

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

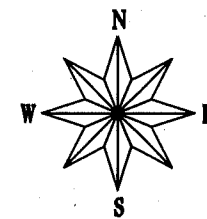
PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

SHEET NO.	TITLE
1	TYPICAL SECTIONS
D-1	INTERSECTION DETAILS
D-2 - D-4	BRIDGE & OUTFALL GRADING DETAIL
D-5	TEMPORARY ACCESS PLAN
D-6	PATH PLAN AND PROFILE
P-1 - P-8	STORM SEWER PLAN AND PROFILE
U-1 - U-8	SANITARY SEWER SCHEDULE
U-9	STORM SEWER SCHEDULES
U-10 - U-11	EROSION CONTROL PLANS
EC-1-EC-8	PAVEMENT MARKING PLAN
PM-1-PM-2	DETOUR PLAN
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SI - S10	PATH CROSS SECTIONS
X-1 - X13	

CAPITAL CITY PATH RECONSTRUCTION AND BRIDGE REPLACEMENT

CITY PROJECT NO. 53W1704 (MUNIS #10382)
CONTRACT NO. 7245



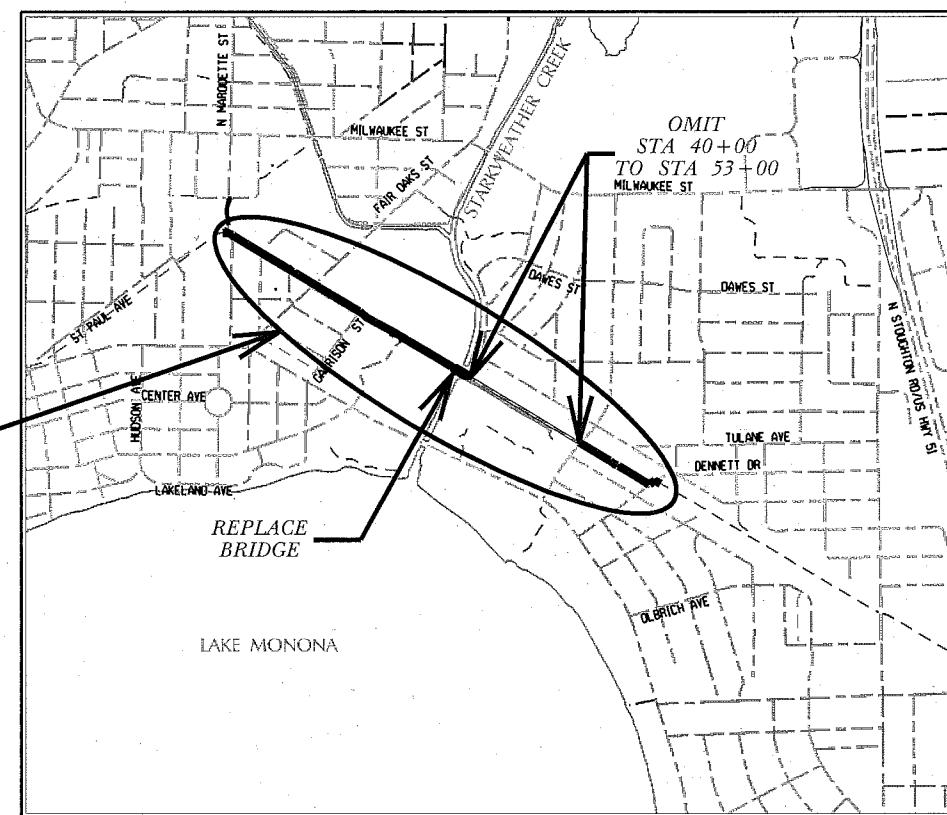
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

NOTES:

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%

STRUCTURE PLANS SI THROUGH S8, PREPARED, STAMPED AND SIGNED BY CONSULTANT

SEE SHEET D-1 FOR EARTHWORK SUMMARY



LOCATION MAP

PUBLIC IMPROVEMENT PROJECT APPROVED
MARCH 17, 2015
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

City Engineer
Date: 4/13/15

PATH AND STREET GRADES
DESIGNED BY:

PAVEMENT MARKING AND DETOUR
DESIGNED BY:

SANITARY SEWER
DESIGNED BY:

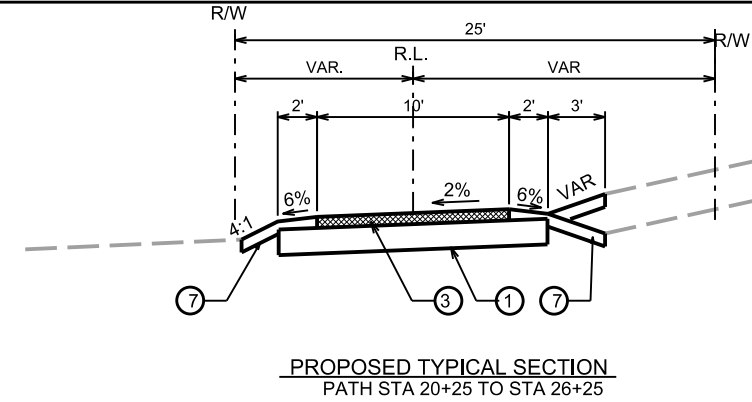
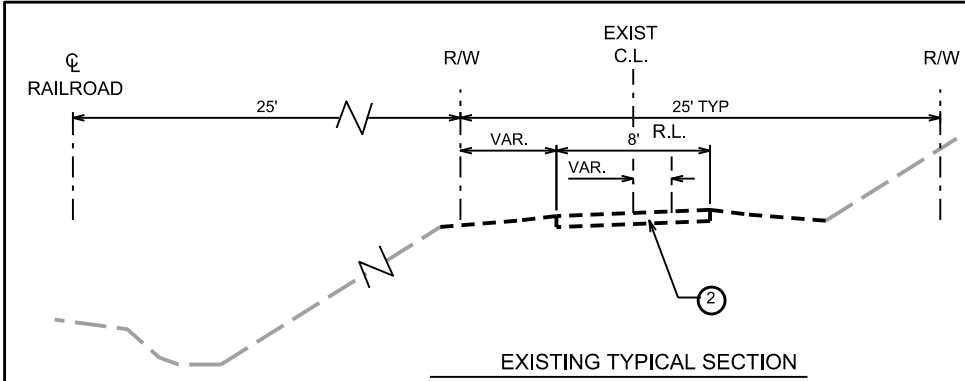
STORM SEWER
DESIGNED BY:

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



- LEGEND**
- ① 8" CRUSHED AGGREGATE BASE COURSE, GRAD. NO. 2
 - ② REMOVE EXISTING ASPHALT PAVEMENT (EXCAVATION CUT)
 - ③ 3" HMA PAVEMENT TYPE E-0.3 (SEE NOTE 1)
 - ④ 12" CRUSHED AGGREGATE BASE COURSE, GRAD. NO. 1 (NOTE 4)
 - ⑤ CONCRETE CURB AND GUTTER 36-INCH, SPECIAL (NOTE 3)
 - ⑥ HEAVY RIPRAP. SEE BRIDGE PLANS.
 - ⑦ 4" TOPSOIL, SEED AND MATTING CL 1 TY URBAN A
 - ⑧ CAST-IN-PLACE CONCRETE WALL (SEE NOTE 2)
 - ⑨ STEEL RAILING (SEE NOTE 2)
 - ⑩ EXISTING HEAVY RIPRAP

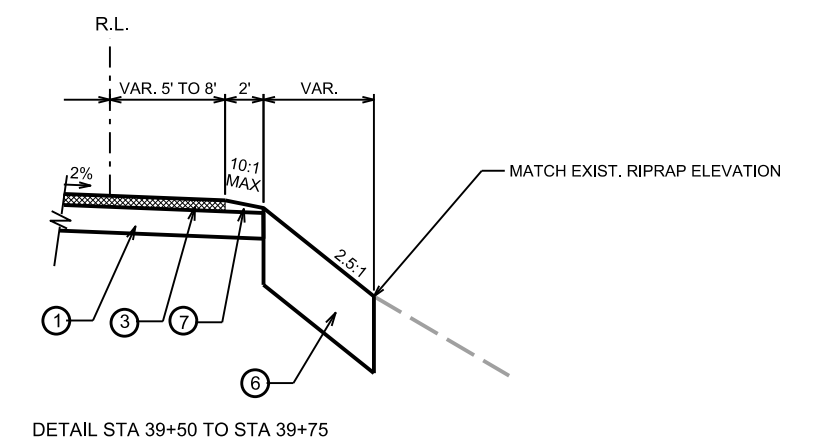
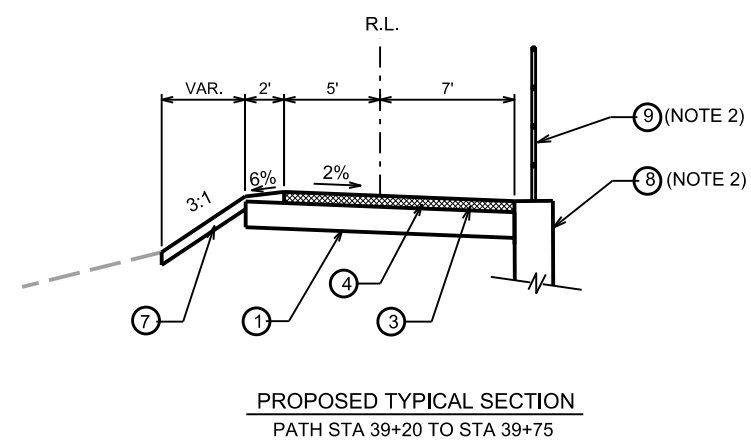
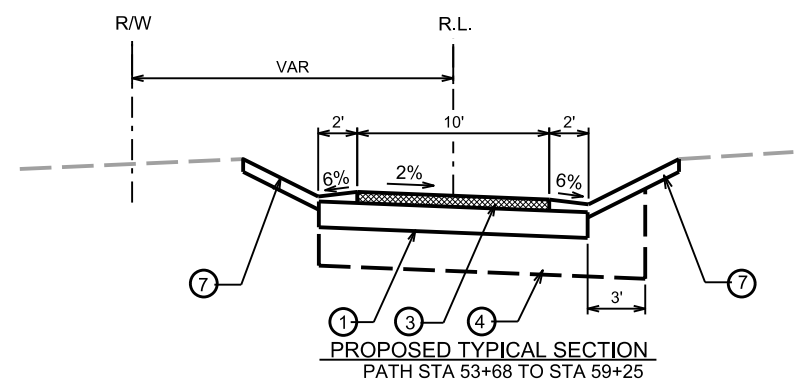
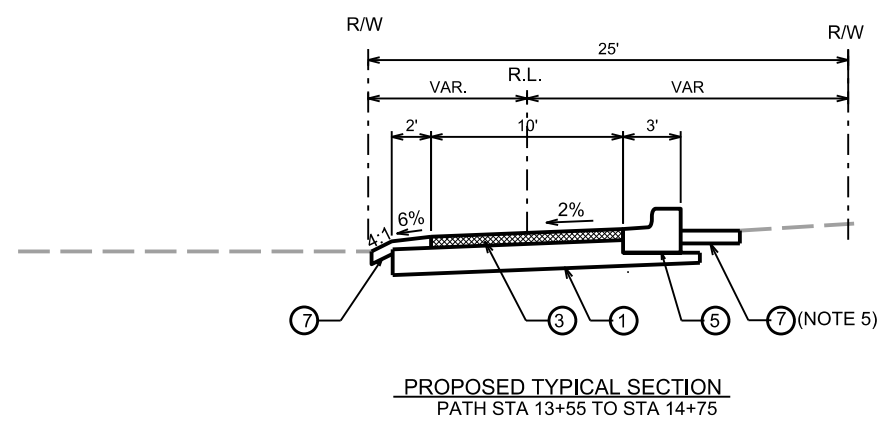
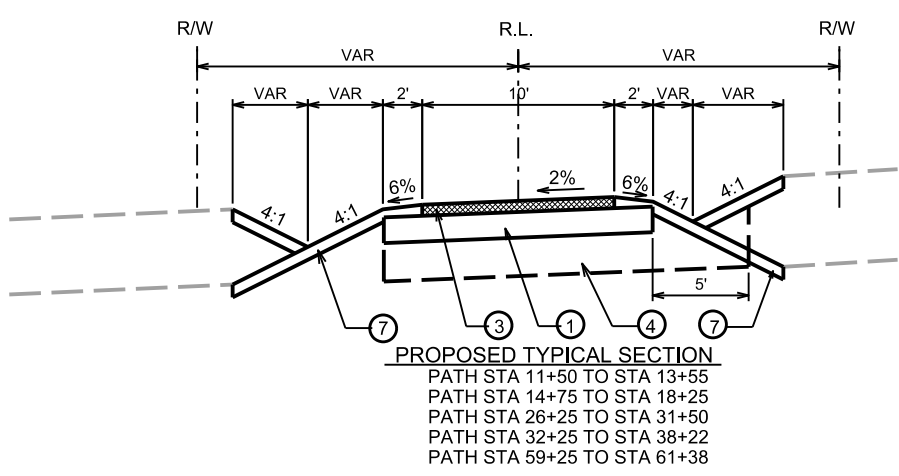
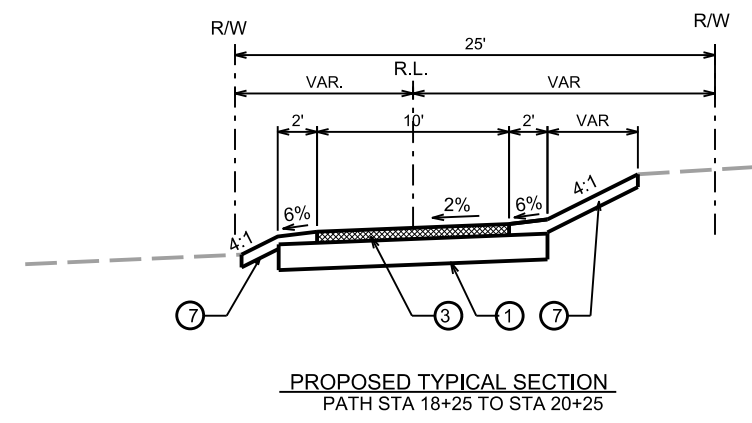
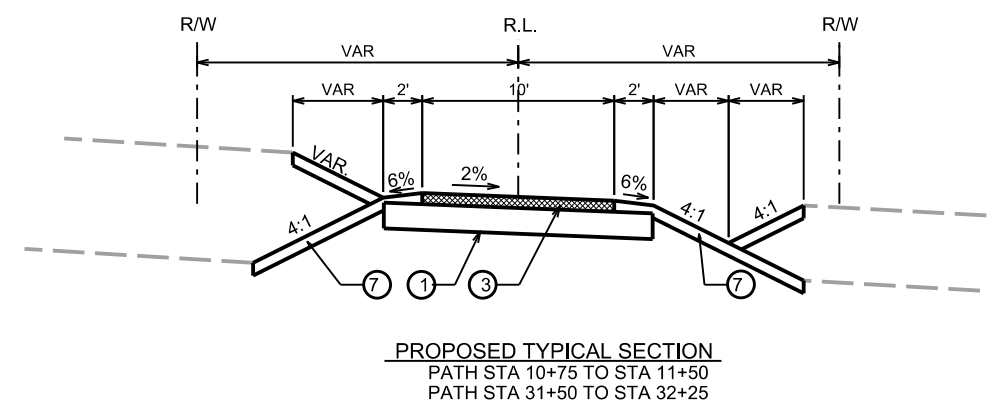
- NOTES**
1. CONSTRUCT HMA PAVEMENTS AS FOLLOWS:

TYPE	LAYER	THICK	NOM. AGG SIZE
3.5" E-0.3	UPPER	1.75"	12.5
	LOWER	1.75"	12.5
3" E-0.3	SINGLE	3.0"	12.5

2. SEE BRIDGE PLANS FOR RAILING AND WALL DETAILS.
3. SEE SHEET D-3 FOR CURB & GUTTER SPECIAL DETAIL.
4. USE SUB-BASE STA 55+40 TO 56+20 AND 59+10 TO 59+90 ONLY.
5. SEE PLAN FOR HARD SURFACE LIMITS IN THIS AREA.

EARTHWORK SUMMARY

UNCLASSIFIED EXCAVATION	1380 CY	(PLAN QUANTITY)
ESTIMATED UNDERCUT (EBS)	480 CY	
EXCAVATION CUT	1860 CY	(PROPOSAL QUANTITY)
FILL (UNADJUSTED)	155 CY	(PLAN QUANTITY)
WASTE	1705 CY	

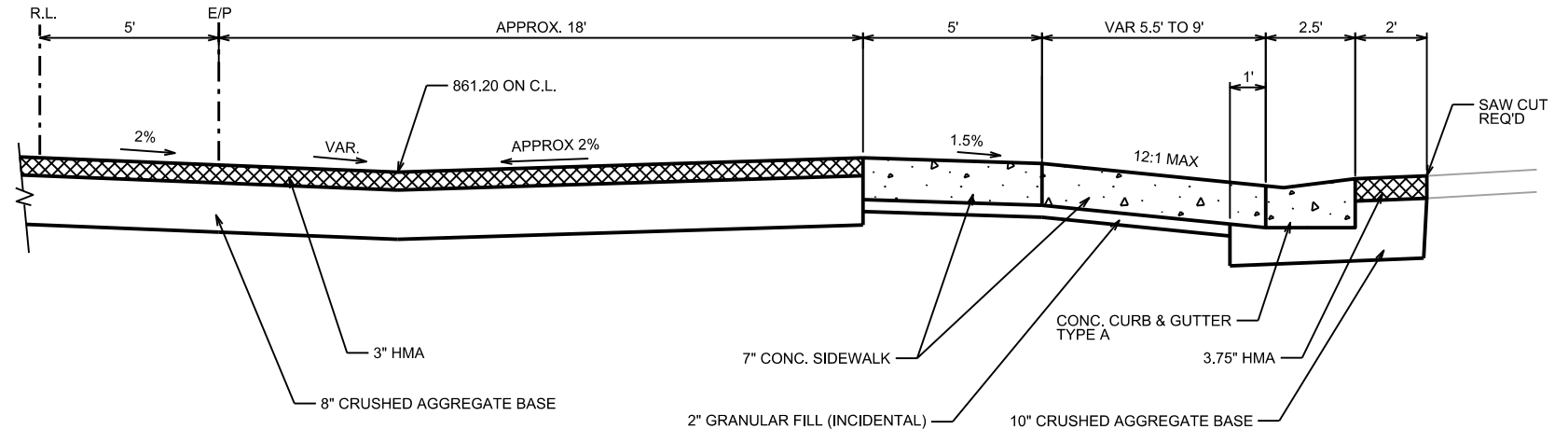
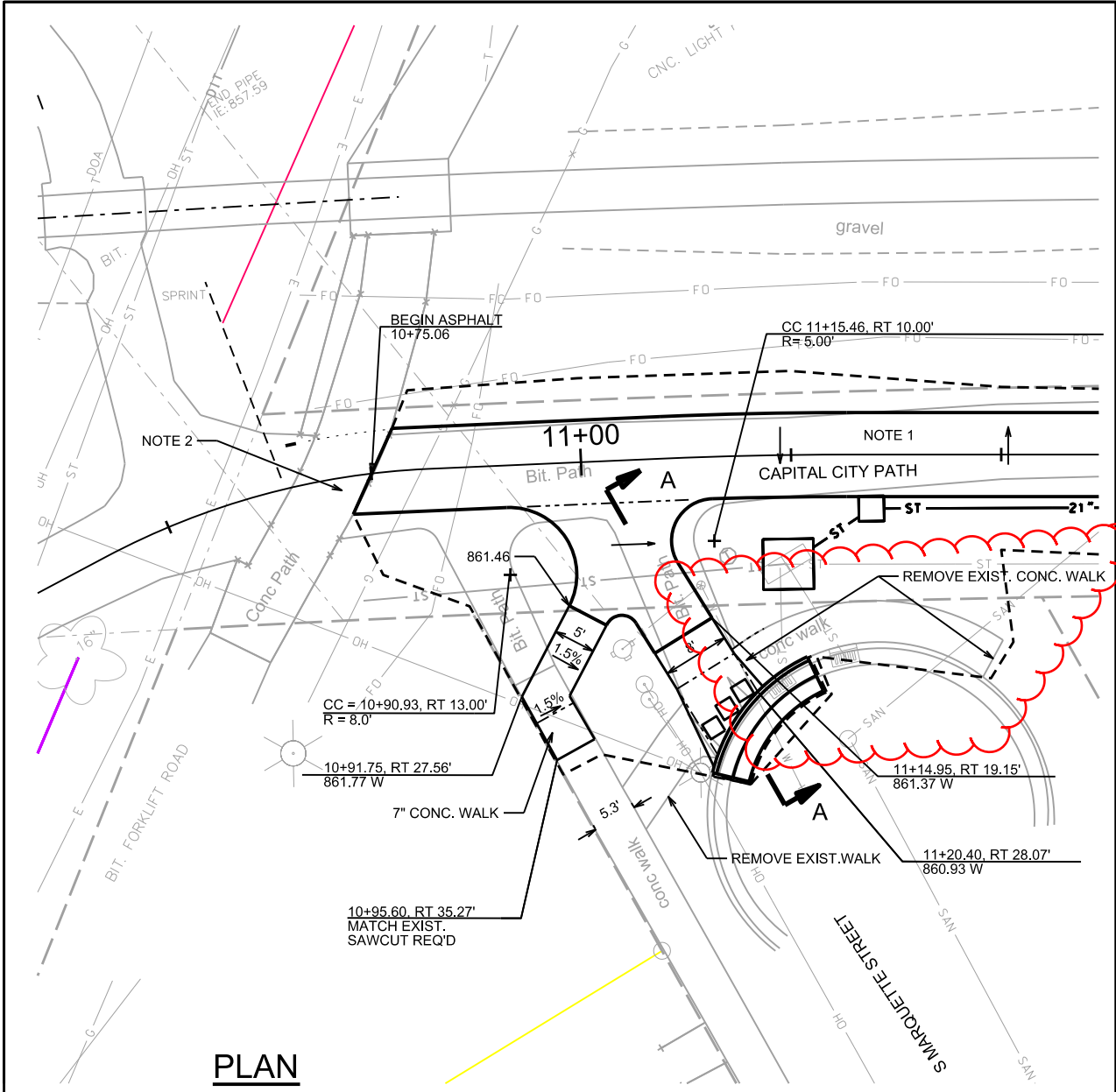


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

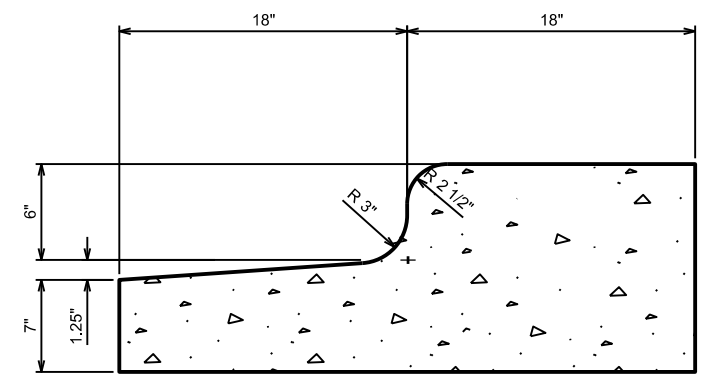
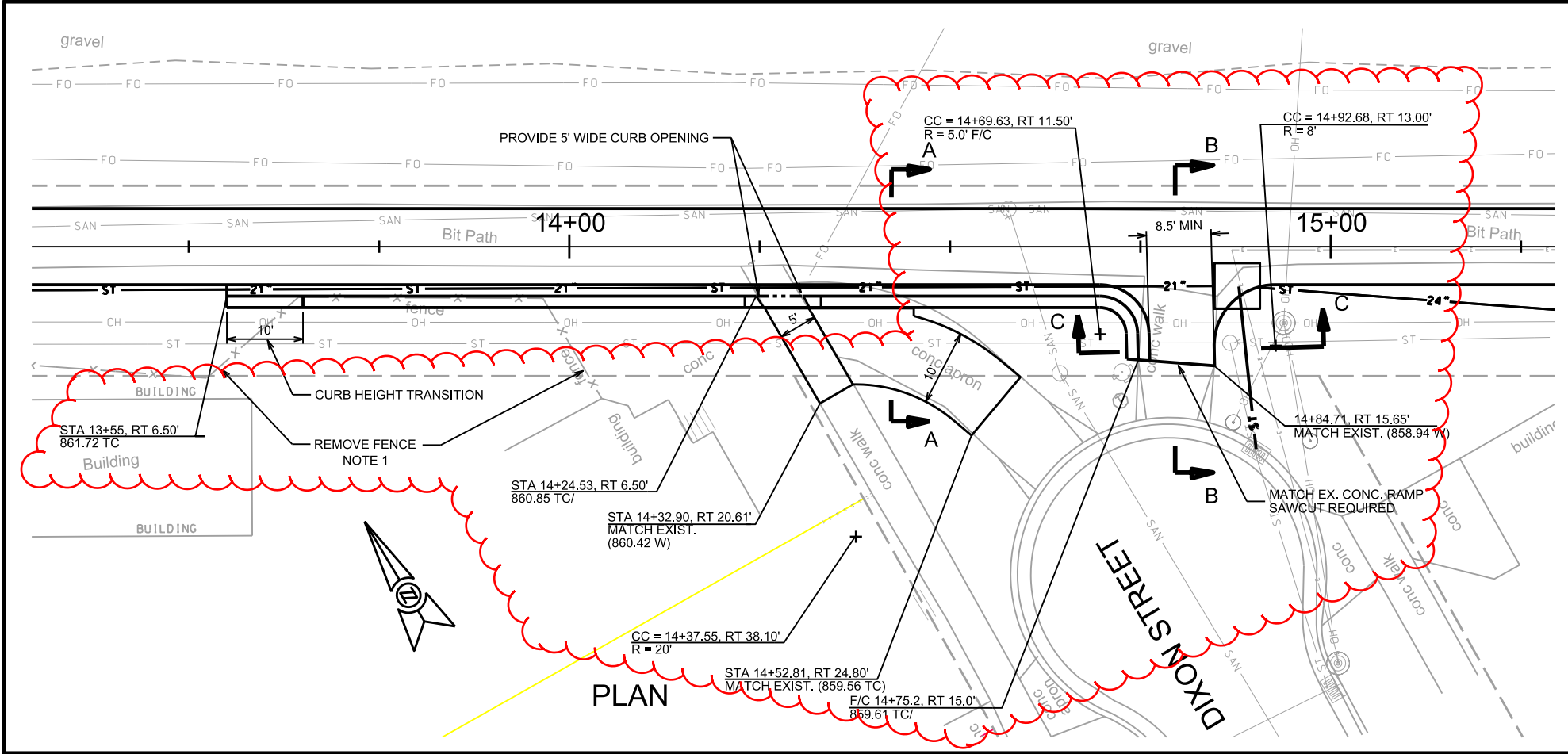


SECTION A-A

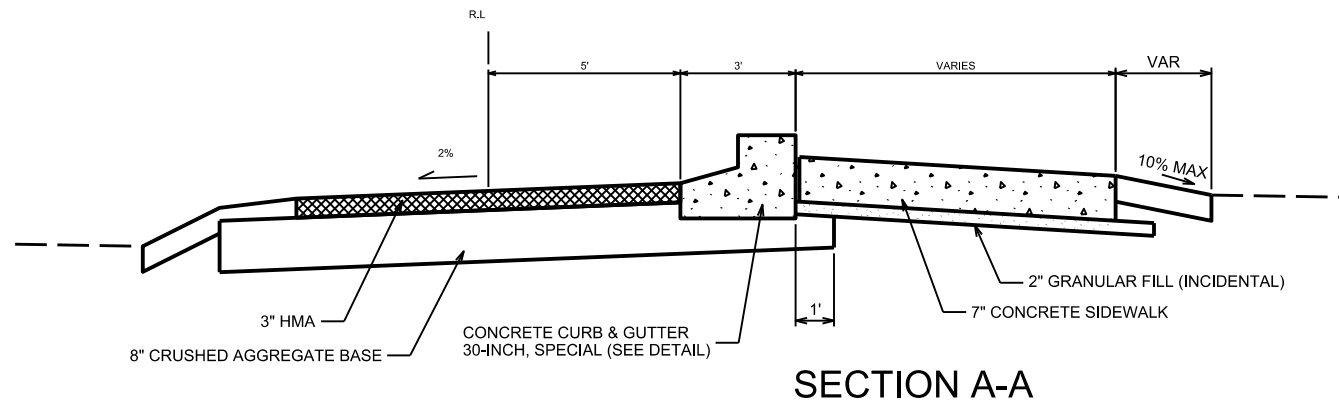
PLAN

- NOTES:
1. REVERSE CROSS SLOPE BETWEEN STA 11+25 AND 11+50
 2. TEMPORARY BICYCLE / PEDESTRIAN CONNECTION FROM MARQUETTE STREET TO THE EXISTING PATH WEST OF THE PROJECT SHALL BE MAINTAINED AT ALL TIMES WHILE DETOUR IS IN PLACE, ON A COMBINATION OF EXISTING, TEMPORARY OR NEW PAVEMENT. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

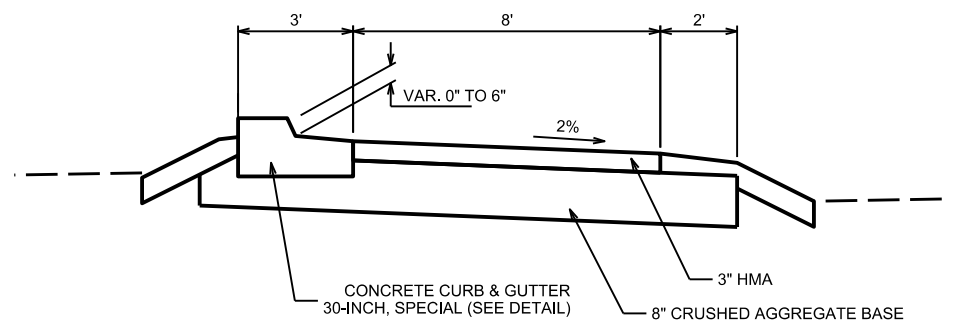
PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



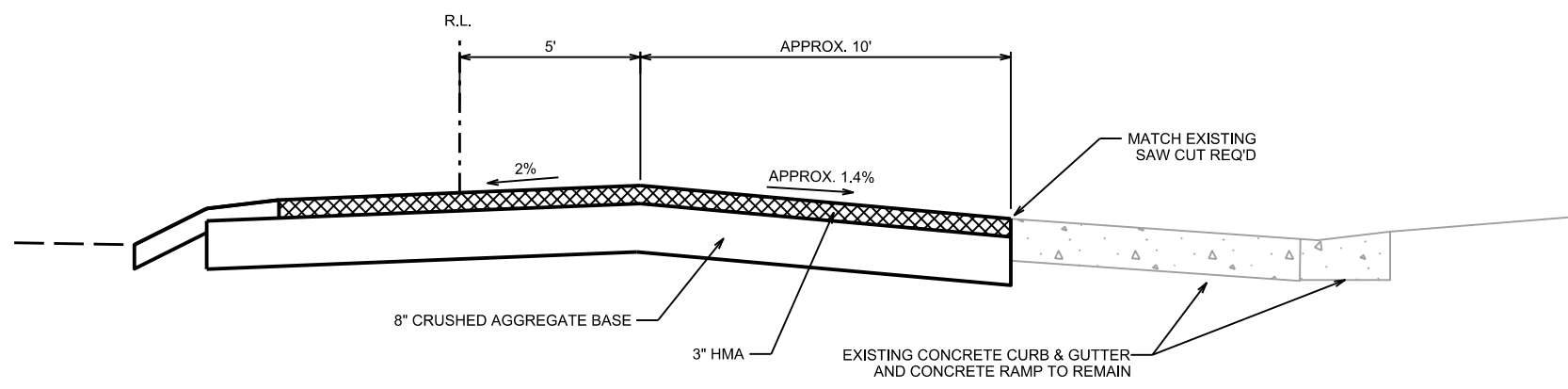
DETAIL CONCRETE CURB & GUTTER
36-INCH, SPECIAL



SECTION A-A



SECTION C-C



SECTION B-B

- NOTES:
1. CONTRACTOR SHALL NOTIFY PROPERTY OWNER A MINIMUM OF 5 WORKING DAYS PRIOR TO REMOVING FENCE TO GIVE OWNER AN OPORTUNITY TO REMOVE OR MOVE FENCE TO PRIVATE PROPERTY.

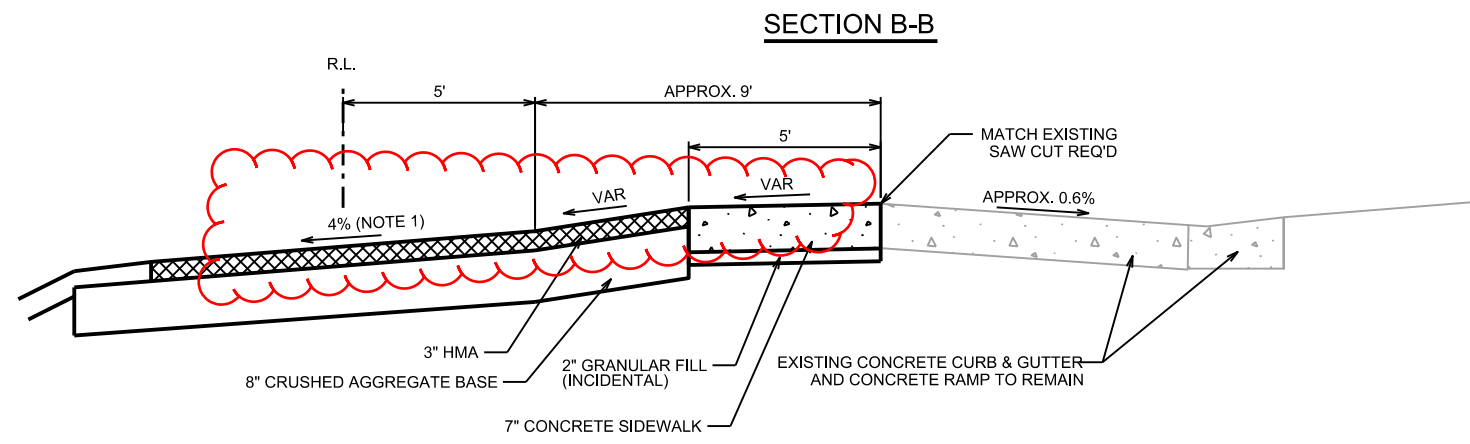
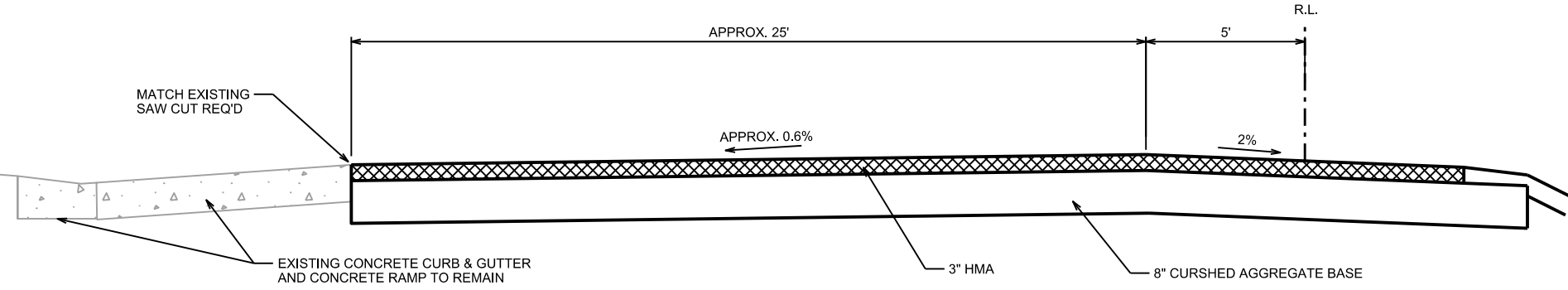
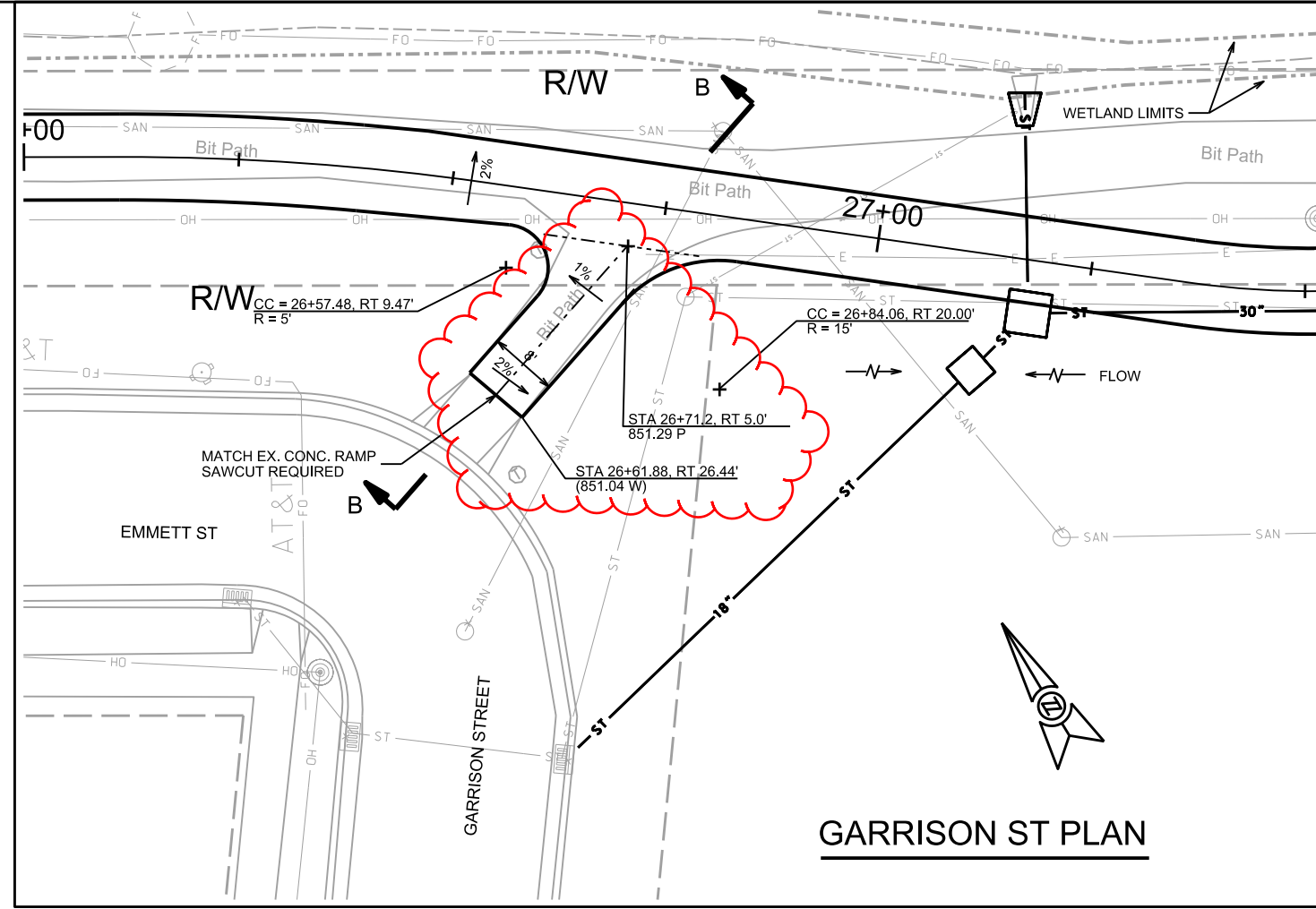
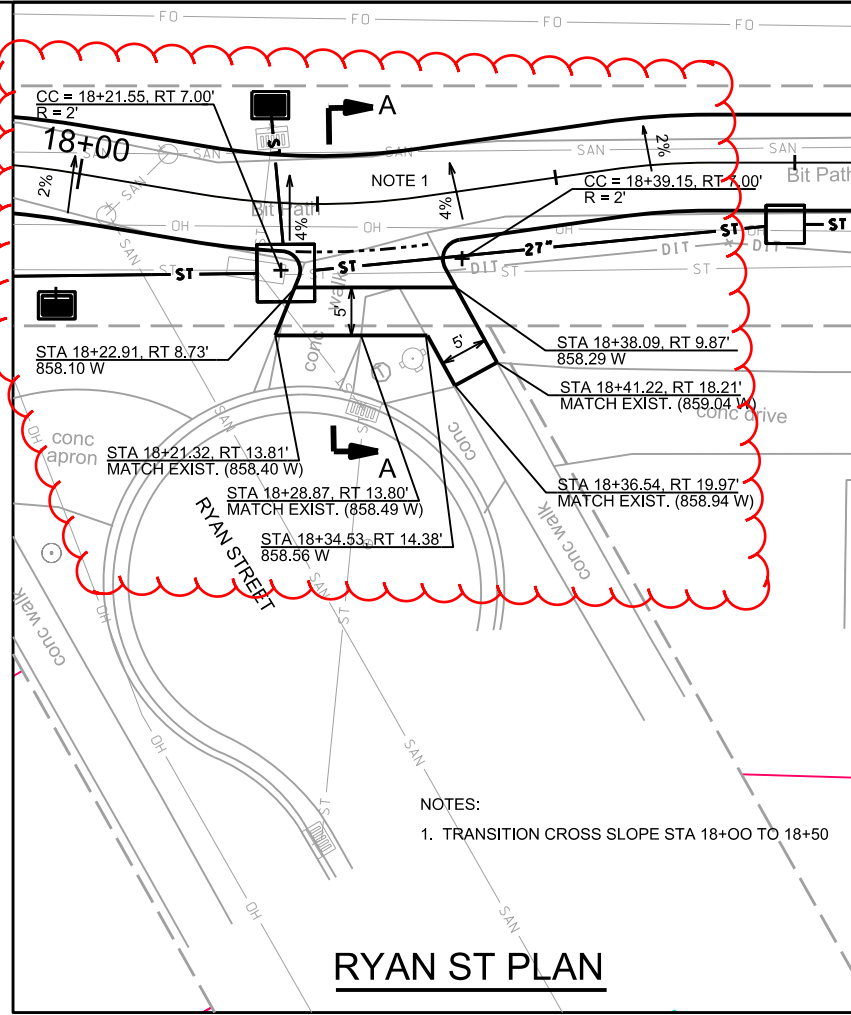
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PLOT NAME: _____

REV. DATE: _____

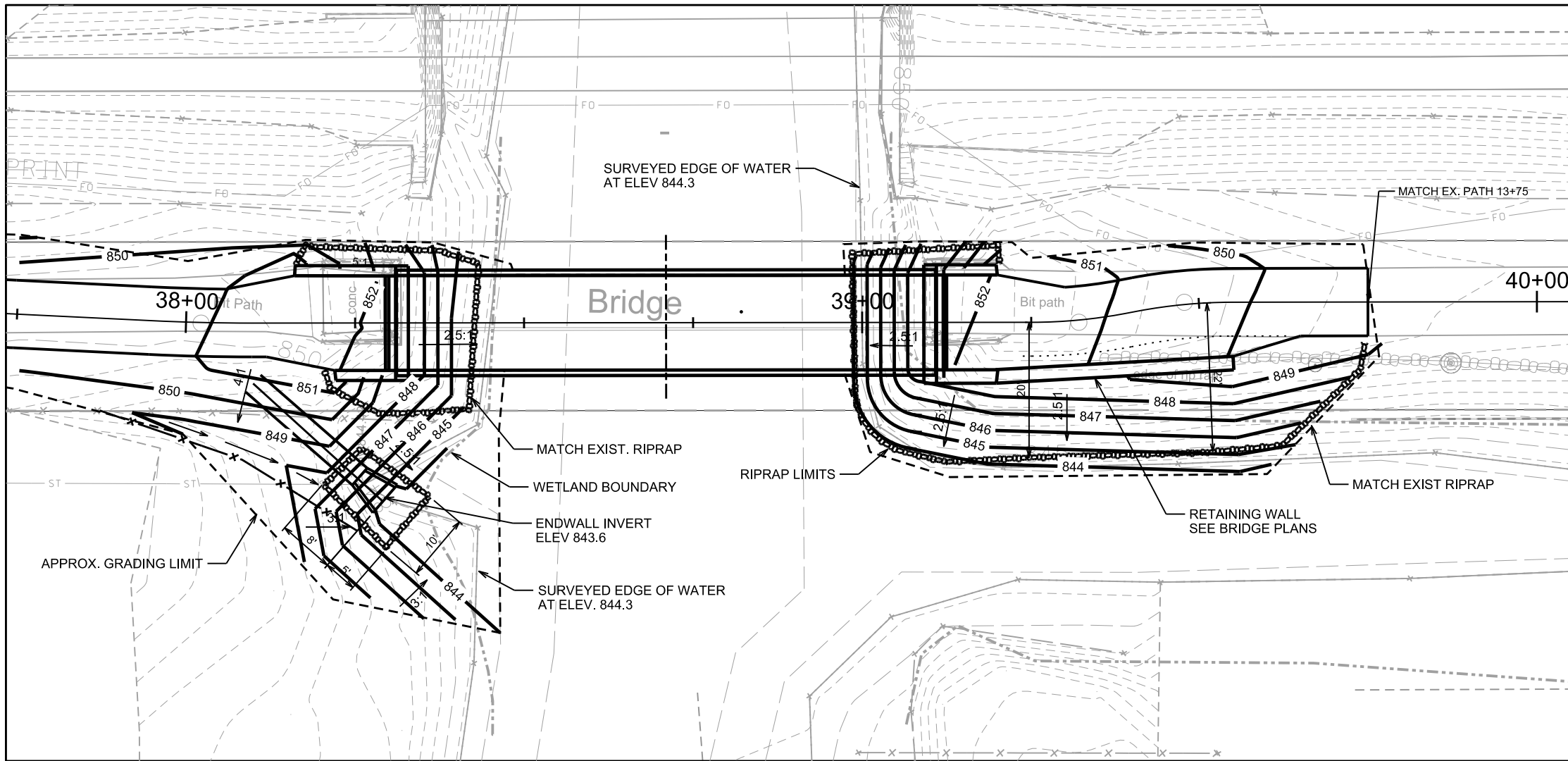
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV: 9-02-15 ASF



NOTES:
1. TRANSITION CROSS SLOPE STA 18+00 TO 18+20 AND STA 18+40 TO 18+50

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



PLAN

NOTES:

1. SEE STRUCTURE PLANS FOR ADDITIONAL RIPRAP DETAILS AND CRITICAL ELEVATIONS AT STRUCTURE.
2. SEE STORM SEWER SCHEDULE FOR LOCATION OF ENDWALL.

