

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

WHEELER RD, DELAWARE BLVD &
NORTHLAND DR RESURFACING
ASSESSMENT DISTRICT - 2013

CITY PROJECT NO. 53W1555
CONTRACT NO. 7015

INDEX OF SHEETS

SHEET NO.	1	TITLE
SHEET NO.	DI	PROJECT OVERVIEW & ALIGNMENTS
SHEET NO.	D2-D3	TYPICAL SECTIONS
SHEET NO.	EC1-EC13	EROSION CONTROL PLAN
SHEET NO.	PI-PI3	STREETS PLAN & PROFILE
SHEET NO.	UI-UI3	UTILITIES PLAN & PROFILE
SHEET NO.	UI4-UI6	STORM SEWER SCHEDULES
SHEET NO.	UI7	SANITARY SEWER SCHEDULE
SHEET NO.	WI-W5	WATER MAIN PLAN & PROFILE
SHEET NO.	W6	WATER MAIN ESTIMATE OF MATERIALS & DETAILS
SHEET NO.	XI-X31	STREET CROSS SECTIONS

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
BURIED ELECTRIC	— E —
OVERHEAD ELECTRIC	— OH —
POWER POLE	
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

CONSTRUCTION PROJECT LOCATION

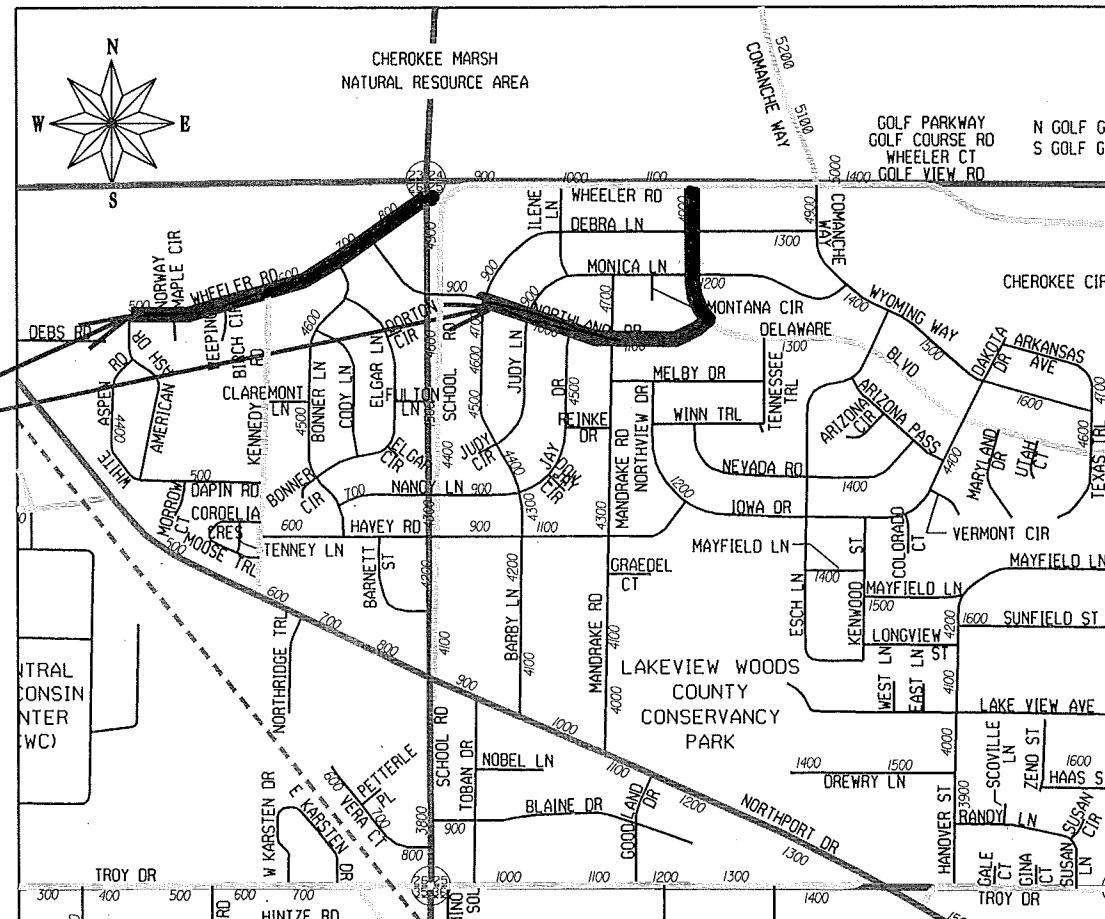
NOTES:

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

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

EARTH WORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY) 6570 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT 1600 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT 8170 C.Y.



PUBLIC IMPROVEMENT PROJECT
APPROVED

APRIL 16, 2013

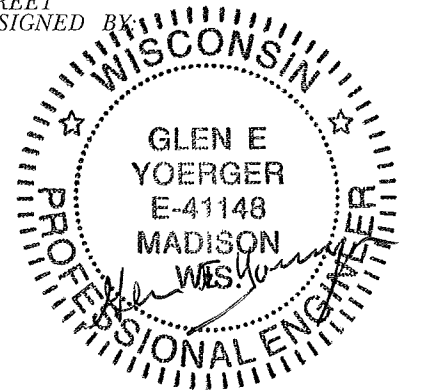
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

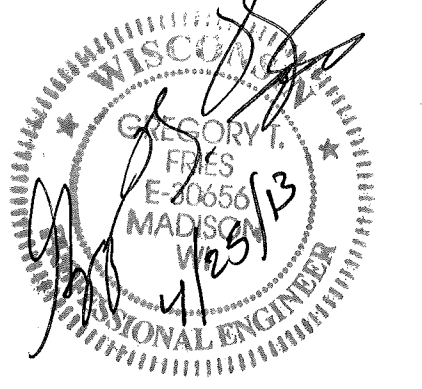
City Engineer

Date

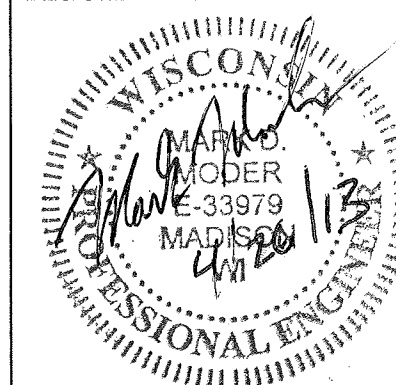
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DESIGNED BY:



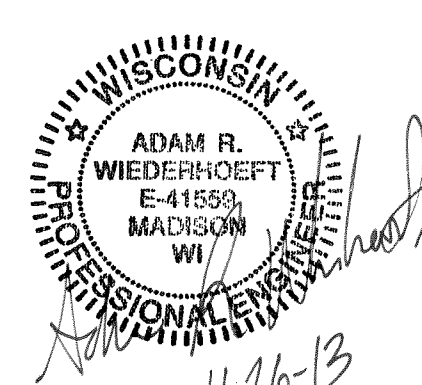
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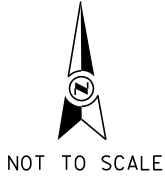


SANITARY SEWER
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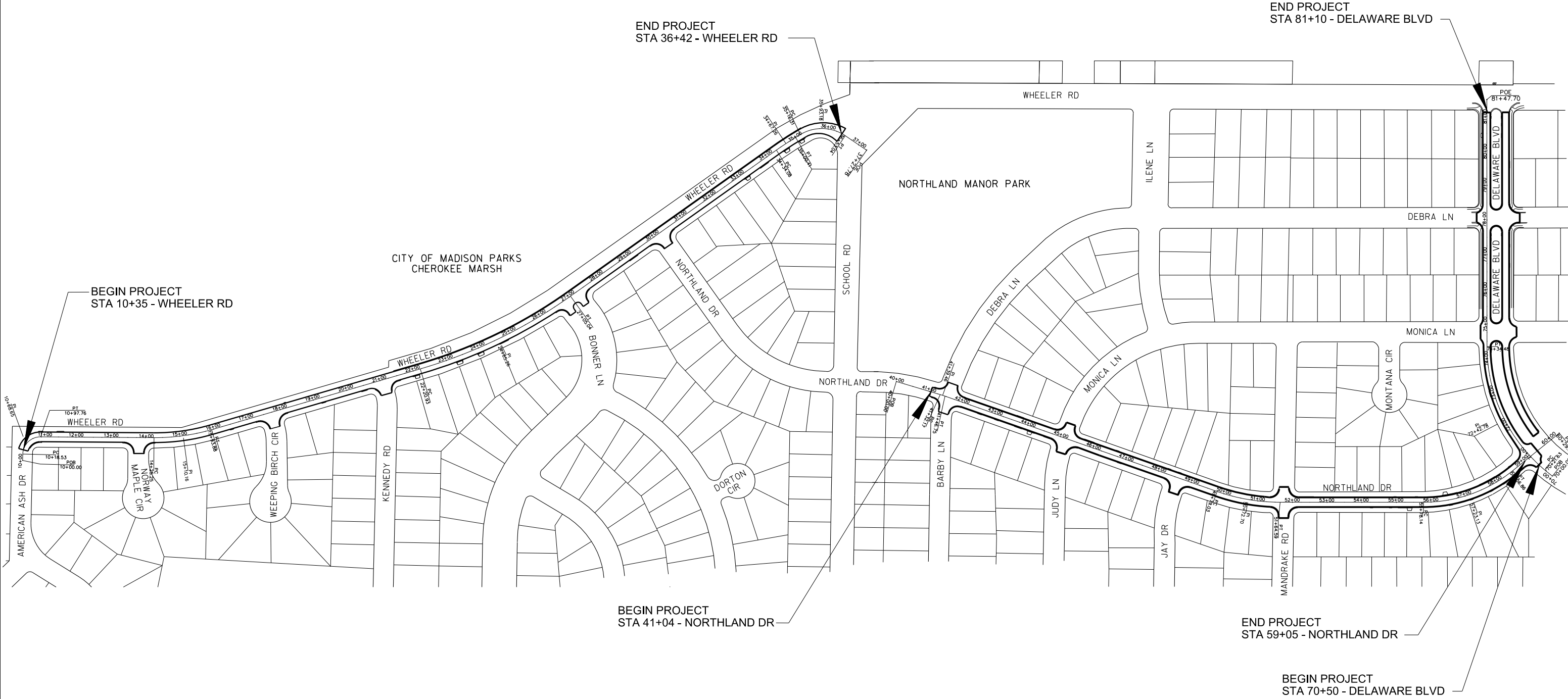


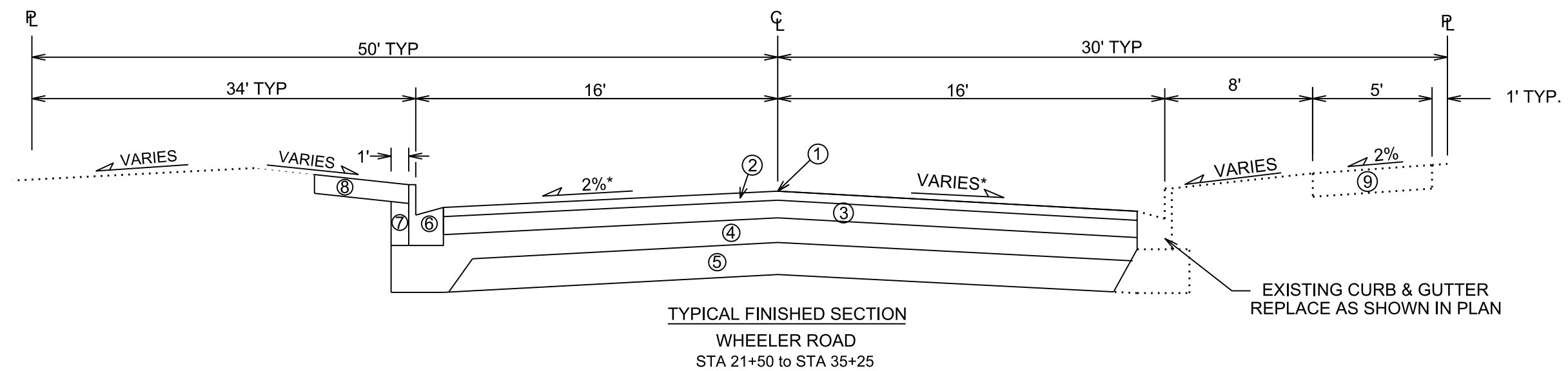
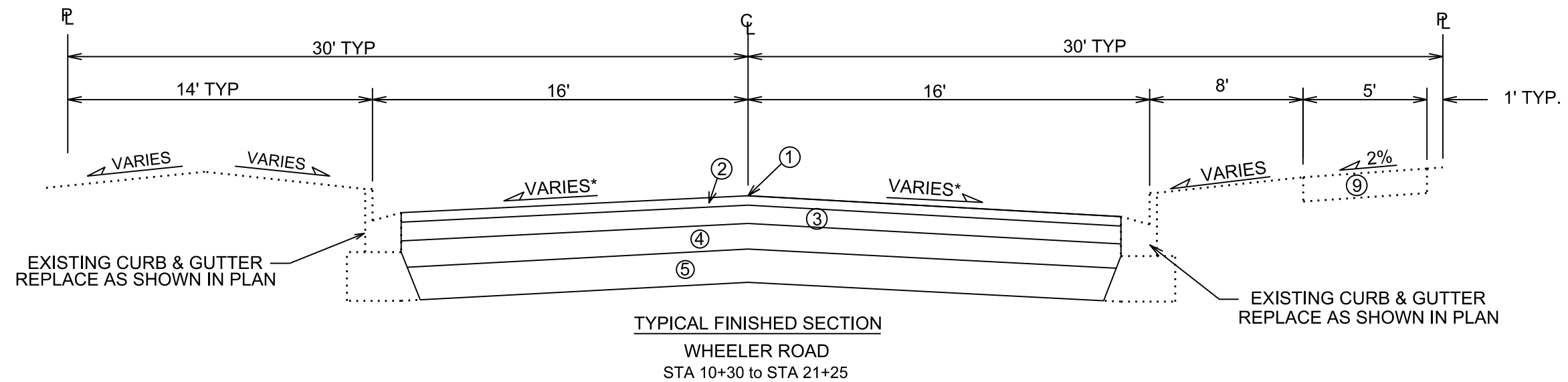
WATER MAIN
DESIGNED BY:





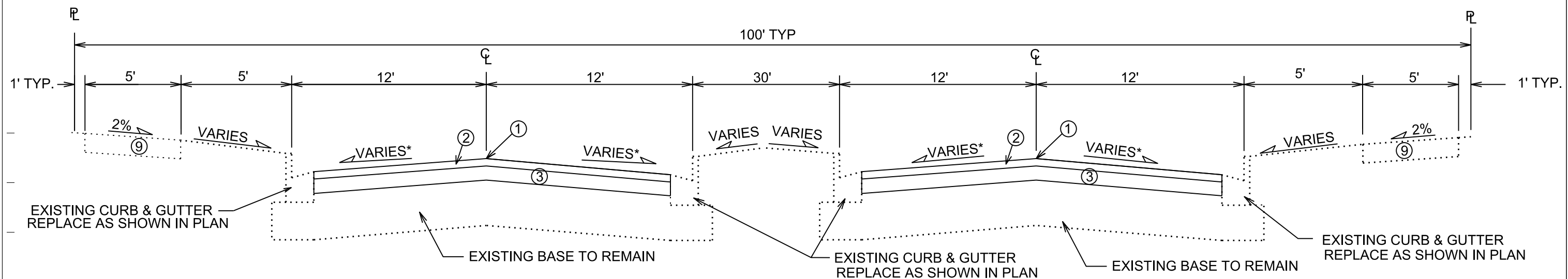
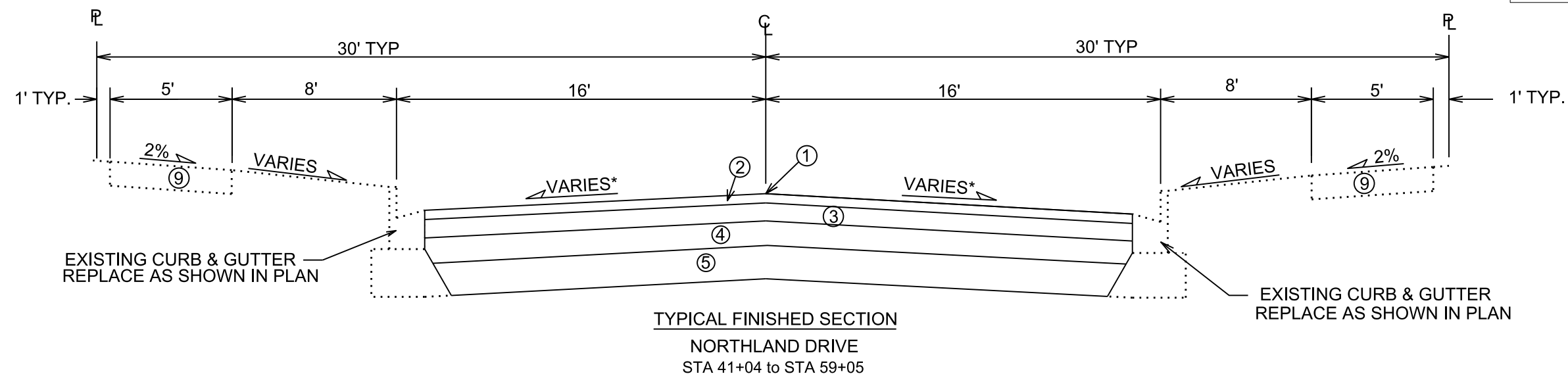
WHEELER RD, DELAWARE BLVD &
NORTHLAND DR RESURFACING - 2013





- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2¼" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' OR 'X' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL, SEED & MAT
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN

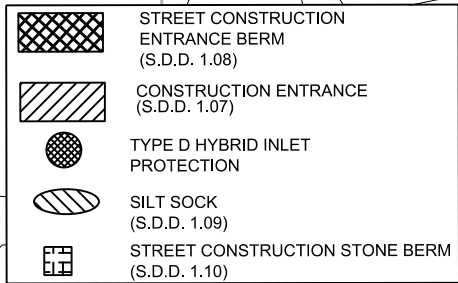
* SEE CROSS SECTION SHEETS FOR CROSS
SLOPES AND TOP OF CURB ELEVATIONS.
TYPICAL SECTIONS NOT TO SCALE



- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-1
- ③ 2 1/4" BITUMINOUS LOWER LAYER, TYPE E-1
- ④ 4" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' OR 'X' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 4" TOPSOIL, SEED & MAT
- ⑨ 5" CONCRETE SIDEWALK, REPLACE AS NOTED IN PLAN

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

WHEELER ROAD CITY OF MADISON



EROSION CONTROL NOTES:

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

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

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

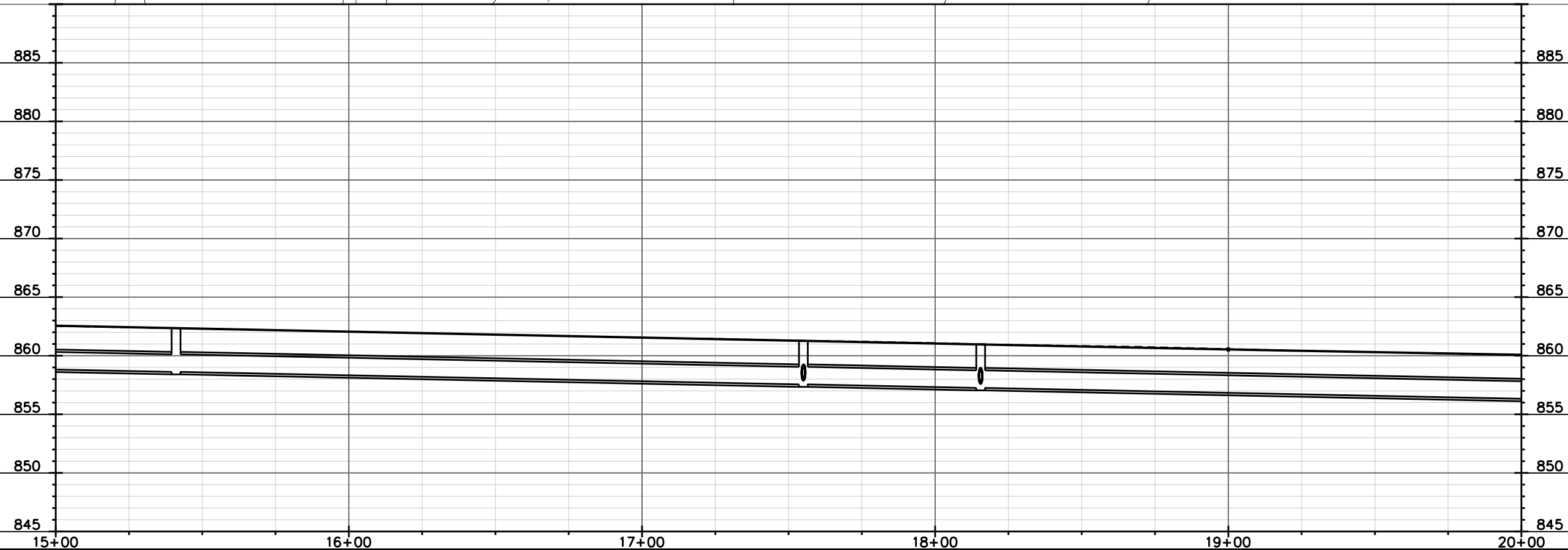
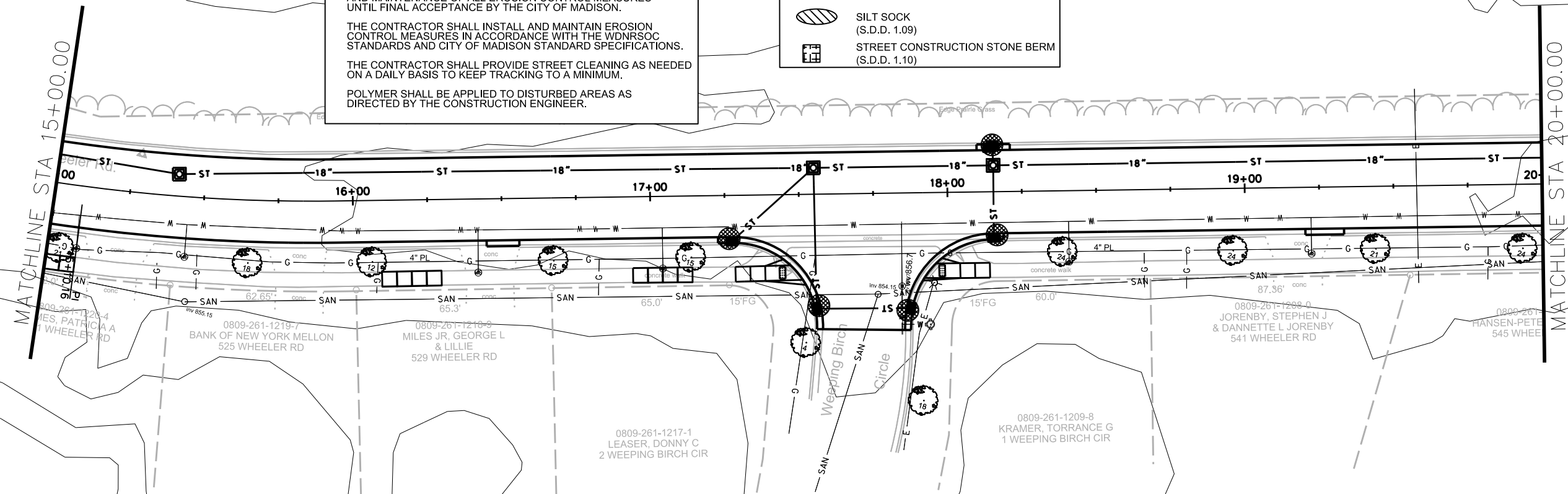
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

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

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



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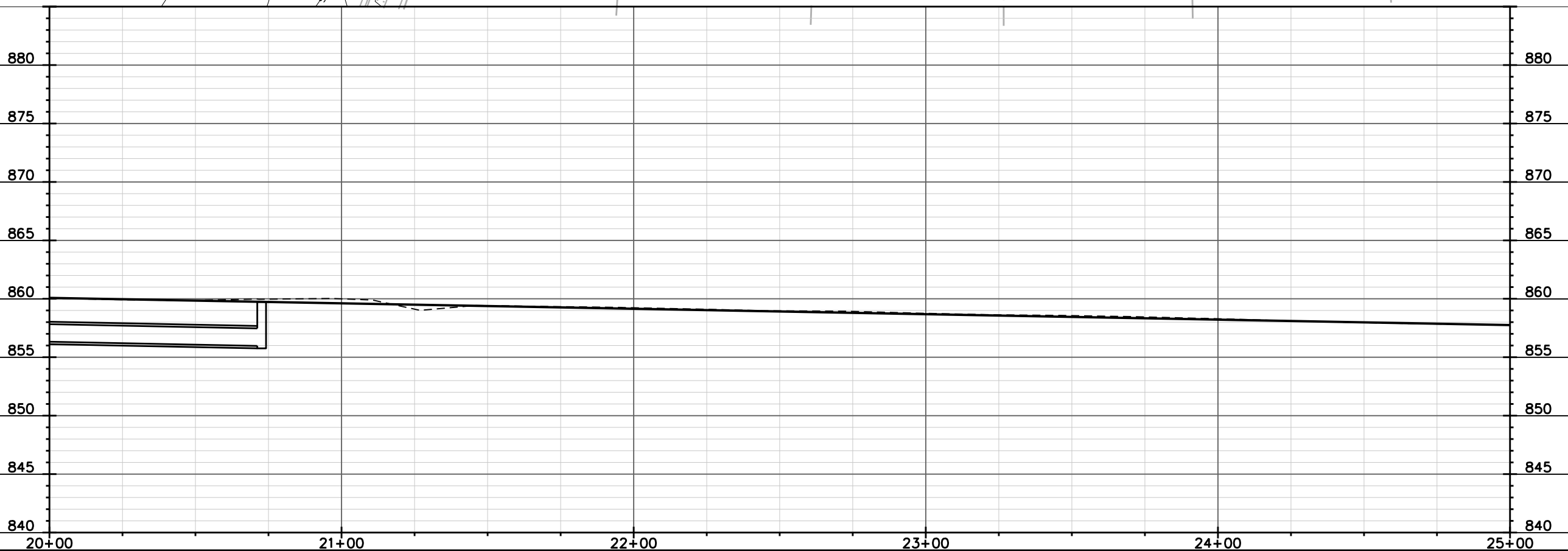
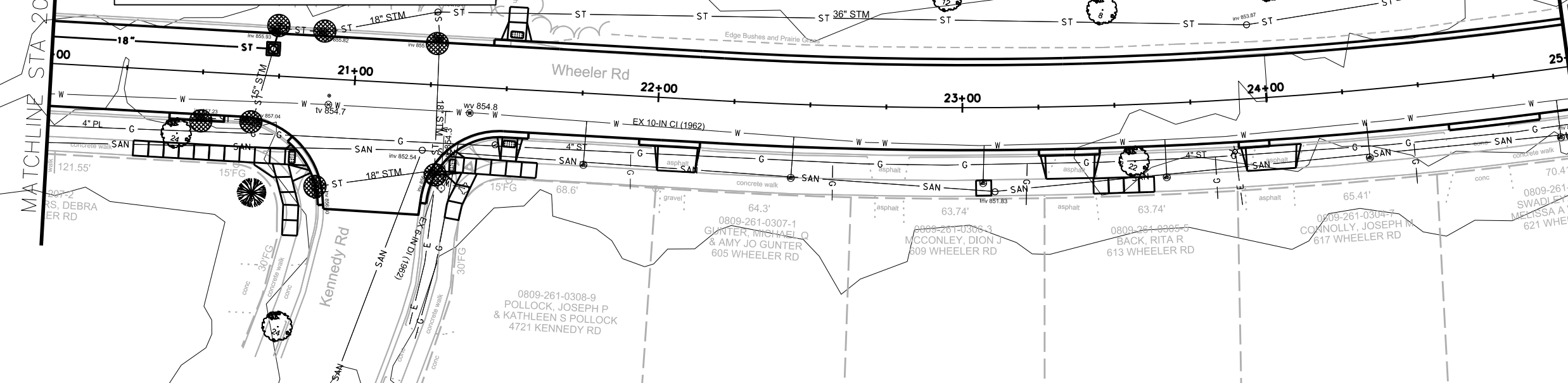
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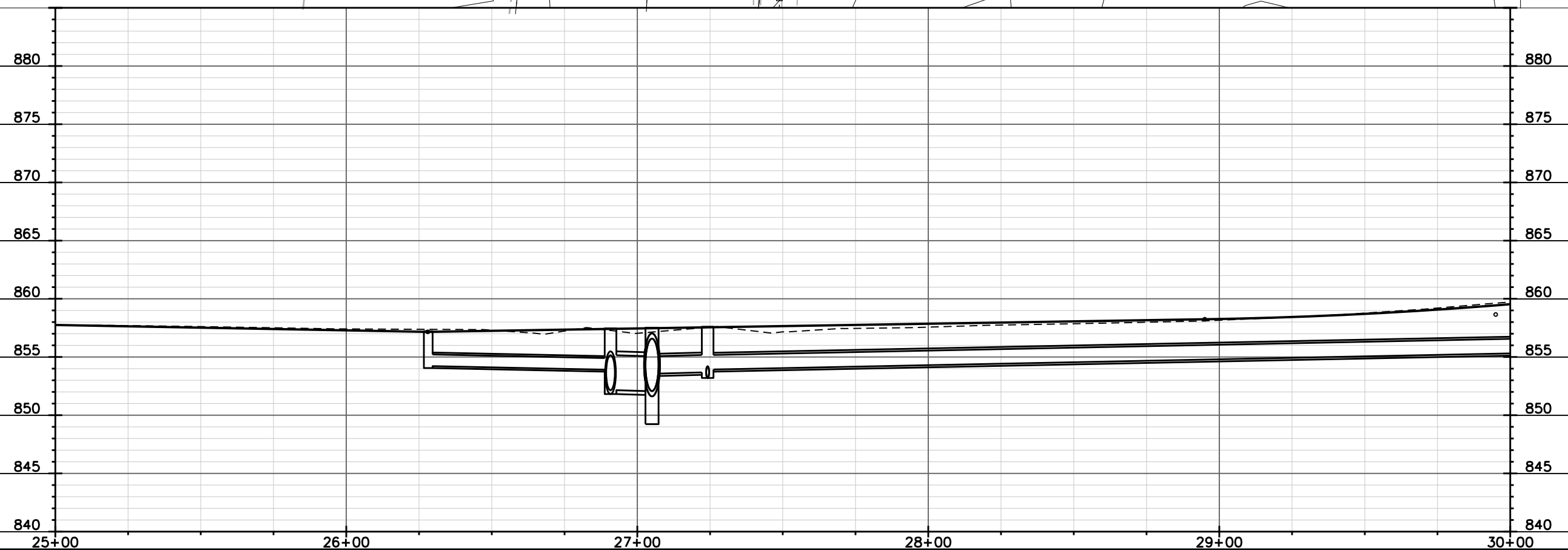
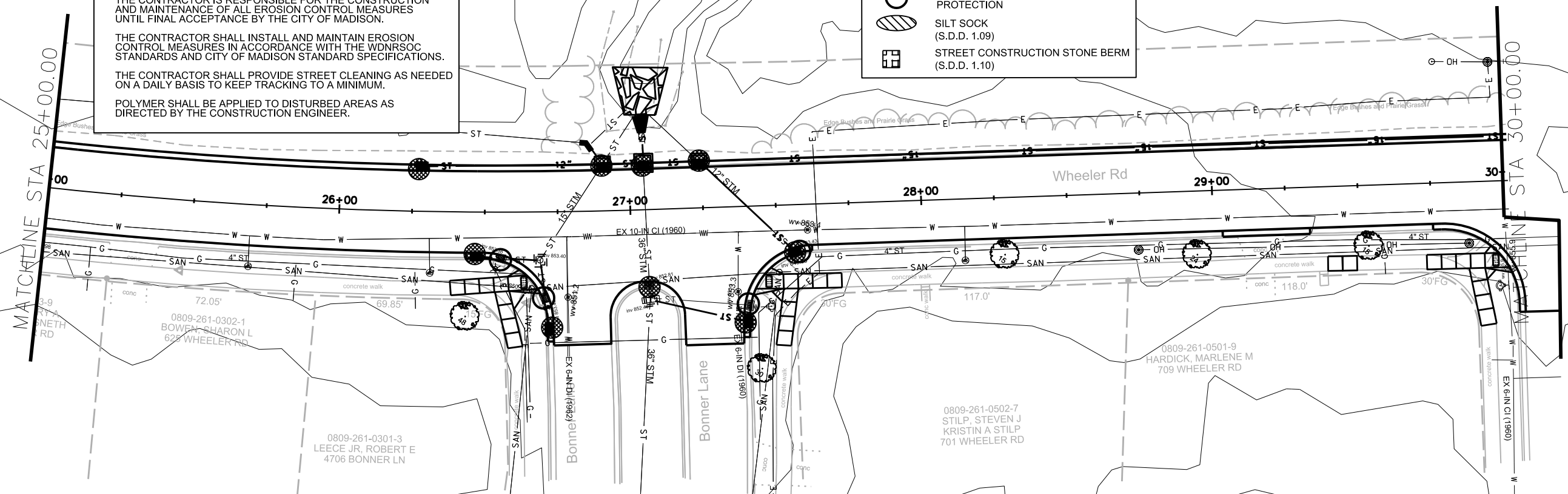
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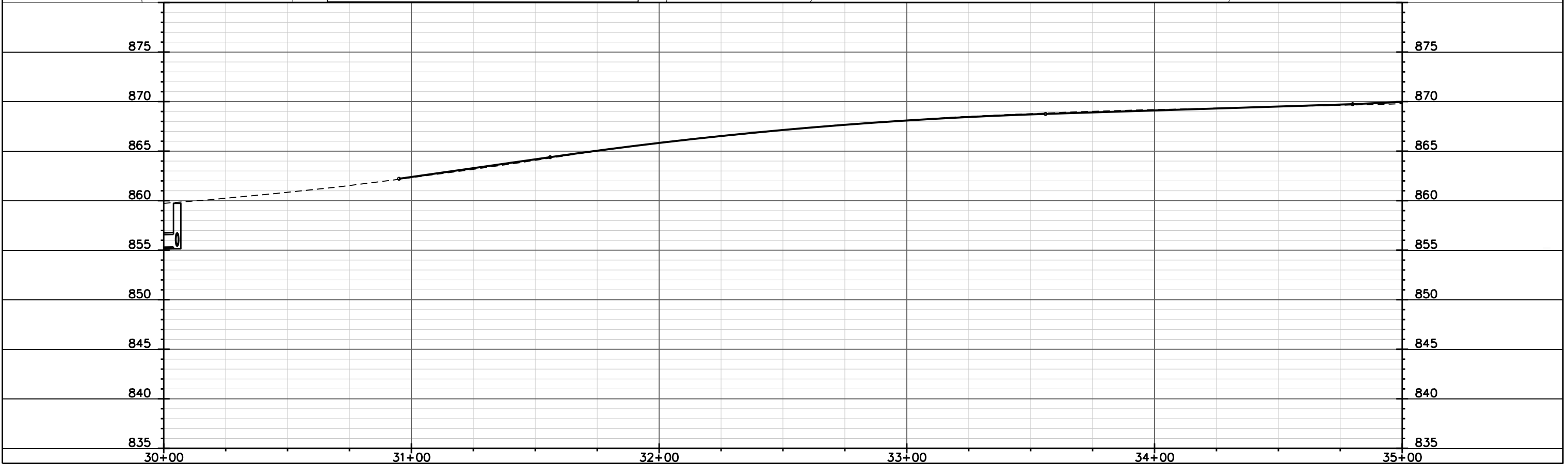
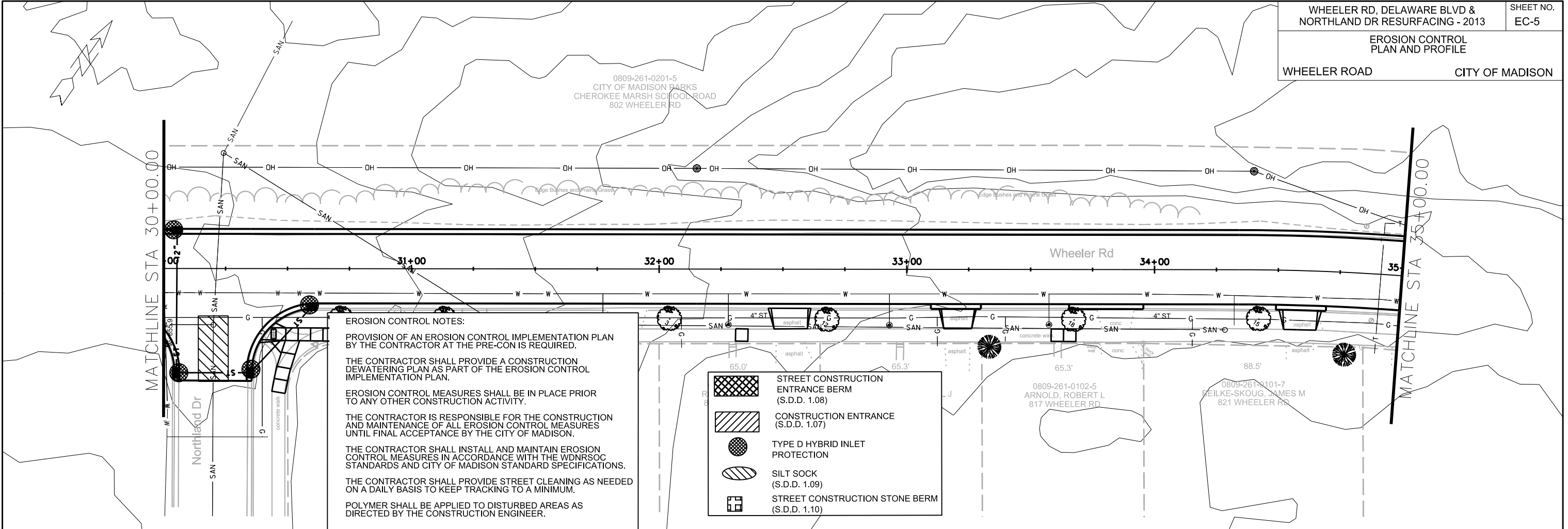
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(S.D.D. 1.07) |
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PROTECTION |
|  | TYPE C INLET
PROTECTION |
|  | SILT SOCK
(S.D.D. 1.09) |
|  | STREET CONSTRUCTION STONE BERM
(S.D.D. 1.10) |



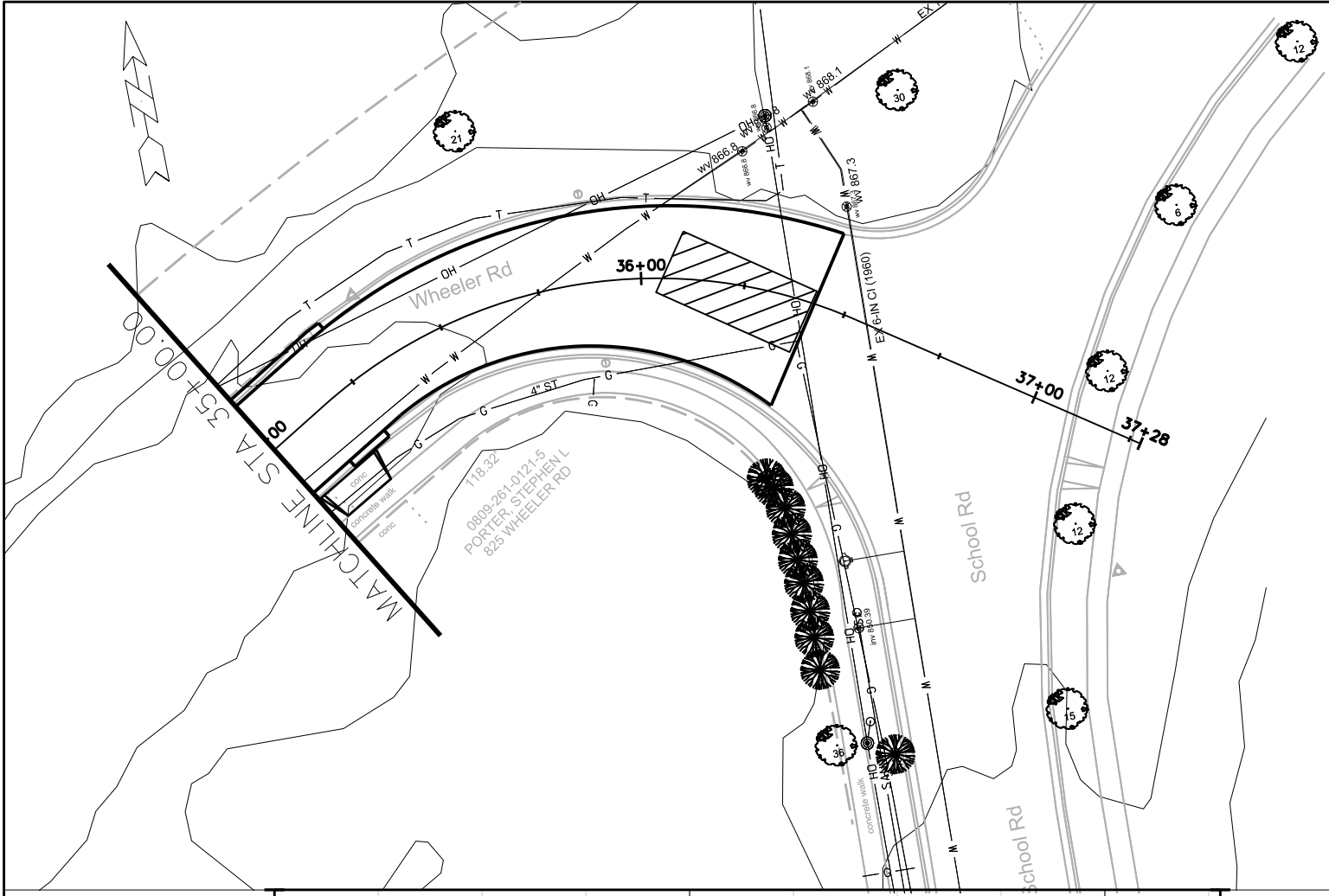


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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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



PLOT SCALE: _____

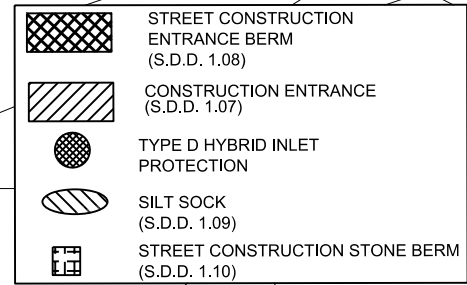
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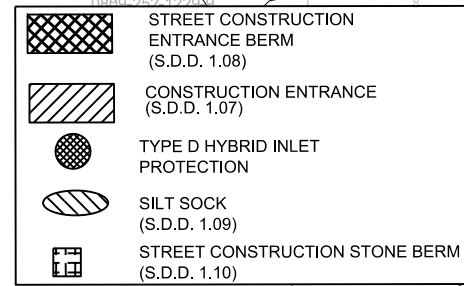
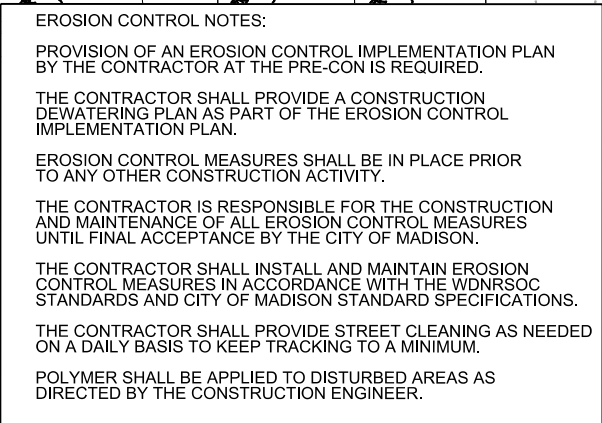
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

