

Madison, Wisconsin


CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED
 JANUARY 8, 2019
 BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

 City Engineer 1/25/19
 Date

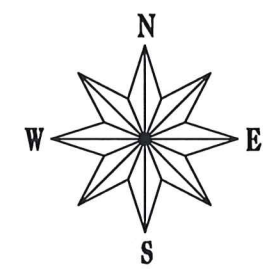
INDEX OF SHEETS

SHEET NO.	TITLE
1	1
D-1	DETAIL
EC1-EC3	EROSION CONTROL
P1-P3	PLAN & PROFILE
U1-U3	SANITARY SEWER PLAN & PROFILE
U4	SANITARY SEWER SCHEDULE
U5	STORM SEWER SCHEDULE
PM1-PM2	PAVEMENT MARKING
X1-X8	CROSS SECTIONS

HAYWOOD DRIVE RECONSTRUCTION

ASSESSMENT DISTRICT - 2019

CITY PROJECT NO. 11452
 8297

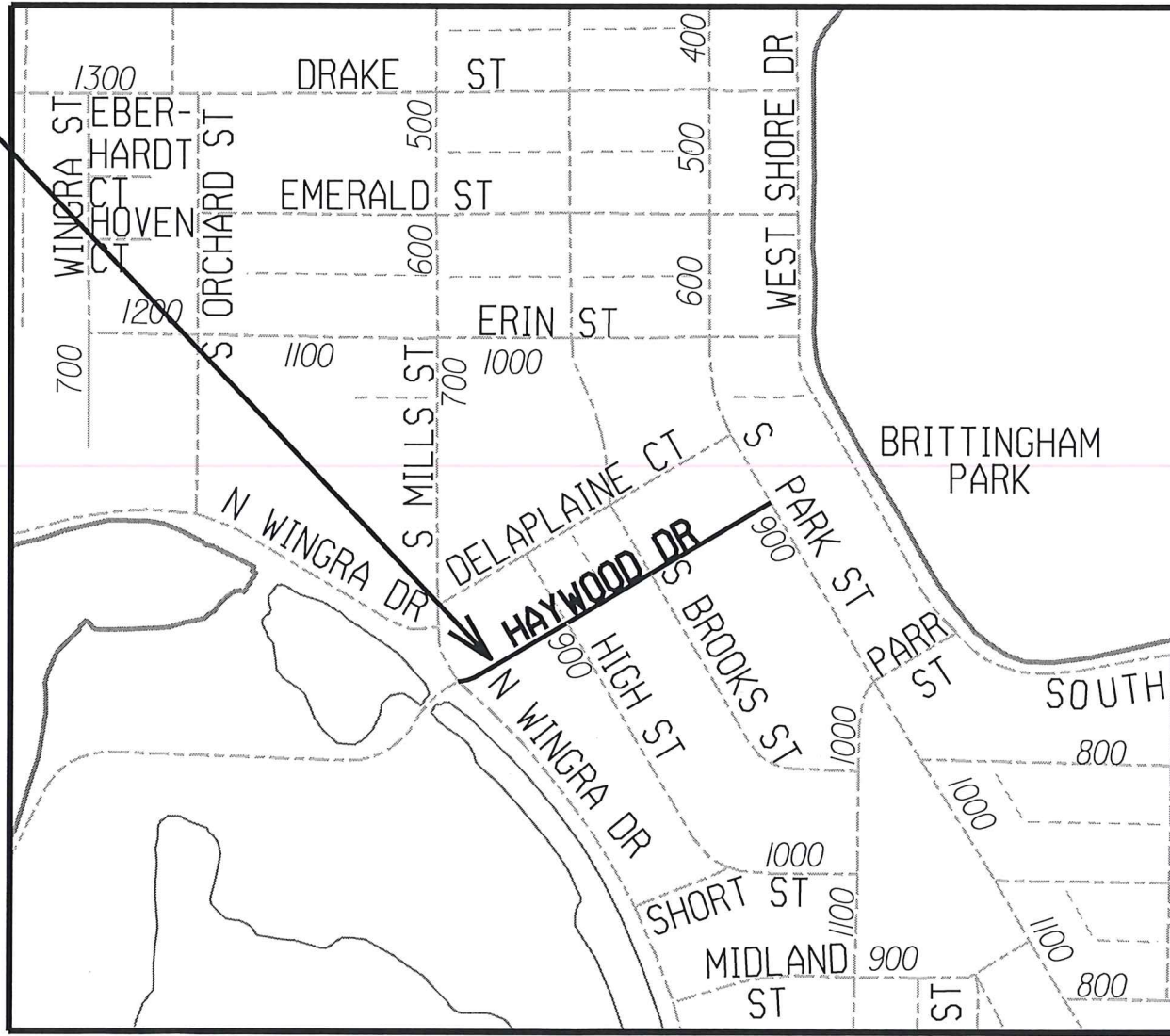


CONSTRUCTION PROJECT LOCATION

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊥
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣



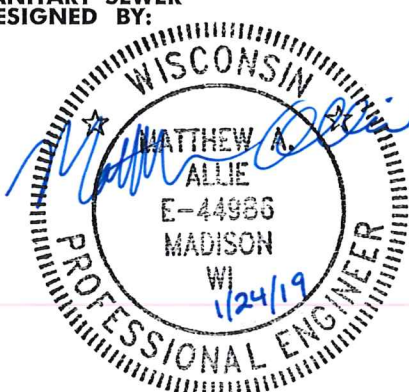
NOTES:
 ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.
 SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

EARTH WORK SUMMARY:

EXCAVATION CUT(MEASURED PLAN QUANTITY).....	2025.00 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....	190.00 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....	2215.00 C.Y.

STREET DESIGNED BY:

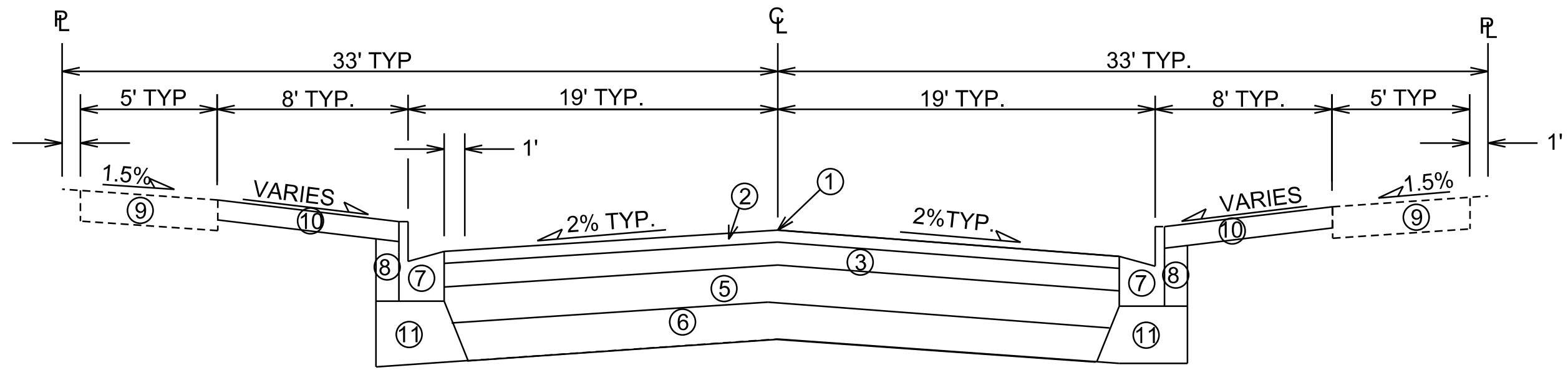
 STEVEN M. SONNTAG
 E-38891
 MADISON WI
 1/24/2019
 PROFESSIONAL ENGINEER

SANITARY SEWER DESIGNED BY:

 MATTHEW A. ALLIE
 E-44986
 MADISON WI
 1/24/19
 PROFESSIONAL ENGINEER

STORM SEWER DESIGNED BY:

 MATTHEW A. ALLIE
 E-44986
 MADISON WI
 1/24/19
 PROFESSIONAL ENGINEER

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



TYPICAL SECTION
HAYWOOD DRIVE

- ① POINT REFERRED TO ON PROFILE
- ② 2.0" BITUMINOUS UPPER LAYER, 4 LT 58-28 S
- ③ 2.5" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ REMOVE & REPLACE CONCRETE CURB & GUTTER AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑦ FILL, INCIDENTAL WHERE CURB IS REPLACED
- ⑧ 5" CONCRETE SIDEWALK, REMOVE & REPLACE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER
- ⑨ RESTORE DISTURBED AREAS W/ 6" TOPSOIL, SEED & MAT
- ⑩ 4" MIN GRADATION 2 CRUSHED AGGREGATE AS NECESSARY FOR CURB REPLACEMENT

* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.

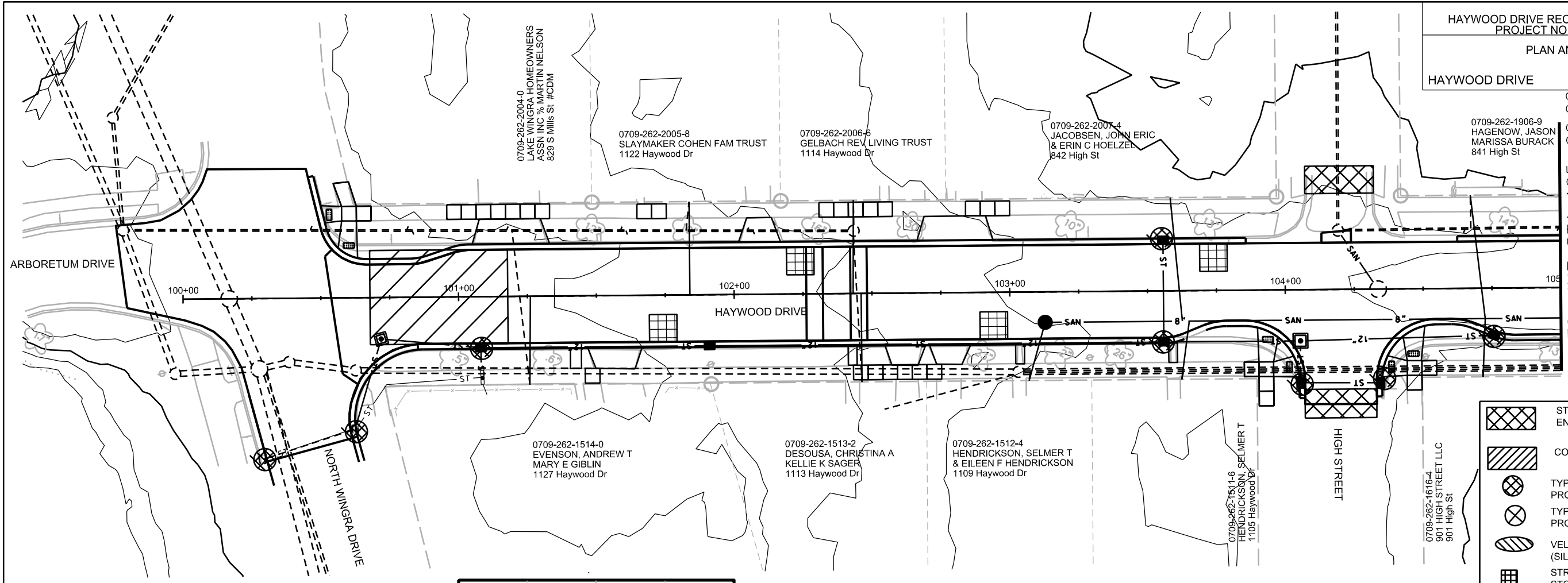
TYPICAL SECTION NOT TO SCALE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

EROSION CONTROL NOTES:

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

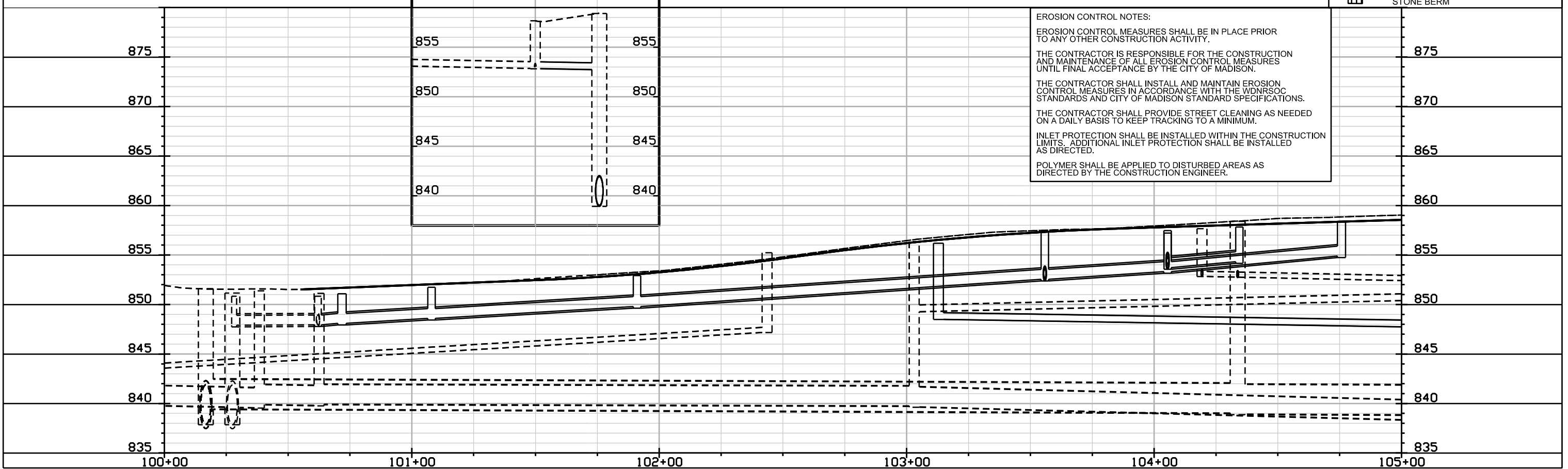
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

