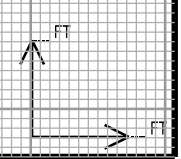
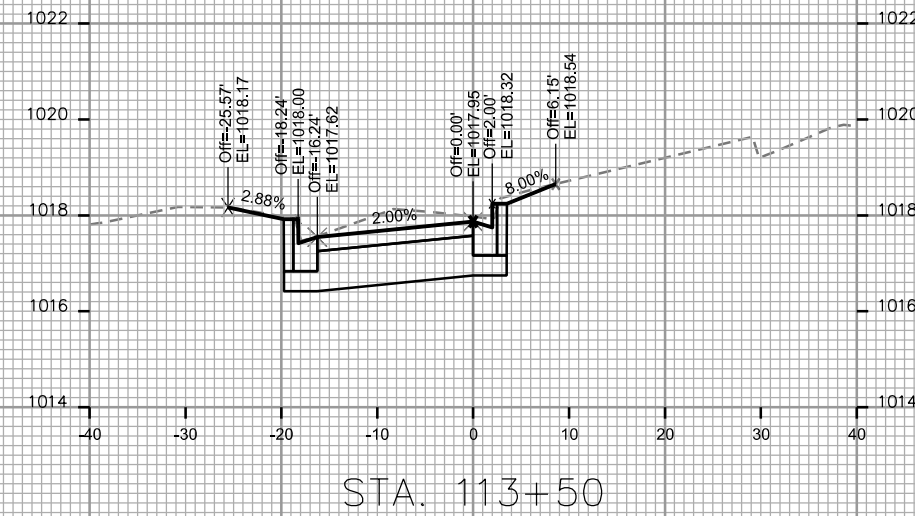
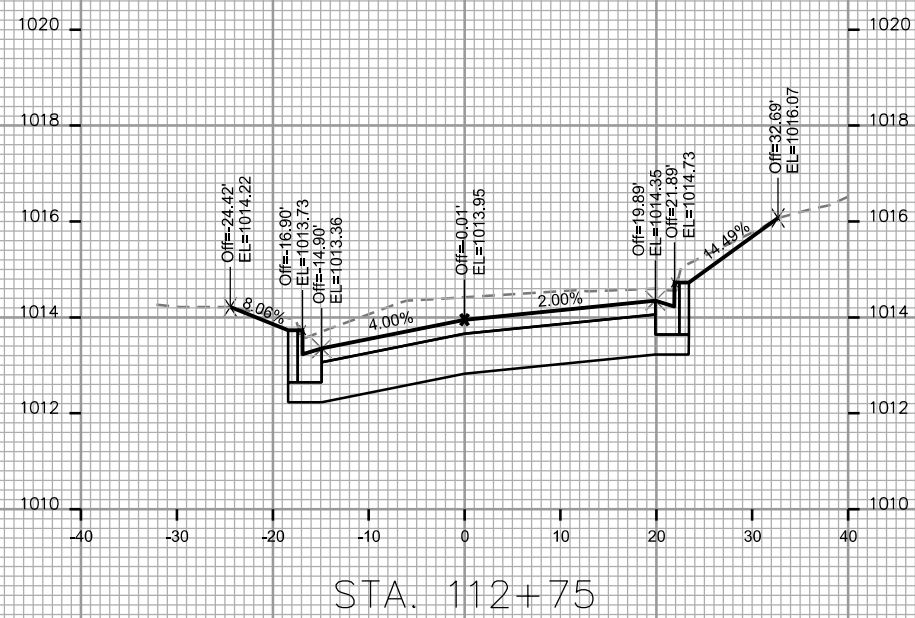
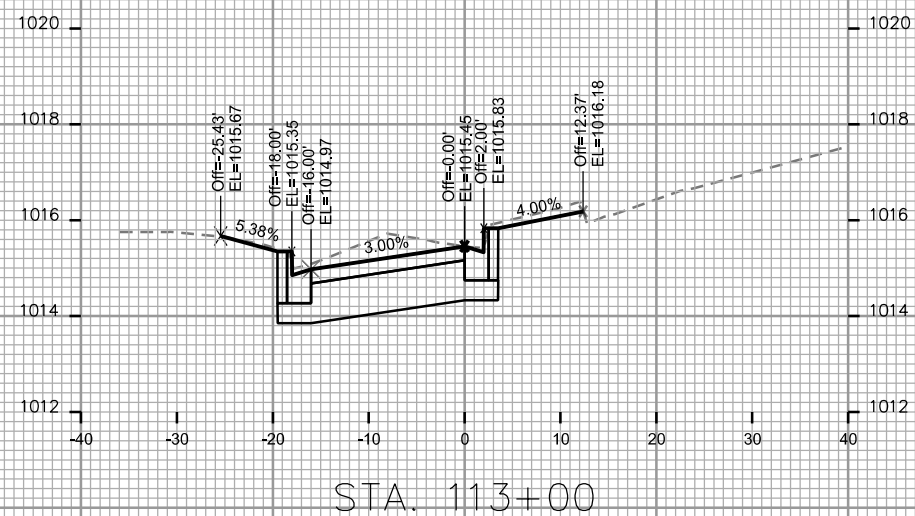
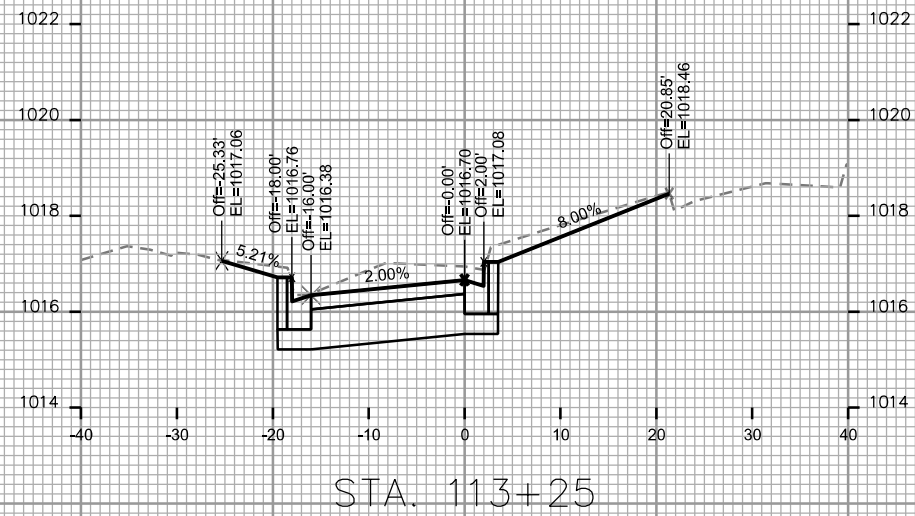
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CROSS SECTIONS

HAMMERSLEY AVE.

CITY OF MADISON

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