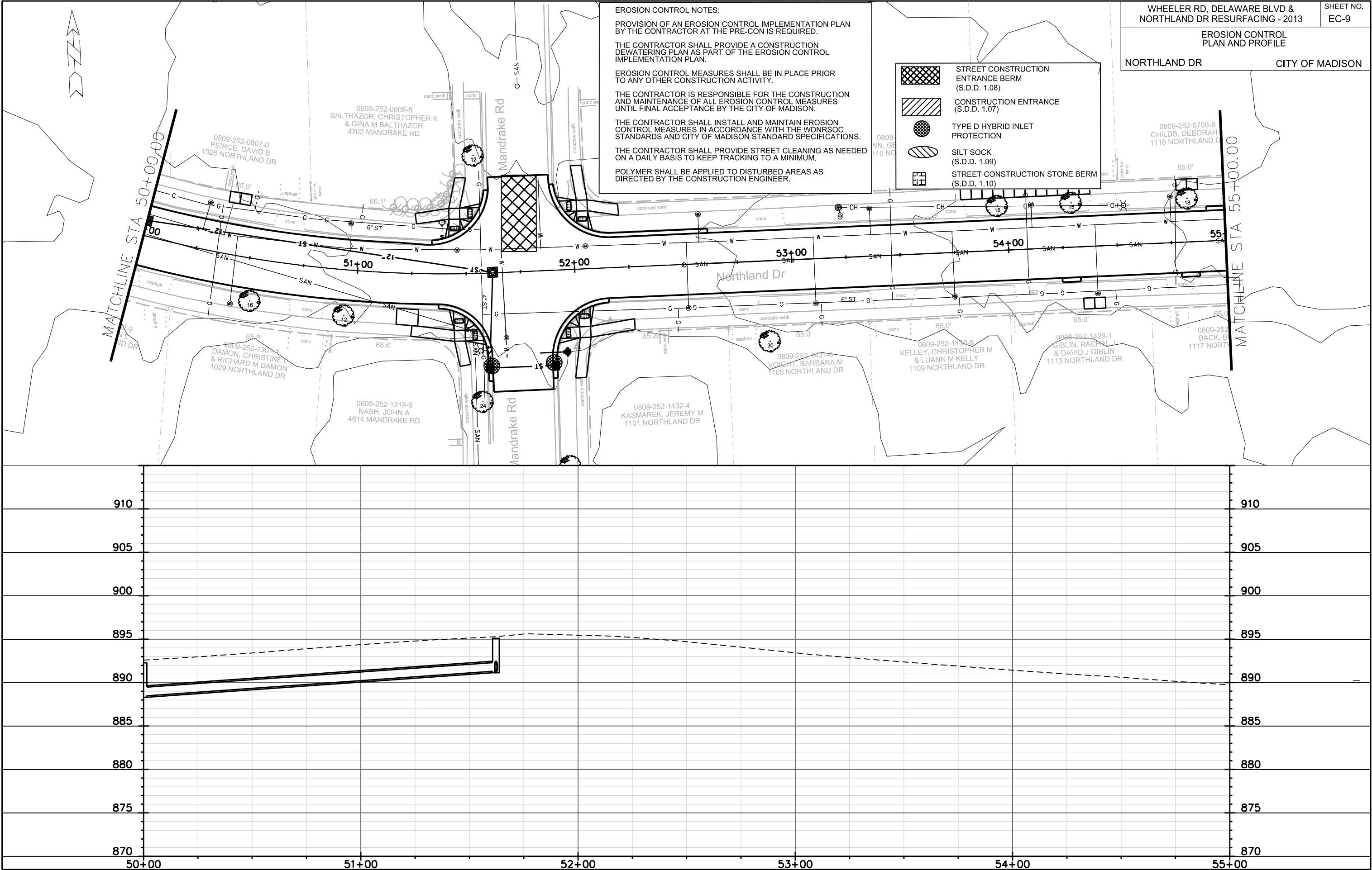
CITY OF MADISON

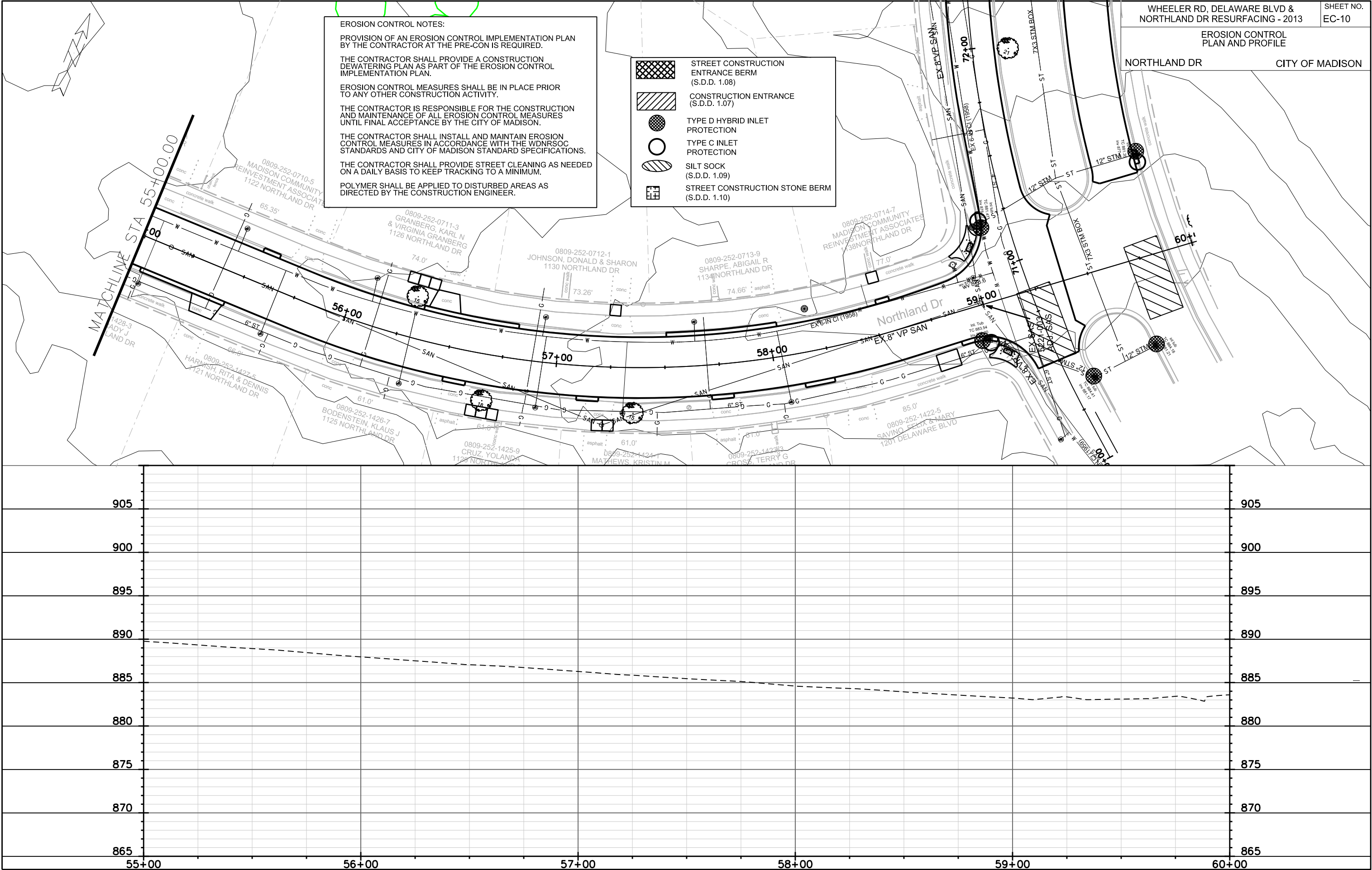
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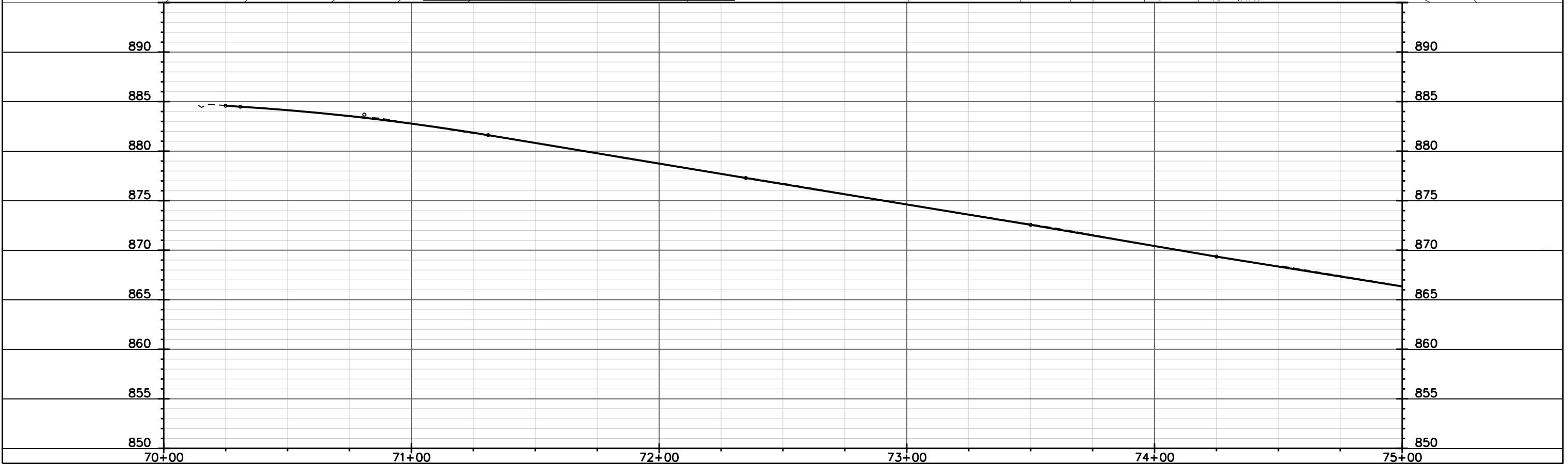
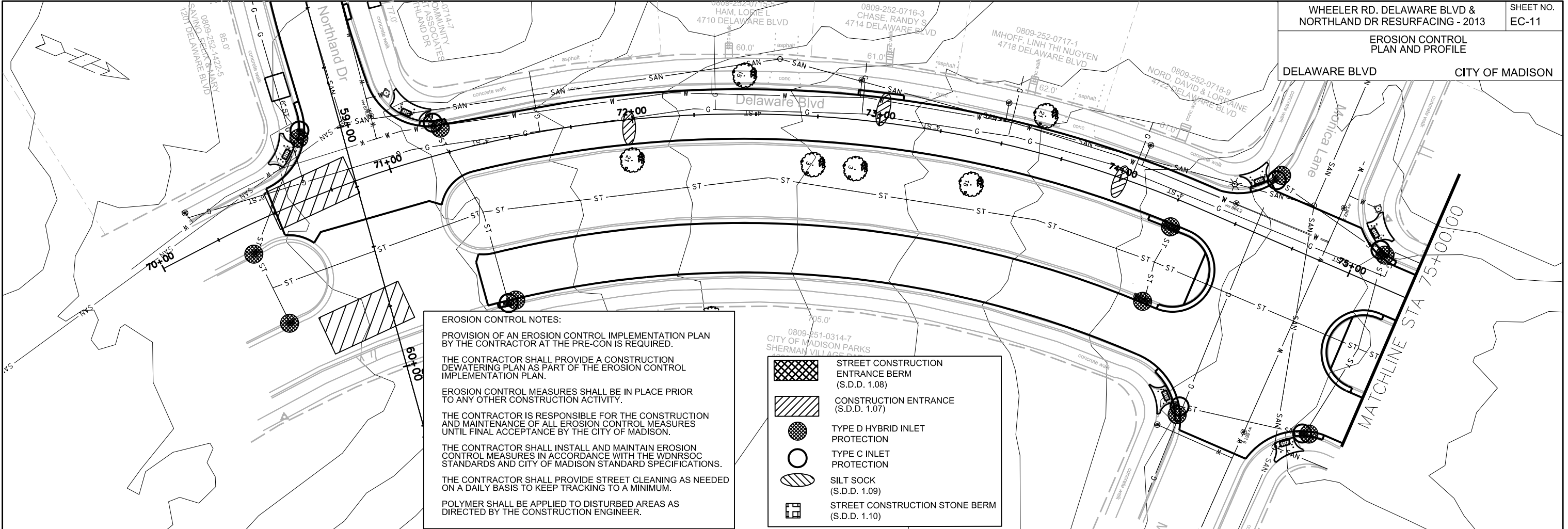


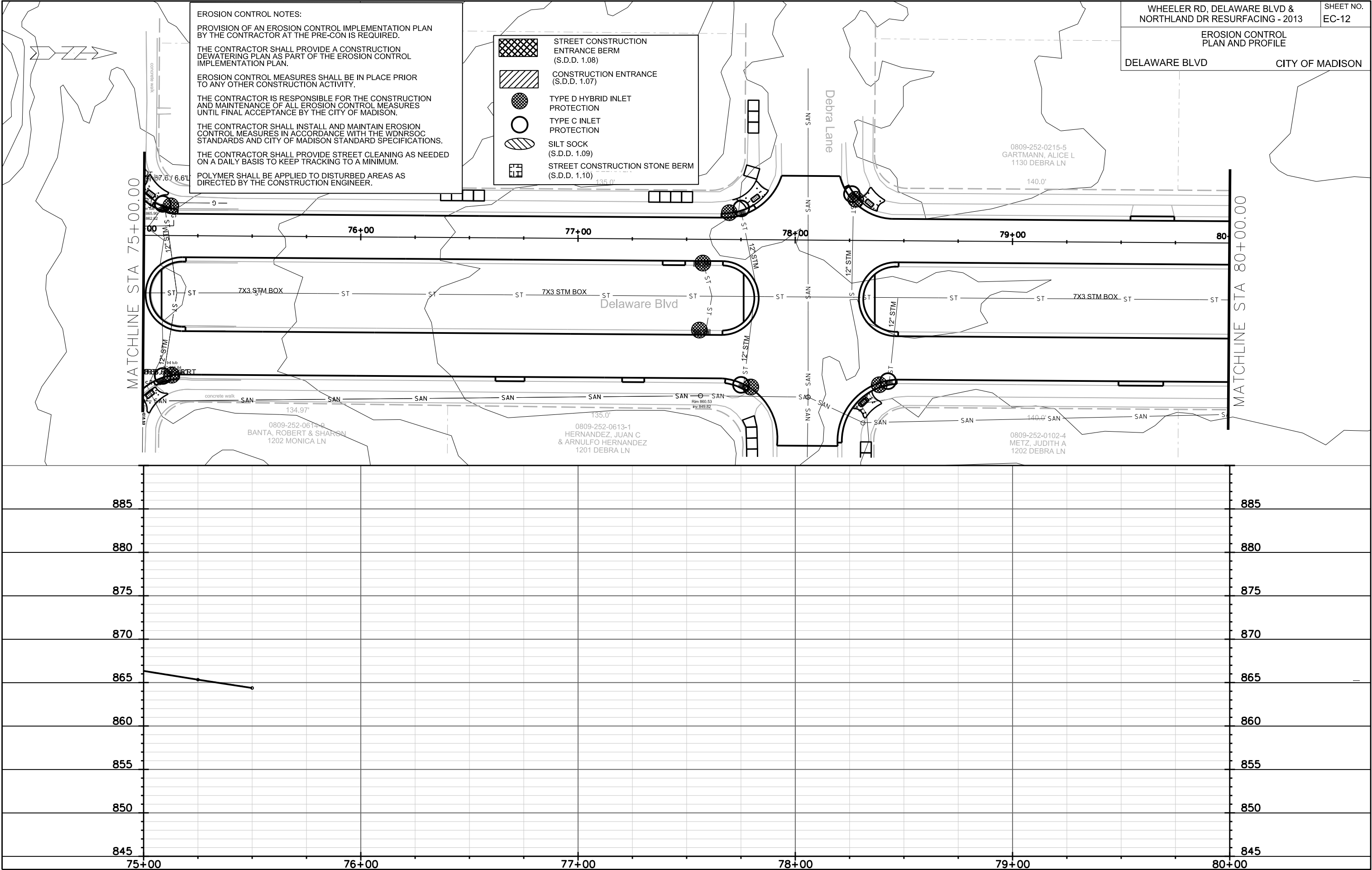
NORTHLAND DR CITY OF MADISON



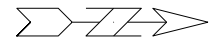






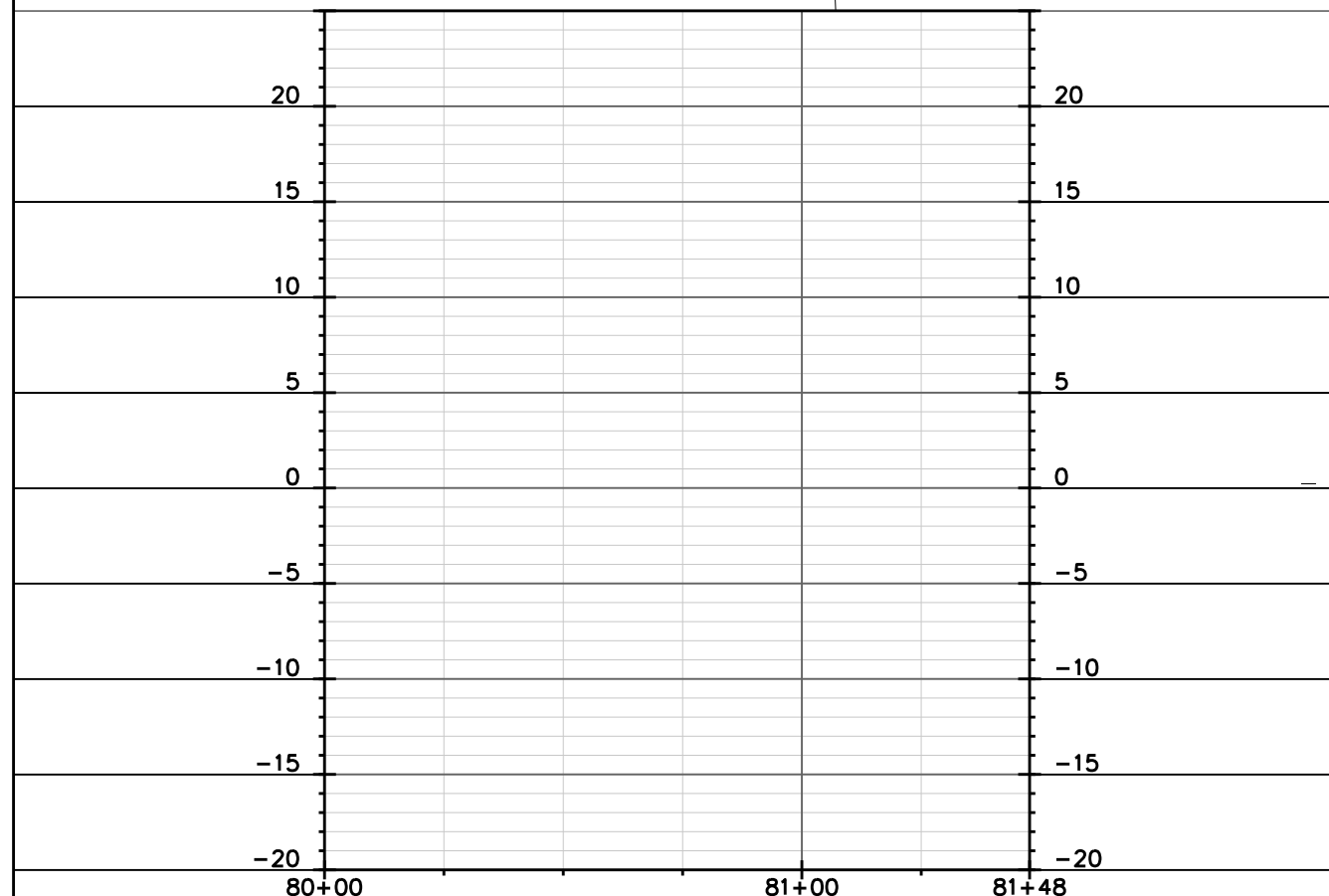


EROSION CONTROL PLAN AND PROFILE	
DELAWARE BLVD	CITY OF MADISON

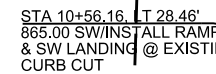


POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

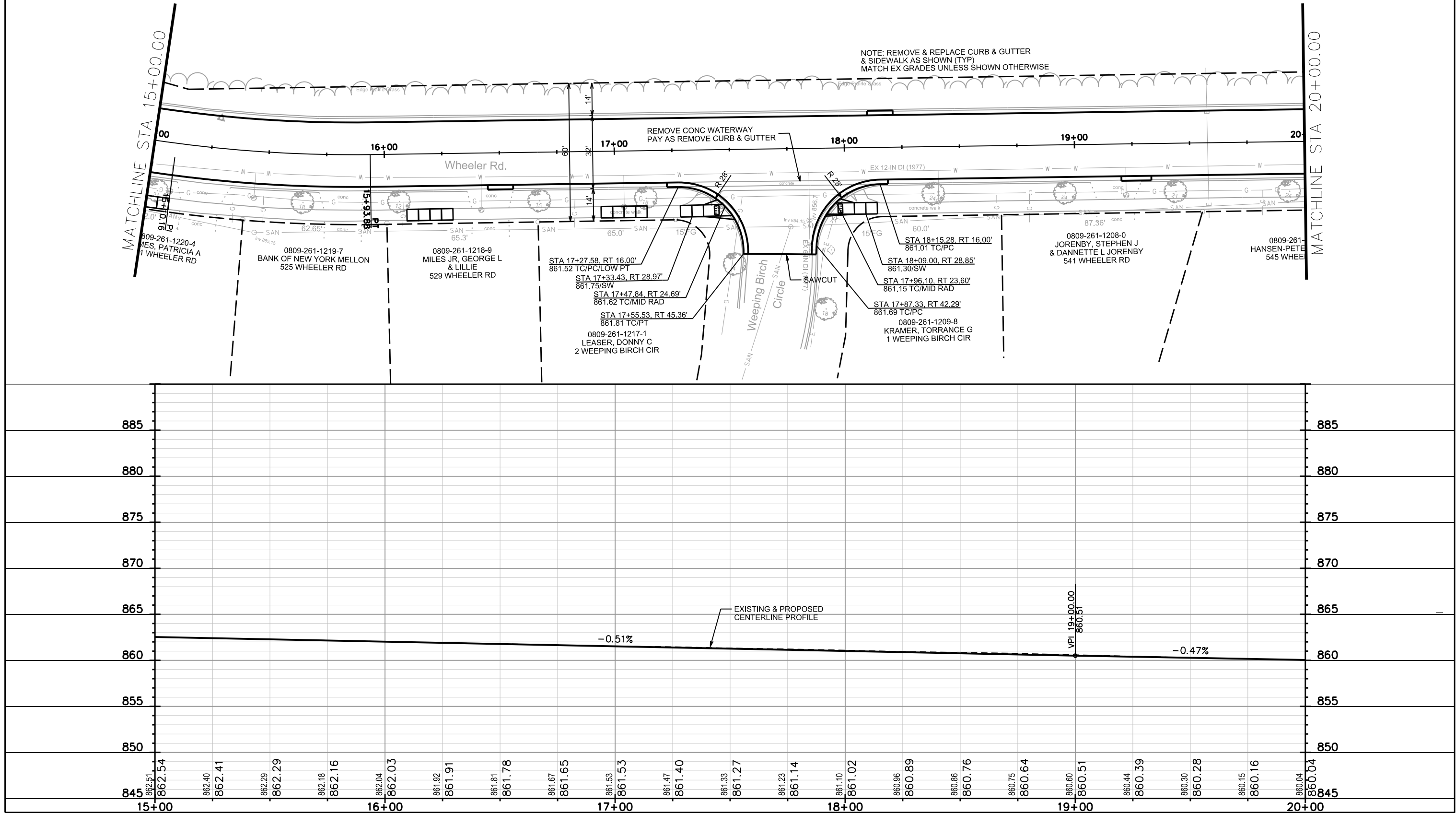
- | | |
|---|---|
|  | STREET CONSTRUCTION
ENTRANCE BERM
(S.D.D. 1.08) |
|  | CONSTRUCTION ENTRANCE
(S.D.D. 1.07) |
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PROTECTION |
|  | SILT SOCK
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|  | STREET CONSTRUCTION STONE BERM
(S.D.D. 1.10) |

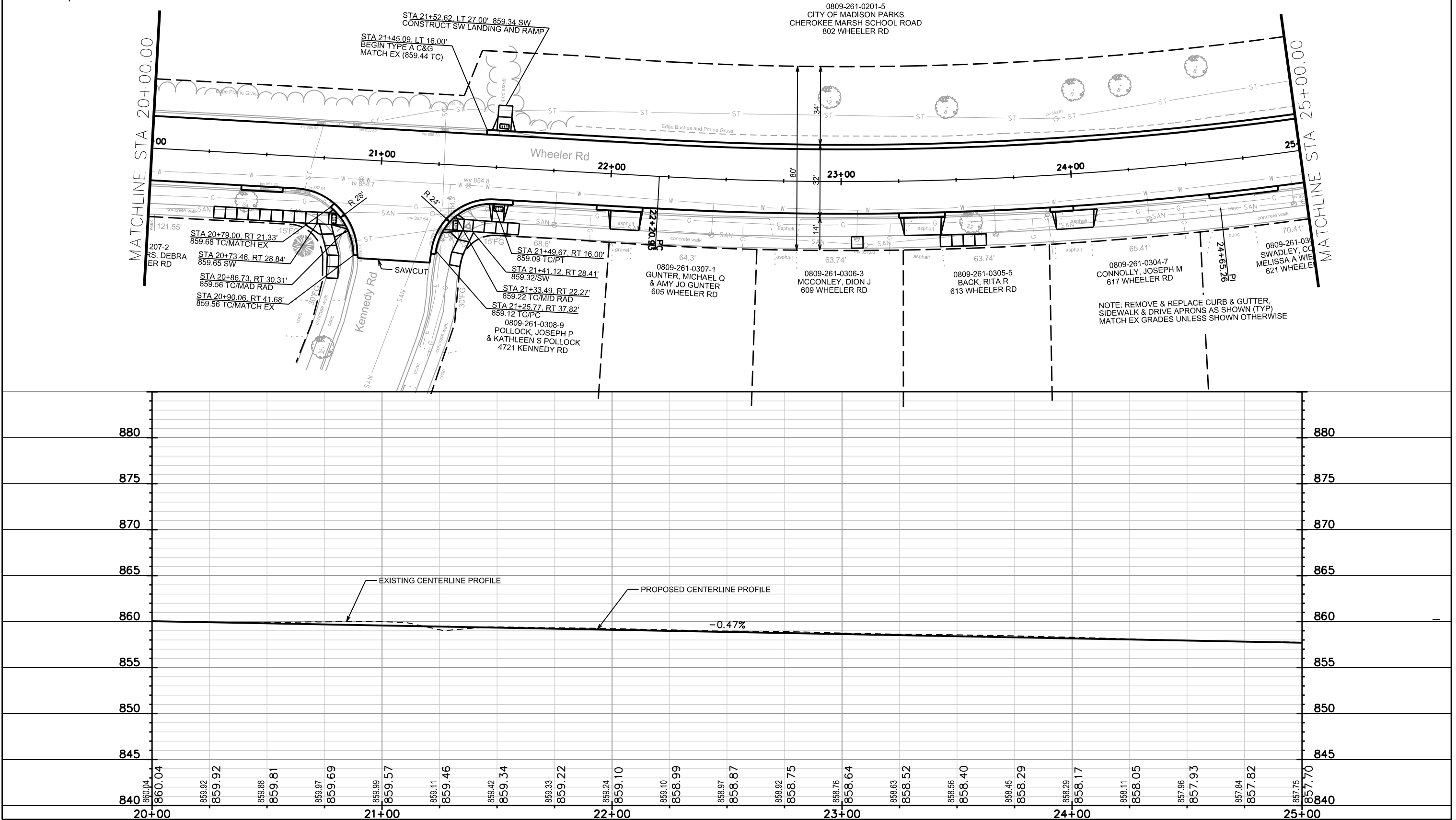


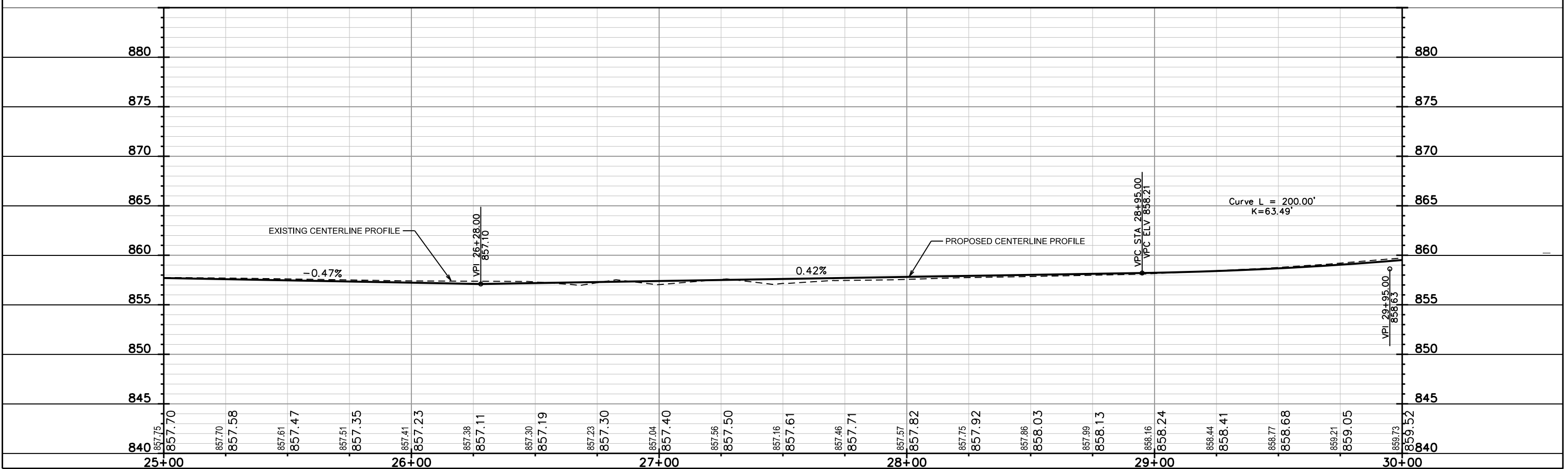
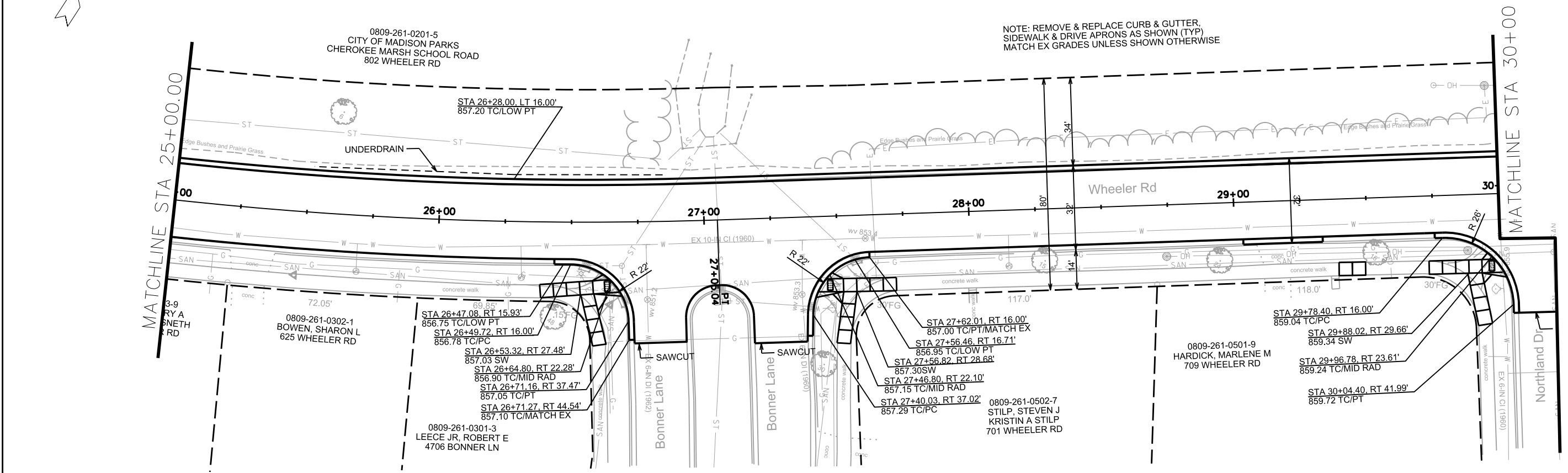
WHEELER ROAD CITY OF MADISON



-0.51%

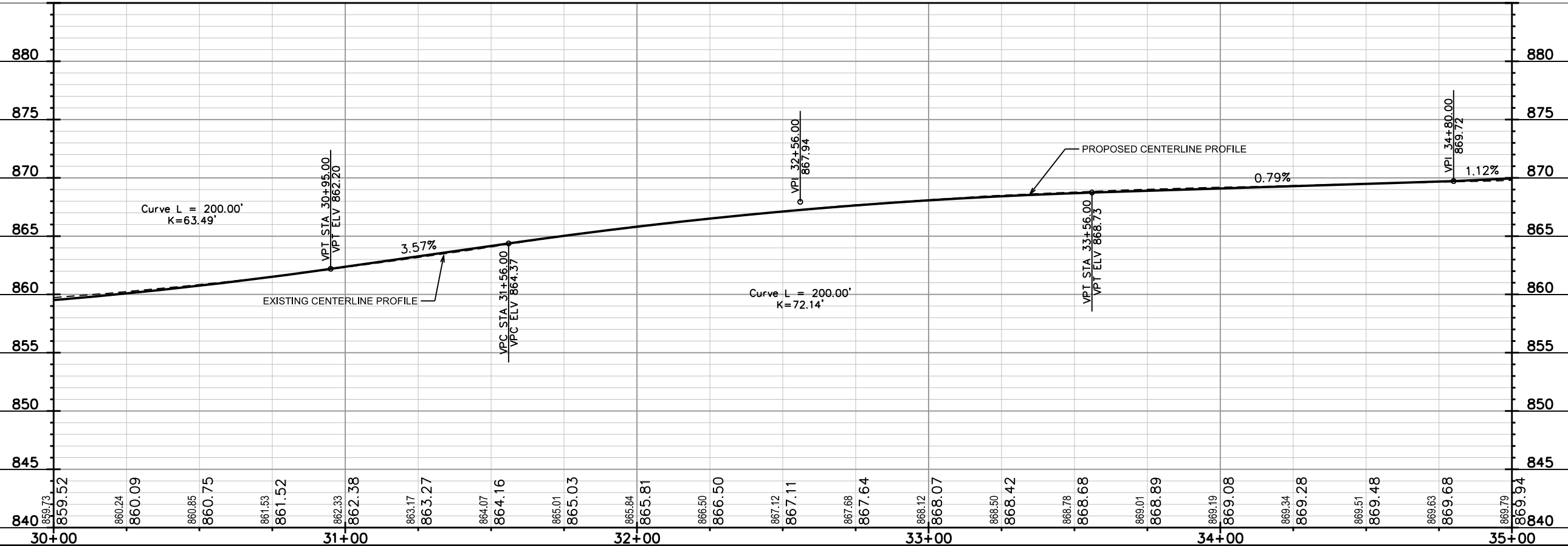
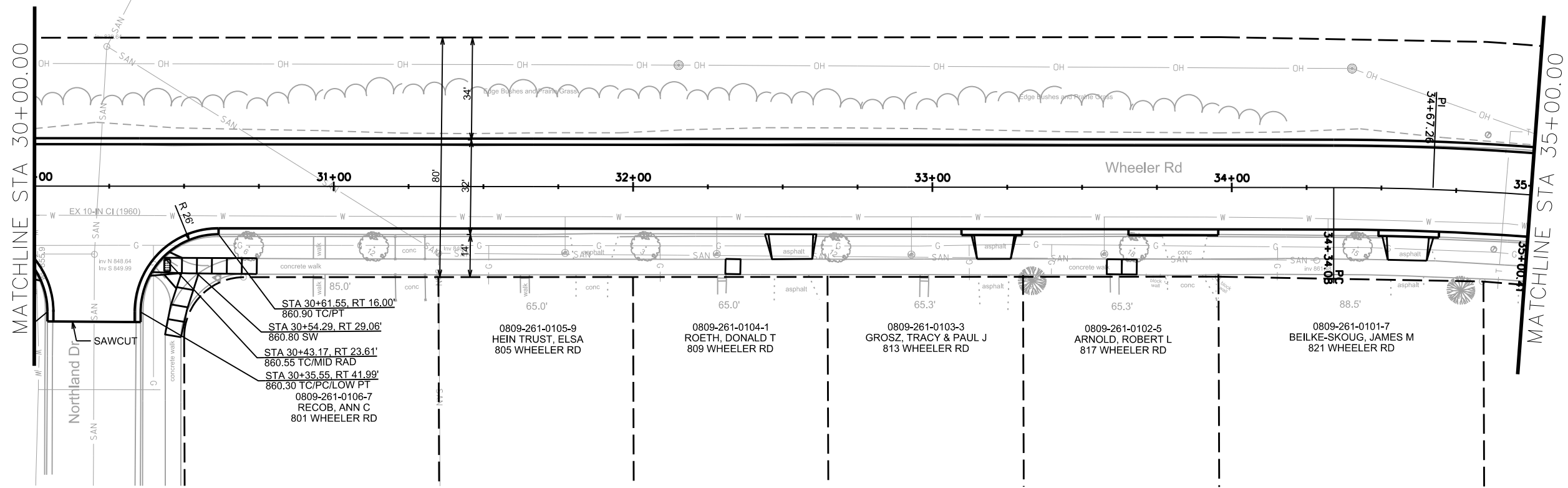






0809-261-0201-5
CITY OF MADISON PARKS
CHEROKEE MARSH SCHOOL ROAD
802 WHEELER RD

NOTE: REMOVE & REPLACE CURB & GUTTER,
SIDEWALK & DRIVE APRONS AS SHOWN (TYP)
MATCH EX GRADES UNLESS SHOWN OTHERWISE

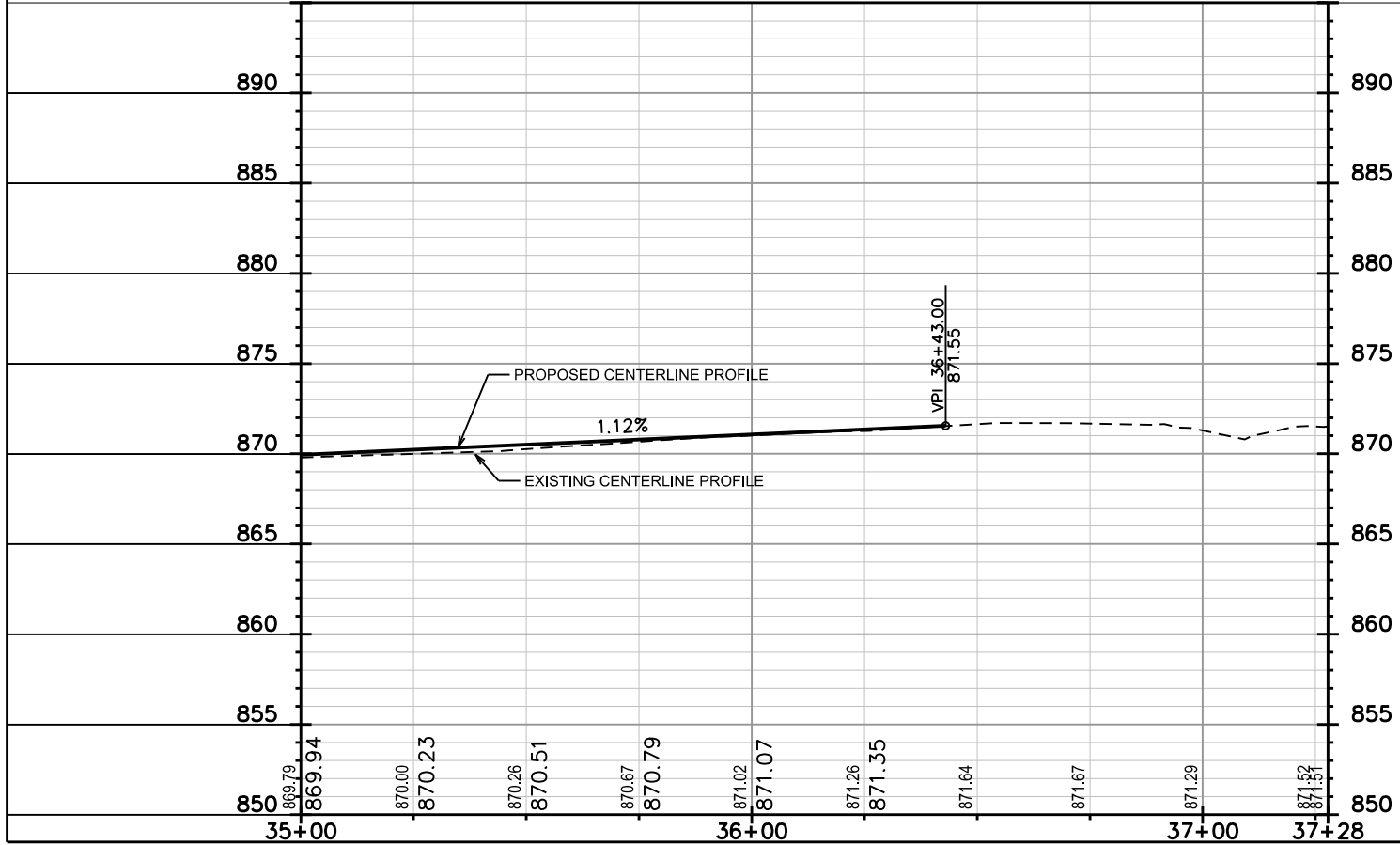
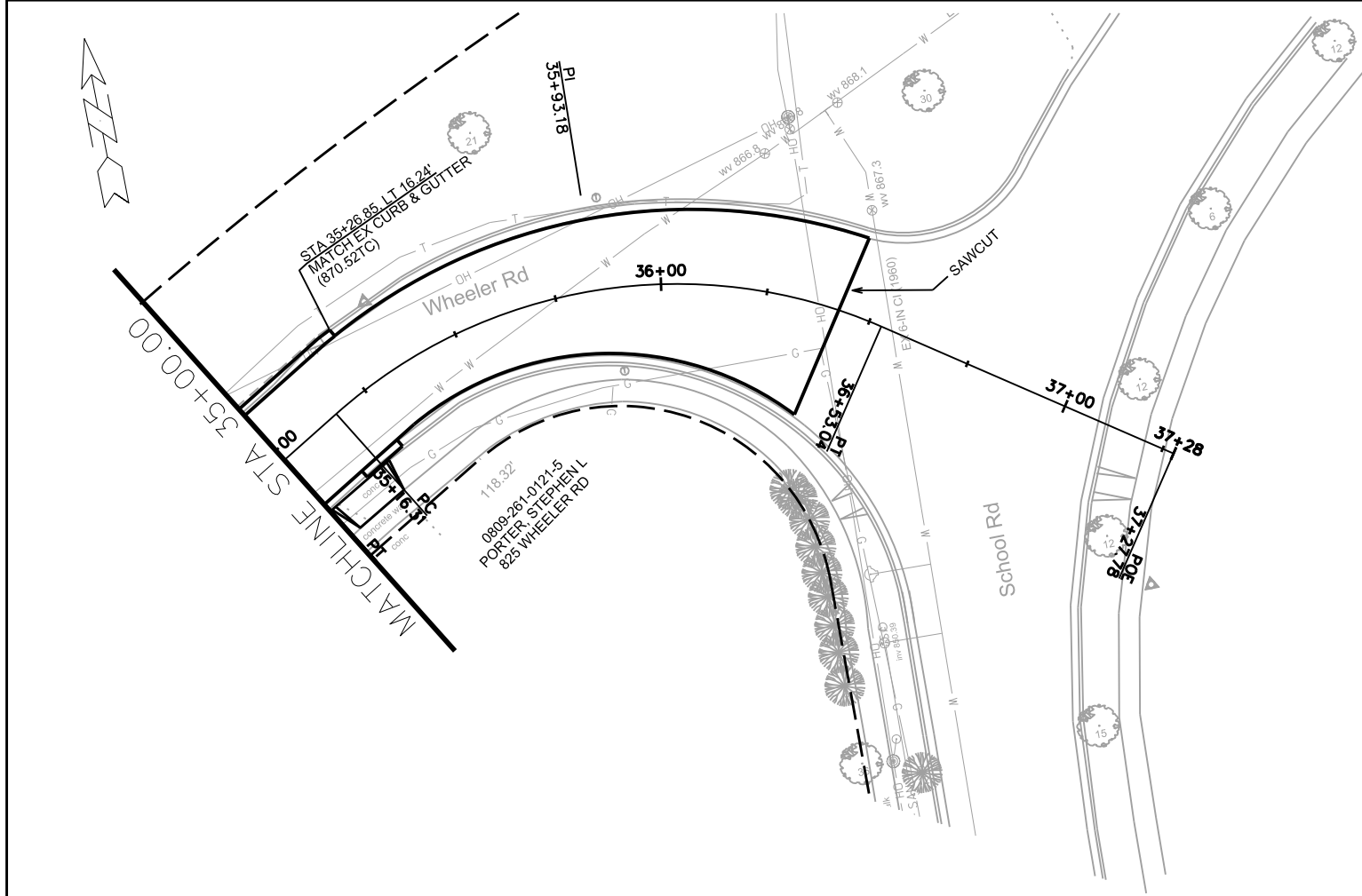