MATCHLINE STA 105+00.00

MATCHLINE STA 110+00.00

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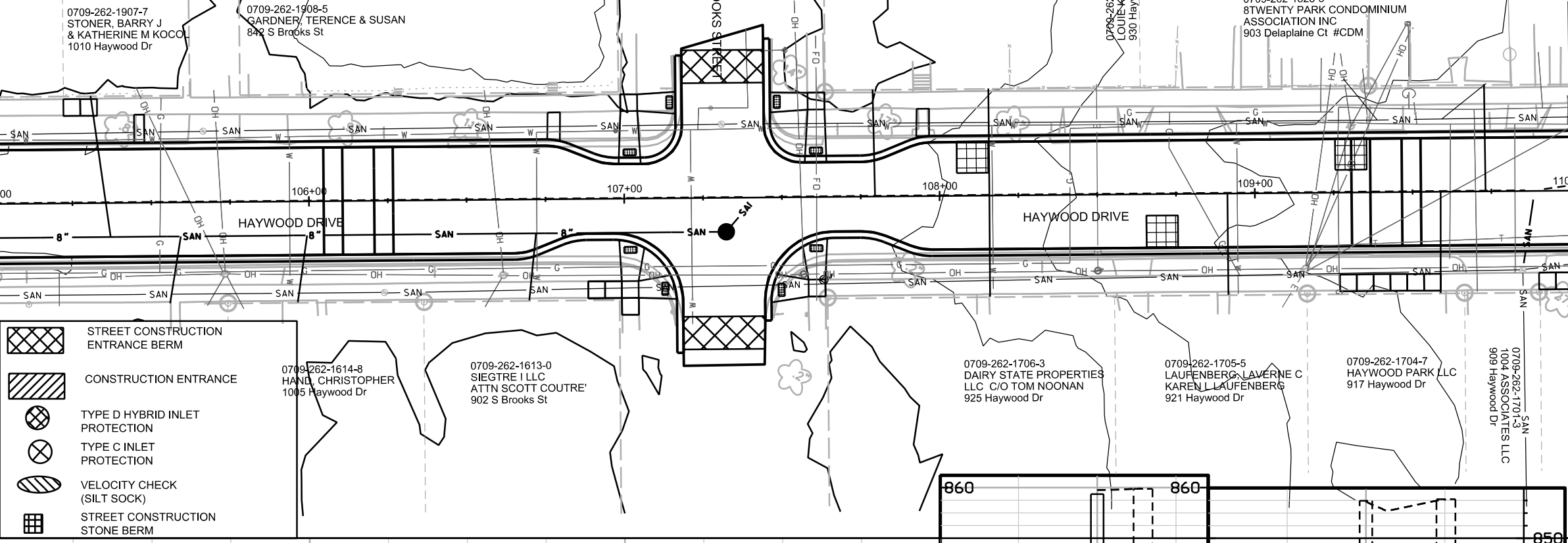
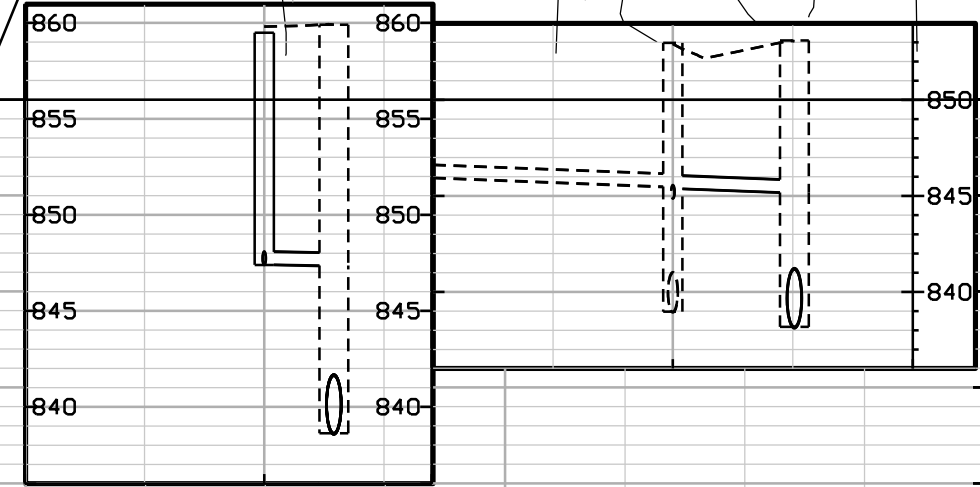
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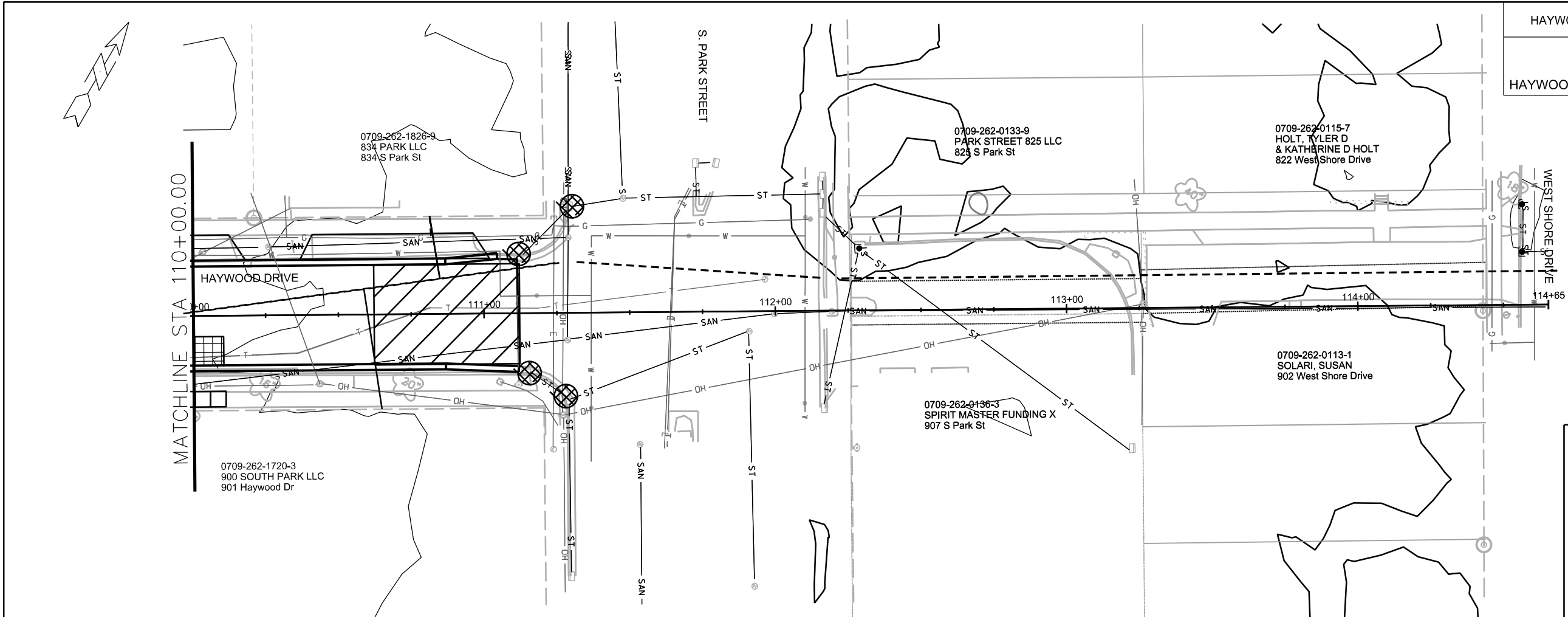


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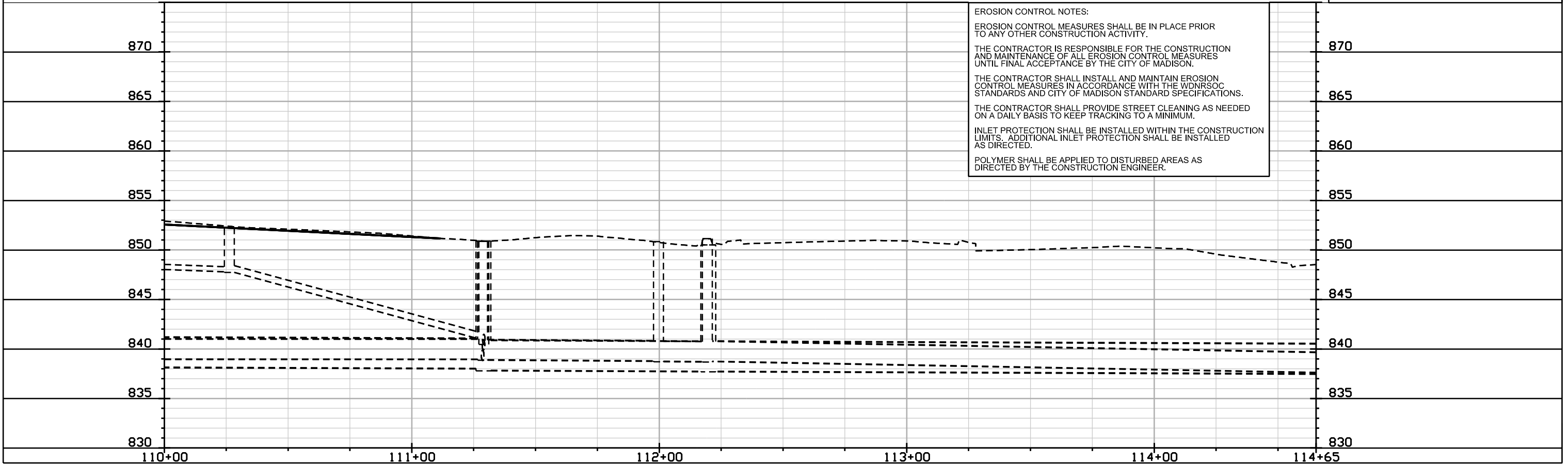
PLOT NAME: _____

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- STREET CONSTRUCTION ENTRANCE BERM
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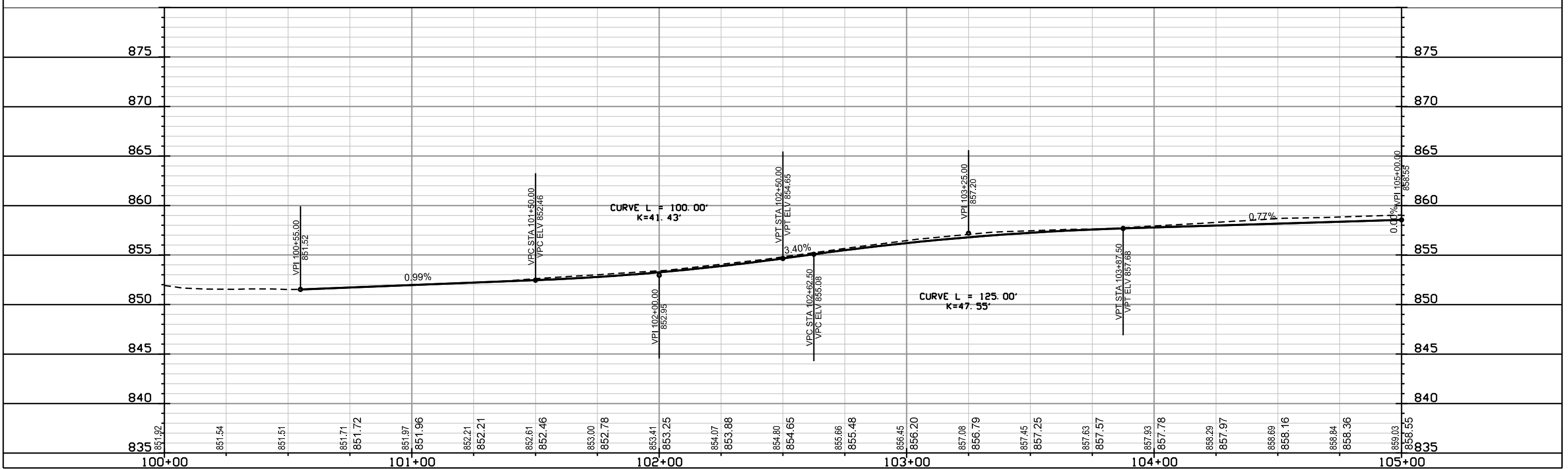
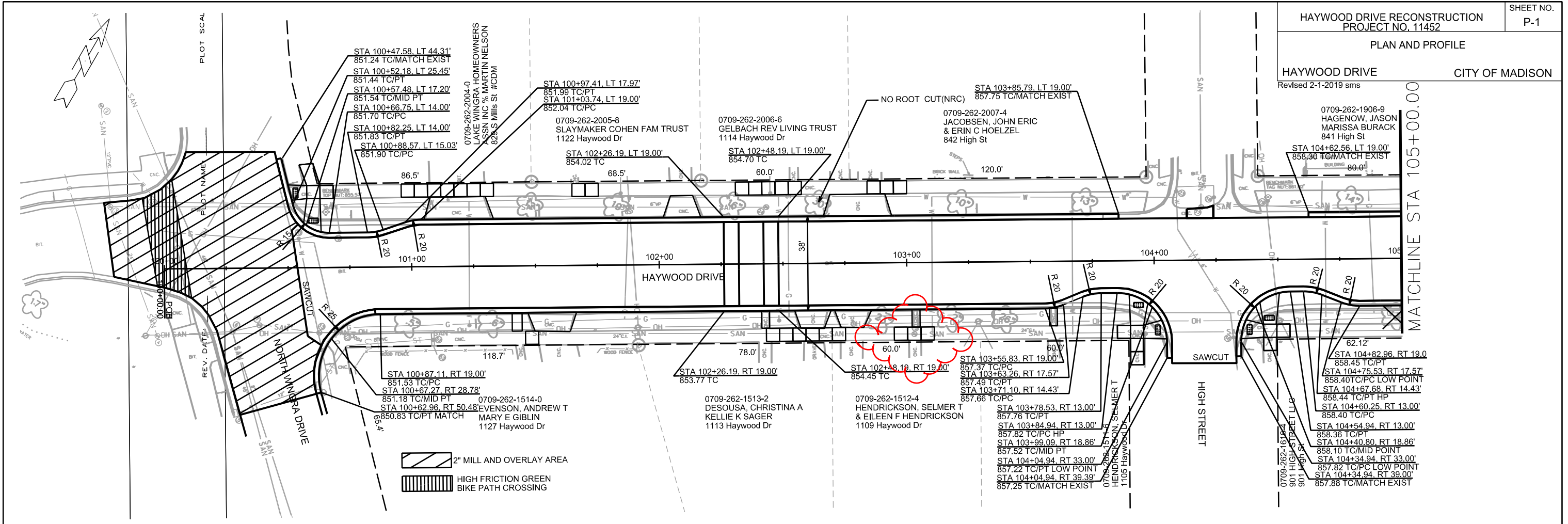