PLOT SCALE: _____

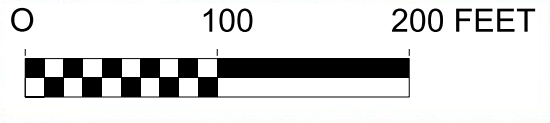
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



ACCESS ROUTE



GARVER PROPERTY

R/W

CONSTRUCTION ENTRANCE

EMMET ST

OLBRICH PARK

SUGAR AV

DALEY DR

S FAIR OAKS AVE

PLOT SCALE: _____

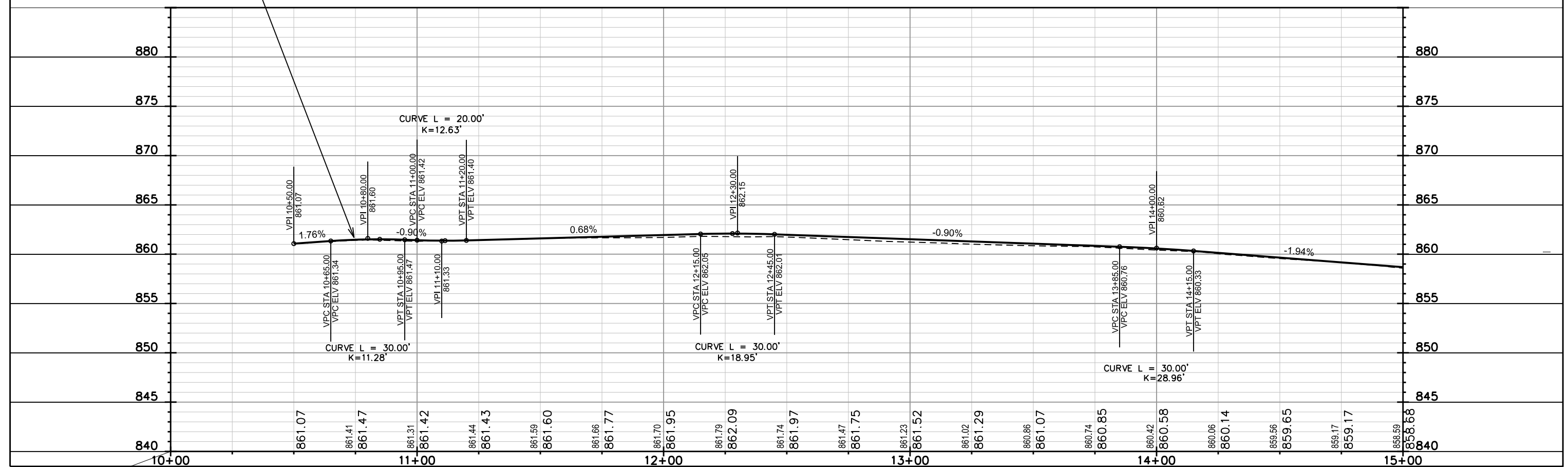
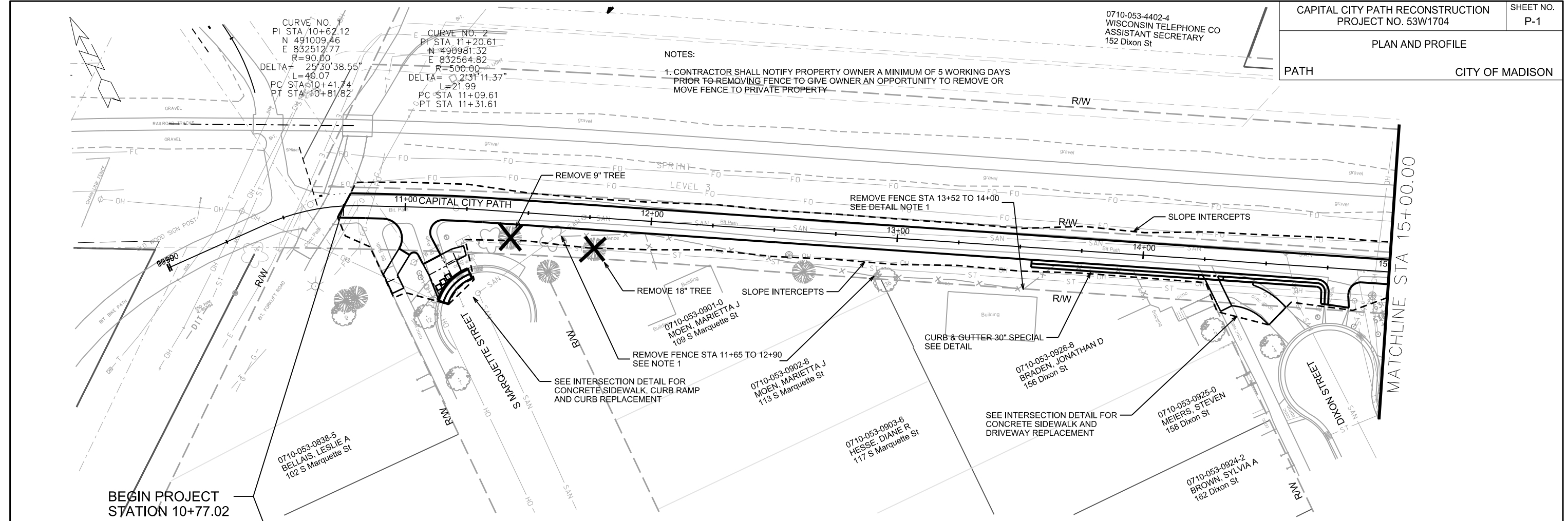
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-053-4402-4
WISCONSIN TELEPHONE CO
ASSISTANT SECRETARY
152 Dixon St

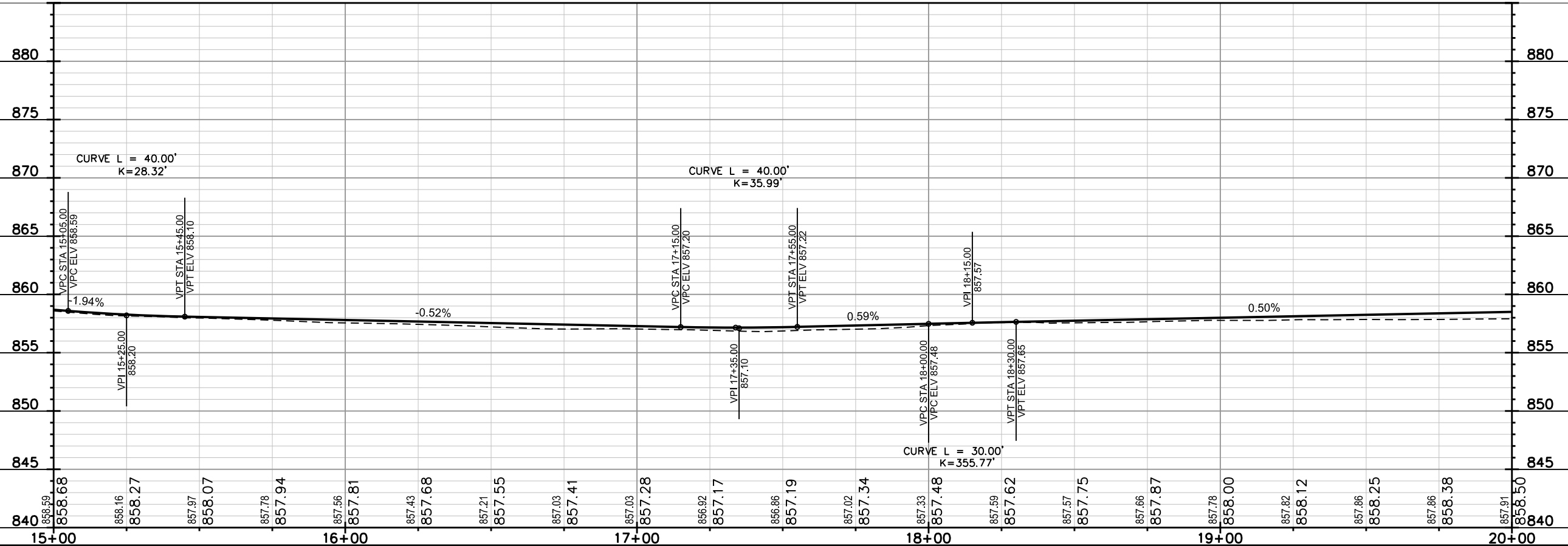
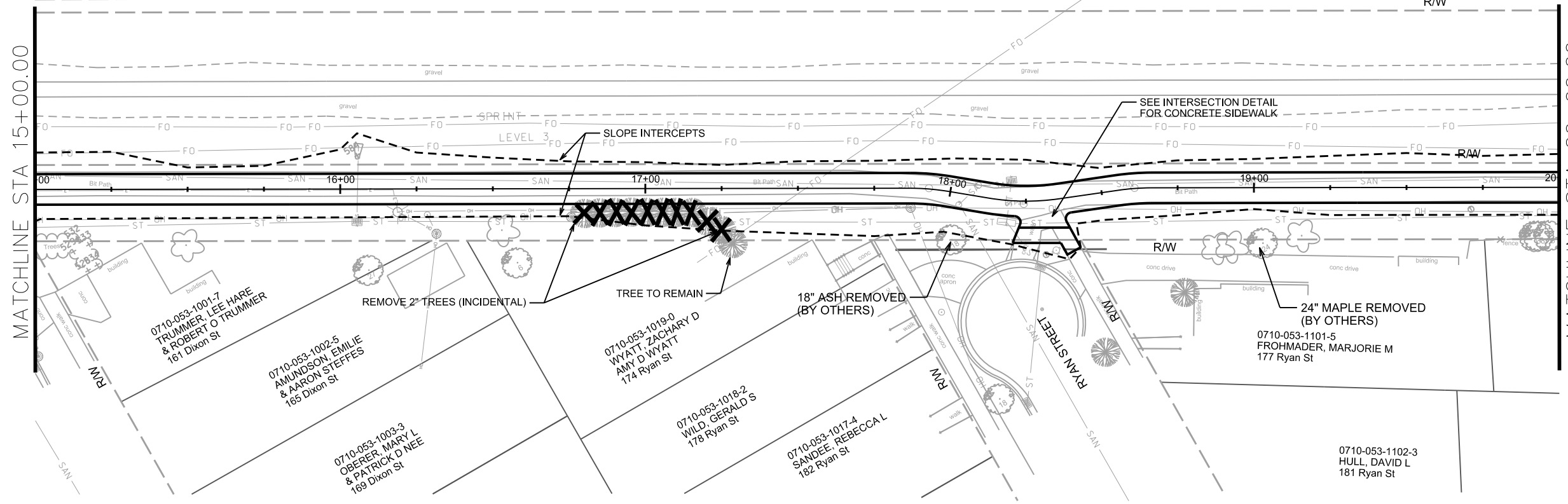
NOTES:
1. CONTRACTOR SHALL NOTIFY PROPERTY OWNER A MINIMUM OF 5 WORKING DAYS PRIOR TO REMOVING FENCE TO GIVE OWNER AN OPPORTUNITY TO REMOVE OR MOVE FENCE TO PRIVATE PROPERTY



CURVE NO. 3
PI STA 17+92.94
N 490635.88
E 833141.62
R=75.00
DELTA= 9'30"38.27"
L=12.45
PC STA 17+86.70
PT STA 17+99.15

CURVE NO. 4
PI STA 18+24.40
N 490615.46
E 833165.59
R=75.00
DELTA= 17'39"57.43"
L=23.12
PC STA 18+12.74
PT STA 18+35.87

CURVE NO. 5
PI STA 18+60.89
N 490601.27
E 833199.41
R=75.00
DELTA= 8'09"21.03"
L=10.68
PC STA 18+55.54
PT STA 18+66.22



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

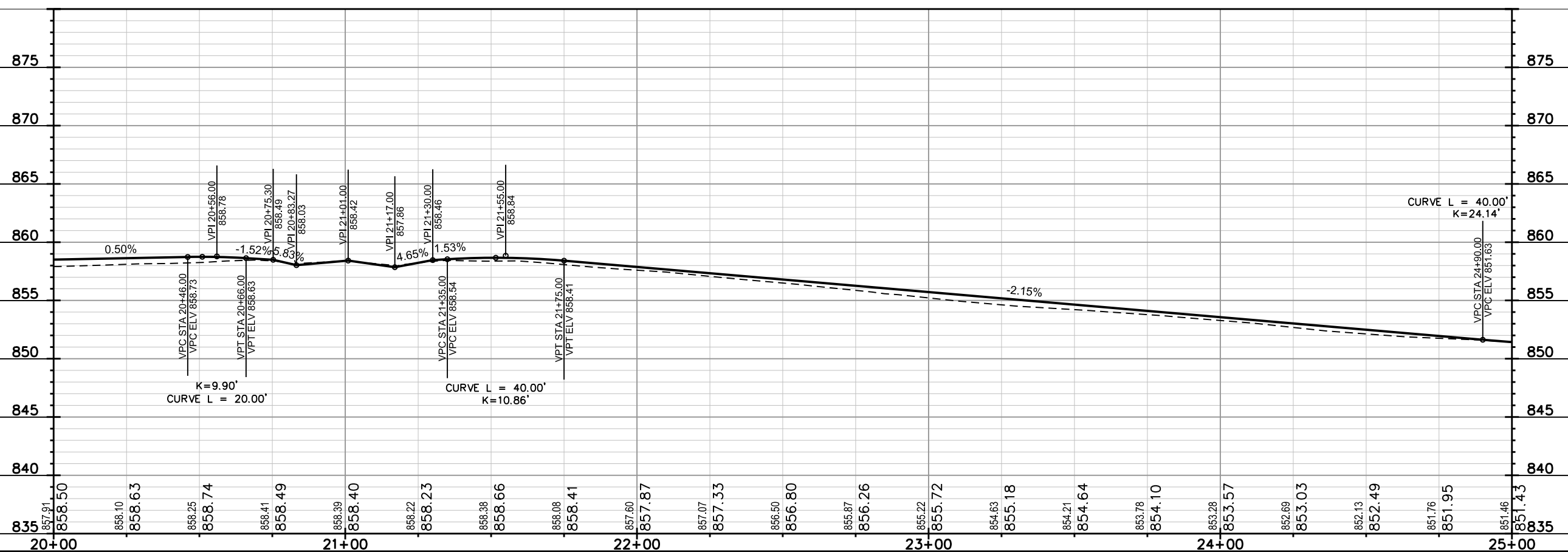
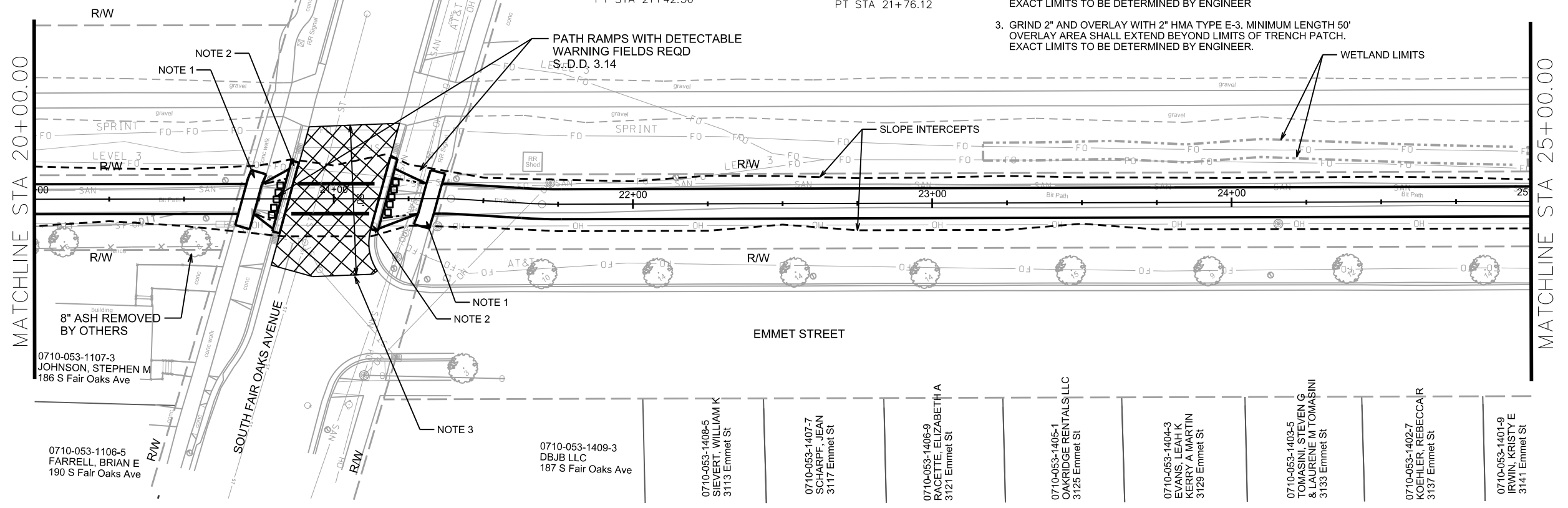
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CURVE NO. 6
PI STA 21+39.19
N 490458.27
E 833438.18
R=100.00
DELTA= 3'38'01.16"
L=6.34
PC STA 21+36.02
PT STA 21+42.36

R/W

CURVE NO. 7
PI STA 21+69.64
N 490441.00
E 833463.26
R=200.00
DELTA= 3'42'55.18"
L=12.97
PC STA 21+63.15
PT STA 21+76.12

- 0710-054-0097-5
OAK PARK PROPERTIES LLC
131 S Fair Oaks Ave
- NOTES
1. REMOVE CONC. WALK AND REPLACE WITH CONC. SIDEWALK 7-INCH. EXACT LIMITS TO BE DETERMINED BY ENGINEER
 2. REMOVE CONC. CURB & GUTTER AND REPLACE WITH CONC. CURB & GUTTER. EXACT LIMITS TO BE DETERMINED BY ENGINEER
 3. GRIND 2" AND OVERLAY WITH 2" HMA TYPE E-3. MINIMUM LENGTH 50'. OVERLAY AREA SHALL EXTEND BEYOND LIMITS OF TRENCH PATCH. EXACT LIMITS TO BE DETERMINED BY ENGINEER.



PLOT SCALE: _____

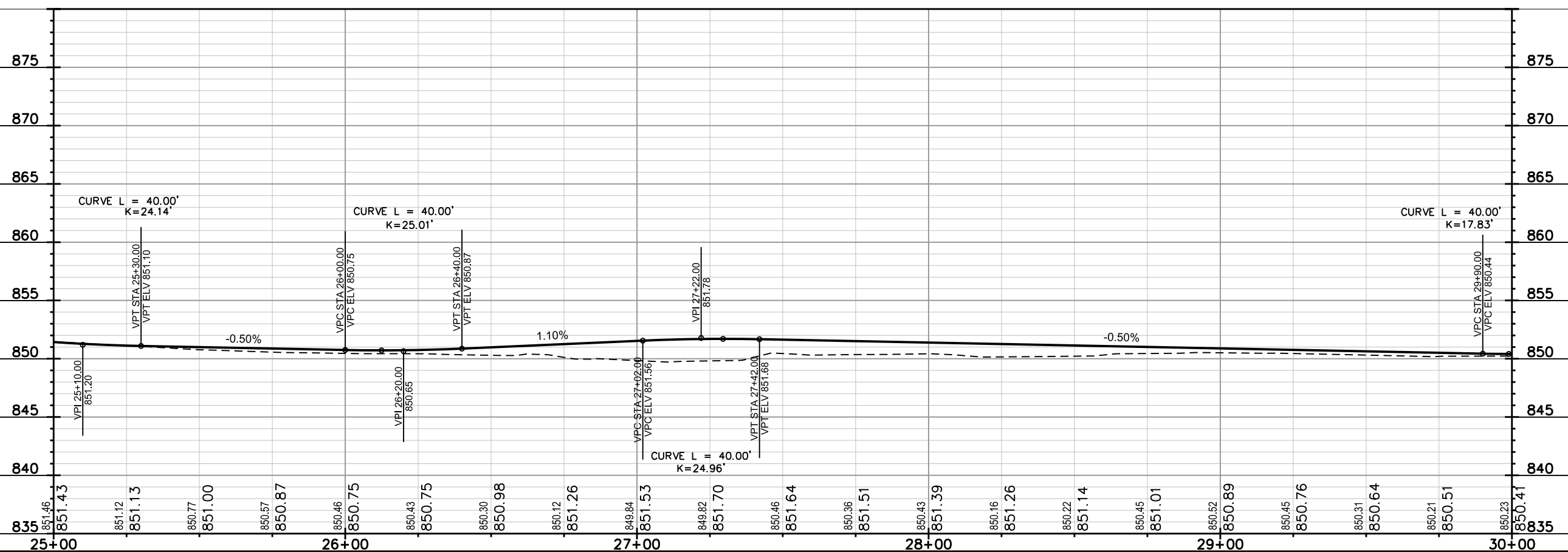
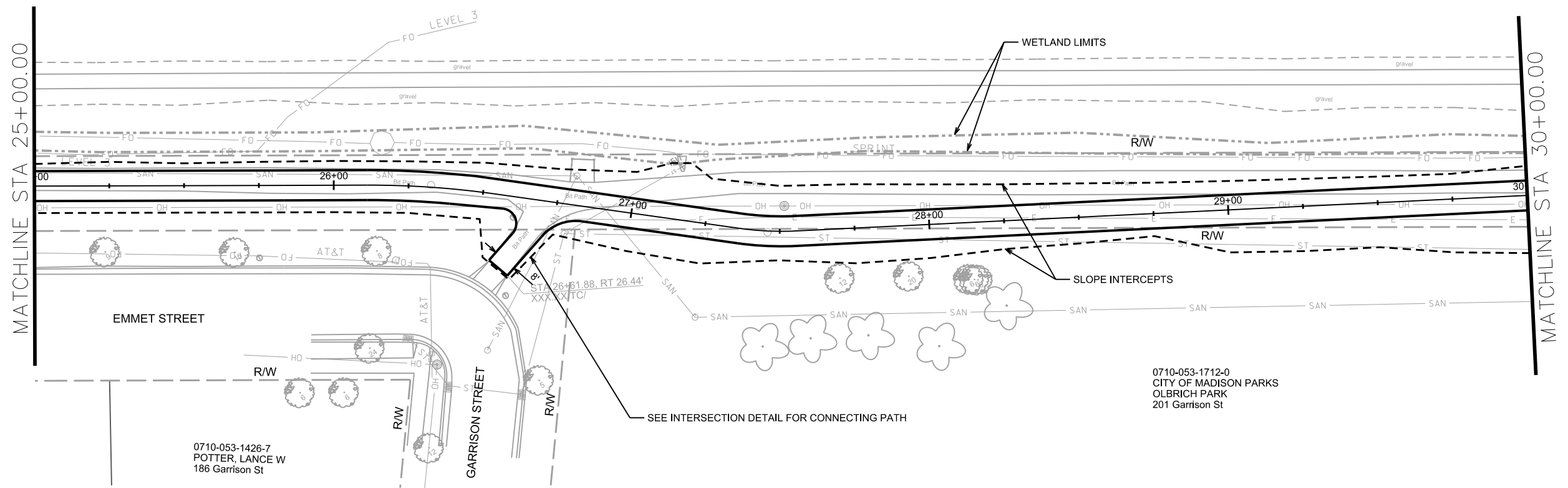
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-054-0098-3
CITY OF MADISON PARKS
OLBRICH PARK
115 S Fair Oaks Ave

CURVE NO. 8
PI STA 26+32.54
N 490203.72
E 833860.73
R=300.00
DELTA= 8°10'42.36"
L=42.82
PC STA 26+11.09
PT STA 26+53.91

CURVE NO. 9
PI STA 27+45.95
N 490132.28
E 833948.91
R=100.00
DELTA= 10°47'33.48"
L=18.84
PC STA 27+36.51
PT STA 27+55.35

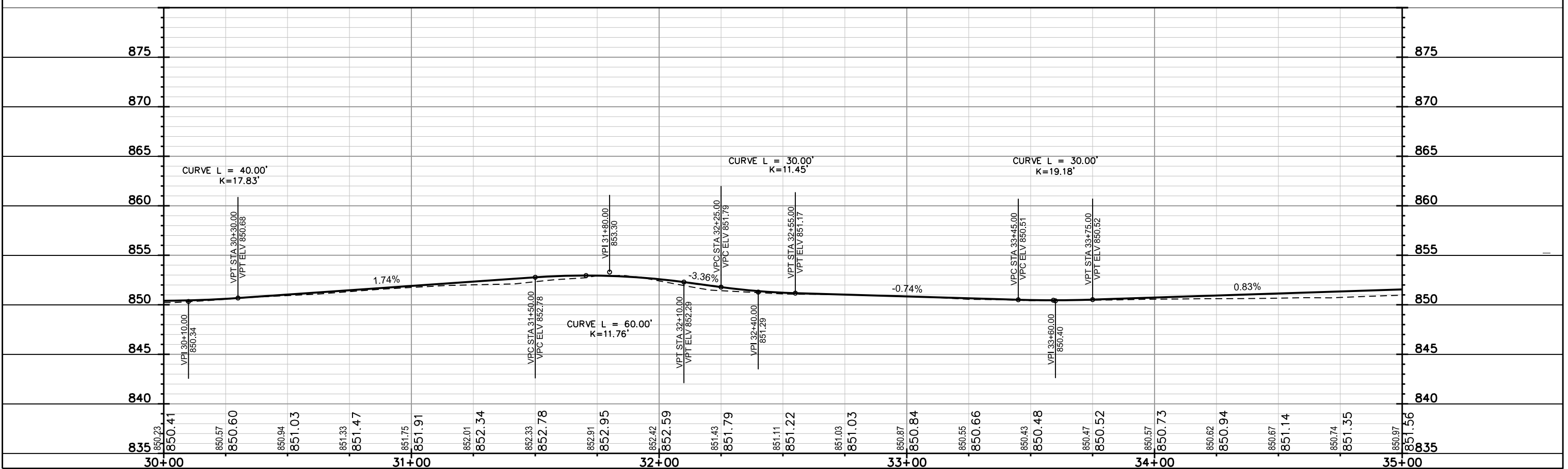
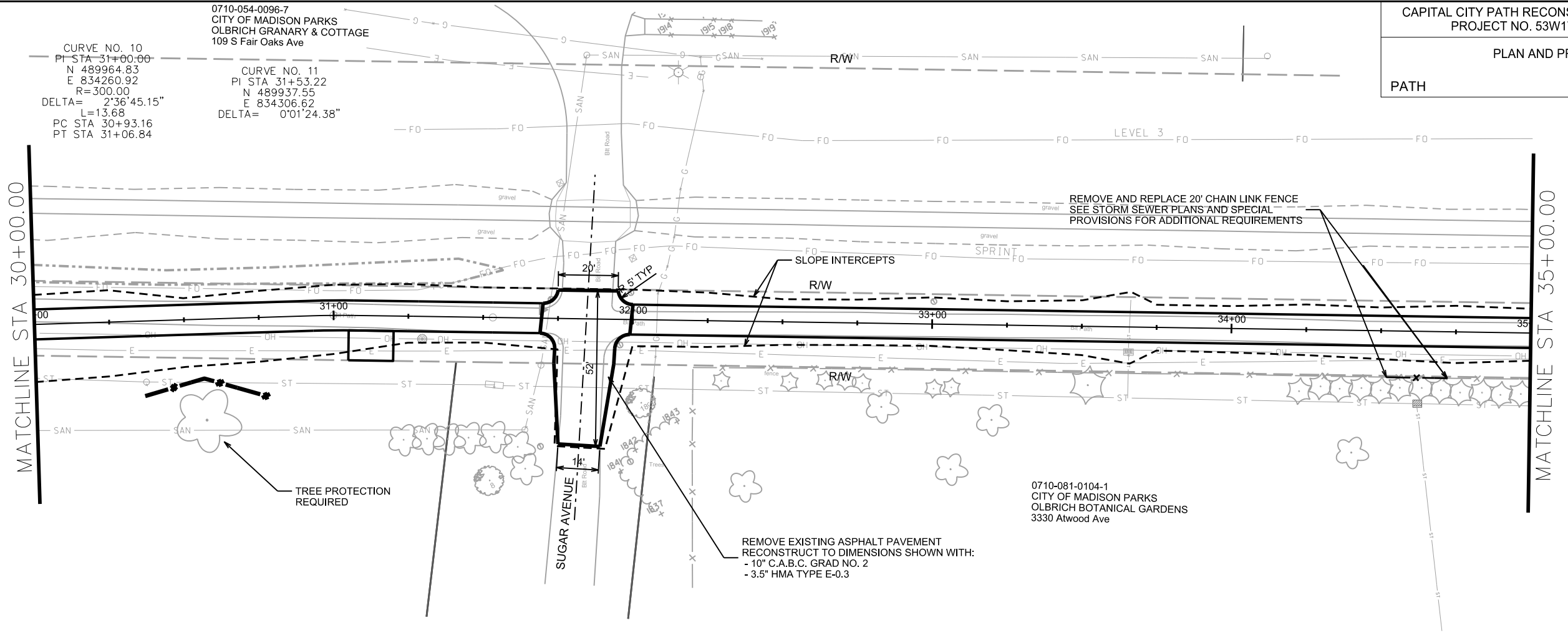


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

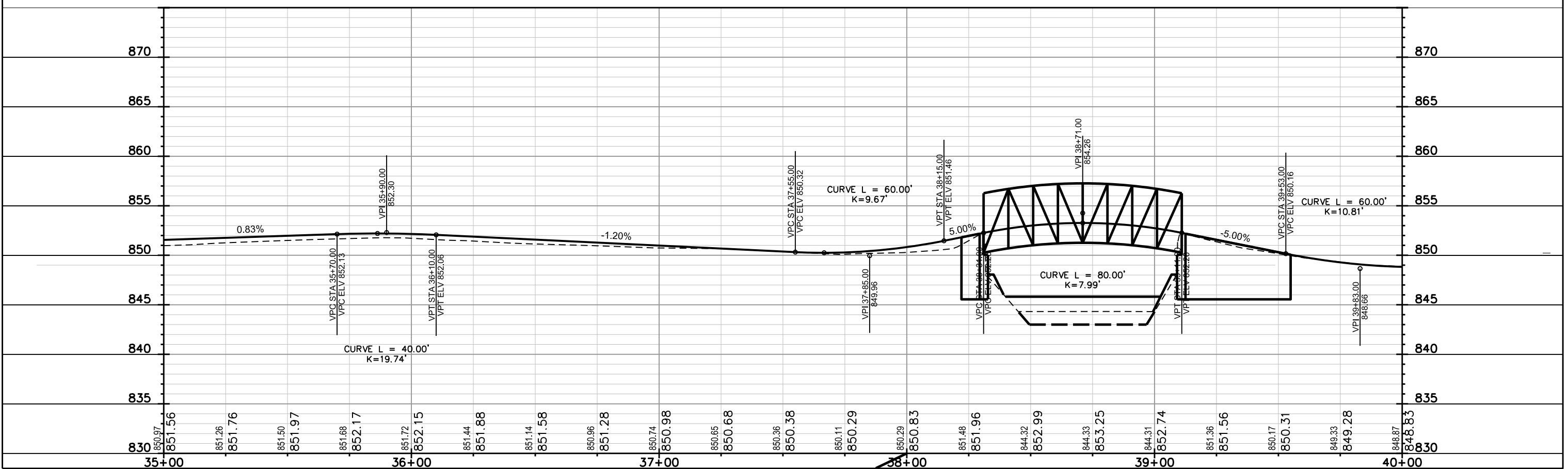
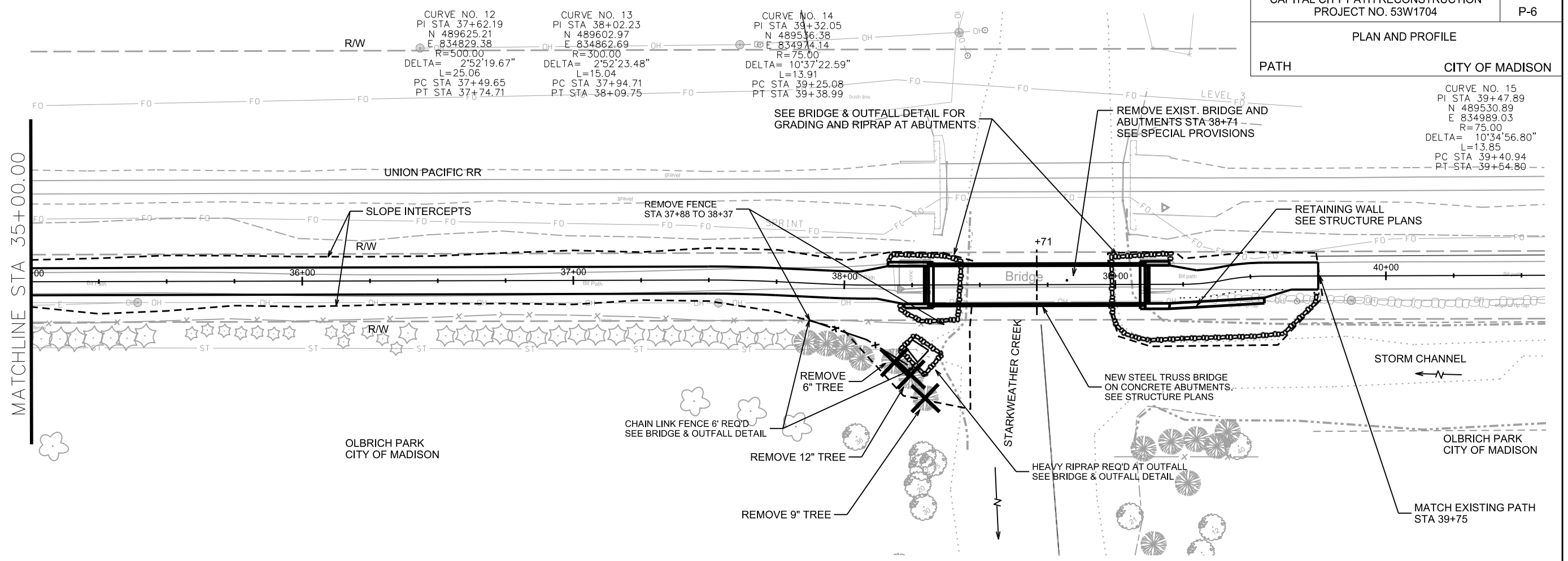


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-092-2019-7
CITY OF MADISON ENGINEER
STORMWATER UTILITY 533
3501 Hargrove St

CURVE NO. 18
PI STA 56+92.17
N 488638.23
E 836487.61
R=75.00
DELTA= 7°07'17.22"
L=9.32
PC STA 56+87.50
PT STA 56+96.82

CURVE NO. 19
PI STA 57+43.00
N 488606.97
E 836527.72
R=75.00
DELTA= 14°13'41.85"
L=18.62
PC STA 57+33.64
PT STA 57+52.27

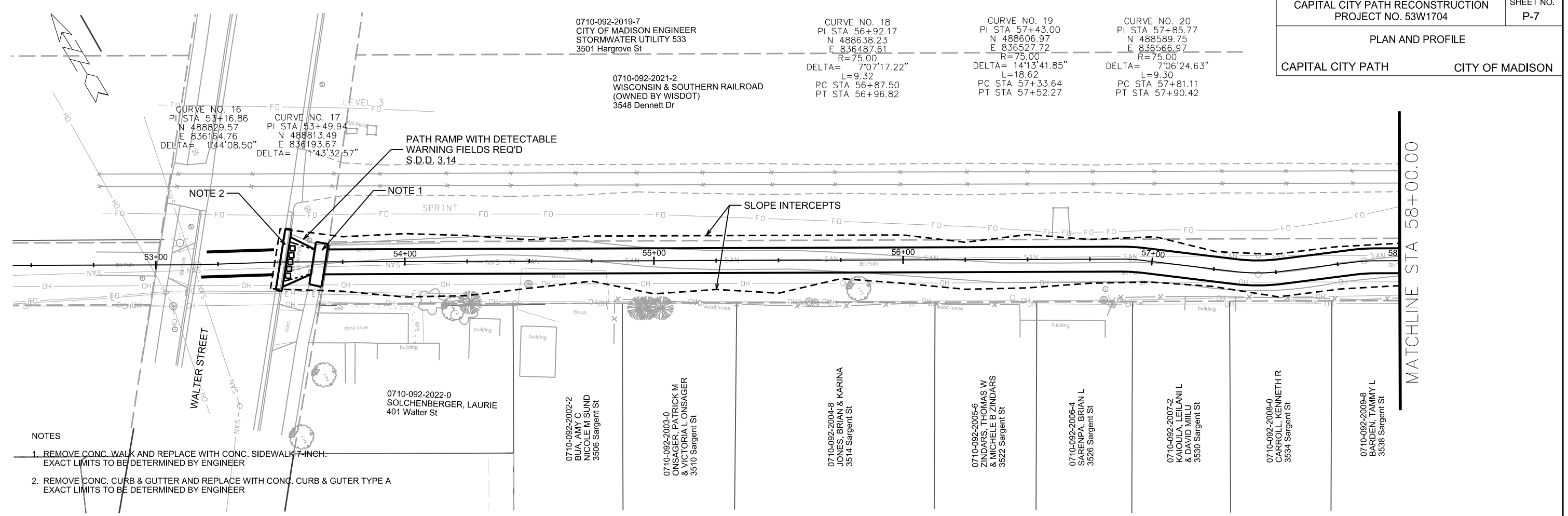
CURVE NO. 20
PI STA 57+85.77
N 488589.75
E 836566.97
R=75.00
DELTA= 7°06'24.63"
L=9.30
PC STA 57+81.11
PT STA 57+90.42

0710-092-2021-2
WISCONSIN & SOUTHERN RAILROAD
(OWNED BY WISDOT)
3548 Dennett Dr

CURVE NO. 16
PI STA 53+16.86
N 488829.57
E 836164.76
DELTA= 1°44'08.50"

CURVE NO. 17
PI STA 53+49.94
N 488813.49
E 836193.67
DELTA= 1°43'32.57"

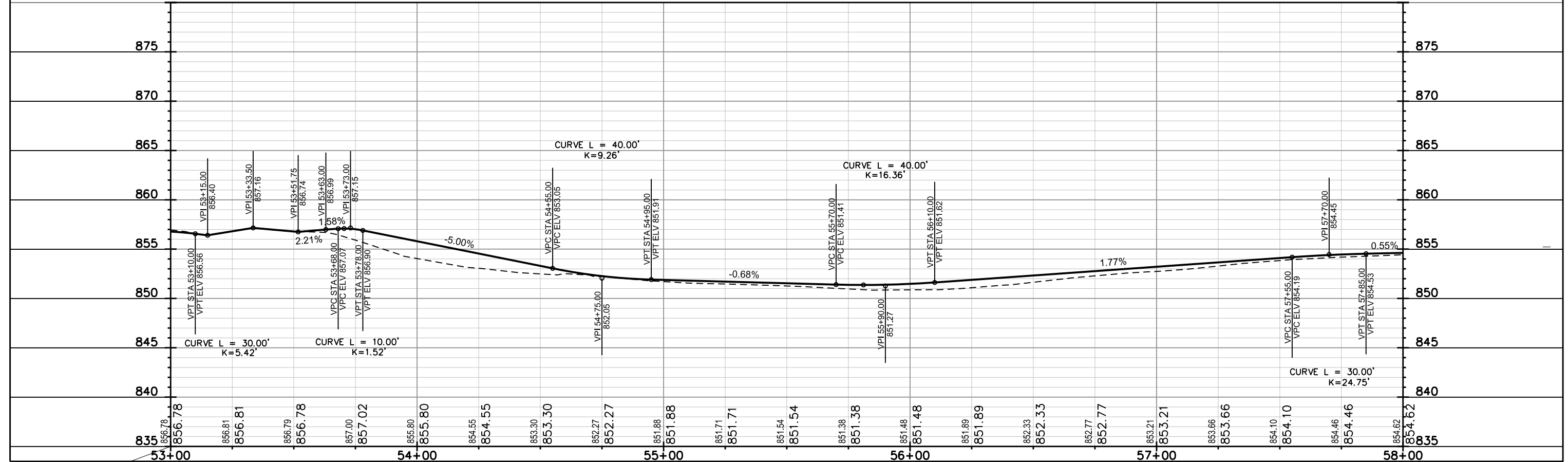
PATH RAMP WITH DETECTABLE
WARNING FIELDS REQ'D
S.D.D. 3.14



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



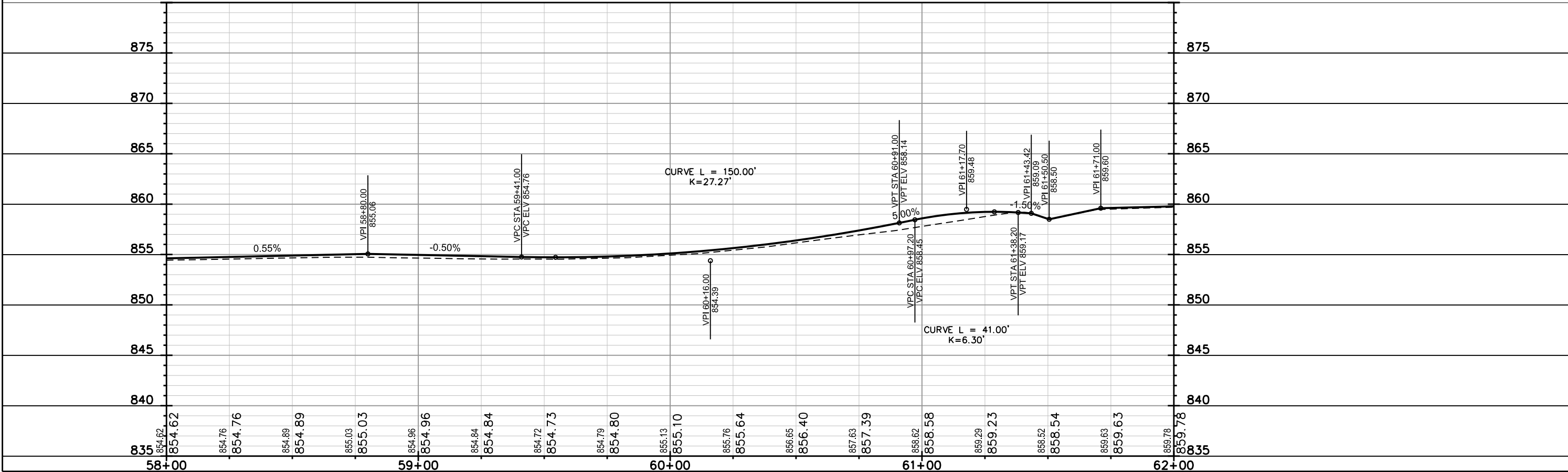
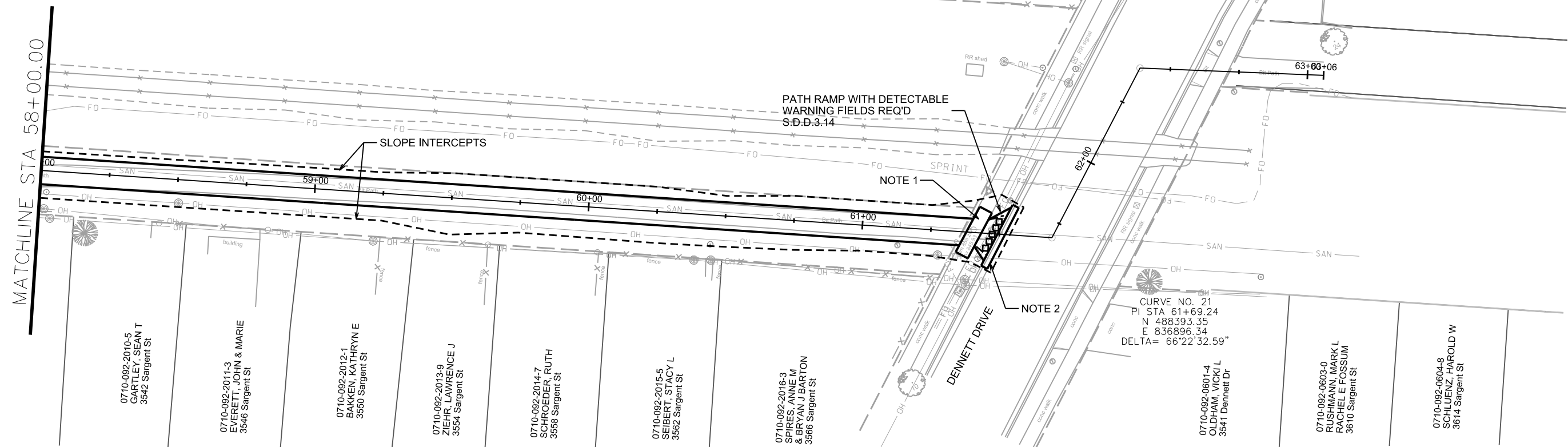
- NOTES
1. REMOVE CONC. WALK AND REPLACE WITH CONC. SIDEWALK 7-INCH. EXACT LIMITS TO BE DETERMINED BY ENGINEER
 2. REMOVE CONC. CURB & GUTTER AND REPLACE WITH CONC. CURB & GUTER TYPE A EXACT LIMITS TO BE DETERMINED BY ENGINEER

0710-092-2018-9
CITY OF MADISON ENGINEER
STORMWATER UTILITY 533
3537 Hargrove St

0710-092-2017-1
GORMICAN, EDWARD
3550 Dennett Dr

CURVE NO. 22
PI STA 62+38.91
N 488433.88
E 836953.02
DELTA= 64°50'55.41"

CURVE NO. 21
PI STA 61+69.24
N 488393.35
E 836896.34
DELTA= 66°22'32.59"

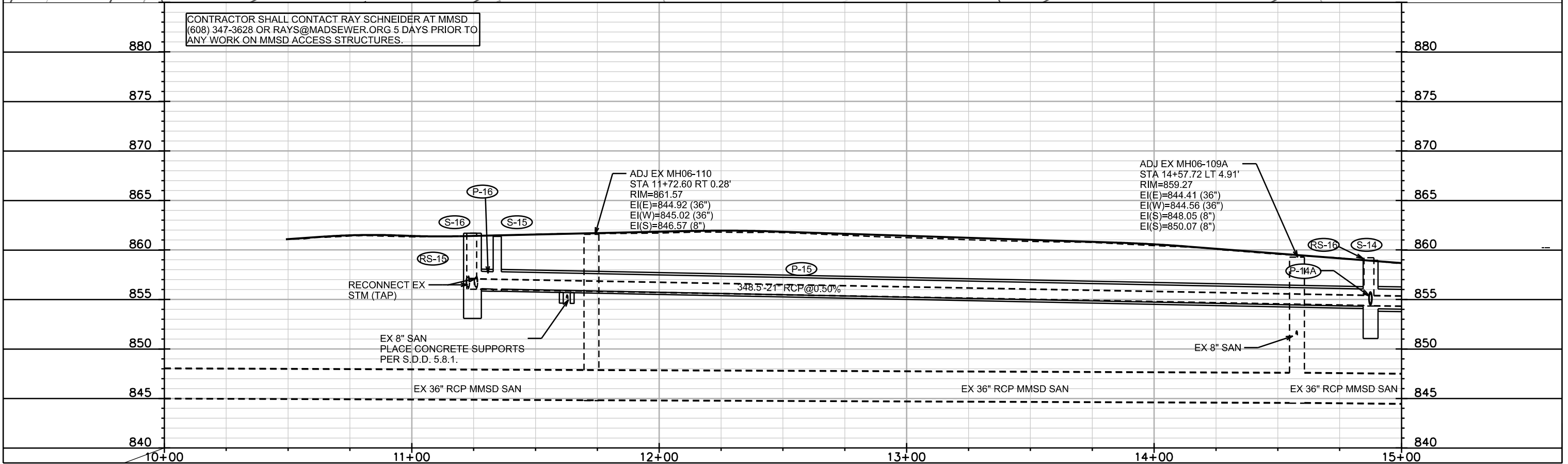
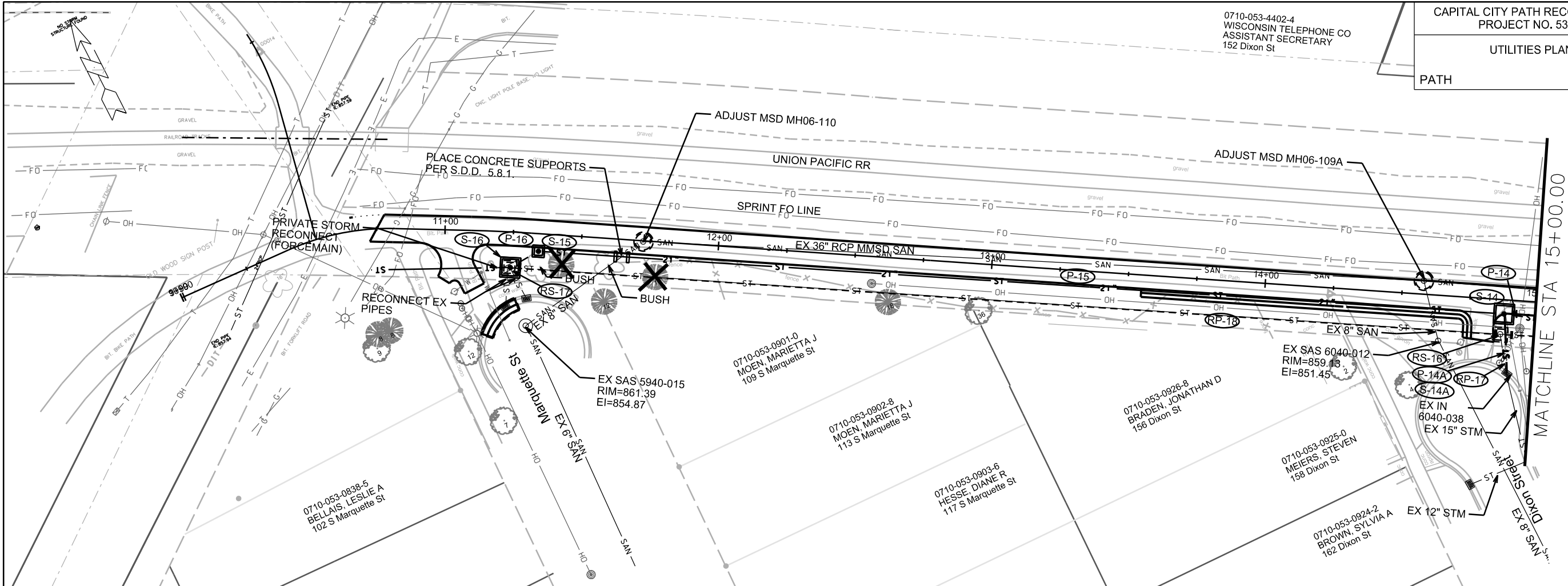


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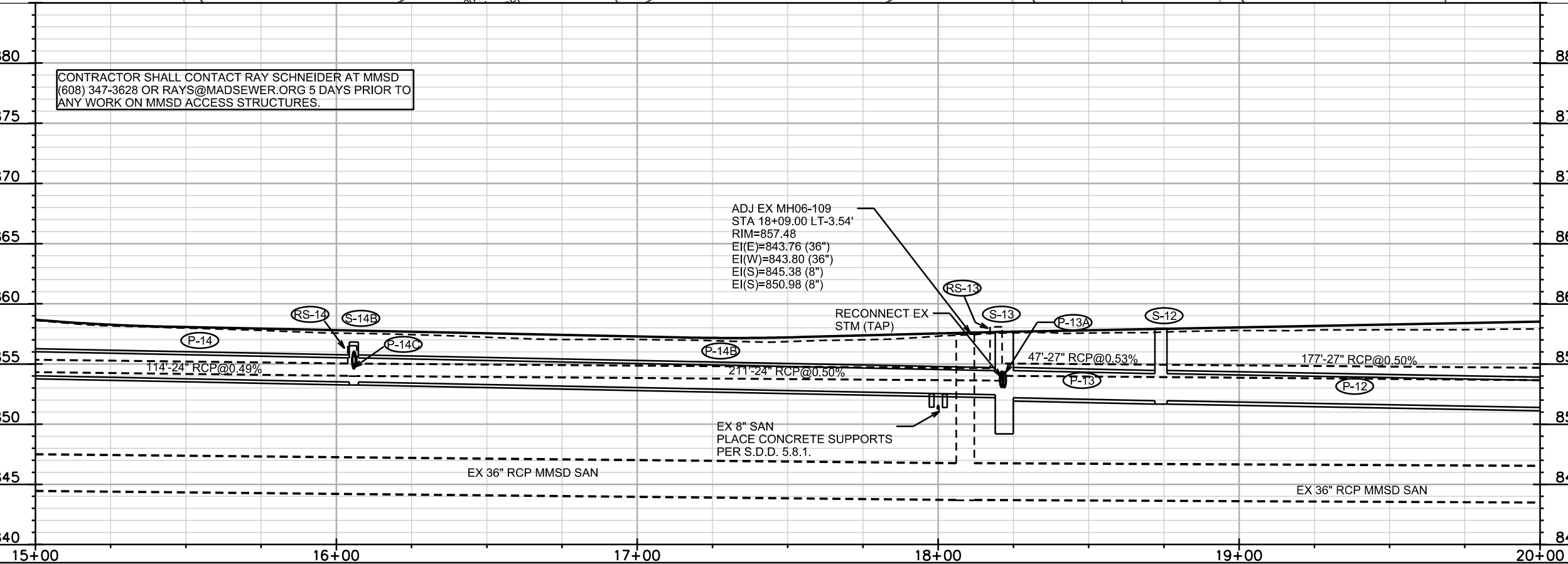
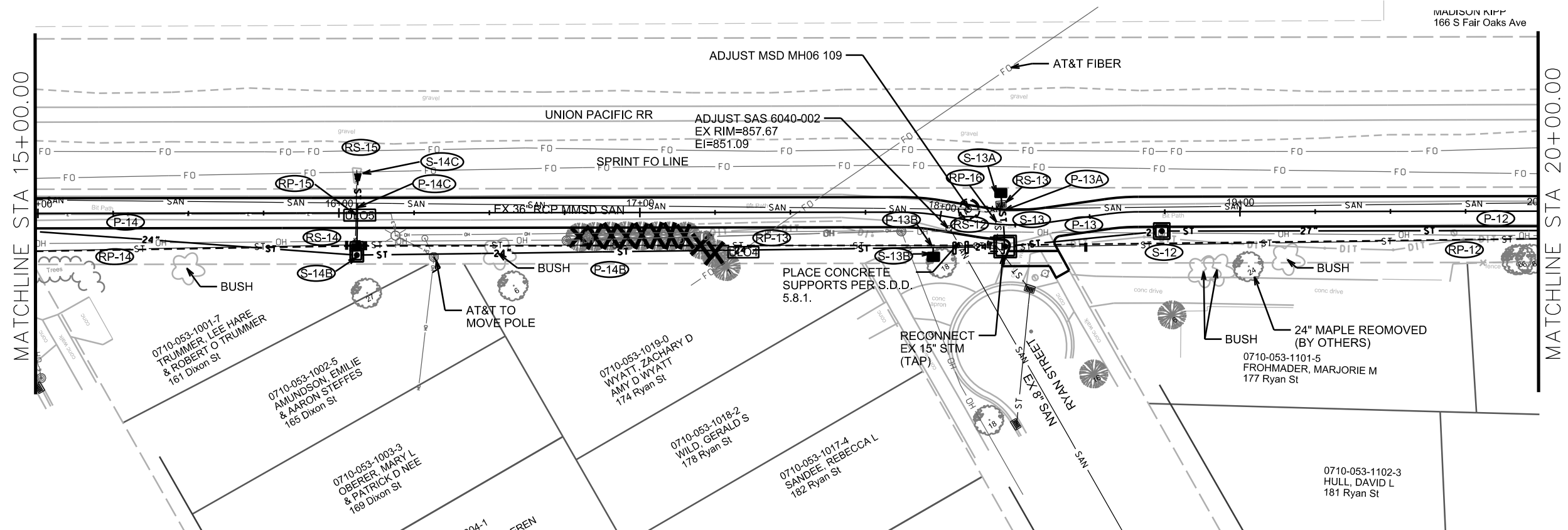
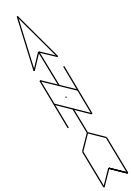
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