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____

PLOT NAME: _____

PLOT SCALE: _____

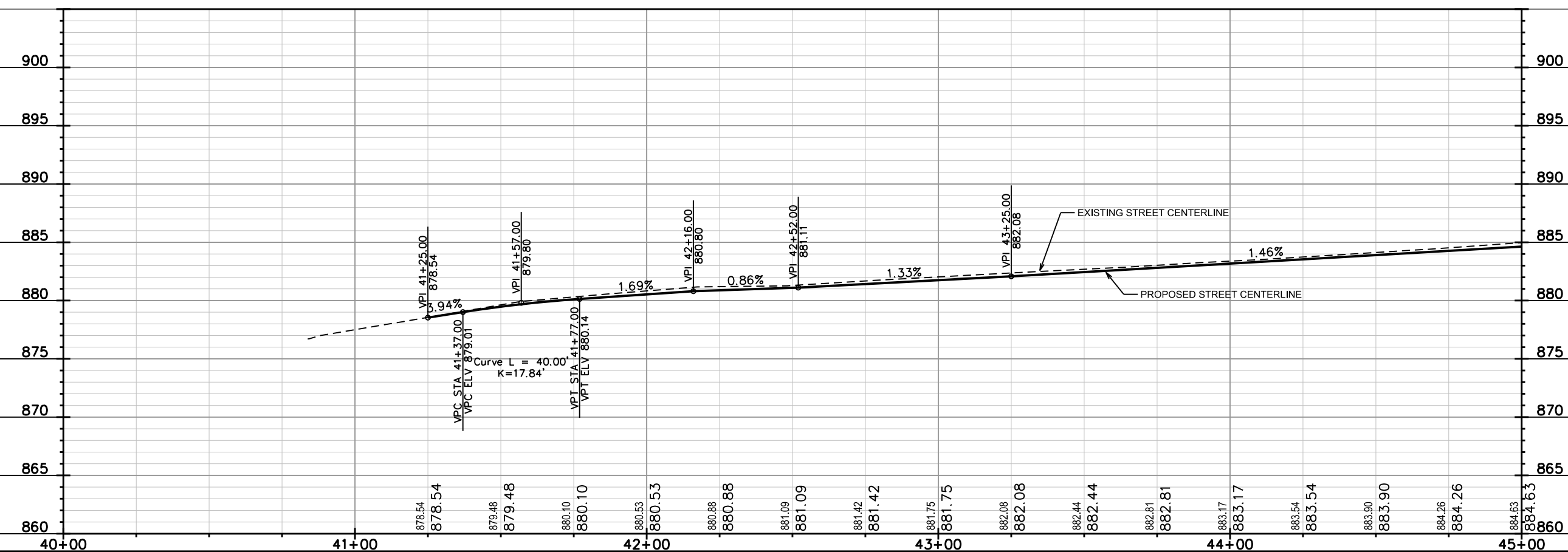
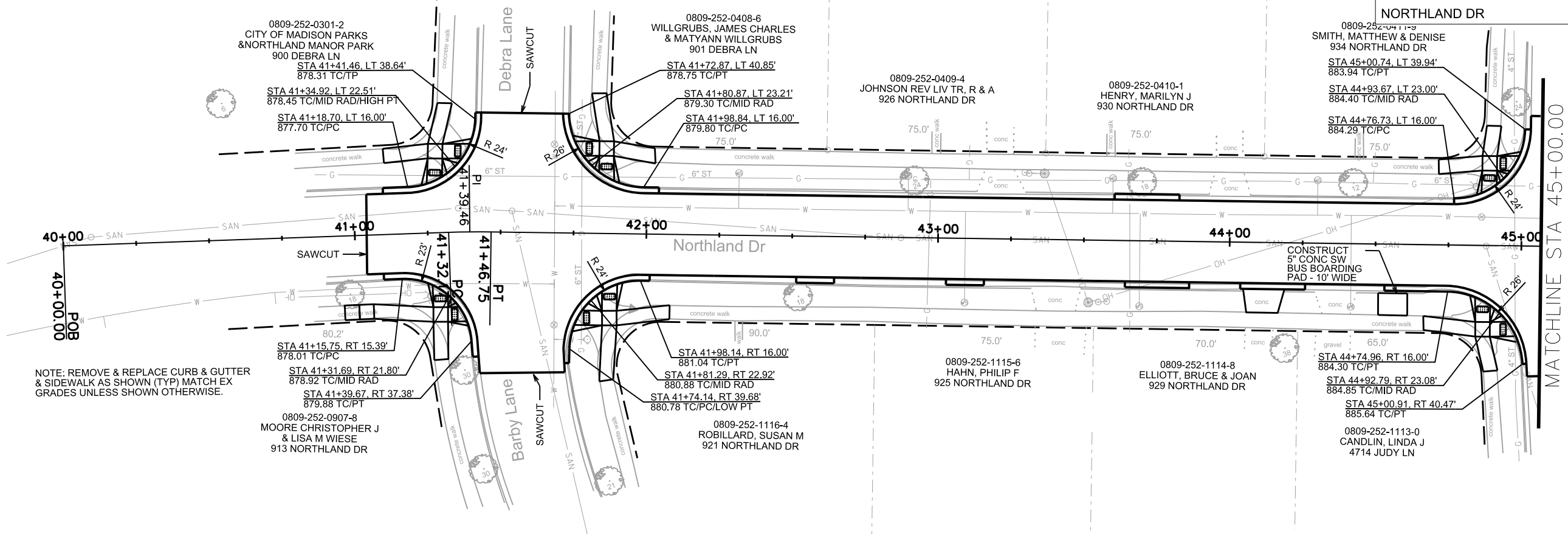


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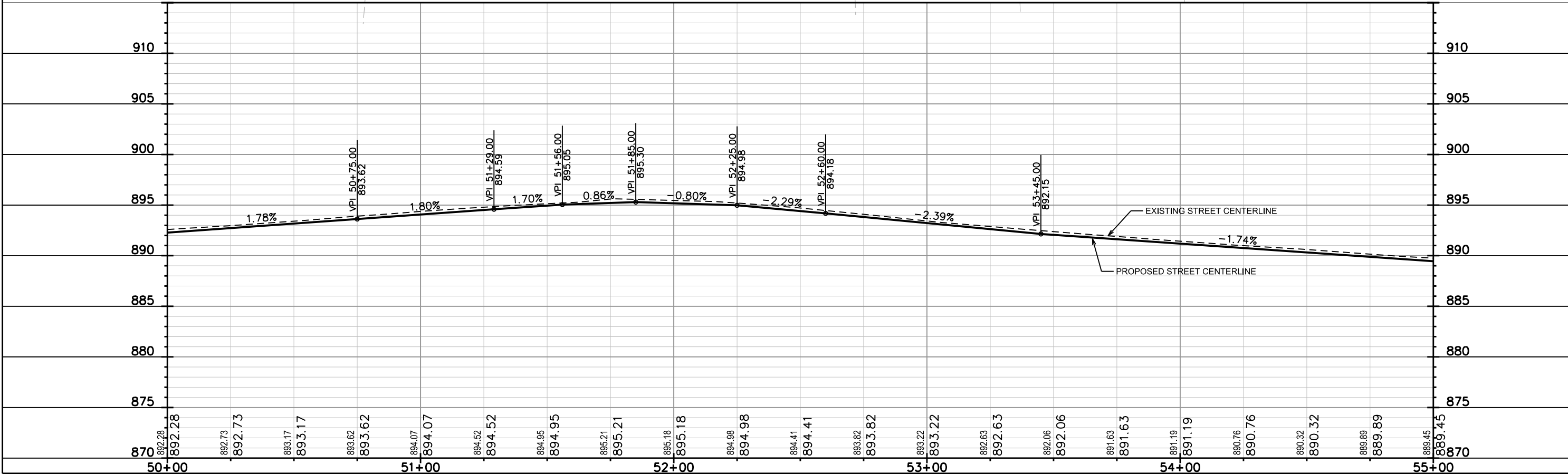
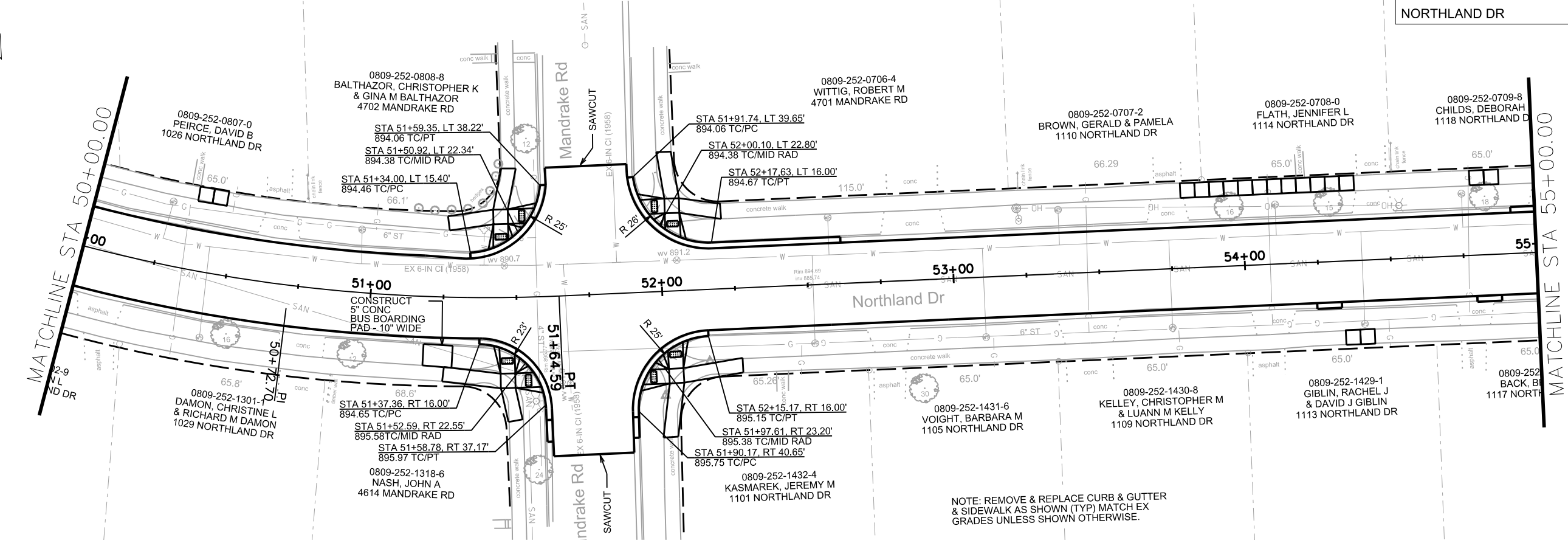
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PLOT SCALE: _____

NORTHLAND DR CITY OF MADISON



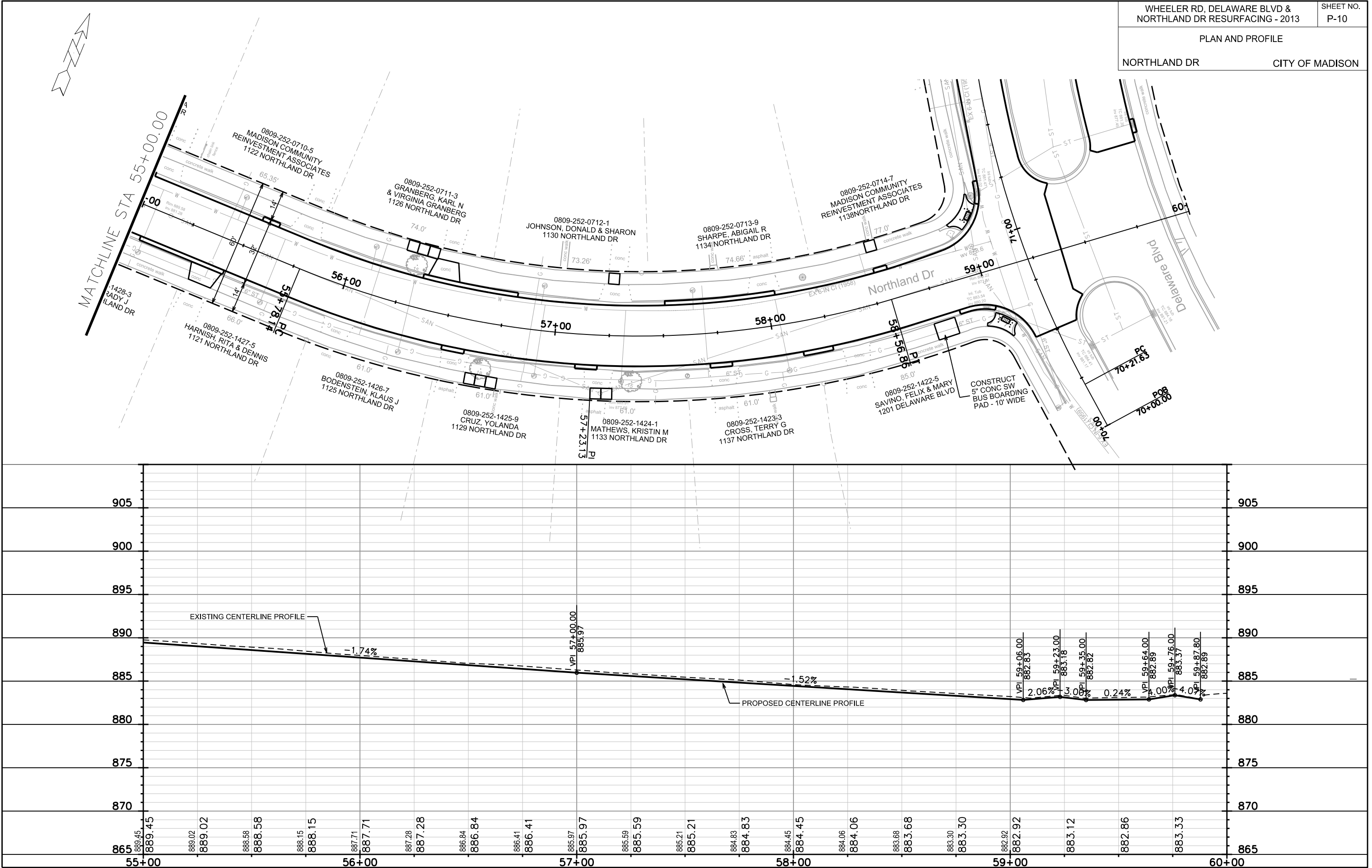


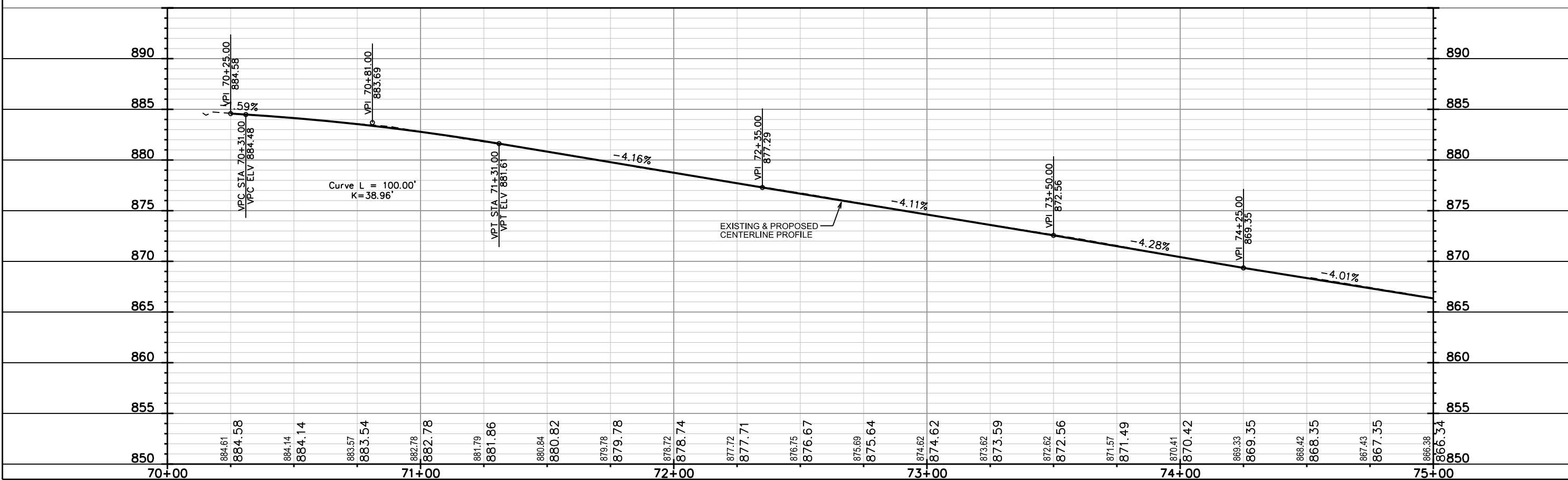
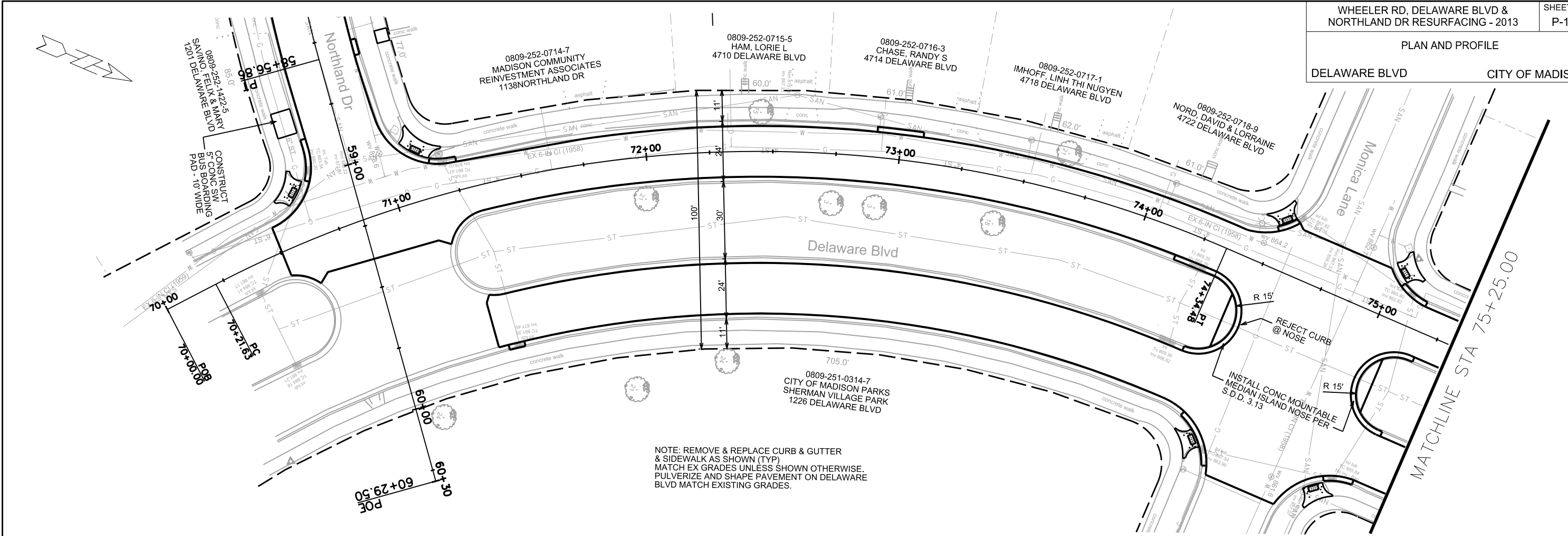
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION





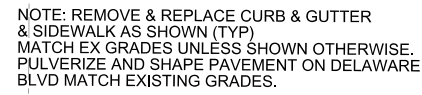
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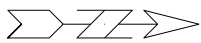
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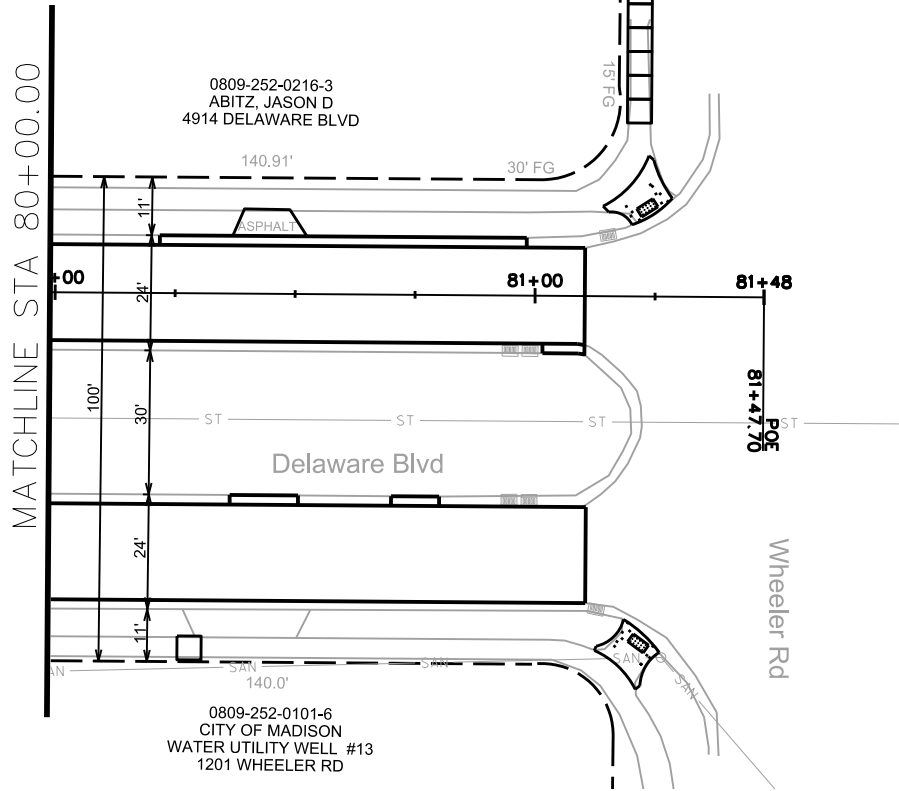
PLOT SCALE: _____

DELAWARE BLVD CITY OF MADISON





NOTE: REMOVE & REPLACE CURB & GUTTER
& SIDEWALK AS SHOWN (TYP)
MATCH EX GRADES UNLESS SHOWN OTHERWISE.
PULVERIZE AND SHAPE PAVEMENT ON DELAWARE
BLVD. MATCH EXISTING GRADES



20

15

10

5

0

-5

-10

-15

-20

80+00

81+00

81+48

20

15

10

5

0

-5

-10

-15

-20

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0809-261-0201-5
CITY OF MADISON PARKS
CHEROKEE MARSH SCHOOL ROAD
802 WHEELER RD

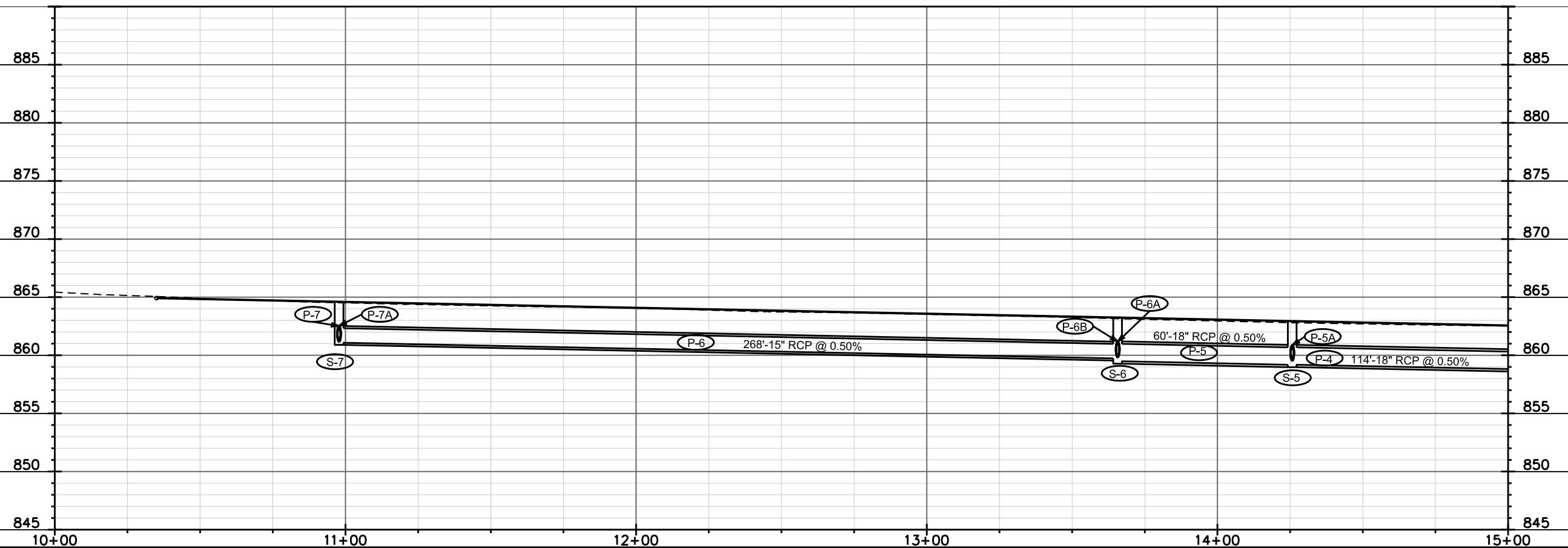
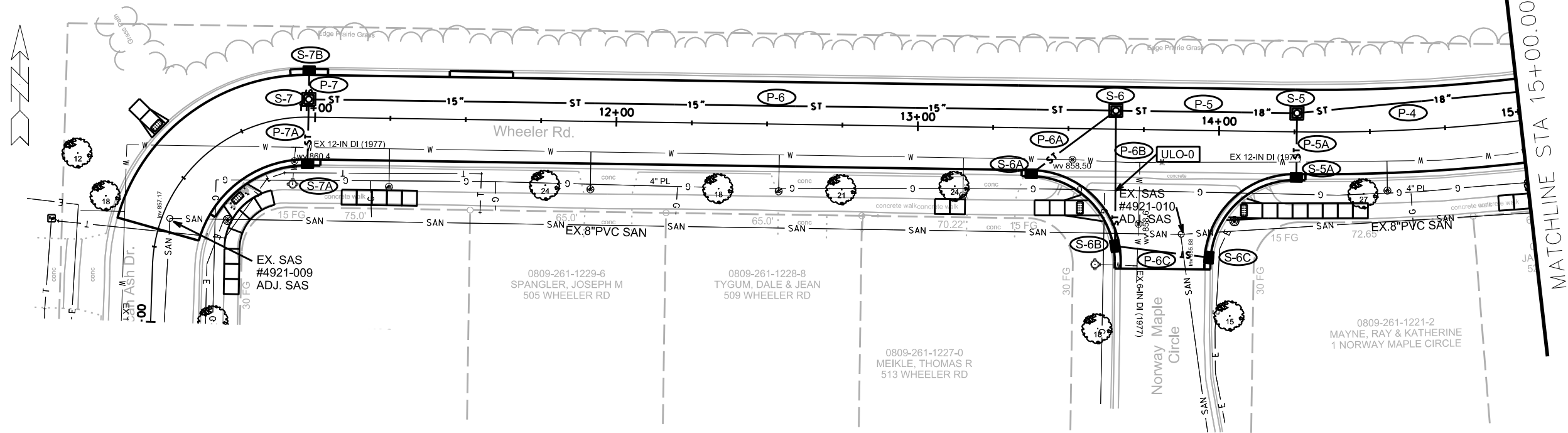
WHEELER RD, DELAWARE BLVD &
NORTHLAND DR RESURFACING - 2013

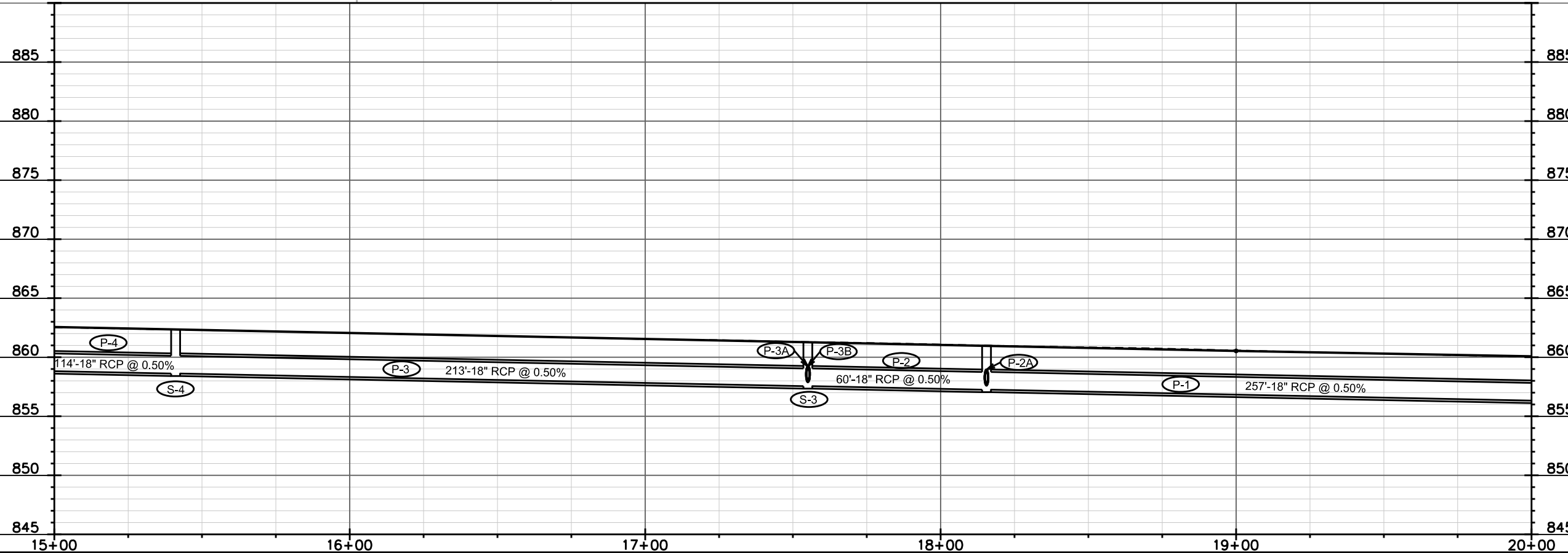
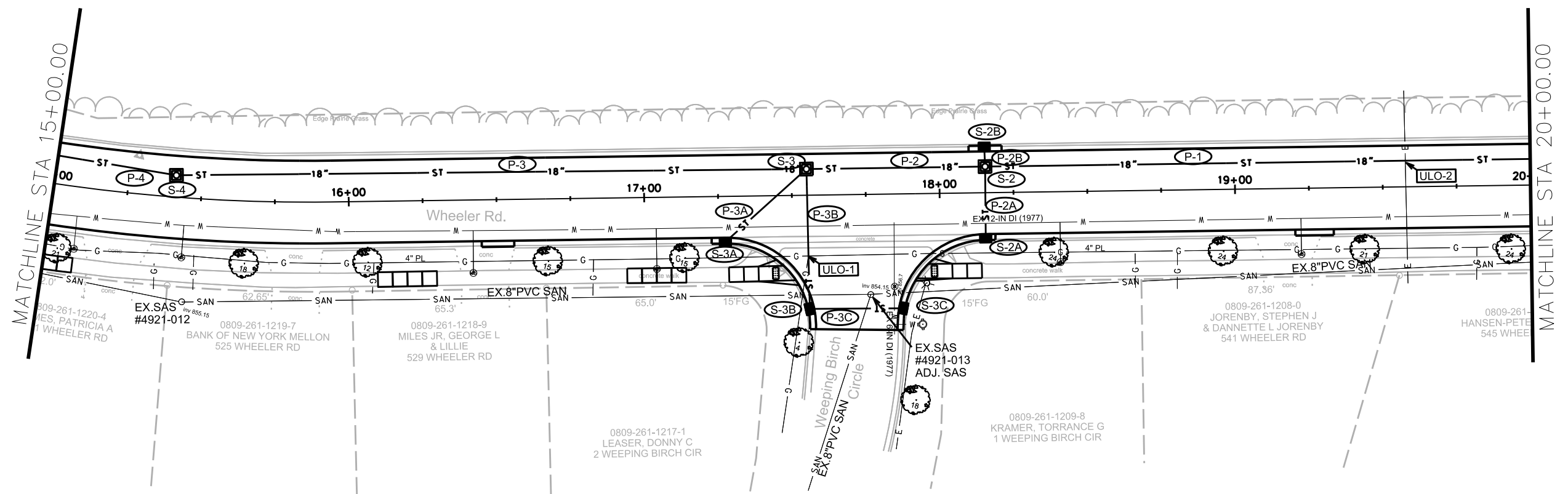
SHEET NO.
U-1

UTILITIES
PLAN AND PROFILE

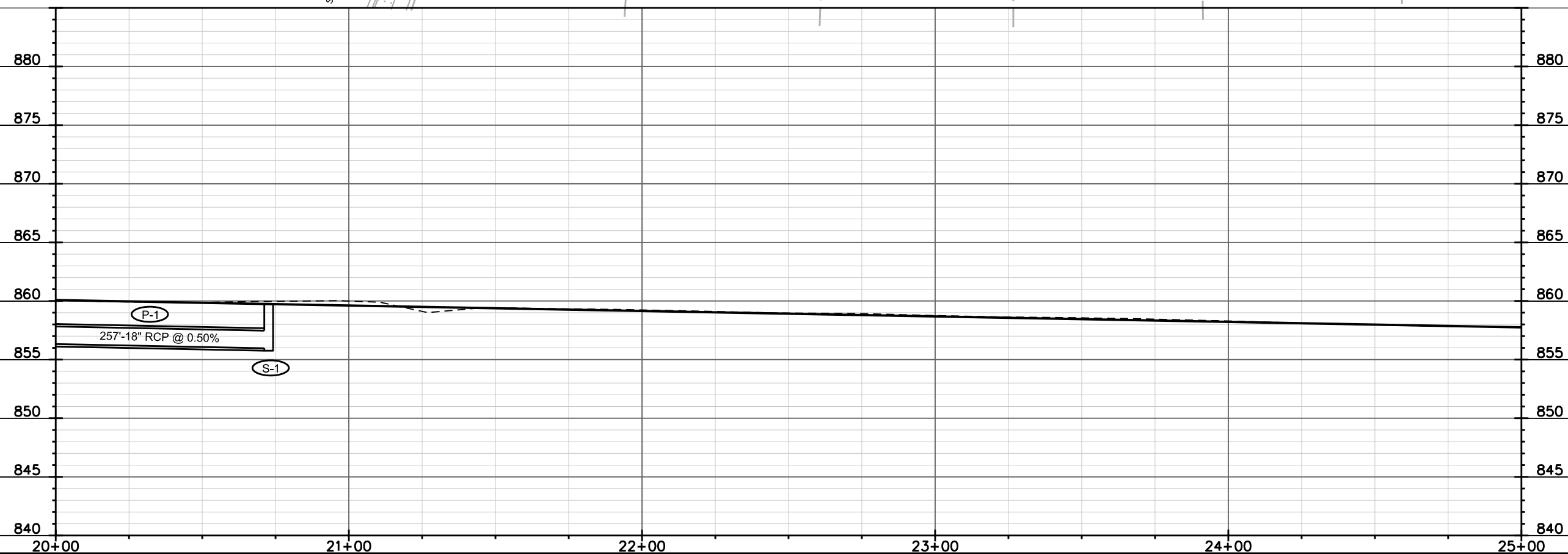
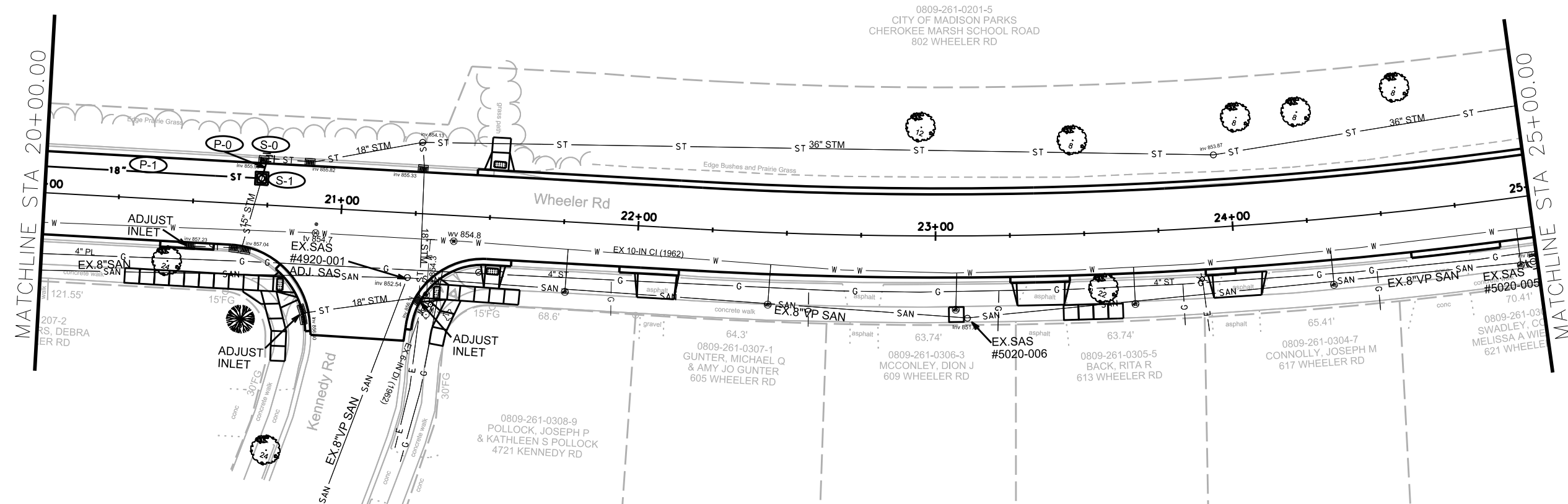
WHEELER ROAD

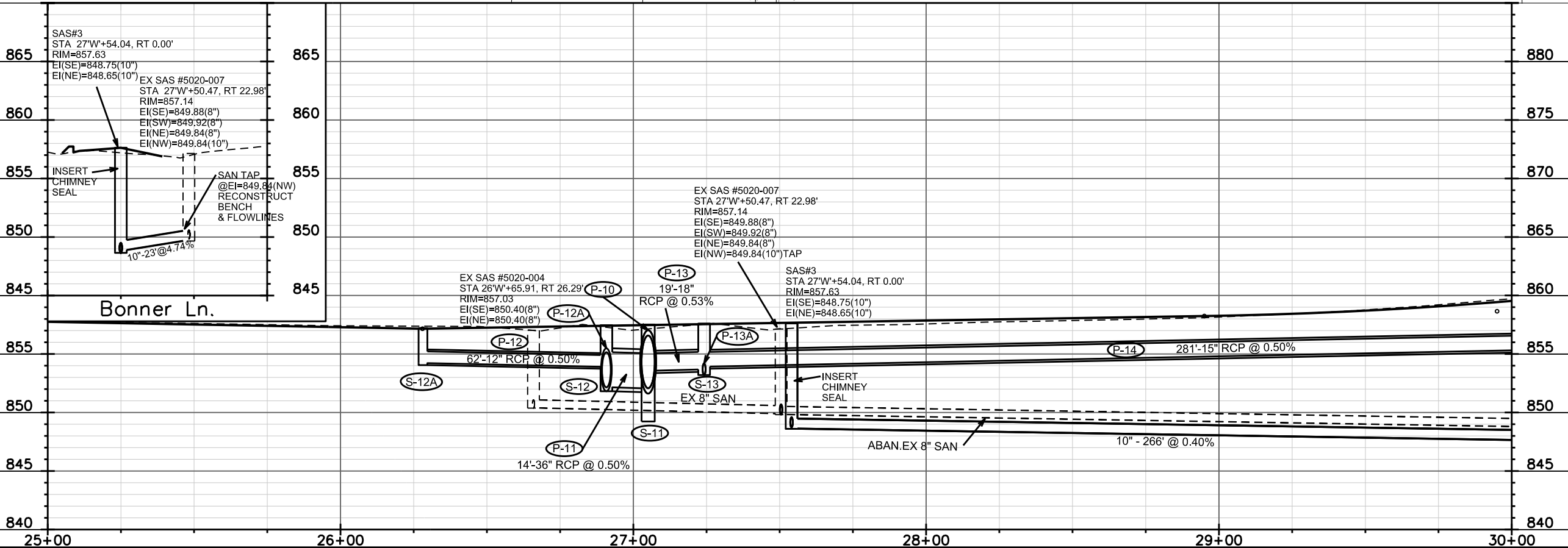
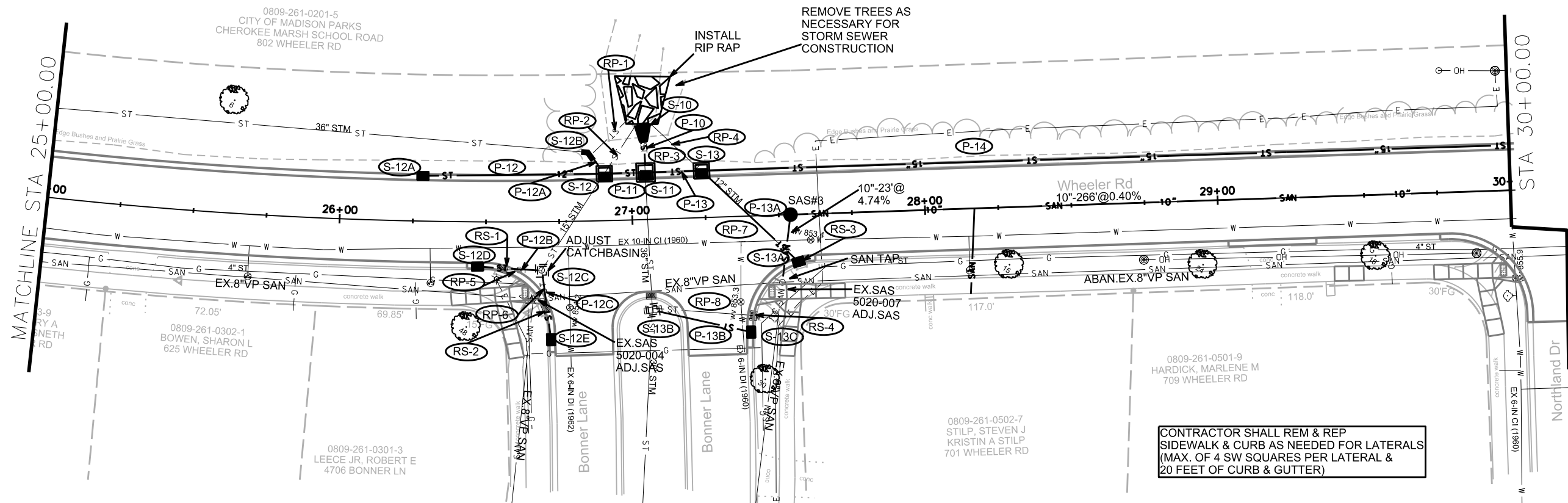
CITY OF MADISON