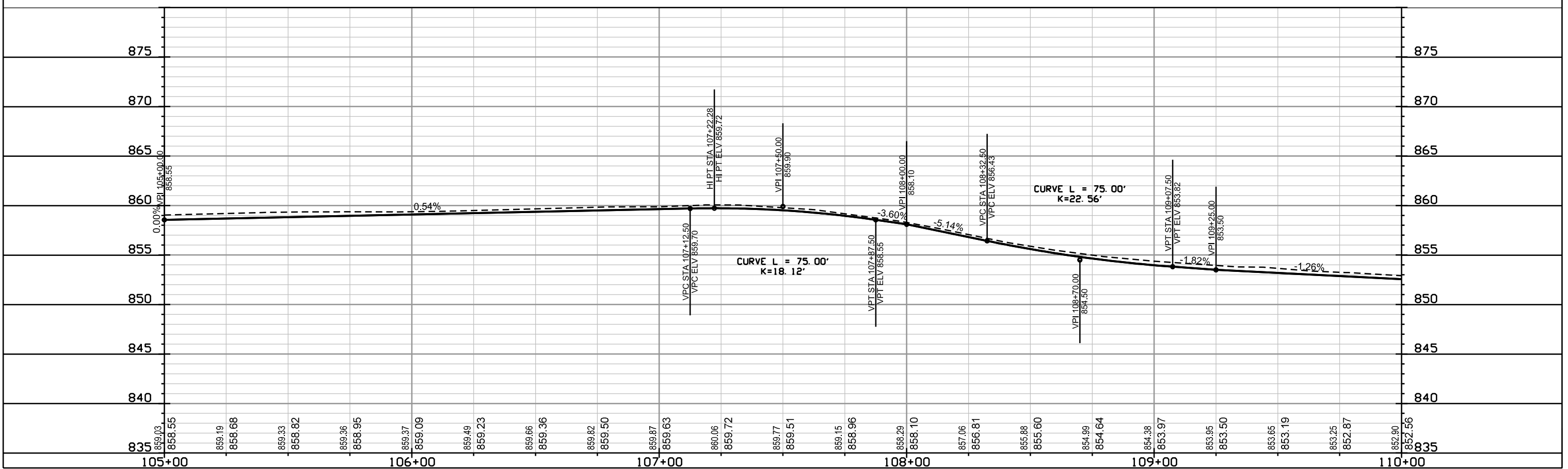
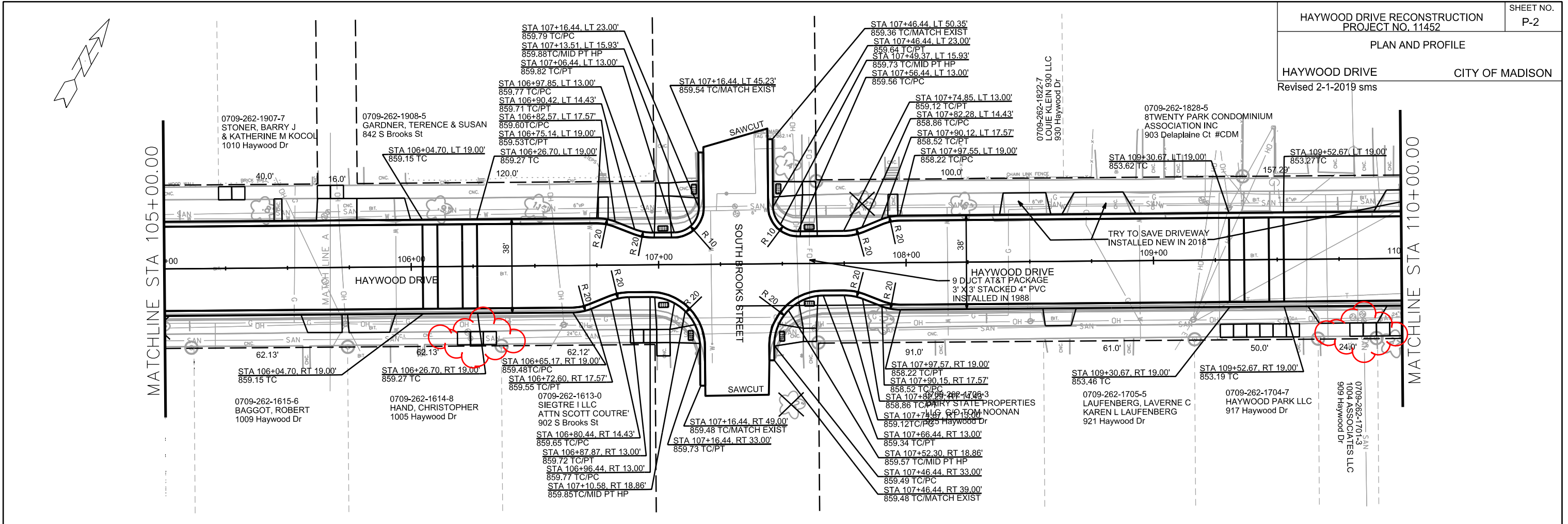
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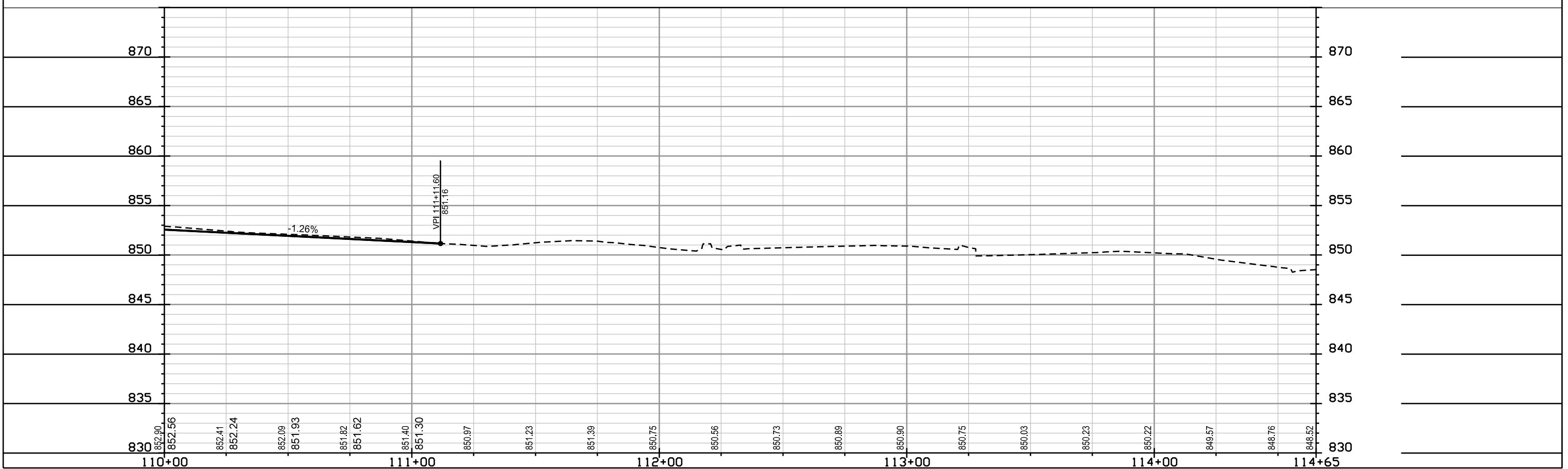
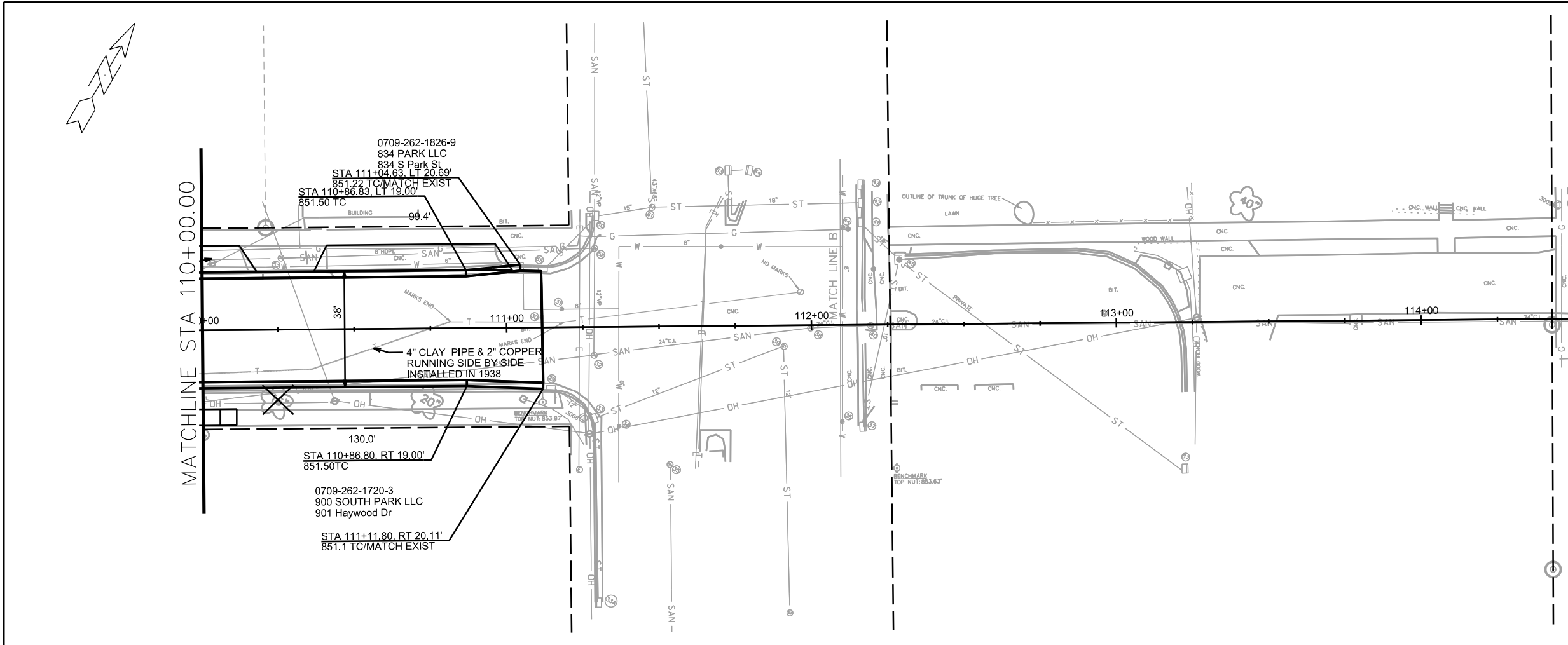
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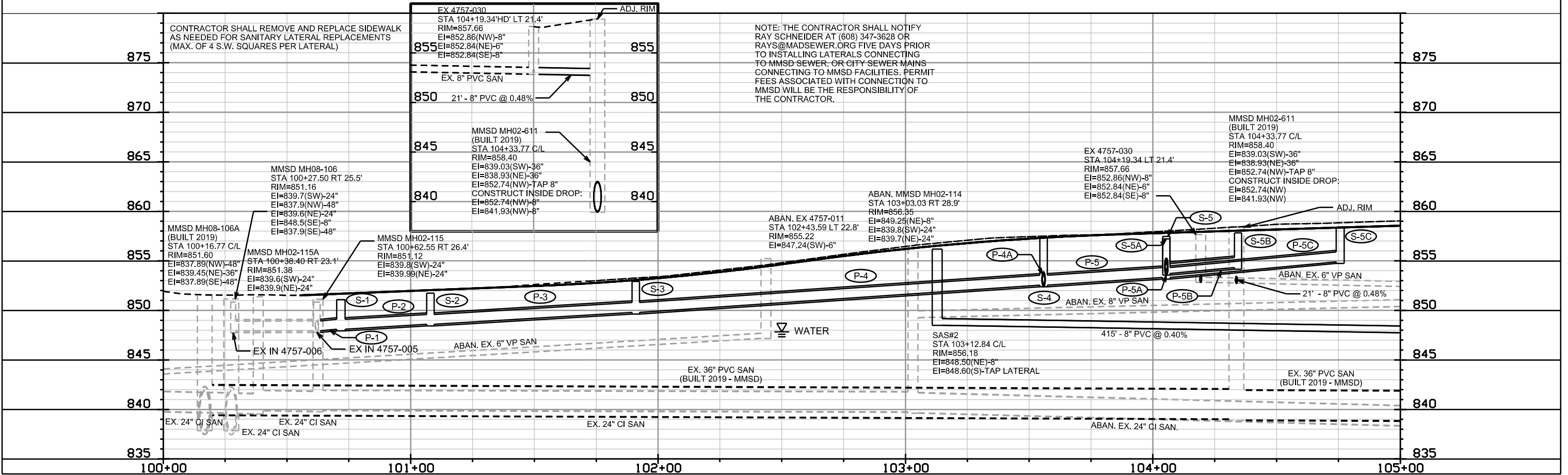
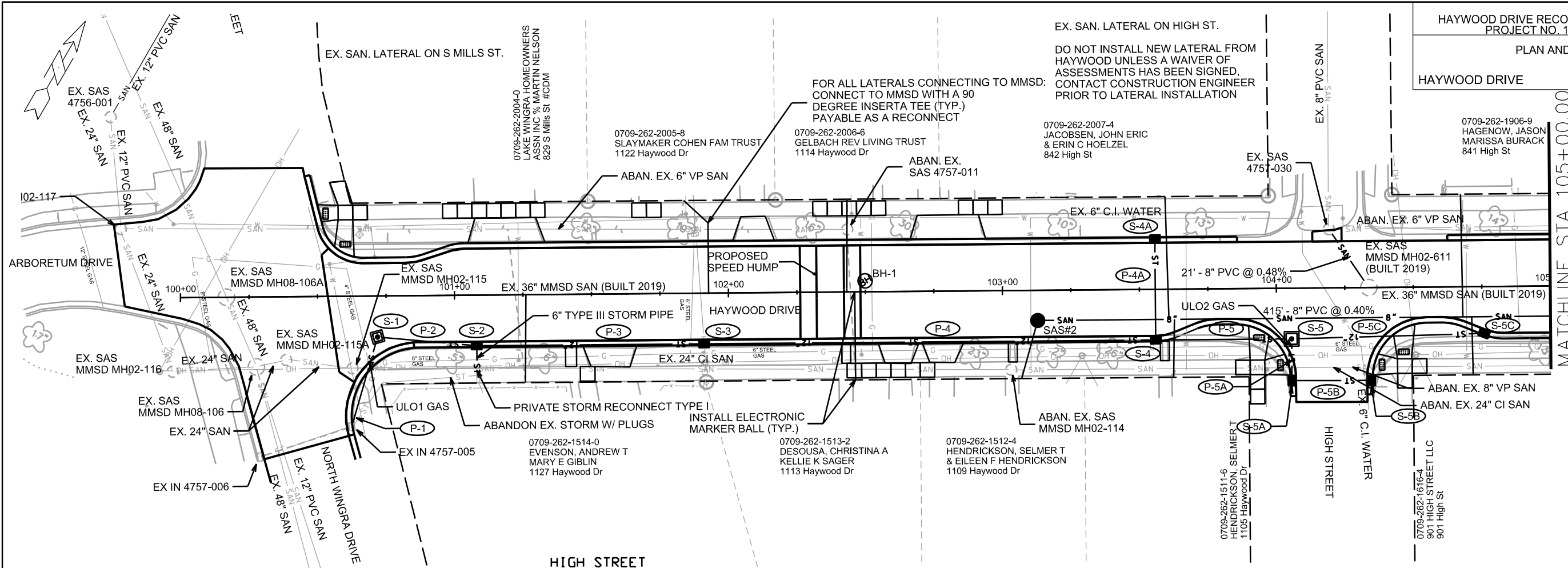
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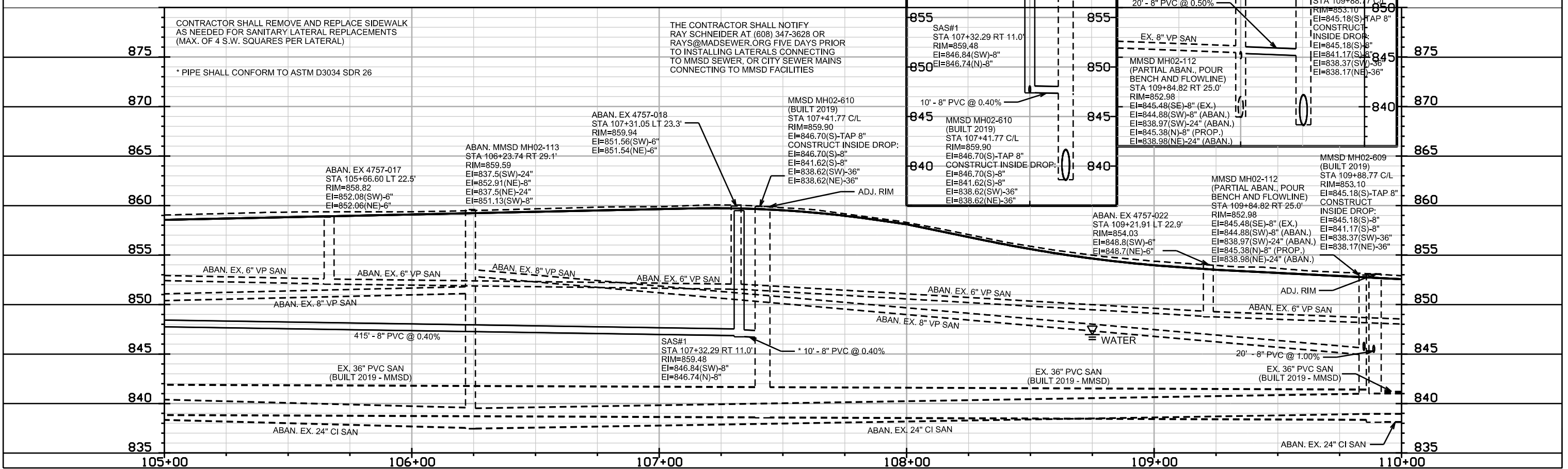
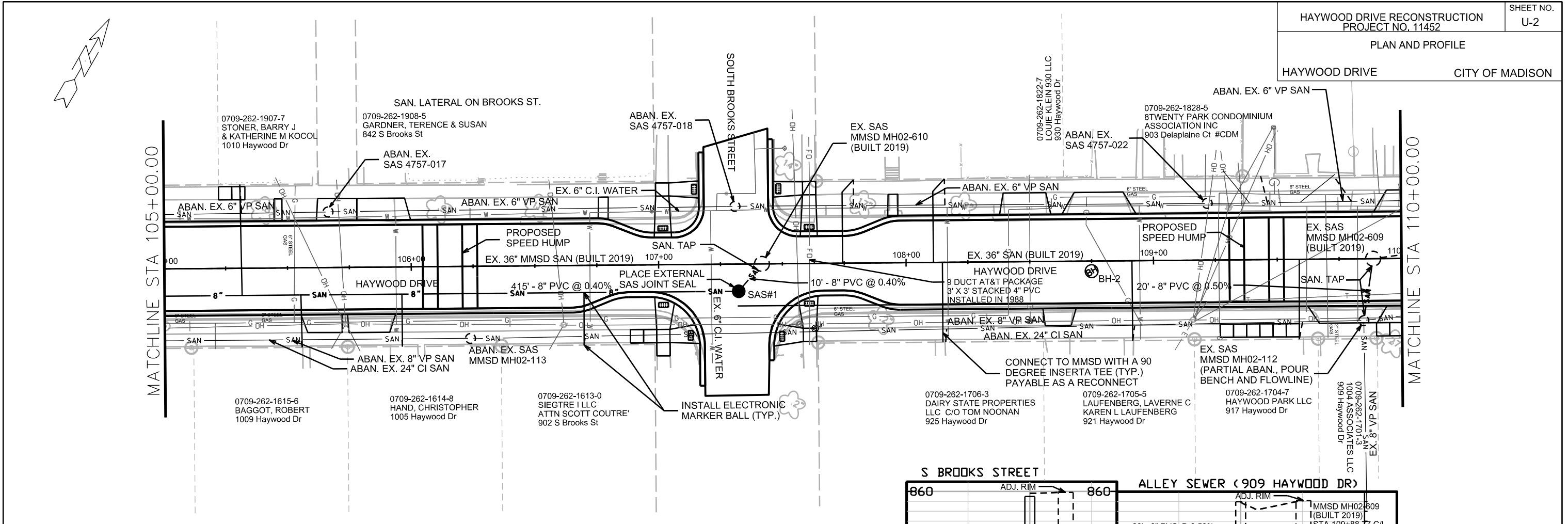