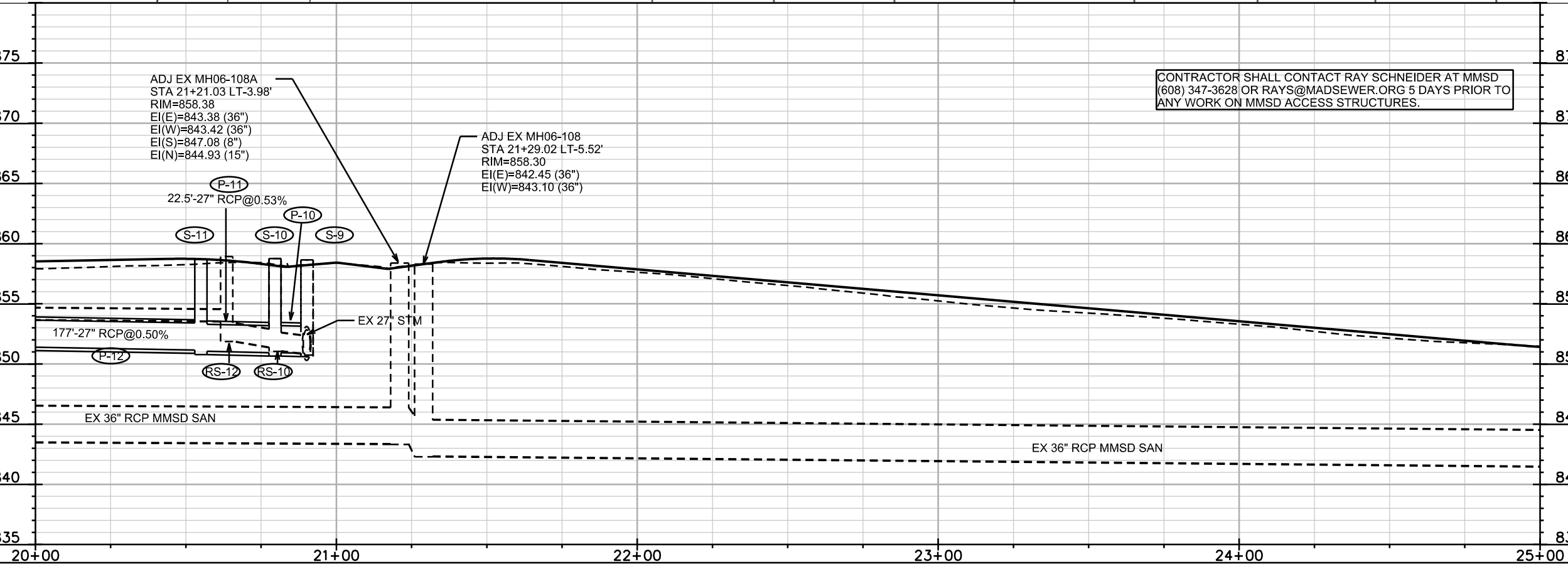
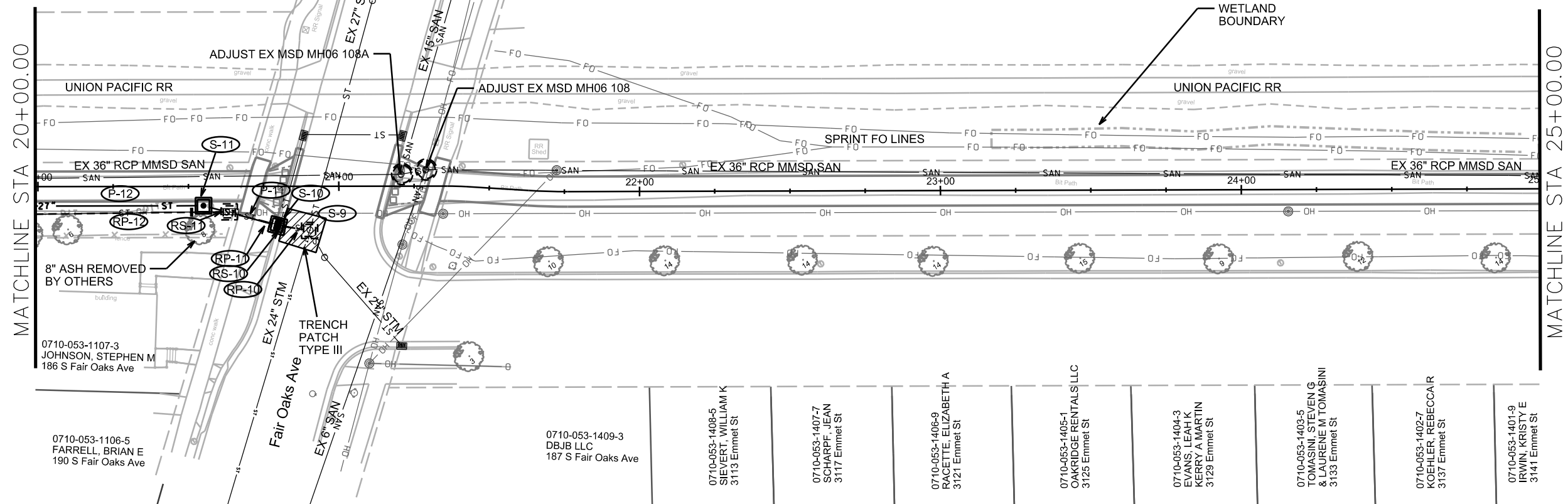
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PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-054-0097-5
OAK PARK PROPERTIES LLC
131 S Fair Oaks Ave

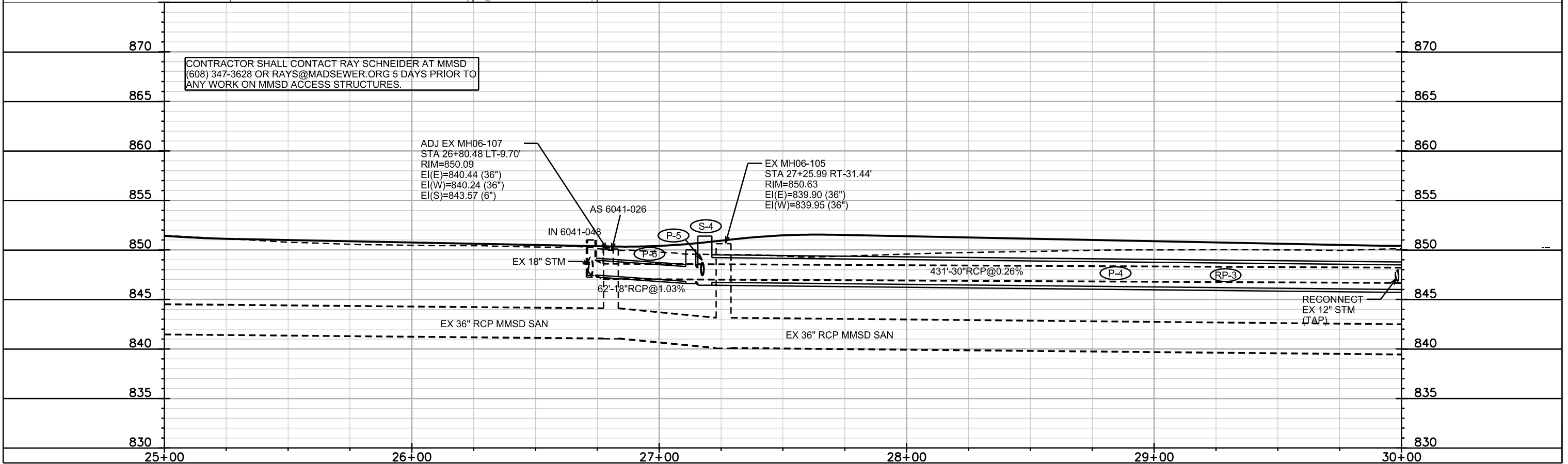
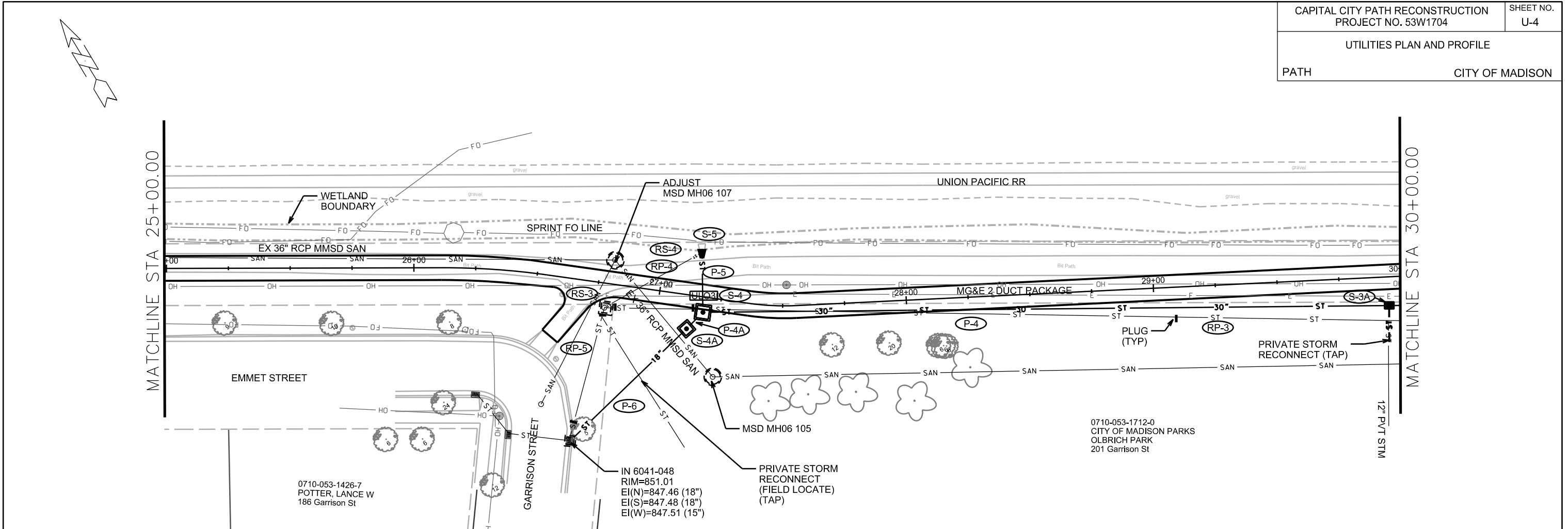


CONTRACTOR SHALL CONTACT RAY SCHNEIDER AT MMSD
(608) 347-3628 OR RAYS@MADSEWER.ORG 5 DAYS PRIOR TO
ANY WORK ON MMSD ACCESS STRUCTURES.

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

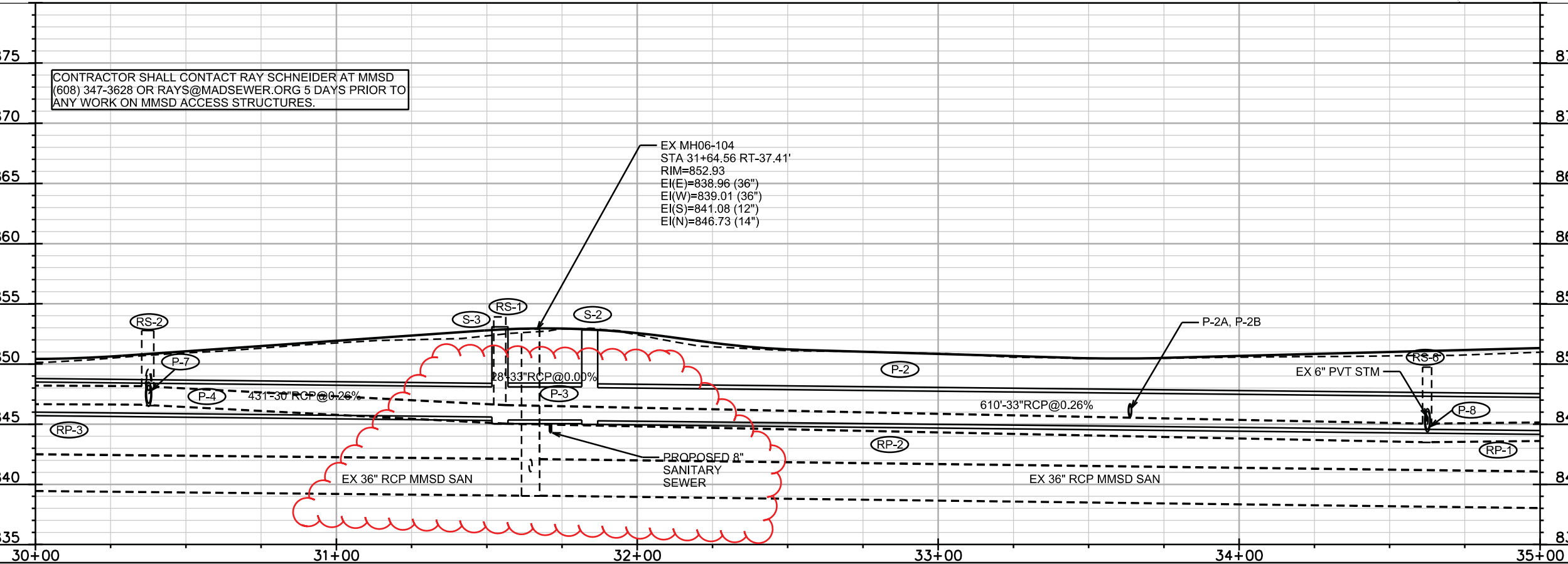
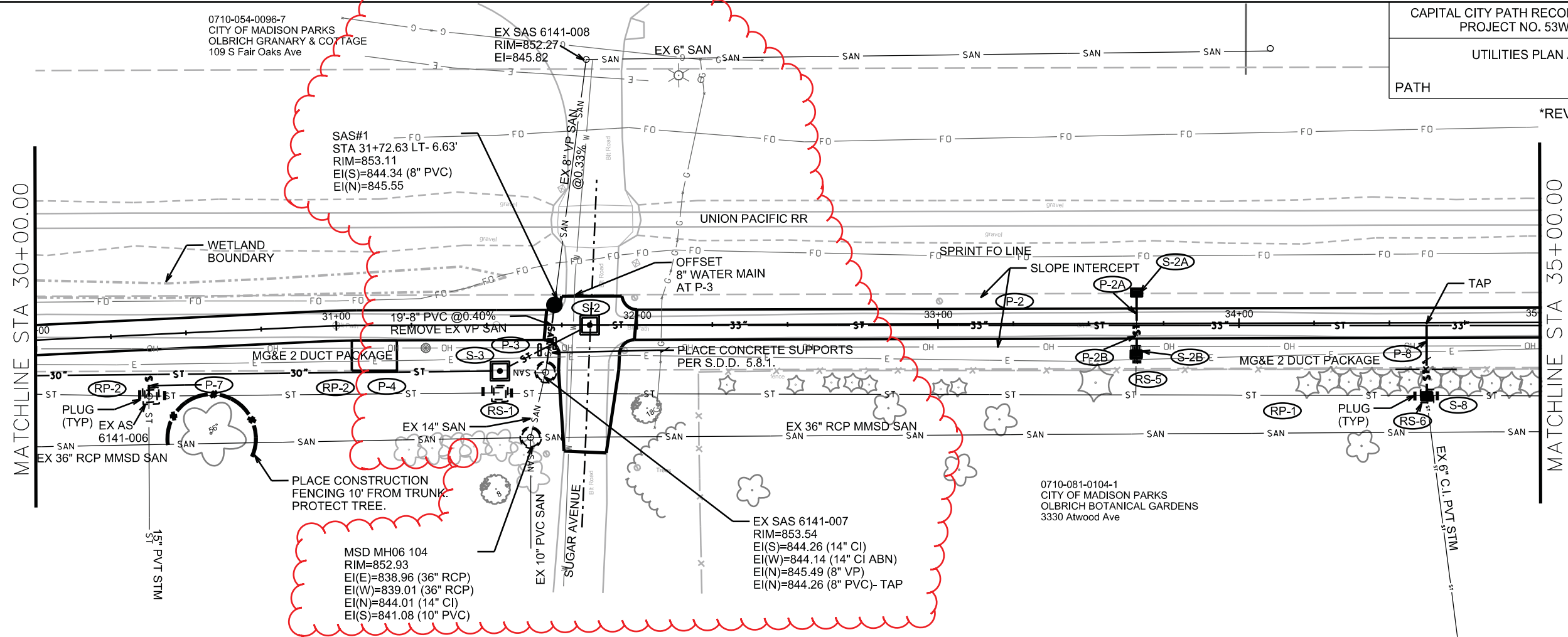
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

*REVISED 8-7-15 CCS

MATCHLINE STA 30+00.00

MATCHLINE STA 35+00.00



CONTRACTOR SHALL CONTACT RAY SCHNEIDER AT MMSD
(608) 347-3628 OR RAYS@MADSEWER.ORG 5 DAYS PRIOR TO
ANY WORK ON MMSD ACCESS STRUCTURES.

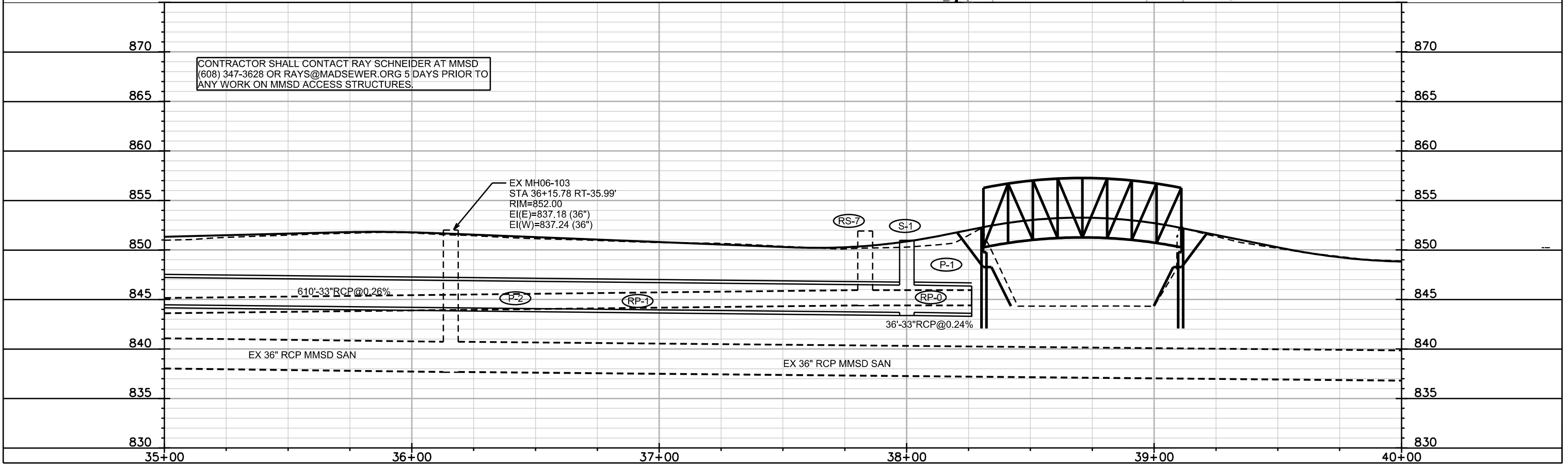
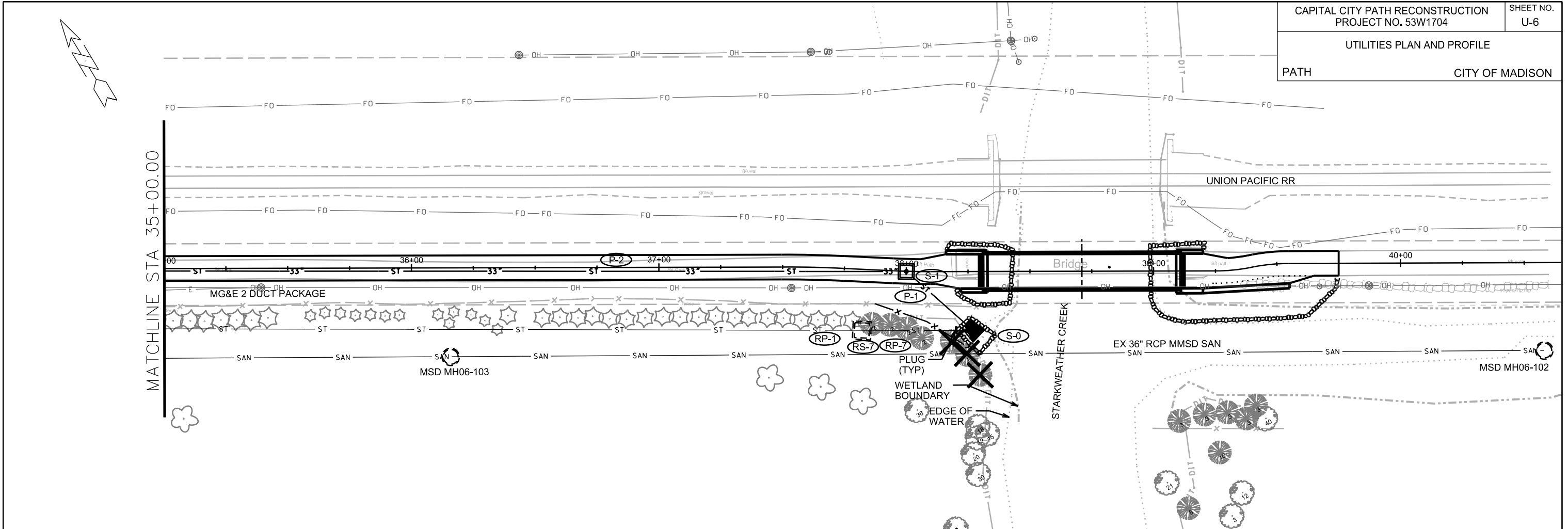
EX MH06-104
STA 31+64.56 RT-37.41'
RIM=852.93
EI(E)=838.96 (36")
EI(W)=839.01 (36")
EI(S)=841.08 (12")
EI(N)=846.73 (14")

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

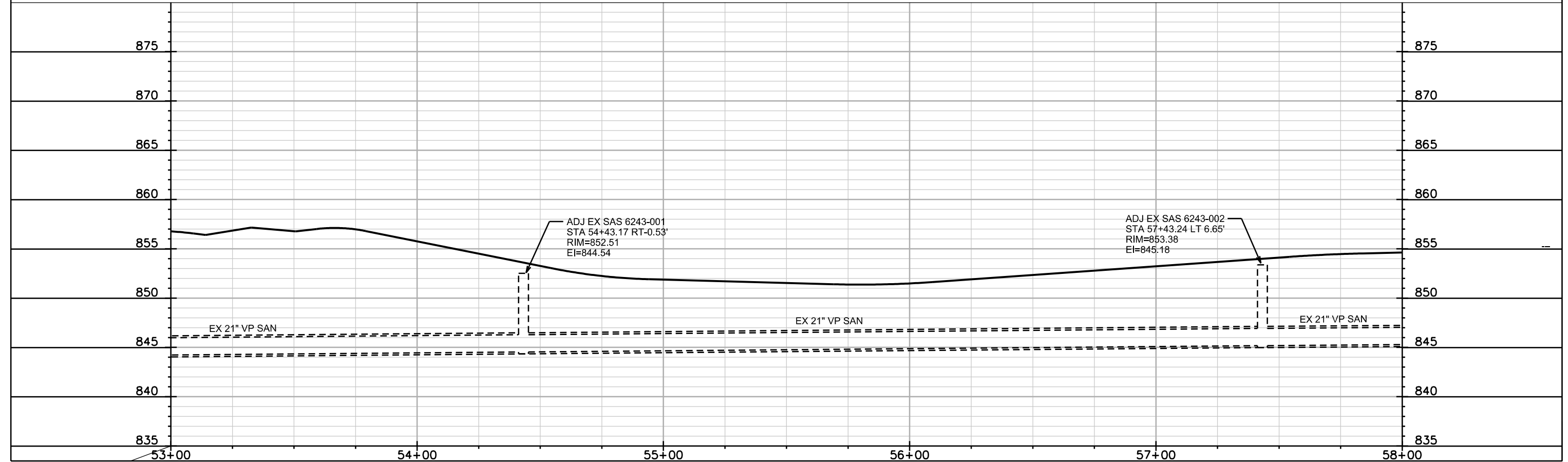
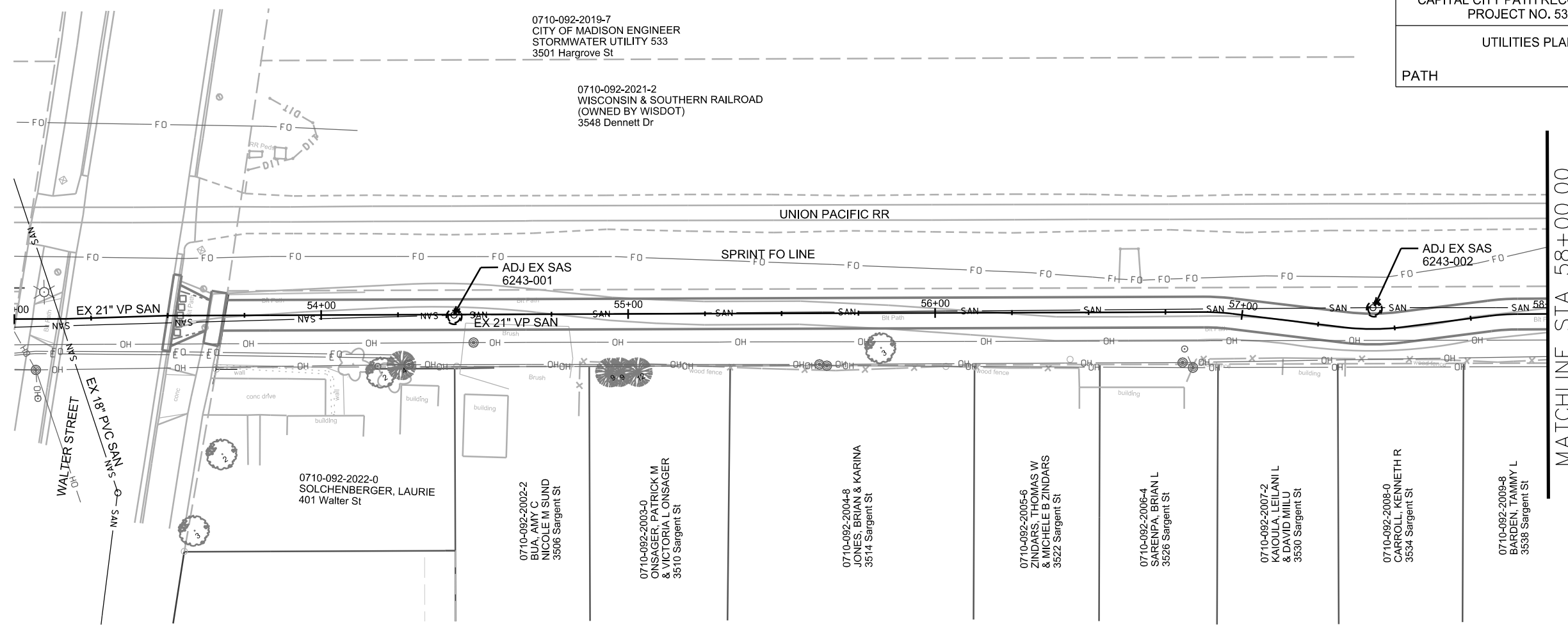
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-092-2019-7
CITY OF MADISON ENGINEER
STORMWATER UTILITY 533
3501 Hargrove St

0710-092-2021-2
WISCONSIN & SOUTHERN RAILROAD
(OWNED BY WISDOT)
3548 Dennett Dr



PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

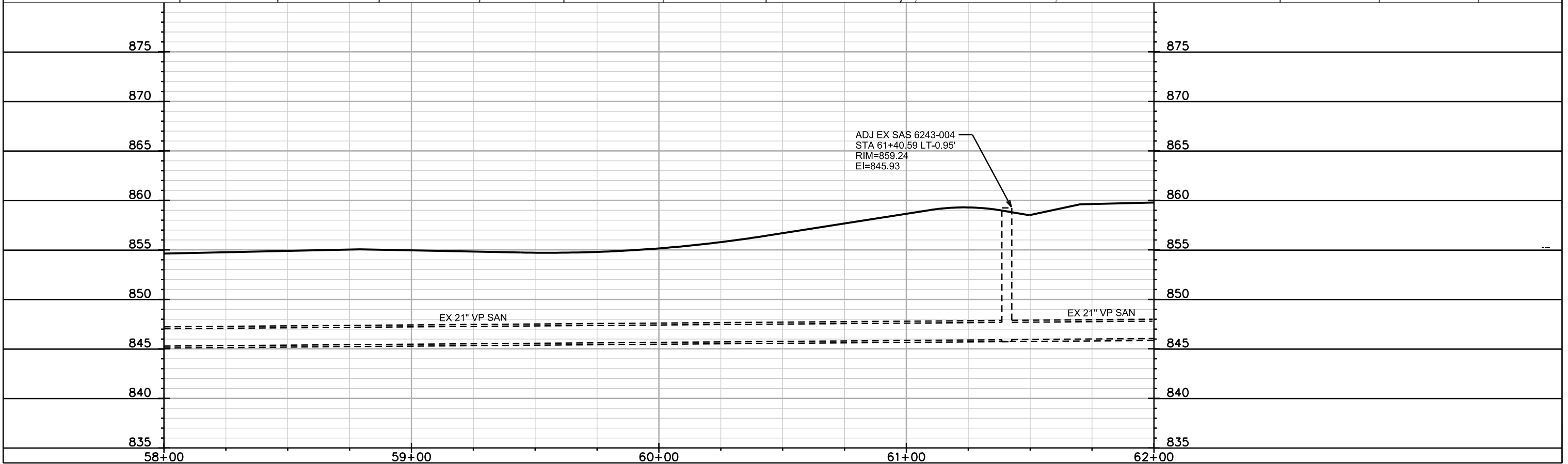
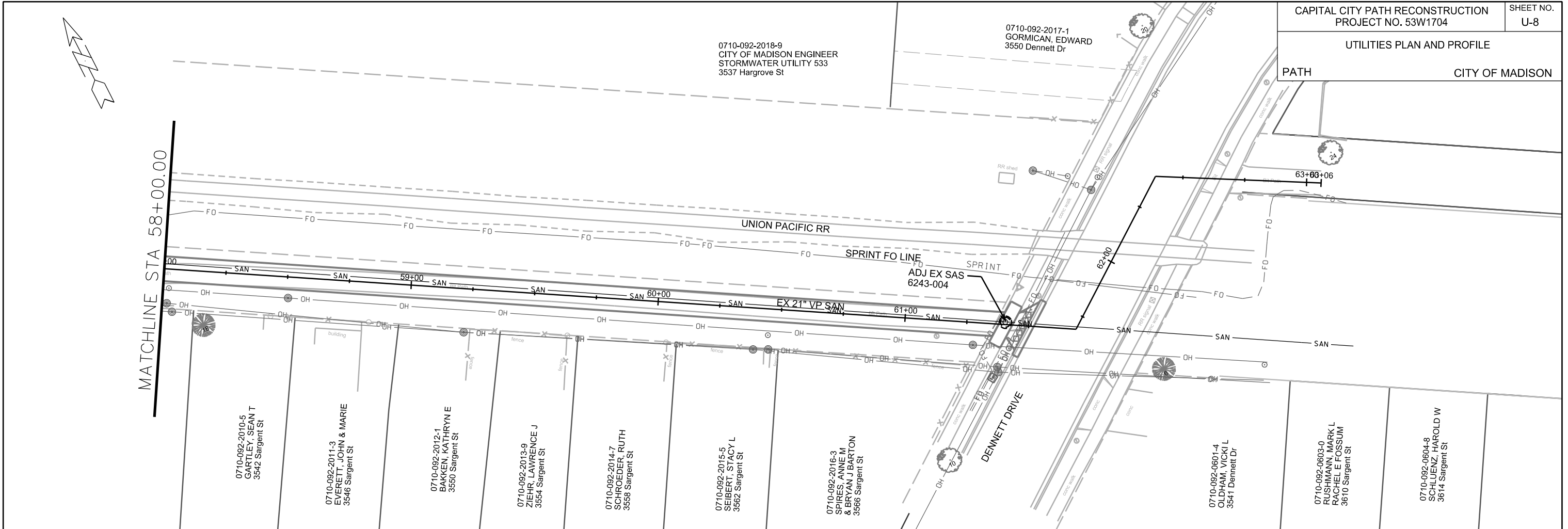
UTILITIES PLAN AND PROFILE

PATH CITY OF MADISON

0710-092-2018-9
CITY OF MADISON ENGINEER
STORMWATER UTILITY 533
3537 Hargrove St

0710-092-2017-1
GORMICAN, EDWARD
3550 Dennett Dr

MATCHLINE STA 58+00.00



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

SANITARY STRUCTURE ADJUSTMENTS

SAS NO.	STATION	LOCATION (OFFSET)	EX TOP CASTING	PROP TOC	ADJUST AMOUNT (IN)	AVAILABLE ADJUSTMENT (IN)	STRUCTURE TYPE	NOTES
MH06-110	11+73.00	RT-1.00	861.57	861.71	1.68	87 BRICK	PIP 4X4 FLAT TOP	ADJUST;NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH06-109A	11+57.00	LT-4.80	859.27	859.41	1.68	4	5' PRECAST; OFFSET CONE	ADJUST; REPLACE EX RINGS; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
6040-012	14+64.00	RT-14.00	859.13	859.13	0.00	4	4' PRECAST	
MH06-109	18+08.80	LT-3.70	857.48	857.51	0.36	45 BRICK	PIP 6' FLAT TOP	ADJUST;NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
6040-002	18+03.30	RT-3.80	857.67	857.63	0.48	6	4' PRECAST OFFSET CONE	ADJUST
MH06-108A	21+20.50	LT-4.00	858.38	858.10	3.36	12	PIP 6' FLAT TOP	ADJUST; REPLACE EX RINGS; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH06-108	21+28.80	LT-5.30	858.30	858.39	1.08	63 BRICK	PIP 6X6	ADJUST;NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH06-107	26+80.10	LT-10.00	850.09	850.40	3.72	4	PIP 5X5 FLAT TOP	ADJUST;NEW CASTING PROVIDED BY MMSD; CONTACT RAY SCHNEIDER (608) 347-3628 5 DAYS PRIOR TO ANY WORK ON STRUCTURE
MH06-104	31+64.60	RT-37.40	852.93	852.93	0.00	7	PIP 5X5 FLAT TOP	
6243-001	54+43.00	RT-0	852.51	853.65	13.68	1	4' PRECAST	SWAP BARREL SECTION (ADJ SAS SPECIAL)
6243-002	57+43.00	LT-5.00	853.38	854.00	7.44	3	4' PRECAST	ADJUST
6243-004	61+40.50	LT-1.00	859.24	859.15	1.08	8	PIP 4X4 FLAT TOP	ADJUST

PLOT SCALE: ---

PLOT NAME: ---

REV. DATE: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION

STORM SEWER SCHEDULE

STORM SEWER SCHEDULE

CITY OF MADISON

PROPOSED STORM STRUCTURES

PROPOSED STORM PIPES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES	PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES	
CAPITOL CITY PATH																			
S-0	38+29.43	RT-26.00	33" RCP AE	---	843.60	---	W/GATE	P-1	S-0	S-1	843.60	843.69	39.0	36.0	0.24%	33"	RCP		
* S-1	38+00.00	RT-0	5X5 SAS	850.87	843.69	7.18	W/R-1550-0054	P-2	S-1	S-2	843.69	845.28	615.0	610.0	0.26%	33"	RCP		
S-2	31+84.21	RT-0	5X5 SAS	852.87	845.28	7.59	W/R-1550-0054	P-2A	P-2	S-2A	845.55	846.25	11	8	8.75%	12"	RCP	TAP	
S-2A	33+66.00	LT-10.30	H INLET	849.45	846.25	3.20	W/1878-B7L	* P-3	S-2	S-3	845.43	845.43	33.5	28.0	0.00%	33"	RCP	TAP	
S-2B	33+65.83	RT-10.28	H INLET	849.77	846.57	3.20	W/1878-B7L	P-4	S-3	S-4	845.60	846.72	436.0	431.0	0.26%	30"	RCP		
S-3	31+54.36	RT-15.26	5X5 SAS	852.76	845.35	7.41	W/R-1550-0054	* P-5	S-4	S-5	847.95	848.07	25.5	23.5	0.51%	12"	RCP		
S-3A	29+94.83	RT-11.55	SADDLED H INLET	849.90	845.76	4.14	FP; W/1878-B7G	P-6	S-4A	6041-048	846.82	847.46	65.0	62.0	1.03%	18"	RCP	TAP	
* S-4	27+18.43	RT-6.17	5X5 SAS	851.69	846.72	4.97	FP; W/1550-0054	P-7	P-4	6141-006	846.53	846.63	7.5	2.0	5.00%	15"	RCP	TAP	
S-5	27+14.44	LT-19.16	12" RCP AE	---	848.07	---	W/GATE; (6)	P-8	P-2	S-8	844.56	844.66	23.5	19.5	0.51%	12"	RCP	TAP	
S-7	30+37.00	RT-20.38	EX SAS	852.78	846.63	6.15	TAP	P-4A	S-4	S-4A	846.80	846.82	9.5	4.5	0.50%	18"	RCP		
S-8	34+62.32	RT-24.40	H INLET	849.74	844.66	5.08	(1); W/R-1878-B7L												
S-4A	27+12.78	RT-13.68	4X4 SAS	850.00	846.82	3.18	FP; (5);W/R-4349-D												
								P-10	S-9	S-10	850.89	850.93	11.0	7.0	0.57%	27"	RCP	NCM; TAP	
								P-11	S-10	S-11	850.93	851.05	25.5	21.5	0.56%	27"	RCP		
S-9	20+90.27	RT-14.71	EX 6X6 SAS	858.64	850.64	8.00	TAP	P-12	S-11	S-12	851.05	851.94	181.0	177.0	0.50%	27"	RCP		
S-10	20+79.63	RT-13.03	4X4 SAS	858.76	850.93	7.83	W/3067-7004-V	P-13	S-12	S-13	851.94	852.19	52.0	47.0	0.53%	27"	RCP		
S-11	20+55.00	RT-6.43	4X4 SAS	858.61	851.05	7.56	W/1550-0054	P-13A	S-13	S-13A	852.94	853.30	18.0	14.0	2.57%	12"	RCP	NCM	
S-12	18+74.00	RT-6.44	4X4 SAS	857.82	851.94	5.88	W/1550-0054	P-13B	TAP	S-13B	853.05	853.07	3.0	0.5	4.00%	12"	RCP		
S-13	18+22.02	RT-7.27	6X6 CB	858.08	852.19	5.89	FP; W/1550-0054; (3); (2); (7)	P-14	S-14B	S-14	853.50	854.06	118.0	114.0	0.49%	24"	RCP		
S-13A	18+19.50	LT-10.10	H INLET	856.50	853.30	3.20	W/1878-B7G	P-14A	S-14	S-14A	854.86	855.29	20.0	16.5	2.61%	15"	RCP	NCM; TAP	
S-13B	17+99.90	RT-13.90	H INLET	856.55	853.07	3.48	W/1878-B7G	P-14B	S-13	S-14B	852.44	853.50	215.0	211.0	0.50%	24"	RCP		
S-14	14+87.70	RT-5.16	6X6 CB	858.94	854.06	4.88	W/1550-0054; (9); (2)	* P-14C	S-14B	S-14C	854.81	855.19	27.0	25.0	1.52%	12"	RCP		
S-14A	14+90.31	RT-26.57	EX H INLET	858.81	855.29	3.52	STM TAP	P-15	S-14	S-15	854.31	856.05	353.0	348.5	0.50%	21"	RCP		
S-14B	16+05.93	RT-12.50	3X6 SAS	856.82	853.50	3.32	FP; (5);(8)W/ 4" 1550-OPEN	P-16	S-15	S-16	856.05	856.08	12.0	6.0	0.50%	21"	RCP		
S-14C	16+06.32	LT-13.18	12" RCP AE	---	855.19	---	W/GATE;(6)												
S-15	11+34.55	RT-6.42	4X4 SAS	861.37	856.05	5.32	W/1550-0054												
S-16	11+24.51	RT-13.00	6X6 CB	860.70	856.08	4.62	FP; W/1550-0054-OPEN; (4); (2);(3)												

NOTE: PLAN 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.

SPECIFIC NOTES

- RECONNECT EX 6" MAIN AT EI(S)=845.12
- WITH 3' SUMP BELOW LISTED INVERT
- STRUCTURE SHALL HAVE TWO CASTINGS PER S.D.D. 5.7.4.
- RECONNECT EX STORM FORCEMAIN
- STRUCTURE DEPTH MAY REQUIRE PIPE WALLS BE POURED INTEGRAL TO ROOF
- END OF APRON STATIONED
- CENTER OF STRUCTURE STATIONED. CENTER OF P-14B SHALL BE OFFSET 12" LEFT, P-13B OFFSET RT
- STRUCTURE CENTER STATIONED. ONE 1878-B7G CASTING AT 11.0'RT. TOC IS 1878-B7G. CENTER OF PIPE 14' RT
- STRUCTURE SHALL HAVE ONE CASTING OFFSET, 7.0' RT

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 COREY STELLJES OF CITY ENGINEERING AT (608) 266-9721 FOR PRECAST APPROVALS, EMAIL SHOP DRAWINGS TO CSTELLJES@CITYOFMADISON.COM.

STORM REMOVAL SCHEDULE

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RS-1	6141-007	31+54.00	RT-22.50	EX 5X7 SAS	ABANDON
RS-3	6041-049	26+79.20	RT-10.80	EX 3X3 SAS	ABANDON
RS-4	6041-026	27+14.30	LT-21.00	EX 18" AE	REMOVE
RS-6	6141-018	34+62.32	RT-24.40	EX INLET	REMOVE
RS-7	6142-002	37+83.00	RT-25.00	EX 5X7 SAS	ABANDON
RS-10	6041-022	20+79.50	RT-13.00	EX INLET	REMOVE
RS-11	6041-021	20+63.90	RT-8.50	EX 5X7 SAS	REMOVE
RS-12	6040-019	18+18.50	RT-7.50	EX 5X7 SAS	REMOVE
RS-13	N/A	18+20.10	LT-6.40	EX INLET	REMOVE
RS-14	6040-014	16+06.00	RT-11.00	EX INLET	REMOVE
RS-15	N/A	16+06.00	LT-15.00	EX 12" AE	REMOVE
RS-16	6040-036	14+87.00	RT-12.50	EX 5X7 SAS	REMOVE
RS-17	5940-049	11+24.00	RT-13.00	EX 5X7 SAS	REMOVE

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	RS-7	RS-1	620	18	VCP	N	ABANDON WITH PLUGS
RP-2	RS-1	6141-006	110	18"	VCP	N	ABANDON WITH PLUGS
RP-3	6141-006	S-4	316	18"	VCP	N	ABN; REMOVE 193' IN TRENCH W/P-4
RP-4	RS-4	RS-3	44	12"	VCP	Y	REMOVE
RP-5	RS-3	6041-048	50	18"	RCP	N	ABANDON WITH PLUGS
RP-7	S-0	RS-7	41	18	VCP	N	ABANDON WITH PLUGS
RP-10	S-9	RS-10	7	12"	VCP	N	REMOVE
RP-11	RS-10	RS-11	20	12"	VCP	N	REMOVE
RP-12	RS-11	RS-12	239	12"	VCP	N	ABANDON WITH PLUGS
RP-13	RS-12	RS-14	207	12"	VCP	N	REMOVE
RP-14	RS-14	RS-16	113	12"	VCP	N	ABANDON WITH PLUGS
RP-15	RS-14	RS-15	20	12"	VCP	N	REMOVE
RP-16	RS-12	RS-13	10	12"	VCP	N	REMOVE
RP-17	RS-16	6040-038	10	12"	VCP	N	REMOVE
RP-18	RS-16	RS-17	356	12"	VCP	N	ABANDON WITH PLUGS

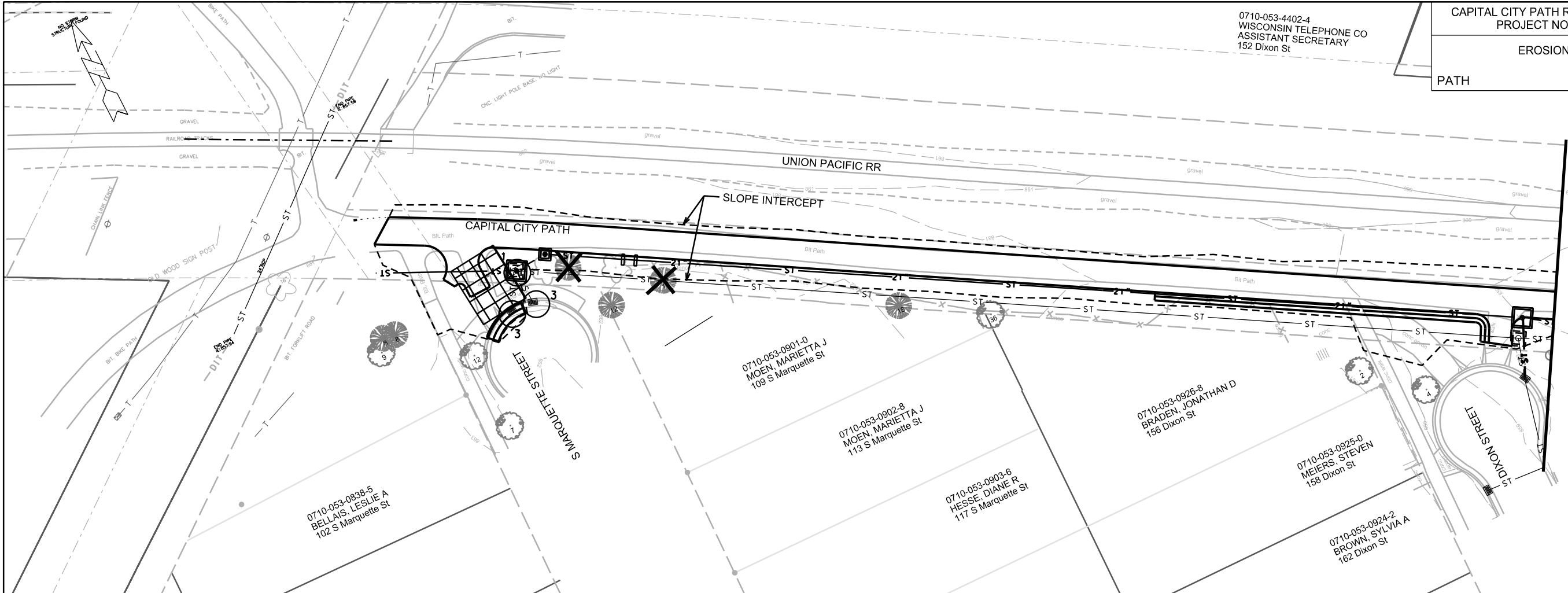
STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1	32+08.00	RT-0	GAS	
ULO-2	31+63.60	RT-11.00	ELEC	
ULO-3	27+17.30	RT-0	ELEC	
ULO-4	17+33.00	RT-12.00	FO	
ULO-5	16+06.00	RT-0	ELEC	

STANDARD NOTES:

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0710-053-4402-4
WISCONSIN TELEPHONE CO
ASSISTANT SECRETARY
152 Dixon St



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.

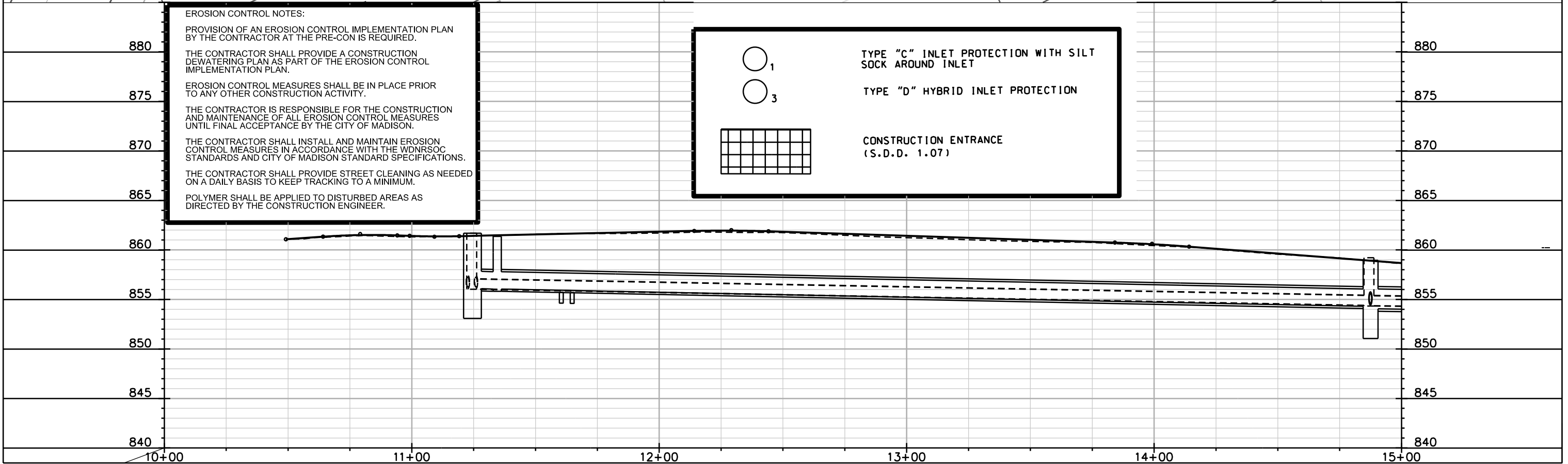
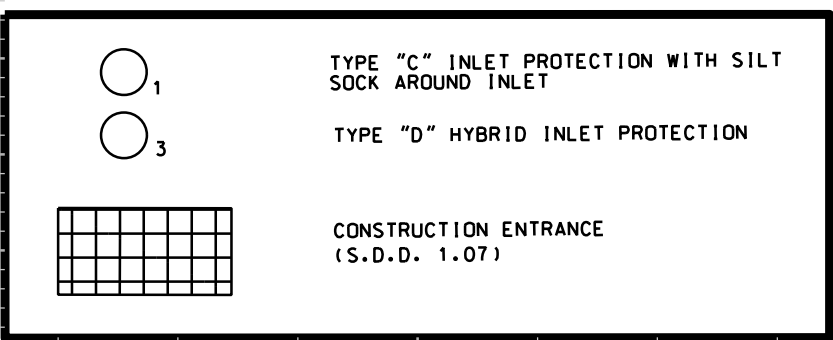
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

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 WDMRSOC 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.