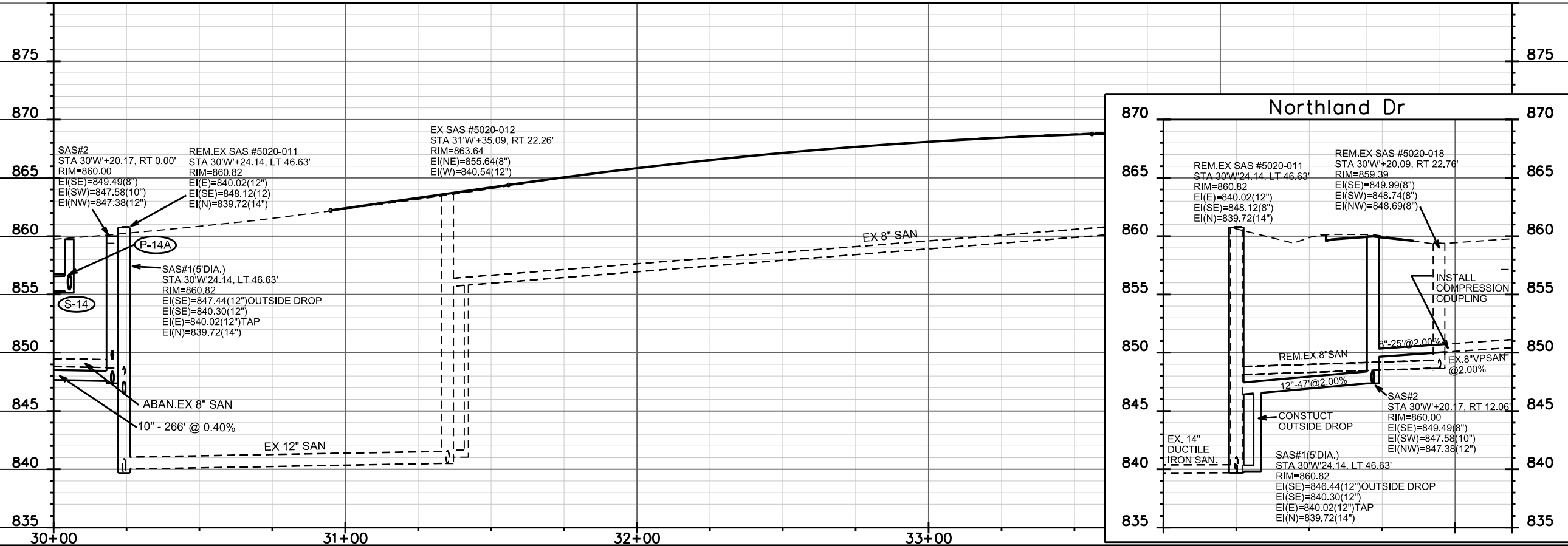
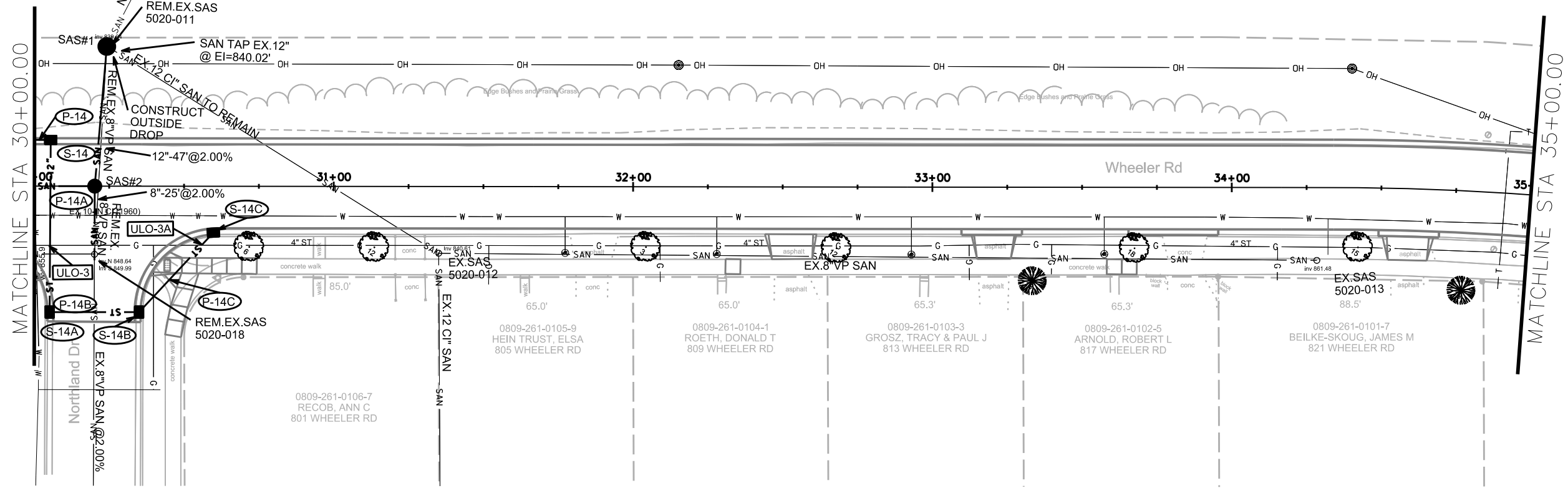
UTILITIES PLAN AND PROFILE
WHEELER ROAD CITY OF MADISON





CONTRACTOR SHALL REM & REP
SIDEWALK & CURB AS NEEDED FOR LATERALS
(MAX. OF 4 SW SQUARES PER LATERAL &
20 FEET OF CURB & GUTTER)

0809-261-0201-5
CITY OF MADISON PARKS
CHEROKEE MARSH SCHOOL ROAD
802 WHEELER RD

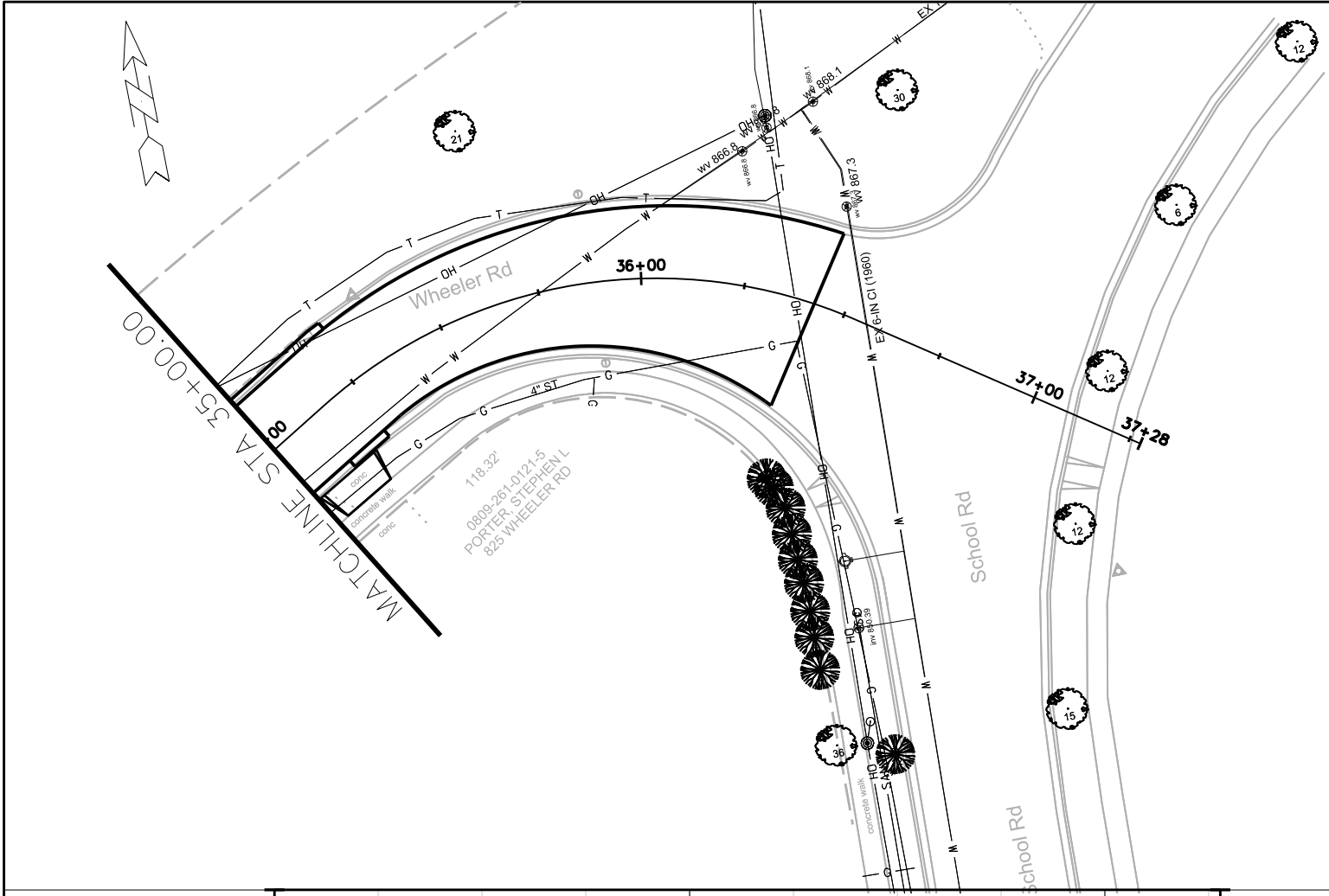


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

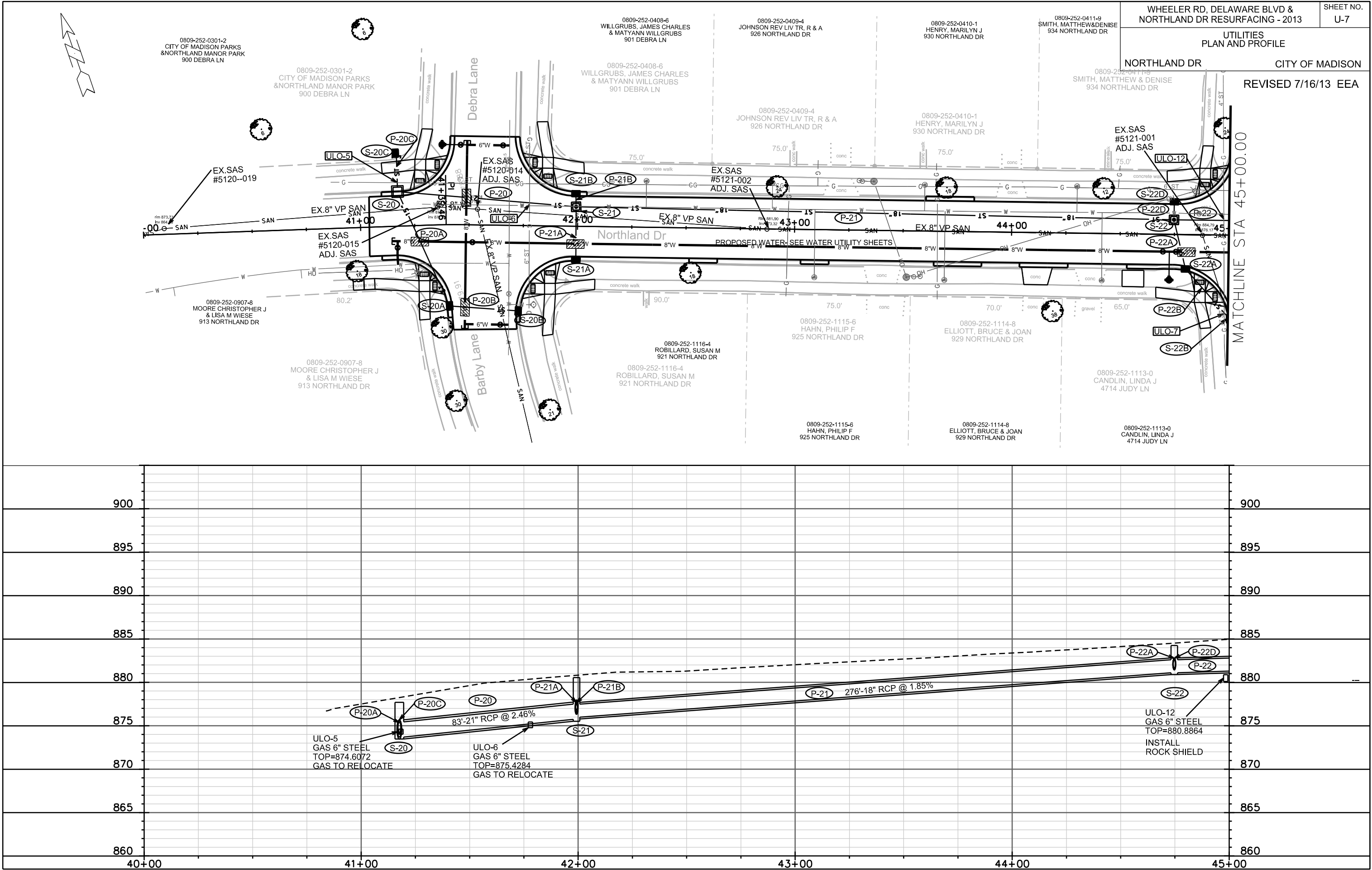


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REV. DATE: _____

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PLOT SCALE: _____

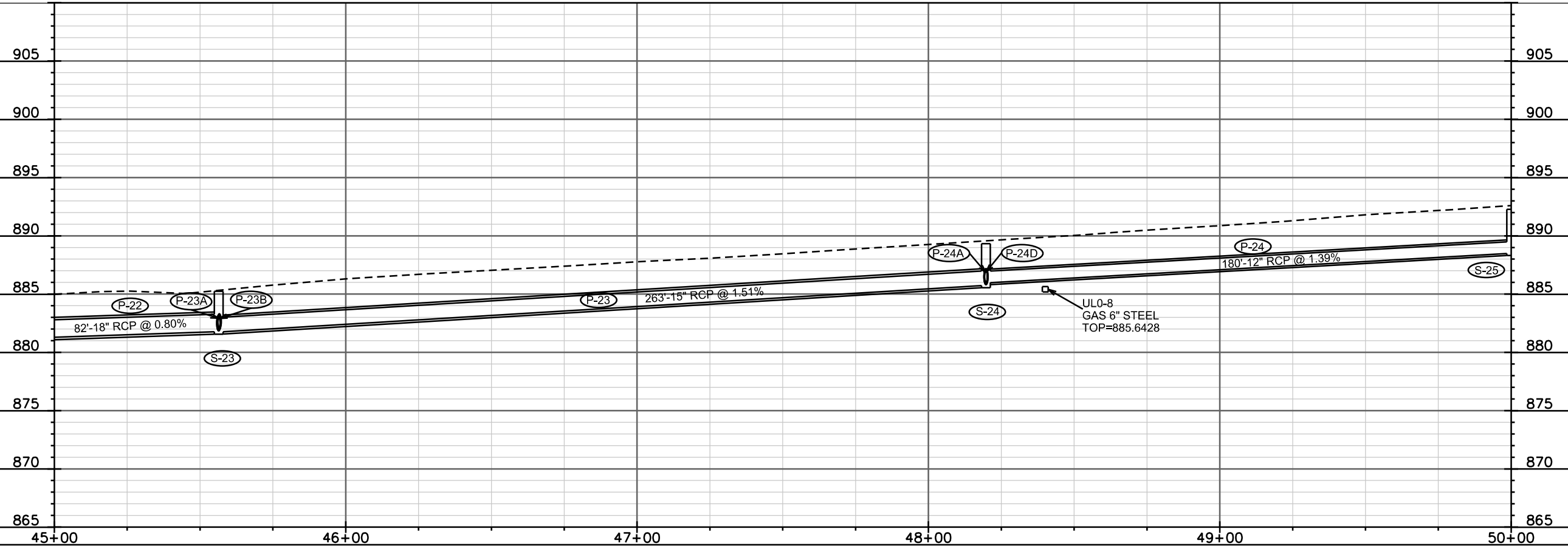
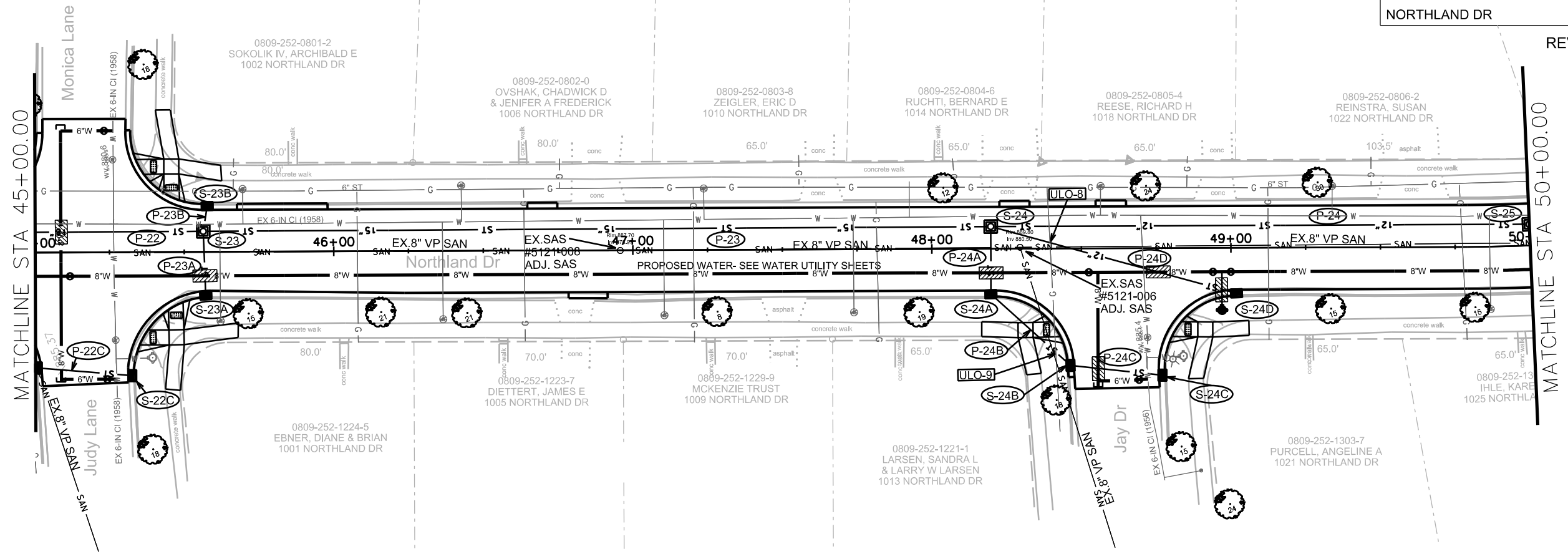


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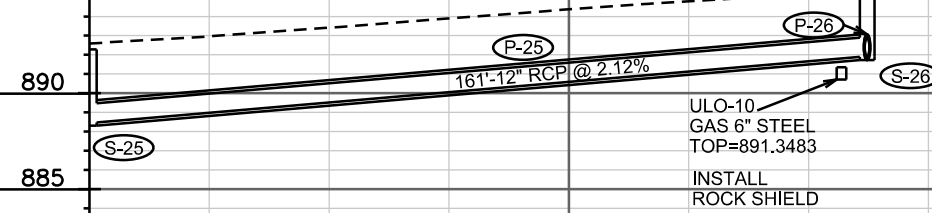
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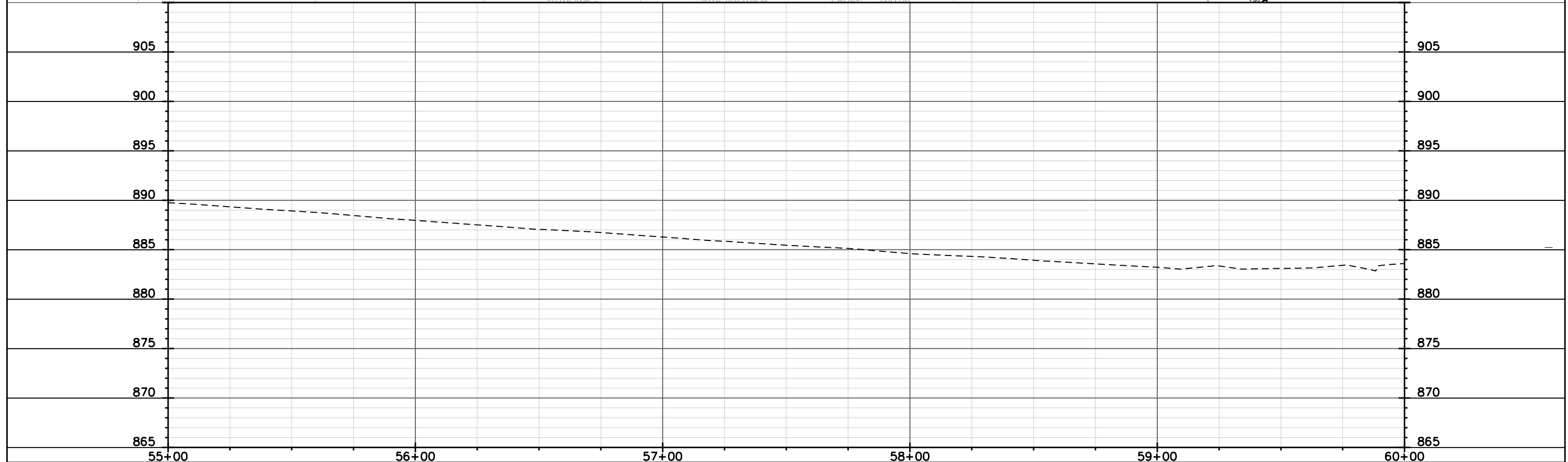
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



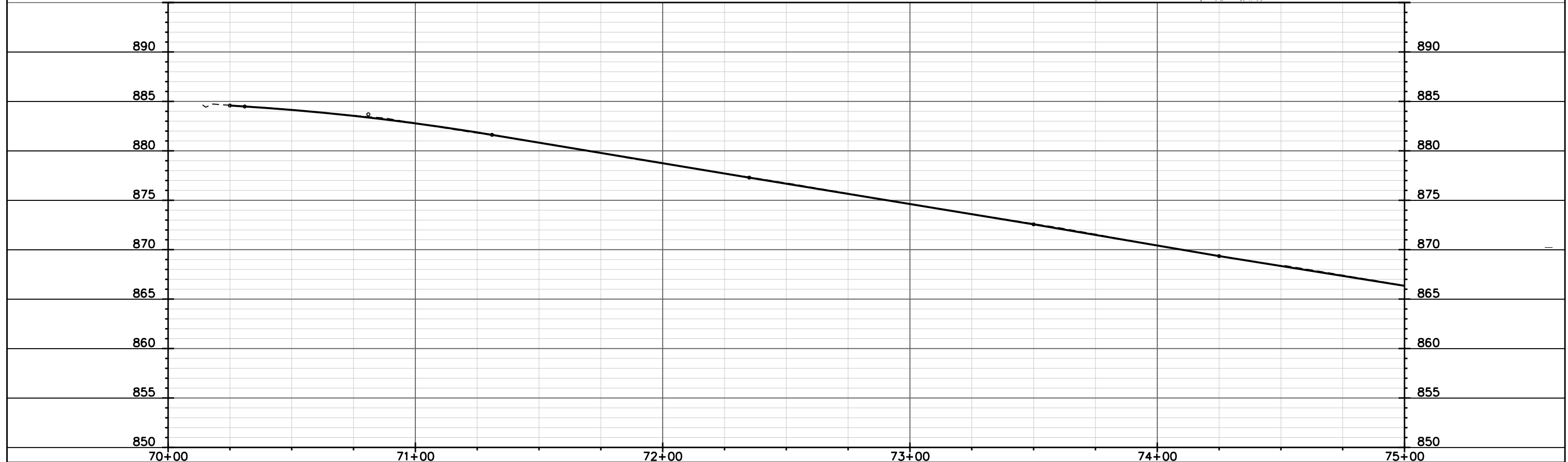
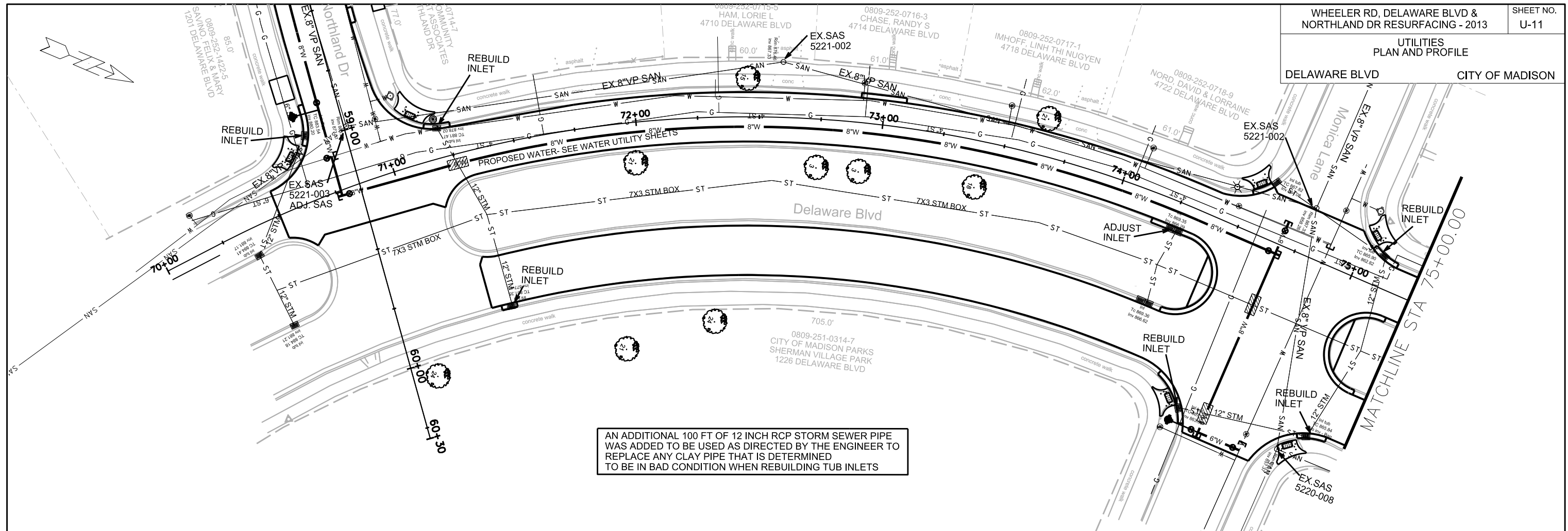
REVISÉD 7/16/13 EEA

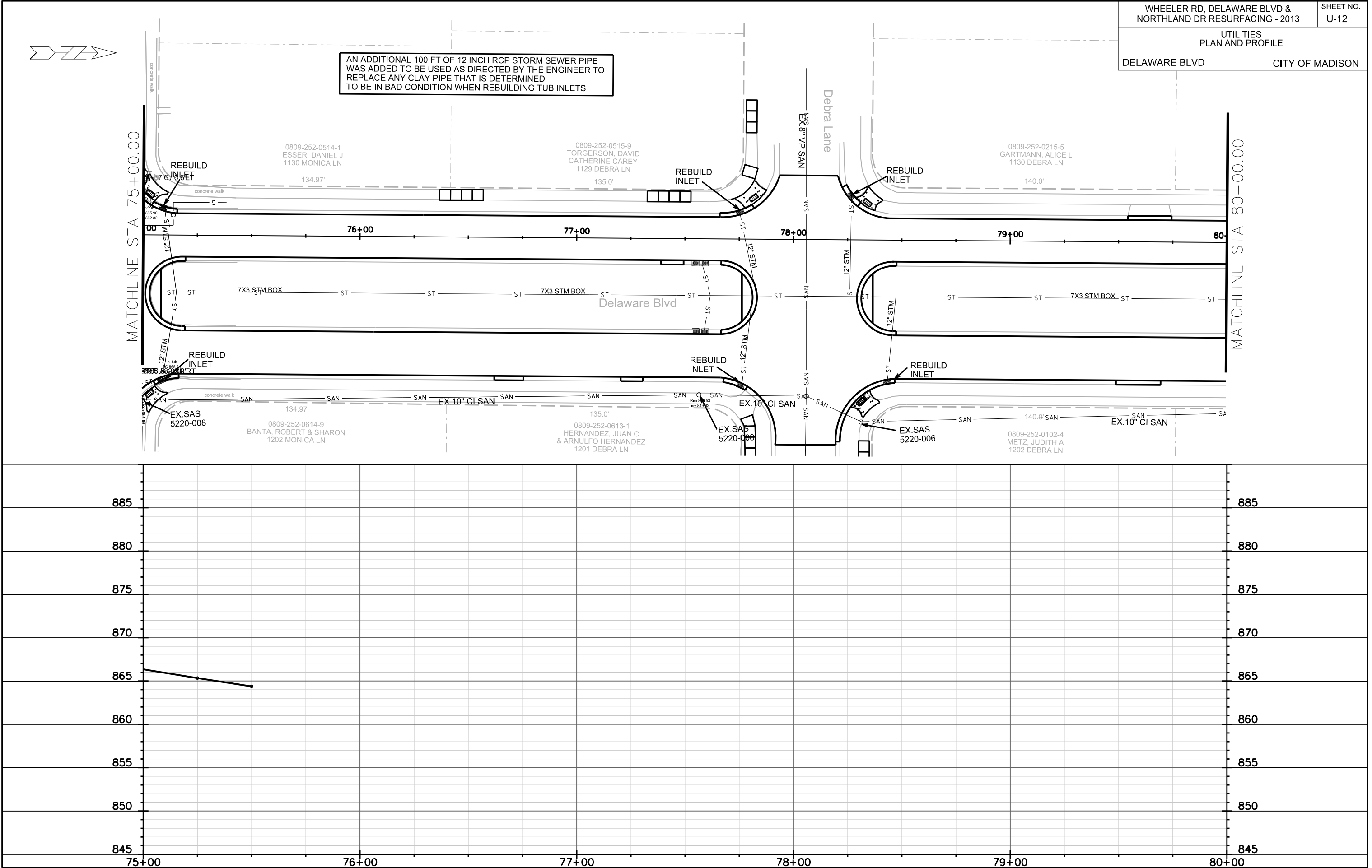


NORTHLAND DR CITY OF MADISON

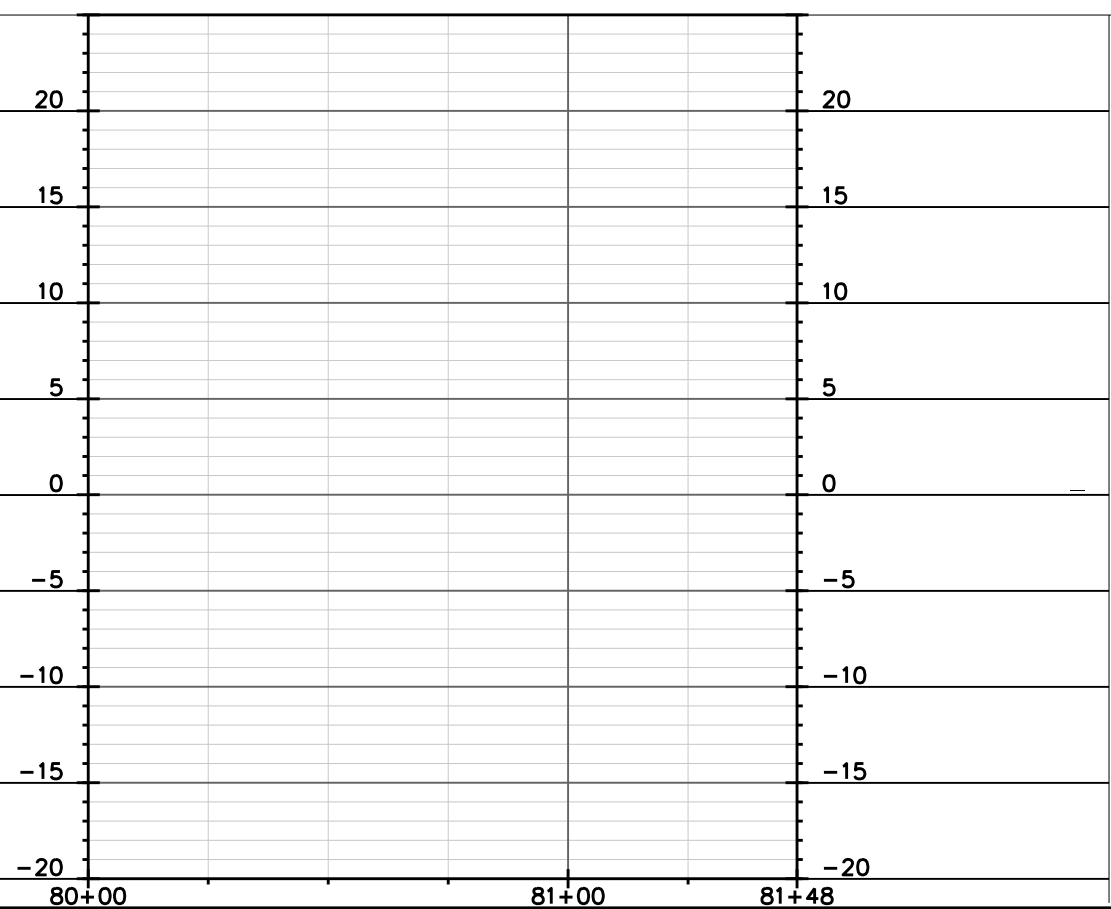
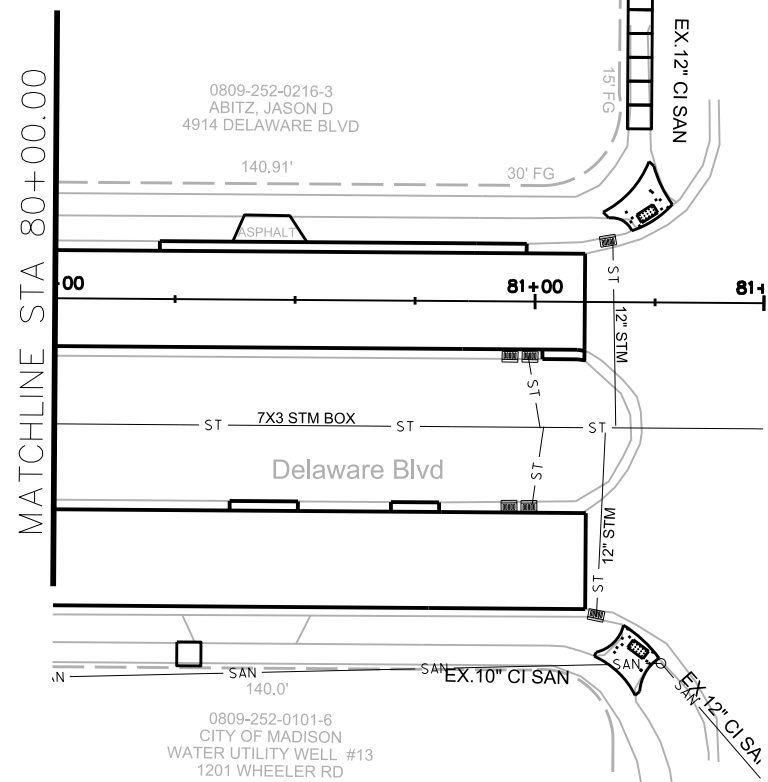


DELAWARE BLVD CITY OF MADISON





UTILITIES PLAN AND PROFILE	
DELAWARE BLVD	CITY OF MADISON



STORM SEWER SCHEDULE

ALIGNMENT CODES:

'WR' =WHEELER RD
'ND' =NORTHLAND DR

WHEELER RD, DELAWARE BLVD & NORTHLAND DR RESURFACING - 2013	SHEET NO. U-14
PROJECT NO. 53W1555	
WHEELER RD STORM SEWER SCHEDULE	CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-0	20'WR'+73.70	LT-14.30	STM TAP	-	855.93	-	TAP EX IN 4920-005
S-1	20'WR'+72.72	LT-9.00	3X3 SAS	859.74	855.97	3.77	FP; W/ R-1550-0054; (1)
S-2	18'WR'+15.28	LT-9.00	3X3 SAS	860.97	857.25	3.72	FP; W/ R-1550-0054
S-2A	18'WR'+15.28	RT-15.50	H INLET	861.01	857.87	3.14	W/ R-3067-7004-V
S-2B	18'WR'+15.28	LT-15.50	H INLET	861.11	857.79	3.32	W/ R-3067-7004-V
S-3	17'WR'+55.04	LT-9.00	3X3 SAS	861.27	857.55	3.72	FP; W/ R-1550-0054
S-3A	17'WR'+27.58	RT-15.50	H INLET	861.52	858.24	3.28	LP; W/ R-3067-7004-V
S-3B	17'WR'+55.60	RT-38.49	H INLET	861.76	858.29	3.47	W/ R-3067-7004-V
S-3C	17'WR'+87.20	RT-38.49	H INLET	861.59	858.45	3.14	W/ R-3067-7004-V
S-4	15'WR'+41.00	LT-7.00	3X3 SAS	862.36	858.62	3.74	FP; W/ R-1550-0054
S-5	14'WR'+25.72	LT-6.00	3X3 SAS	862.94	859.19	3.75	FP; W/ R-1550-0054
S-5A	14'WR'+25.72	RT-15.50	H INLET	863.12	859.80	3.32	W/ R-3067-7004-V
S-6	13'WR'+65.75	LT-6.00	3X3 SAS	863.25	859.49	3.76	FP; W/ R-1550-0054
S-6A	13'WR'+37.98	RT-15.50	H INLET	863.37	860.17	3.20	LP; W/ R-3067-7004-V
S-6B	13'WR'+65.75	RT-38.80	H INLET	863.76	860.22	3.54	W/ R-3067-7004-V
S-6C	13'WR'+97.50	RT-42.00	H INLET	863.78	860.38	3.40	W/ R-3067-7004-V
S-7	10'WR'+97.76	LT-6.00	3X3 SAS	864.60	861.08	3.52	W/ R-1550-0054
S-7A	10'WR'+97.76	RT-15.50	H INLET	864.63	861.44	3.19	W/ R-3067-7004-V
S-7B	10'WR'+97.76	LT-15.50	H INLET	864.67	861.38	3.29	W/ R-3067-7004-V
S-10	27'WR'+05.00	LT-31.00	54" RCP AE	-	852.00	-	W/ GATE
S-11	27'WR'+05.00	LT-15.50	6X6 CB	857.52	852.08	5.44	FP; W/ R-3067-7004-V; (2); (3); (4)
S-12	26'WR'+90.82	LT-15.50	4X4 SAS	857.46	852.15	5.31	FP; W/ R-1550-0054
S-12A	26'WR'+28.00	LT-15.50	H INLET	857.22	854.22	3.00	LP; W/ R-3067-7004-V
S-12B	26'WR'+86.08	LT-23.60	50 DEGREE RCP BEND	-	852.77	-	INSTALL SEWER MARKER BALL
S-12C	26'WR'+68.92	RT-16.70	STM TAP	-	853.40	-	TAP EX AS 5020-008
S-12D	26'WR'+47.08	RT-15.43	H INLET	856.75	853.51	3.24	LP; W/ R-3067-7004-V
S-12E	26'WR'+72.00	RT-40.38	H INLET	857.07	853.52	3.55	W/ R-3067-7004-V
S-13	27'WR'+24.51	LT-15.50	4X4 SAS	857.60	853.68	3.92	FP; W/ R-1550-0054
S-13A	27'WR'+56.46	RT-16.21	H INLET	856.95	853.43	3.52	LP; W/ R-3067-7004-V
S-13B	27'WR'+05.64	RT-30.69	STM TAP	-	853.07	-	TAP EX AS 5020-019
S-13C	27'WR'+39.53	RT-37.00	H INLET	857.29	853.89	3.40	W/ R-3067-7004-V
S-14	30'WR'+05.40	LT-15.50	H INLET	859.74	855.33	4.41	W/ R-3067-7004-V
S-14A	30'WR'+04.90	RT-41.99	H INLET	859.72	856.48	3.24	W/ R-3067-7004-V
S-14B	30'WR'+35.05	RT-41.99	H INLET	860.30	856.90	3.40	LP; W/ R-3067-7004-V
S-14C	30'WR'+59.90	RT-15.50	H INLET	860.90	857.50	3.40	W/ R-3067-7004-V

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-0	13'WR'+65.75	RT-20.00	GAS	-
ULO-1	17'WR'+55.35	RT-20.24	GAS	-
ULO-2	19'WR'+57.50	LT-9.00	ELEC	-
ULO-3	30'WR'+04.90	RT-20.00	GAS	-
ULO-3A	30'WR'+56.00	RT-19.63	GAS	-
ULO-4	30'WR'+39.83	RT-37.00	GAS	-

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-0	S-0	S-1	7	855.93	855.97	0.57%	18"	RCP	-
P-1	S-1	S-2	257	855.97	857.25	0.50%	18"	RCP	-
P-2	S-2	S-3	60	857.25	857.55	0.50%	18"	RCP	-
P-2A	S-2	S-2A	24	857.75	857.87	0.50%	12"	RCP	-
P-2B	S-2	S-2B	7	857.75	857.79	0.57%	12"	RCP	-
P-3	S-3	S-4	213	857.55	858.62	0.50%	18"	RCP	-
P-3A	S-3	S-3A	37	858.05	858.24	0.51%	12"	RCP	-
P-3B	S-3	S-3B	47	858.05	858.29	0.51%	12"	RCP	-
P-3C	S-3B	S-3C	32	858.29	858.45	0.50%	12"	RCP	-
P-4	S-4	S-5	114	858.62	859.19	0.50%	18"	RCP	-
P-5	S-5	S-6	60	859.19	859.49	0.50%	18"	RCP	-
P-5A	S-5	S-5A	21	859.69	859.80	0.52%	12"	RCP	-
P-6	S-6	S-7	268	859.74	861.08	0.50%	15"	RCP	-
P-6A	S-6	S-6A	35	859.99	860.17	0.51%	12"	RCP	-
P-6B	S-6	S-6B	45	859.99	860.22	0.51%	12"	RCP	-
P-6C	S-6B	S-6C	31	860.22	860.38	0.52%	12"	RCP	-
P-7	S-7	S-7B	10	861.33	861.38	0.50%	12"	RCP	-
P-7A	S-7	S-7A	21	861.33	861.44	0.52%	12"	RCP	-
P-10	S-10	S-11	15	852.00	852.08	0.53%	43"X68"	RCP	-
P-11	S-11	S-12	14	852.08	852.15	0.50%	36"	RCP	NCM
P-12	S-12	S-12A	62	853.91	854.22	0.50%	12"	RCP	NCM
P-12A	S-12	S-12B	9	852.15	852.77	6.89%	36"	RCP	-
P-12B	S-12C	S-12D	22	853.40	853.51	0.50%	12"	RCP	-
P-12C	S-12C	S-12E	24	853.40	853.52	0.50%	12"	RCP	-
P-13	S-11	S-13	19	853.58	853.68	0.53%	18"	RCP	-
P-13A	S-13	S-13A	45	853.20	853.43	0.51%	12"	RCP	NCM
P-13B	S-13B	S-13C	34	853.07	853.89	2.41%	12"	RCP	-
P-14	S-13	S-14	281	853.93	855.33	0.50%	15"	RCP	-
P-14A	S-14	S-14A	57	855.58	856.48	1.58%	12"	RCP	-
P-14B	S-14A	S-14B	30	856.48	856.90	1.40%	12"	RCP	-
P-14C	S-14B	S-14C	36	856.90	857.50	1.67%	12"	RCP	-

SPECIFIC NOTES

- (1) RECONNECT EX 15" STM TO SOUTH
(2) W/ 3FT SUMP BELOW LISTED INVERT
(3) POUR PIPE WALL INTO ROOF
(4) SDD 5.7.4 MODIFIED TO USE ONE (1) R-3067-7004 CASTING

STANDARD NOTES:

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

- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
-TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
-ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
-SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
-ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'WR' =WHEELER RD
'ND' =NORTHLAND DR

+ REVISED 7/16/13 EEA

WHEELER RD, DELAWARE BLVD & NORTHLAND DR RESURFACING - 2013	SHEET NO. U-15
PROJECT NO. 53W1555	
NORTHLAND DR	
STORM SEWER SCHEDULE	CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-20	41'ND'+18.00	LT-15.50	4X4 SAS	877.70	873.70	4.00	FP; W/ R-3067-7004-V
S-20A	41'ND'+40.17	RT-37.38	H INLET	879.88	876.48	3.40	W/ R-3067-7004-V
S-20B	41'ND'+73.64	RT-39.68	H INLET	880.78	877.38	3.40	LP; W/ R-3067-7004-V
S-20C	41'ND'+17.00	LT-34.00	PIPE PLUG	-	873.61	-	-
S-21	41'ND'+99.00	LT-9.00	3X3 SAS	880.54	875.74	4.80	W/ R-1550-0054
S-21A	41'ND'+98.14	RT-15.50	H INLET	881.04	877.44	3.60	W/ R-3067-7004-V
S-21B	41'ND'+98.84	LT-15.50	H INLET	879.80	876.52	3.28	W/ R-3067-7004-V
+ S-22	44''ND'+75.00	LT-7.00	3X3 SAS	884.25	881.10	3.15	FP; W/ R-1550-0054
+ S-22A	44'ND'+80.00	RT-16.10	H INLET	884.47	881.72	2.75	FP; W/ R-3067-7004-V
S-22B	45'ND'+01.41	RT-38.70	H INLET	885.64	882.24	3.40	W/ R-3067-7004-V
S-22C	45'ND'+32.47	RT-41.23	H INLET	885.95	882.40	3.55	W/ R-3067-7004-V
+ S-22D	44'ND'+75.00	LT-15.50	H INLET	884.29	881.64	2.65	FP; W/ R-3067-7004-V
+ S-23	45'ND'+56.46	LT-7.00	3X3 SAS	885.24	881.76	3.48	FP; W/ R-1550-0054
S-23A	45'ND'+56.46	RT-14.55	H INLET	885.89	882.49	3.40	W/ R-3067-7004-V
+ S-23B	45'ND'+58.00	LT-15.50	H INLET	884.90	882.05	2.85	FP; W/ R-3067-7004-V
+ S-24	48'ND'+19.73	LT-7.00	3X3 SAS	889.32	885.73	3.59	FP; W/ R-1550-0054
+ S-24A	48'ND'+19.73	RT-15.50	H INLET	889.23	886.10	3.13	FP; W/ R-3067-7004-V
S-24B	48'ND'+45.83	RT-38.72	H INLET	890.00	886.60	3.40	W/ R-3067-7004-V
S-24C	48'ND'+77.28	RT-42.36	H INLET	890.55	887.15	3.40	LP; W/ R-3067-7004-V
S-24D	49'ND'+01.76	RT-15.50	H INLET	890.76	887.16	3.60	LP; W/ R-3067-7004-V
S-25	50'ND'+00.00	LT-7.00	3X3 SAS	892.28	888.48	3.80	W/ R-1550-0054
+ S-26	51'ND'+62.00	CL	3X3 SAS	895.10	891.90	3.20	W/ R-1550-0054
S-26A	51'ND'+59.30	RT-44.00	H INLET	895.99	892.22	3.77	W/ R-3067-7004-V
S-26B	51'ND'+89.39	RT-44.00	H INLET	895.77	892.37	3.40	W/ R-3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-20	S-20	S-21	83	873.70	875.74	2.46%	21"	RCP	-
+ P-20A	S-20	S-20A	58	874.20	876.48	3.93%	15"	RCP	-
+ P-20B	S-20A	S-20B	32	876.73	877.38	2.03%	12"	RCP	-
P-20C	S-20C	S-20	18	873.61	873.70	0.50%	21"	STORM	-
+ P-21	S-21	S-22	276	875.99	881.10	1.85%	18"	RCP	-
P-21A	S-21	S-21A	24	876.49	877.44	3.96%	12"	RCP	-
P-21B	S-21	S-21B	6	876.49	876.52	0.50%	12"	RCP	-
+ P-22	S-22	S-23	82	881.10	881.76	0.80%	18"	RCP	NCM
+ P-22A	S-22	S-22A	23	881.60	881.72	0.52%	12"	RCP	-
+ P-22B	S-22A	S-22B	31	881.72	882.24	1.68%	12"	RCP	-
P-22C	S-22B	S-22C	32	882.24	882.40	0.50%	12"	RCP	-
+ P-22D	S-22	S-22D	8	881.60	881.64	0.50%	12"	RCP	-
+ P-23	S-23	S-24	263	881.76	885.73	1.51%	15"	RCP	-
+ P-23A	S-23	S-23A	21	882.01	882.49	2.29%	12"	RCP	-
+ P-23B	S-23	S-23B	8	882.01	882.05	0.50%	12"	RCP	-
+ P-24	S-24	S-25	180	885.98	888.48	1.39%	12"	RCP	-
+ P-24A	S-24	S-24A	23	885.98	886.10	0.52%	12"	RCP	-
+ P-24B	S-24A	S-24B	36	886.10	886.60	1.39%	12"	RCP	-
P-24C	S-24B	S-24C	31	886.60	887.15	1.77%	12"	RCP	-
+ P-24D	S-24	S-24D	85	885.98	887.16	1.39%	12"	RCP	-
+ P-25	S-25	S-26	161	888.48	891.90	2.12%	12"	RCP	-
+ P-26	S-26	S-26A	44	891.90	892.22	0.73%	12"	RCP	-
P-26A	S-26A	S-26B	30	892.22	892.37	0.50%	12"	RCP	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
+ ULO-5	41'ND'+18.00	LT-20.00	GAS	6" STEEL TOP=874.6072; GAS TO RELOCATE
+ ULO-6	41'ND'+77.67	LT-10.68	GAS	6" STEEL TOP=875.4284; GAS TO RELOCATE
+ ULO-7	44'ND'+98.10	RT-36.30	GAS	6" STEEL TOP=881.7191; OK STORM OVER GAS
+ ULO-8	48'ND'+39.56	LT-2.20	GAS	6" STEEL TOP=885.6428; REVISED STORM TO GO OVER GAS
+ ULO-9	48'ND'+41.38	RT-35.16	GAS	6" STEEL TOP=886.0796; REVISED STORM TO GO OVER GAS
+ ULO-10	51'ND'+56.89	LT-1.63	GAS	6" STEEL TOP=891.3483; REVISED STORM TO GO OVER GAS
+ ULO-11	51'ND'+60.94	RT-18.60	GAS	6" STEEL TOP=891.6636; REVISED STORM TO GO OVER GAS
+ ULO-12	44'ND'+96.55	LT-6.76	GAS	6" STEEL TOP=880.8864; REVISED STORM TO GO OVER GAS

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP= HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.