NOTE: THE CONTRACTOR SHALL NOTIFY RAY SCHNEIDER AT (608) 347-3628 OR RAYS@MADSEWER.ORG FIVE DAYS PRIOR TO INSTALLING LATERALS CONNECTING TO MMMSD SEWER, OR CITY SEWER MAINS CONNECTING TO MMMSD FACILITIES. PERMIT FEES ASSOCIATED WITH CONNECTION TO MMMSD WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

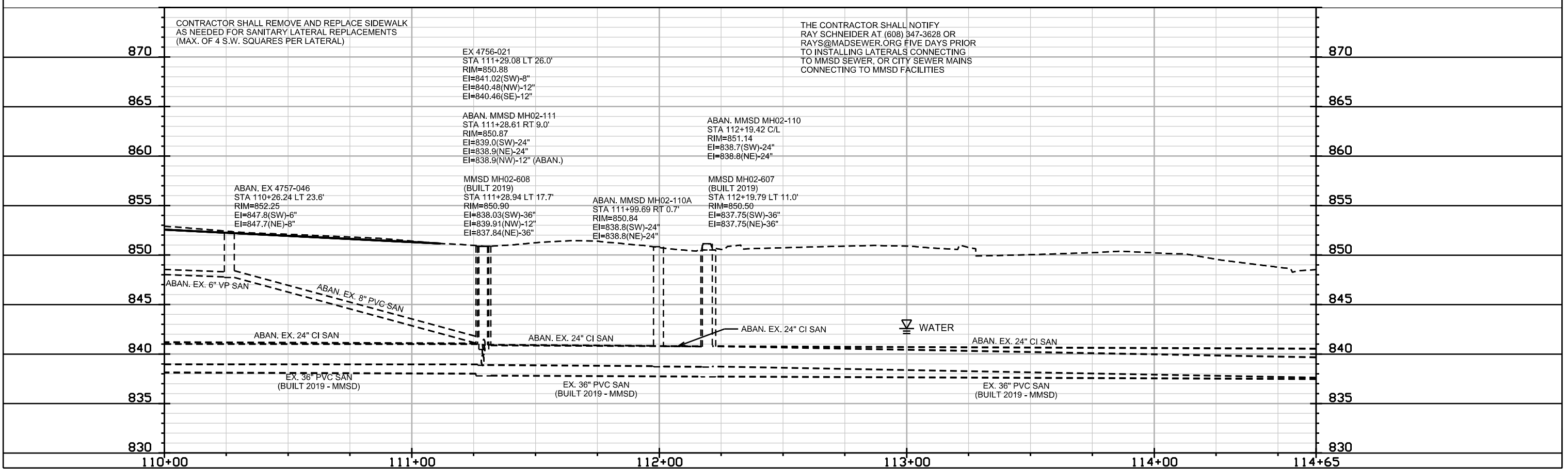
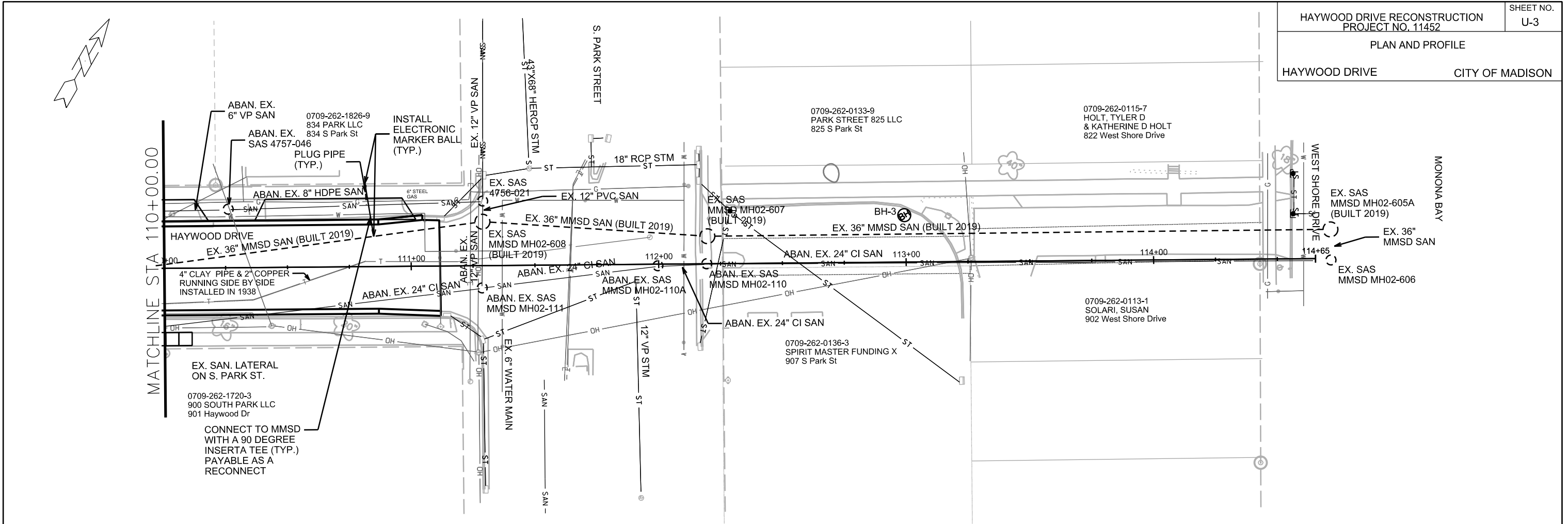
STATION	DESCRIPTION	ELEVATION
104+19.34	EX 4757-030 STA 104+19.34'HD' LT 21.4'	855
	RIM=857.66	
	EI=852.86(NW)-8"	
	EI=852.84(NE)-6"	
	EI=852.84(SE)-8"	
	EX. 8" PVC SAN	
	21' - 8" PVC @ 0.48%	
104+33.77	MMMSD MH02-611 (BUILT 2019) STA 104+33.77 C/L	845
	RIM=858.40	
	EI=839.03(SW)-36"	
	EI=838.93(NE)-36"	
	EI=852.74(NW)-TAP 8"	
	CONSTRUCT INSIDE DROP:	
	EI=852.74(NW)-8"	
	EI=841.93(NW)-8"	



CONTRACTOR SHALL REMOVE AND REPLACE SIDEWALK AS NEEDED FOR SANITARY LATERAL REPLACEMENTS (MAX. OF 4 S.W. SQUARES PER LATERAL)

* PIPE SHALL CONFORM TO ASTM D3034 SDR 26

THE CONTRACTOR SHALL NOTIFY RAY SCHNEIDER AT (608) 347-3628 OR RAYS@MADSEWER.ORG FIVE DAYS PRIOR TO INSTALLING LATERALS CONNECTING TO MMSD SEWER, OR CITY SEWER MAINS CONNECTING TO MMSD FACILITIES



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

HAYWOOD DRIVE RECONSTRUCTION	SHEET NO.
PROJECT NO. 11452	U-4
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

* REVISED 2/4/19 MAA

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
HAYWOOD DRIVE						
SAS#1	107+32.29	RT-11.00	859.48	846.74	12.74	[5]
SAS#2	103+12.84	RT-11.00	856.18	848.50	7.68	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
HAYWOOD DRIVE								
MMSD MH02-609	MMSD MH02-112	845.28	845.38	20	0.50%	8"	SDR-35	-
MMSD MH02-610	SAS#1	846.70	846.74	10	0.40%	8"	SDR-26	-
SAS#1	SAS#2	846.84	848.50	415	0.40%	8"	SDR-35	-
MMSD MH02-611	EX 4757-030	852.74	852.84	21	0.48%	8"	SDR-35	-

EXISTING SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
HAYWOOD DRIVE						
EX 4757-030	104+19.34	LT-21.4	857.66	852.84	4.82	TAP AND CONNECT PROPOSED PIPE
MMSD MH02-611	104+33.77	CL	858.40	838.93	19.47	[1]; TAP AND CONNECT PROPOSED PIPE
MMSD MH02-610	107+41.77	CL	859.90	838.62	21.28	[1]; TAP AND CONNECT PROPOSED PIPE
MMSD MH02-609	109+88.77	CL	853.10	838.17	14.93	[1]; TAP AND CONNECT PROPOSED PIPE

ABANDON SANITARY STRUCTURES

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	SIZE/TYPE	NOTES
HAYWOOD DRIVE							
* MMSD MH02-114	103+03.03	RT-28.9	856.35	839.70	16.65	6'X6' SQUARE	[6]
* MMSD MH02-113	106+23.74	RT-29.1	859.59	837.50	22.09	6'X6' SQUARE	[6]
* MMSD MH02-112	109+84.82	RT-25.0	852.98	838.97	14.01	6'X6' SQUARE	[2]
* MMSD MH02-111	111+28.61	RT-9.0	850.87	838.90	11.97	6'X6' SQUARE	[6]
* MMSD MH02-110A	111+99.69	RT-0.7	850.84	838.80	12.04	6'X6' SQUARE	[6]
* MMSD MH02-110	112+19.42	CL	851.14	838.70	12.44	6'X6' SQUARE	[6]
* EX 4757-011	102+43.59	LT-22.8	855.22	847.24	7.98	6'X6' SQUARE	[3]
* EX 4757-017	105+66.60	LT-22.5	858.82	852.06	6.76	6'X6' SQUARE	[3]
* EX 4757-018	107+31.05	LT-23.3	859.94	851.54	8.40	6'X6' SQUARE	[3]
* EX 4757-022	109+21.91	LT-22.9	854.03	848.70	5.33	6'X6' SQUARE	[3]
* EX 4757-046	110+26.24	LT-23.6	852.25	847.70	4.55	4' DIA. ROUND	[3]

ABANDON SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
HAYWOOD DRIVE						
MMSD MH02-117	EX 4757-011	261	6"	VP		[4]
* MMSD MH02-114	MMSD MH02-115	236	24"	CI		[4]
MMSD MH02-113	MMSD MH02-114	317	24"	CI		[4]
MMSD MH02-113	MMSD MH02-114	317	8"	VP		[4]
MMSD MH02-112	MMSD MH02-113	357	24"	CI		[4]
MMSD MH02-112	MMSD MH02-113	357	8"	VP		[4]
MMSD MH02-111	MMSD MH02-112	141	24"	CI		[4]
MMSD MH02-110A	MMSD MH02-111	68	24"	CI		[4]
MMSD MH02-110	MMSD MH02-110A	16	24"	CI		[4]
MMSD MH02-606	MMSD MH02-110	248	24"	CI		[4]
EX 4757-017	EX 4757-030	143	6"	VP		[4]
EX 4757-018	EX 4757-017	160	6"	VP		[4]
EX 4757-022	EX 4757-018	187	6"	VP		[4]
EX 4757-046	EX 4757-022	100	6"	VP		[4]
* EX 4756-021	EX 4757-046	99	8"	HDPE		[4]; OUTSIDE DROP AT ENTRANCE TO EX 4756-021

INSIDE DROPS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	PIPE SIZE	EI	EI	DROP (V.F.)	PAY QUANT.	NOTES
HAYWOOD DRIVE								
MMSD MH02-611	104+33.77	CL	8"	852.74	841.93	10.81	10.81	INSTALL IN ACCORDANCE WITH MMSD STANDARDS
MMSD MH02-610	107+41.77	CL	8"	846.70	841.63	5.07	5.07	" "
MMSD MH02-609	109+88.77	CL	8"	845.18	841.13	4.05	4.05	" "

SPECIFIC NOTES:

- [1] BUILT 2019 (MMSD PROJECT)
- * [2] POUR BENCH AT PROPOSED OUTGOING SPRINGLINE (ELEV. 845.38), PARTIAL ABANDON, IN ACCORDANCE WITH SPECIAL PROVISION FOR BID ITEM 90070, PAID UNDER BID ITEM 90070
- [3] ABANDON SAS, PAID UNDER BID ITEM 20331
- [4] ABANDON PIPE WITH SLURRY. ABANDON PIPE PAID UNDER BID ITEM 20335
- [5] INSTALL EXTERNAL SEWER ACCESS STRUCTURE JOINT SEAL
- * [6] ABANDON MMSD SAS ON PARK ST. IN ACCORDANCE WITH SPECIAL PROVISION FOR BID ITEM 90071, PAID UNDER BID ITEM 90071

STORM SEWER SCHEDULE

HAYWOOD DRIVE RECONSTRUCTION
PROJECT NO. 11452

SHEET NO.
U-5

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HAYWOOD DRIVE							
S-1	100+71.80	RT-14.00	3X3 AS	851.09	848.09	3.00	FP; w/ R-1550-0054
S-2	101+08.00	RT-19.00	H INLET	851.74	848.59	3.15	w/ R-3067-7004-V
S-3	101+91.00	RT-19.00	H INLET	852.92	849.79	3.13	" "
S-4	103+55.83	RT-19.00	H INLET	857.37	852.54	4.83	" "
S-4A	103+55.83	LT-19.00	H INLET	857.44	852.72	4.73	" "
S-5	104+05.45	RT-18.50	4X4 AS	857.45	853.33	4.13	w/ R-1550-0054
S-5A	104+04.94	RT-32.89	H INLET	857.22	853.72	3.50	LP; w/ R-3067-7004-VB
S-5B	104+35.86	RT-33.14	H INLET	857.83	854.33	3.50	" "
S-5C	104+75.53	RT-17.57	H INLET	858.40	854.90	3.50	" "

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
HAYWOOD DRIVE										
P-1	EX IN 4757-005	S-1	847.94	848.09	34.1	30.7	0.49%	12"	TYPE I	-
P-2	S-1	S-2	848.09	848.59	36.4	33.3	1.50%	12"	TYPE I	-
P-3	S-2	S-3	848.59	849.79	83.0	80.0	1.50%	12"	TYPE I	-
P-4	S-3	S-4	849.79	852.54	164.8	161.8	1.70%	12"	TYPE I	-
P-4A	S-4	S-4A	852.54	852.72	37.0	35.0	0.50%	12"	TYPE I	-
P-5	S-4	S-5	852.54	853.33	49.6	46.1	1.70%	12"	TYPE I	-
P-5A	S-5	S-5A	853.33	853.72	15.2	11.7	3.38%	12"	TYPE I	-
P-5B	S-5A	S-5B	853.72	854.33	29.0	27.0	2.26%	12"	TYPE I	-
P-5C	S-5	S-5C	853.33	854.90	70.3	66.7	2.36%	12"	TYPE I	-

EXISTING STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HAYWOOD DRIVE							
IN 4757-005	100+63.08	RT-48.90	H INLET	850.83	847.94	2.89	TAP AND CONNECT PROPOSED PIPE

UTILITY LINE OPENINGS (ULO)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
HAYWOOD DRIVE					
ULO1	100+69.00	RT-24.40	GAS	-	-
ULO2	104+05.45	RT-21.10	GAS	-	-

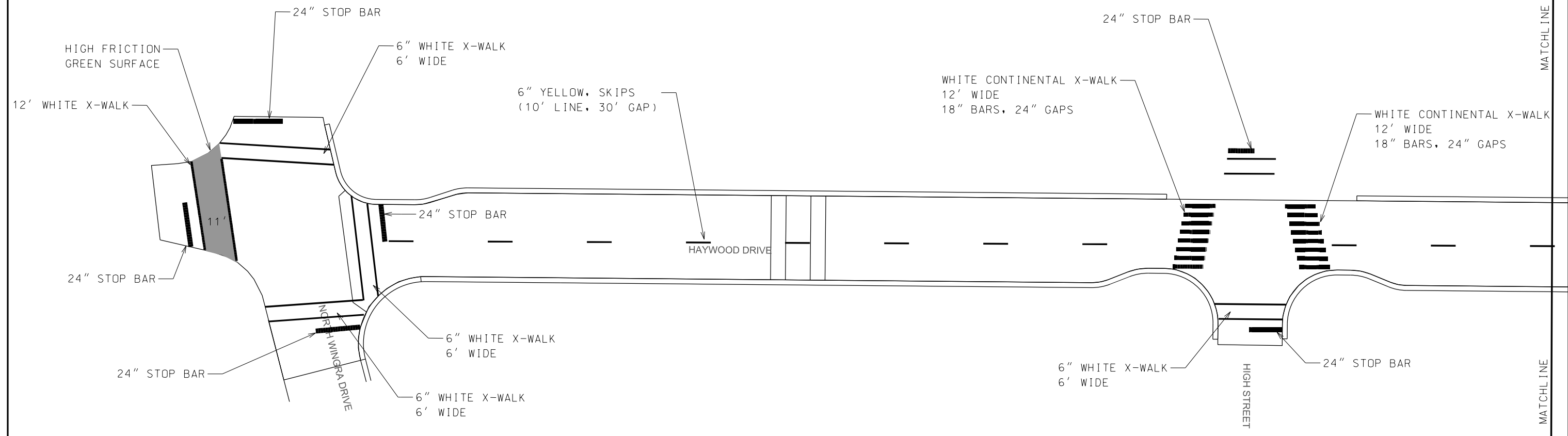
SPECIFIC NOTES

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 MATT OF CITY ENGINEERING AT (608) 266-4058 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO MALLIE@CITYOFMADISON.COM.