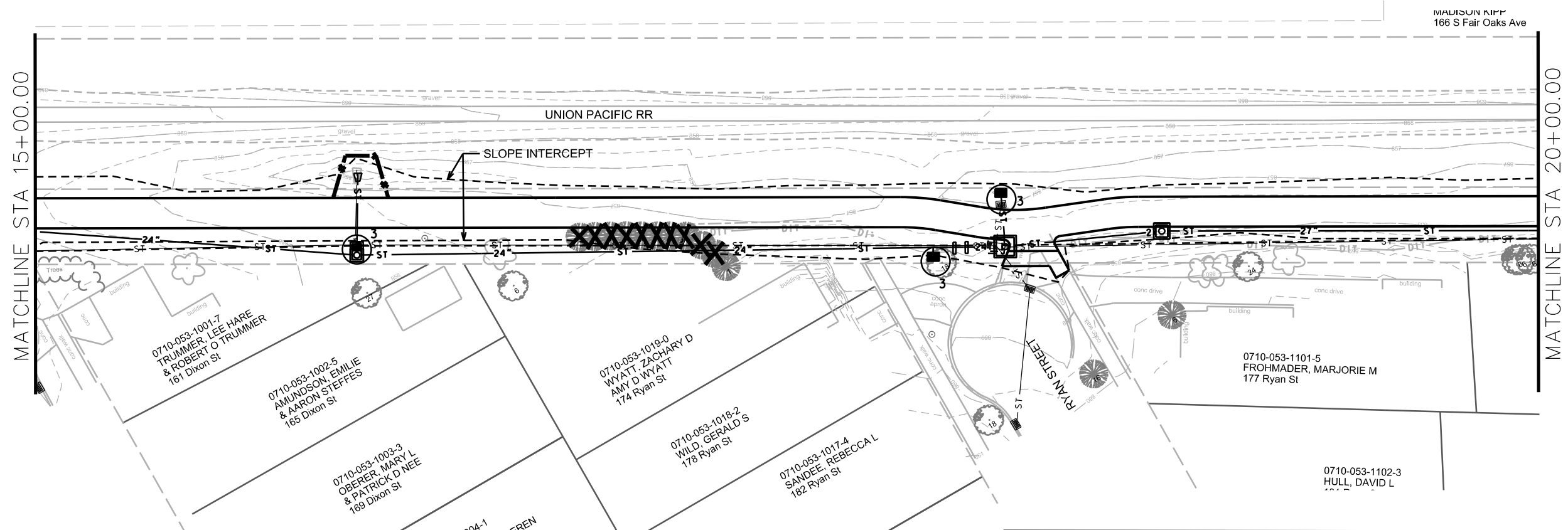
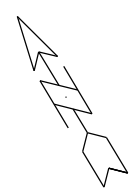


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL 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.

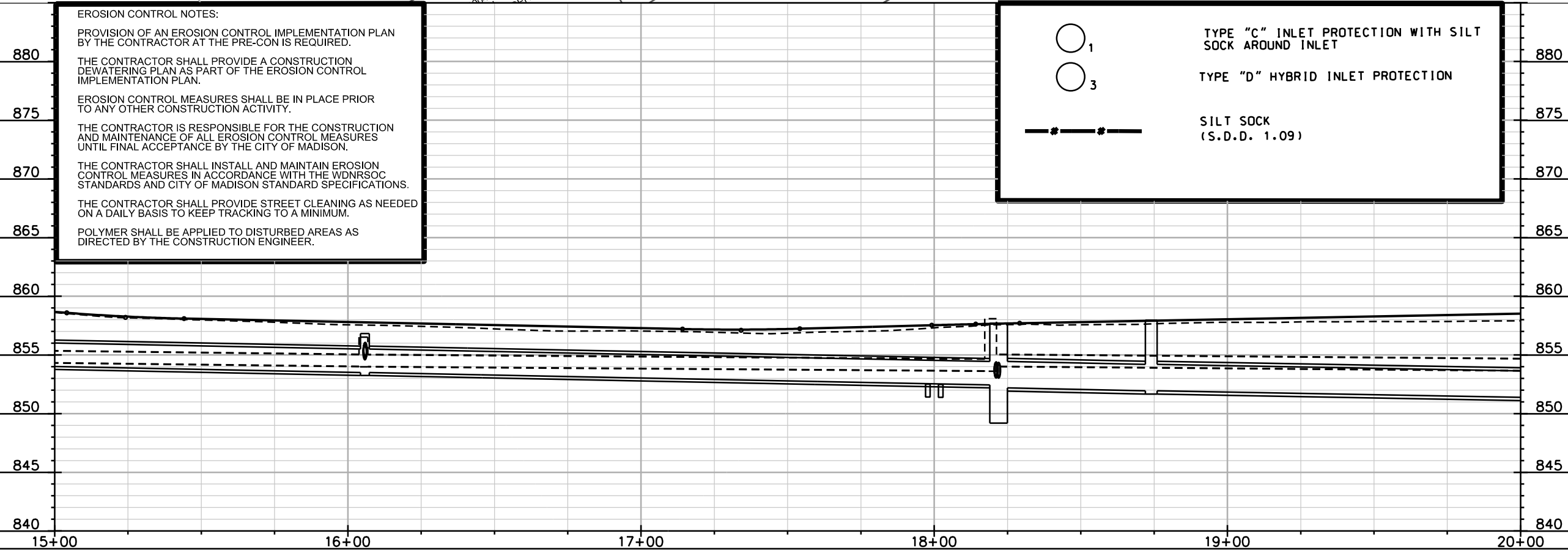
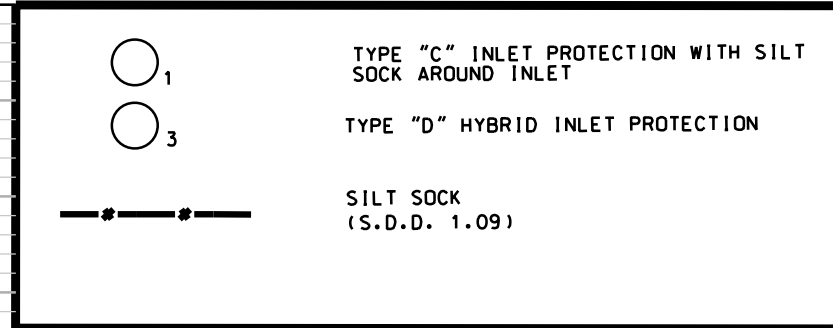
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

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.



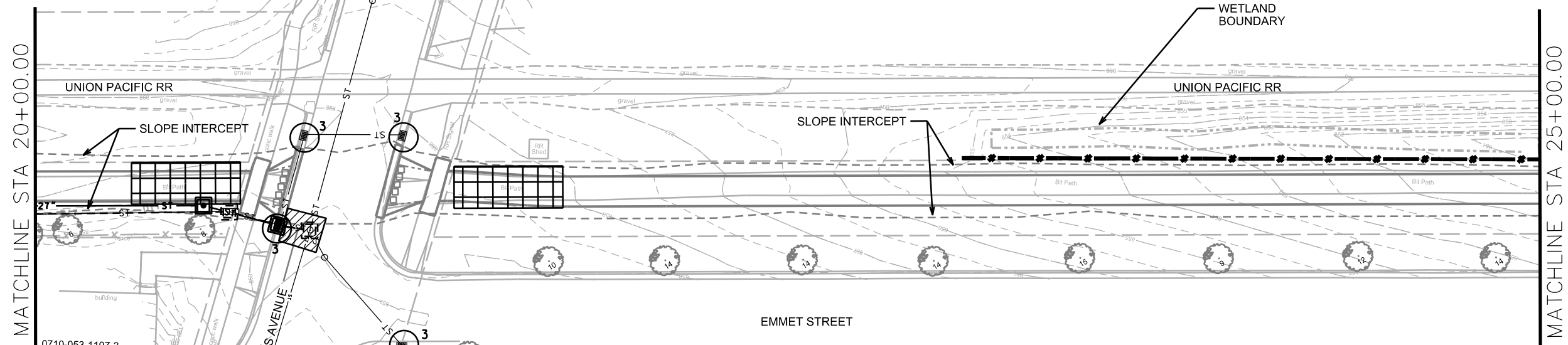
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0710-054-0097-5
OAK PARK PROPERTIES LLC
131 S Fair Oaks Ave



0710-053-1107-3
JOHNSON, STEPHEN M
186 S Fair Oaks Ave

0710-053-1106-5
FARRELL, BRIAN E
190 S Fair Oaks Ave

0710-053-1409-3
DBJB LLC
187 S Fair Oaks Ave

0710-053-1408-5
SIEVERT, WILLIAM K
3113 Emmet St

0710-053-1407-7
SCHARPF, JEAN
3117 Emmet St

0710-053-1406-9
RACETTE, ELIZABETH A
3121 Emmet St

0710-053-1405-1
OAKRIDGE RENTALS LLC
3125 Emmet St

0710-053-1404-3
EVANS, LEAH K
KERRY A MARTIN
3129 Emmet St

0710-053-1403-5
TOMASINI, STEVEN G
& LAURENE M TOMASINI
3133 Emmet St

0710-053-1402-7
KOEHLER, REBECCAR
3137 Emmet St

0710-053-1401-9
IRWIN, KRISTY E
3141 Emmet St

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.

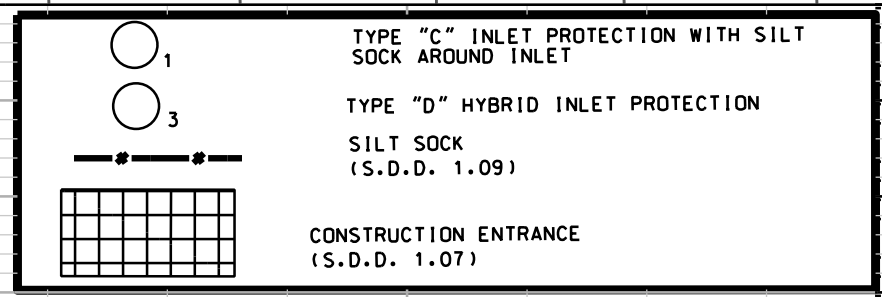
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

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 WDMRSOC 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.



875

870

865

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855

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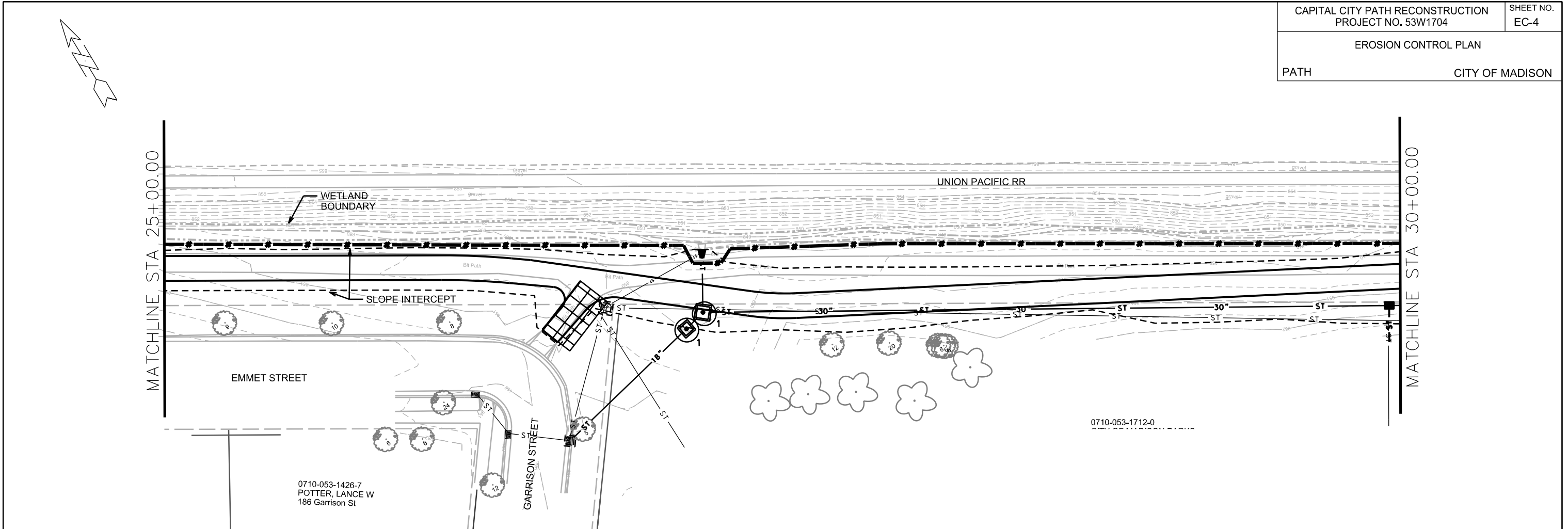
20+00 21+00 22+00 23+00 24+00 25+00

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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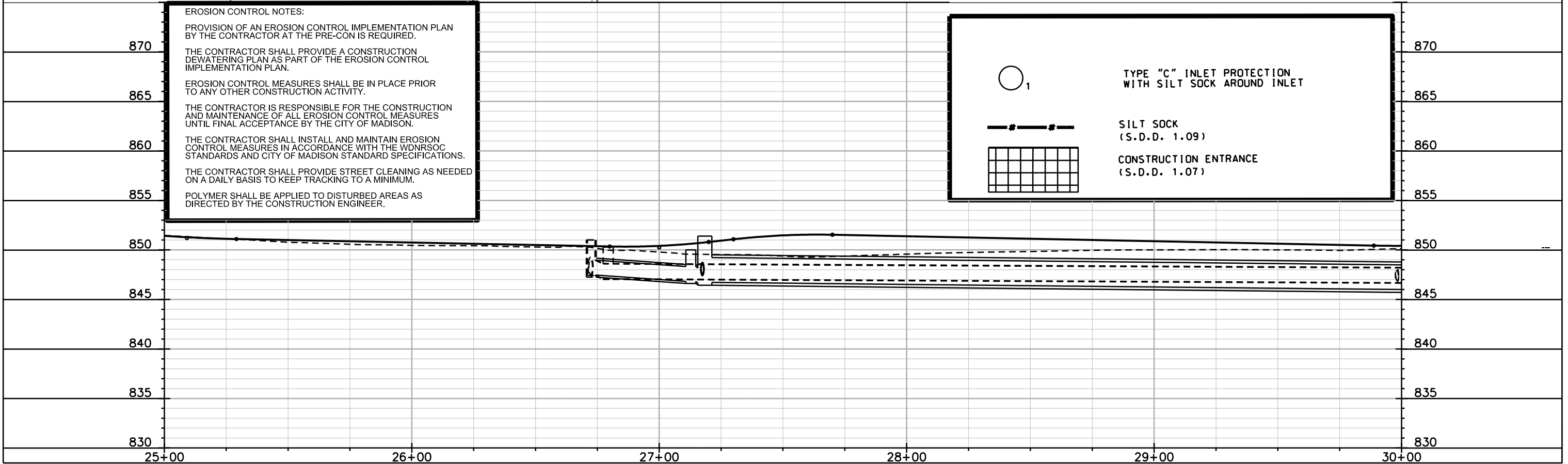
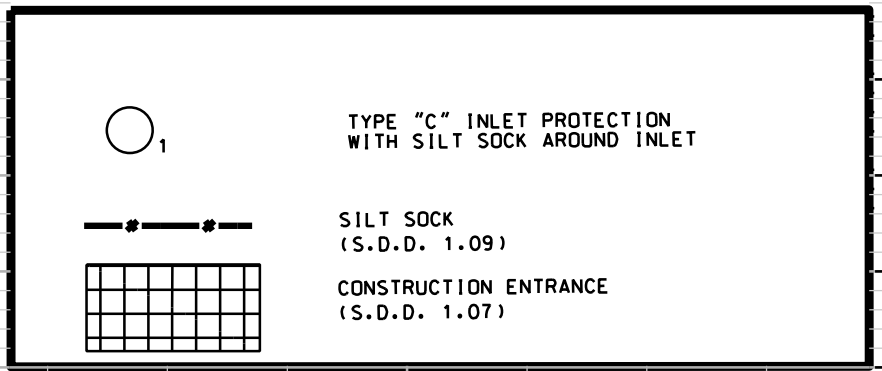
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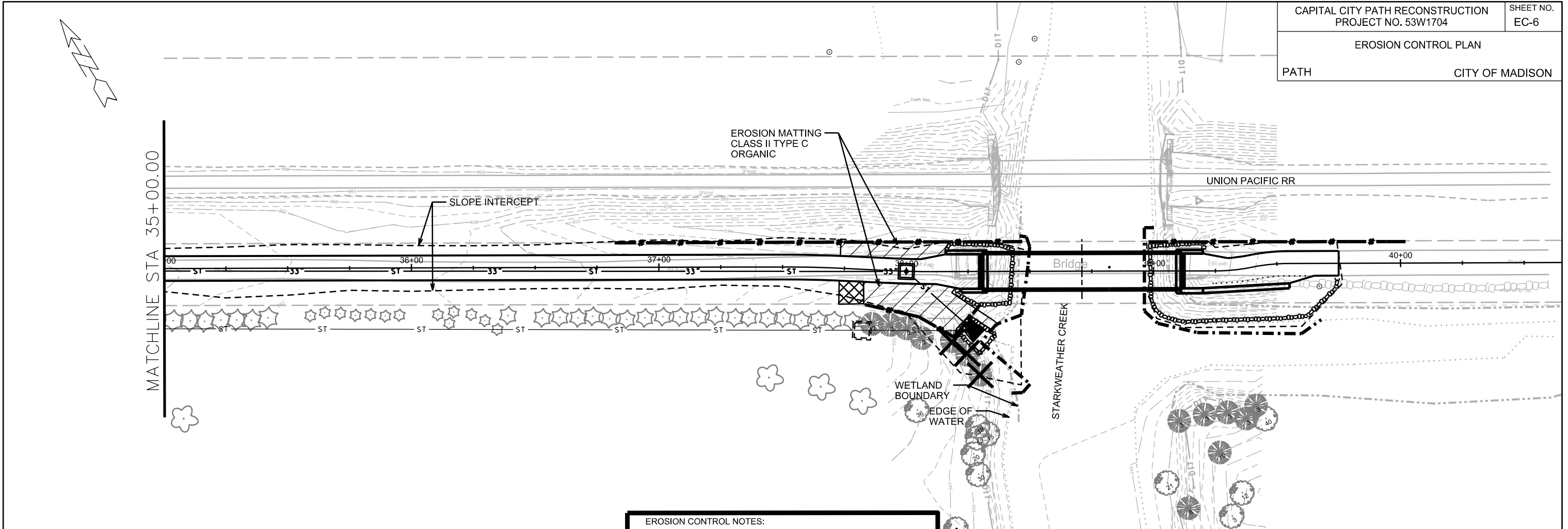


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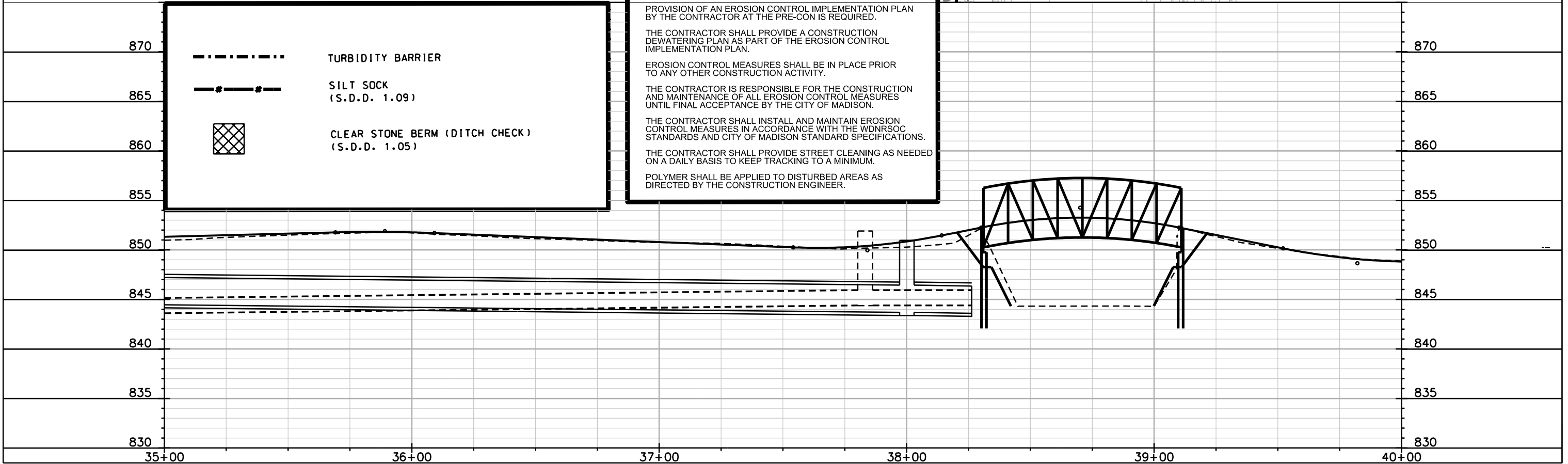
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870		TURBIDITY BARRIER	870
865		SILT SOCK (S.D.D. 1.09)	865
860		CLEAR STONE BERM (DITCH CHECK) (S.D.D. 1.05)	860
855			855

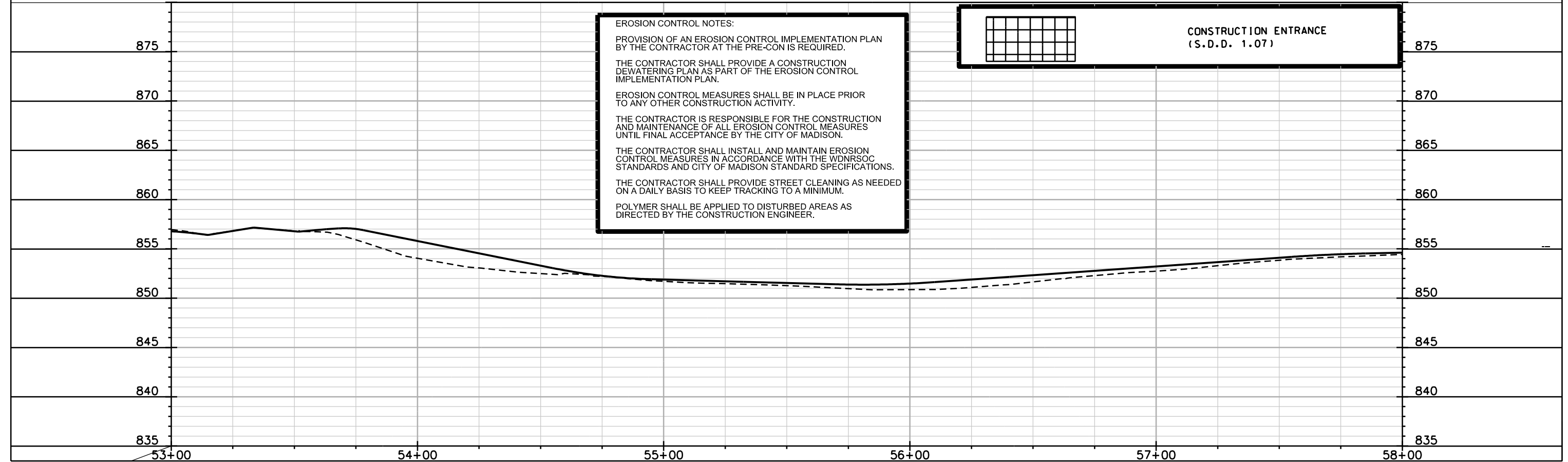
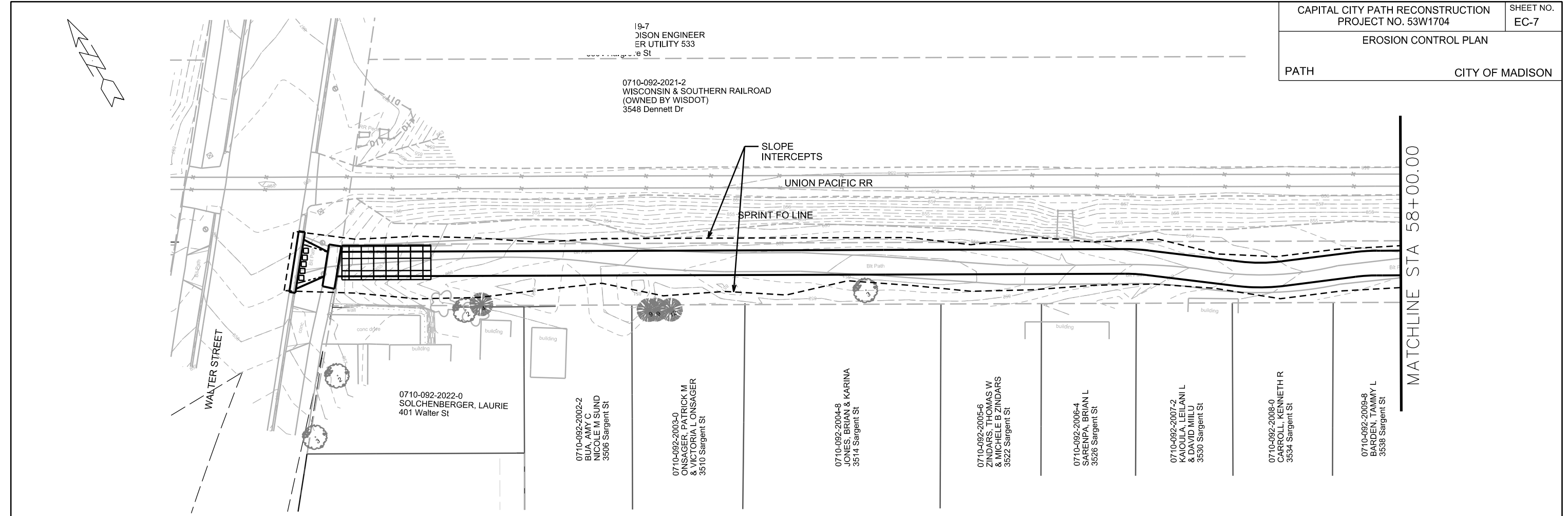


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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

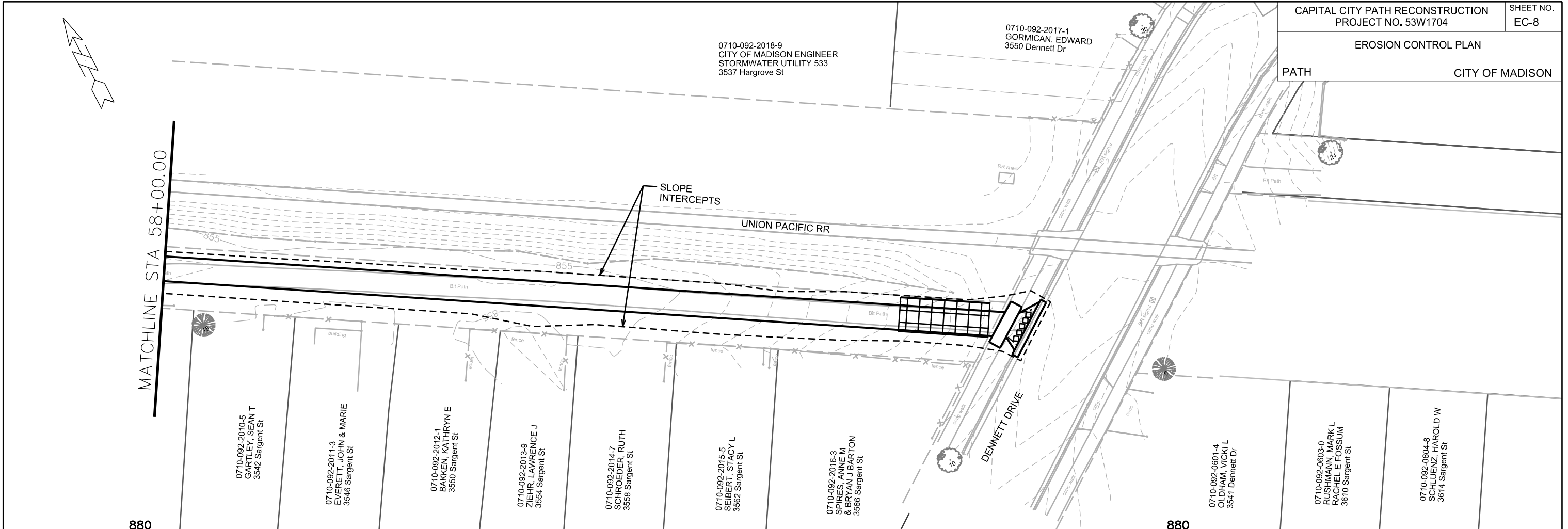


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



MATCHLINE STA 58+00.00

SLOPE INTERCEPTS



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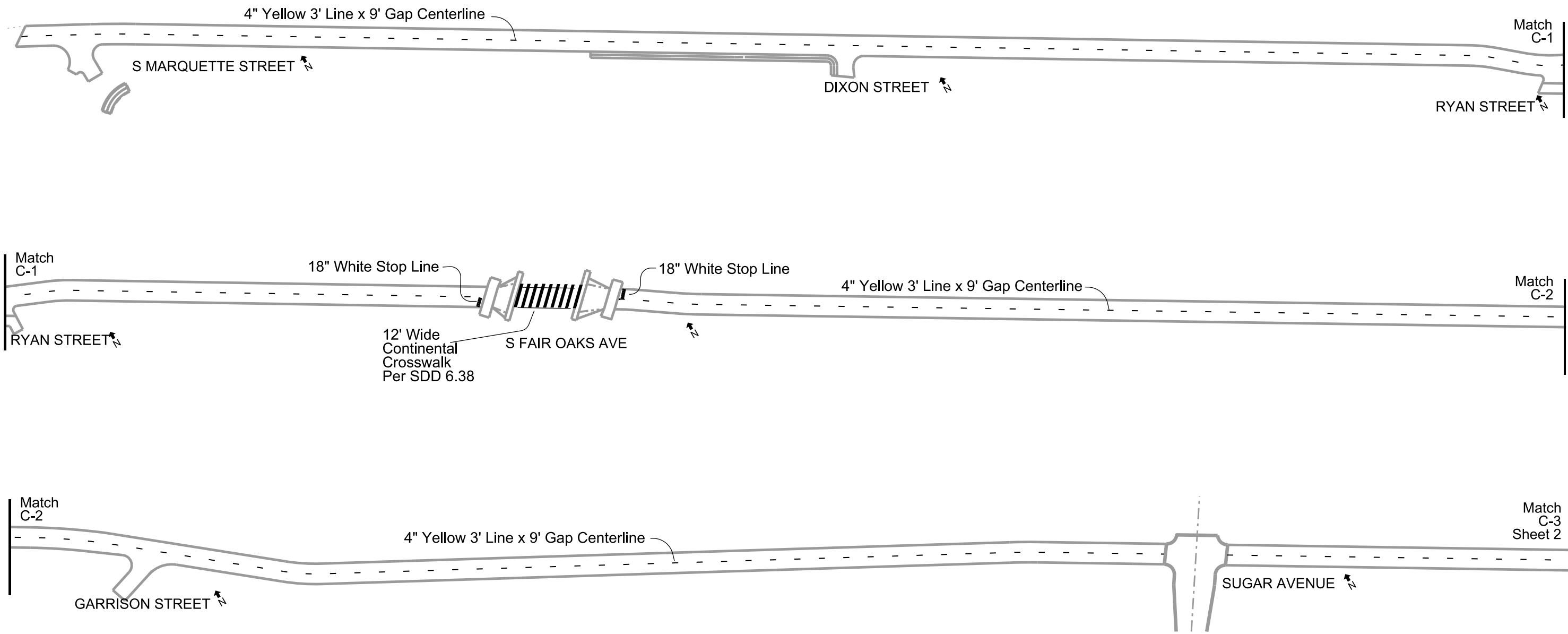
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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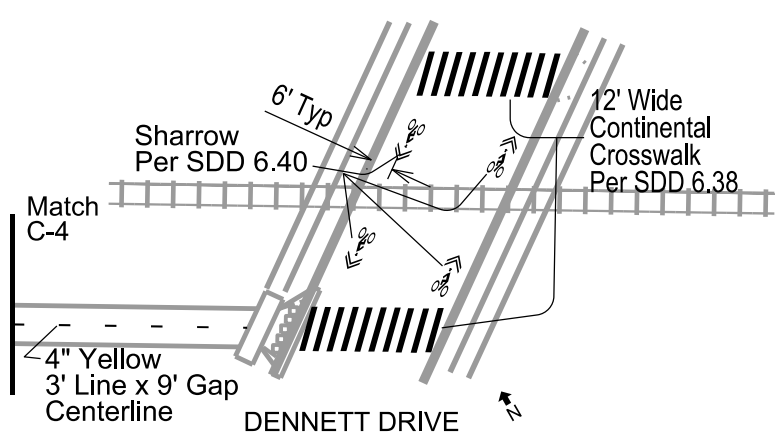
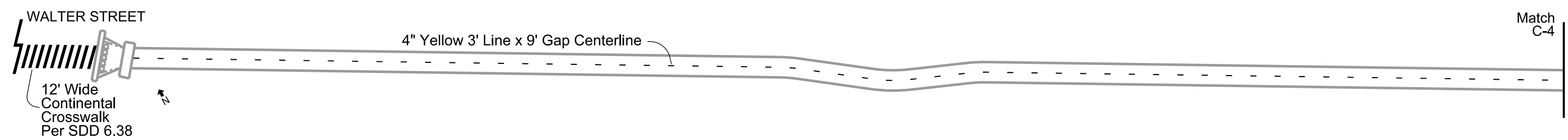
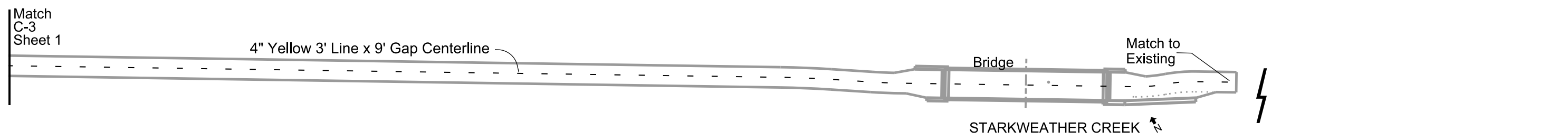
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

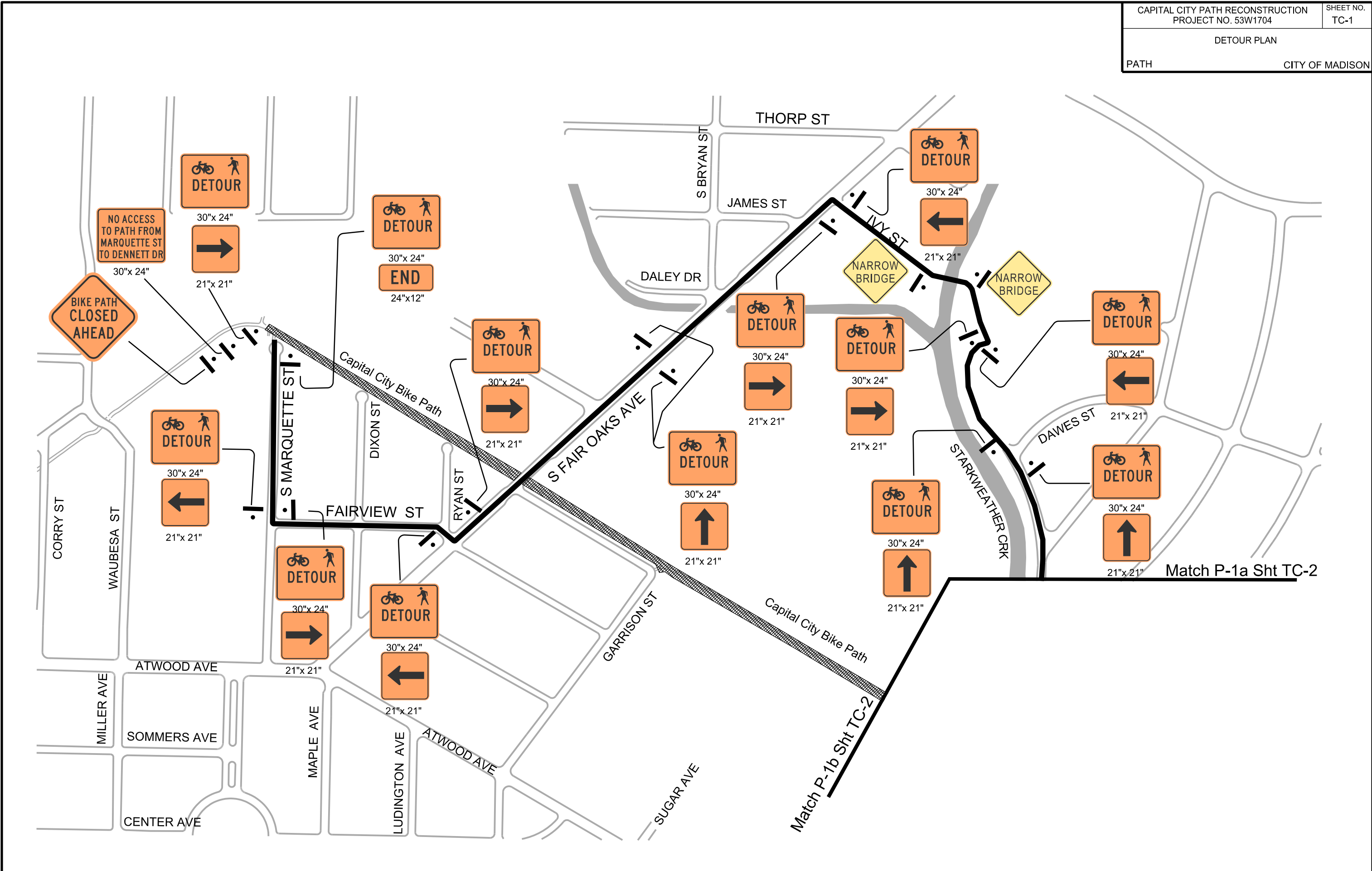


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PLOT NAME:

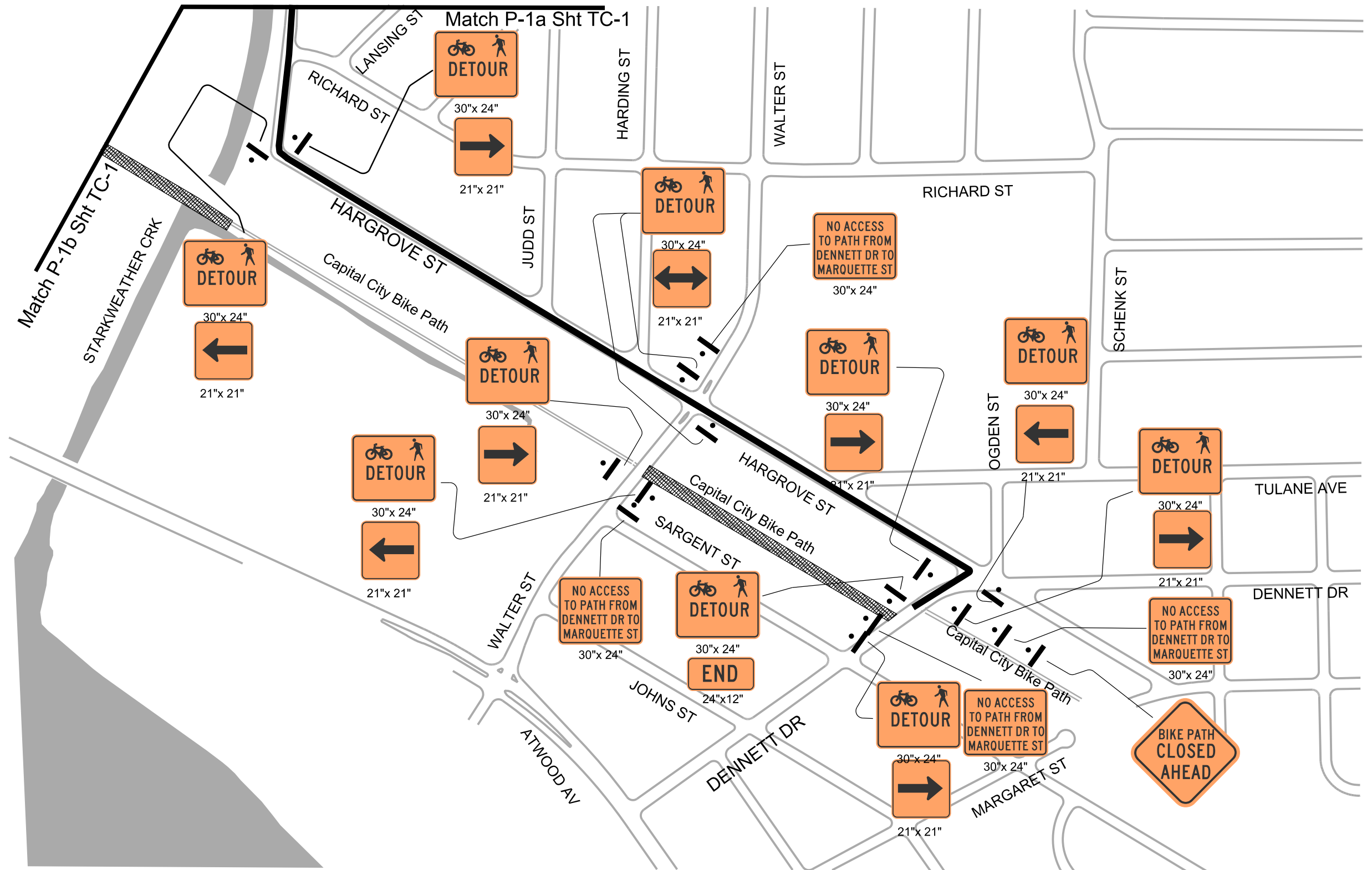
REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Match P-1a Sht TC-2

Match P-1b Sht TC-2

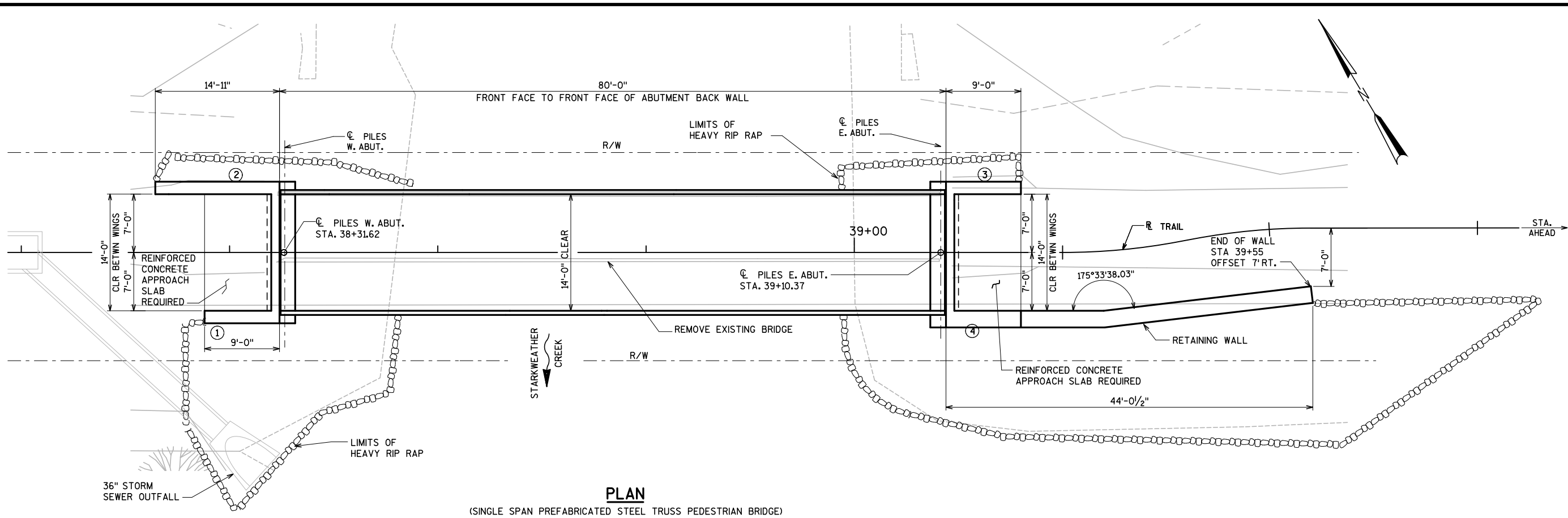


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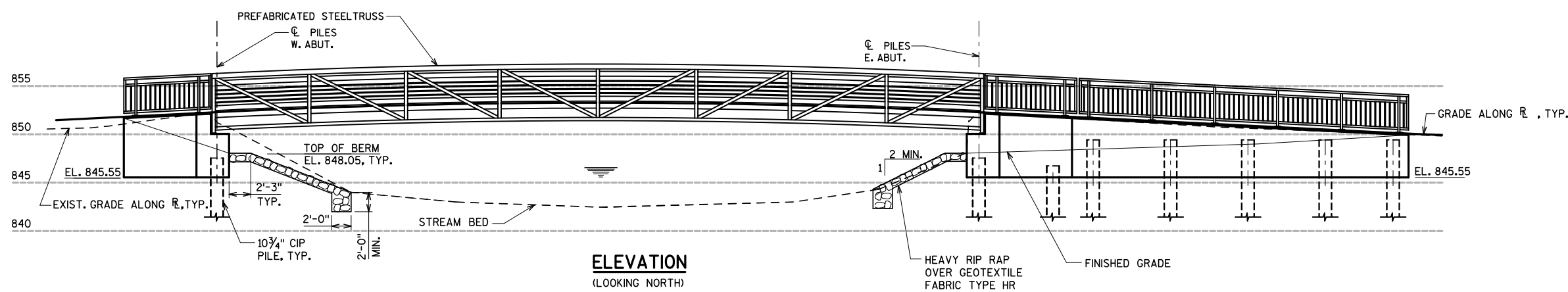
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLAN
(SINGLE SPAN PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE)



ELEVATION
(LOOKING NORTH)

DESIGN DATA

DESIGN LOADS:
 VEHICLE.....AASHTO H-10 (20,000 LBS)
 PEDESTRIAN.....90 PSF

ULTIMATE DESIGN STRESSES:

CONCRETE
 SUBSTRUCTURES..... $f_c = 3,500$ psi
 CONCRETE DECK..... $f_c = 4,000$ psi

HIGH STRENGTH BAR STEEL
 REINFORCEMENT (GRADE 60)..... $f_y = 60,000$ psi

THE STEEL FOR THE PREFABRICATED STEEL TRUSS:
 W SHAPES (ASTM A992)..... $F_y = 50,000$ psi
 RECTANGULAR HSS
 (ASTM A500, GR. B)..... $F_y = 46,000$ psi
 CHANNELS AND ANGLES
 (ASTM A36)..... $F_y = 36,000$ psi

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 3/4" DIA. CAST-IN-PLACE PIPE PILING.

REQUIRED DRIVING RESISTANCE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA IS 75 TONS PER PILE.

THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

ESTIMATED PILE LENGTH BELOW BOTTOM OF ABUTMENT:
 W. ABUTMENT AND WINGS = 80 FT.
 E. ABUTMENT AND WINGS = 80 FT.
 E. ABUTMENT RETAINING WALL = 45 FT

LIST OF DRAWINGS

- S01. GENERAL PLAN AND ELEVATION
- S02. TYPICAL SECTIONS AND QUANTITIES
- S03. WEST ABUTMENT
- S04. EAST ABUTMENT
- S05. ABUTMENT DETAILS
- S06. WING DETAILS
- S07. BILL OF BARS
- S08. APPROACH SLAB
- S09. RAILING DETAILS
- S10. SUBSURFACE EXPLORATION

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

AT THE BACKFACE OF ABUTMENT ALL VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURAL BACKFILL.

FABRICATION, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WISCONSIN DOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2014.

EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

ALL DIMENSIONS ARE IN FEET AND INCHES, UNLESS OTHERWISE NOTED.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIP RAP AND GEOTEXTILE FABRIC TYPE HR TO THE EXTENT SHOWN ON THIS SHEET.

STEEL RAILING FOR ABUTMENT WINGWALLS AND RETAINING WALLS SHALL BE GALVANIZED AND PAINTED AND INCLUDED IN THE BID ITEM "STEEL RAILING APPROACHES".

THE CONCRETE DECK AND COATED BAR STEEL REINFORCEMENT IN THE DECK SHALL BE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS BRIDGE FURNISHED AND INSTALLED".

THE PREFABRICATED STEEL TRUSS MANUFACTURER SHALL CALCULATE THE DEAD LOAD DEFLECTION OF THE TRUSS AND CAMBER THE TRUSS ACCORDINGLY TO MAINTAIN THE PROFILE SHOWN ON SHEET S02 AFTER DEAD LOAD DEFLECTION.

THE PREFABRICATED STEEL TRUSS MANUFACTURER SHALL DETERMINE THE OVERALL LENGTH OF THE BRIDGE DECK CONSIDERING THERMAL MOVEMENT OF THE TRUSS FOR A TEMPERATURE RANGE OF (-)30° F TO (+)120° F.