SPECIFIC NOTES

- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

PLOT SCALE: _ _ _ _

PLOT NAME: _ _ _ _

REV. DATE: _ _ _ _

ORIGINATOR: CITY OF MADISON STREETS DIVISION

ALIGNMENT CODES:

'WR' =WHEELER RD
'ND' =NORTHLAND DR

WHEELER RD, DELAWARE BLVD &
NORTHLAND DR RESURFACING - 2013

SHEET NO.
U-16

PROJECT NO. 53W1555

STORM REMOVALS SCHEDULE

CITY OF MADISON

STORM REMOVALS SCHEDULE

STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES:
RS-1	IN 5020-001	26'WR'+55.44	RT-16.98	TUB	-
RS-2	IN 5020-002	26'WR'+69.65	RT-29.55	TUB	-
RS-3	IN 5020-004	27'WR'+56.52	RT-17.22	TUB	-
RS-4	IN 5020-003	27'WR'+40.78	RT-34.27	TUB	-

STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	S-12B	END	16	Y	36"	RCP	-
RP-2	S-12	END	19	Y	15"	RCP	-
RP-3	S-10	S-11	15	N	36"	RCP	-
RP-4	S-13	END	25	Y	12"	RCP	-
RP-5	S-12C	RS-1	14	N	12"	RCP	-
RP-6	S-12C	RS-2	13	N	12"	RCP	-
RP-7	S-13	S-13A	46	N	12"	RCP	-
RP-8	S-13B	RS-4	35	N	12"	RCP	WITHIN 3FT OF NEW PIPE TRENCH

SANITARY SCHEDULE

ALIGNMENT CODES:

'W'- Wheeler Road
'N'- Northland Drive
'D'- Delaware Boulevard

WHEELER RD, DELAWARE BLVD& NORTHLAND	SHEET NO.
RESURFACING -2013 PROJECT NO. 53W1355	U-17
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	30'W'+24.14	LT-46.63	860.82	839.72	21.10	5' DIA.,12" OUTSIDE DROP
SAS#2	30'W'+20.17	RT-0	860.00	847.38	12.62	
SAS#3	27'W'+54.04	RT-0	857.63	848.65	8.98	(1)

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
SAS#1	SAS#2	846.44	847.38	47	2.00%	12"	SDR-35	
SAS#2	EX.SAS 5020-018	849.49	849.99	25	2.00%	8"	SDR-35	
SAS#2	SAS#3	847.58	848.65	266	0.40%	10"	SDR-35	
SAS#3	EX.SAS 5020-007	848.75	849.84	23	4.74%	10"	SDR-35	

SANITARY SEWER PIPE REMOVAL & ABANDONMENTS

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	LENGTH Feet	PAID (Y/N)	SIZE (DIA in)	PIPE TYPE	NOTES
5020-011	5020-018	36.00	N	8"	VP	
5020-018	5020-007	42.00	Y	8"	VP	PIPE PLUGS

REMOVE SEWER ACCESS STRUCTURES

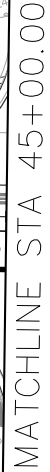
STRUCTURE	STATION	LOCATION (OFFSET)	RIM	EI	DEPTH	NOTES
5020-011	30'W'+24.14	LT-46.63	860.82	839.72	21.10	
5020-018	30'W'+20.09	RT-22.76	859.39	848.69	10.70	

ADJUST SANITARY STRUCTURES

STRUCTURE	STATION	LOCATION (OFFSET)
4921-009	10'W'+35.64	RT-2.54
4921-010	13'W'+87.93	RT-34.48
4921-013	17'W'+76.25	RT-33.94
4920-001	21'W'+23.37	RT-21.71
5020-004	26'W'+65.91	RT-26.29
5020-007	27'W'+50.47	RT-22.98
5120-015	41'N'+35.68	LT-8.19
5120-014	41'N'+53.83	LT-7.30
5121-002	42'N'+87.27	RT-.11
5121-001	44'N'+87.94	RT-.24
5121-008	46'N'+95.81	RT-.10
5121-006	48'N'+29.51	LT-.45
5121-004	51'N'+53.38	RT-26.76
5221-006	52'N'+50.40	RT-.23
5221-005	55'N'+13.89	RT-.10
5221-004	57'N'+21.90	RT-26.76
5221-003	58'N'+98.66	LT-1.07

NOTES:
(1) CHIMNEY SEAL REQUIRED

NORTHLAND DR CITY OF MADISON



INSULATION REQ'D AT STORM
SEWER CROSSINGS. 18-IN
CLEARANCE REQ'D UNDER, 6-IN
CLEARANCE REQ'D OVER (TYP.

— SEE UTILITY SHEETS FOR
SEWER INFORMATION

PROPOSED 8-IN WM

DATE: 4/26/2013

WATER PLAN AND PROFILE
PREPARED BY: ARW

CITY OF MADISON

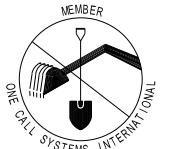
MATCHLINE STA 45+00.00

MATCHLINE STA 50+00.00

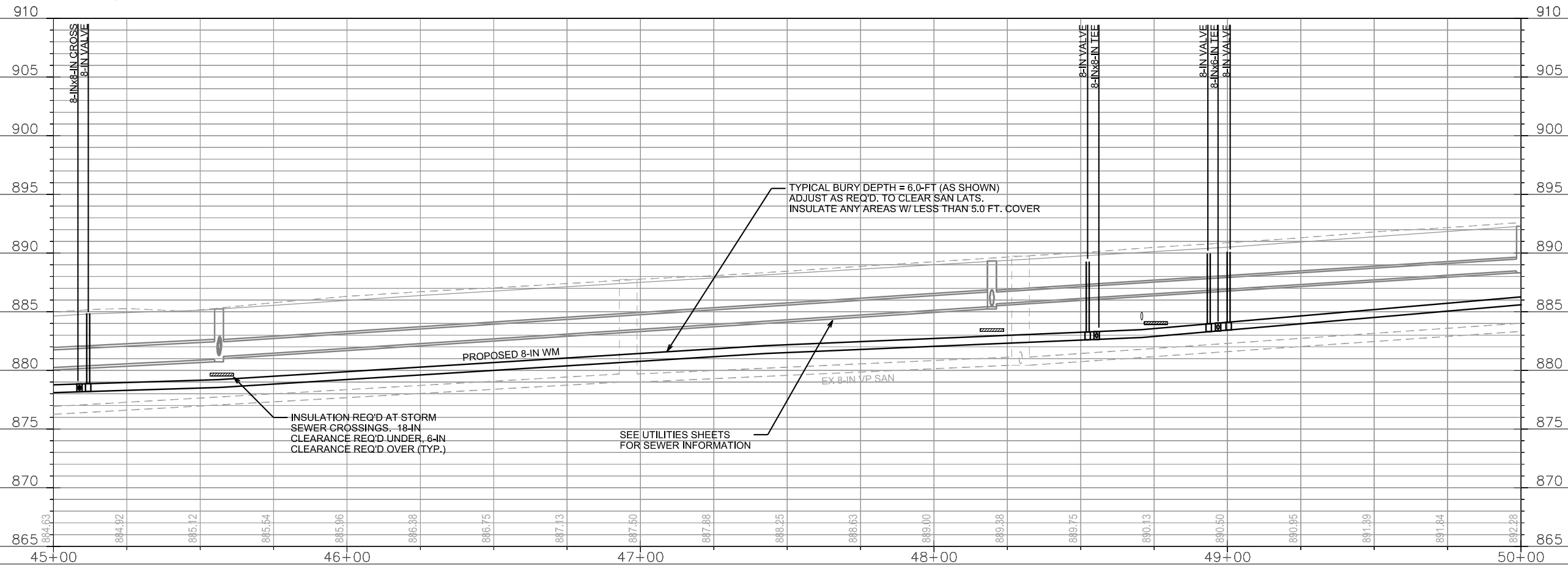
TO OBTAIN LOCATION OF
PARTICIPANTS' UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN

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

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



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



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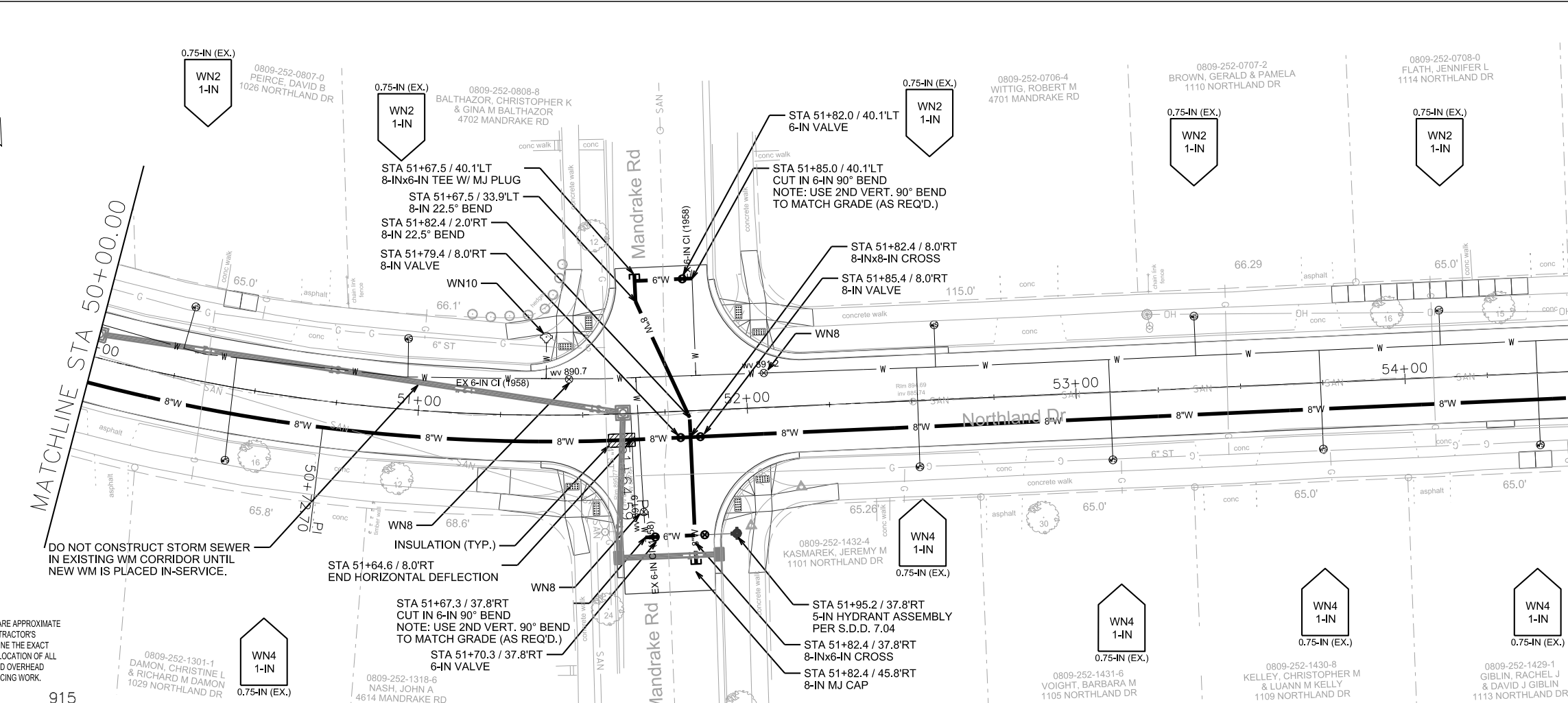
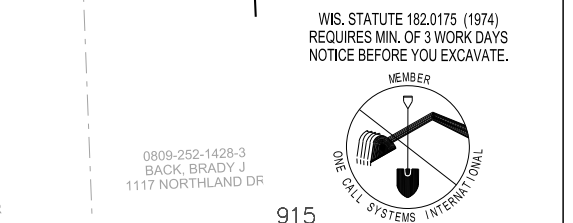
DATE: 4/26/2013

0809-252-0709-8
CHILDS, DEBORAH A
1118 NORTHLAND DR
0.75-IN (EX.)
WN2
1-IN

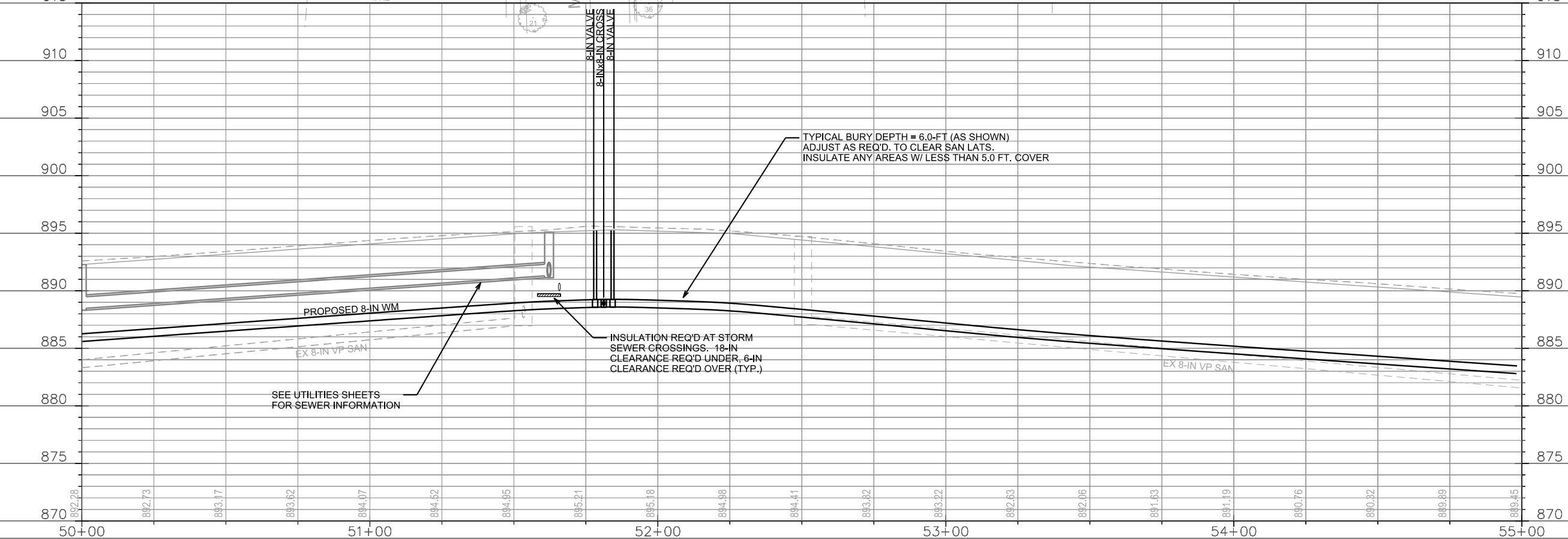
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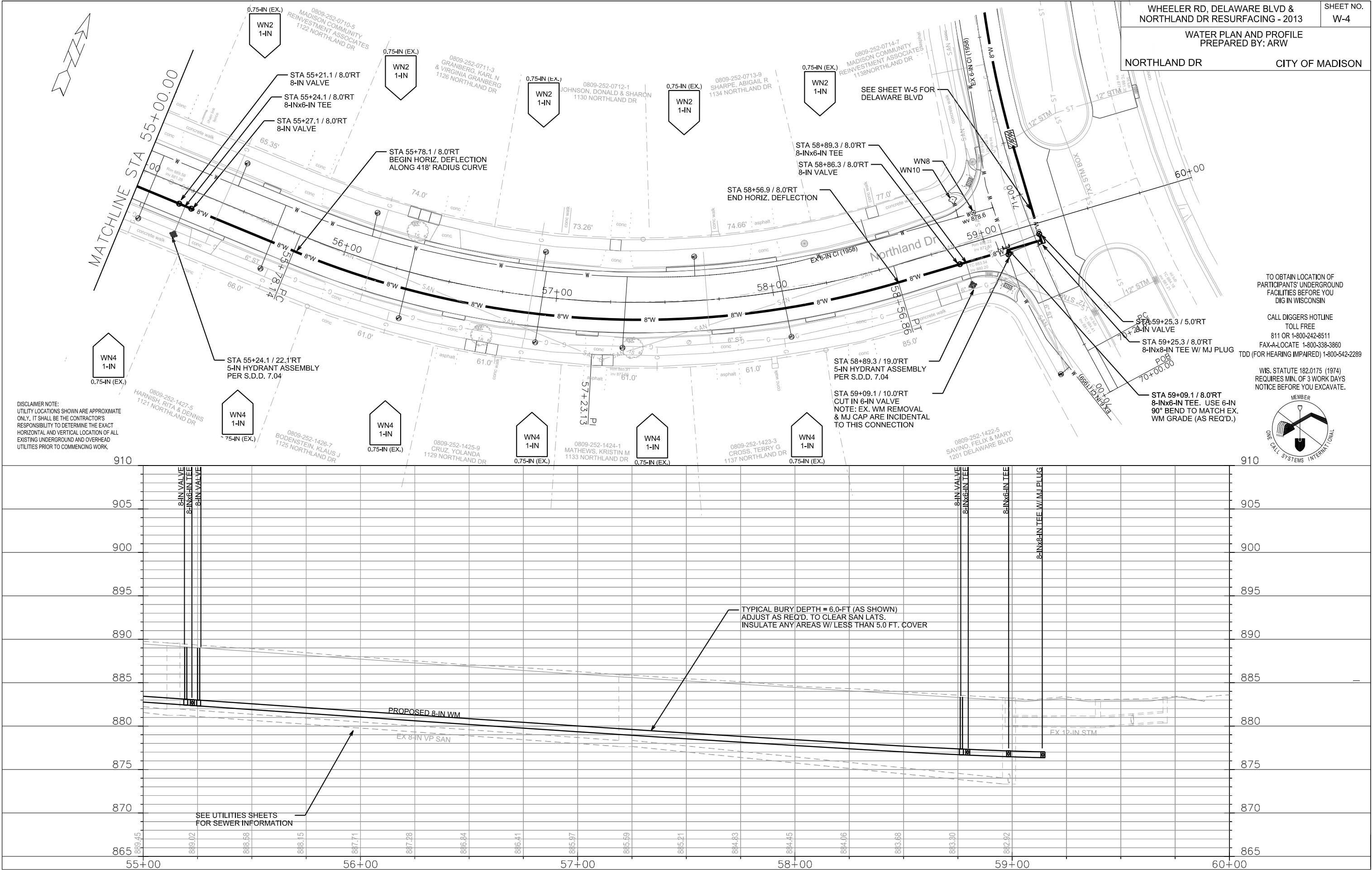


PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

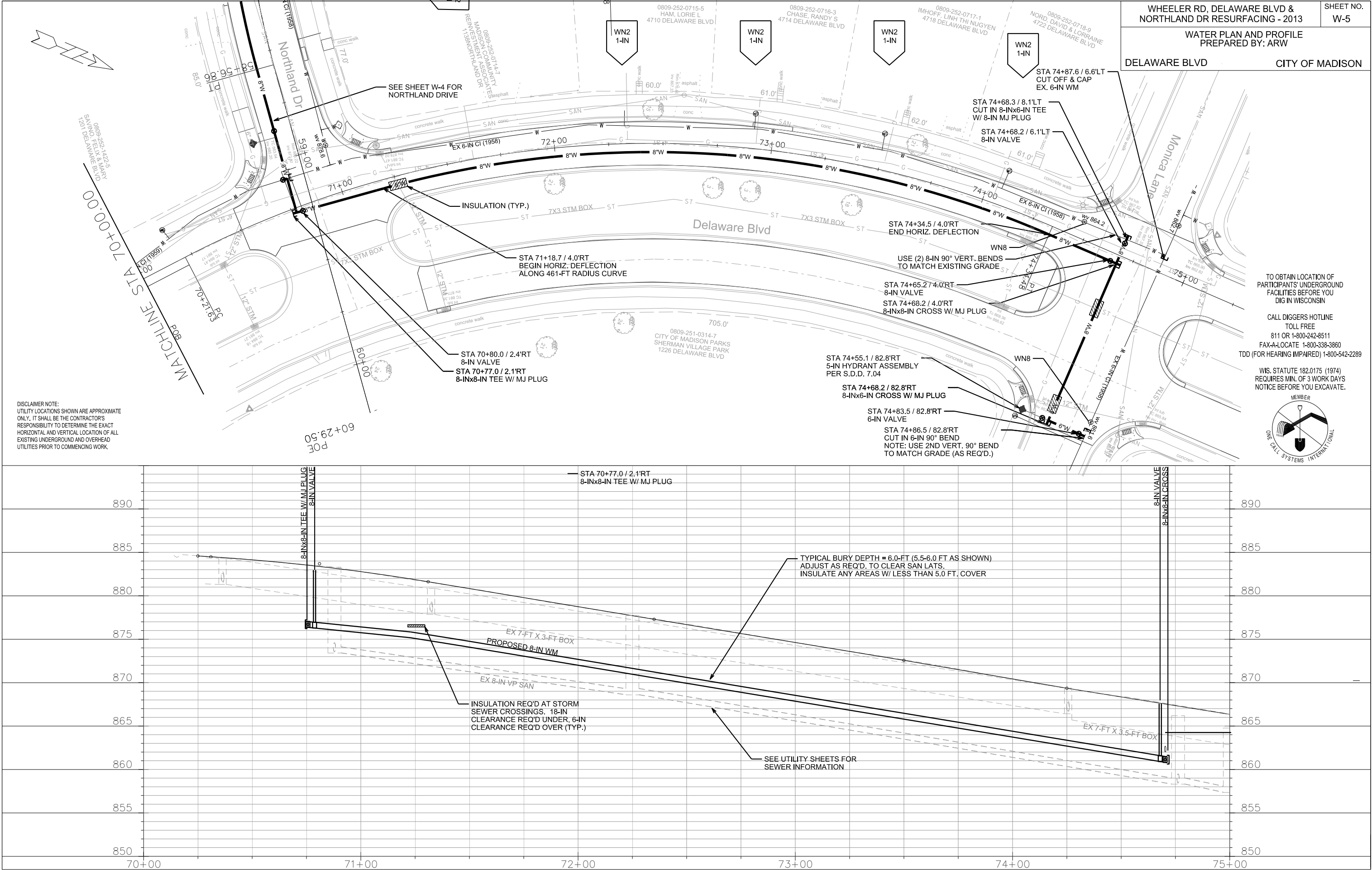


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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CITY OF MADISON

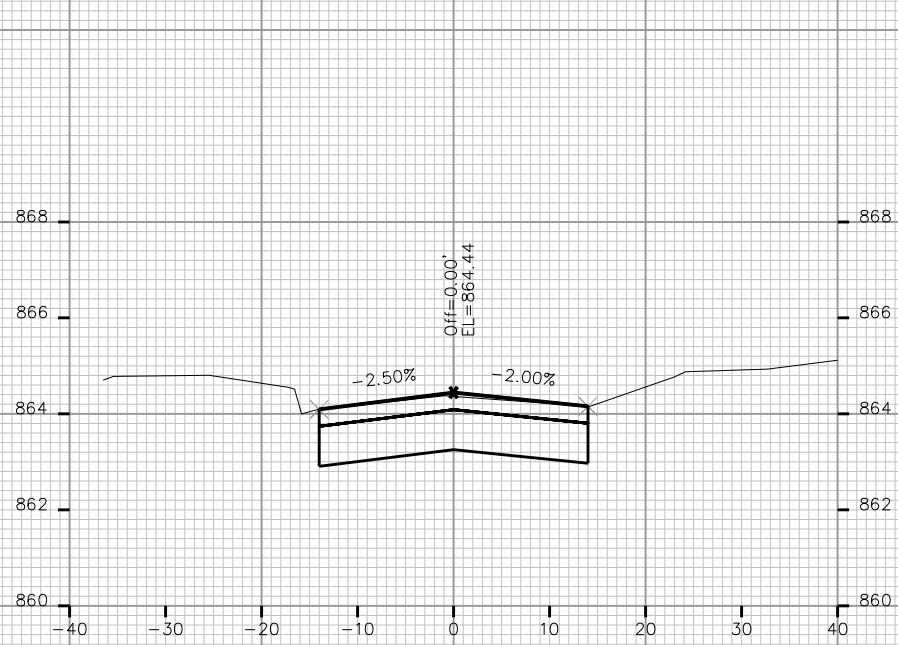
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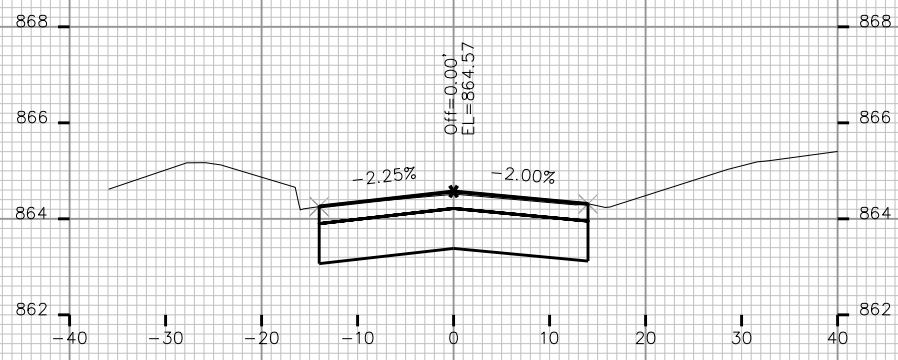
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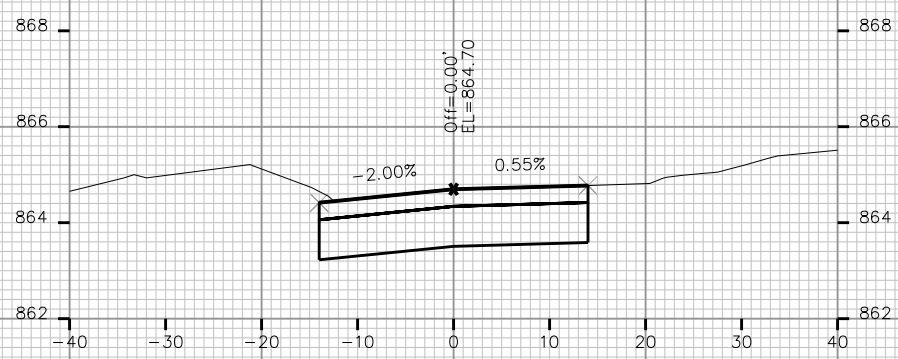
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



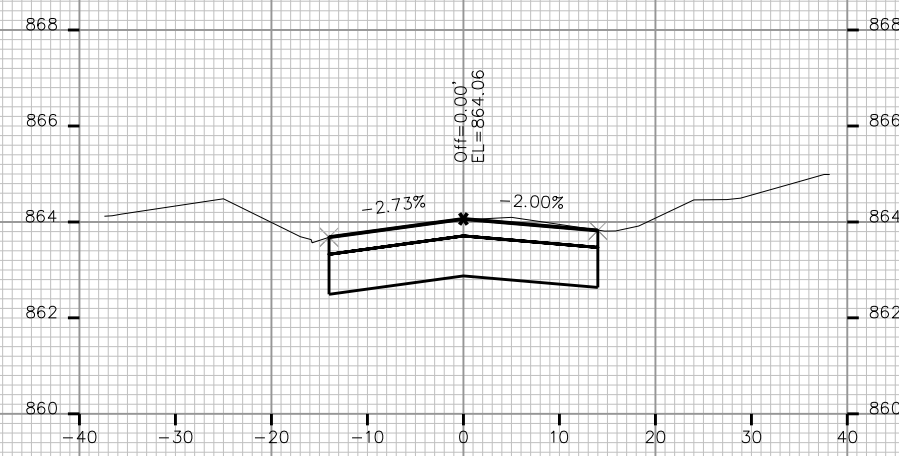
STA. 11+25



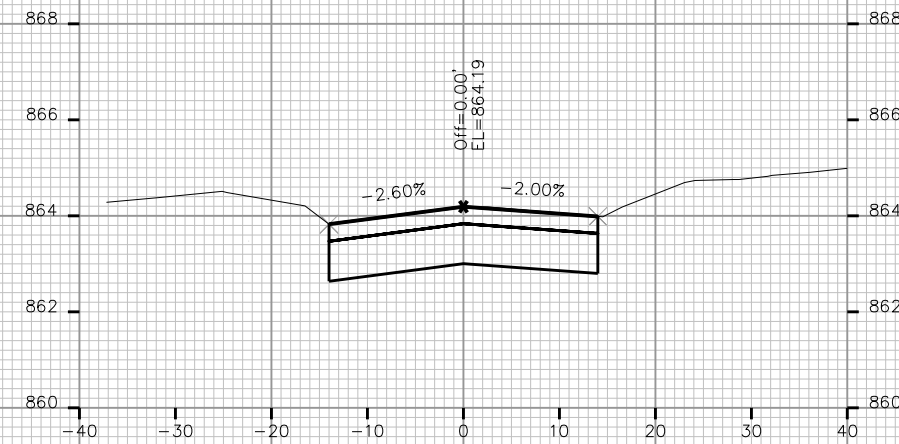
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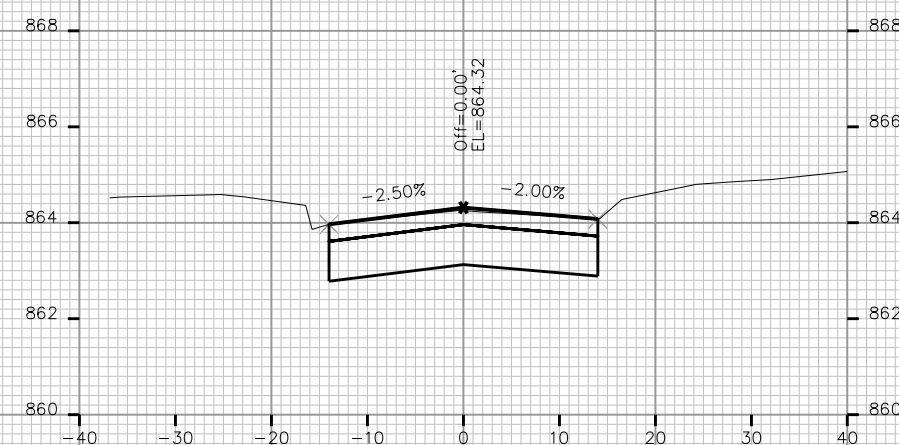
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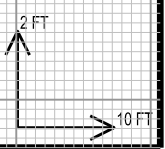
STA. 12+00



STA. 11+75



STA. 11+50



CROSS SECTIONS

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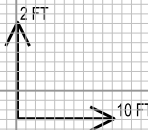
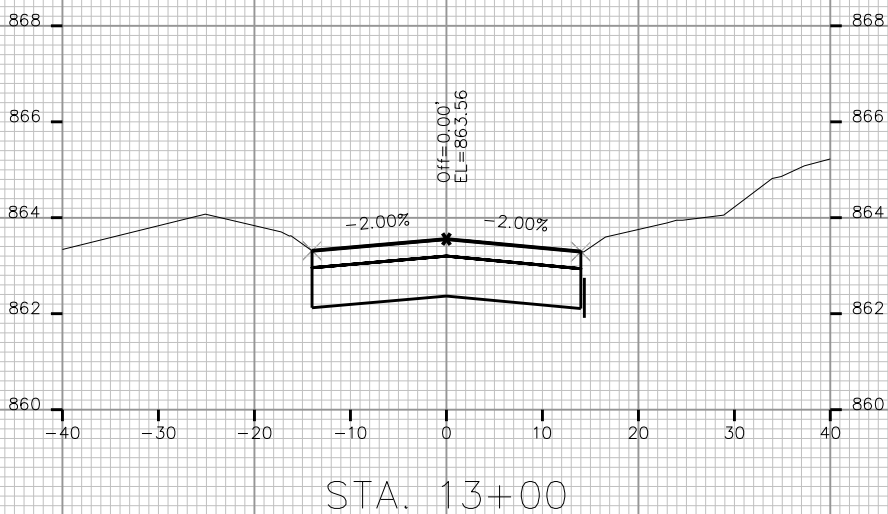
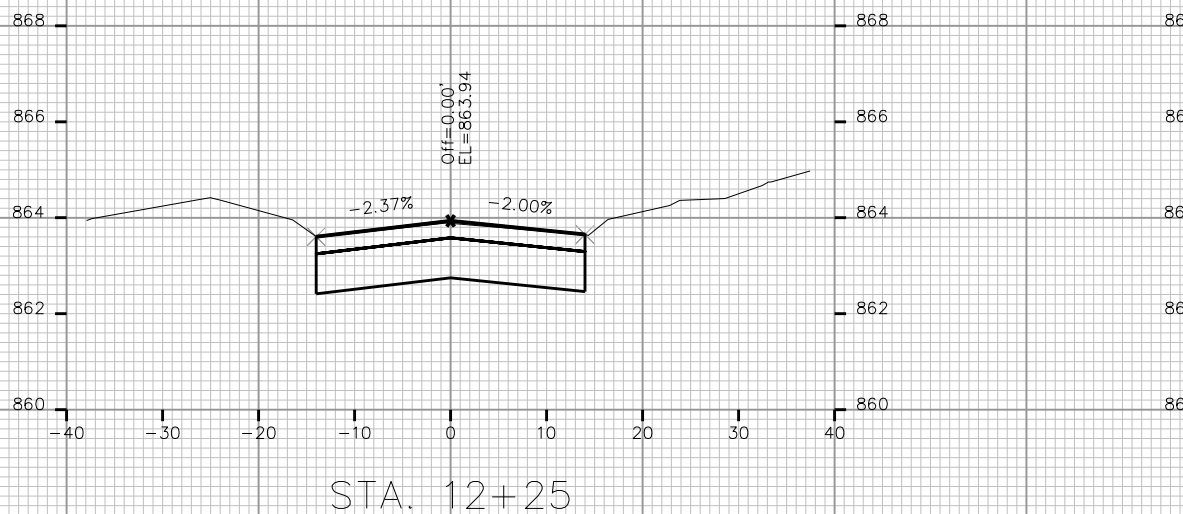
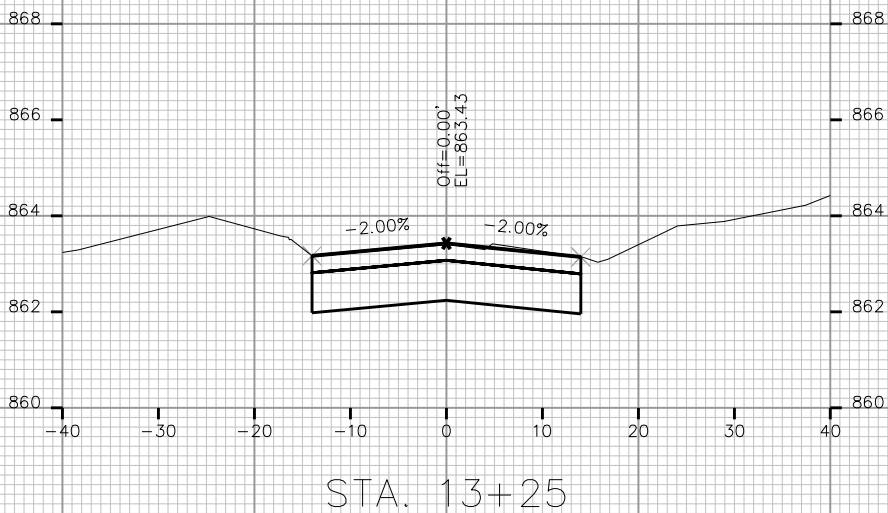
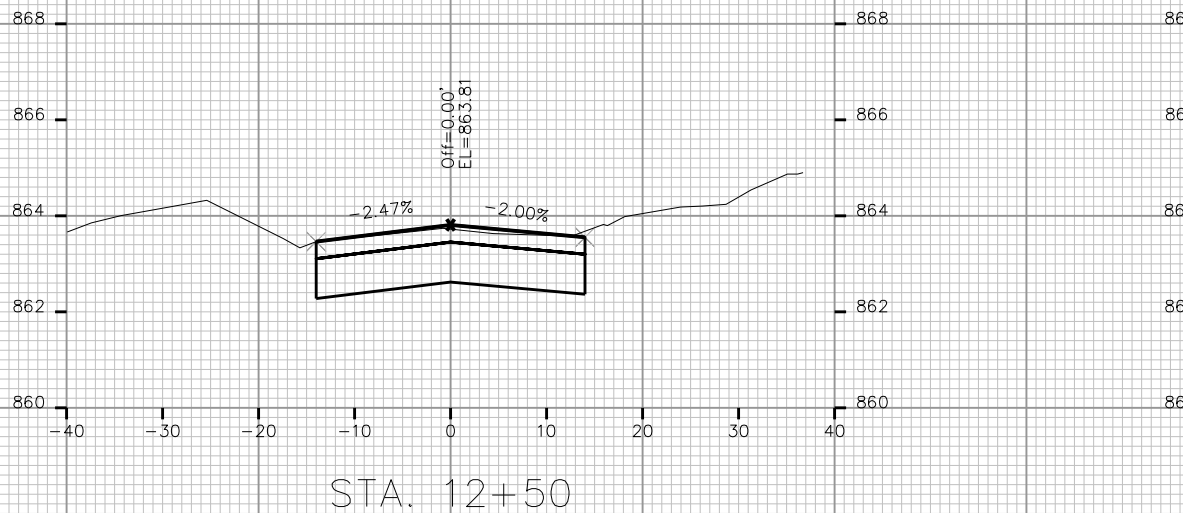
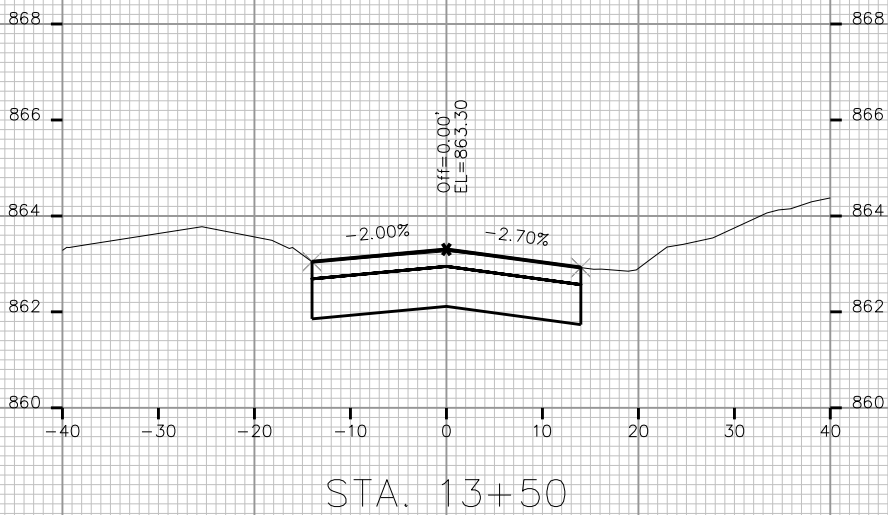
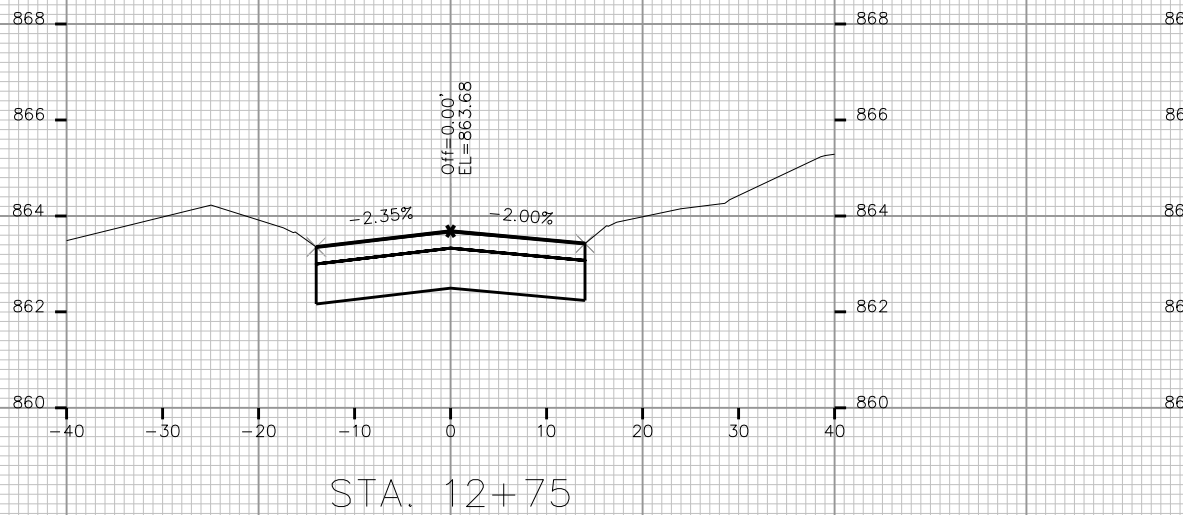
CITY OF MADISON