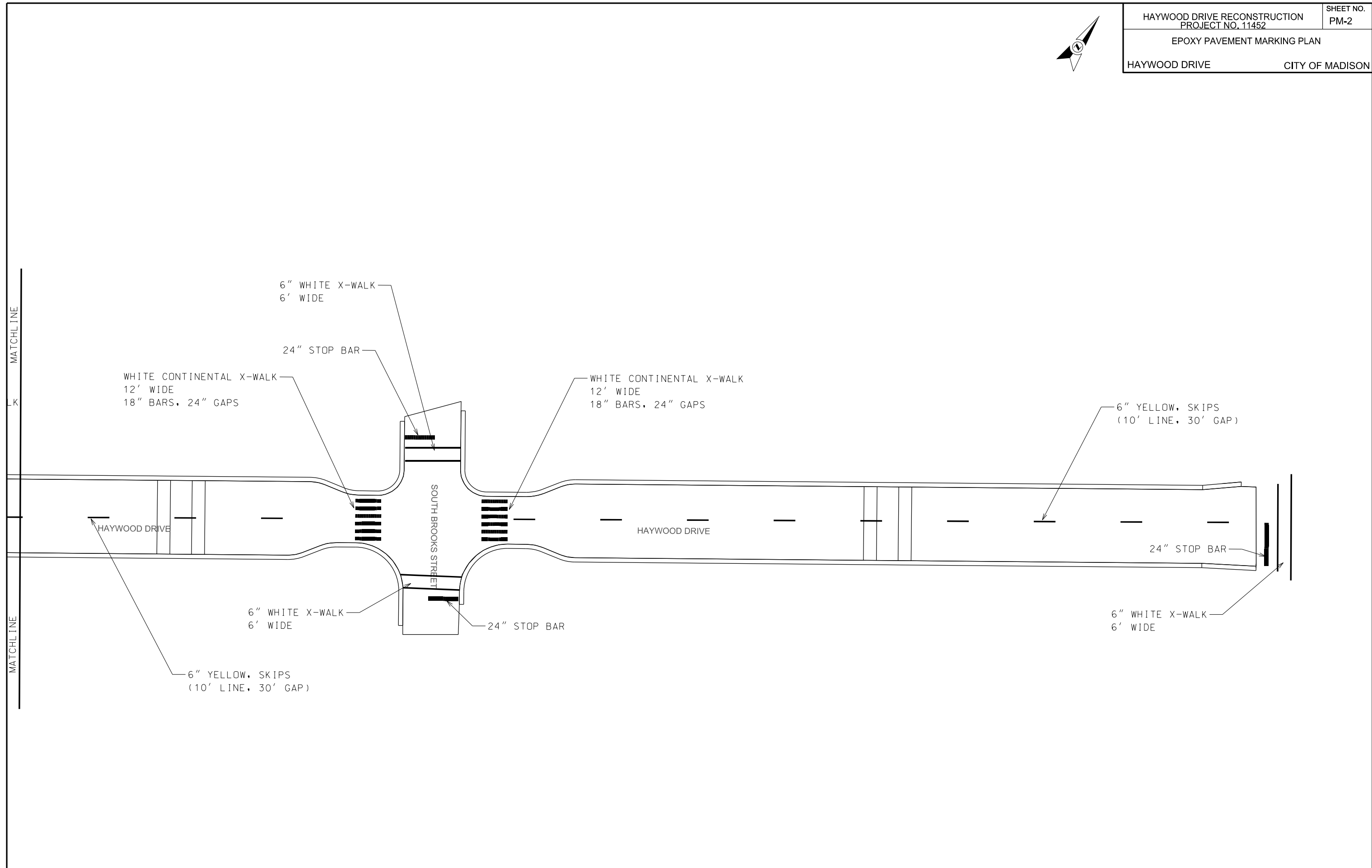


PLOT SCALE:
 PLOT NAME:
 REV. DATE:
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





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



CROSS SECTIONS

HAYWOOD DRIVE

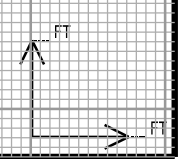
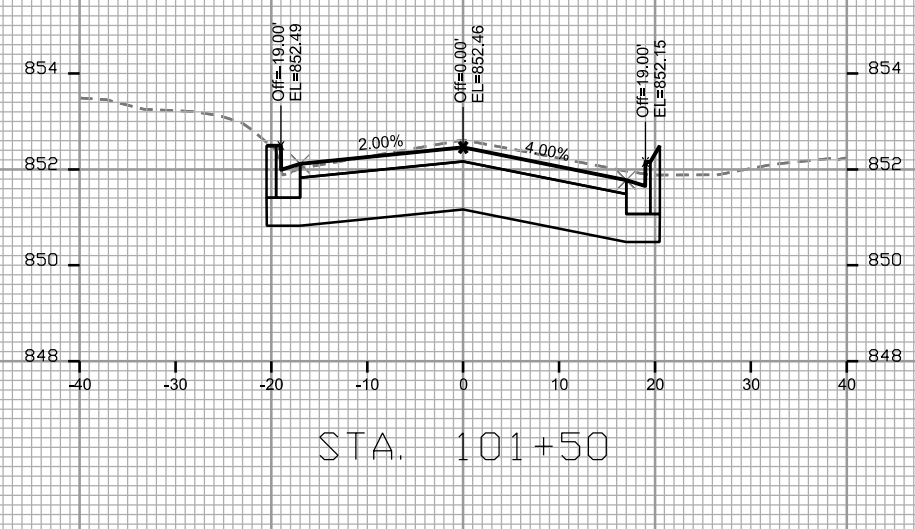
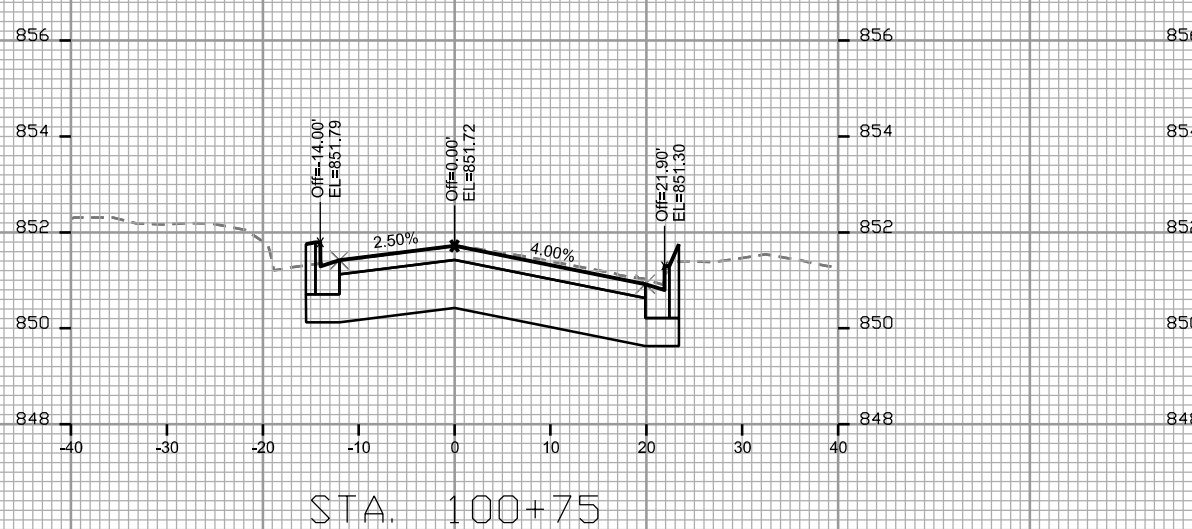
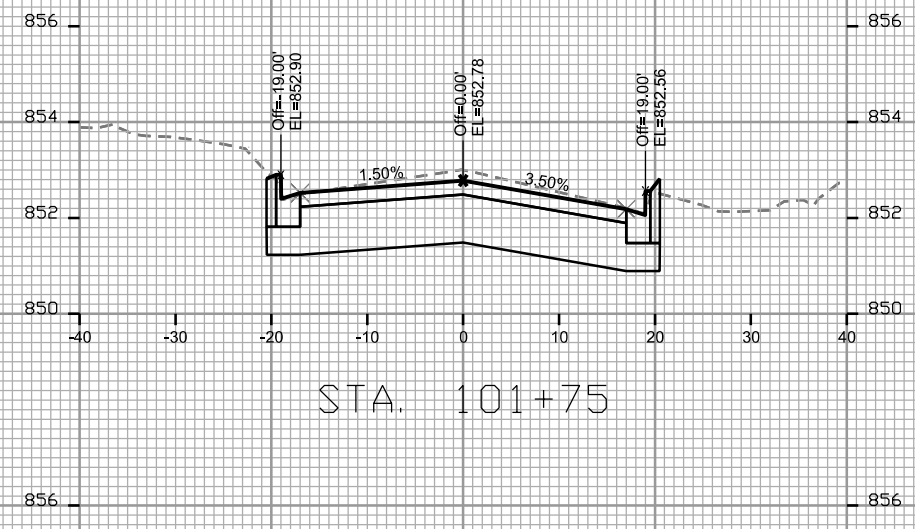
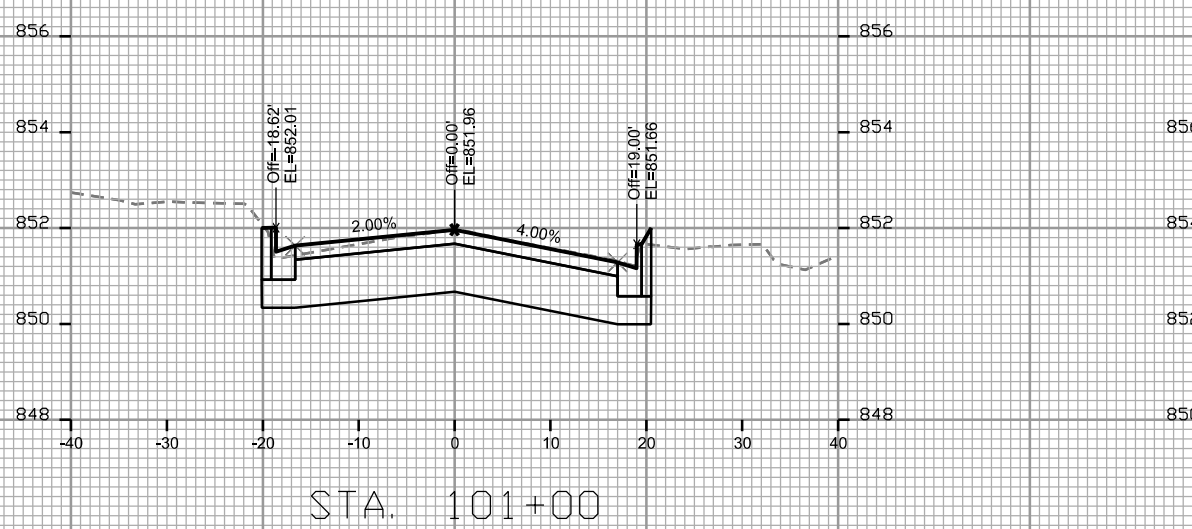
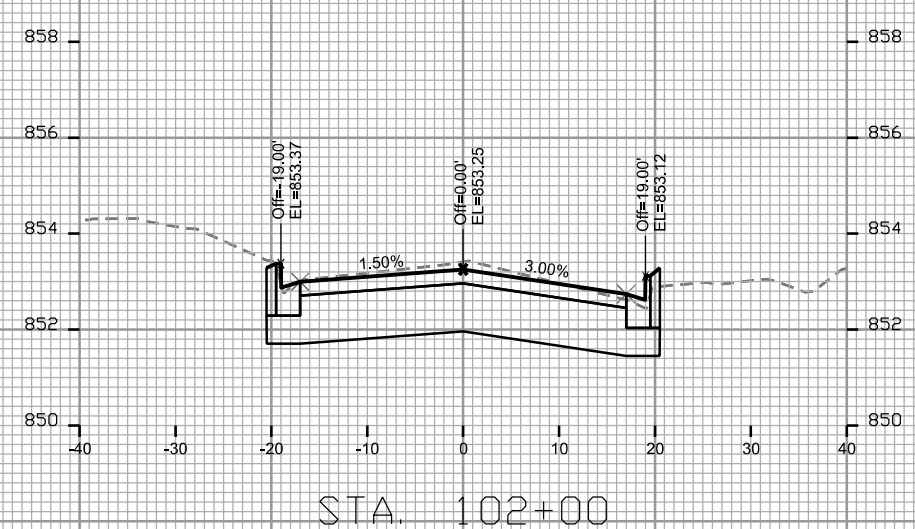
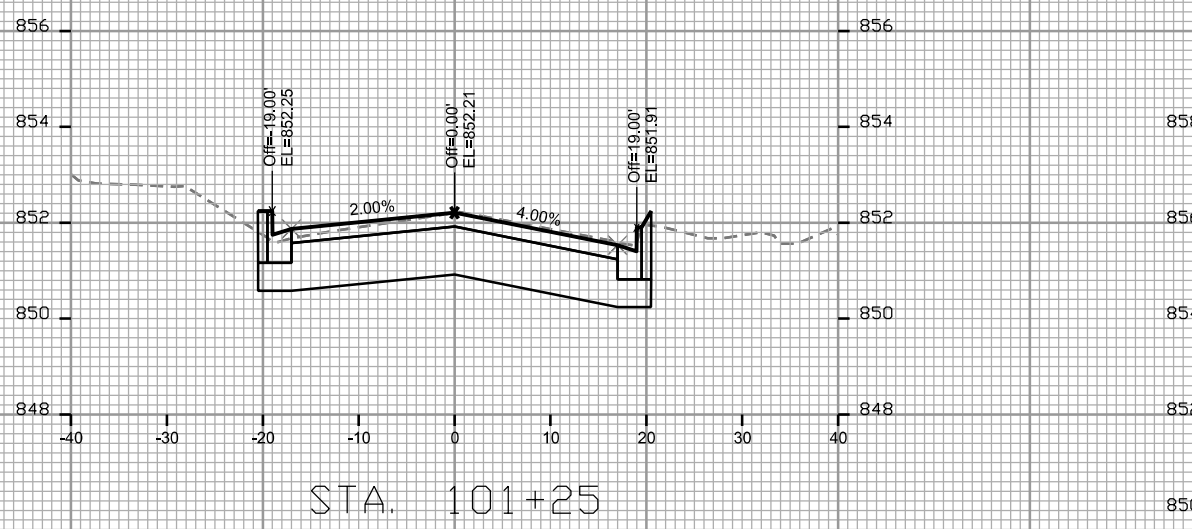
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