NO.	REVISIONS	DATE

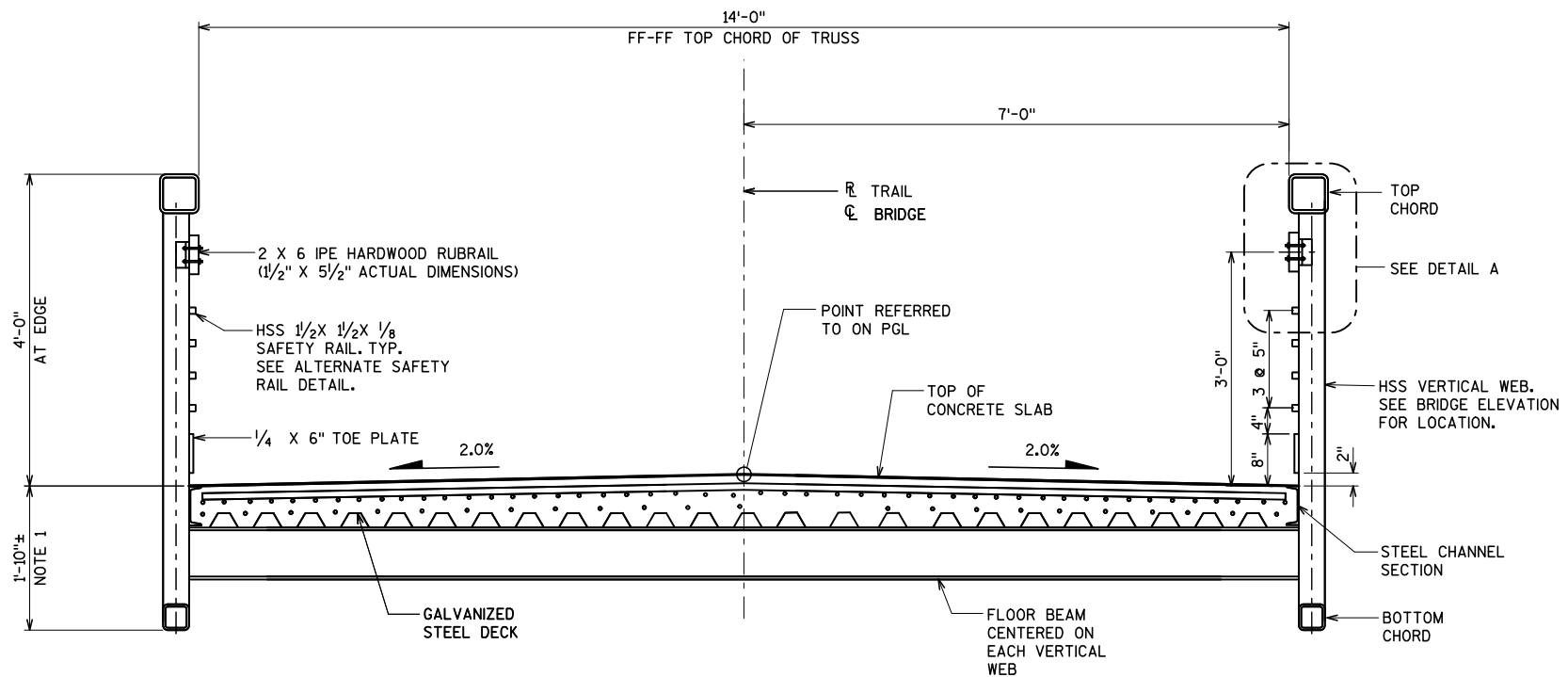
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DRAWN BY: TAZ	TAZ
CHECKED BY:	
APPROVED BY:	
DATE:	
PHASE:	

GRAPHIC SCALE	SCALE OF DRAWING	PER STANDARD INCH

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 Infrastructure, Remediation and Regulatory
 10501 W. Research Drive • Milwaukee, WI 53228
 Phone: (414) 771-3390 Fax: (414) 771-4490

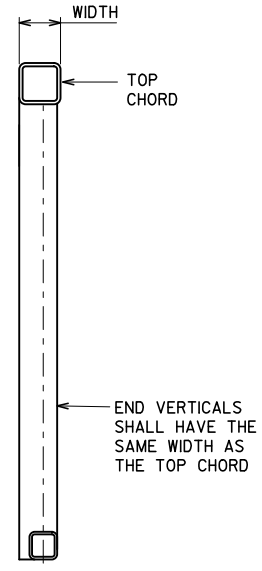
GENERAL PLAN AND ELEVATION
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

PROJECT NO. BM6-1034
SHEET NO. S01

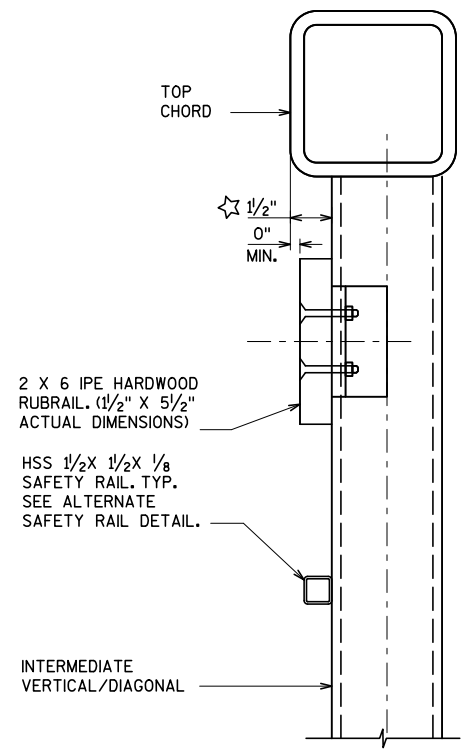


NOTE 1:
DEPTH OF TRUSS BELOW TOP OF SLAB TO BE DETERMINED BY THE CONTRACTOR. THE SUBSTRUCTURE DIMENSIONS IN THIS PLAN SET ASSUME A TRUSS DEPTH OF 1'-10" BELOW TOP OF SLAB.

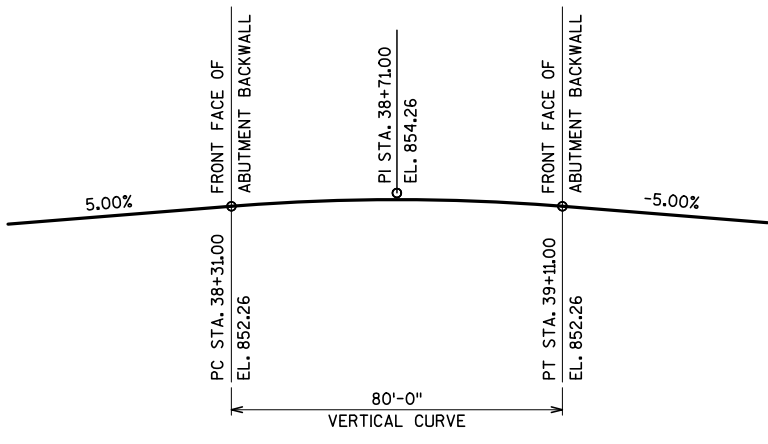
TYPICAL SECTION
(LOOKING EAST)



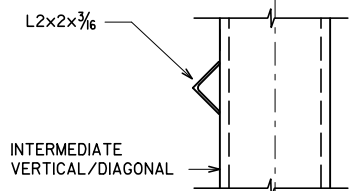
TYPICAL SECTION THRU END VERTICAL



DETAIL A



PROFILE GRADE LINE



ALTERNATE SAFETY RAIL DETAIL

TOTAL ESTIMATED QUANTITIES

ITEM	TYPE OF WORK	QUANTITIES	
20100	REMOVING OLD STRUCTURE STATION 38+71	1	LS
20200	HEAVY RIP RAP	161	CY
90000	GEOTEXTILE FABRIC TYPE HR	266	SY
90101	PILING CIP CONCRETE 10 3/4" X 0.5-INCH	948	LF
90102	REINFORCED CONCRETE BRIDGE ABUTMENTS, WINGWALLS, AND RETAINING WALL	1	LS
90103	PREFABRICATED STEEL TRUSS BRIDGE FURNISHED AND INSTALLED	1	LS
90104	REINFORCED CONCRETE APPROACH SLABS	25	SY
90105	STEEL RAILING APPROACHES	77	LF

ALL COMPONENTS SHOWN ON THIS PAGE AND THE SLIDING PLATE SHOWN ON SHEET S03 ARE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS BRIDGE FURNISHED AND INSTALLED".

LEGEND

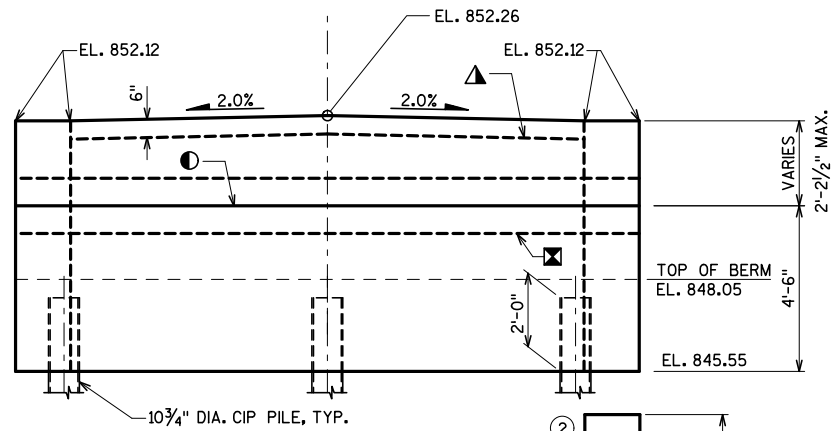
☆ TOP CHORD TO OVERHANG INTERMEDIATE VERTICALS AND DIAGONAL MEMBERS (EXCEPT FOR END VERTICALS) BY 1/2" AND SHALL BE FLUSH WITH IPE RUBRAIL.

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CHECKED BY: <td>TAZ</td> <td></td> <td></td> <td></td>	TAZ			
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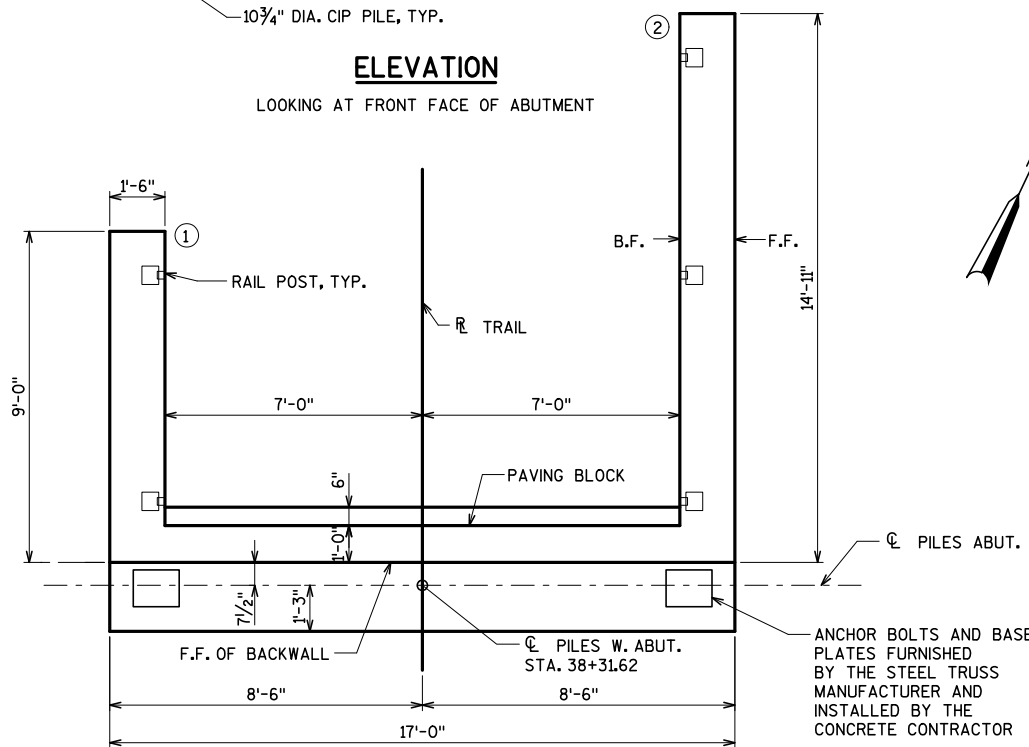
TYPICAL SECTIONS AND QUANTITIES
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

PROJECT NO.
BM6-1034
 SHEET NO.
S02

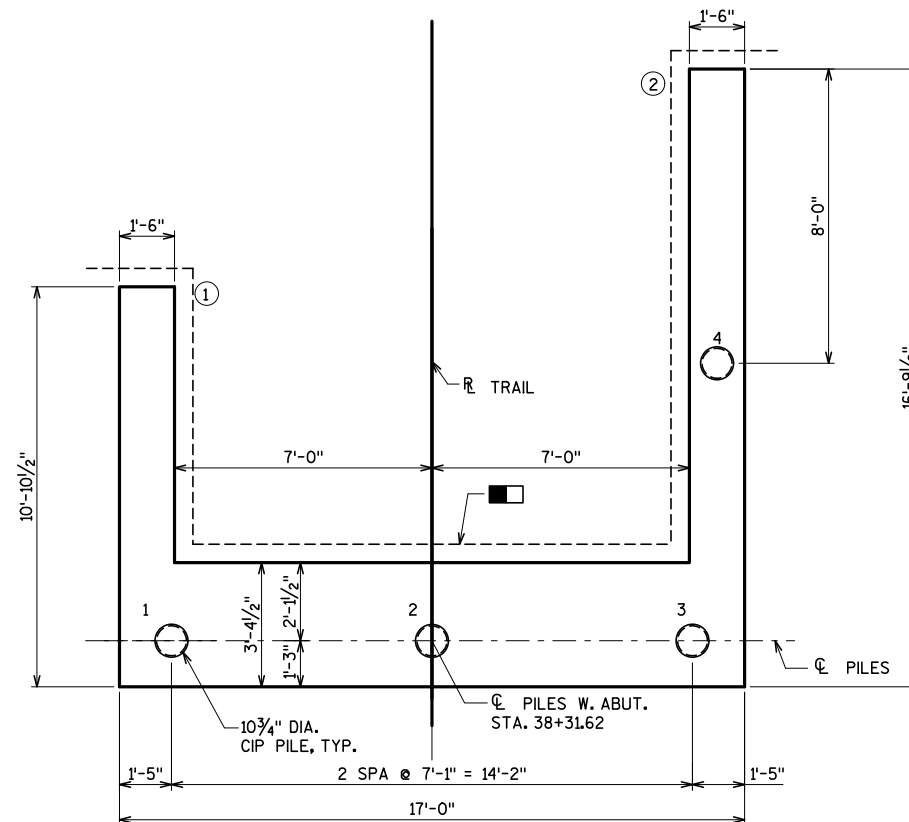


ELEVATION

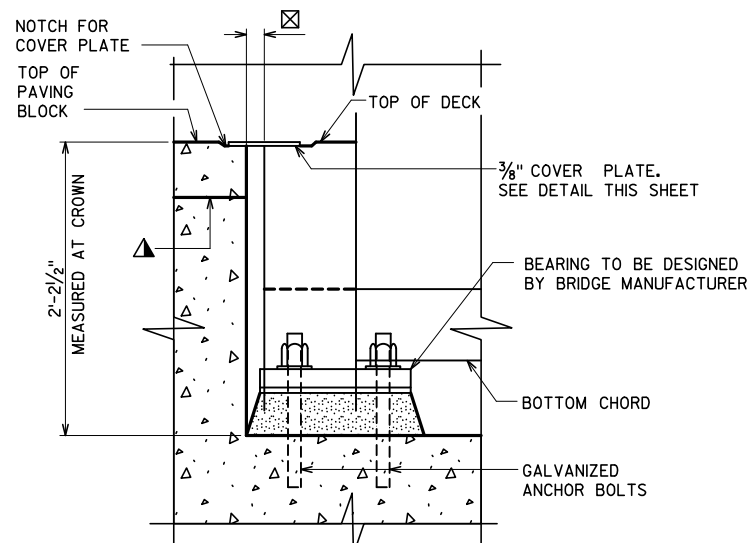
LOOKING AT FRONT FACE OF ABUTMENT



PLAN

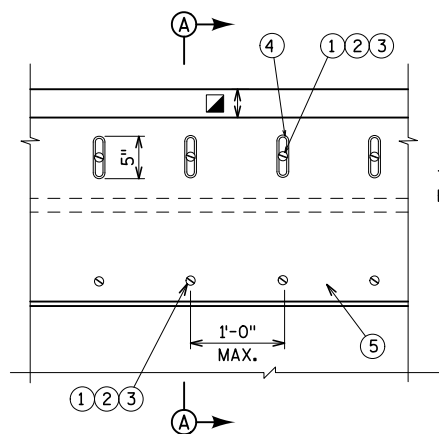


FOOTING PLAN



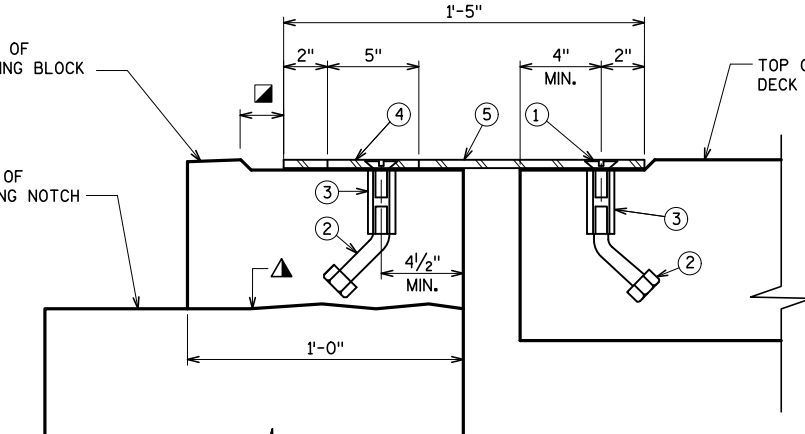
COVER PLATE / BEARING DETAIL

TYPICAL BOTH ABUTMENTS



PLAN OF COVER PLATE AT EXP. JOINT

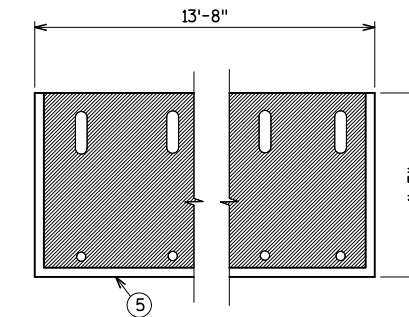
BEND COVER PLATE TO MATCH THE BRIDGE CROWN, BEFORE GALVANIZING.



SECTION A-A

F.F.- FRONT FACE
B.F.- BACK FACE

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170



PLAN OF COVER PLATE WITH SLIP RESISTANT COATING

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY

KEYED NOTES

- ① 3/4"φ X 1 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- ② 3/4"φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ③ 3/4"φ X 2 1/4" GALVANIZED THREADED COUPLING.
- ④ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- ⑤ COVER PLATE 3/8" X 1'-5" X LIMITS SHOWN. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

LEGEND

- OPTIONAL CONSTRUCTION JOINT: KEYWAY FORMED BY BEVELED 2" X 6".
- ▲ CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
- 18" RUBBERIZED MEBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.
- ▣ PIPE UNDERDRAIN, WRAPPED (6-INCH), SLOPE MIN. 0.5% TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE.
- ⊠ JOINT OPENING TO BE DETERMINED BY THE PREFABRICATED BRIDGE MANUFACTURER
- ▣ JOINT OPENING + 1/2"

NOTES

THE CONTRACTOR SHALL DEWATER THE ABUTMENT/WINGWALL FORMWORK, IF NECESSARY, PRIOR TO THE CONCRETE FOOTING POUR. DEWATERING INCLUDED IN THE BID ITEM "REINFORCED CONCRETE BRIDGE ABUTMENTS AND WINGWALLS".

SLIDING PLATES AND BEARINGS, INCLUDING ALL COMPONENTS, SHALL BE DESIGNED AND FURNISHED BY THE BRIDGE MANUFACTURER.

SANDBLAST PLATES, AND SUPPORTS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, AND SUPPORTS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM No. 2 AND No. 3 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

SEE "EAST ABUTMENT" SHEET FOR ADDITIONAL DETAILS.

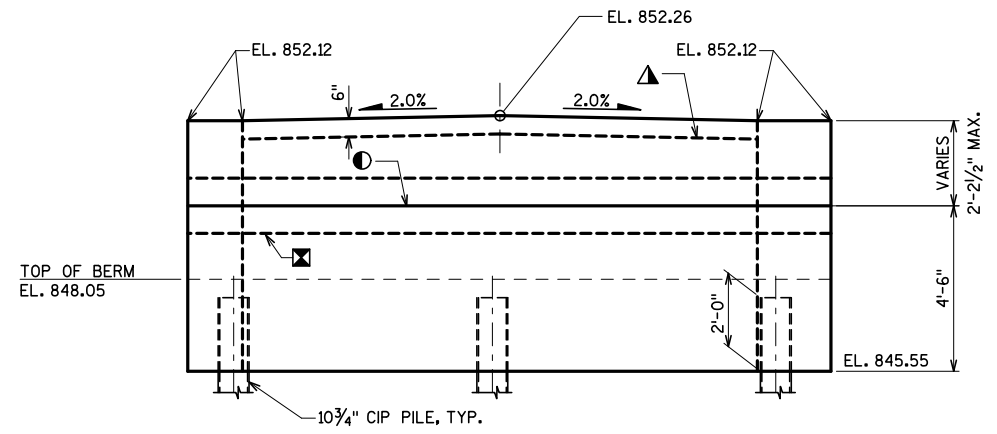
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APPROVED BY: <td></td> <td></td>		
DATE:		
PHASE:		

GRAPHIC SCALE	SCALE OF DRAWING	PER STANDARD INCH
	0	

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WEST ABUTMENT
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

PROJECT NO.	BM6-1034
SHEET NO.	S03



ELEVATION

LOOKING AT FRONT FACE OF ABUTMENT
RETAINING WALL NOT SHOWN FOR CLARITY

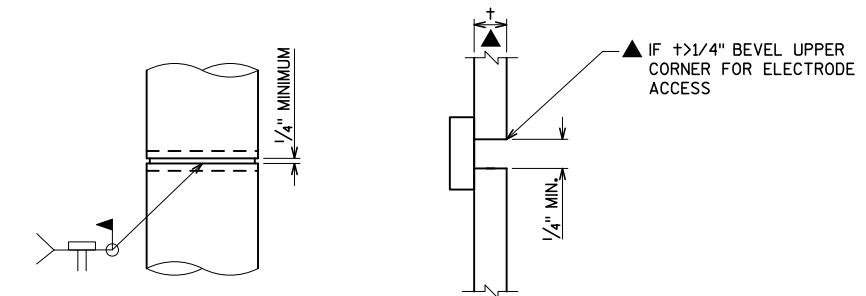
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SEE "WEST ABUTMENT" SHEET FOR ADDITIONAL DETAILS.

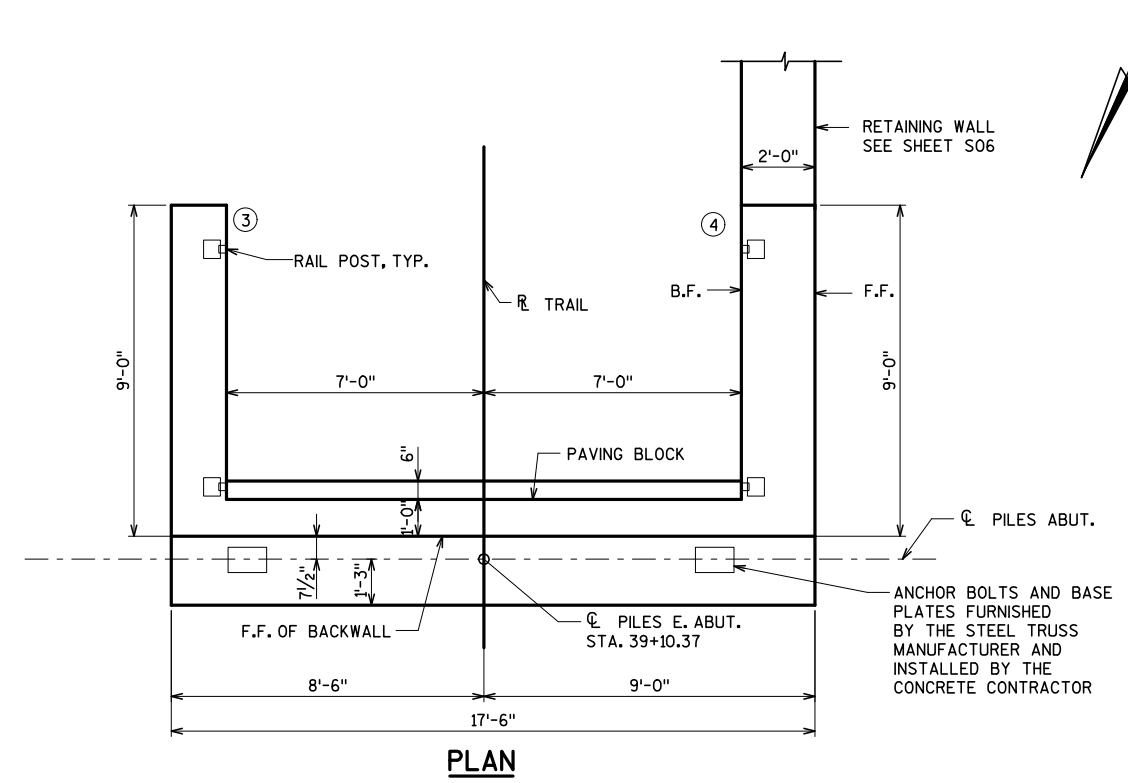
LEGEND

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- ▲ CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
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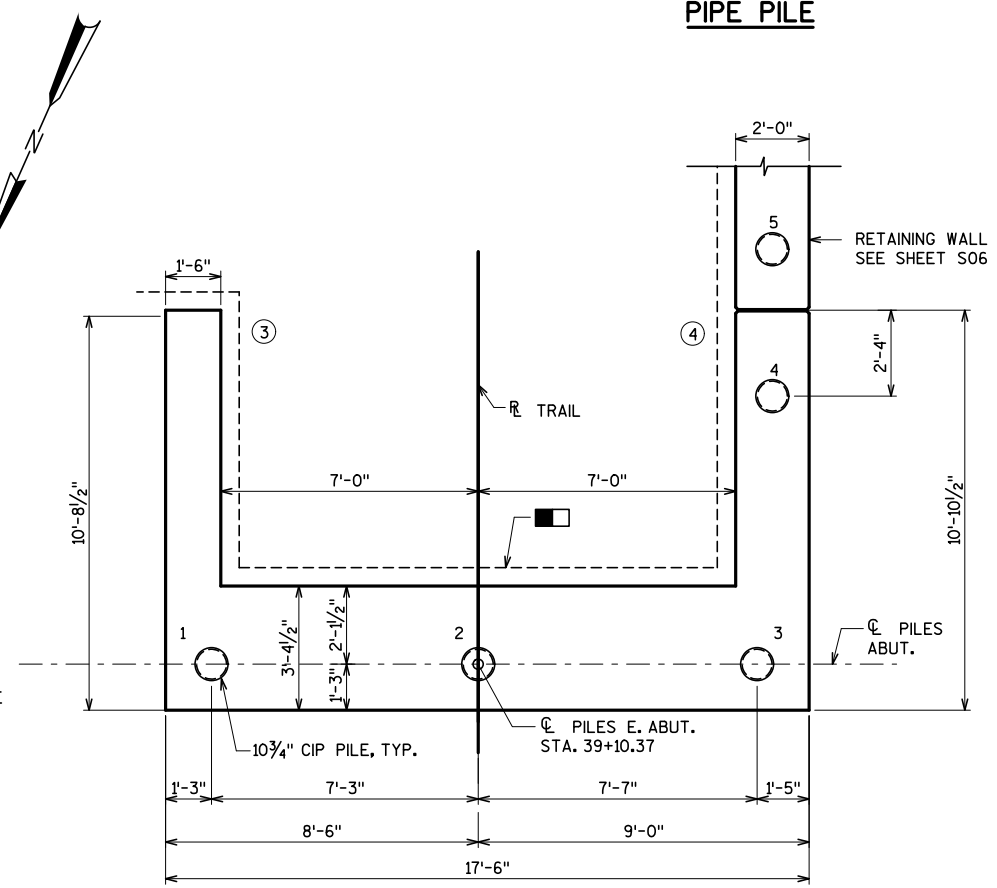
F.F.- FRONT FACE
B.F.- BACK FACE



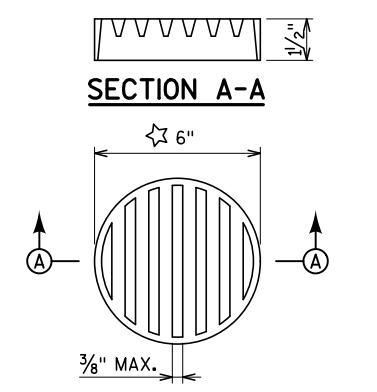
CAST-IN-PLACE PIPE PILE **CIP WELD DETAIL**



PLAN



FOOTING PLAN



TYPICAL RODENT SHIELD

☆ DIMENSIONS ARE APPROXIMATE, THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.
ORIENT SHIELD SO SLOTS ARE VERTICAL.

COST OF RODENT SHIELD AND ALL FITTINGS TO BE INCLUDED IN THE BID ITEM "REINFORCED CONCRETE BRIDGE ABUTMENTS AND WINGWALLS".

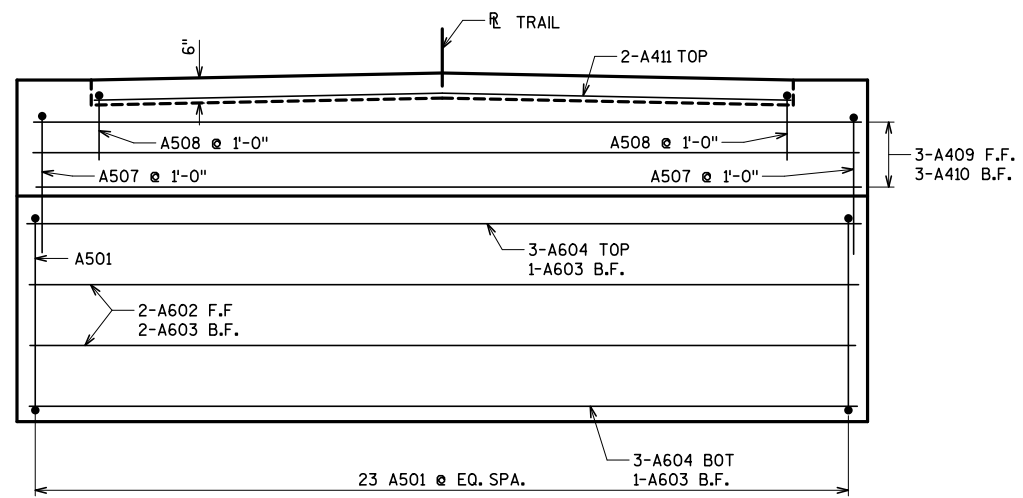
NO.	REVISIONS	DATE

BLOOM COMPANIES, LLC
Infrastructure, Remediation and Regulatory
 10501 W. Research Drive • Milwaukee, WI 53228
 Phone: (414) 771-3390 Fax: (414) 771-4490

EAST ABUTMENT
CAPITAL CITY TRAIL BRIDGE
CITY OF MADISON

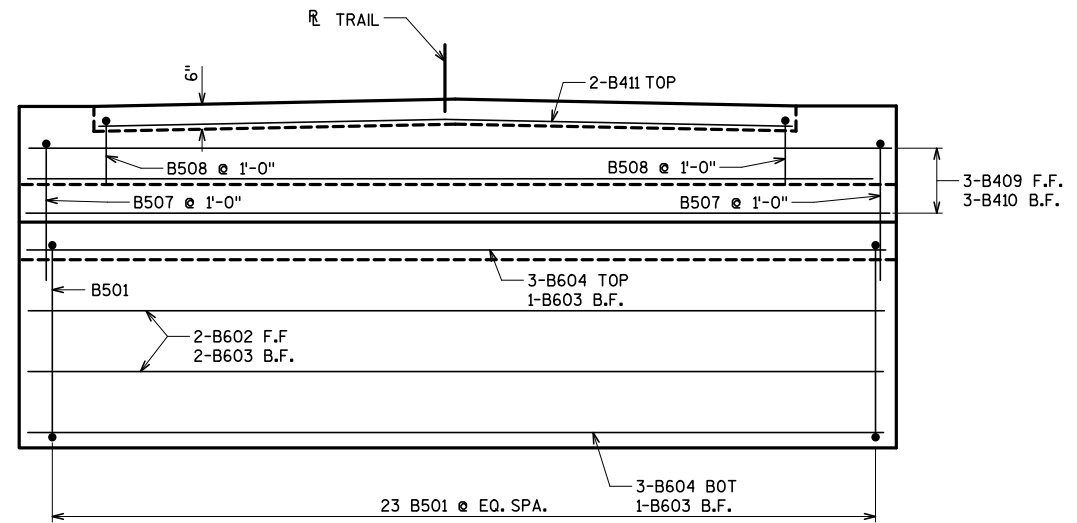
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DRAWN BY: TAZ	TAZ
CHECKED BY:	DATE:
APPROVED BY:	PHASE:

PROJECT NO. BM6-1034
SHEET NO. S04



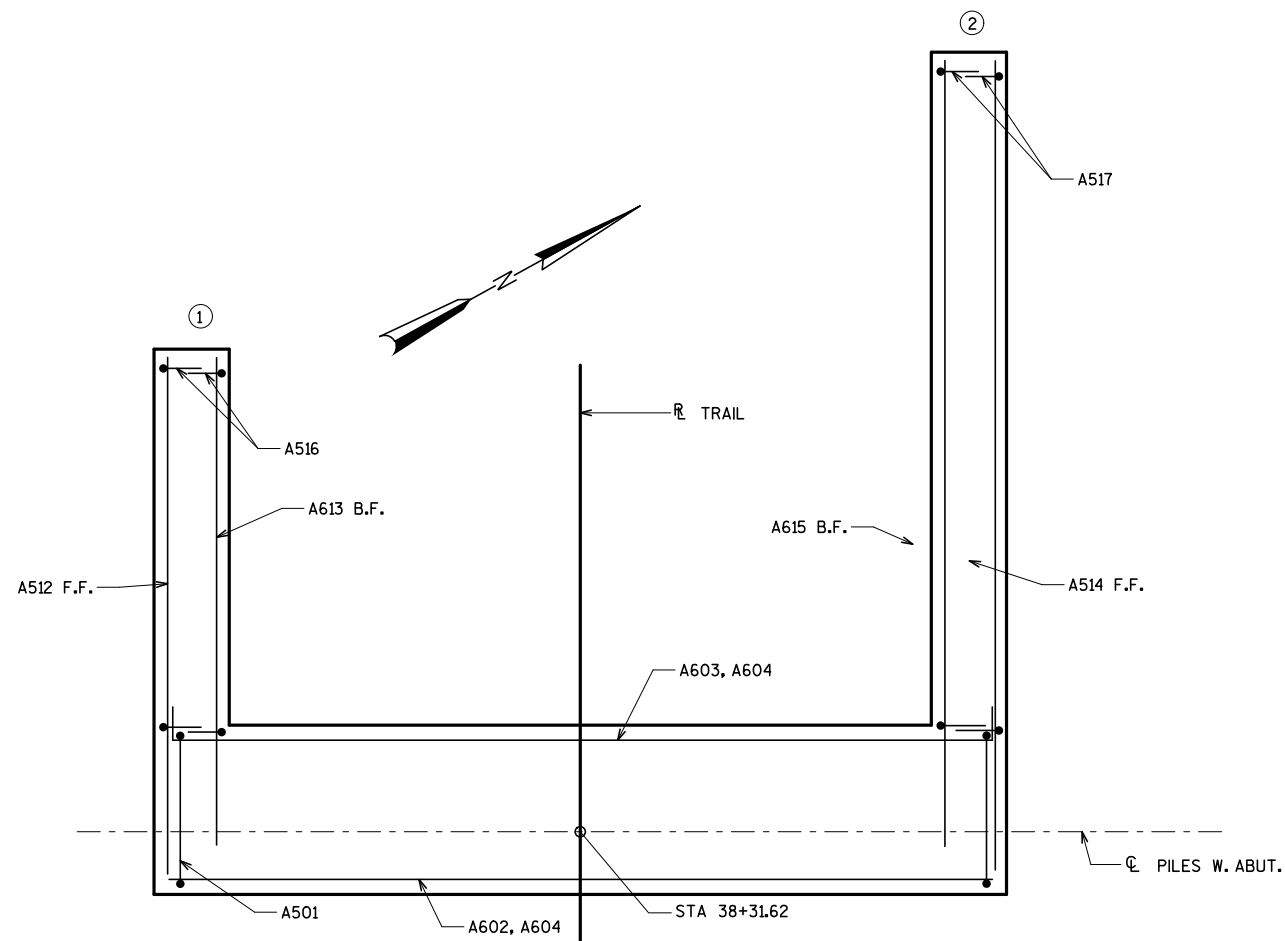
WEST ABUT. ELEVATION

(LOOKING WEST)
(PILES NOT SHOWN FOR CLARITY)



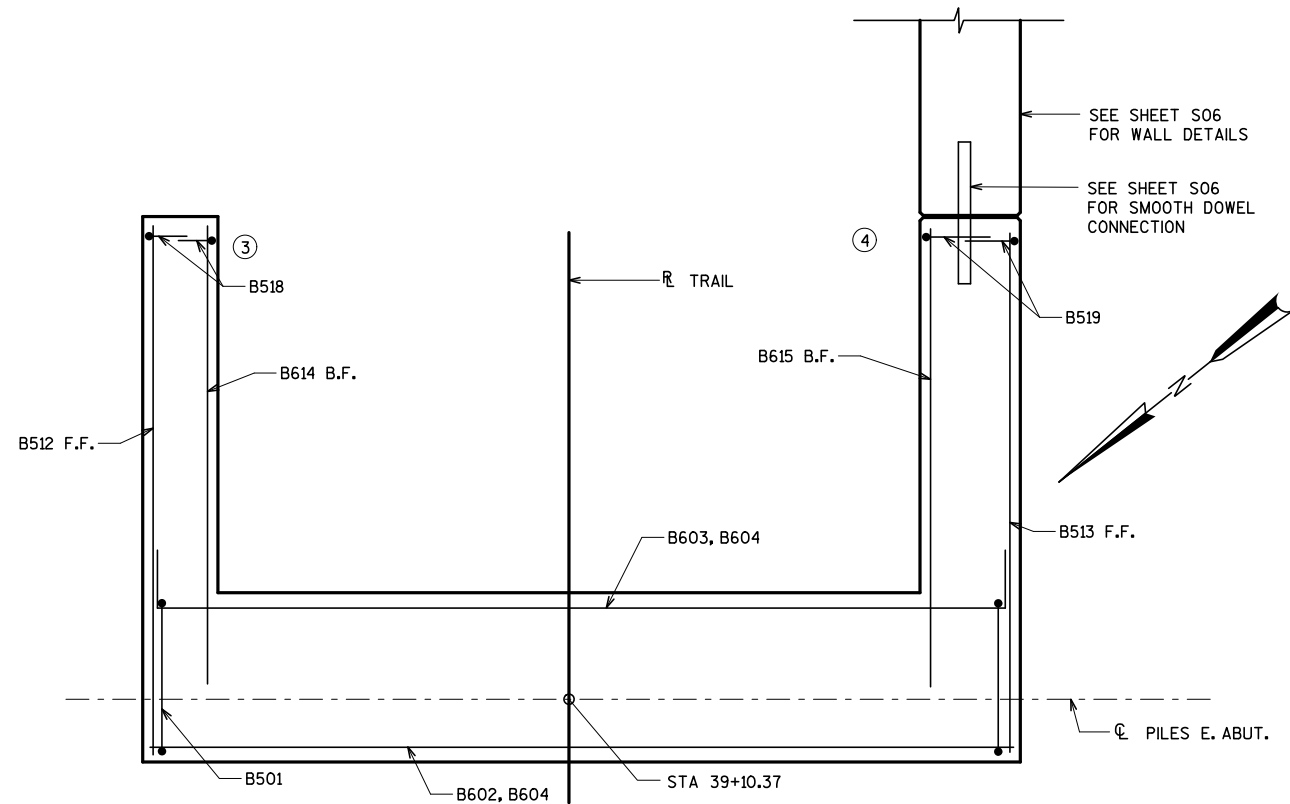
EAST ABUT. ELEVATION

(LOOKING EAST)
(PILES NOT SHOWN FOR CLARITY)



WEST ABUT. PLAN

(PILES NOT SHOWN FOR CLARITY)



EAST ABUT. PLAN

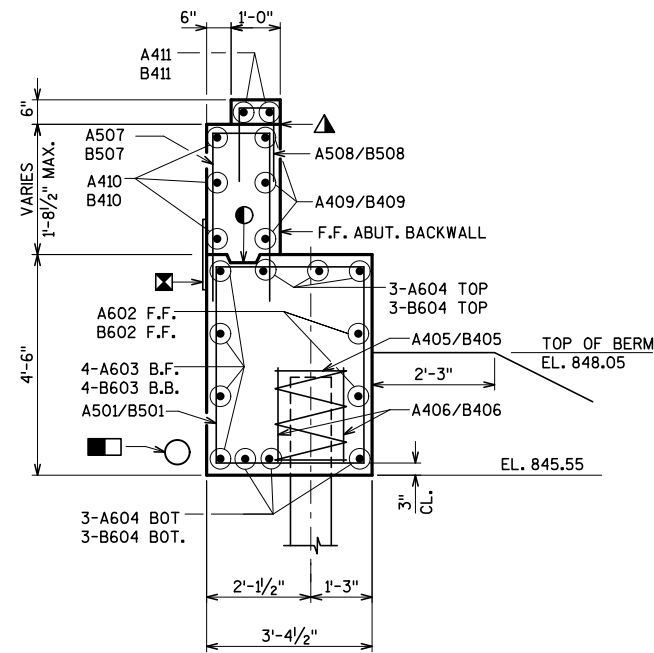
(PILES NOT SHOWN FOR CLARITY)

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APPROVED BY:			
DATE:			
PHASE:			

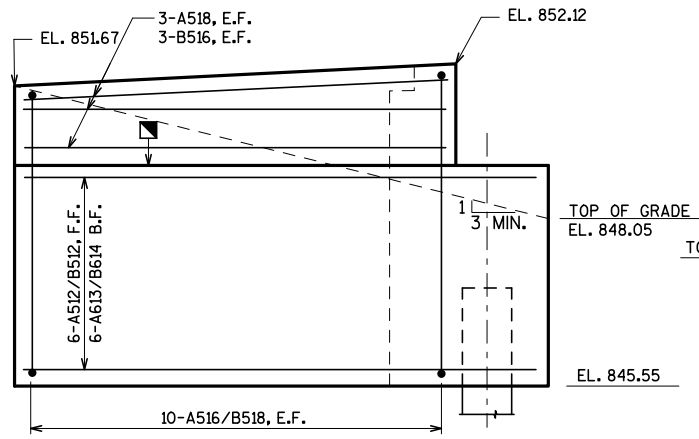
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ABUTMENT DETAILS
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

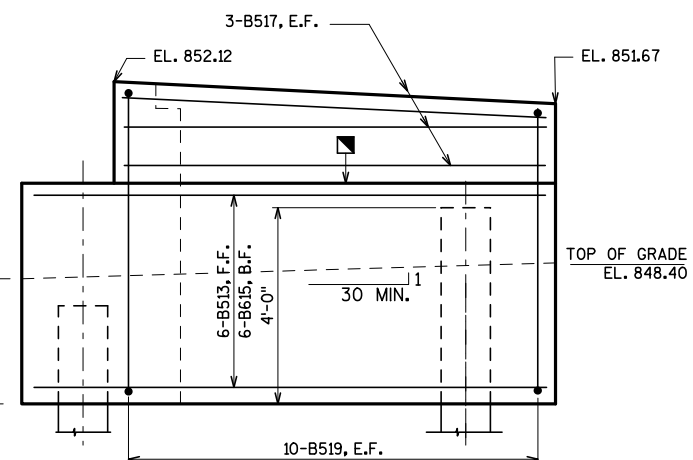
PROJECT NO.
 BM6-1034
 SHEET NO.
S05



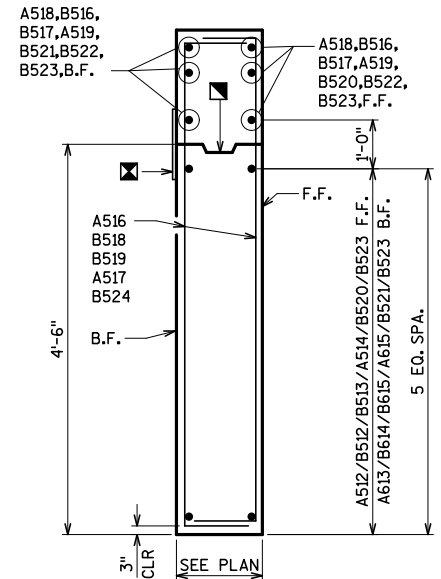
TYPICAL SECTION THRU BODY



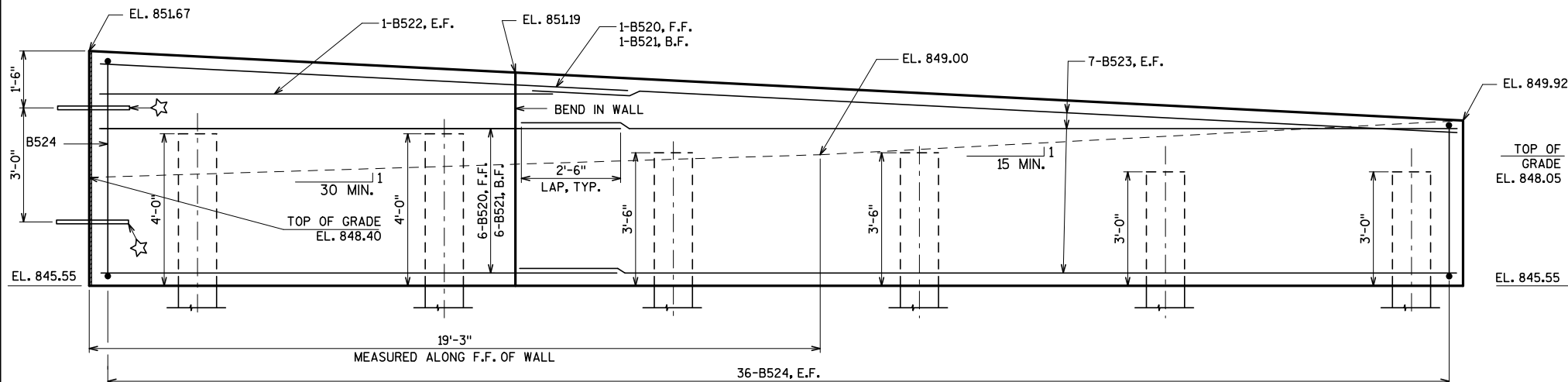
WINGS 1 & 3 ELEVATION
(LOOKING AT F.F. OF WING)



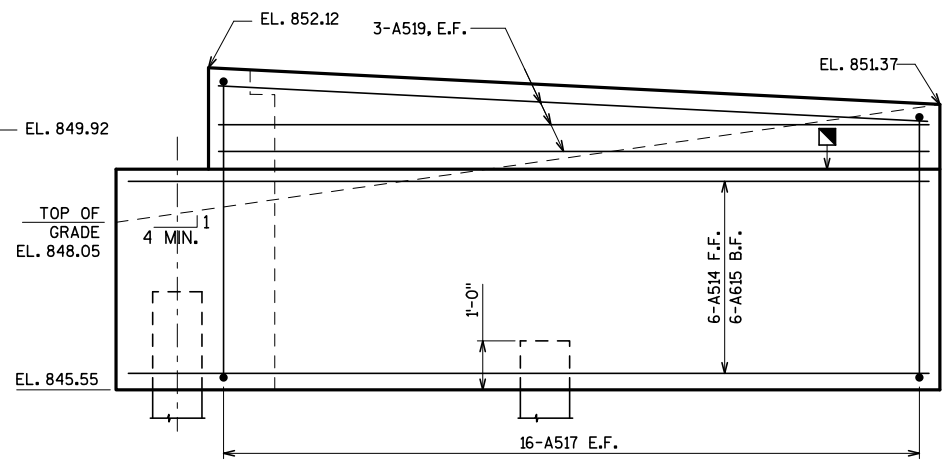
WING 4 ELEVATION
(LOOKING AT F.F. OF WING)



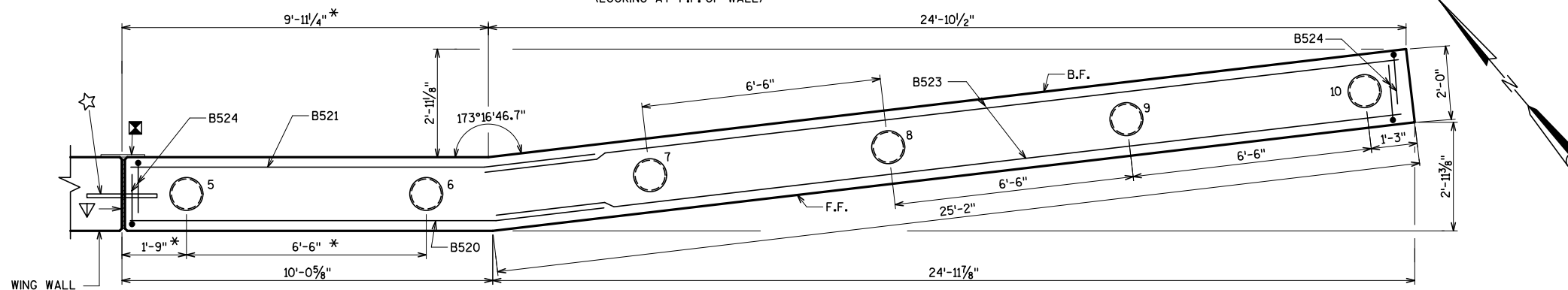
SECTION THRU WING/
RETAINING WALL
(PILES NOT SHOWN FOR CLARITY)



WING 4 RETAINING WALL ELEVATION
(LOOKING AT F.F. OF WALL)



WING 2 ELEVATION
(LOOKING AT F.F. OF WING)



WING 4 RETAINING WALL PLAN

* INCLUDES THICKNESS OF CORK FILLER
 ▽ 1" CORK FILLER FULL HEIGHT OF WALL. SEAL EXPOSED FACES OF FILLER WITH NON BITUMINOUS NON STAINING JOINT SEALER. MATCH SEALANT COLOR TO COLOR OF CONCRETE. HOLD SEALANT 1/8" BELOW CONCRETE SURFACE. CHAMFER WALL CORNERS 3/4". COST INCLUDED IN BID ITEM "REINFORCED CONCRETE BRIDGE ABUTMENTS AND WING WALLS".