PLOT SCALE: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

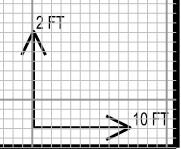
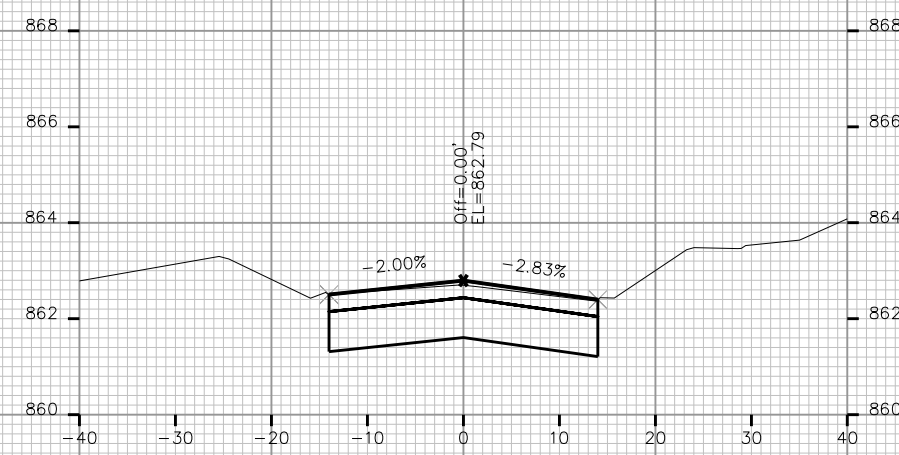
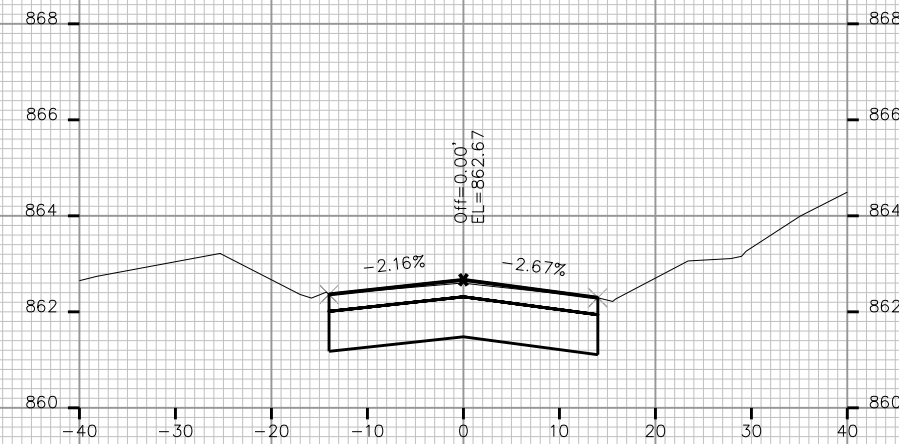
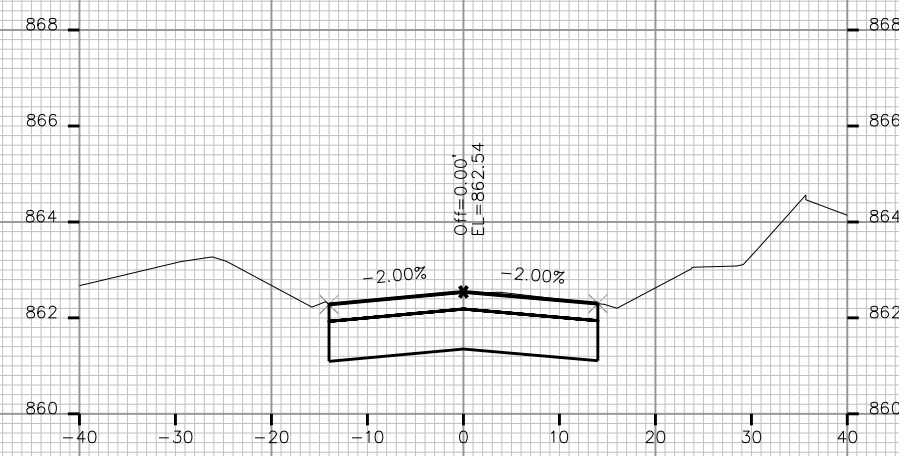
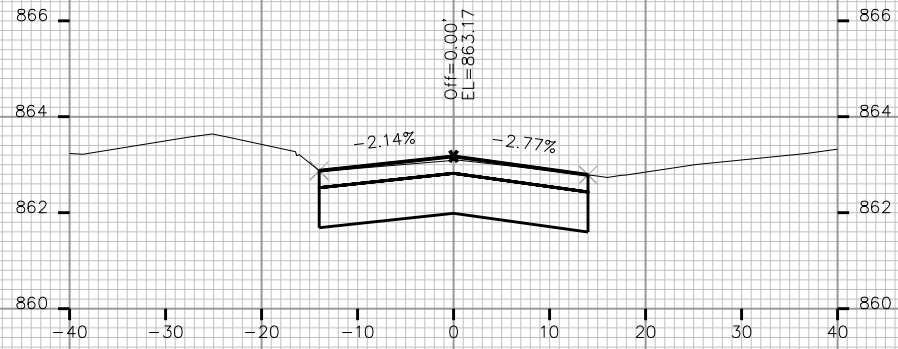
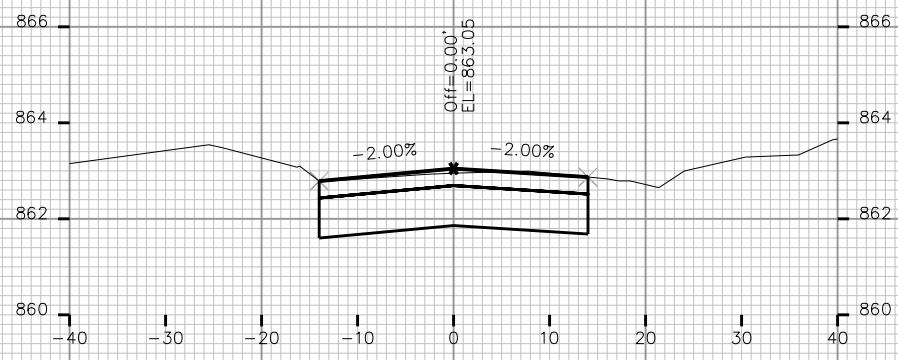
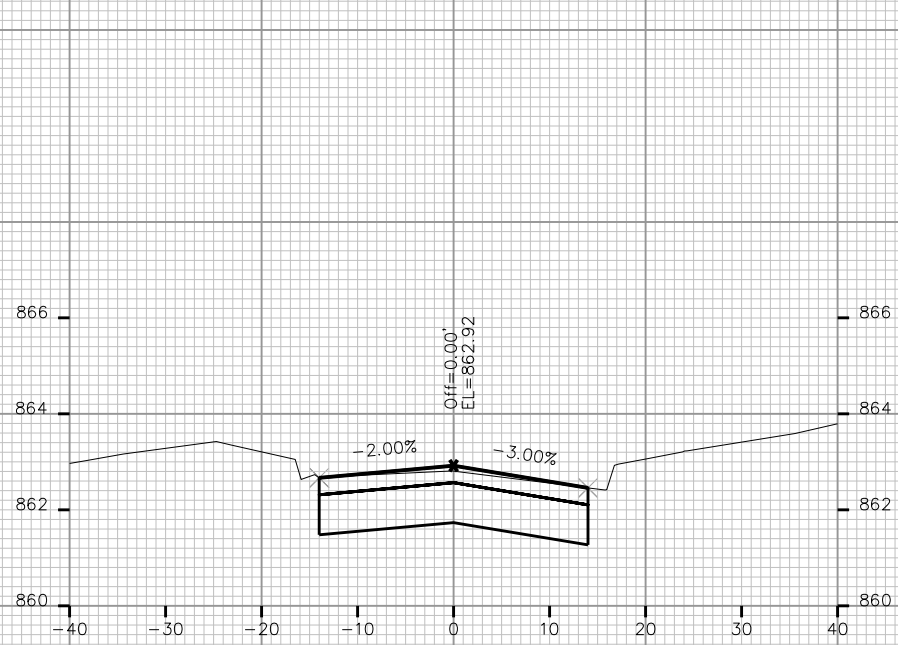


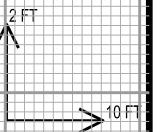
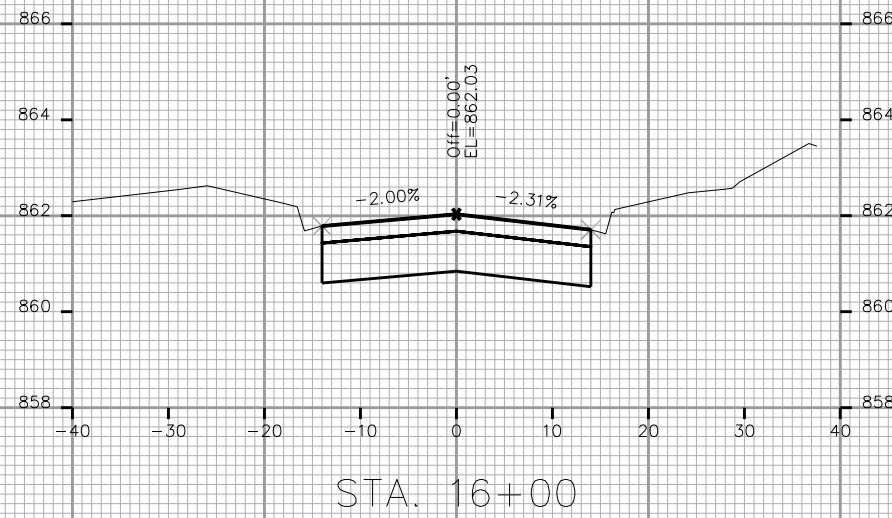
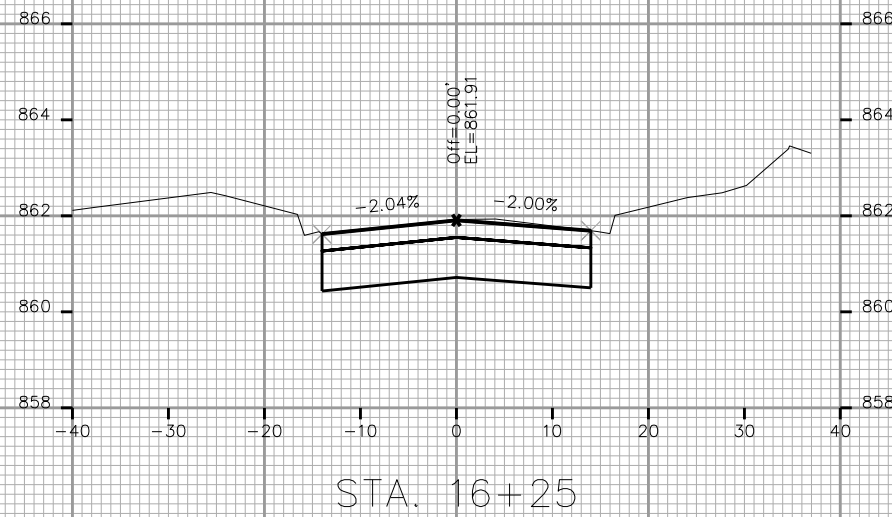
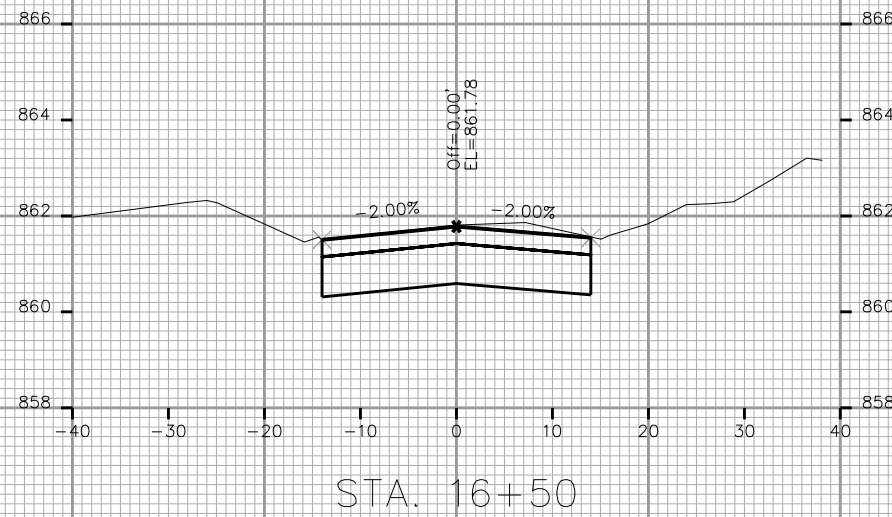
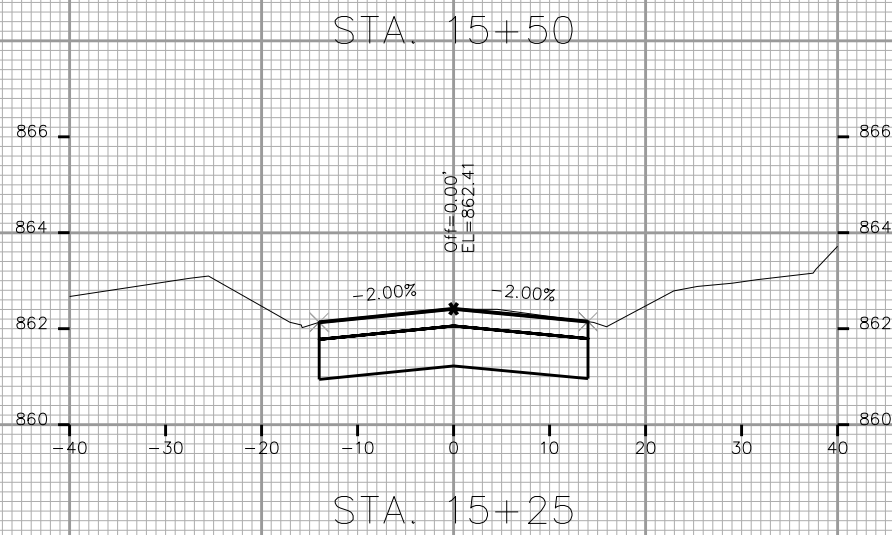
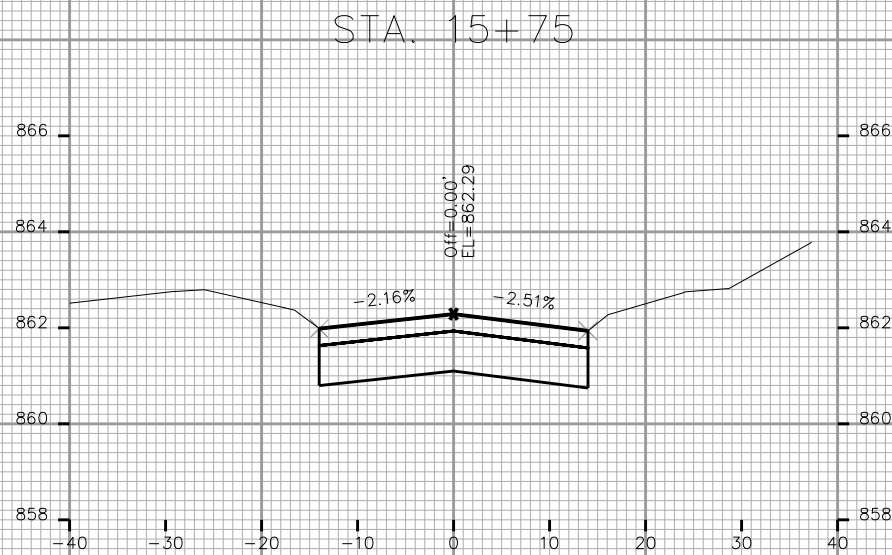
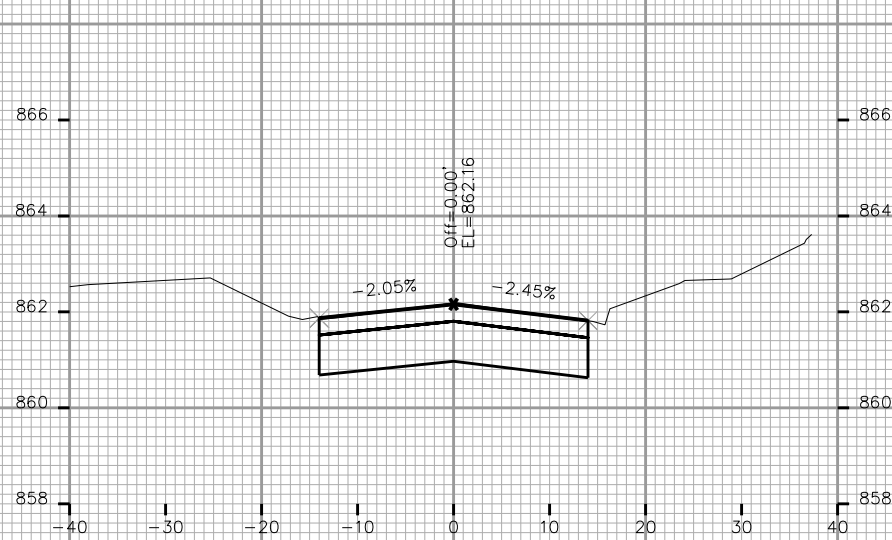
PLOT SCALE: _____

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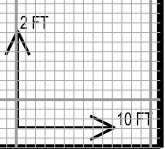
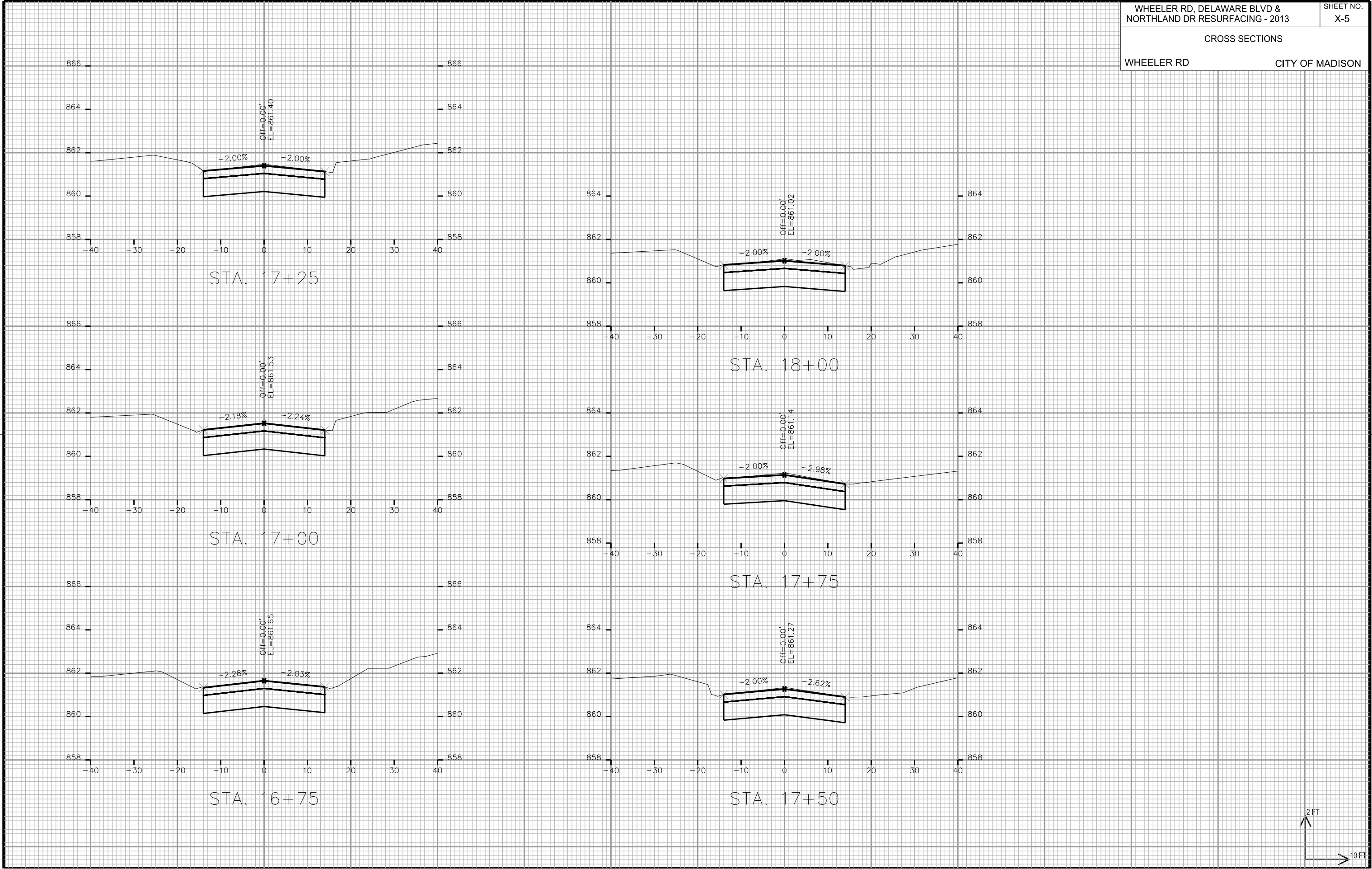
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

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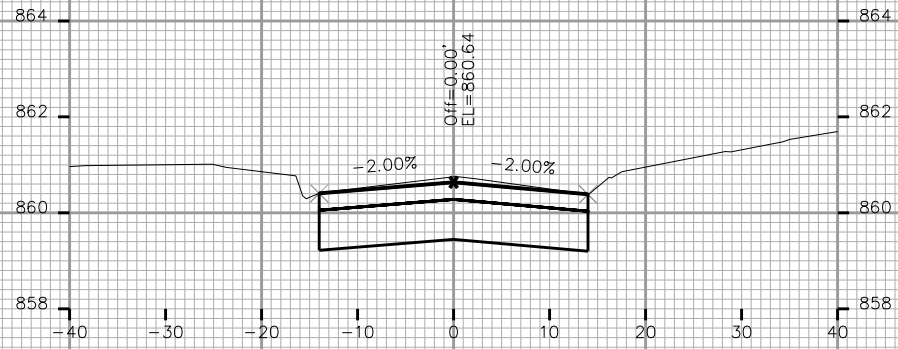


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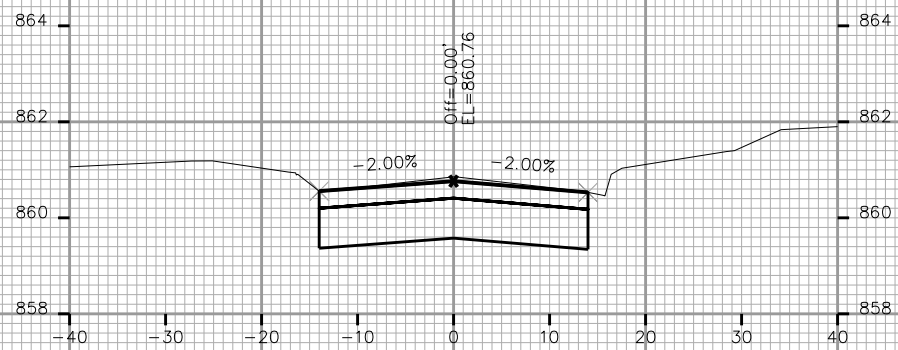
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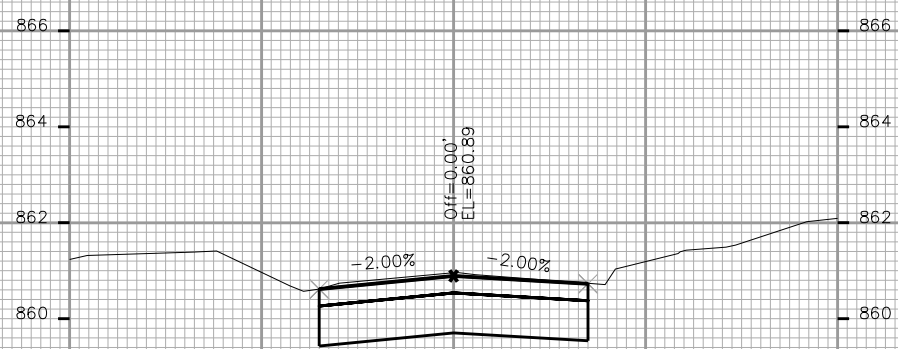
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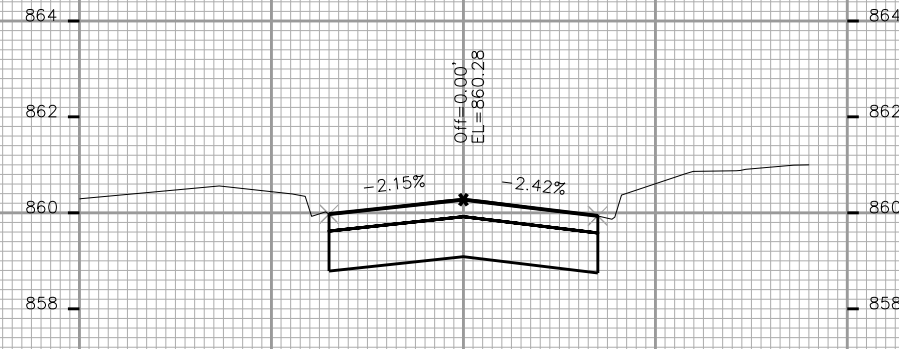
STA. 18+75



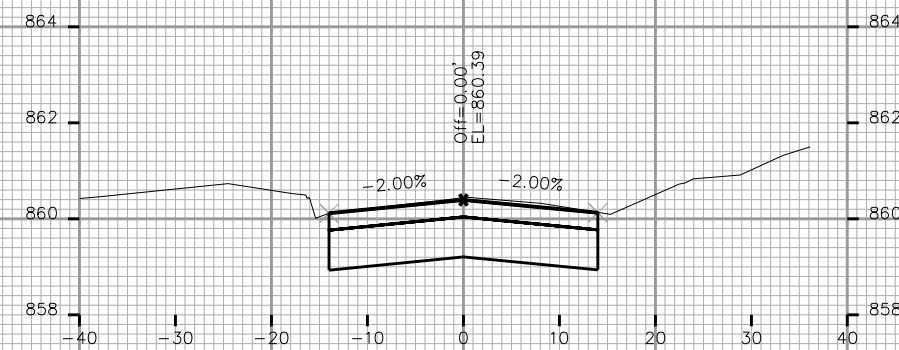
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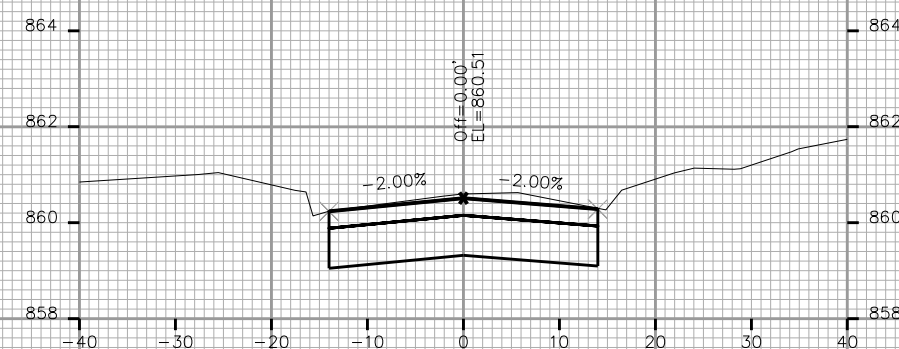
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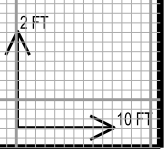
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STA. 19+25



STA. 19+00

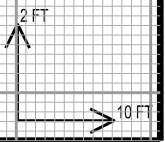
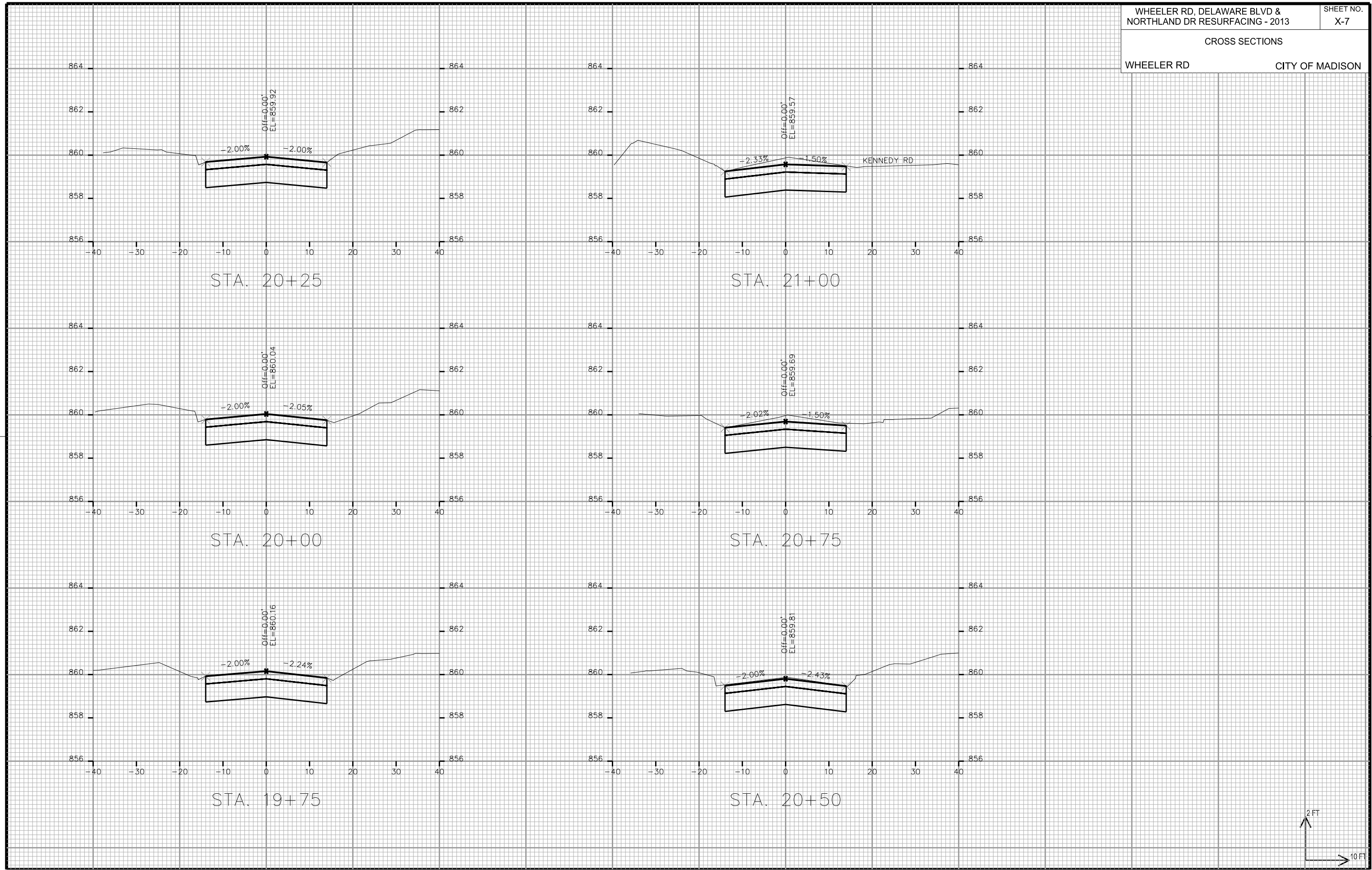


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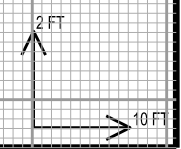
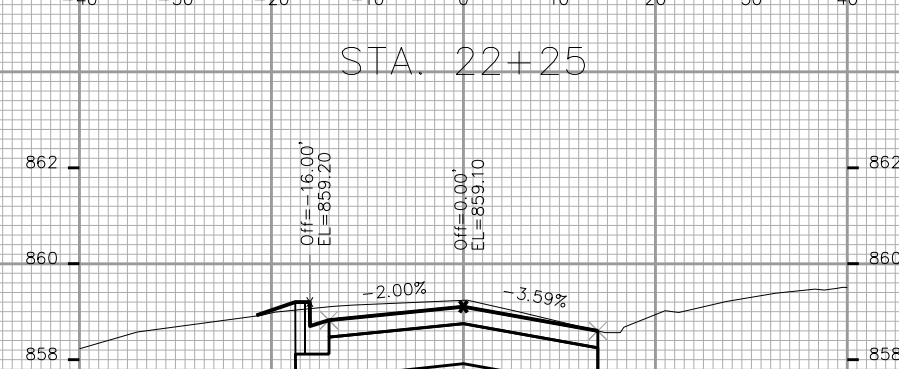
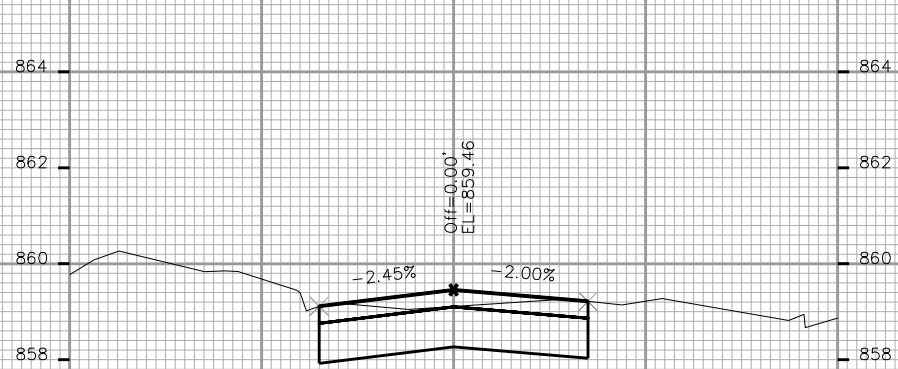
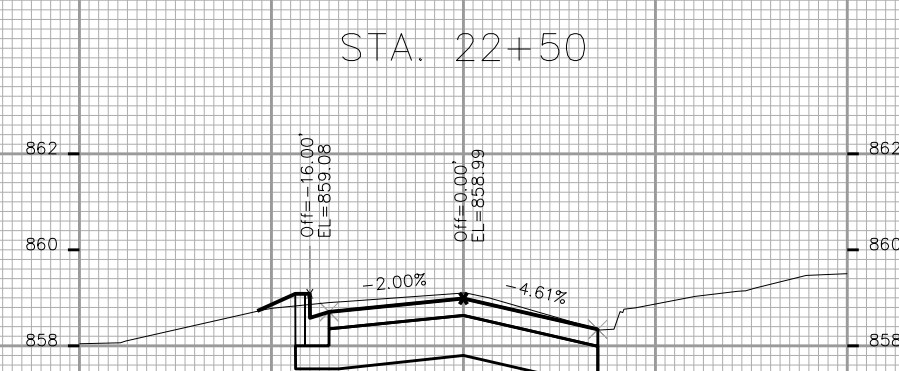
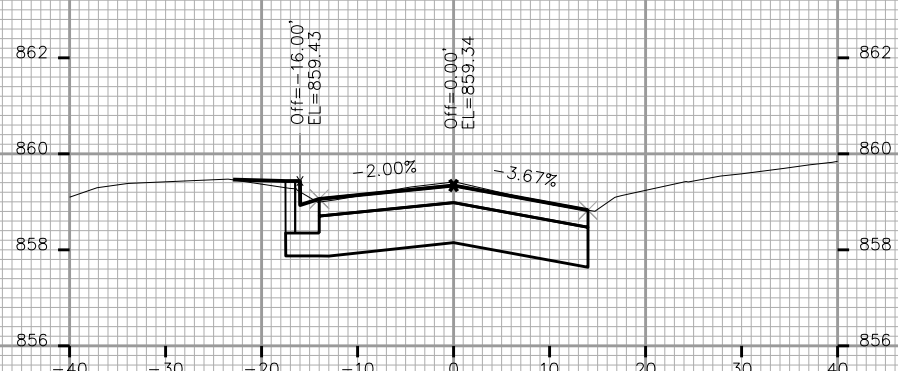
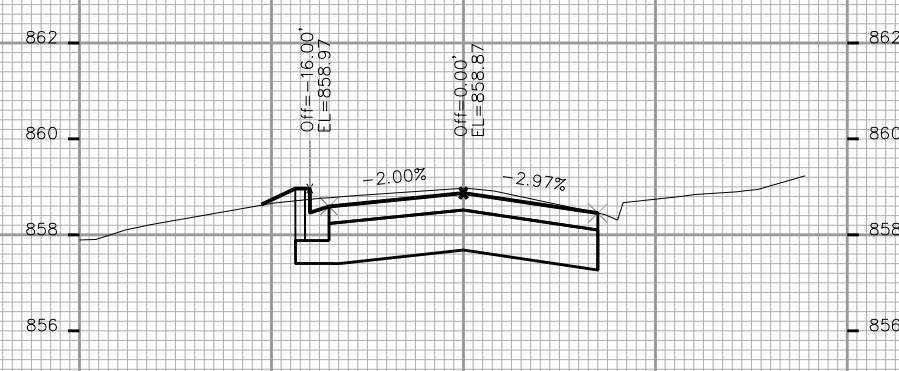
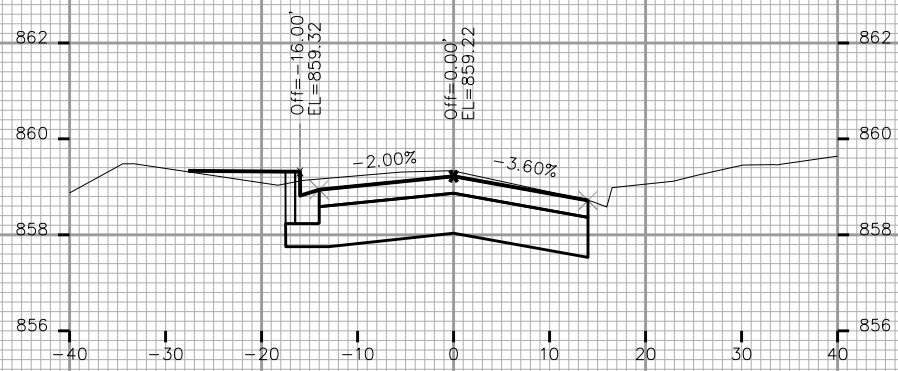


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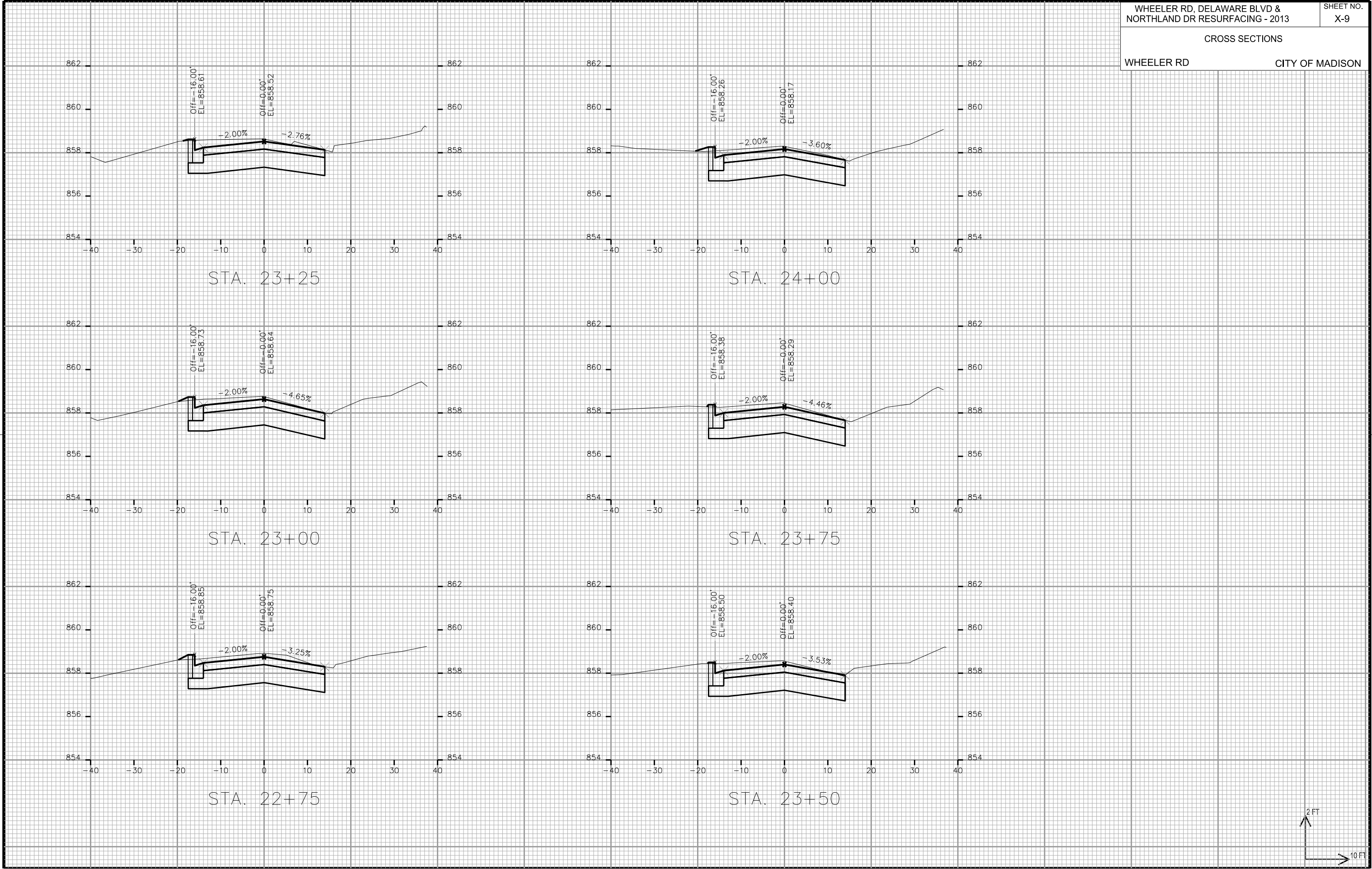