HAYWOOD DRIVE

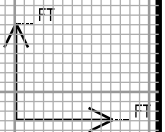
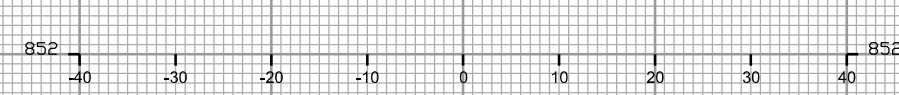
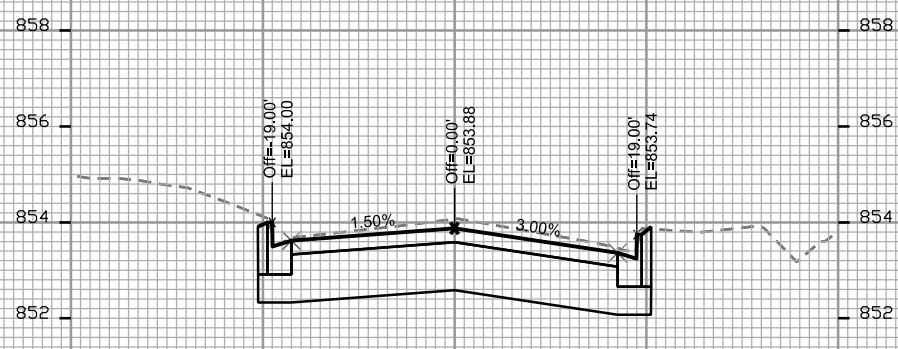
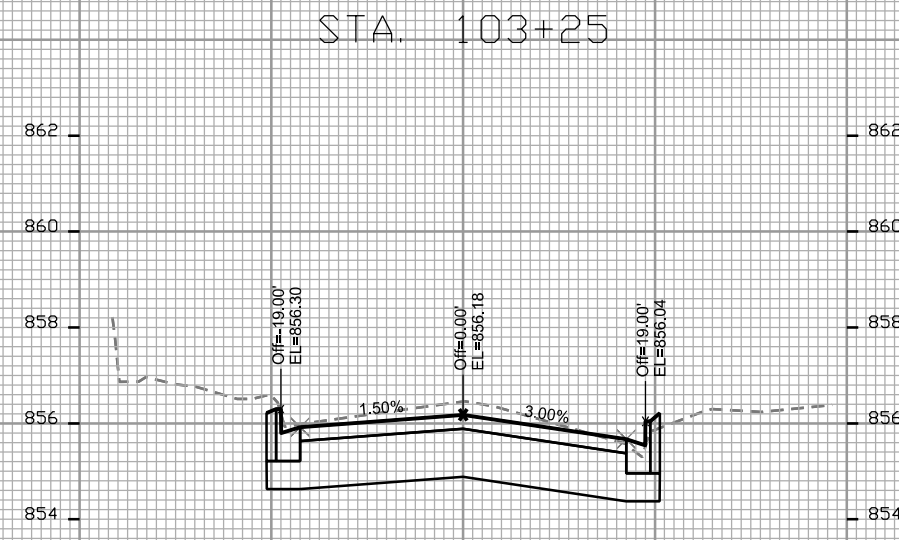
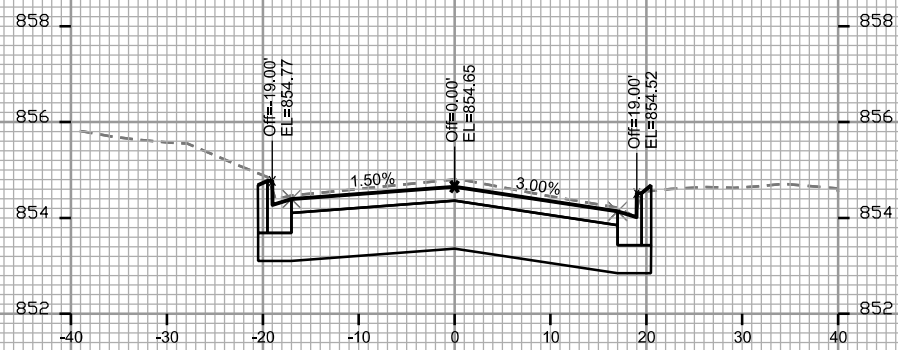
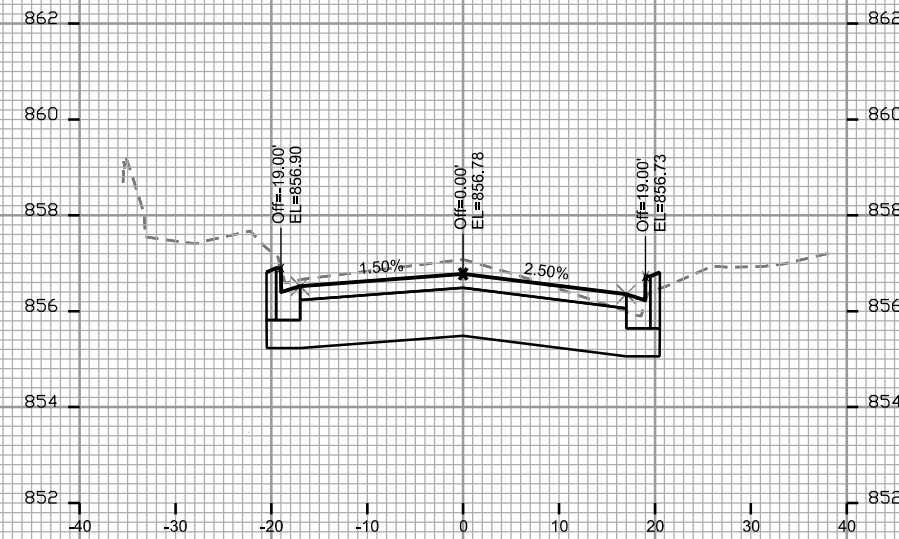
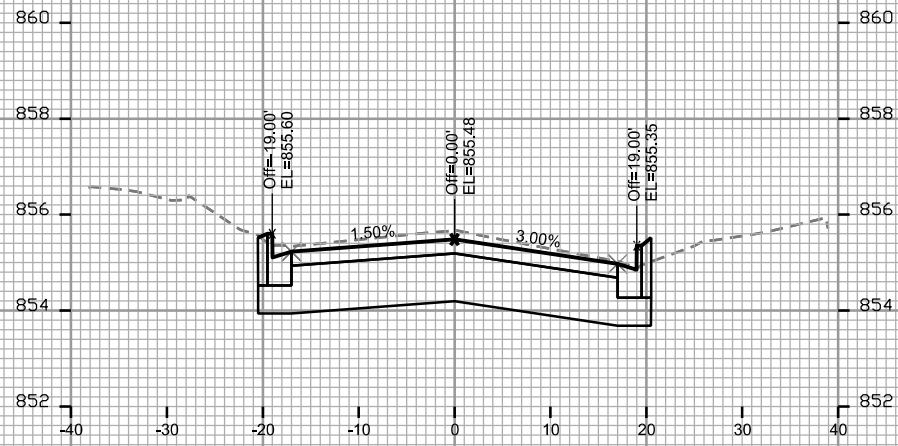
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

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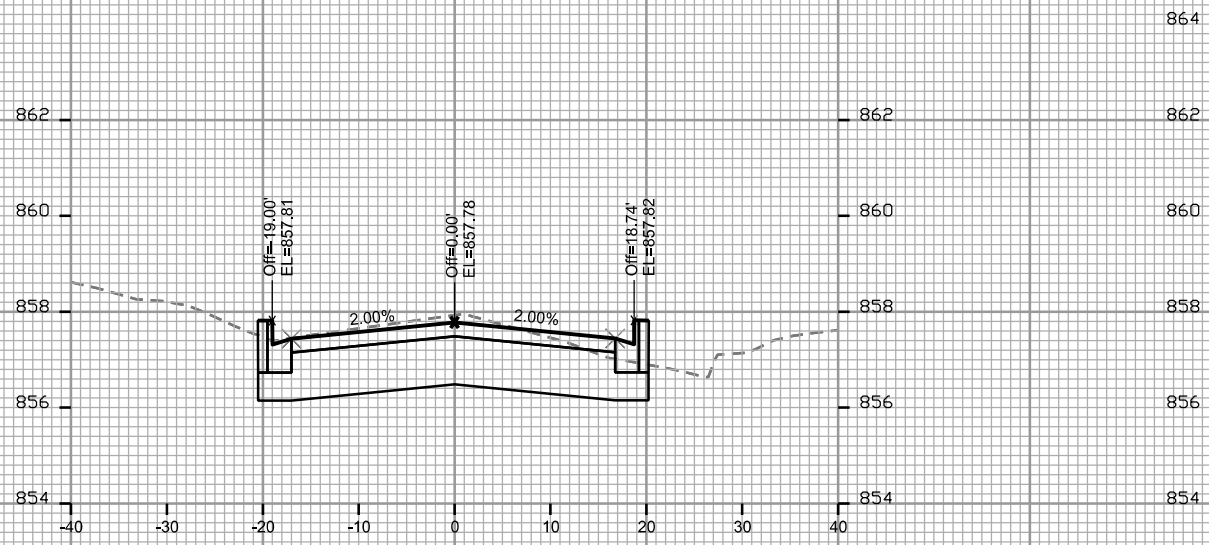
CITY OF MADISON

PLOT SCALE: _____

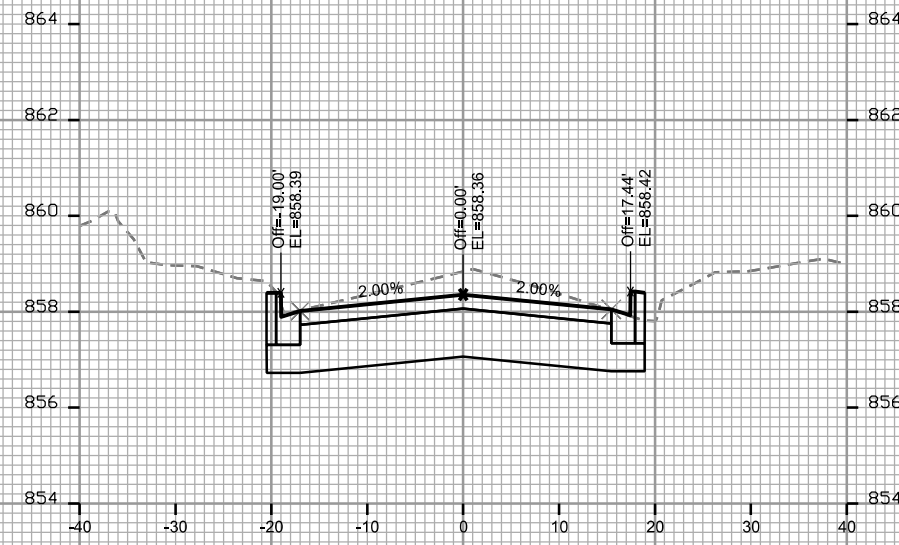
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REV. DATE: _____

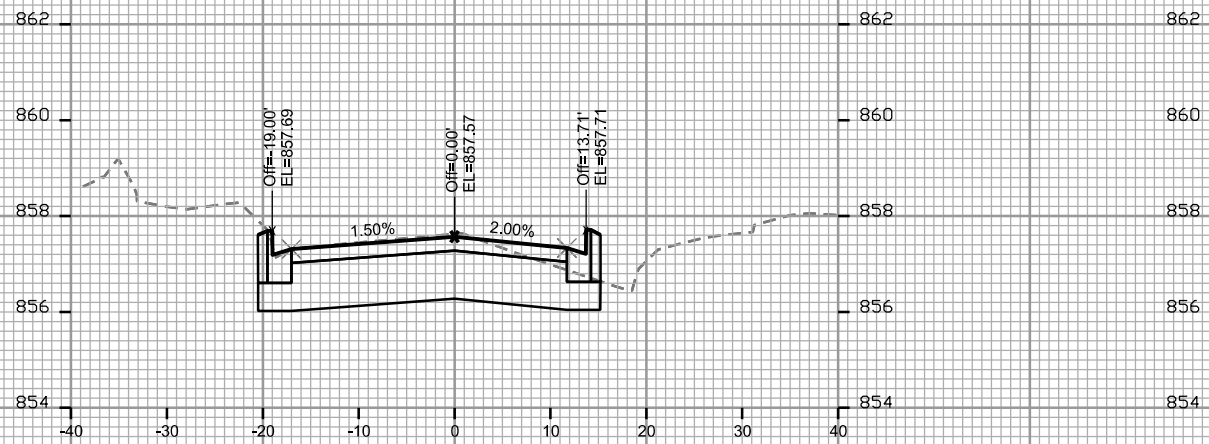
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



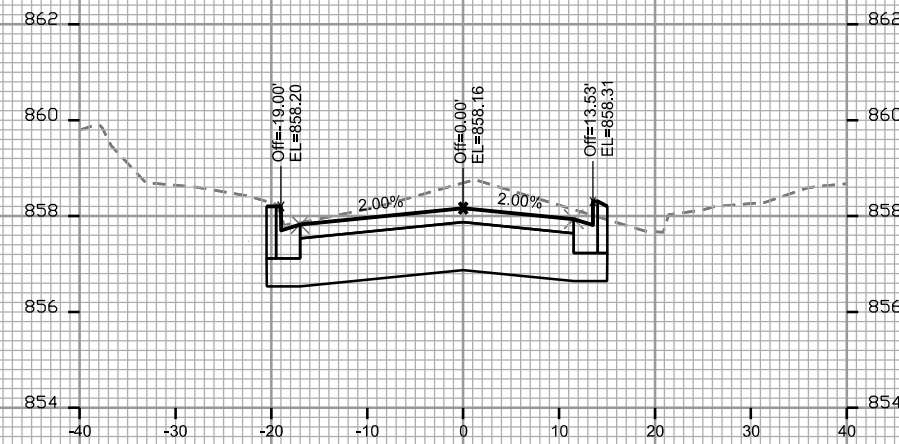
STA. 104+00



STA. 104+75



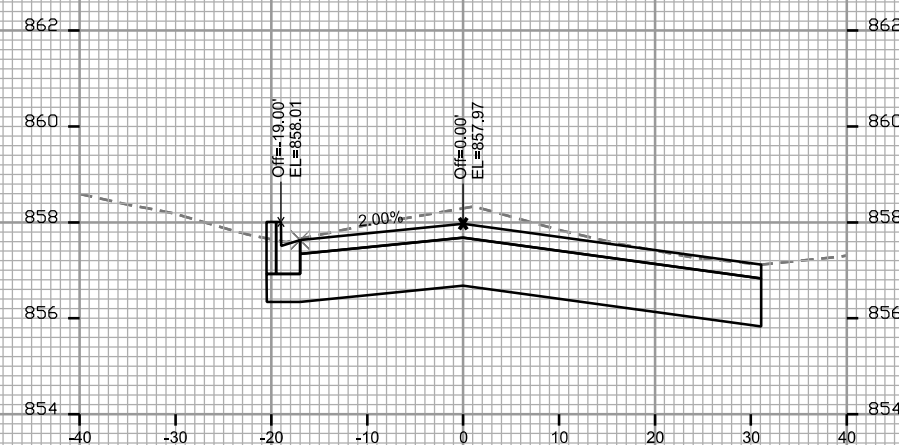
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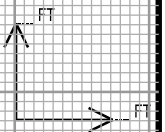
STA. 104+50