- LEGEND**
- OPTIONAL CONSTRUCTION JOINT: KEYWAY FORMED BY BEVELED 2 X 6.
 - △ CONSTRUCTION JOINT: POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
 - ▣ OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 X 6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
 - ▣ PIPE UNDERDRAIN, WRAPPED (6-INCH), SLOPE MIN. 0.5% TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE.
 - ▣ 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW) SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
 - ☆ (2)-1"Ø PLAIN (SMOOTH) ROUND DOWEL BAR, 2'-6" LONG BETWEEN WING AND RETAINING WALL. EMBED 1'-3" INTO WING AND RETAINING WALL. USE DEBONDER ON EXTENSION INTO RETAINING WALL. BEND AS REQUIRED. ASTM A36 MATERIAL MAY BE SUBSTITUTED FOR AASHTO M31. COST INCLUDED IN BID ITEM "REINFORCED CONCRETE BRIDGE ABUTMENTS AND WING WALLS".
- F.F. - FRONT FACE
 B.F. - BACK FACE
 E.F. - EACH FACE

DATE	REVISIONS	NO.	DESIGNED BY:	BDT	TAL	TAZ	PHASE:
			DRAWN BY:				
			CHECKED BY:				
			APPROVED BY:				
			DATE:				

GRAPHIC SCALE
 SCALE OF DRAWING
 0
 PER STANDARD INCH

BLOOM COMPANIES, LLC
 Infrastructure, Maintenance and Agency
 10501 W. Research Drive • Milwaukee, WI 53228
 Phone: (414) 771-3390 Fax: (414) 771-4490

WING DETAILS
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

PROJECT NO.
 BM6-1034
 SHEET NO.
 S06

BILL OF BARS- WEST ABUTMENT

FOR INFORMATION PURPOSES ONLY

BAR MARK	COAT	QTY	LENGTH	BENT	BAR SERIES	LOCATION
A501	X	23	14'-8"	X	-	BODY STIRRUPS
A602	X	2	16'-8"	-	-	BODY LONGIT, F.F.
A603	X	4	18'-4"	X	-	BODY LONGIT, B.F.
A604	X	6	16'-8"	-	-	BODY LONGIT, TOP & BOT
A405	X	3	28'-0"	X	-	BODY, AROUND PILE
A406	X	6	2'-3"	-	-	BODY, SIDE OF PILE
A507	X	18	7'-11"	X	-	BACKWALL, VERTICAL
A508	X	15	3'-5"	X	-	PAVING BLOCK, VERTICAL
A409	X	3	16'-8"	-	-	BACKWALL, LONGIT., F.F.
A410	X	3	16'-8"	-	-	BACKWALL, LONGIT., B.F.
A411	X	2	13'-11"	-	-	PAVING BLOCK, LONGIT
A512	X	6	10'-5"	-	-	WING 1 LONGITUDINAL, F.F.
A613	X	6	9'-6"	-	-	WING 1 LONGITUDINAL, B.F.
A514	X	6	16'-5"	-	-	WING 2 LONGITUDINAL, F.F.
A615	X	6	15'-5"	-	-	WING 2 LONGITUDINAL, B.F.
A516	X	20	7'-11"	X	X	WING 1 VERTICAL
A517	X	32	7'-10"	X	X	WING 2 VERTICAL
A518	X	6	8'-7"	-	-	WING 1 LONGITUDINAL
A519	X	6	14'-6"	-	-	WING 2 LONGITUDINAL

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NUMBER REQUIRED	LENGTH
A516	2 SERIES OF 10	7'-9" TO 8'-2"
A517	2 SERIES OF 16	7'-6" TO 8'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY

ABUTMENT ESTIMATED QUANTITIES (SEE NOTE 1)

FOR INFORMATION PURPOSES ONLY

ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.*	TOTAL
206.1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	-	-	1
210.0100	BACKFILL STRUCTURE	CY	34	67	101
502.0100	CONCRETE MASONRY BRIDGES	CY	19	32	51
505.0405	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	2000	2950	4950
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	12
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	45	75	120

* QUANTITIES INCLUDE EAST ABUTMENT RETAINING WALL

BILL OF BARS- EAST ABUTMENT

FOR INFORMATION PURPOSES ONLY

BAR MARK	COAT	QTY	LENGTH	BENT	BAR SERIES	LOCATION
B501	X	23	14'-8"	X	-	BODY STIRRUPS
B602	X	2	17'-2"	-	-	BODY LONGIT, F.F.
B603	X	4	18'-10"	X	-	BODY LONGIT, B.F.
B604	X	6	17'-2"	-	-	BODY LONGIT, TOP & BOT
B405	X	3	28'-0"	X	-	BODY, AROUND PILE
B406	X	6	2'-3"	-	-	BODY, SIDE OF PILE
B507	X	18	7'-11"	X	-	BACKWALL, VERTICAL
B508	X	15	3'-5"	X	-	PAVING BLOCK, VERTICAL
B409	X	3	17'-2"	-	-	BACKWALL, LONGIT., F.F.
B410	X	3	17'-2"	-	-	BACKWALL, LONGIT., B.F.
B411	X	2	13'-11"	-	-	PAVING BLOCK, LONGIT
B512	X	6	10'-5"	-	-	WING 3 LONGITUDINAL, F.F.
B513	X	6	10'-5"	-	-	WING 4 LONGITUDINAL, F.F.
B614	X	6	9'-6"	-	-	WING 3 LONGITUDINAL, B.F.
B615	X	6	9'-6"	-	-	WING 4 LONGITUDINAL, B.F.
B516	X	6	8'-7"	-	-	WING 3 LONGITUDINAL
B517	X	6	8'-7"	-	-	WING 4 LONGITUDINAL
B518	X	20	7'-11"	X	X	WING 3 VERTICAL
B519	X	20	8'-11"	X	X	WING 4 VERTICAL
B520	X	7	12'-6"	X	-	WING 4 RET.WALL LONGIT., F.F.
B521	X	7	12'-4"	X	-	WING 4 RET. WALL LONGIT., B.F.
B522	X	2	10'-2"	-	-	WING 4 RET. WALL LONGIT., E.F.
B523	X	14	24'-9"	-	-	WING 4 RET. WALL LONGIT.
B524	X	72	7'-10"	X	X	WING 4 RET. WALL VERTICAL

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

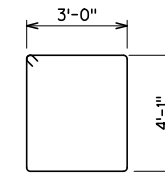
BAR SERIES TABLE

BAR MARK	NUMBER REQUIRED	LENGTH
B518	2 SERIES OF 10	7'-9" TO 8'-2"
B519	2 SERIES OF 10	8'-9" TO 9'-2"
B524	2 SERIES OF 36	6'-11" TO 8'-8"

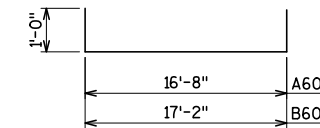
BUNDLE AND TAG EACH SERIES SEPARATELY

NOTE 1

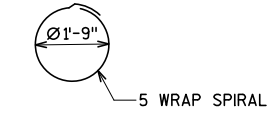
ALL ITEMS IN ESTIMATE QUANTITIES ON THIS SHEET SHALL BE INCLUDED IN THE BID ITEM "REINFORCED CONCRETE BRIDGE ABUTMENTS, WING WALLS, AND RETAINING WALLS" AND SHALL CONFORM TO THE SPECIFICATIONS FOR EACH INDIVIDUAL BID ITEM CONTAINED WITHIN THE WISDOT "2015 STANDARD SPECIFICATIONS".



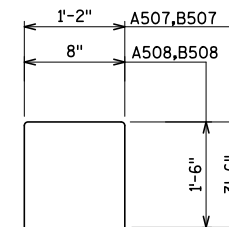
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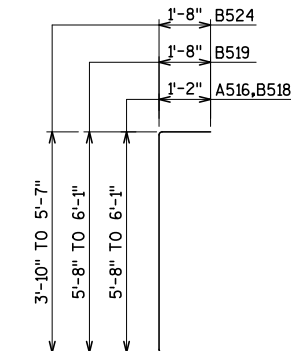
A603, B603



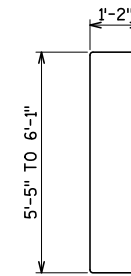
A405, B405



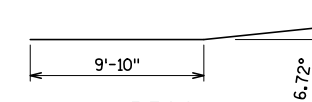
A507, A508, B507, B508



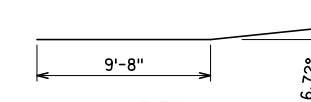
A516, B518, B519, B524



A517



B520



B521

BENDING DIAGRAMS

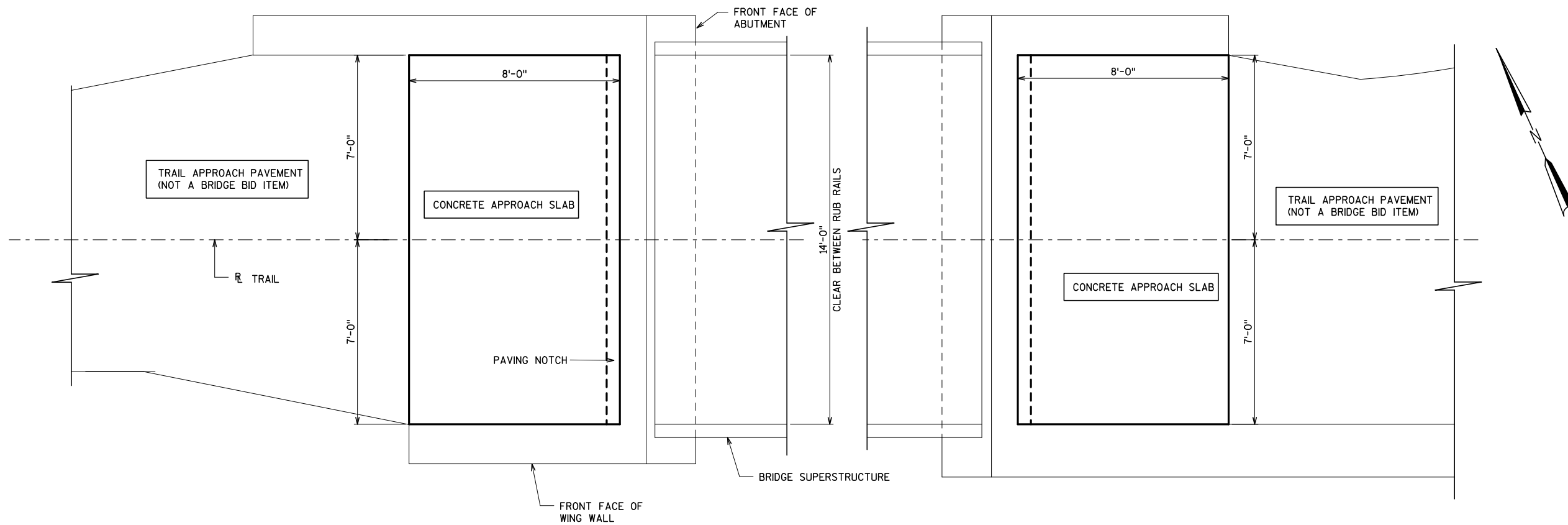
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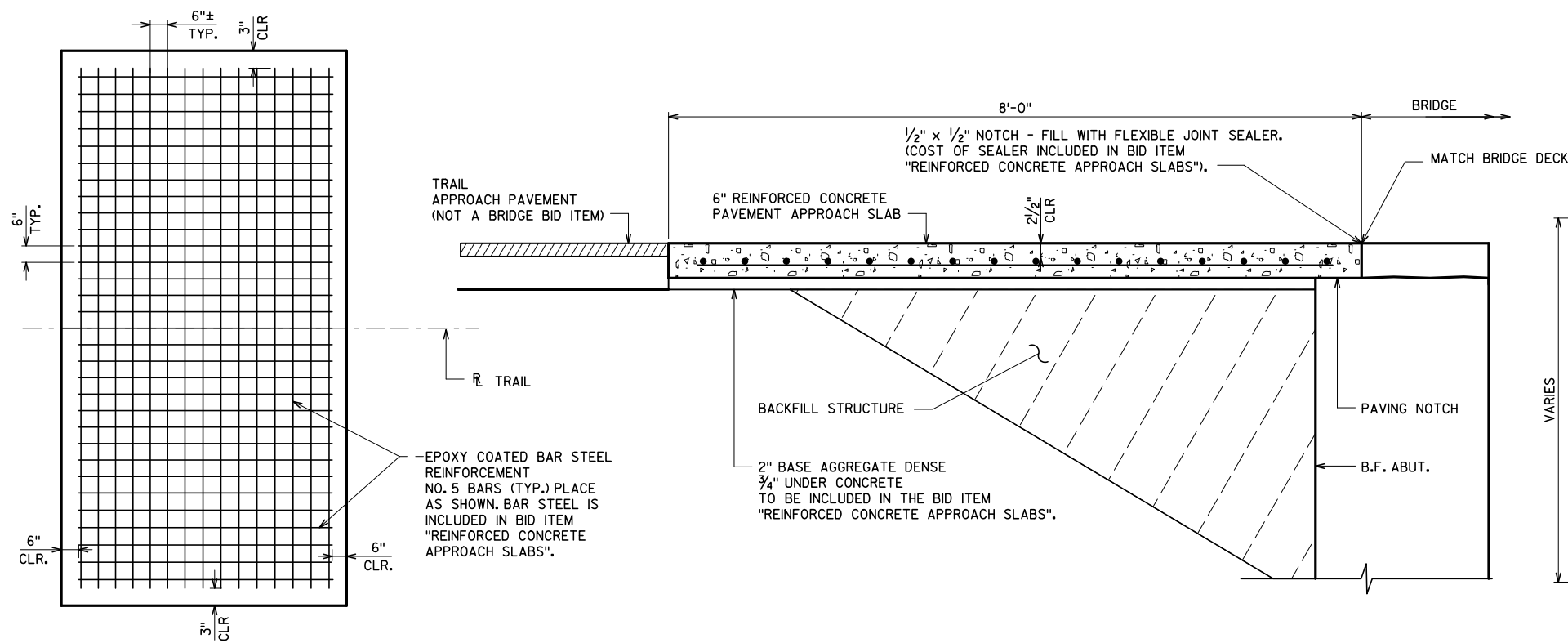
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BILL OF BARS
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

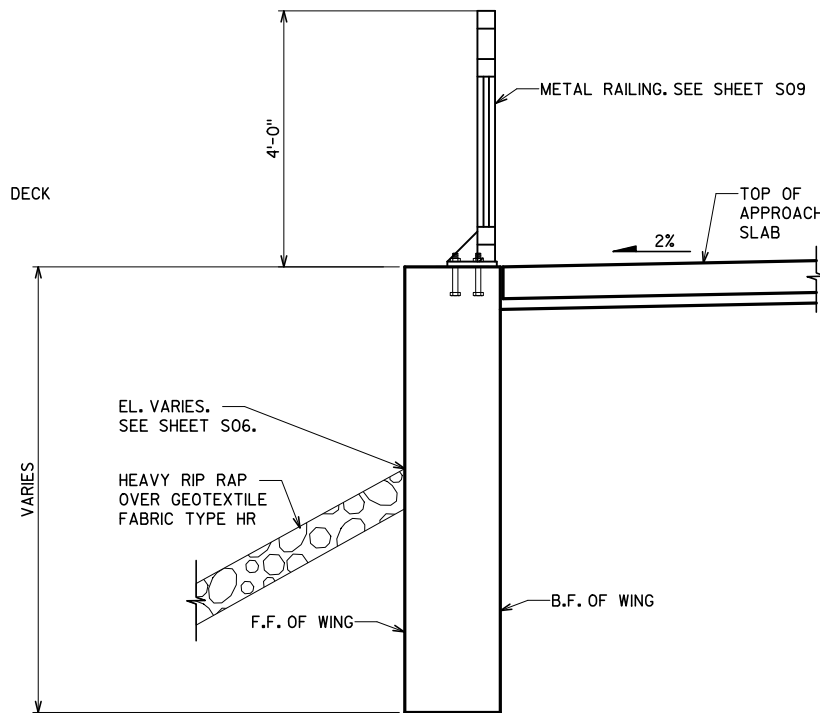
PROJECT NO. BM6-1034
SHEET NO. S07



APPROACH SLAB PLAN



APPROACH SLAB PLAN - REINFORCEMENT



SECTION THRU WING

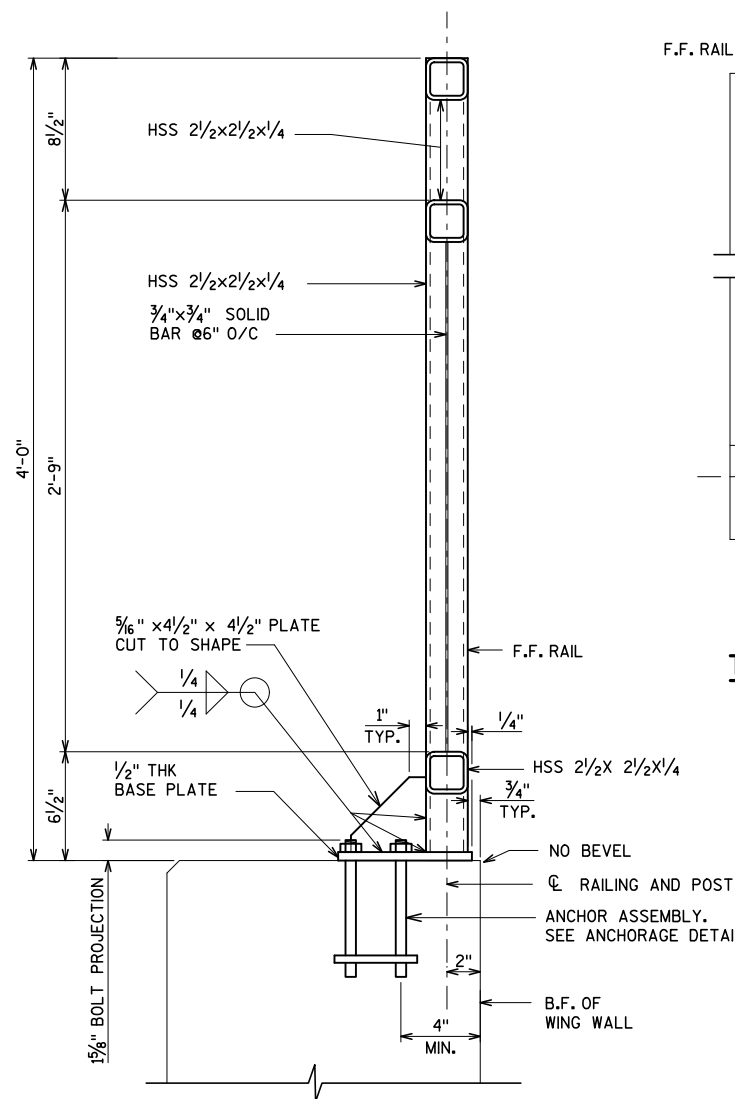
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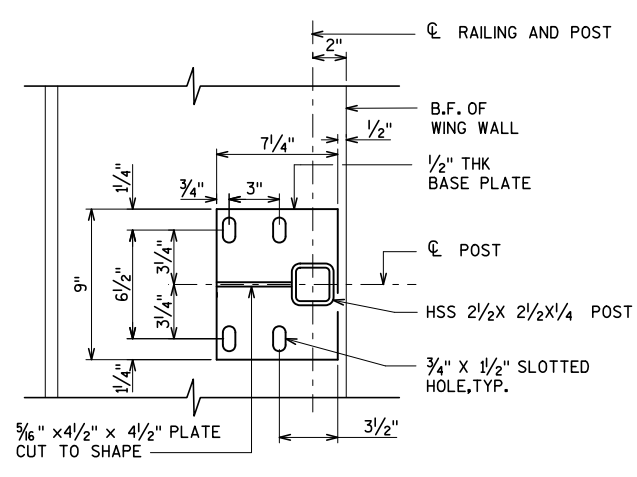
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APPROACH SLAB
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

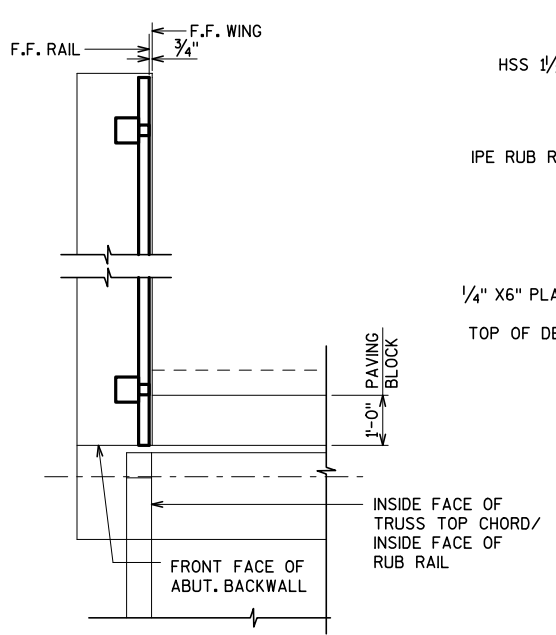
PROJECT NO.	BM6-1034
SHEET NO.	S08



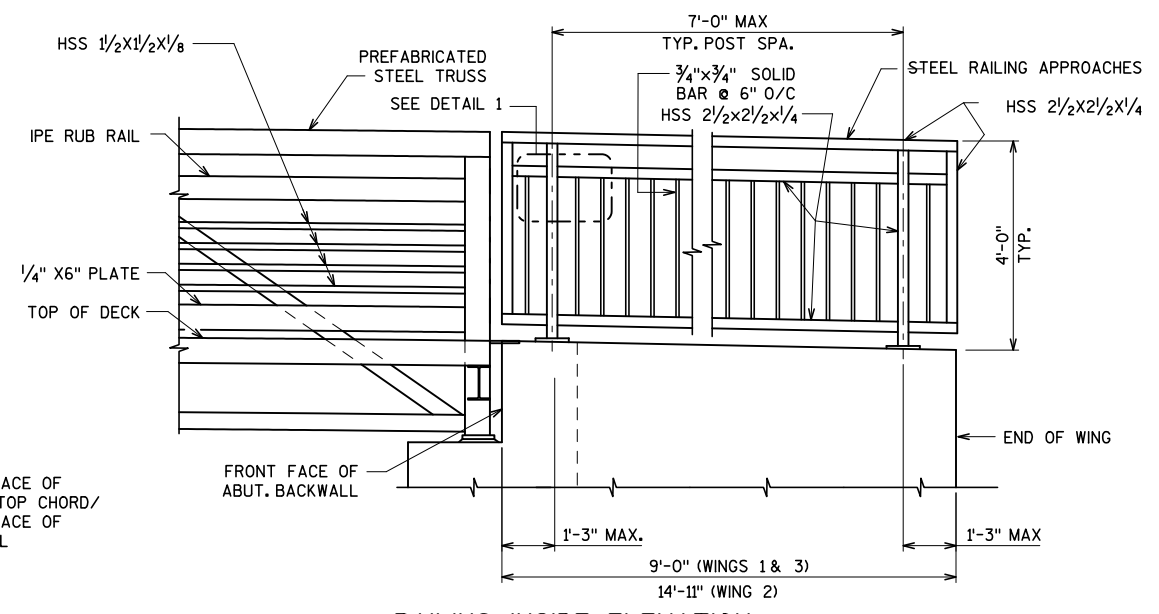
SECTION THRU RAILING



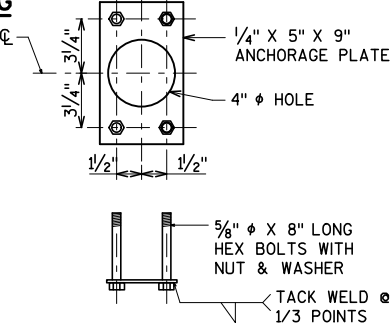
RAILING BASE PLATE



TYPICAL PLAN OF RAILING

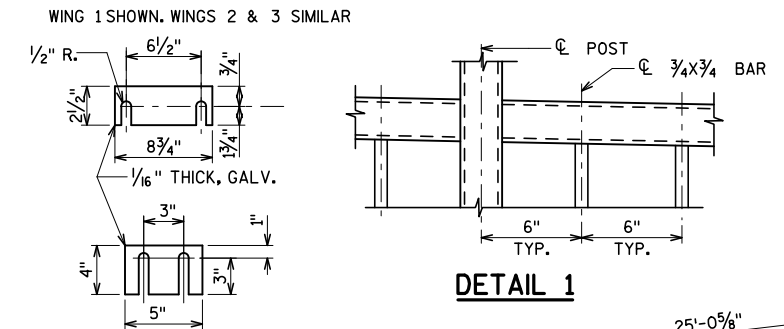


RAILING INSIDE ELEVATION



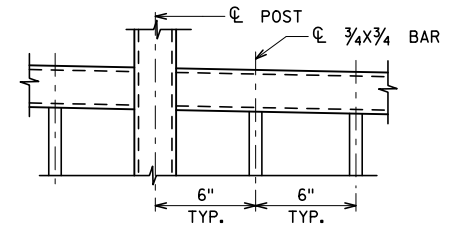
ANCHORAGE DETAIL

5/8" ϕ CONCRETE MASONRY ANCHOR, TYPE S EPOXY, 7" MINIMUM EMBEDMENT WITH A MINIMUM PULLOUT OF 20 KIPS MAY BE SUBSTITUTED FOR 5/8" CAST IN PLACE ANCHOR BOLTS. ANCHORAGE PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.

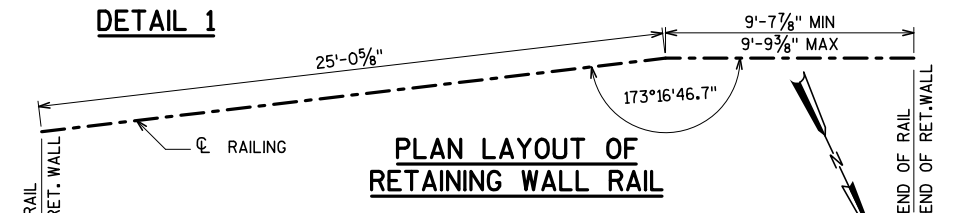


SHIM PLATE DETAILS

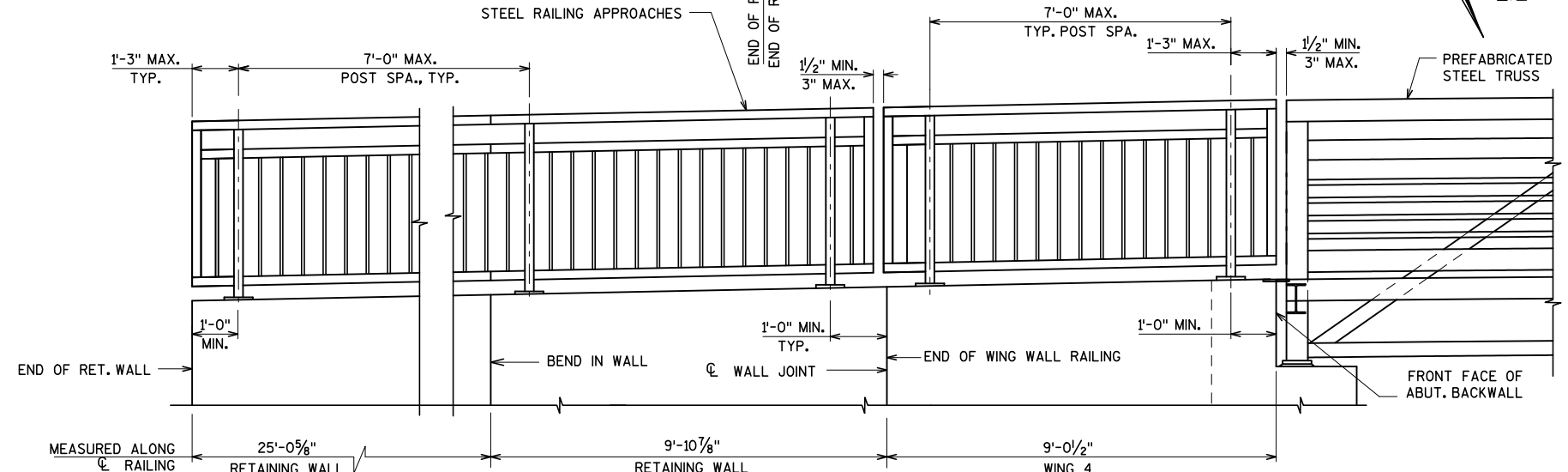
TWO SHIMS OF EACH SIZE REQUIRED PER POST



DETAIL 1



PLAN LAYOUT OF RETAINING WALL RAIL



RAILING INSIDE ELEVATION

(WING 4 AND RETAINING WALL) (NTS)

NOTES

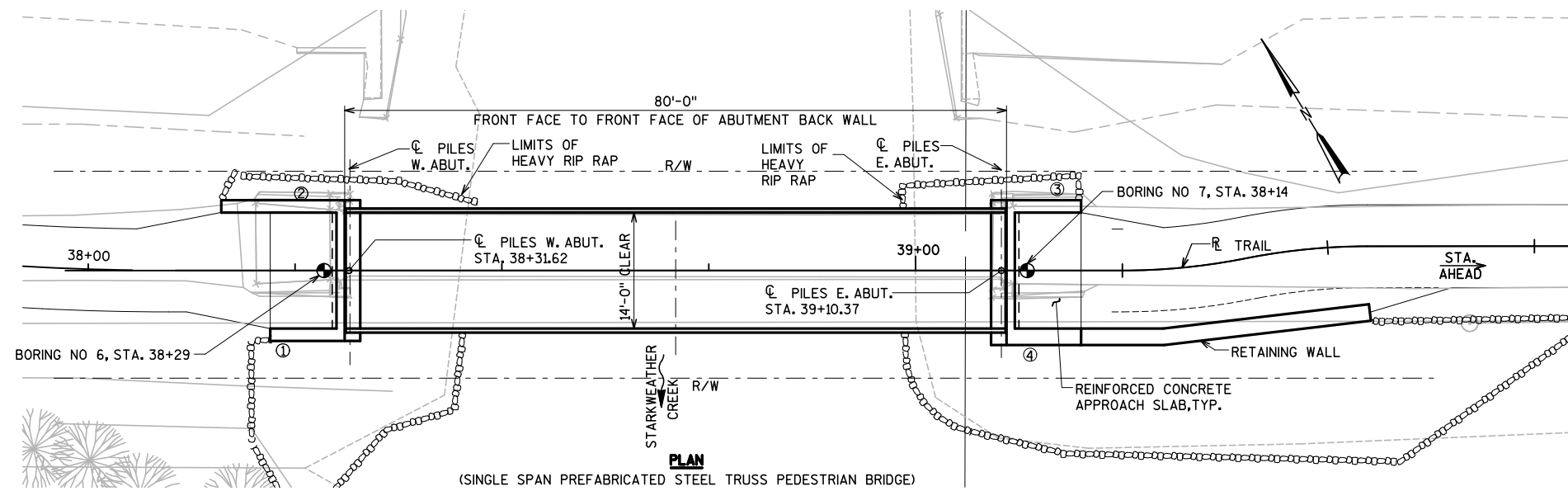
- POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- RAILS AND POSTS TO BE ASTM A500, GRADE B. BASE PLATES AND SHIMS TO BE ASTM A709, GRADE 36. ALL GALVANIZED AFTER FABRICATION.
- ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.
- ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.
- SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.
- CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- POSTS AND PICKETS SHALL BE SET VERTICAL AND RAILS SHALL BE SET PARALLEL TO TOP OF WING WALL.
- ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.
- RAILING IS TO BE GALVANIZED AND PAINTED.
- RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.
- VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.
- ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.
- RAIL POST SPACING IS MEASURED ALONG ϕ RAILING.
- SUBMIT SHOP DRAWINGS FOR ENGINEER'S REVIEW AND FABRICATE RAILING COMPONENTS ONLY AFTER SHOP DRAWINGS ARE APPROVED.

NO.	REVISIONS	DATE

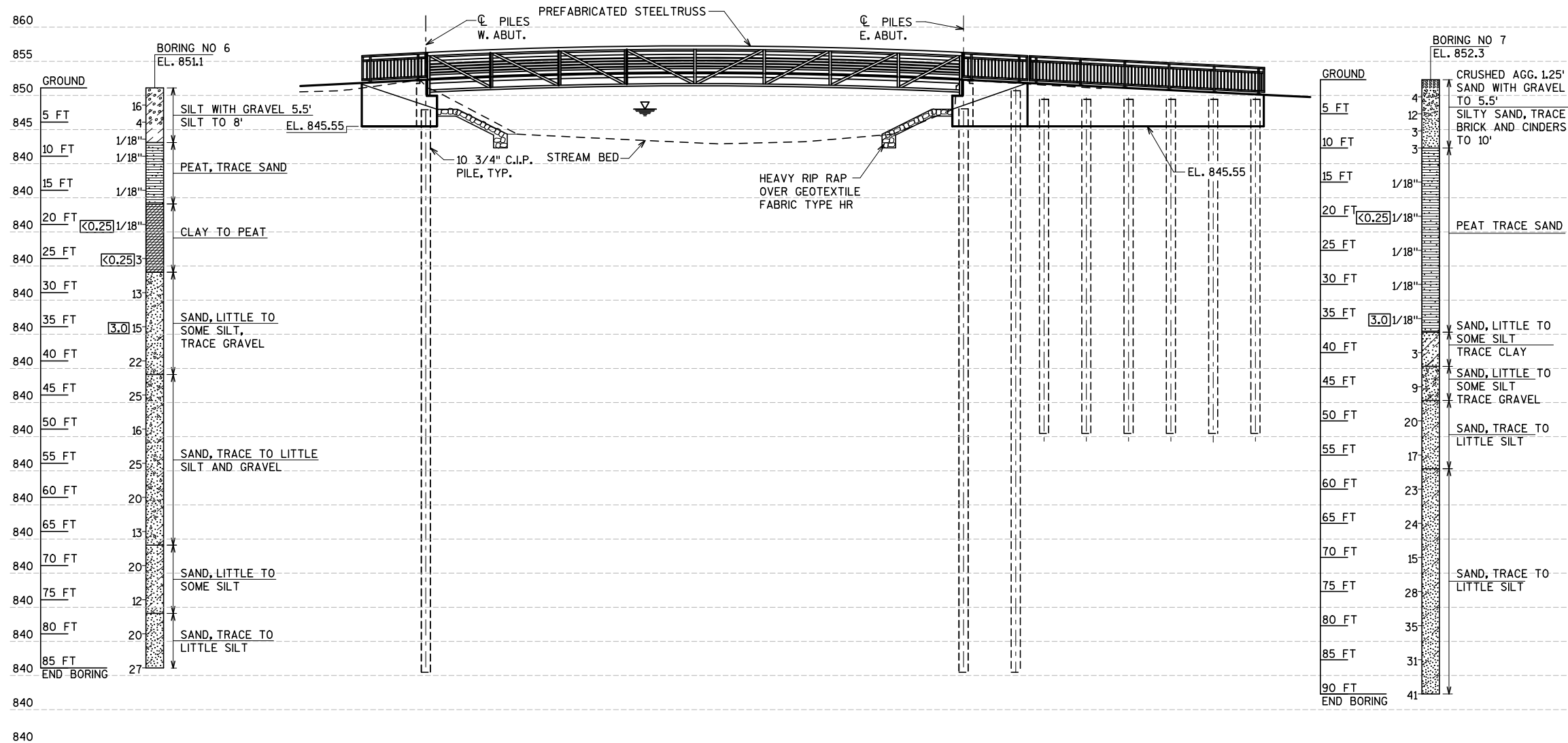
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 Fabrication, Inspection and Agency
 10501 W. Research Drive • Milwaukee, WI 53228
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RAILING DETAILS
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

PROJECT NO. BM6-1034
 SHEET NO. S09



(SINGLE SPAN PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE)



ELEVATION
(LOOKING NORTH)

ABBREVIATIONS

F— FINE	M— MEDIUM	C— COARSE
WS— WEATHERED	SO— SOUND	

MATERIAL SYMBOLS

LEGEND OF PROBING

PROBING NO. STA. ELEVATION

95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

7 AVERAGE BLOWS PER FOOT

REFUSAL 95/6

LEGEND OF BORING

BORING NO. STA. ELEV.

UNCONFINED STRENGTH → 7.7 7

BLOWS PER FT. USING 140# WT. FALLING 30"

WASH SAMPLE

SHELBY TUBE — S.T.

GROUND WATER ELEVATION

NO GROUND WATER OBSERVED ABOVE THIS ELEVATION

SANDY GRAVEL

F. BOULDERS OR COBBLES

SAND

SILTY CLAY

SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

SUBSURFACE INFORMATION PRESENTED ON THIS SHEET IS OBTAINED FROM THE GEOTECHNICAL REPORT PREPARED BY CGC, INC. DATED APRIL 23, 2014. SOIL BORING WERE PERFORMED BY CGC, INC. ON DECEMBER 19th, 27th, & 30th 2013.

DATE	NO.	REVISIONS
DESIGNED BY:	BDT	
DRAWN BY:	TAL	
CHECKED BY:	TAZ	
APPROVED BY:		
DATE:		
PHASE:		

GRAPHIC SCALE

SCALE OF DRAWING

PER STANDARD INCH

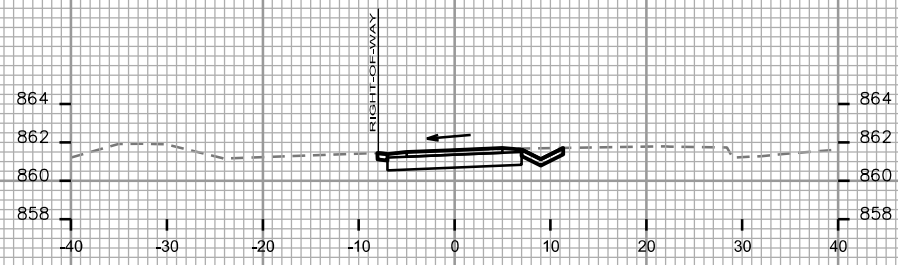
BLOOM COMPANIES, LLC
 Affiliated with the American Society of Civil Engineers
 10501 W. Research Drive • Milwaukee, WI 53228
 Phone: (414) 771-3390 Fax: (414) 771-4490

SUBSURFACE EXPLORATION
 CAPITAL CITY TRAIL BRIDGE
 CITY OF MADISON

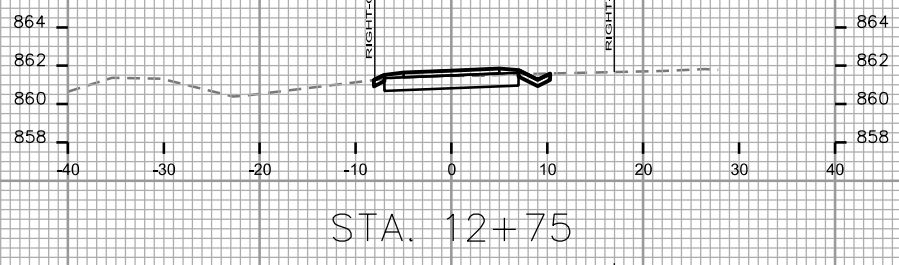
PROJECT NO. BM6-1034
SHEET NO. S10

CROSS SECTIONS

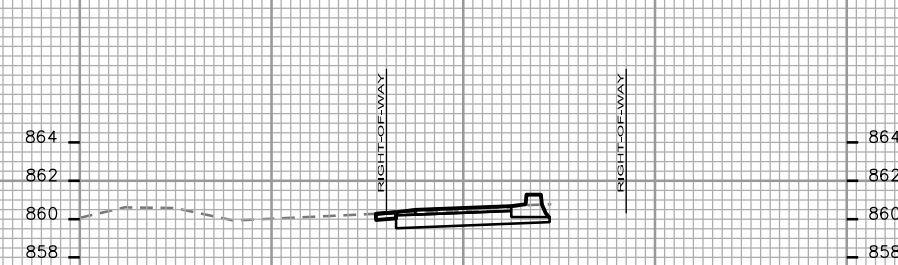
PATH CITY OF MADISON



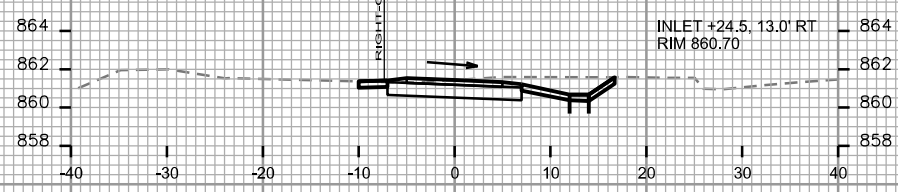
STA. 11+50



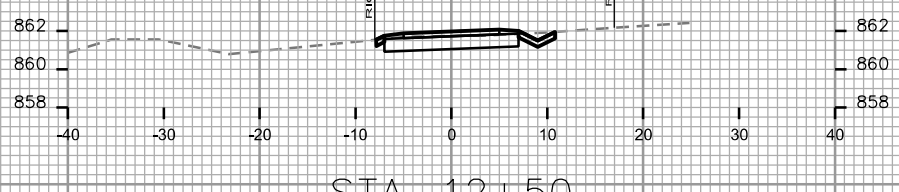
STA. 12+75



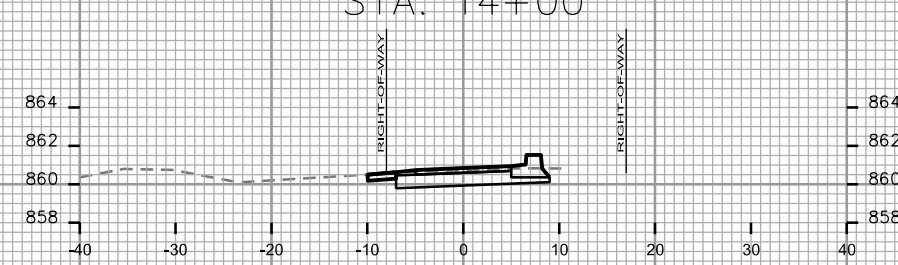
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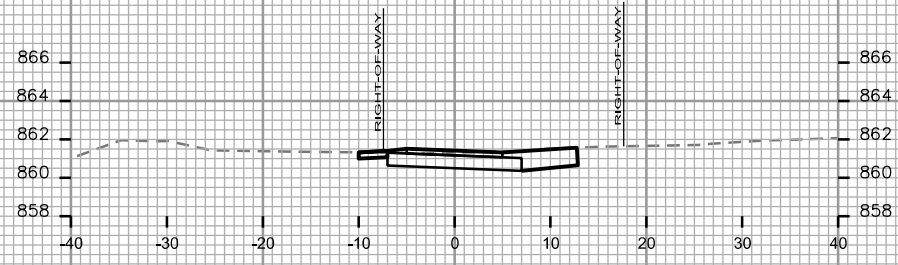
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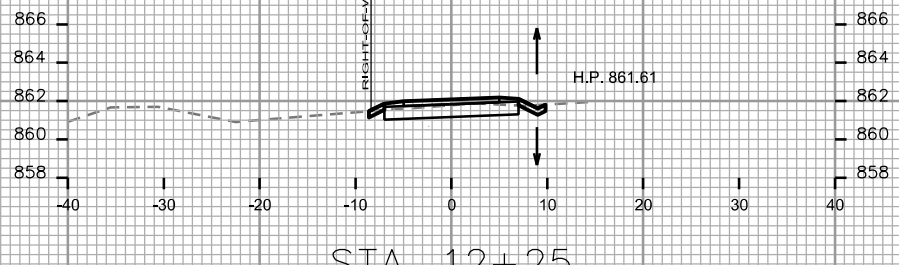
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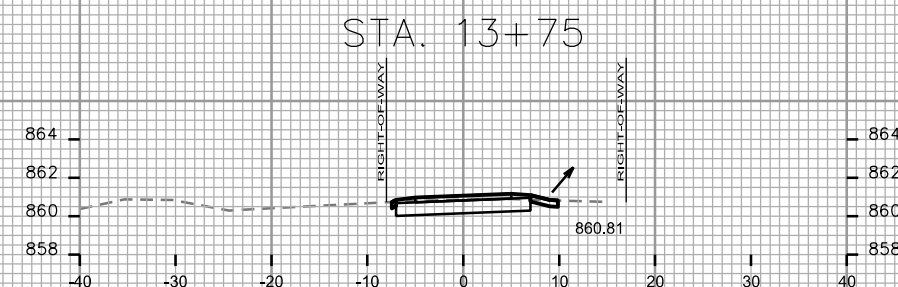
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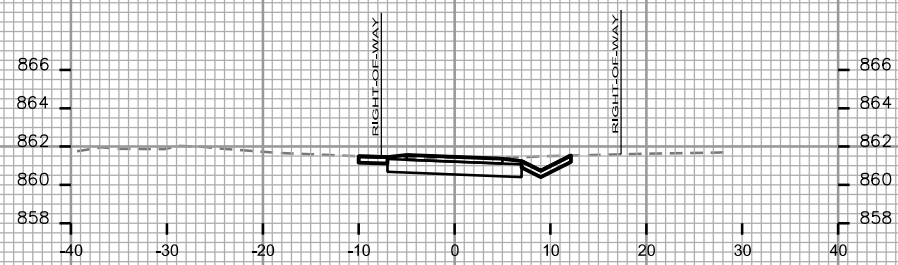
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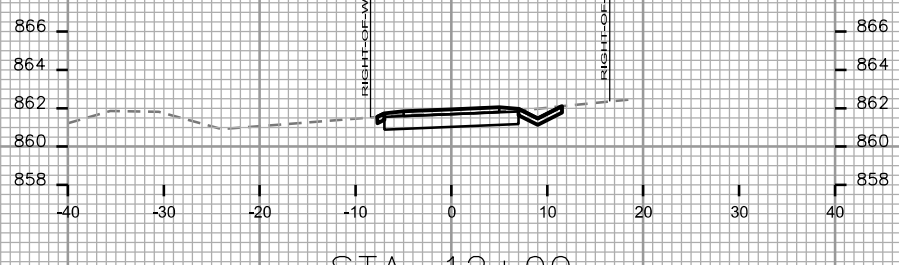
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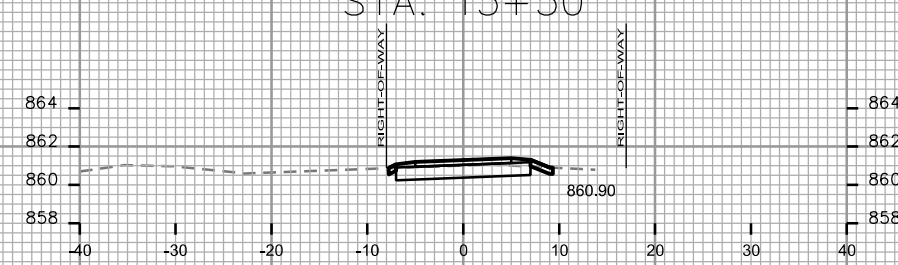
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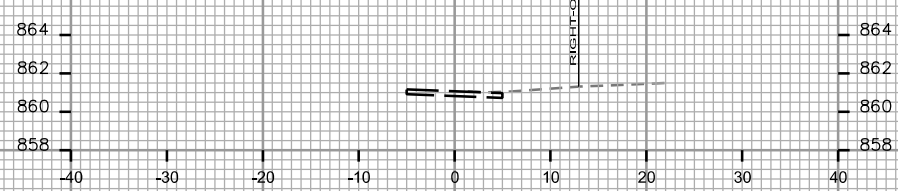
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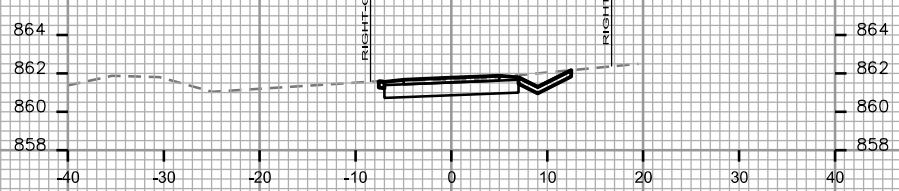
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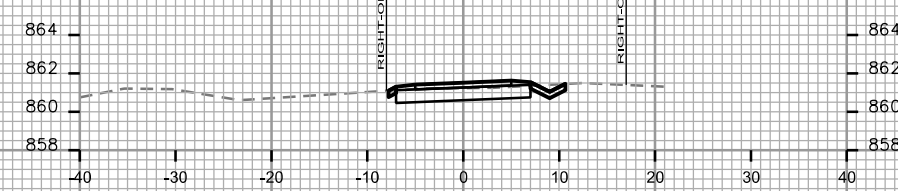
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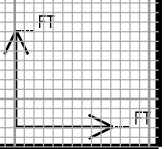
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STA. 11+75



STA. 13+00



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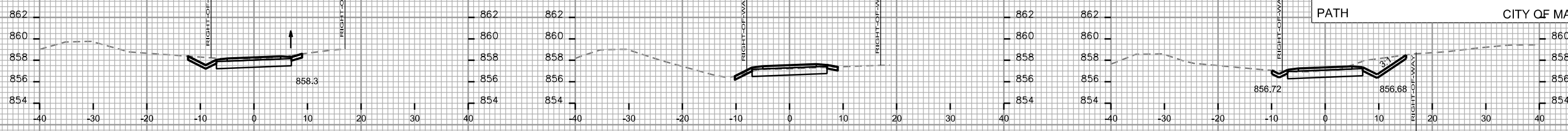
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

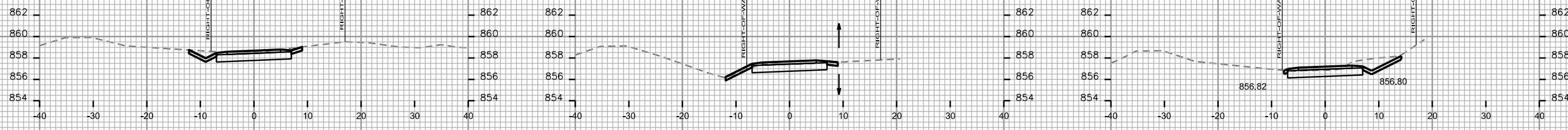
PATH CITY OF MADISON



STA. 15+25

STA. 16+50

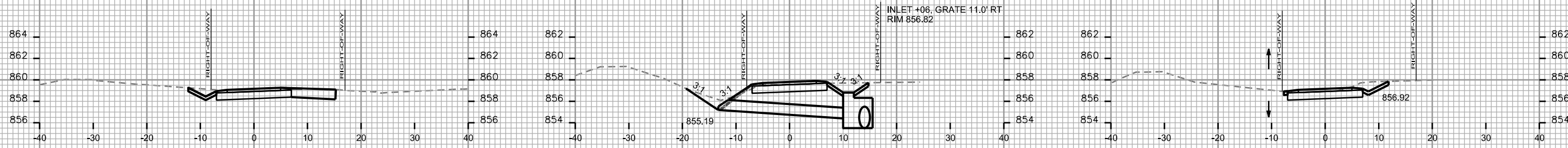
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STA. 15+00

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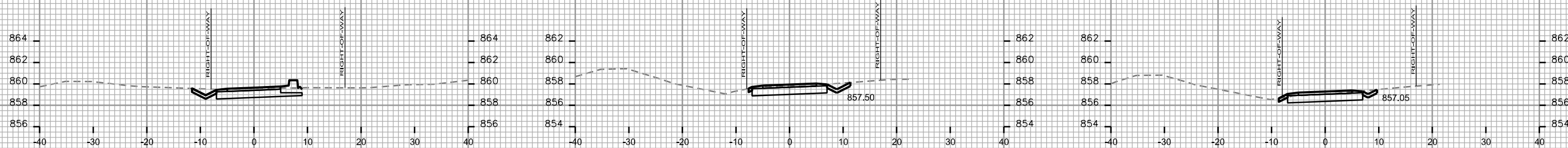
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STA. 14+75

STA. 16+00

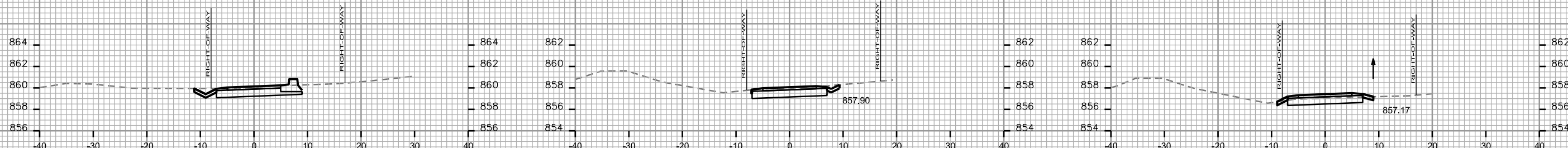
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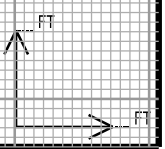
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STA. 14+25

STA. 15+50

STA. 16+75



PLOT SCALE: _____

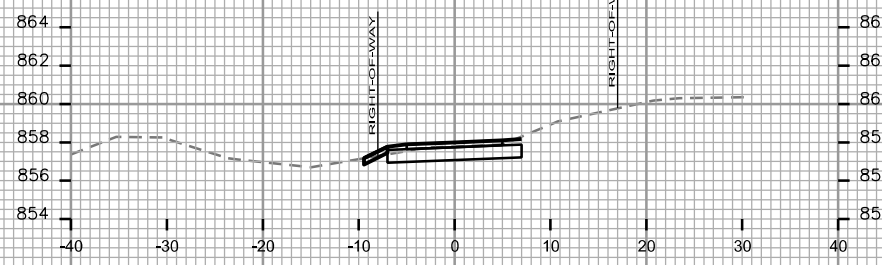
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REV. DATE: _____

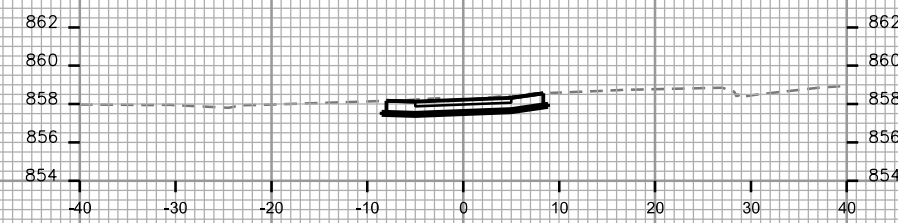
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