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

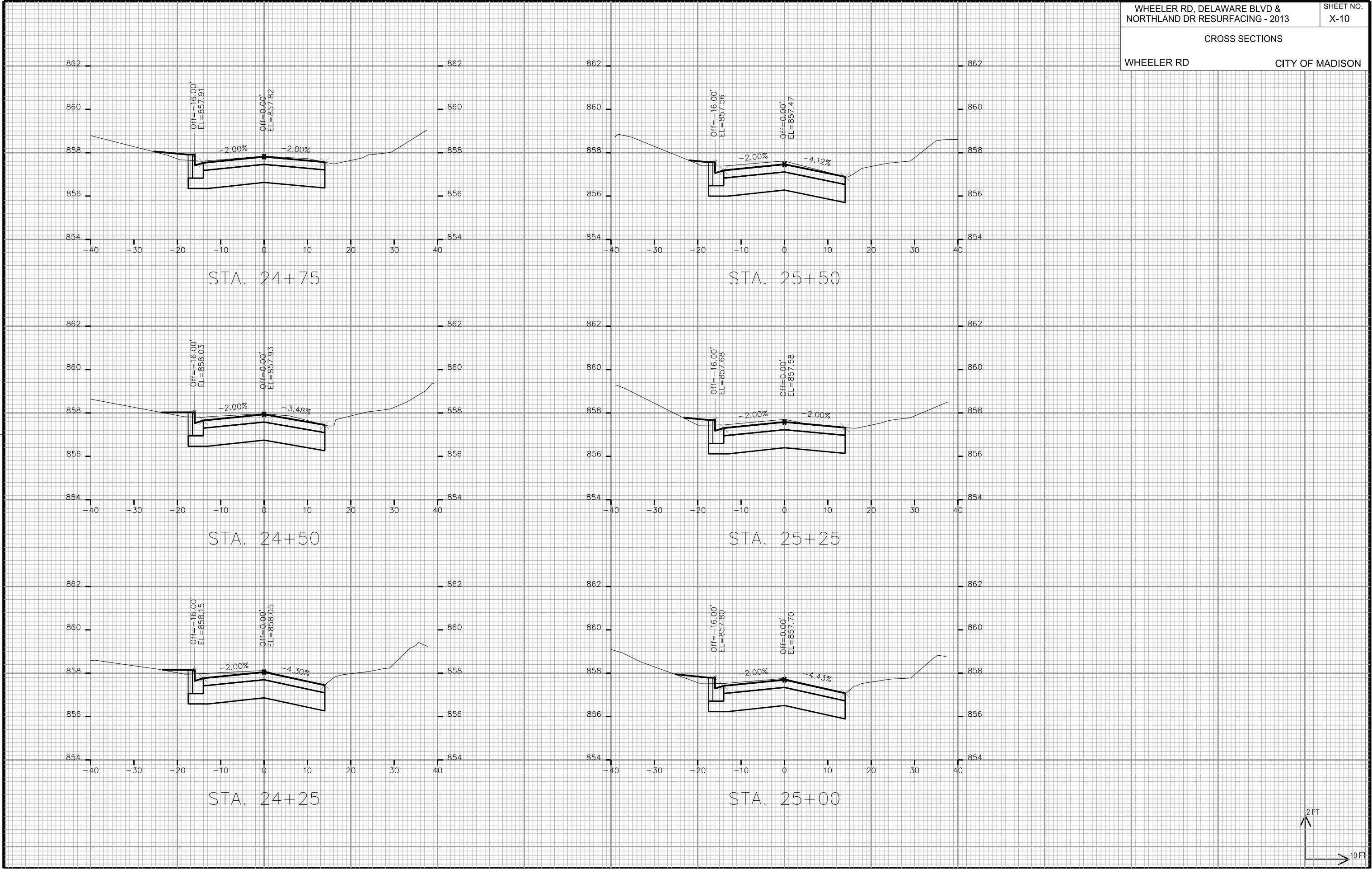


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

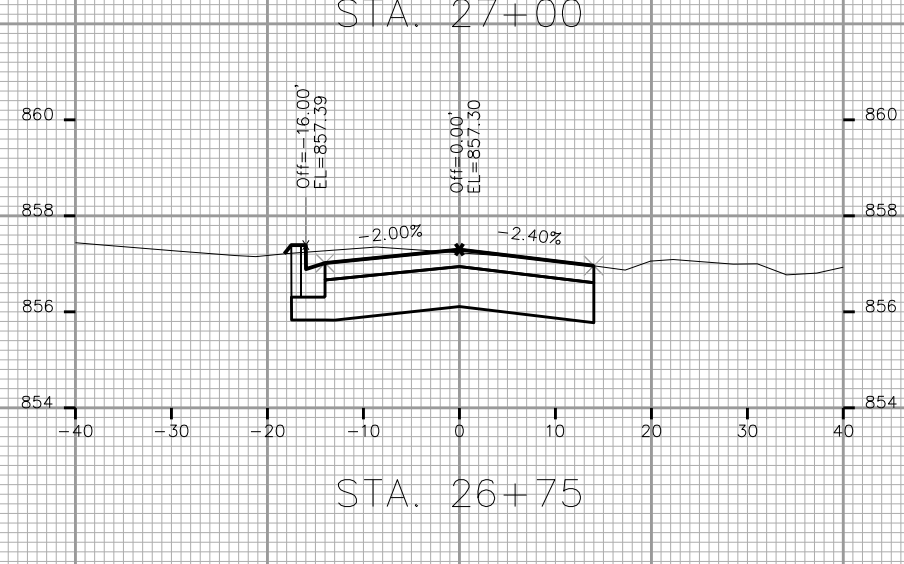
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



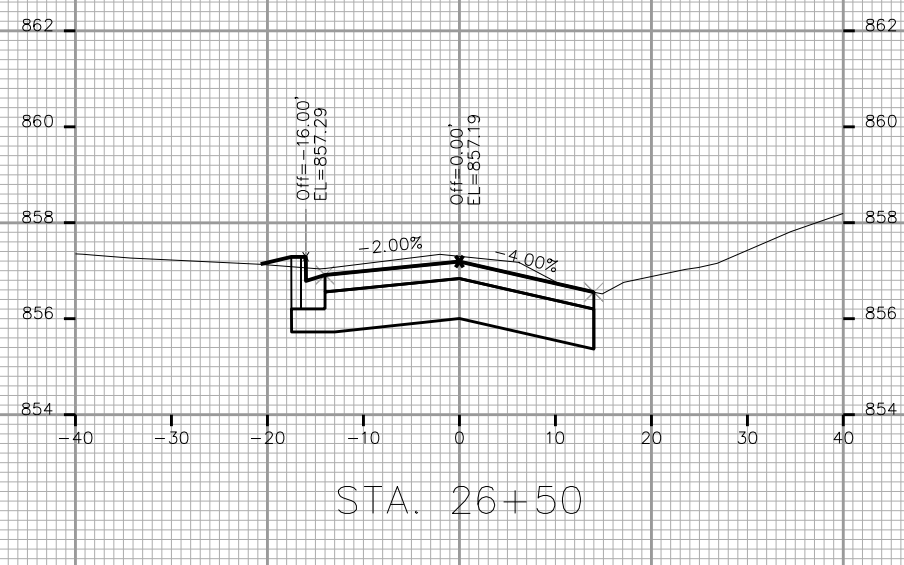
CITY OF MADISON



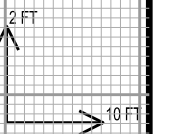
STA. 27+00



STA. 26+75



STA. 26+50

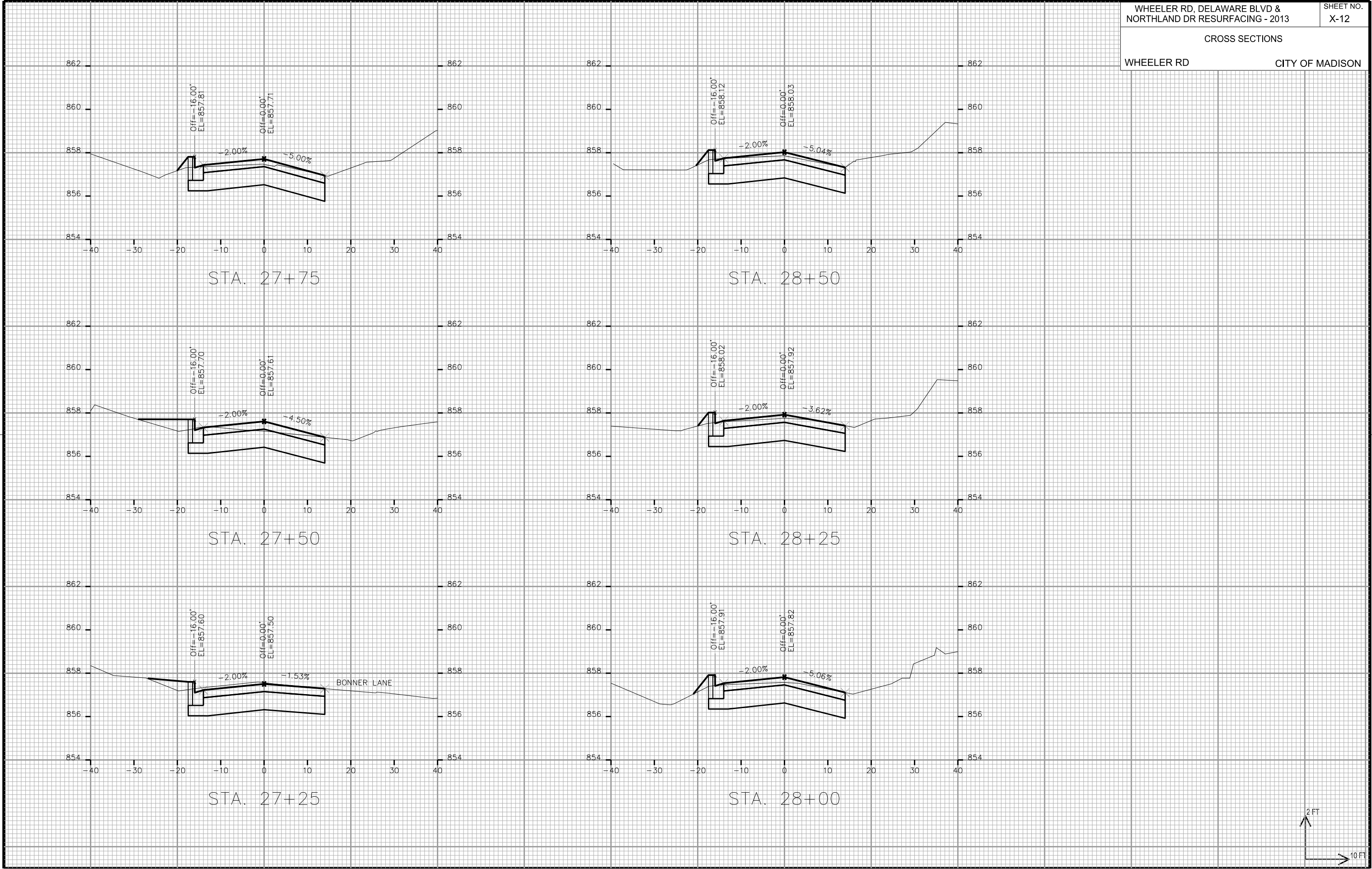


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

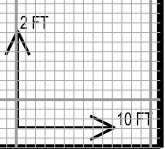
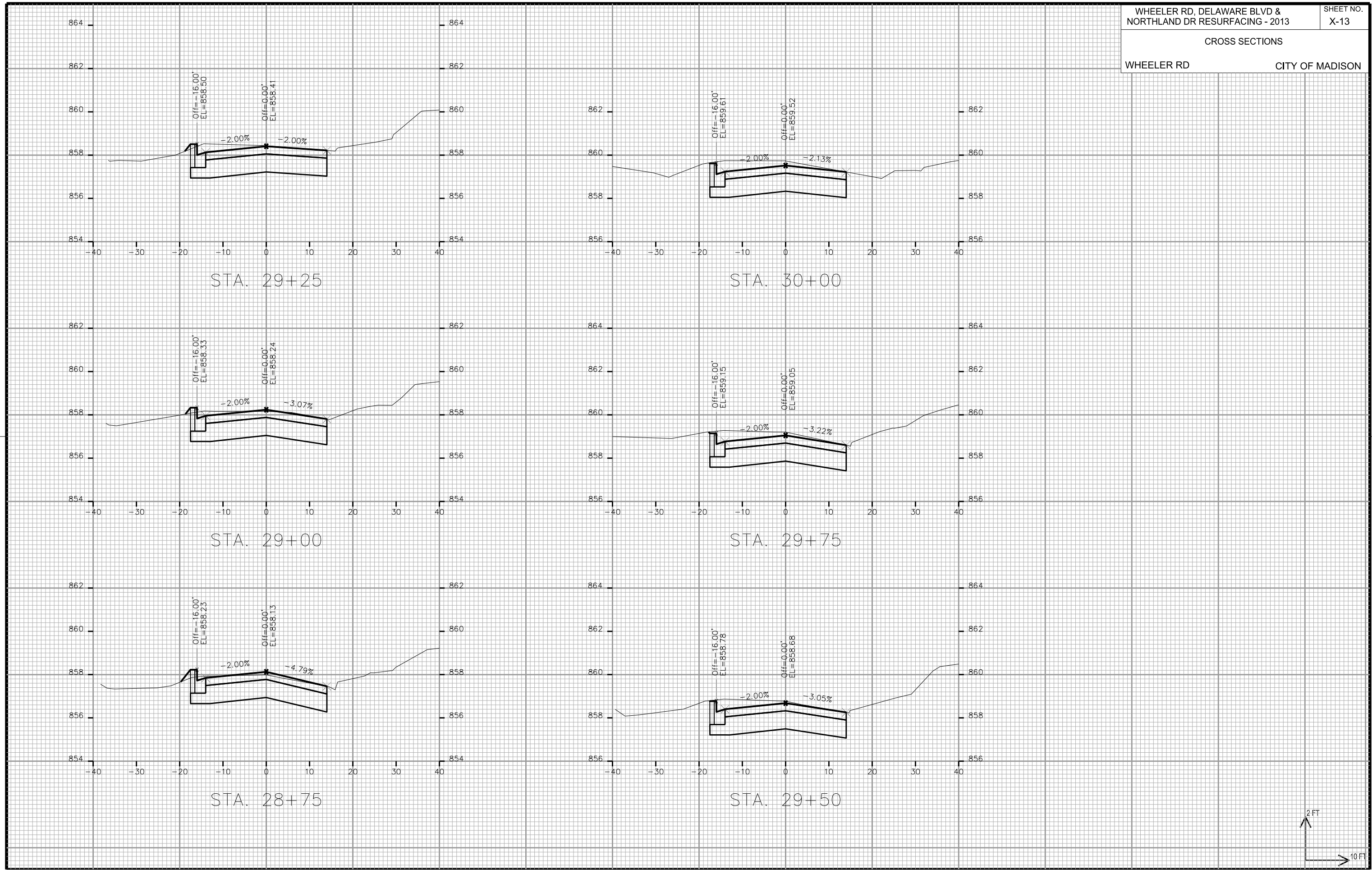


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

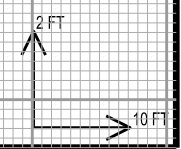
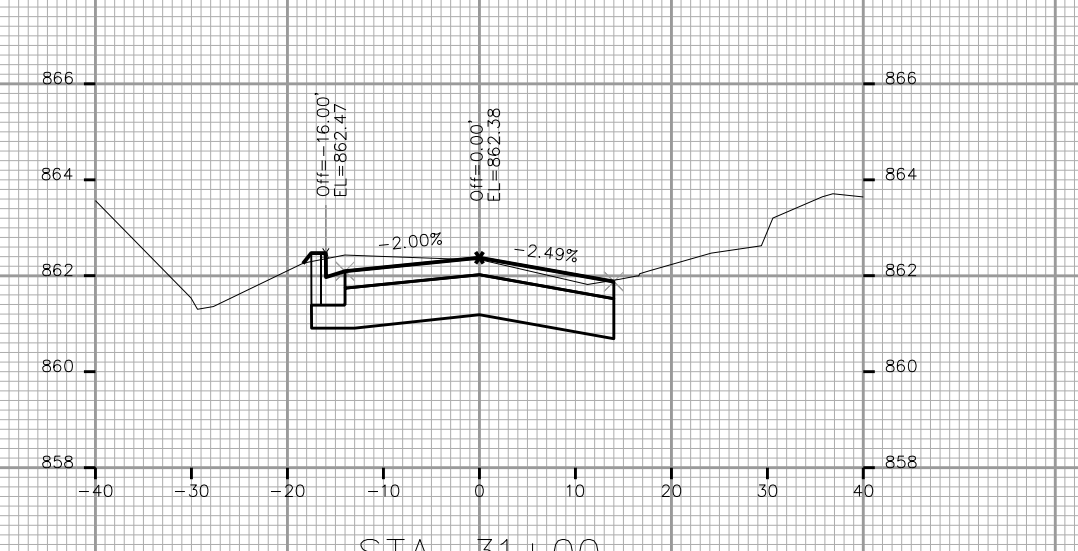
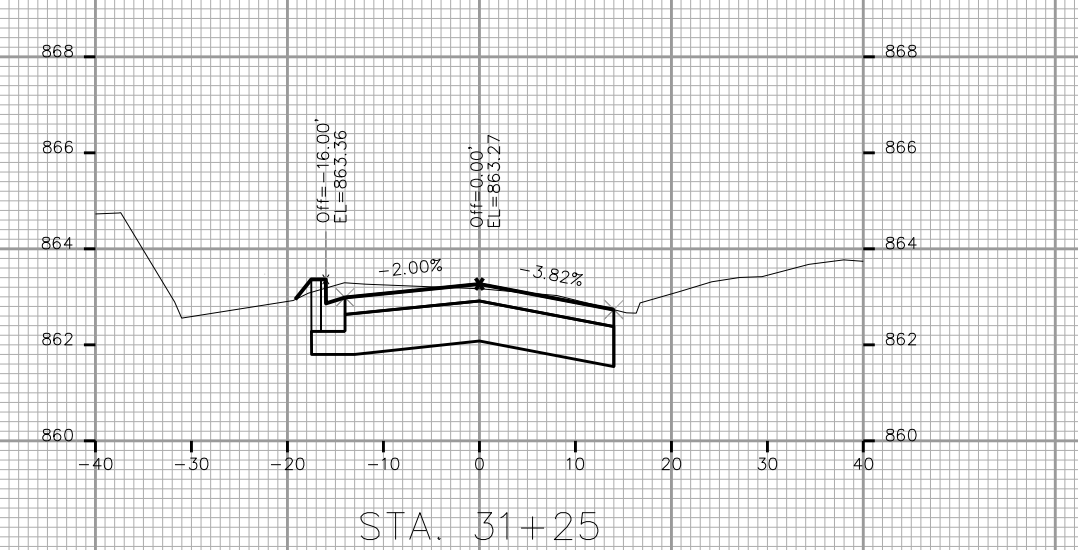
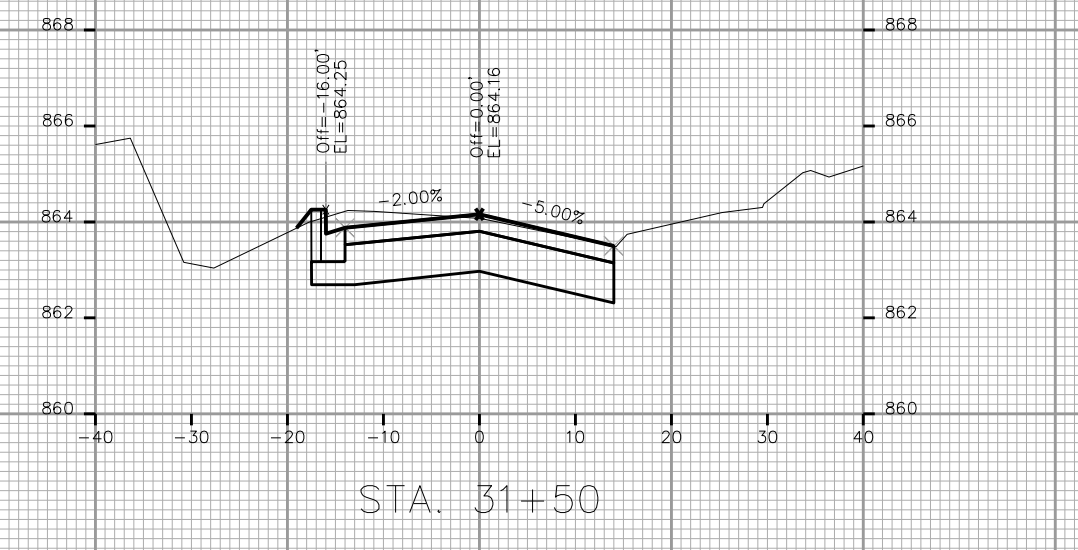
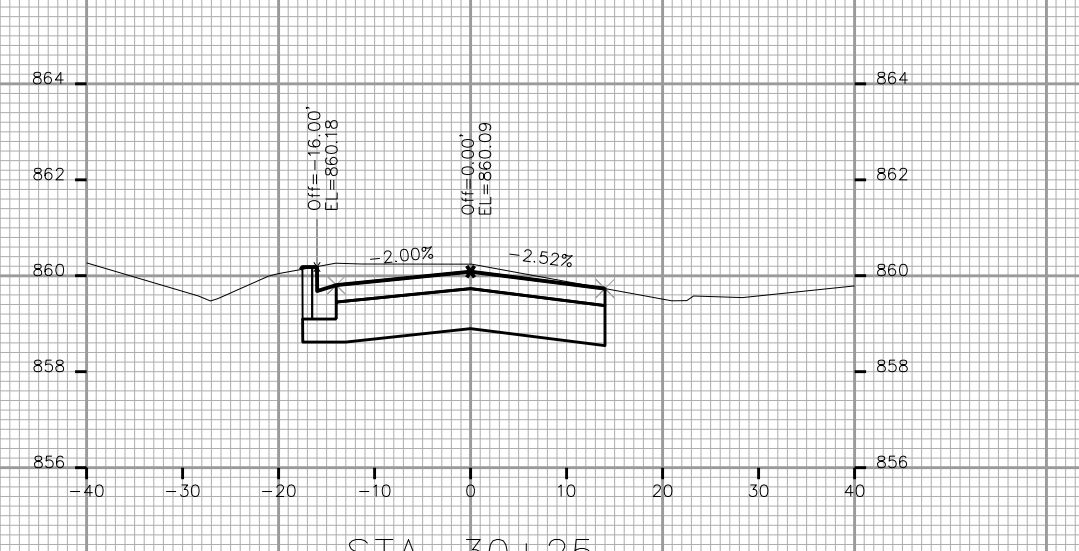
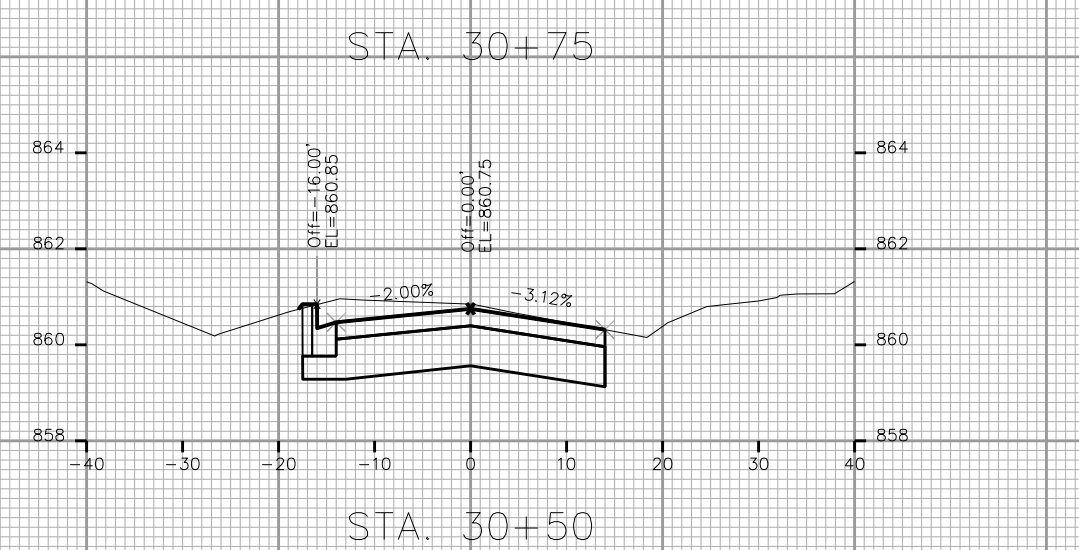
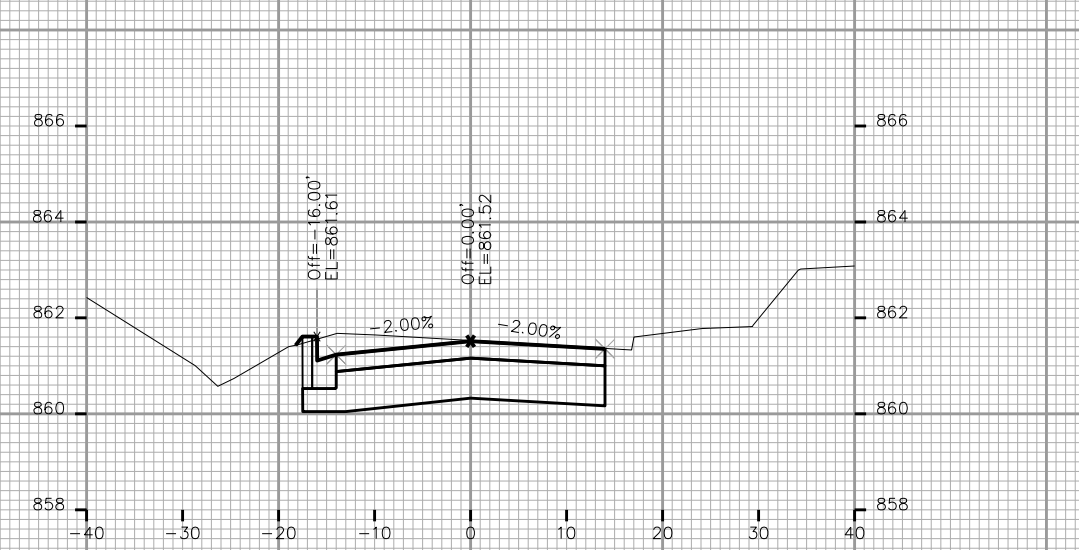
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

WHEELER RD

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

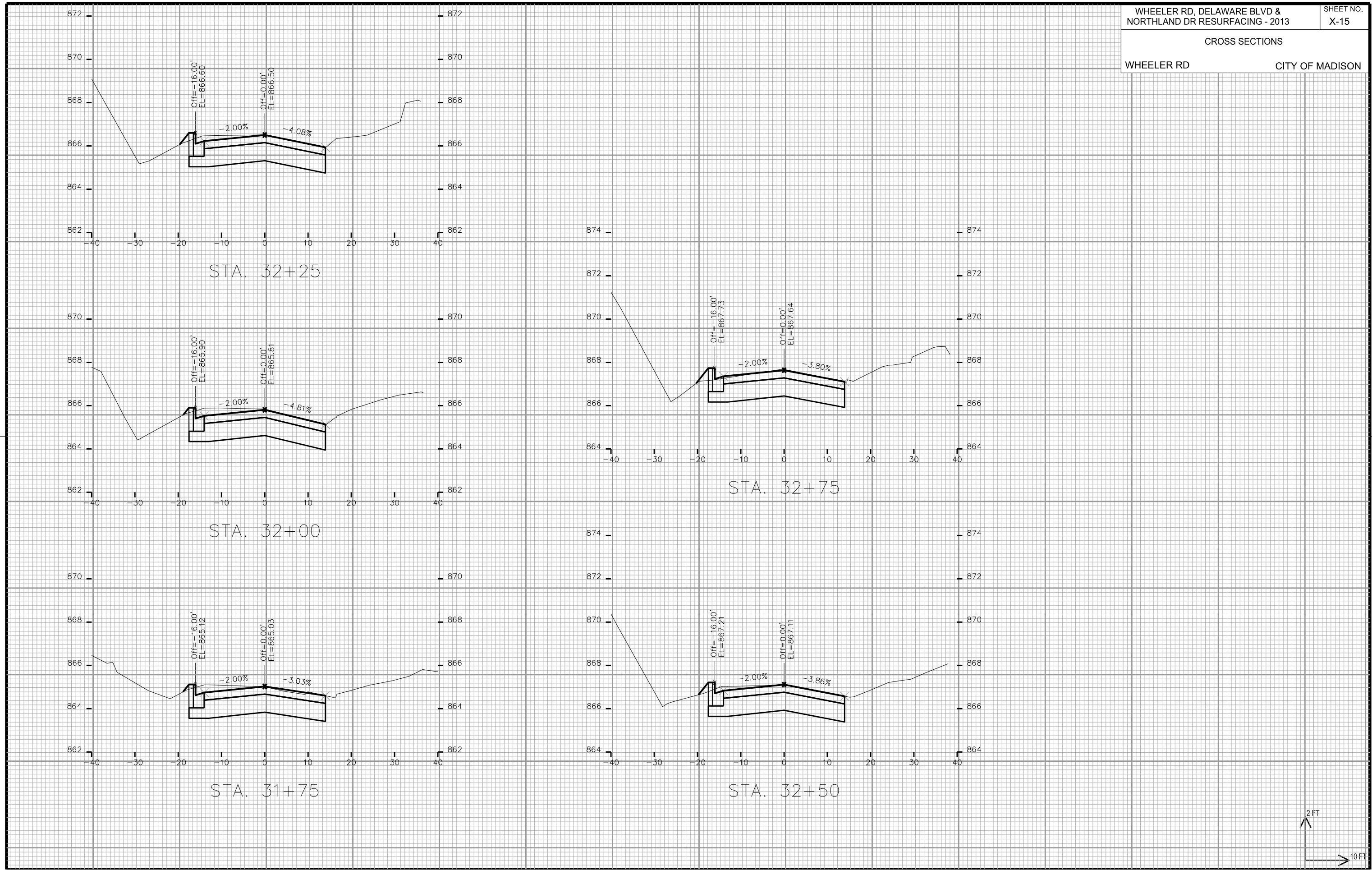
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

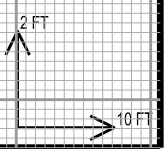
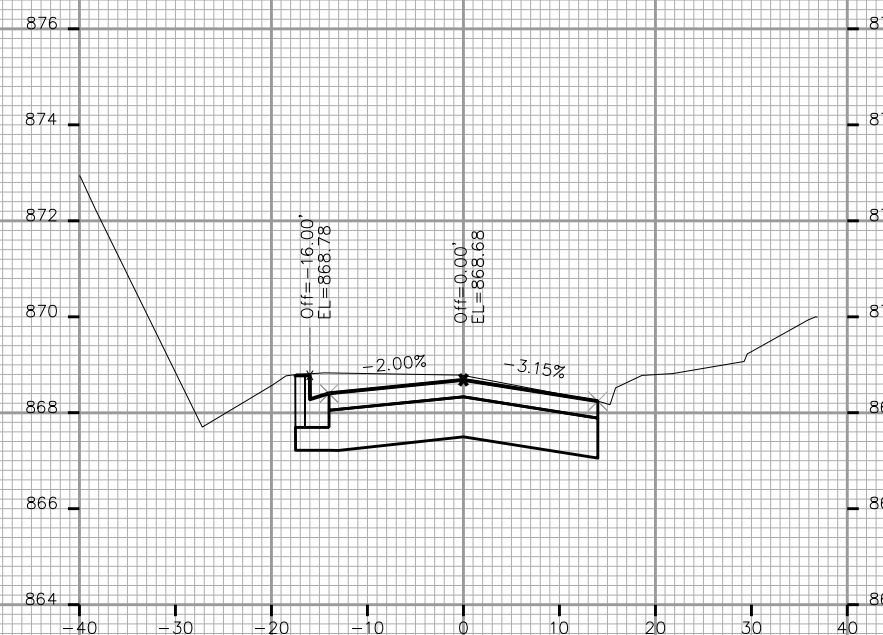
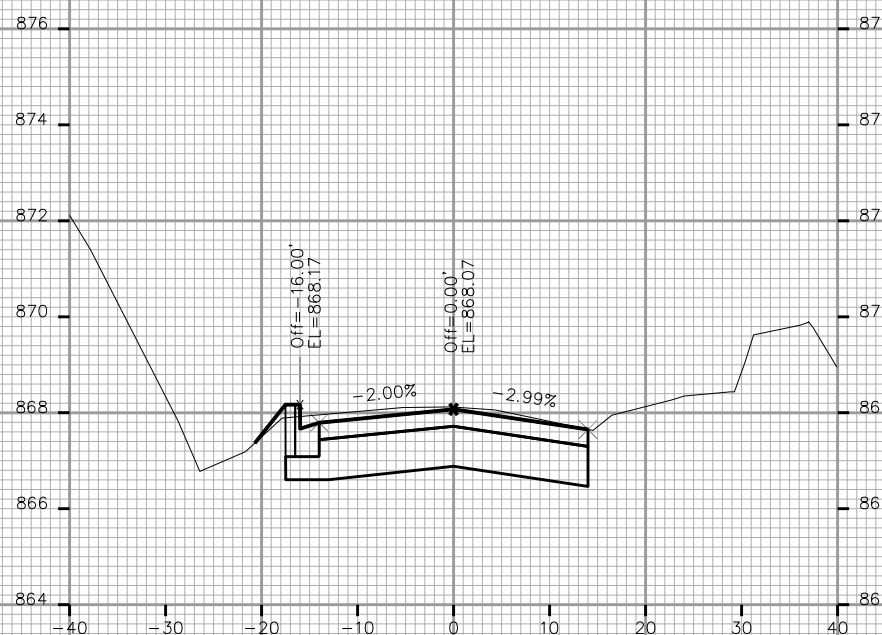
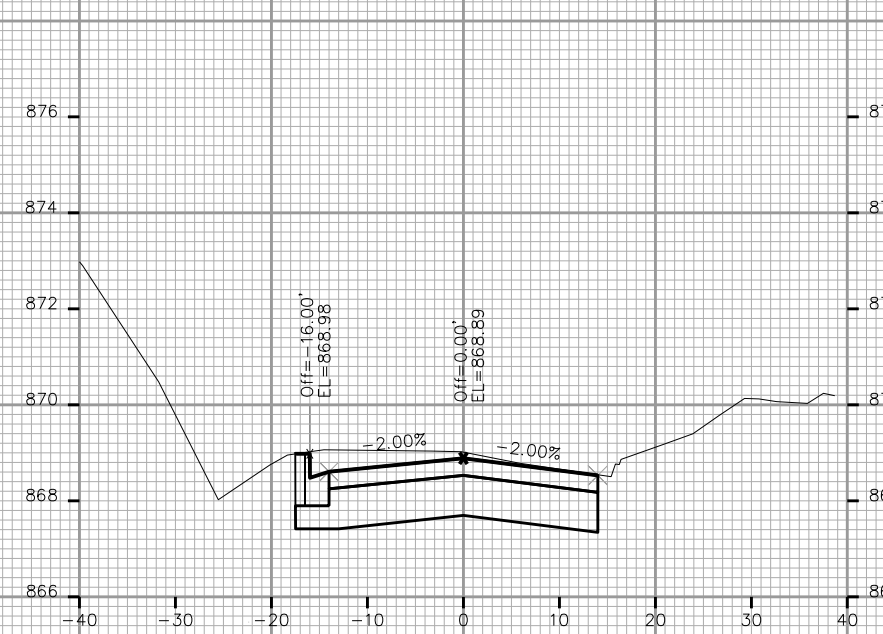
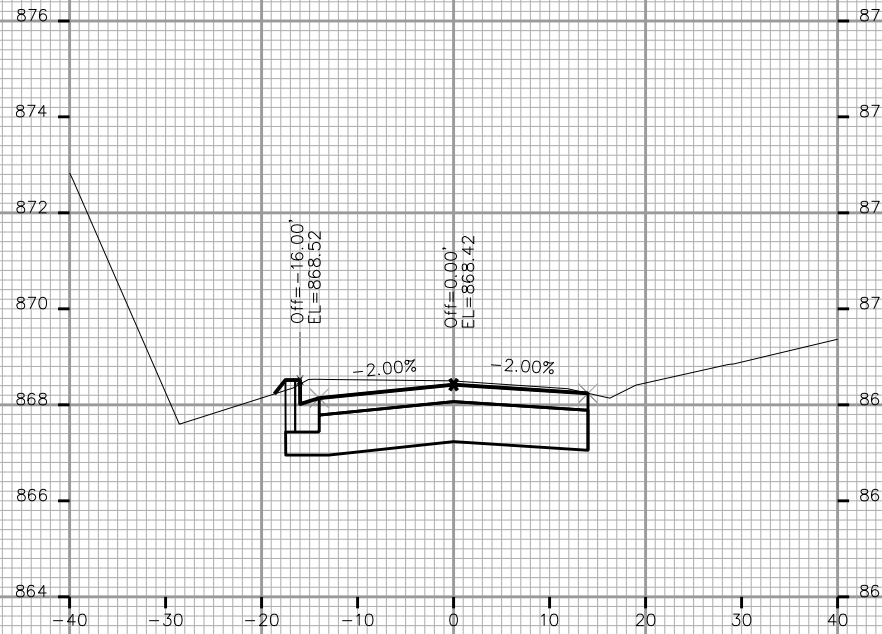


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

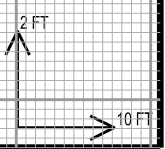
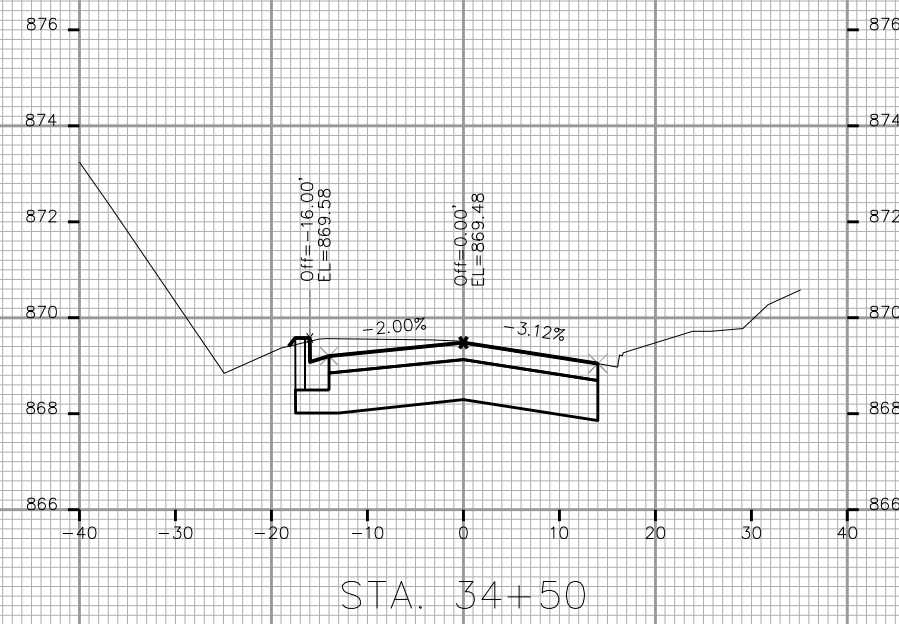
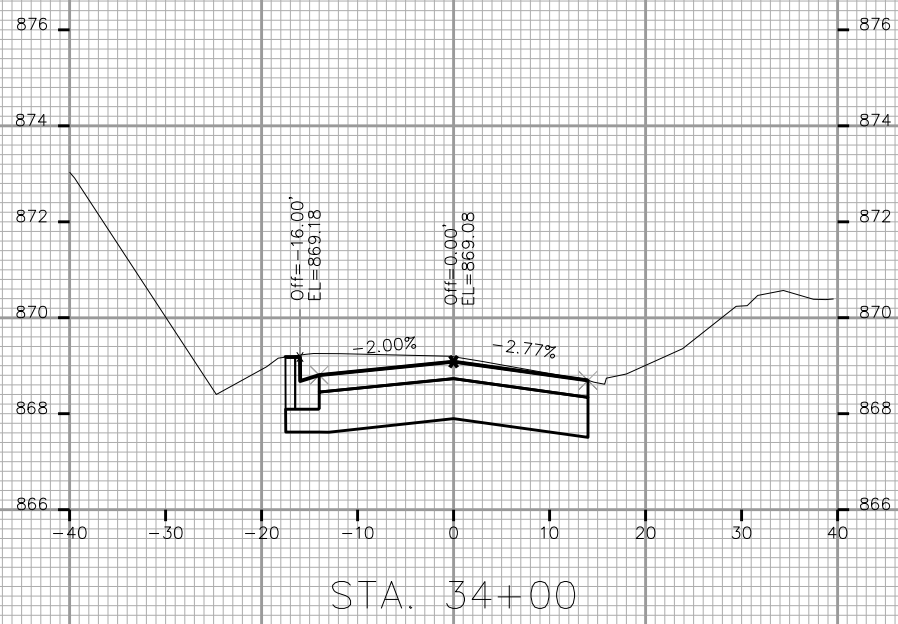