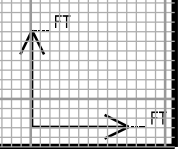
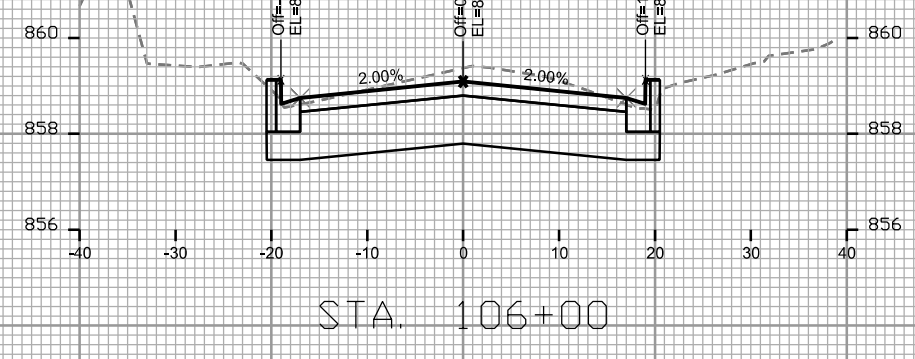
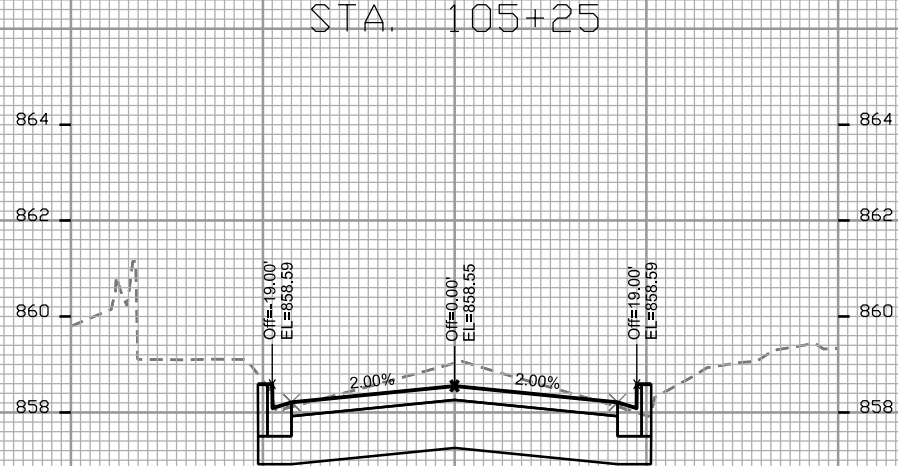
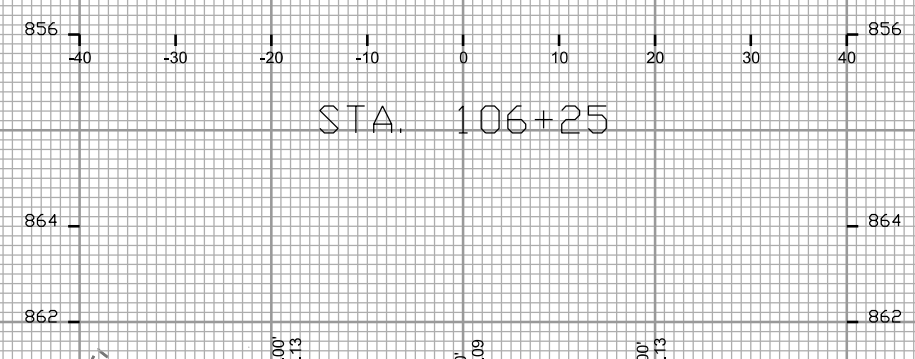
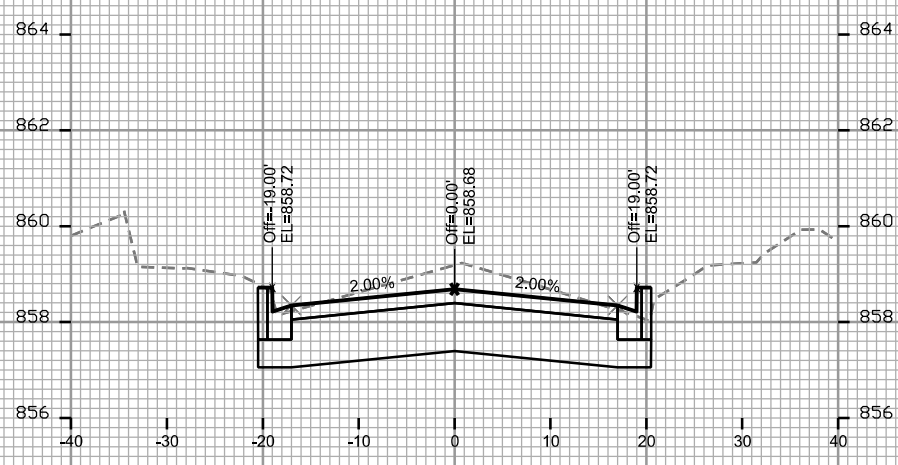
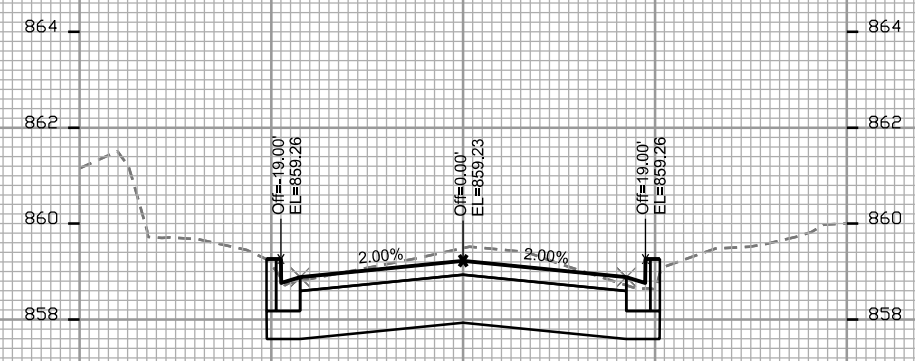
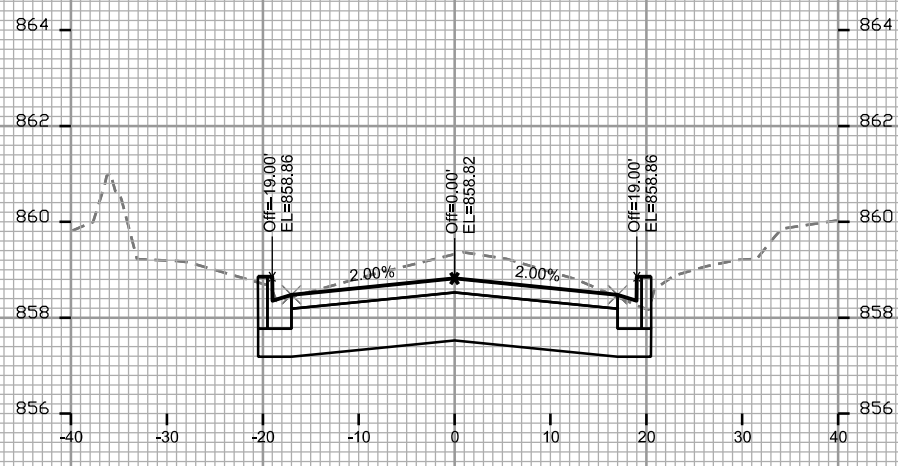


STA. 103+50



STA. 104+25





PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

HAYWOOD DRIVE

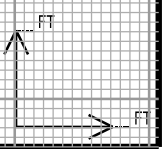
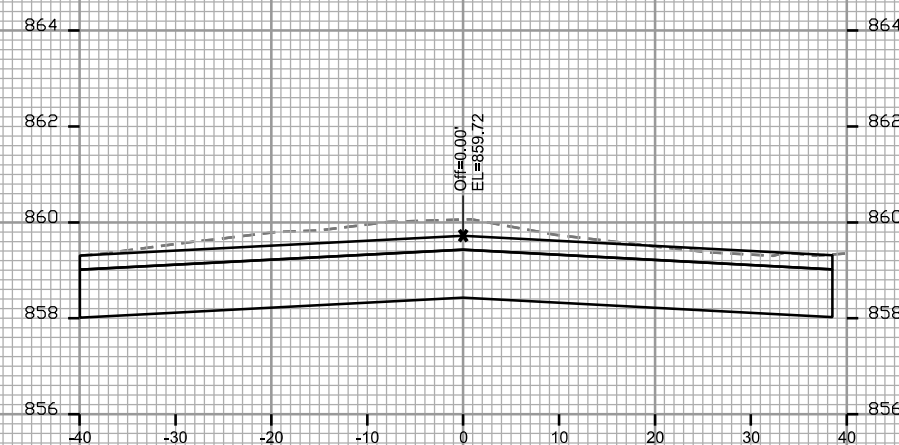
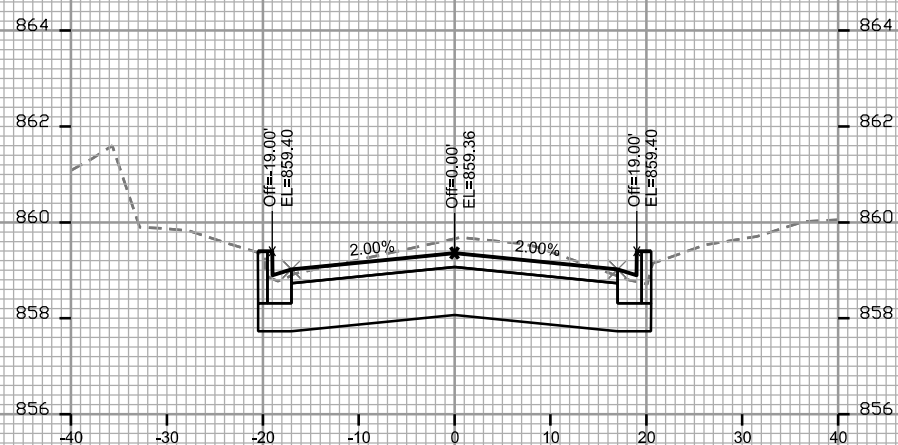
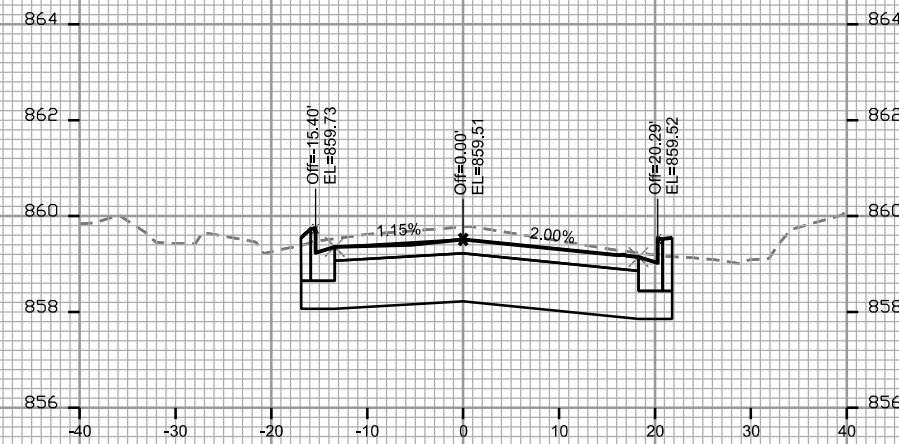
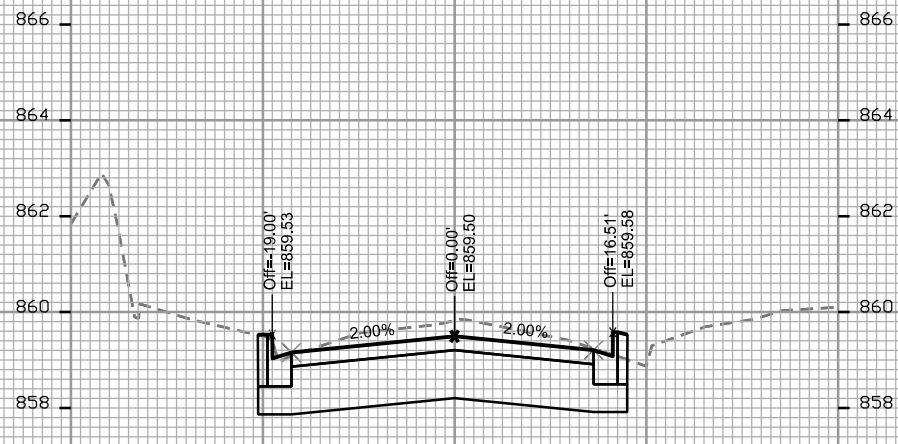
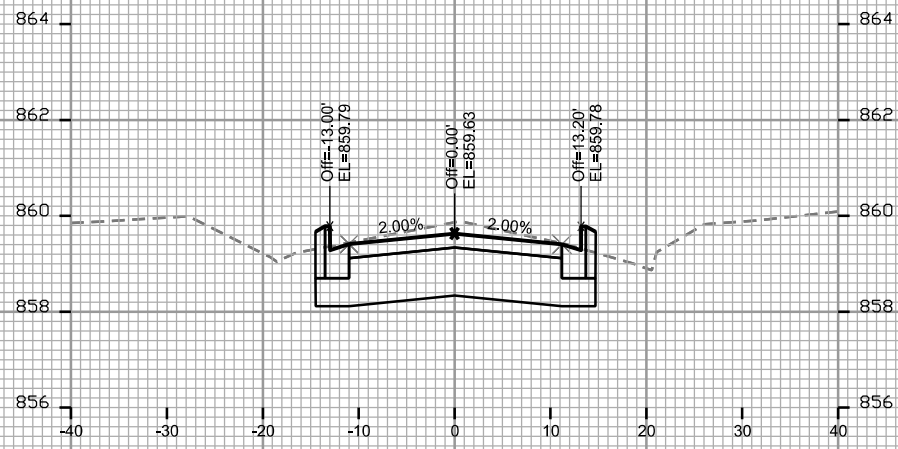
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