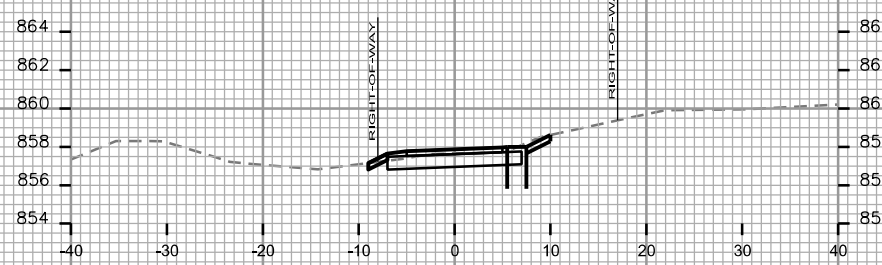
PATH CITY OF MADISON



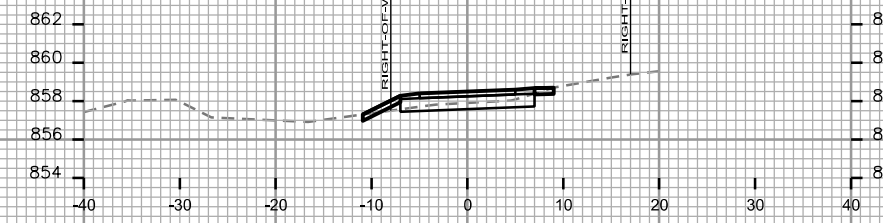
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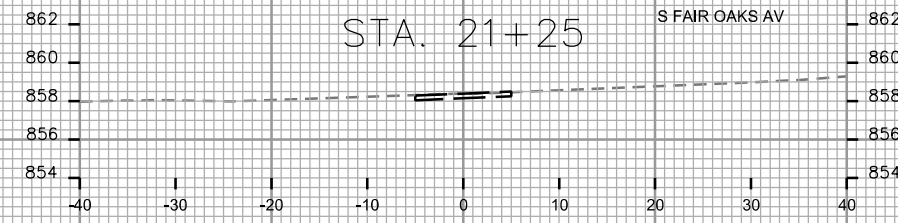
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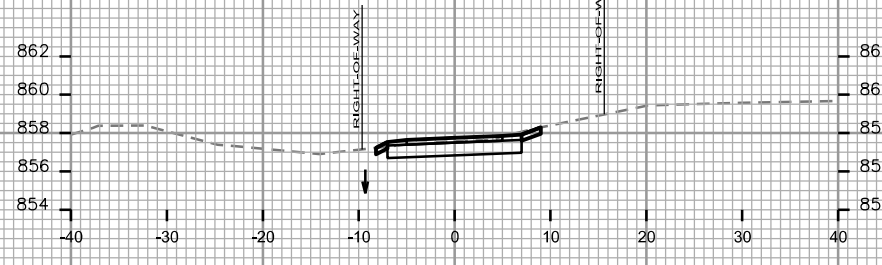
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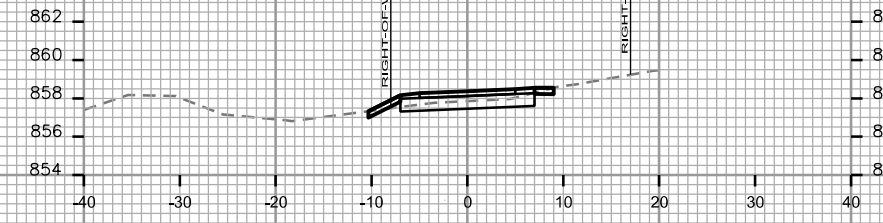
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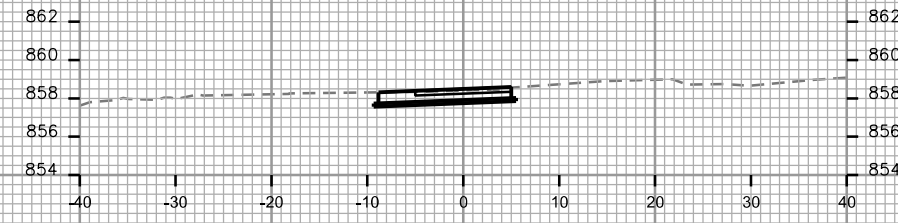
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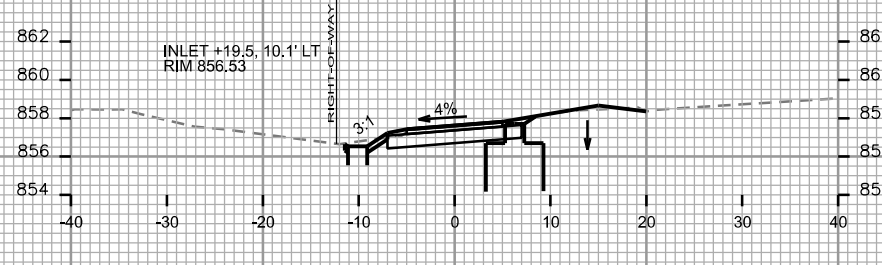
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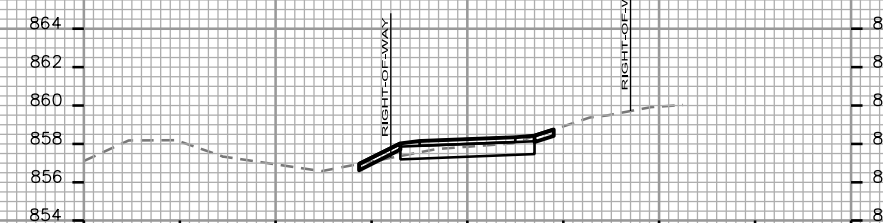
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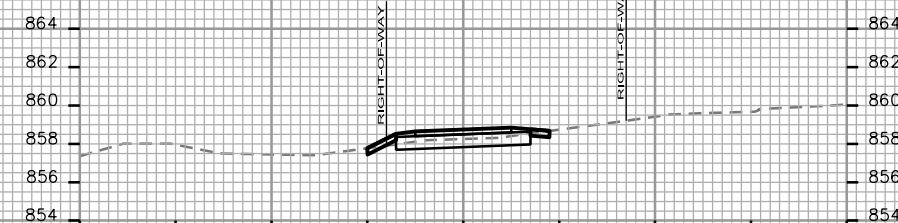
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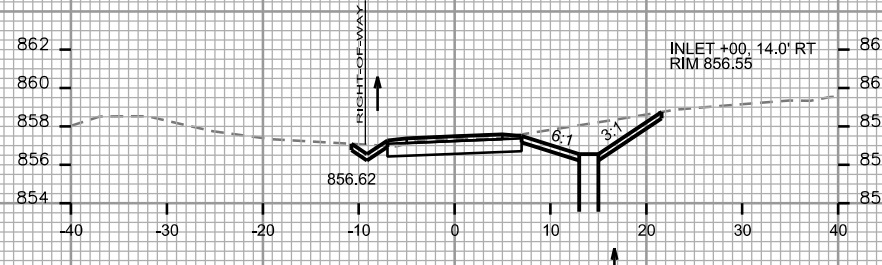
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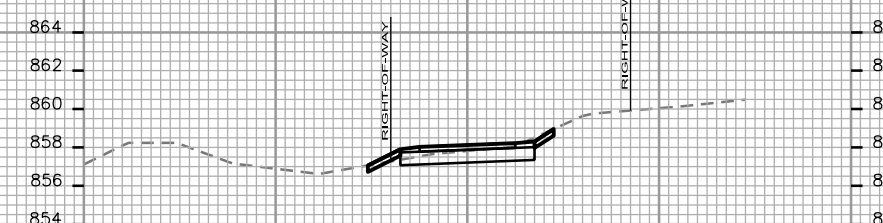
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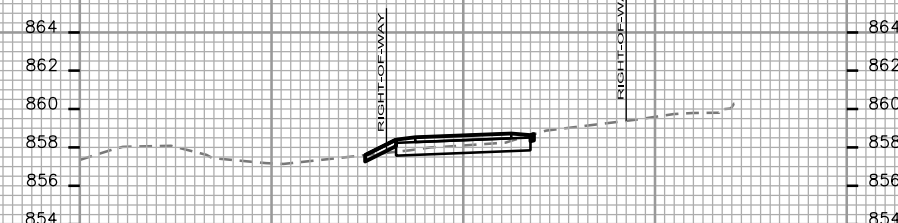
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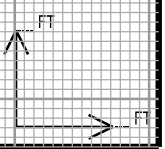
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STA. 19+25



STA. 20+25



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

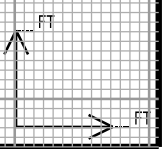
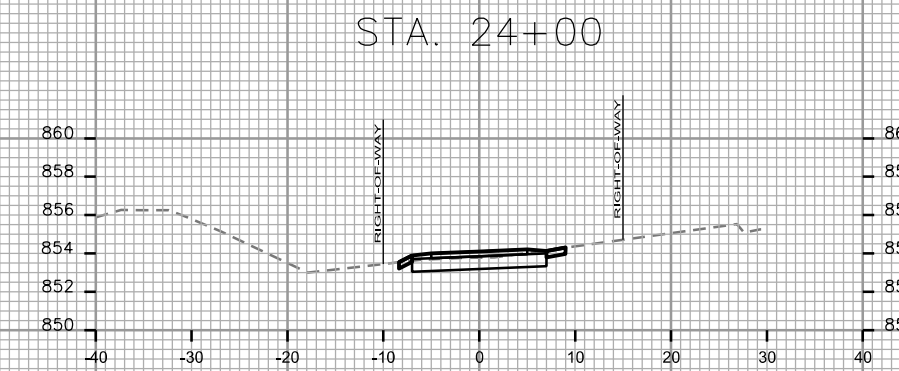
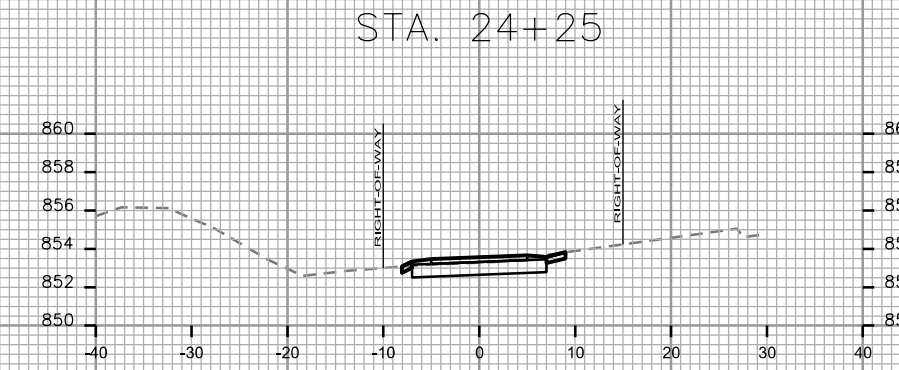
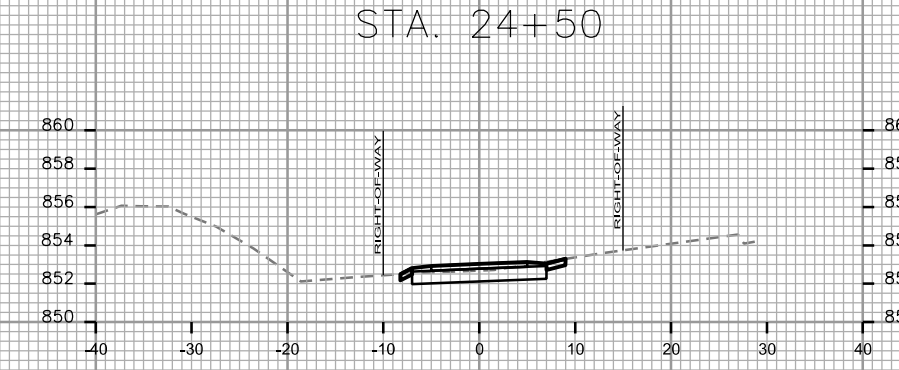
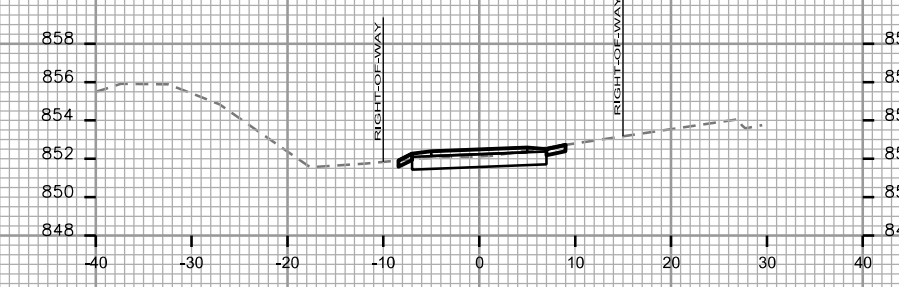
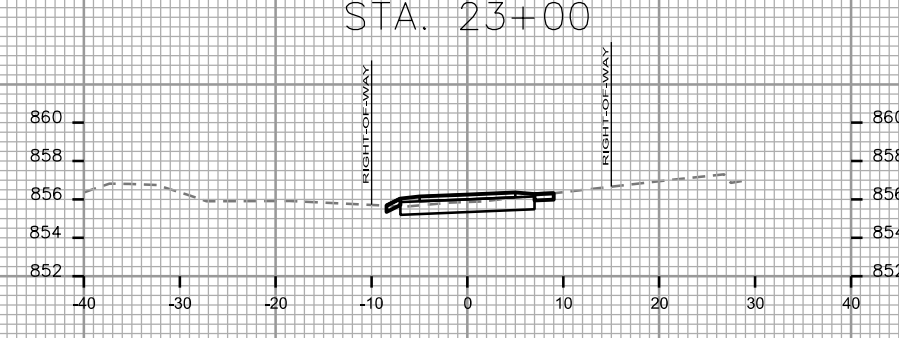
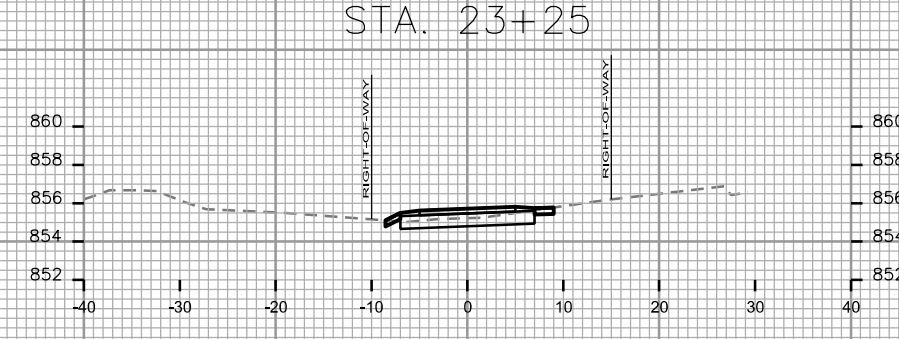
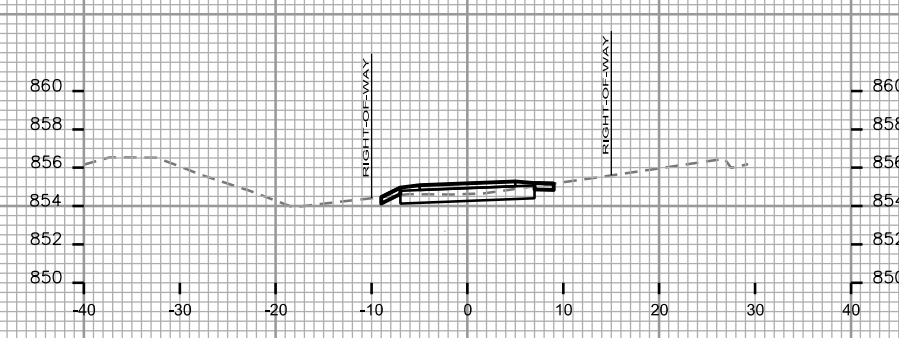
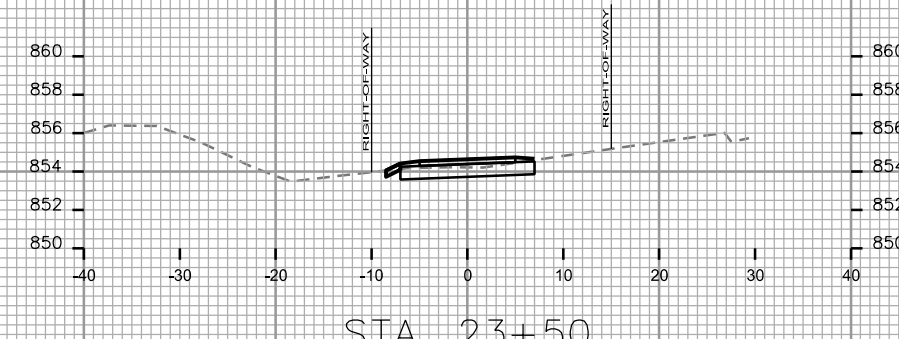
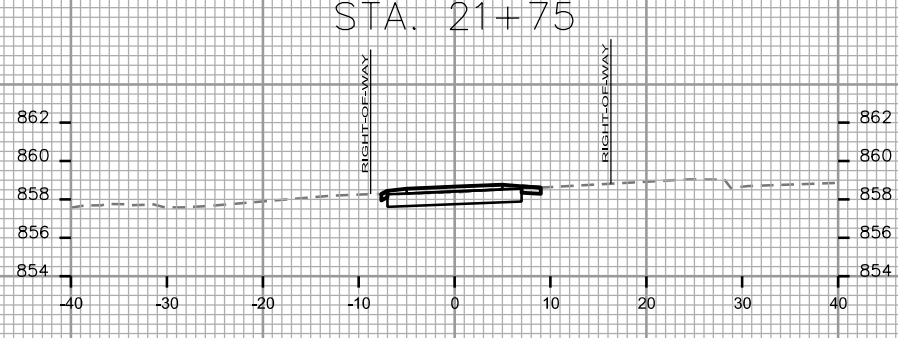
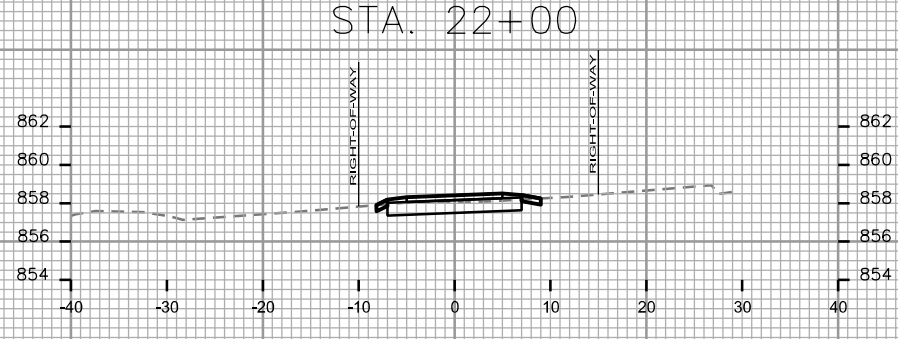
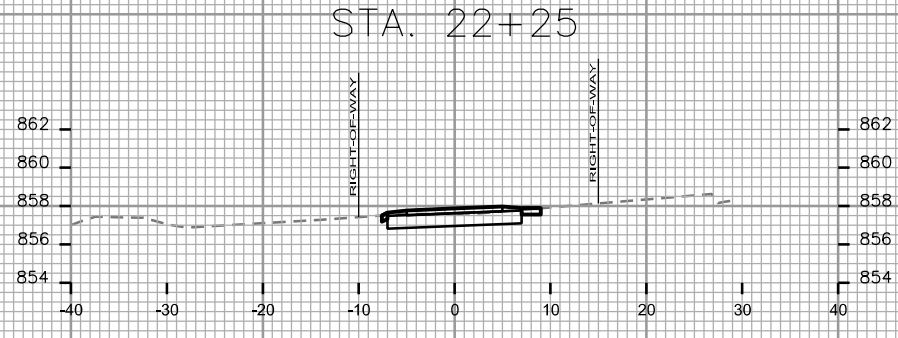
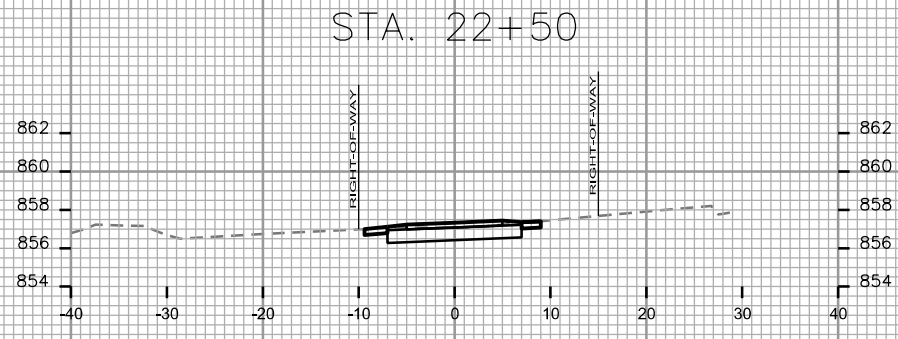
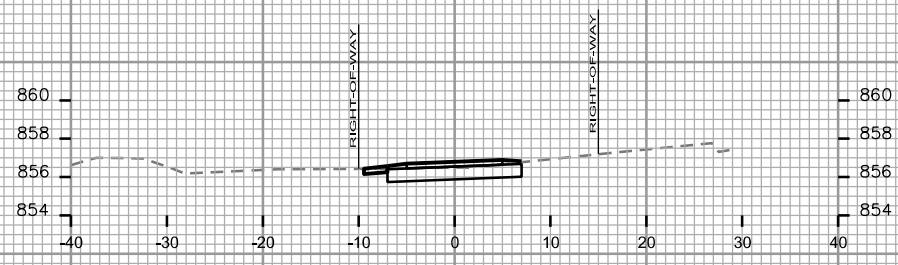
PATH CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

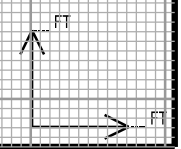
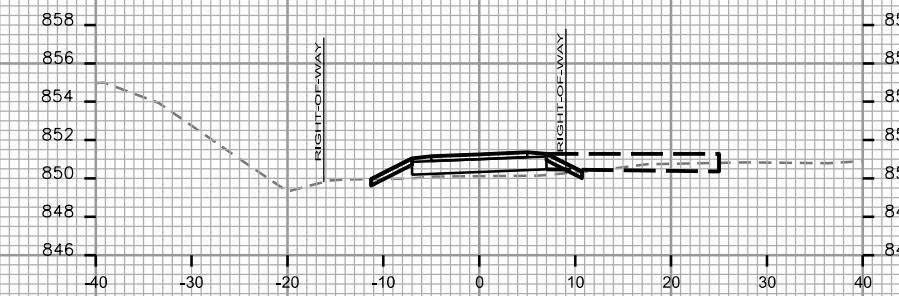
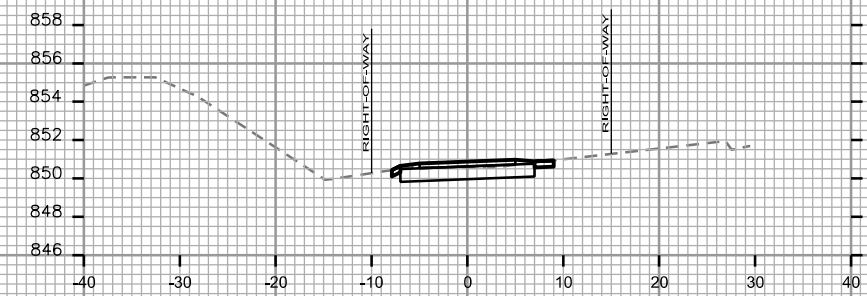
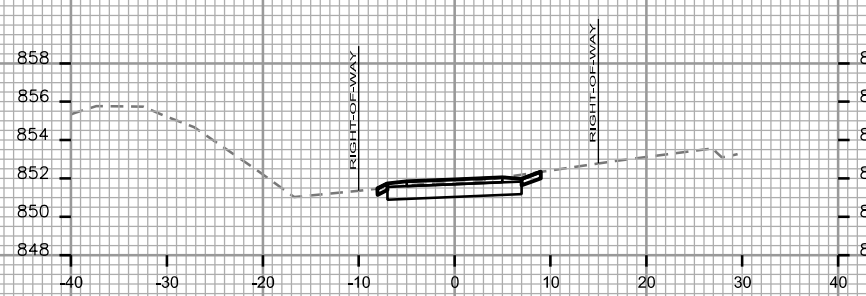
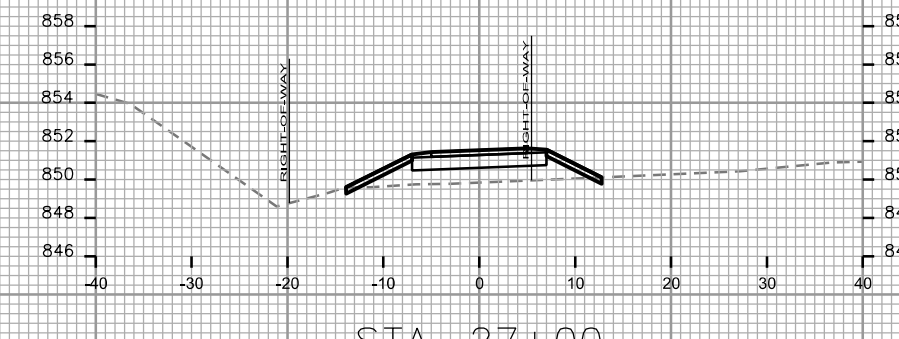
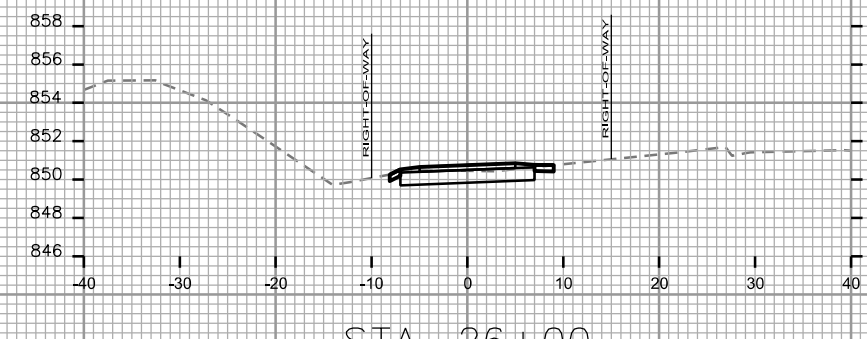
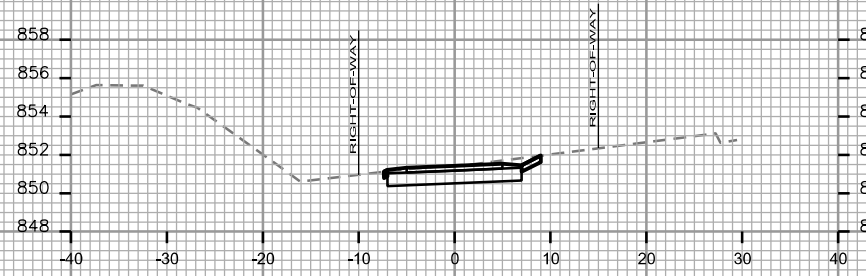
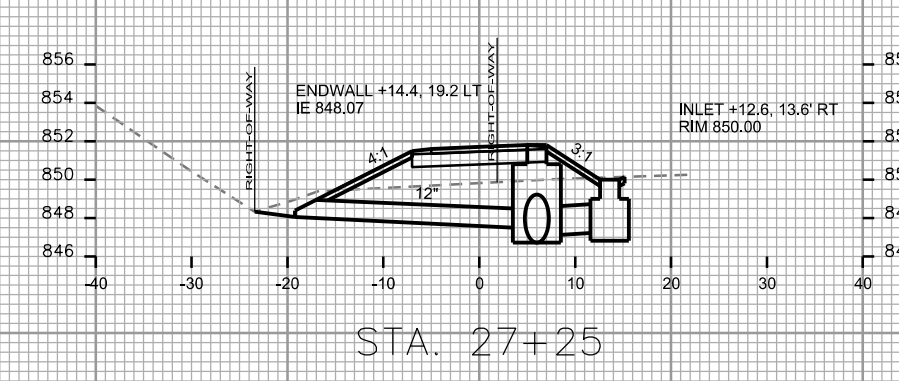
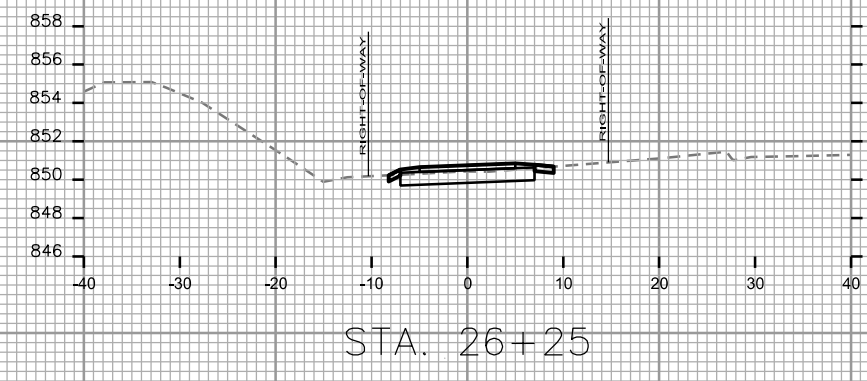
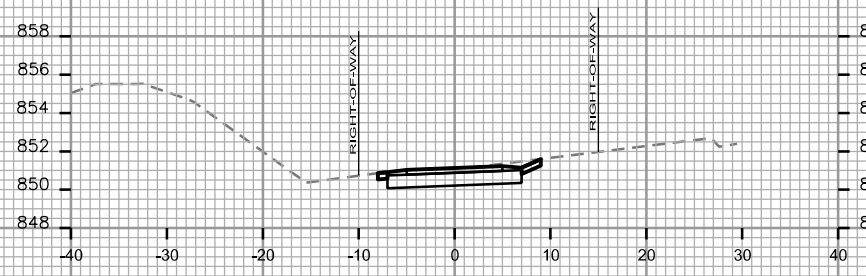
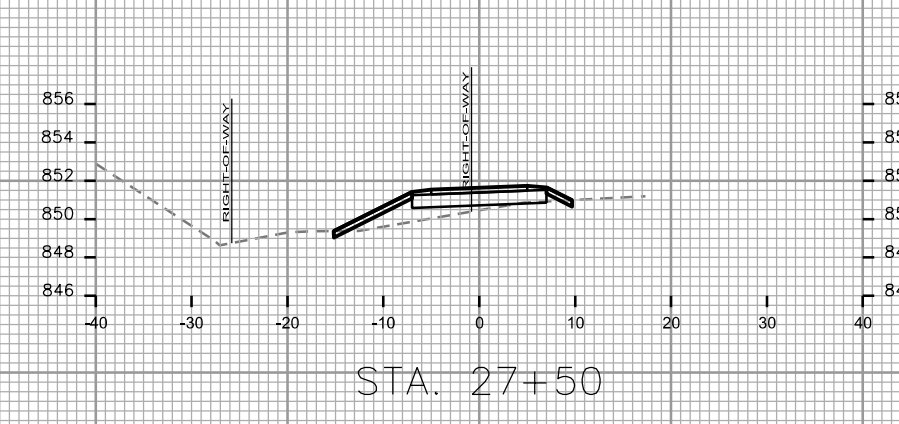
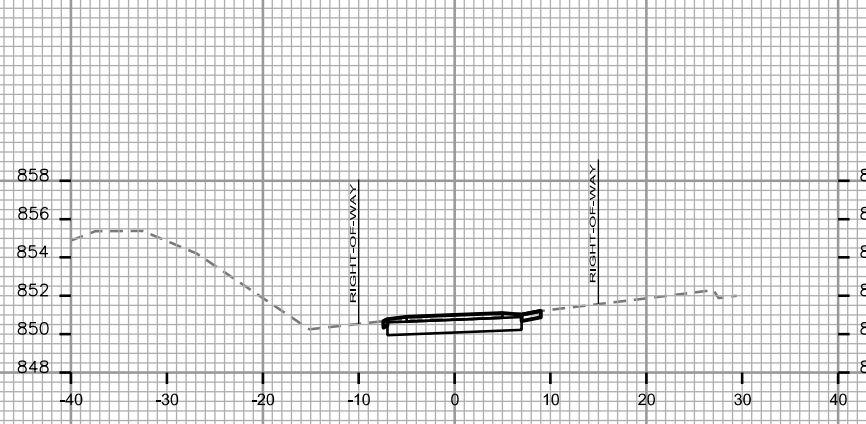
PATH CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

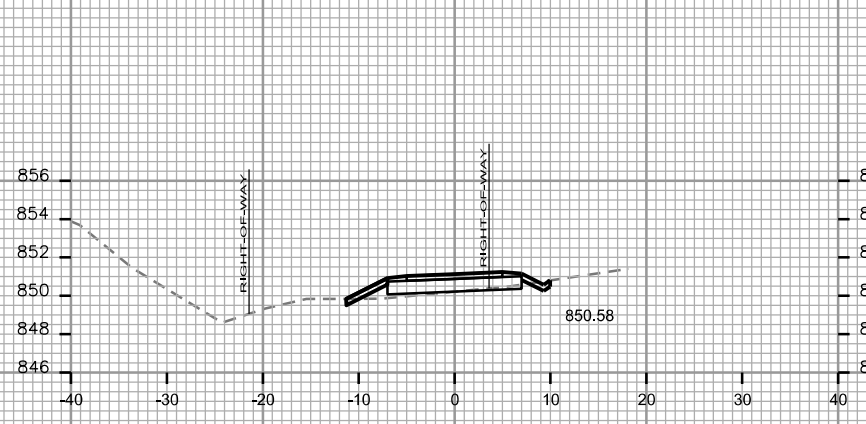
PATH CITY OF MADISON

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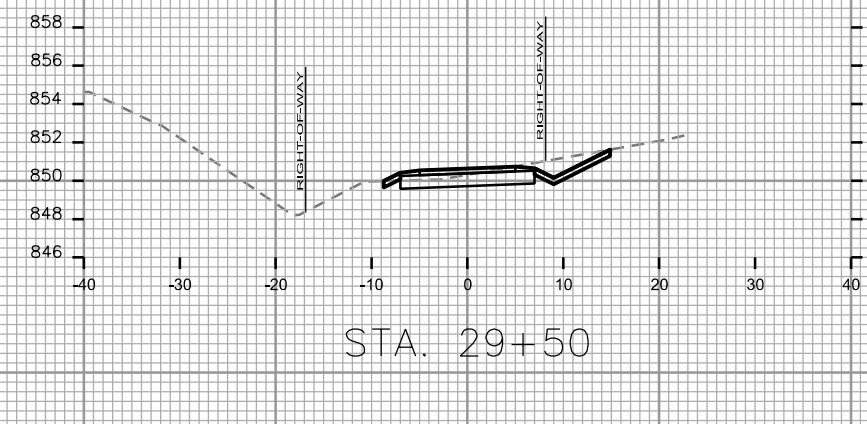
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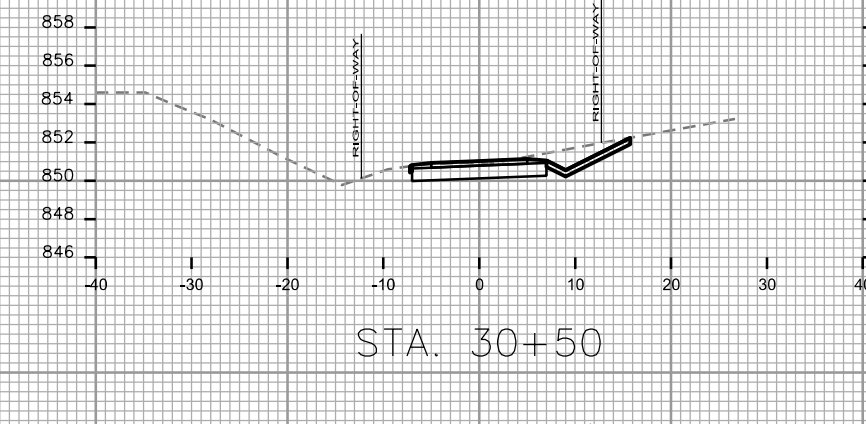
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



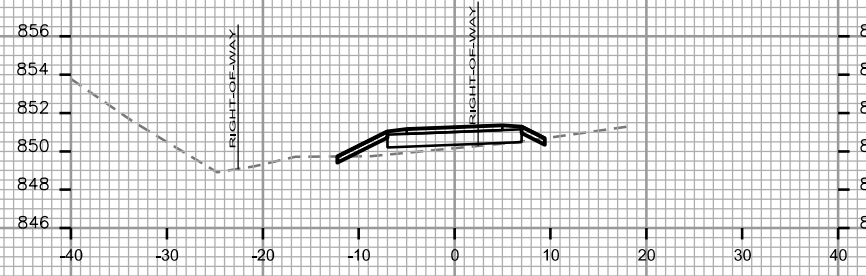
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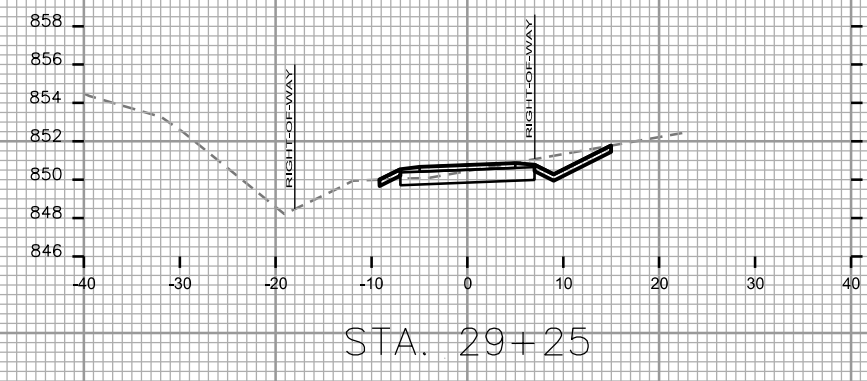
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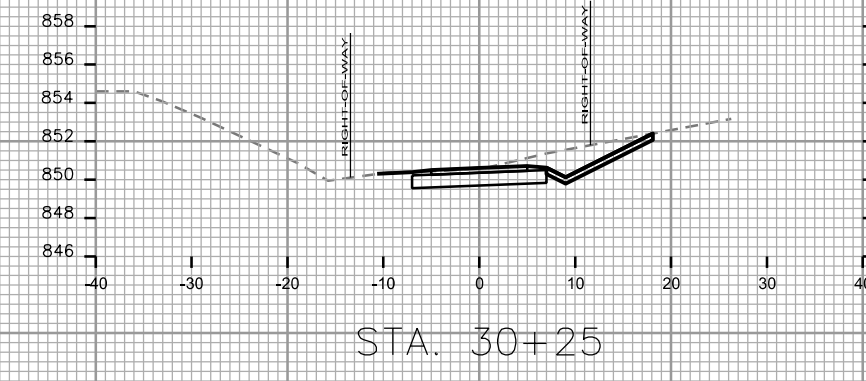
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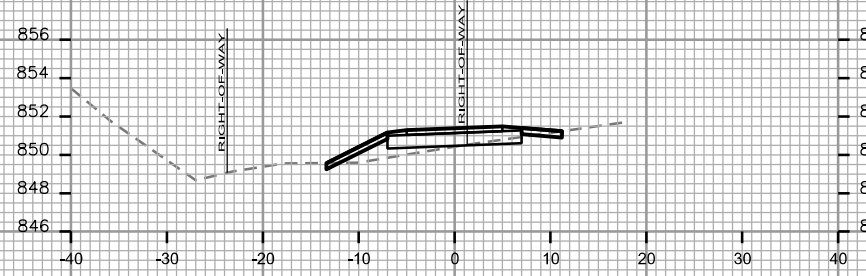
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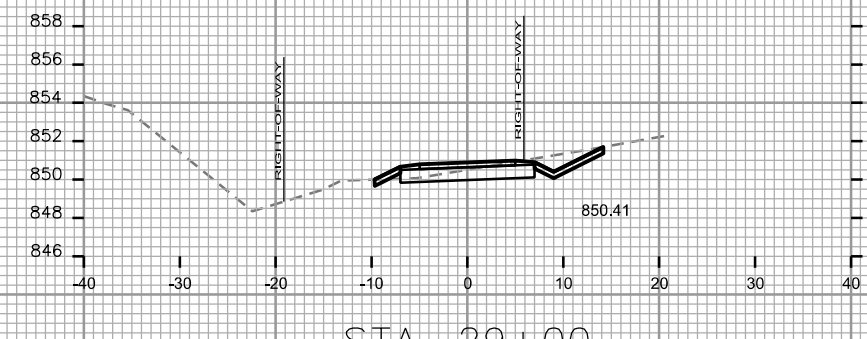
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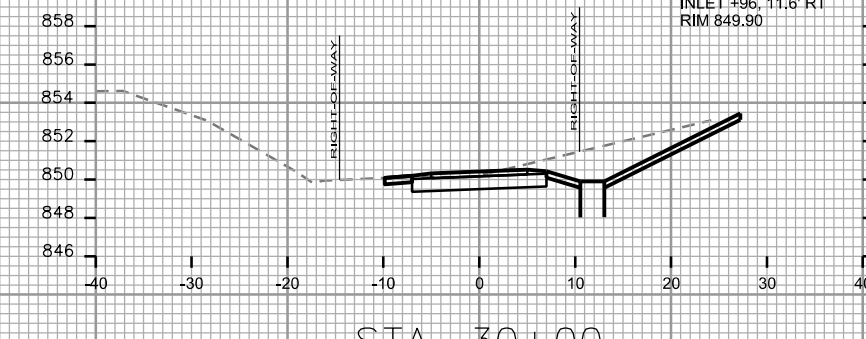
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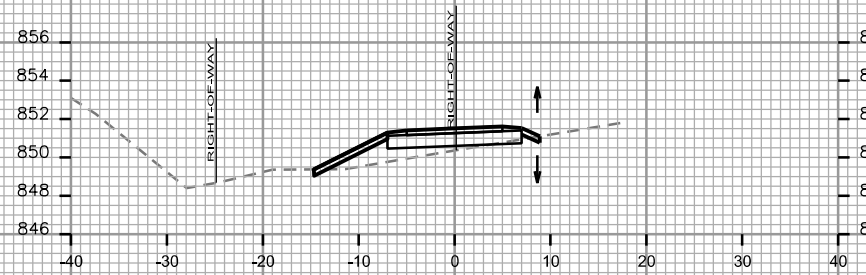
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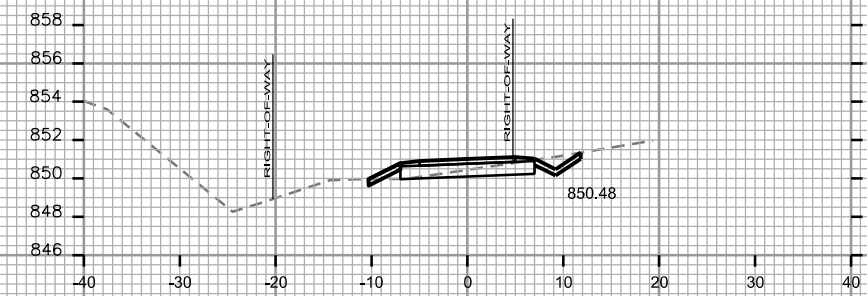
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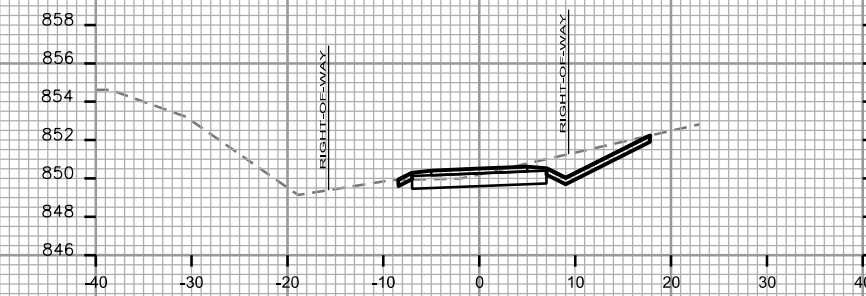
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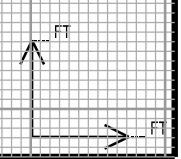
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STA. 28+75



STA. 29+75



CROSS SECTIONS

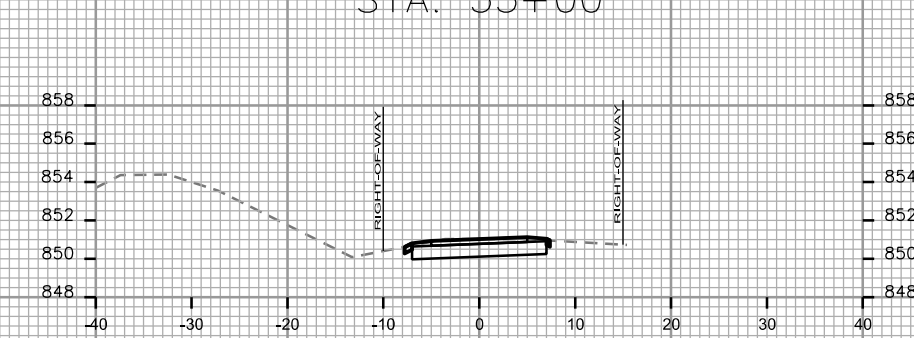
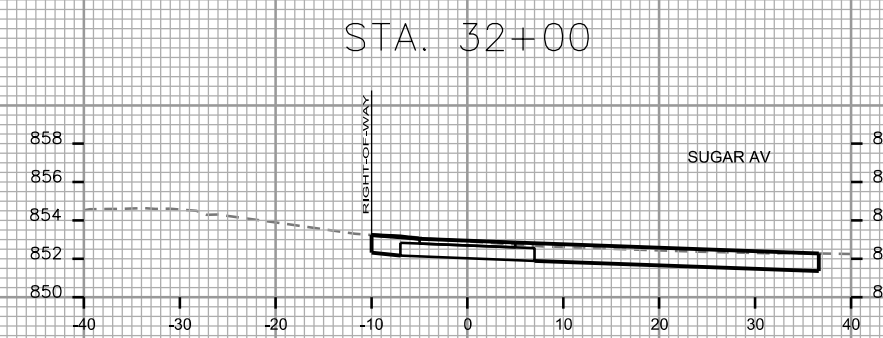
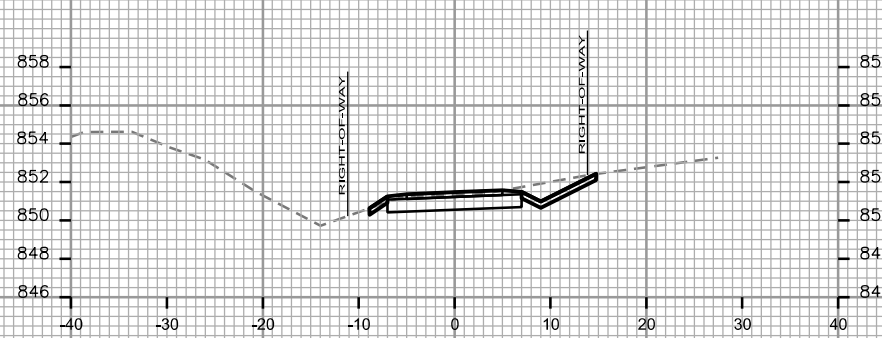
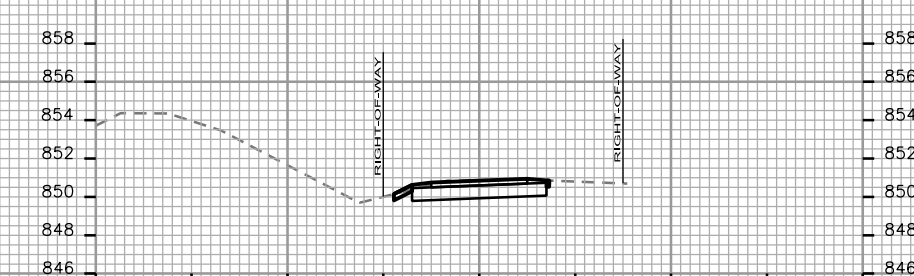
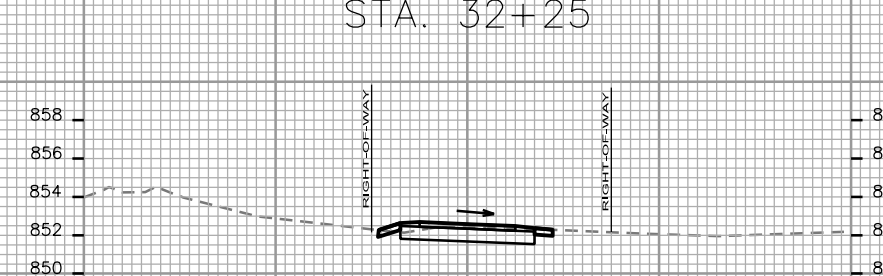
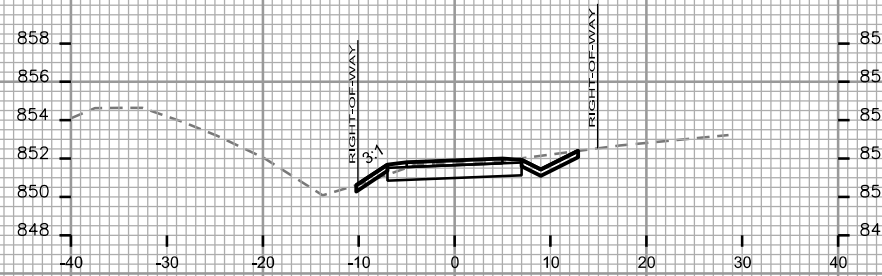
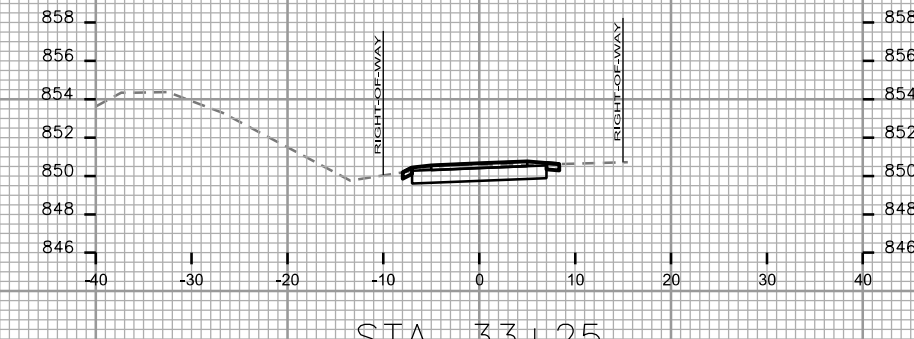
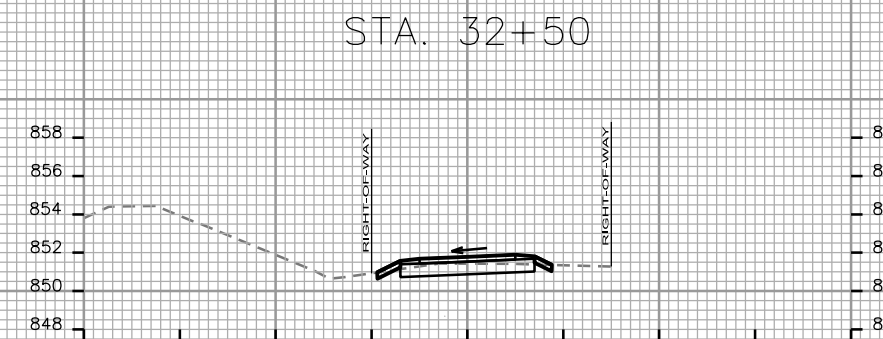
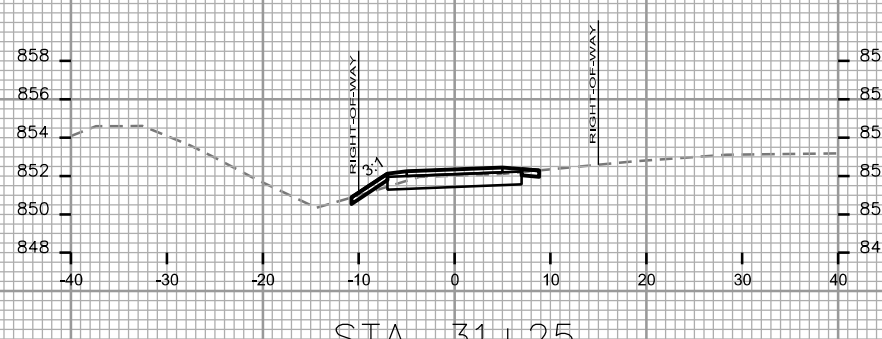
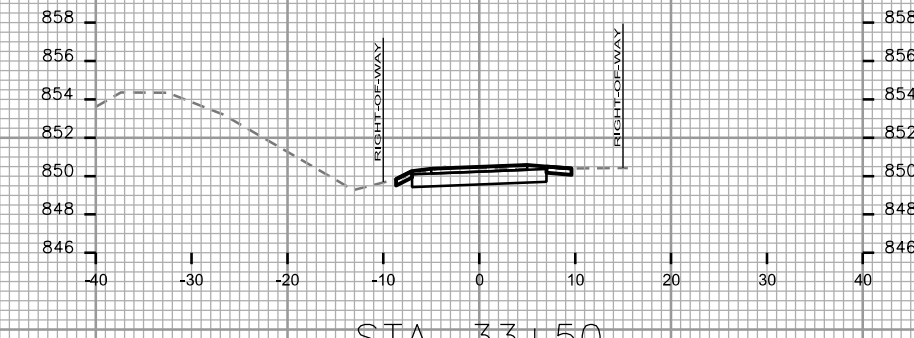
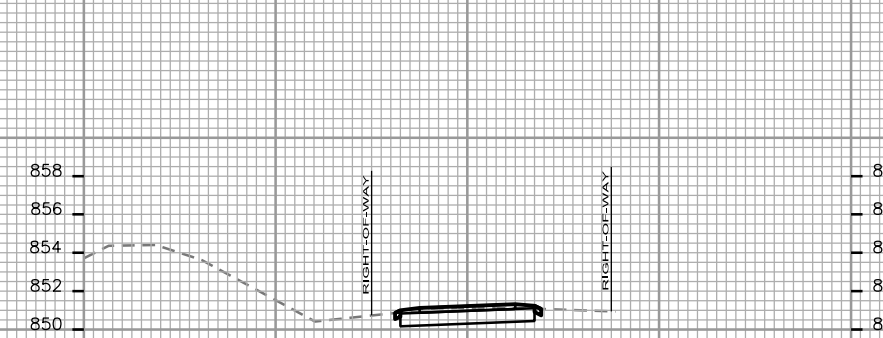
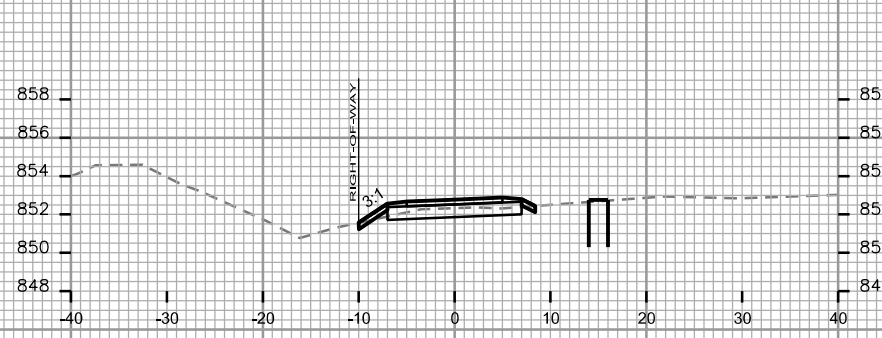
PATH CITY OF MADISON

PLOT SCALE: _____

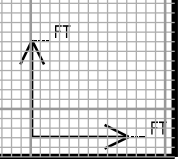
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SUGAR AV



CROSS SECTIONS

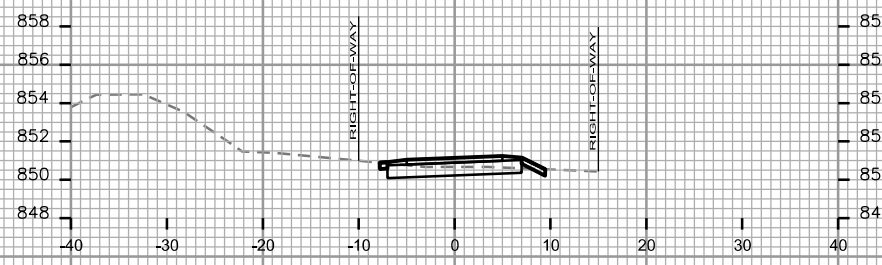
PATH CITY OF MADISON

PLOT SCALE: _____

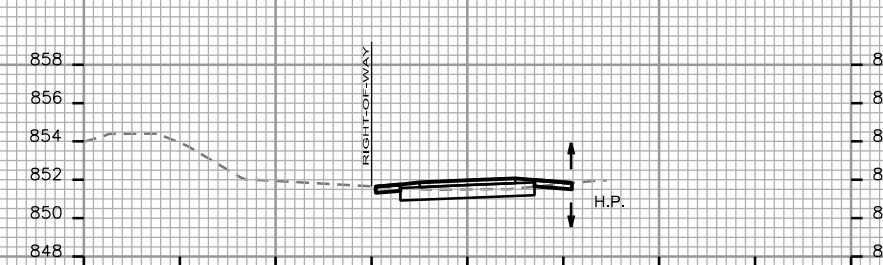
PLOT NAME: _____

REV. DATE: _____

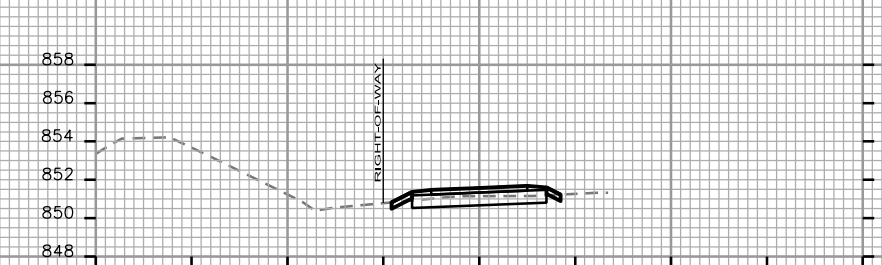
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



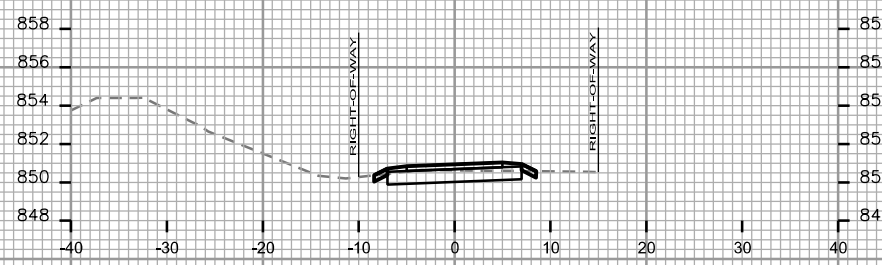
STA. 34+50



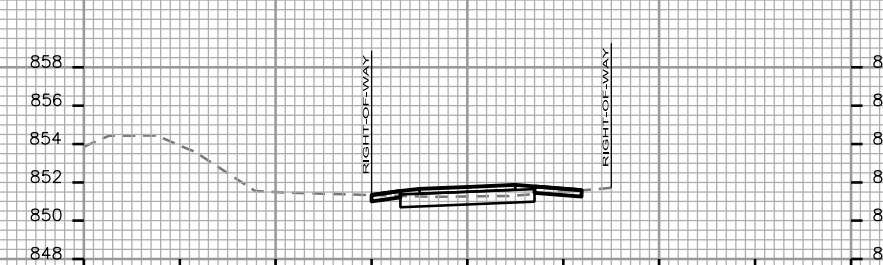
STA. 35+50



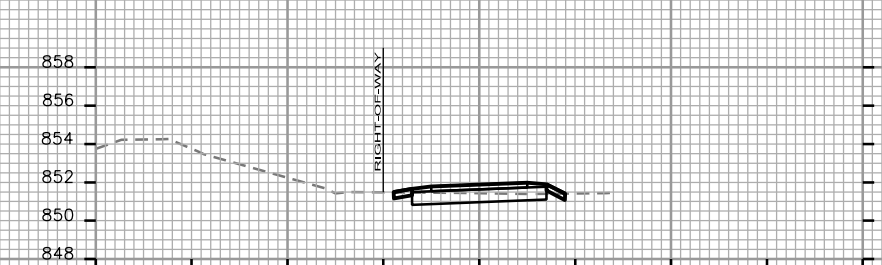
STA. 36+50



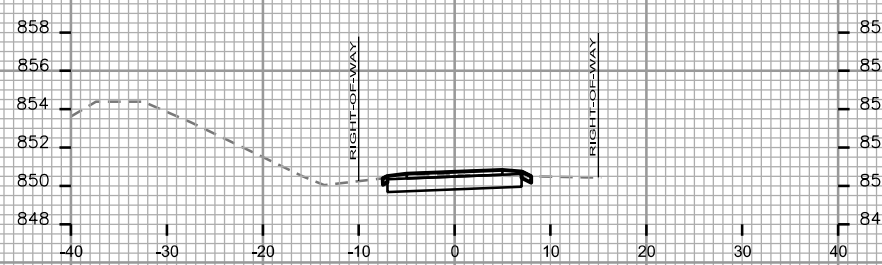
STA. 34+25



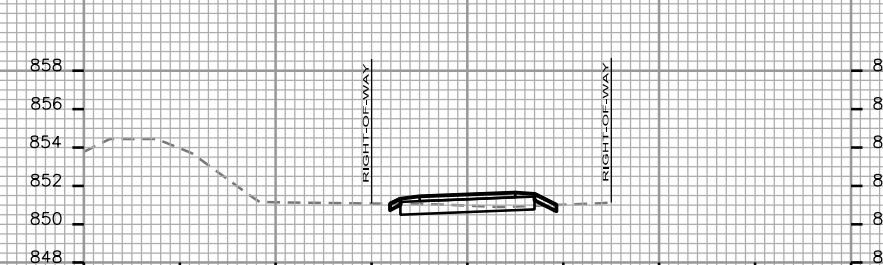
STA. 35+25



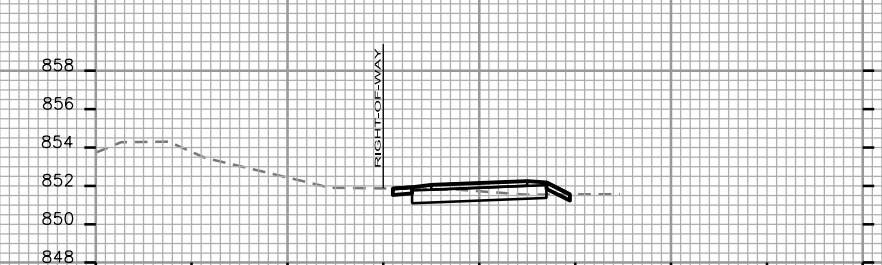
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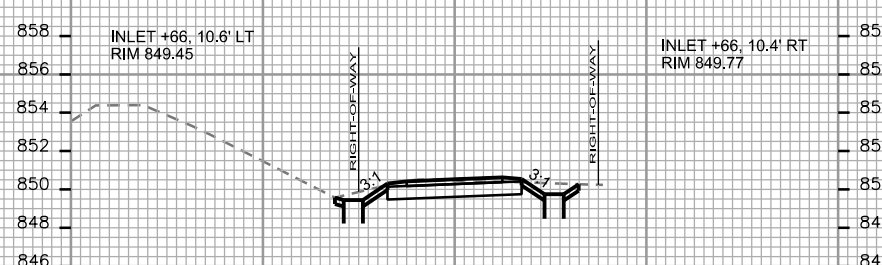
STA. 34+00



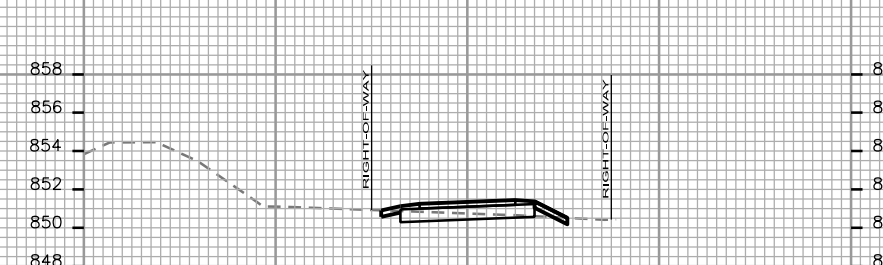
STA. 35+00



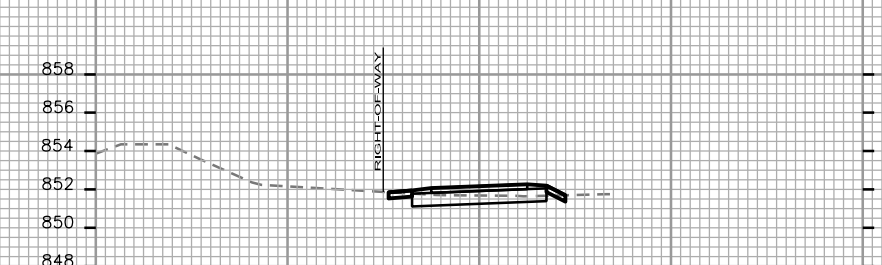
STA. 36+00



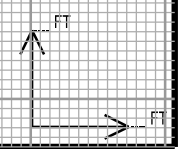
STA. 33+75



STA. 34+75



STA. 35+75



CROSS SECTIONS

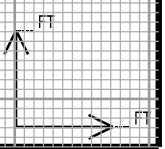
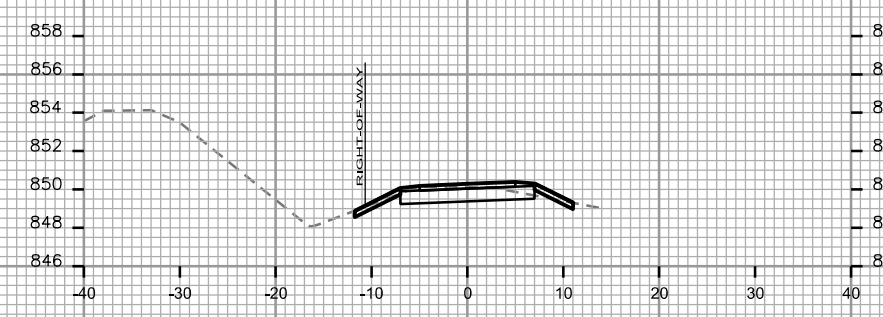
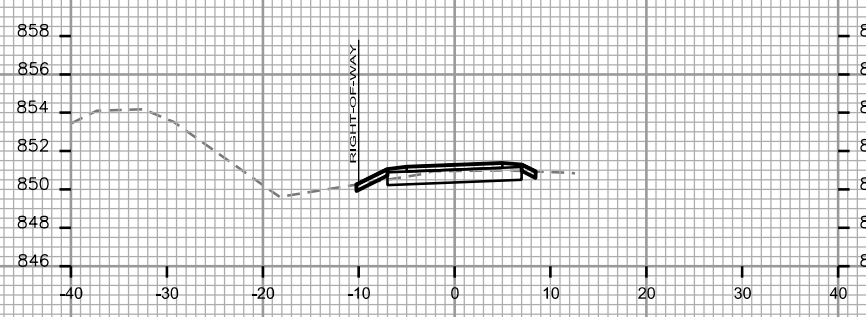
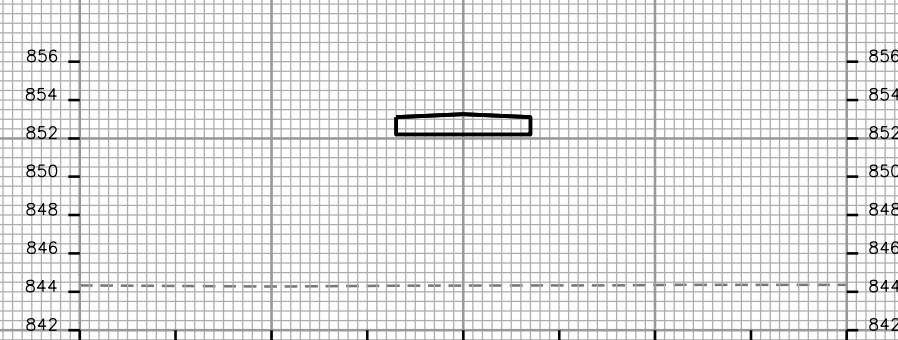
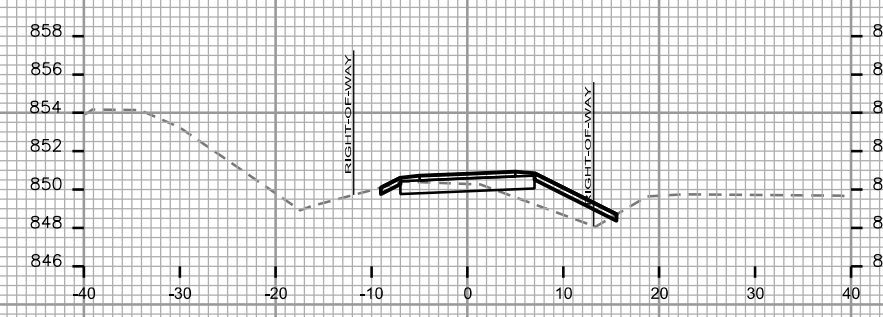
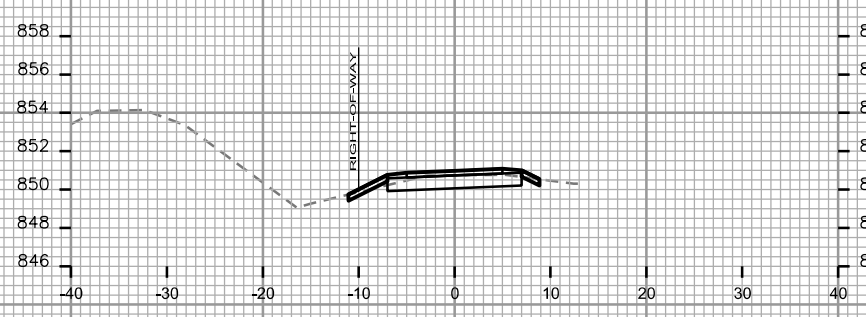
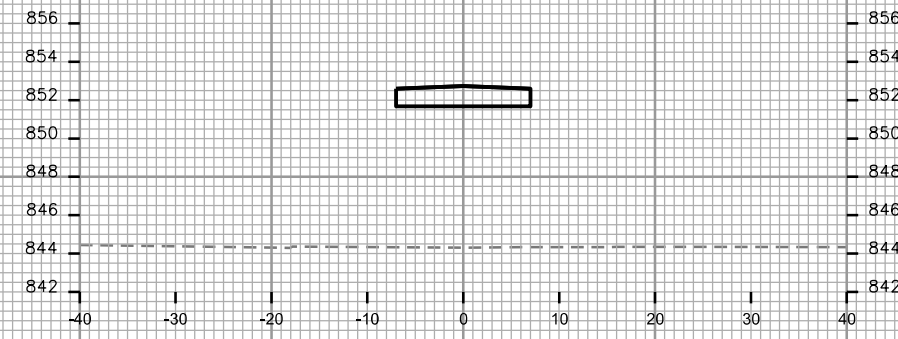
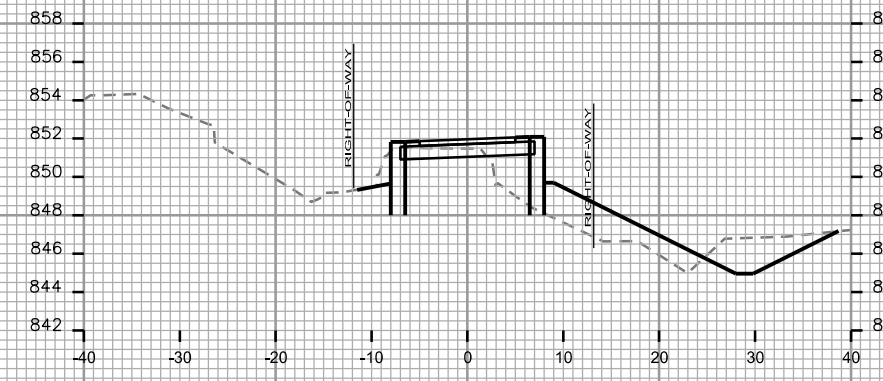
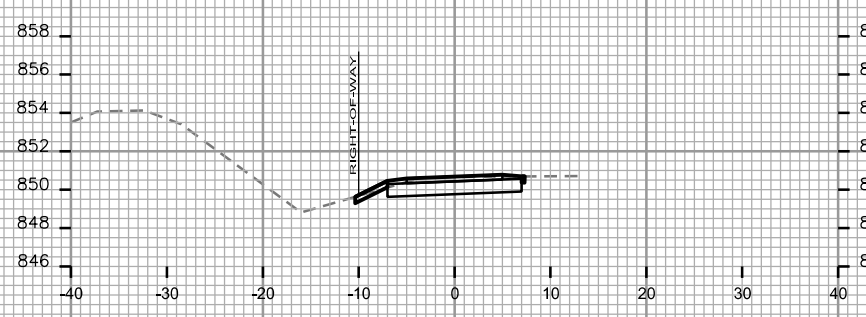
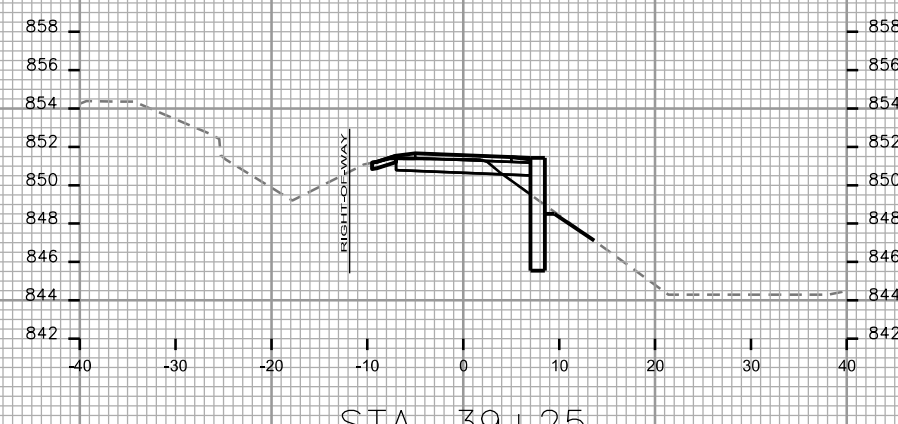
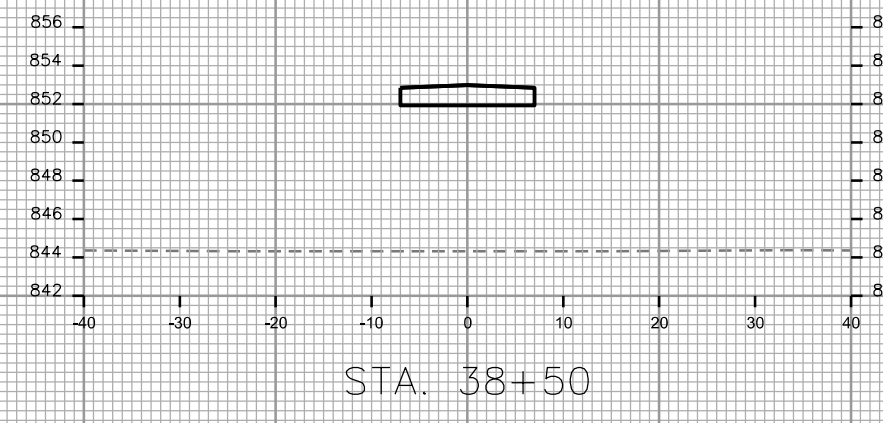
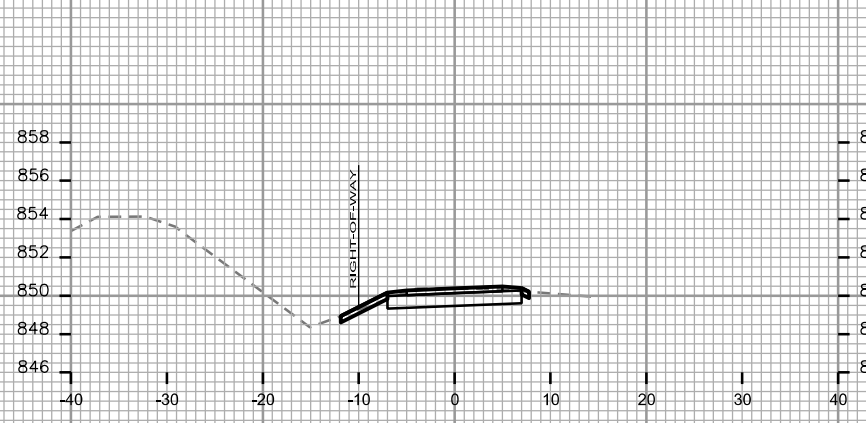
PATH CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

PATH

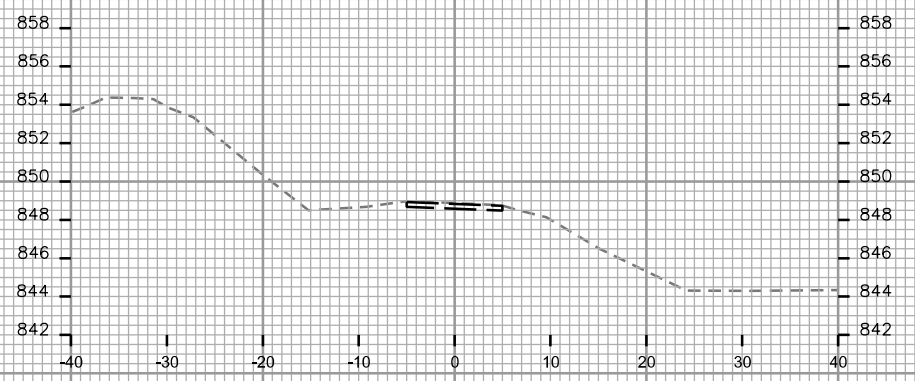
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

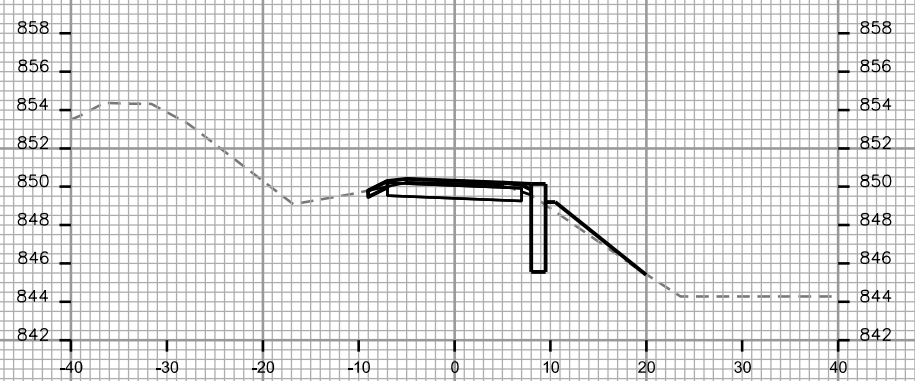
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



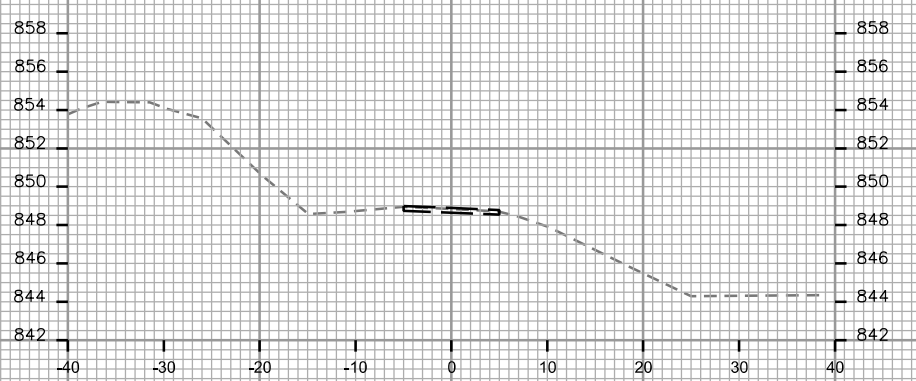
STA. 40+00



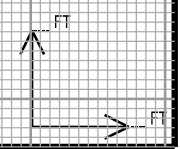
STA. 39+75



STA. 39+50



STA. 40+25



CROSS SECTIONS

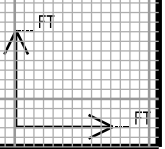
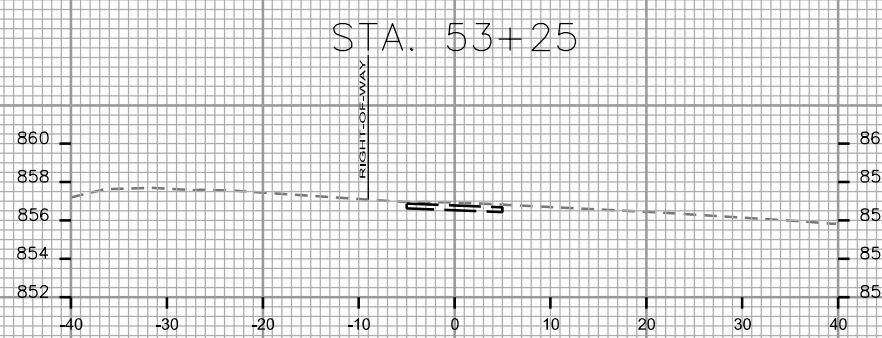
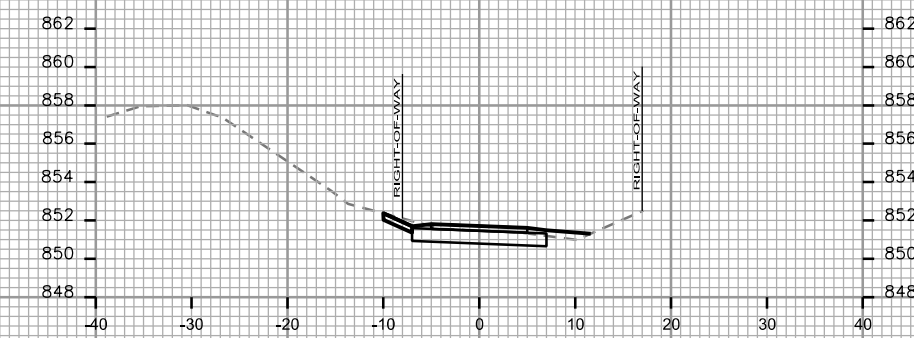
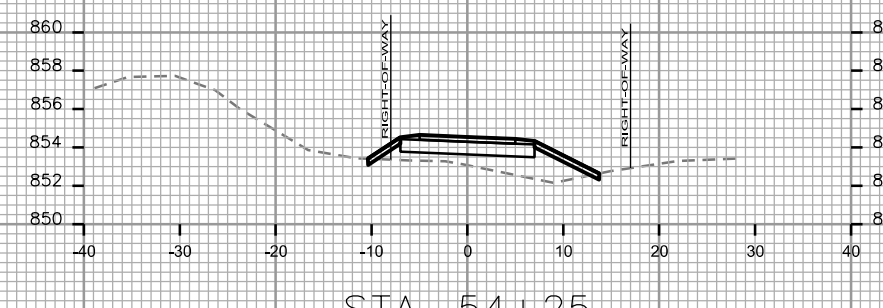
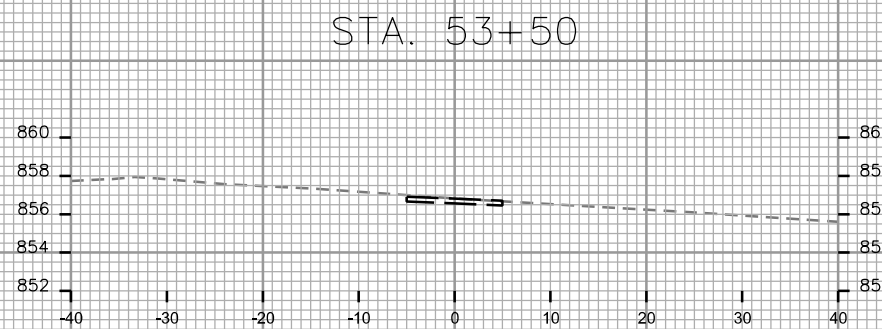
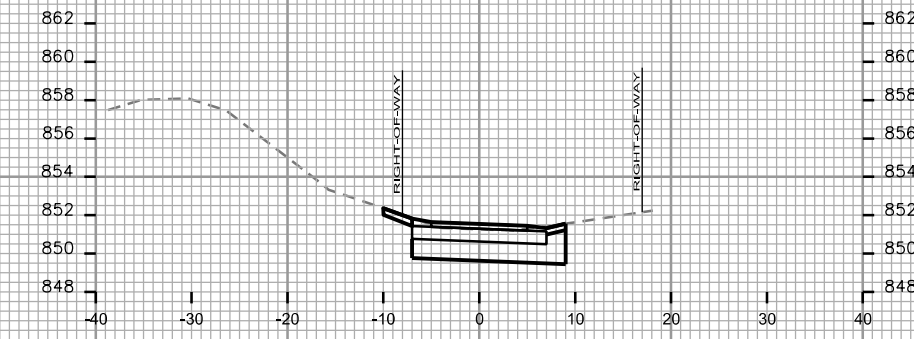
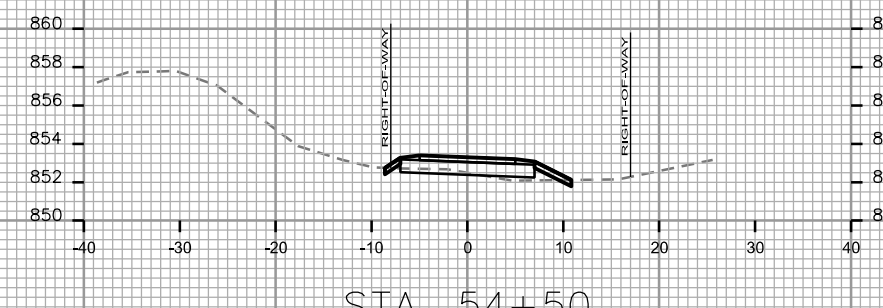
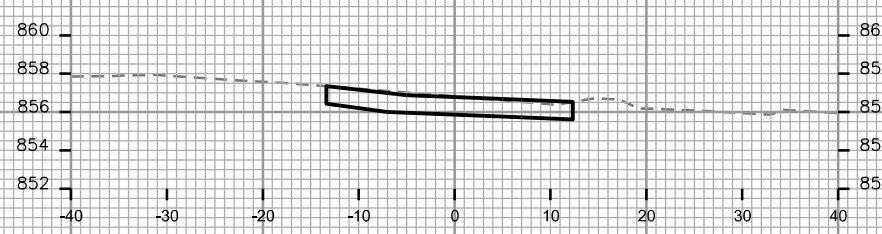
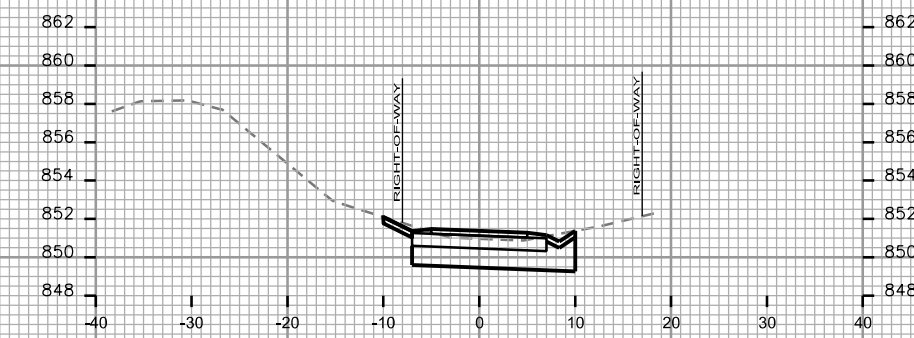
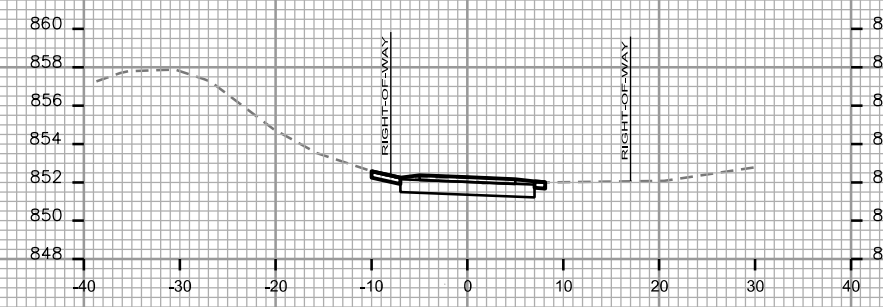
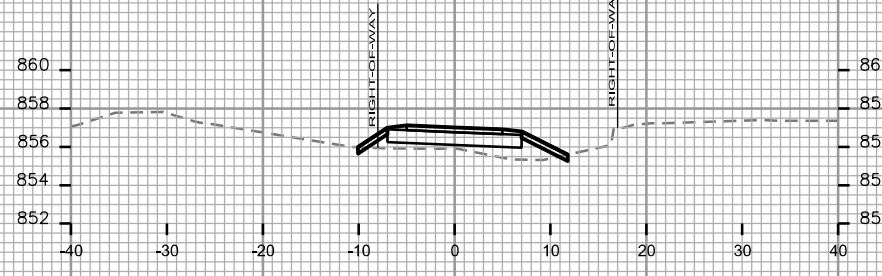
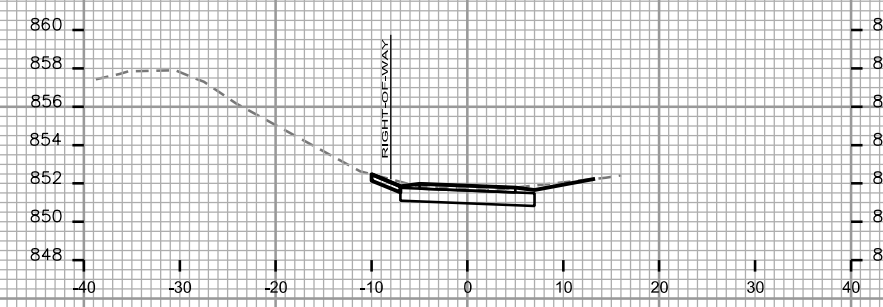
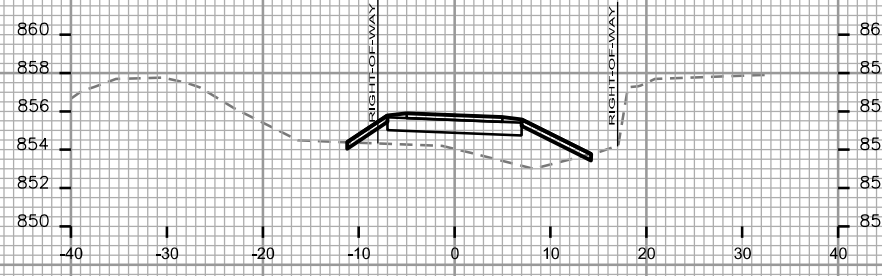
PATH CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

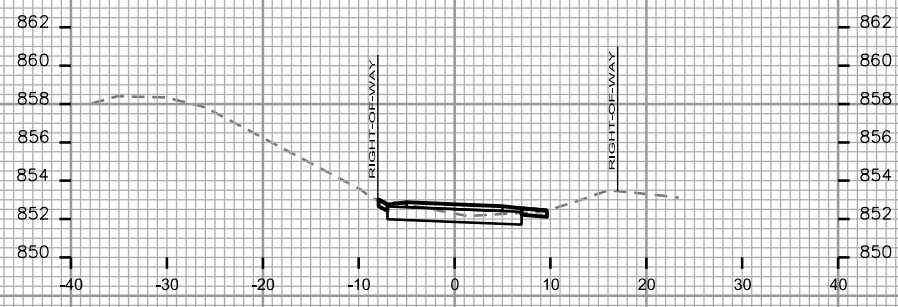
PATH CITY OF MADISON

PLOT SCALE: _____

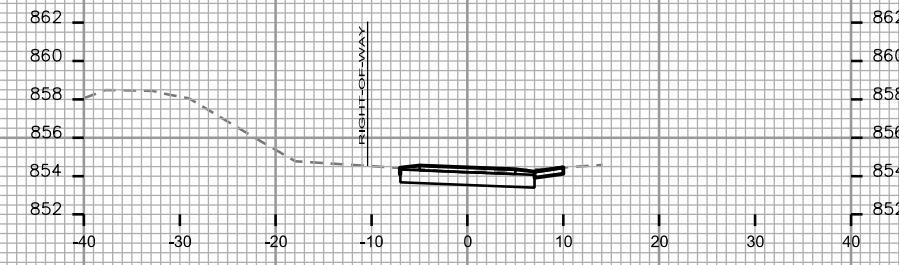
PLOT NAME: _____

REV. DATE: _____

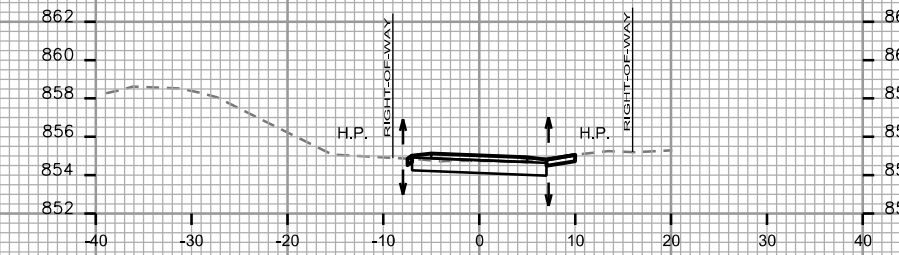
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



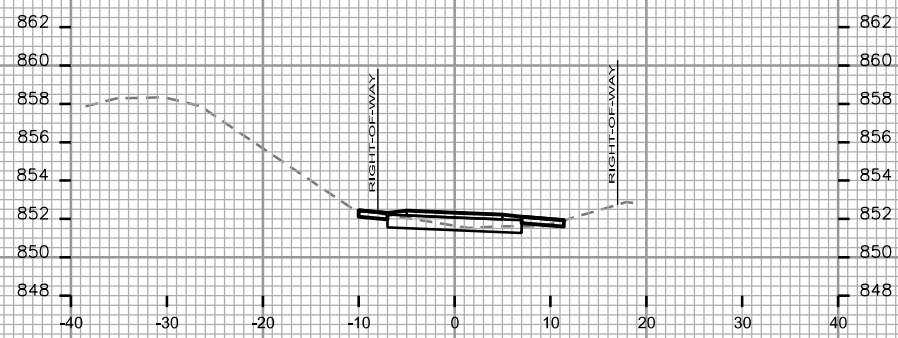
STA. 56+75



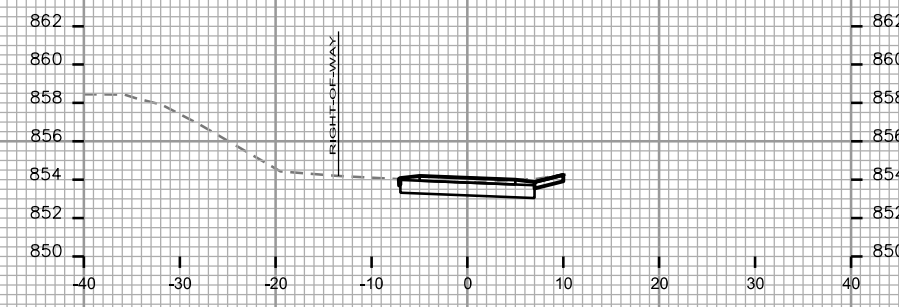
STA. 57+75



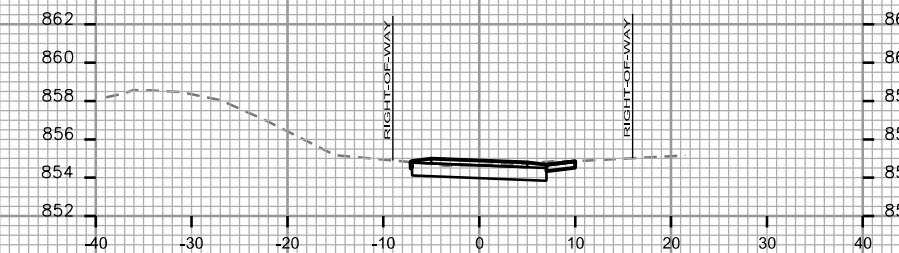
STA. 58+75



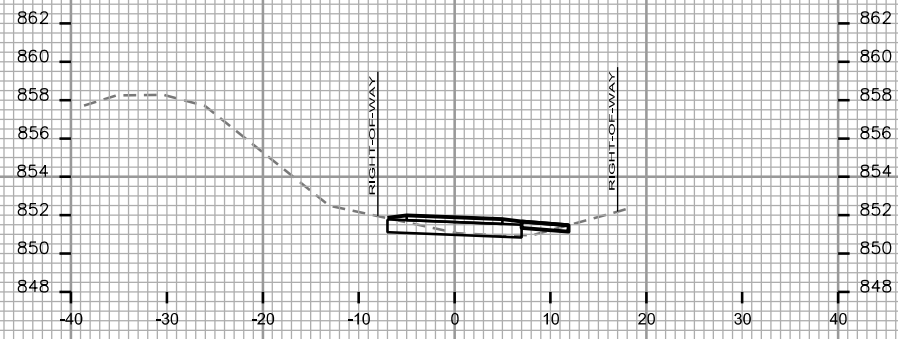
STA. 56+50



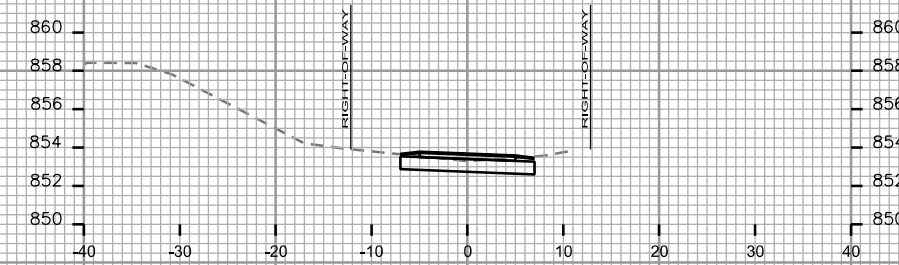
STA. 57+50



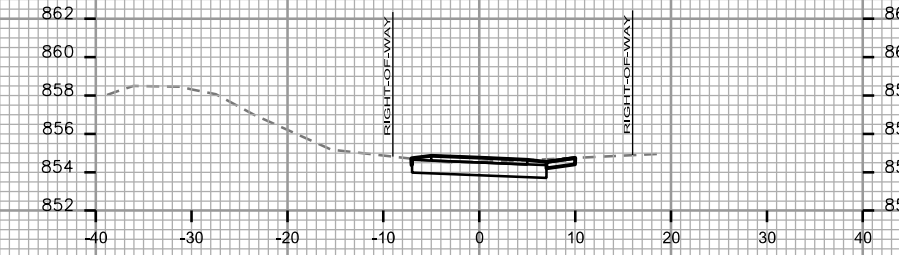
STA. 58+50



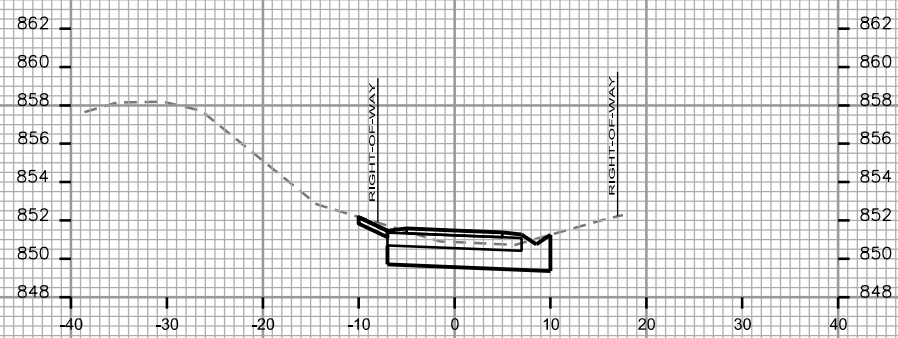
STA. 56+25



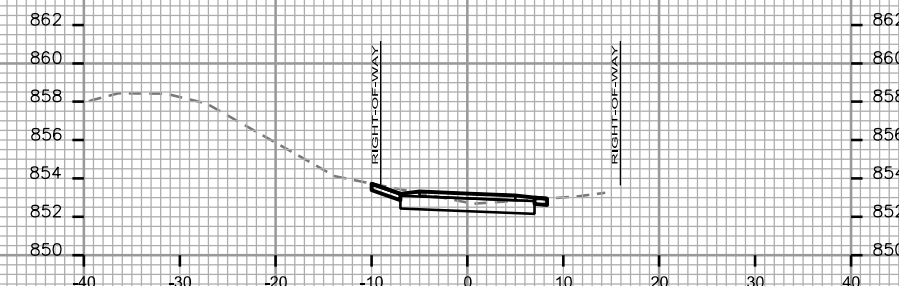
STA. 57+25



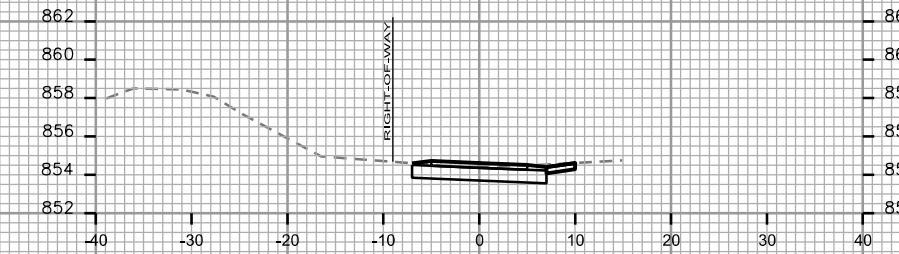
STA. 58+25



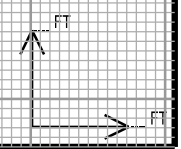
STA. 56+00



STA. 57+00



STA. 58+00



CROSS SECTIONS

PATH CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