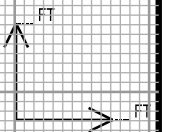
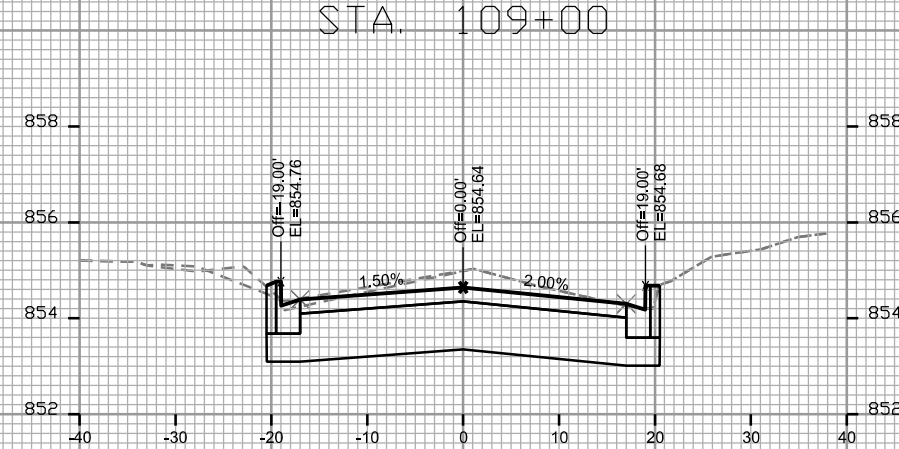
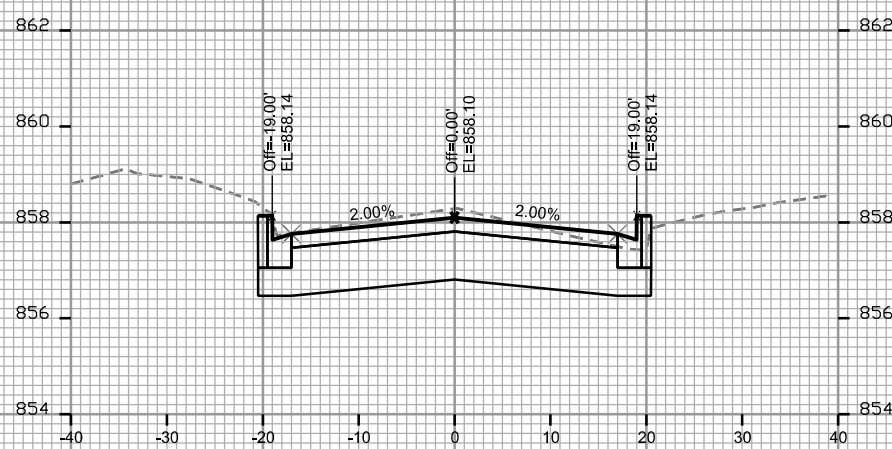
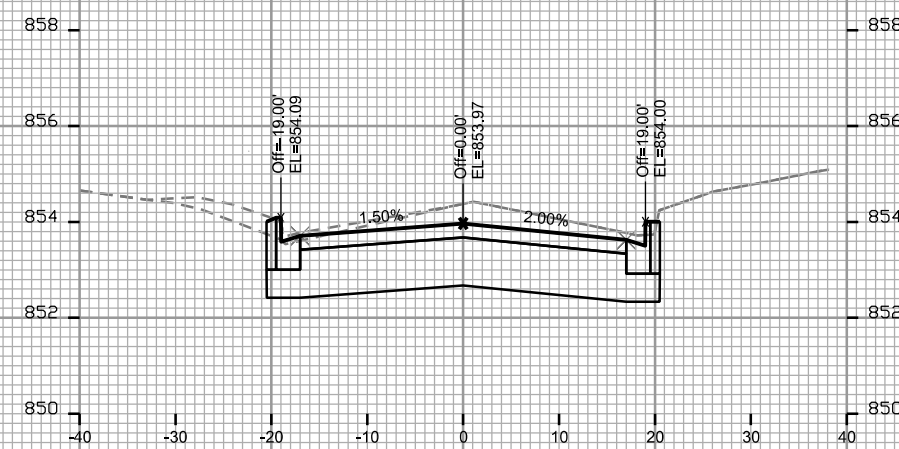
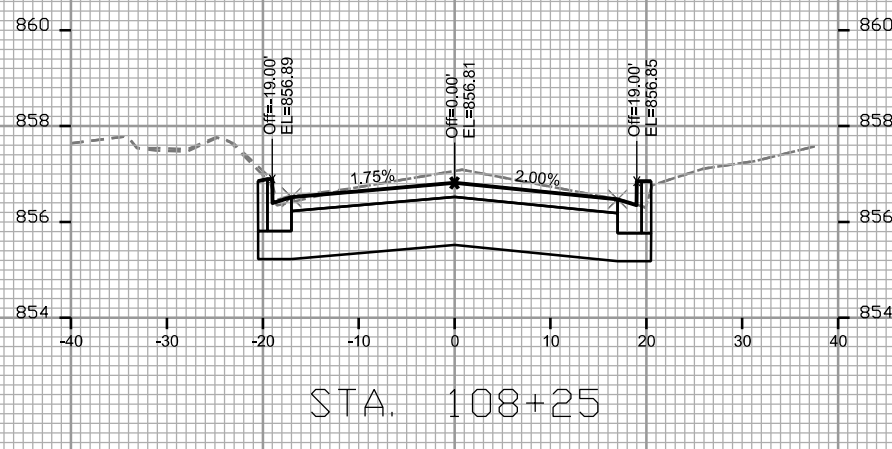
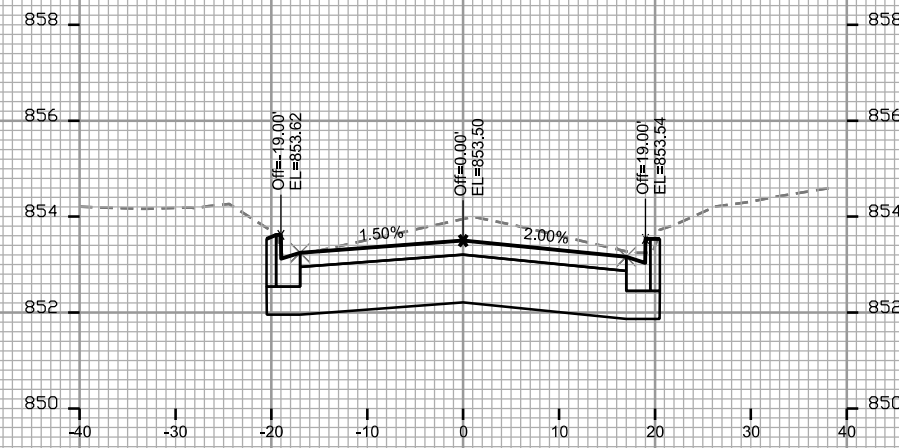
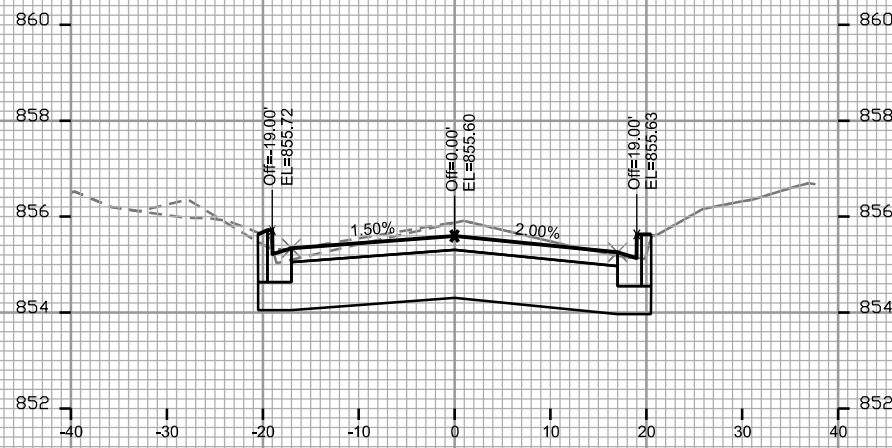
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

HAYWOOD DRIVE

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

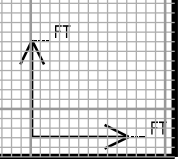
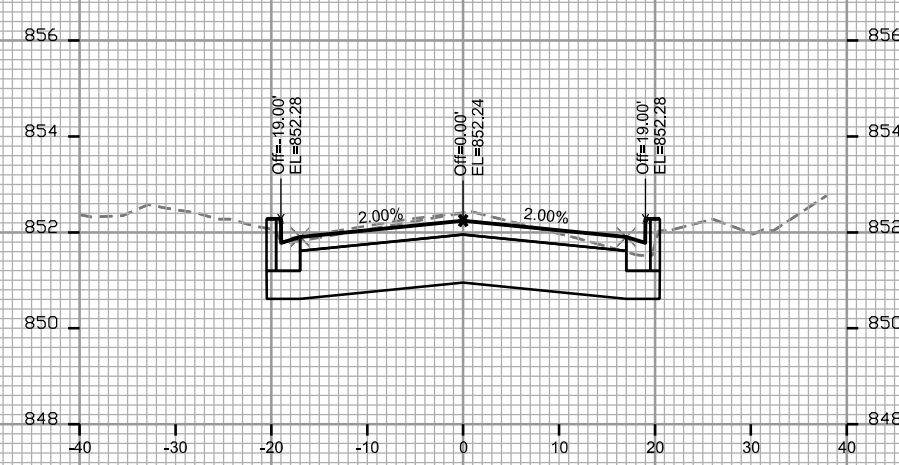
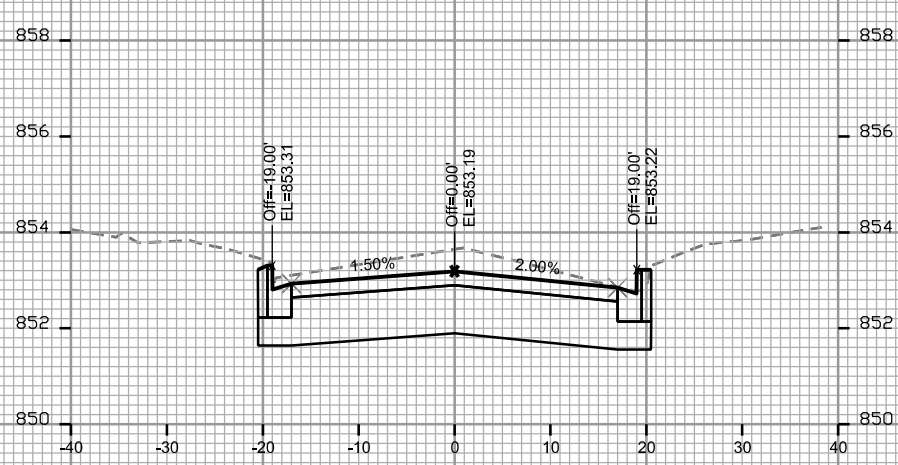
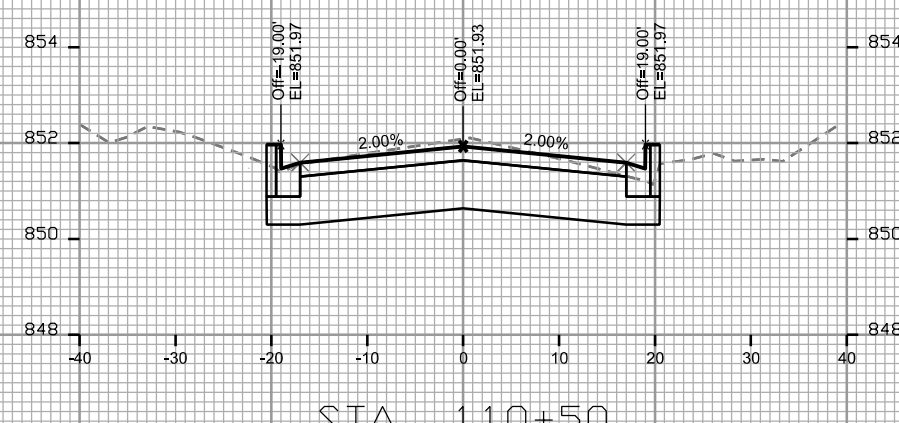
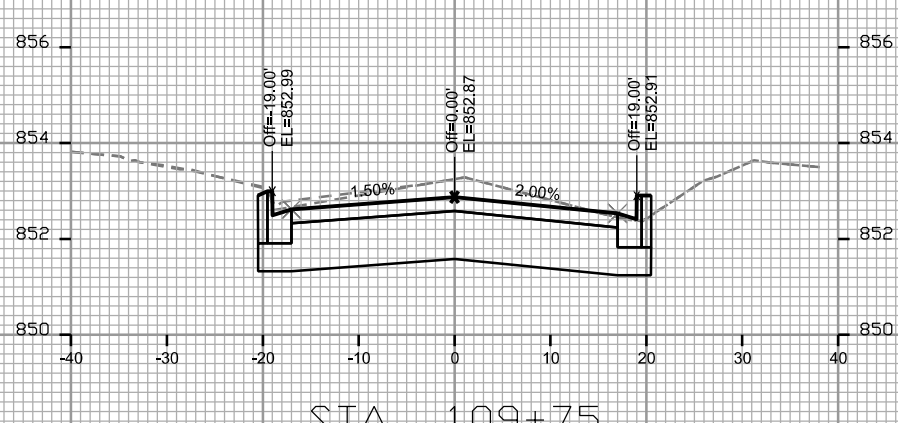
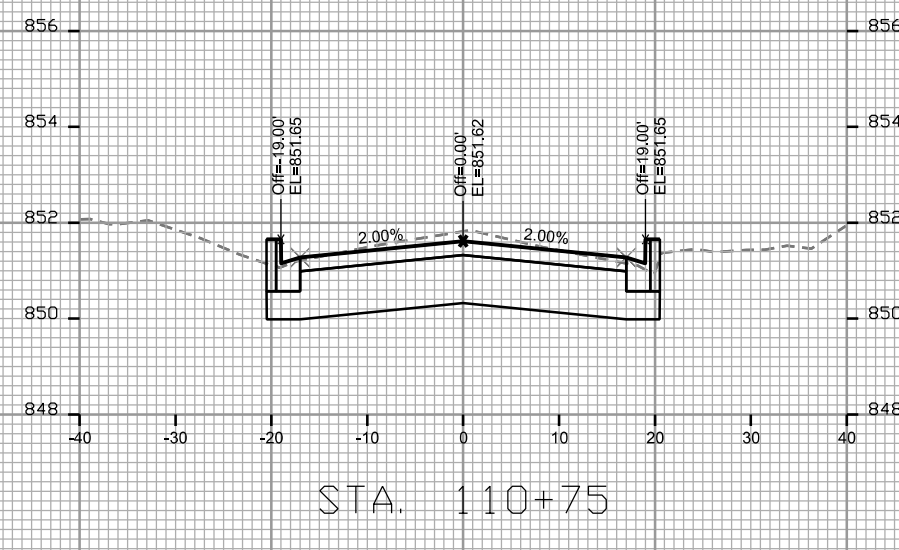
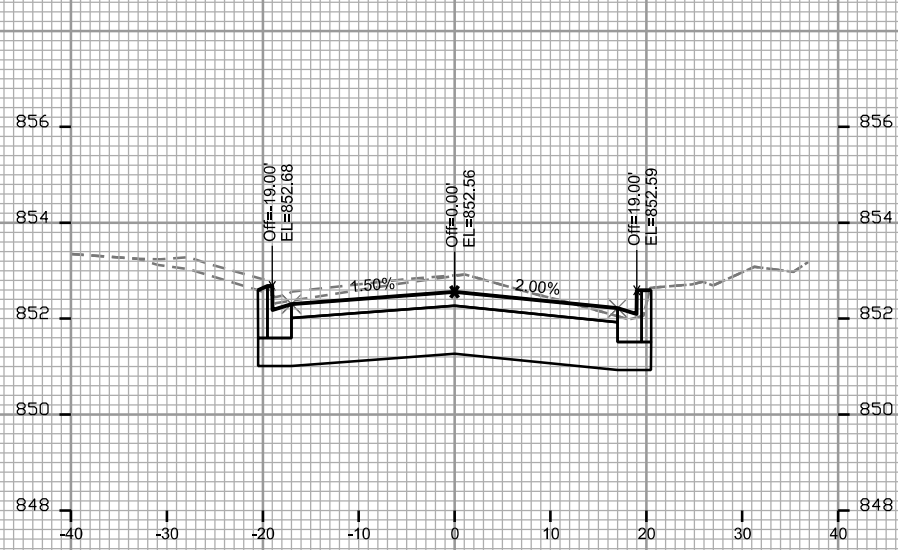
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

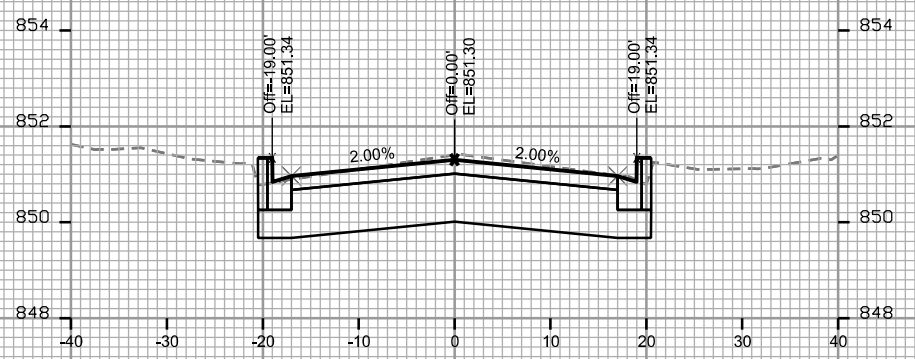


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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 111+00