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

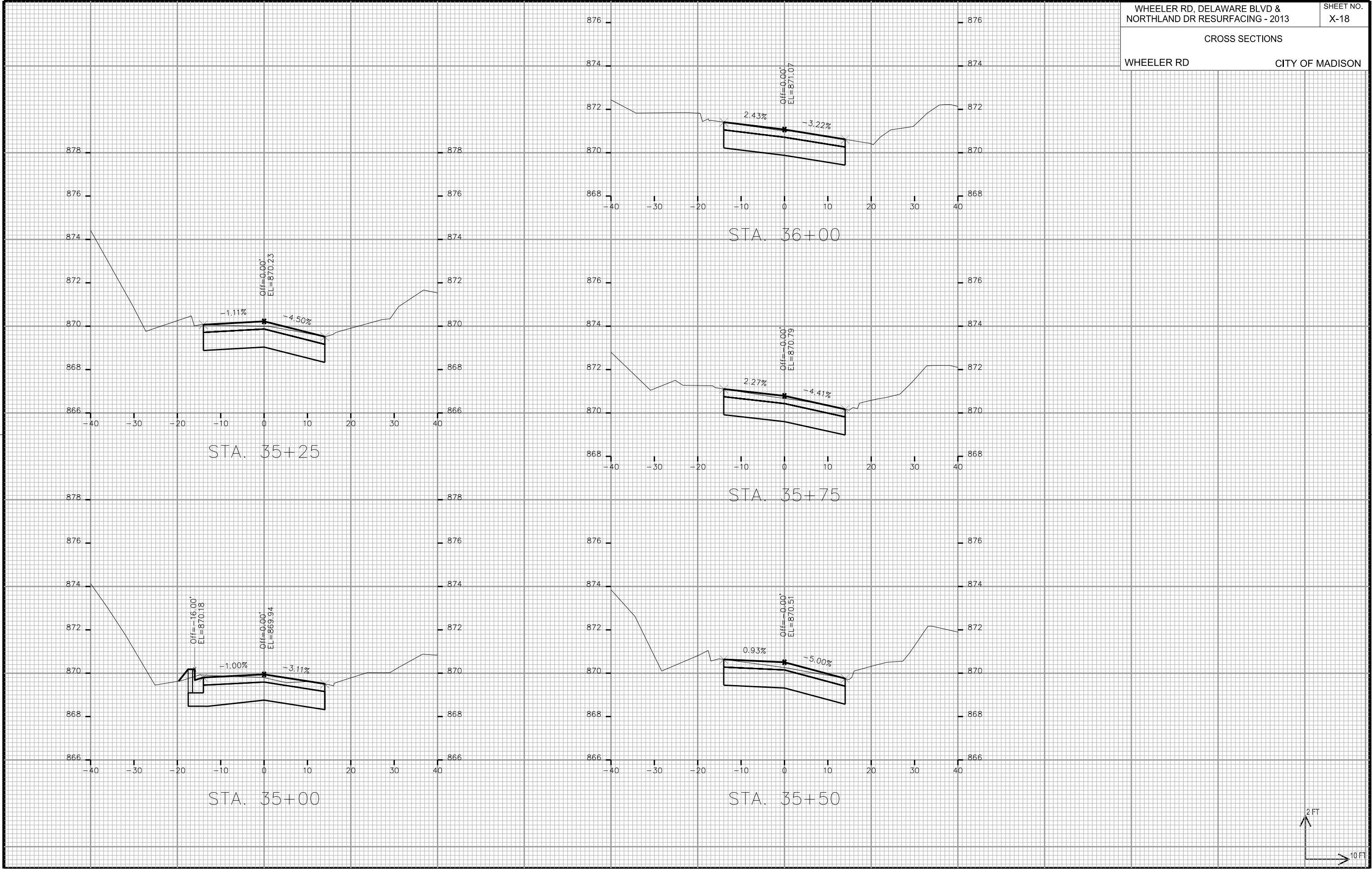


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

NORTHLAND DRIVE

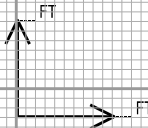
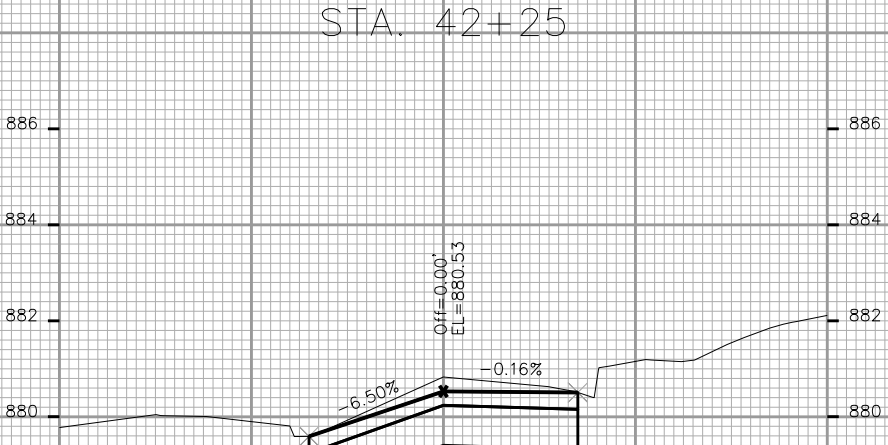
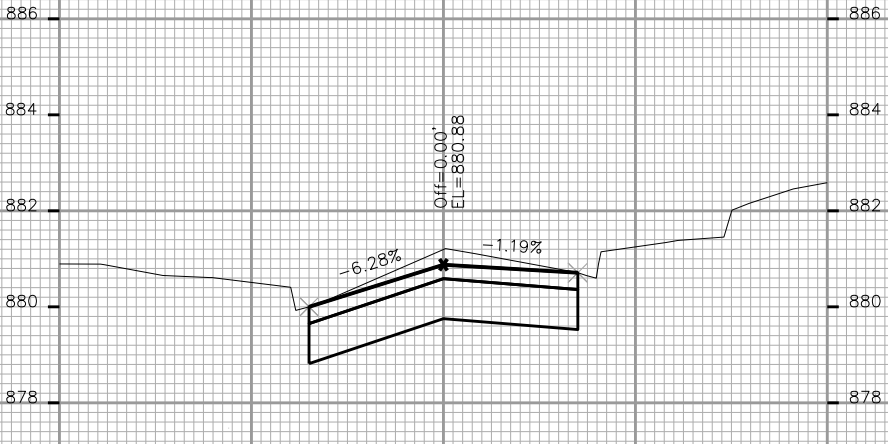
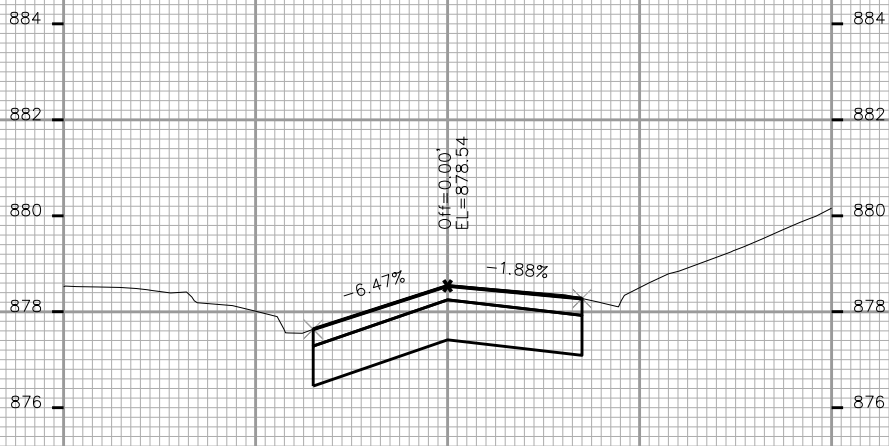
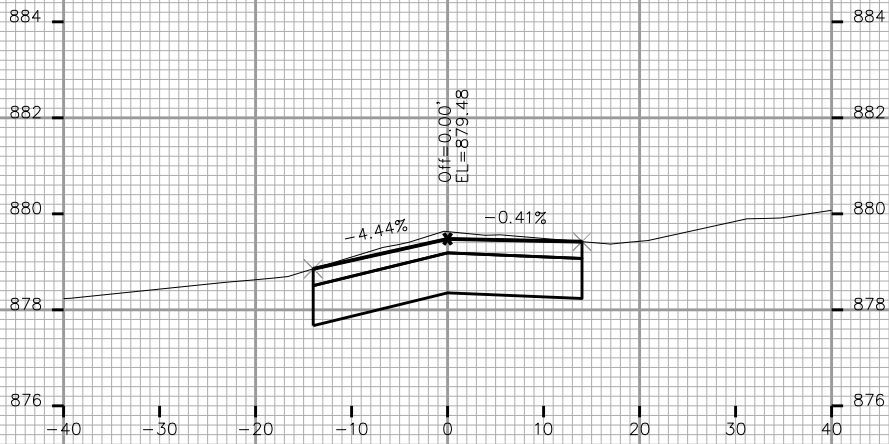
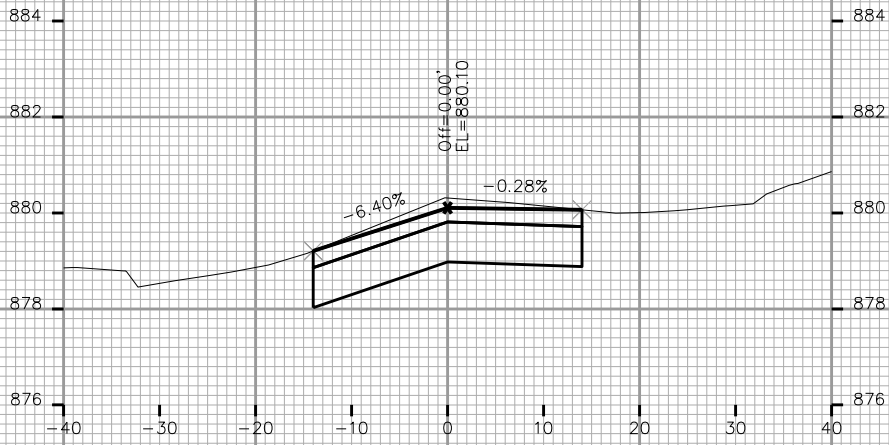
CITY OF MADISON

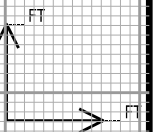
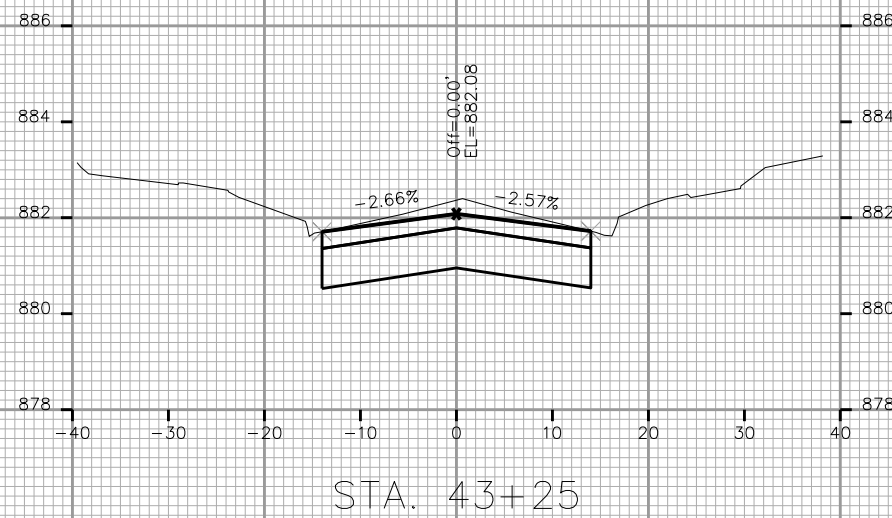
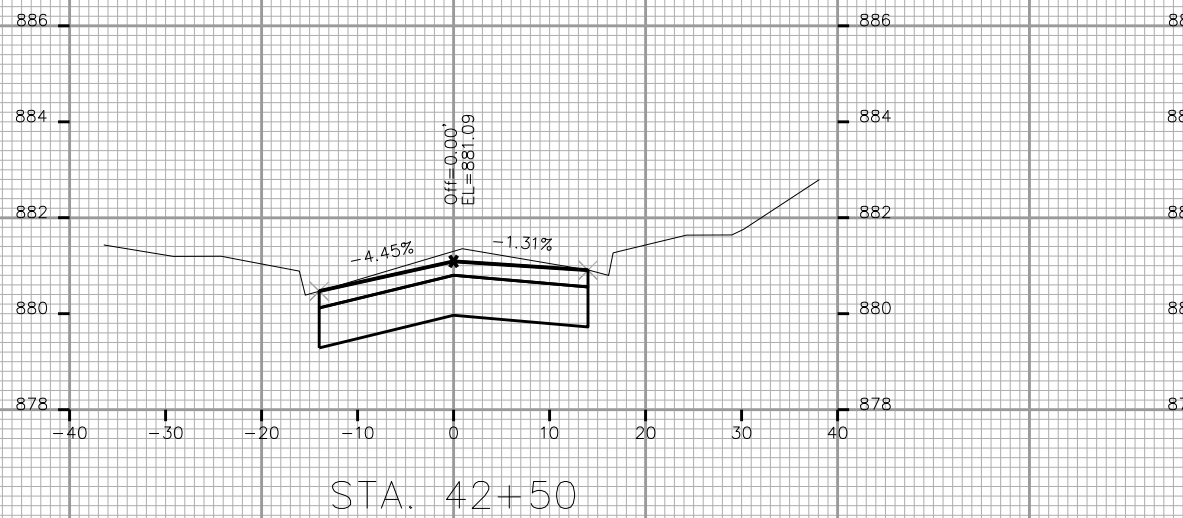
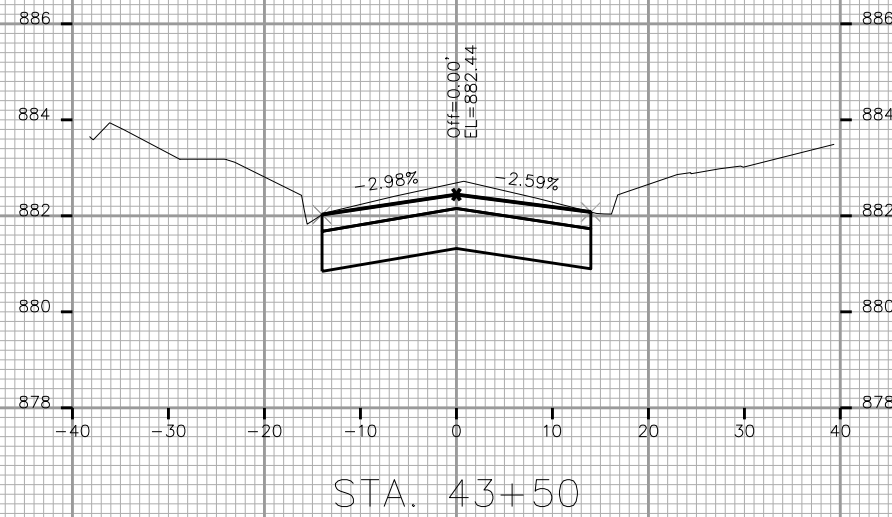
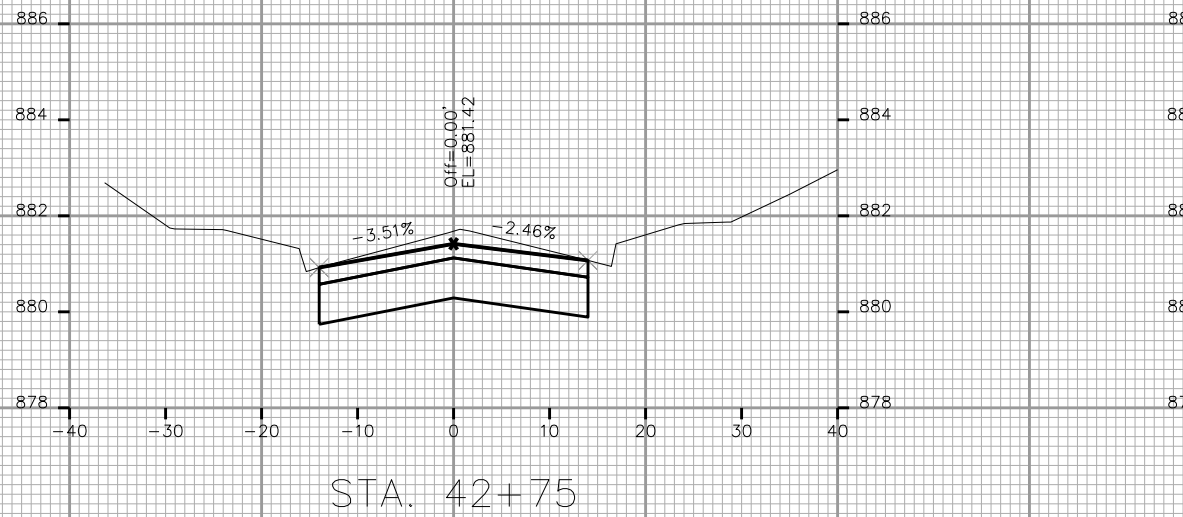
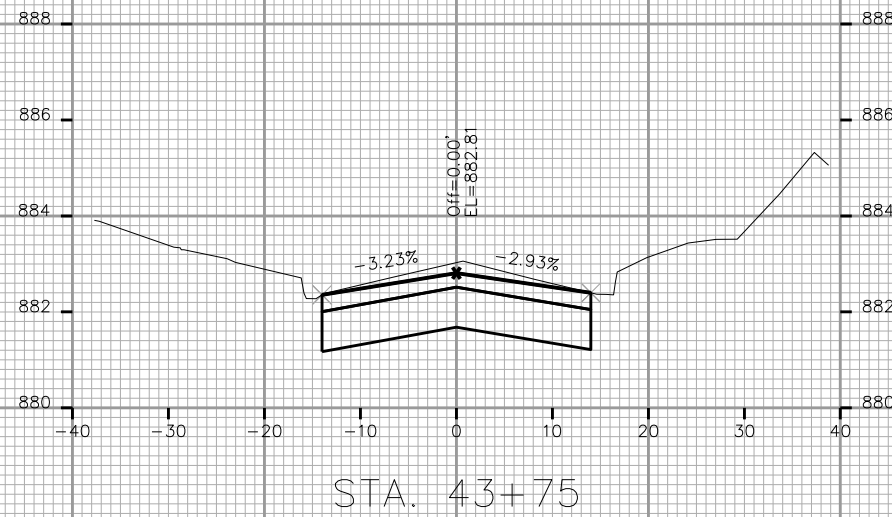
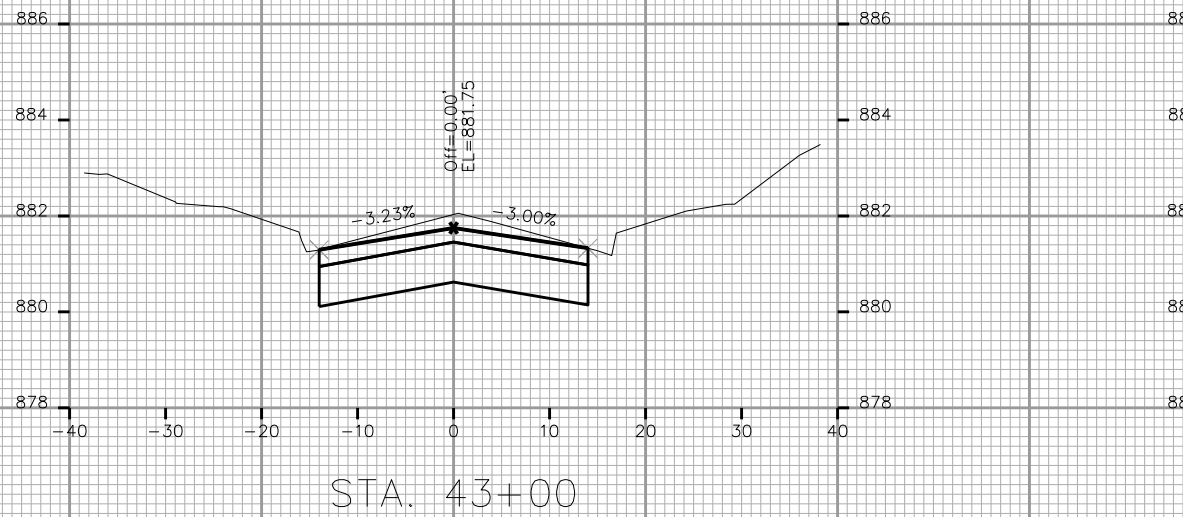
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

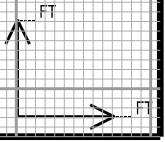
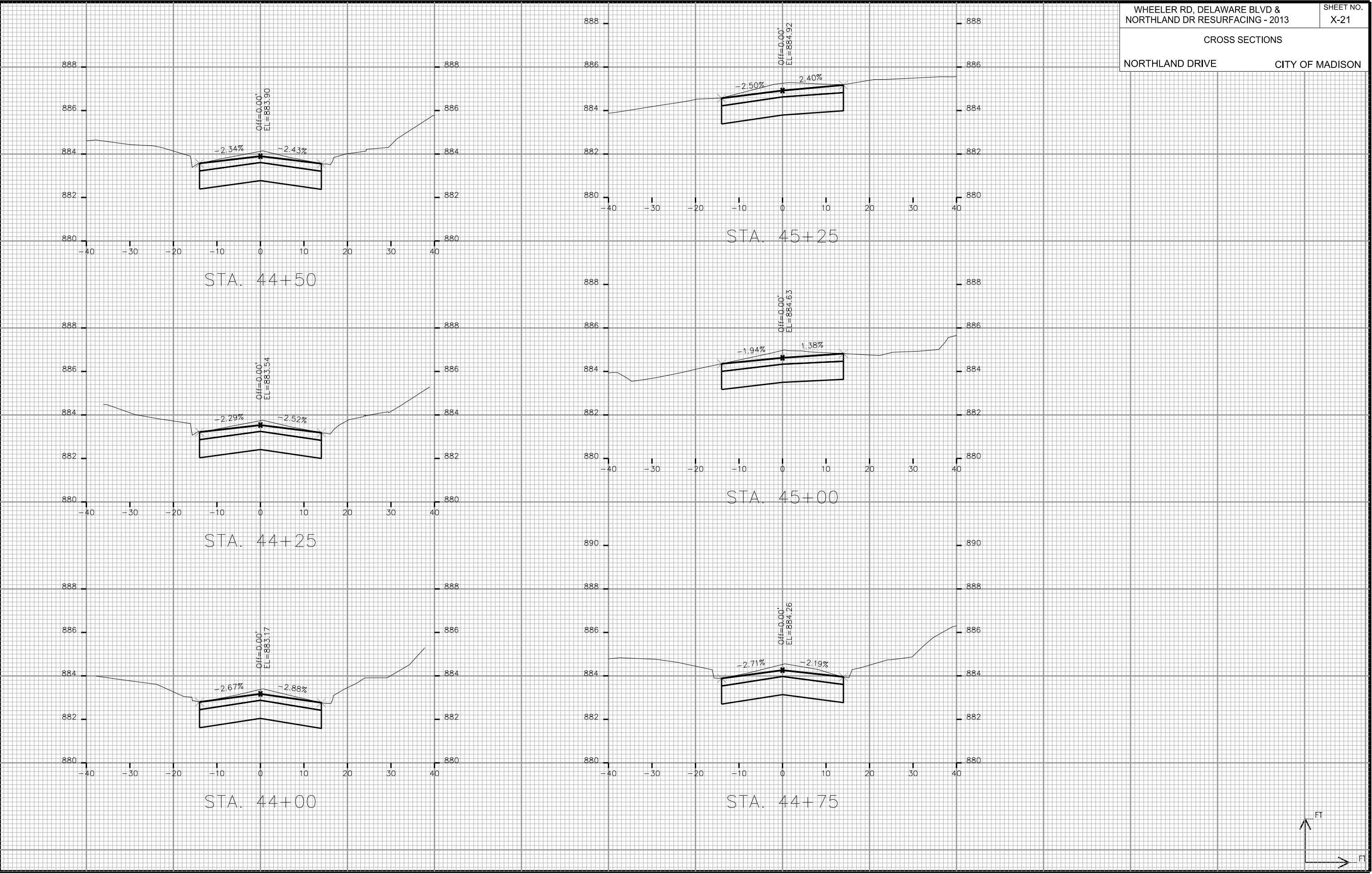
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

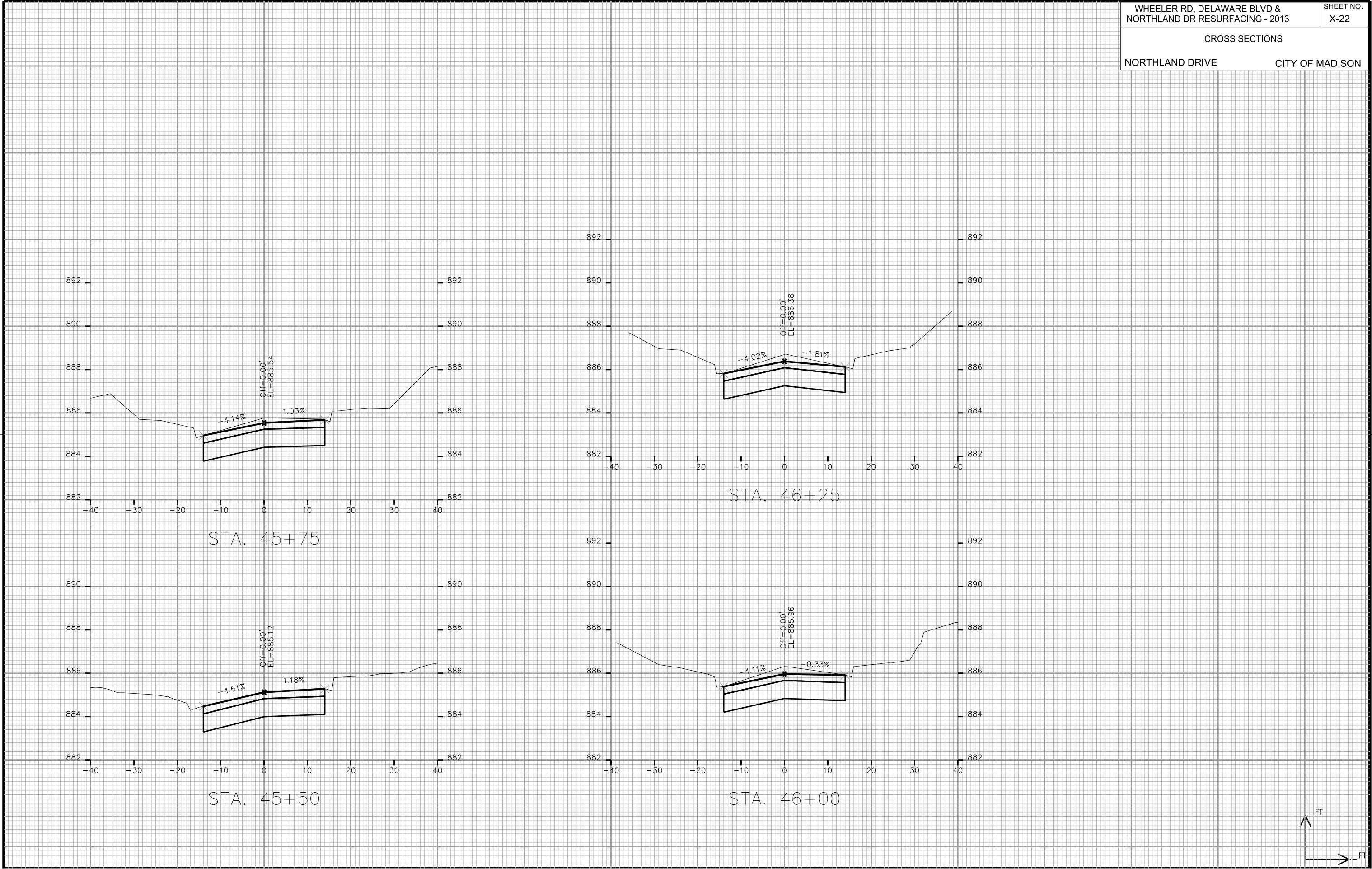


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

NORTHLAND DRIVE

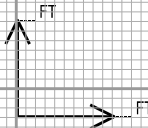
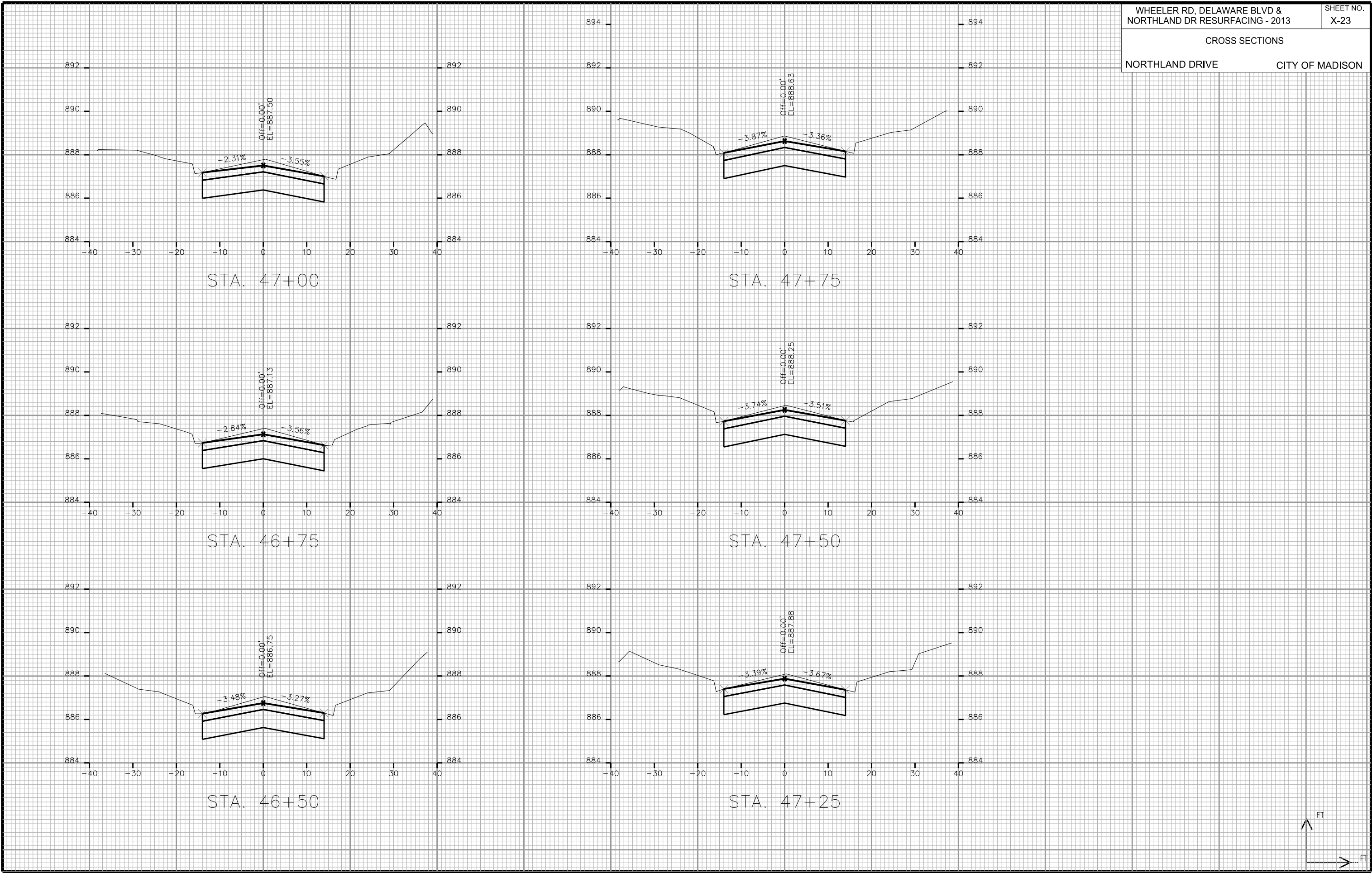
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

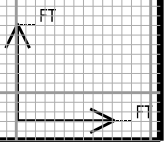
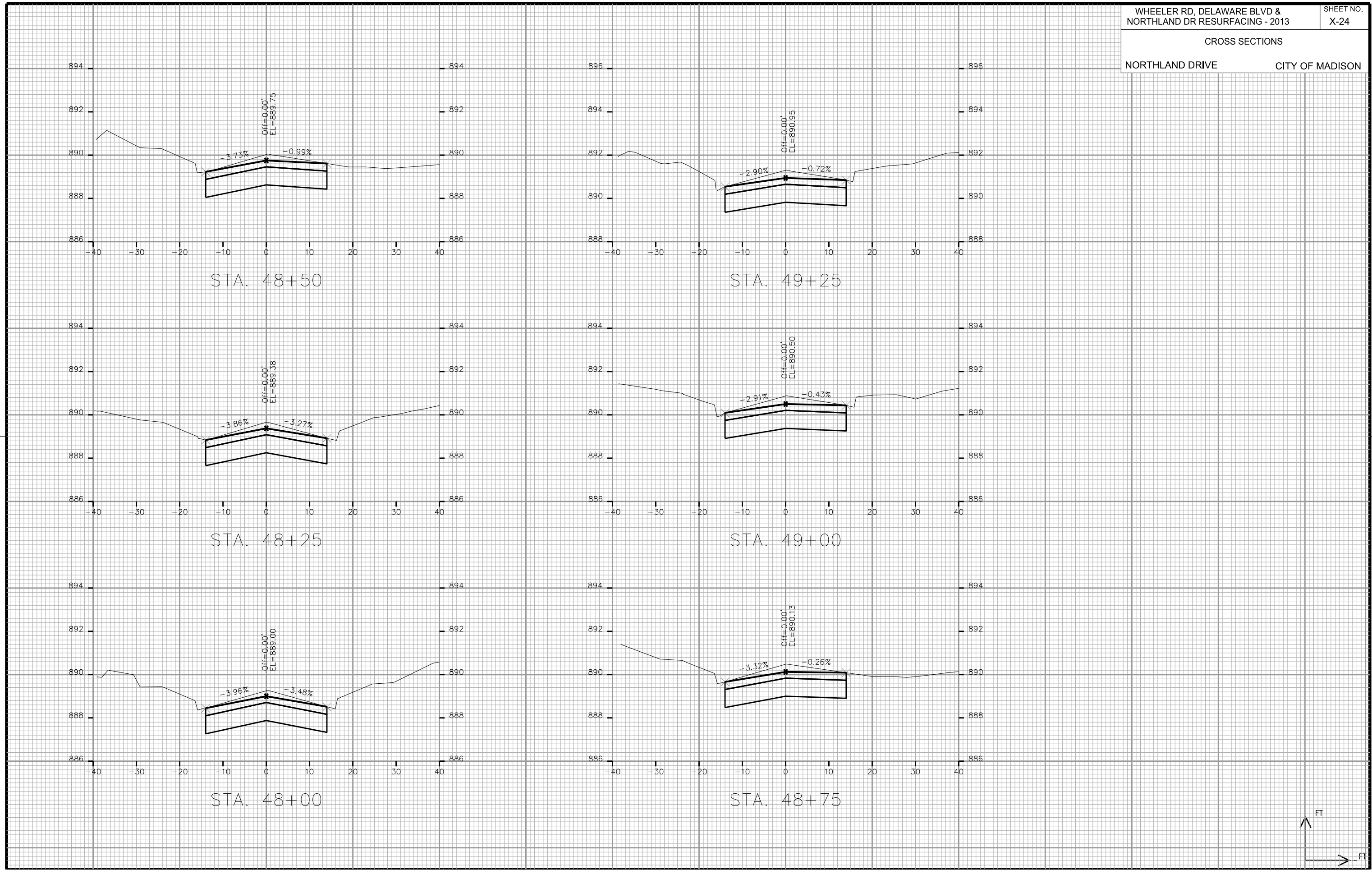


PLOT SCALE: _____

PLOT NAME: _____

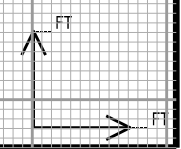
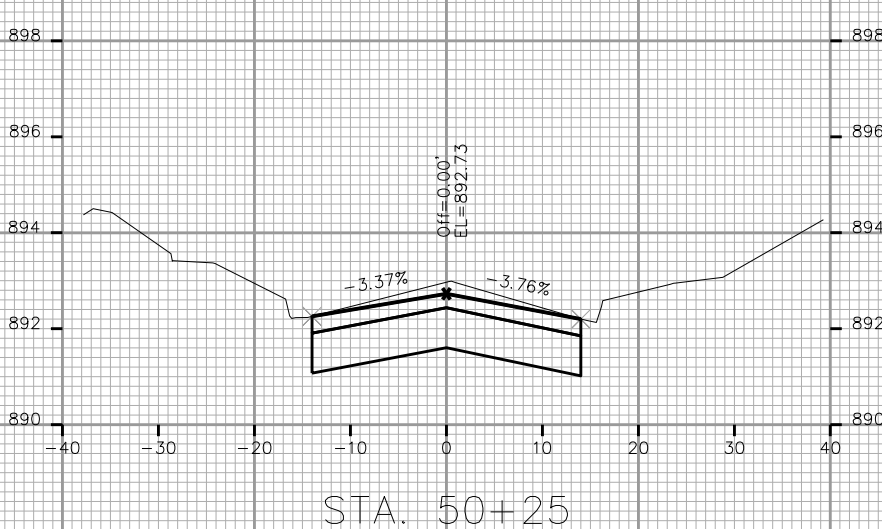
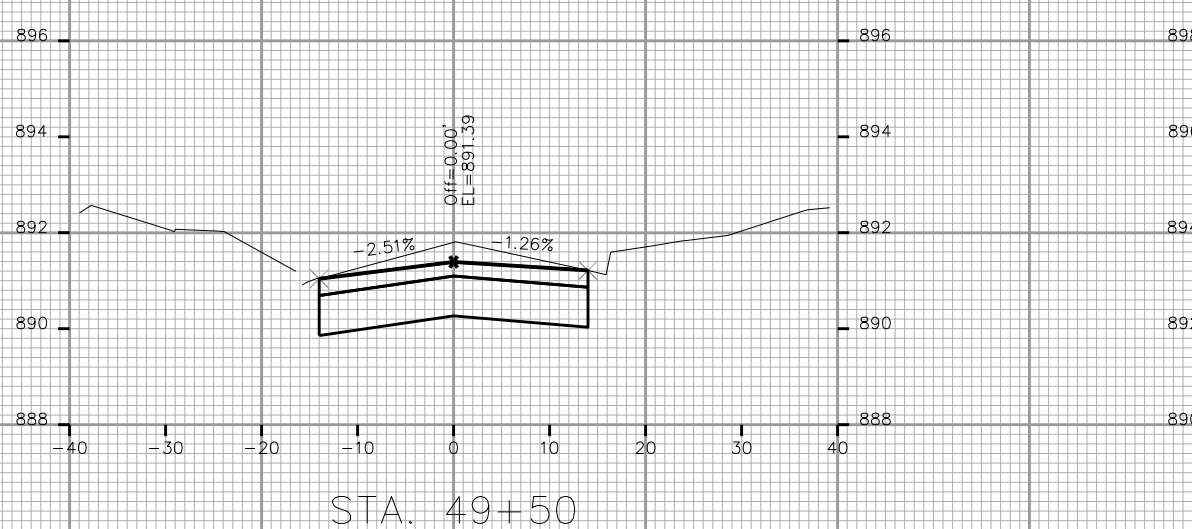
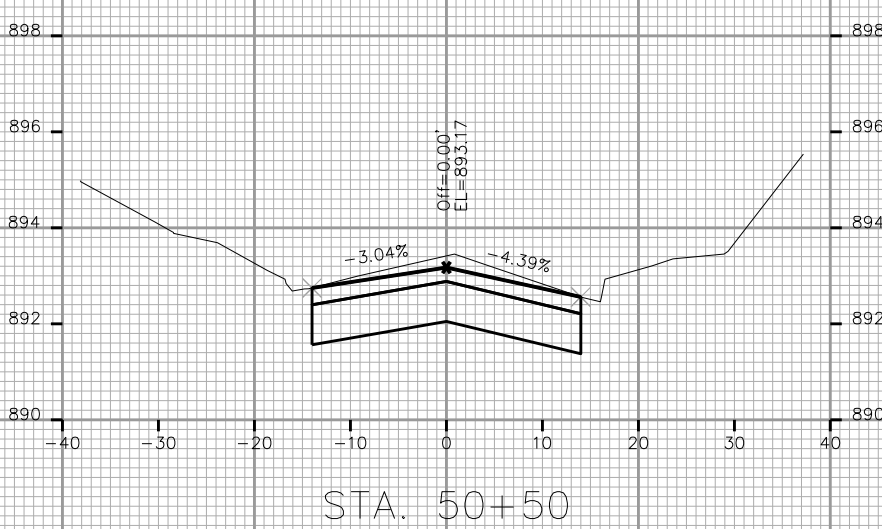
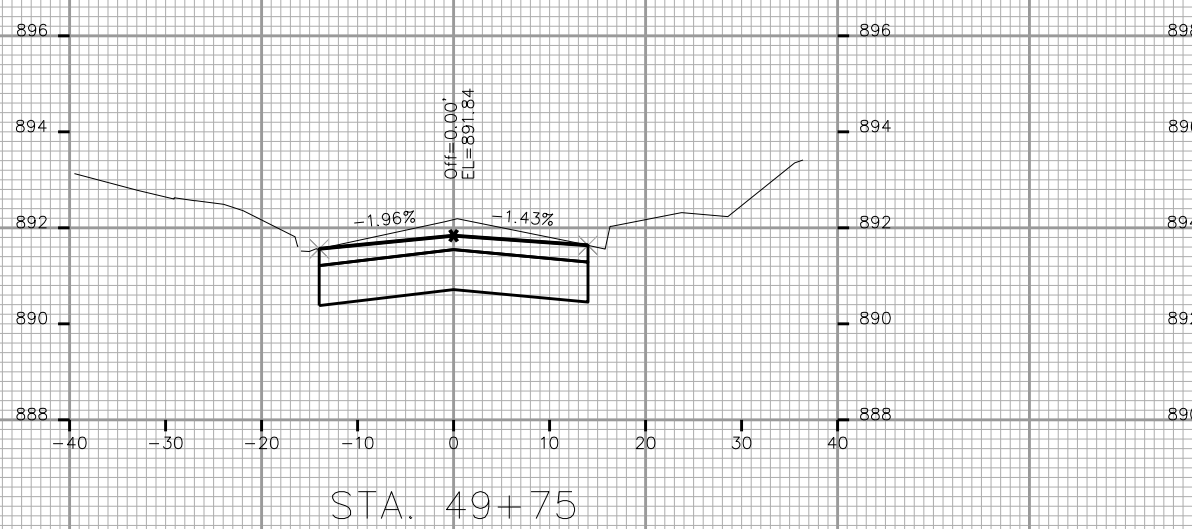
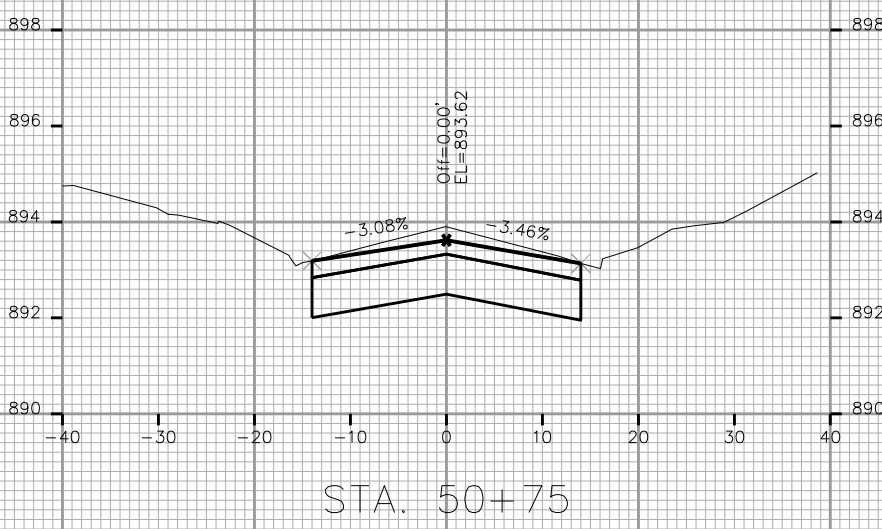
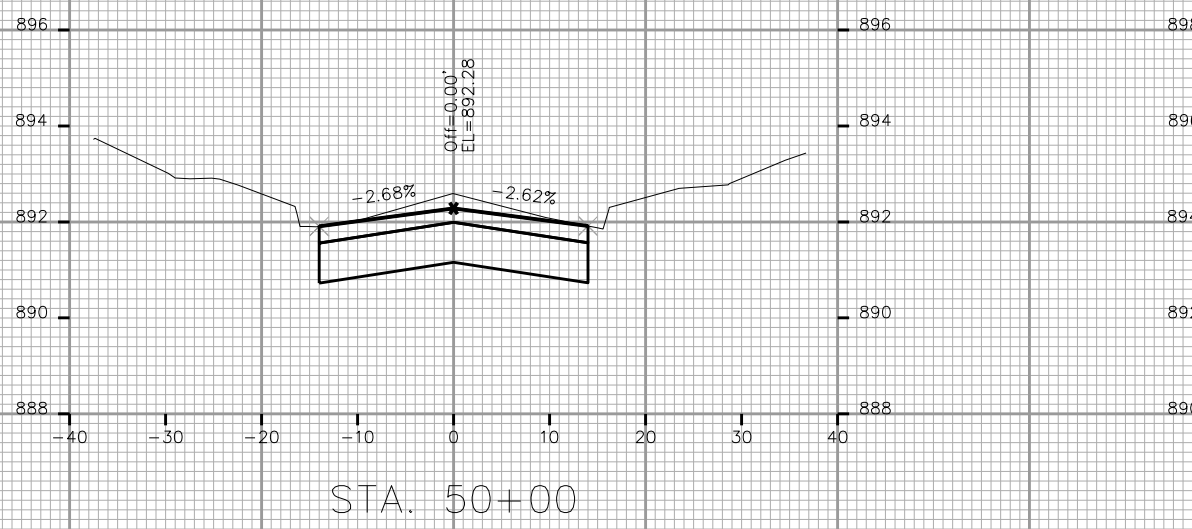
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

NORTHLAND DRIVECITY OF MADISON

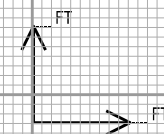
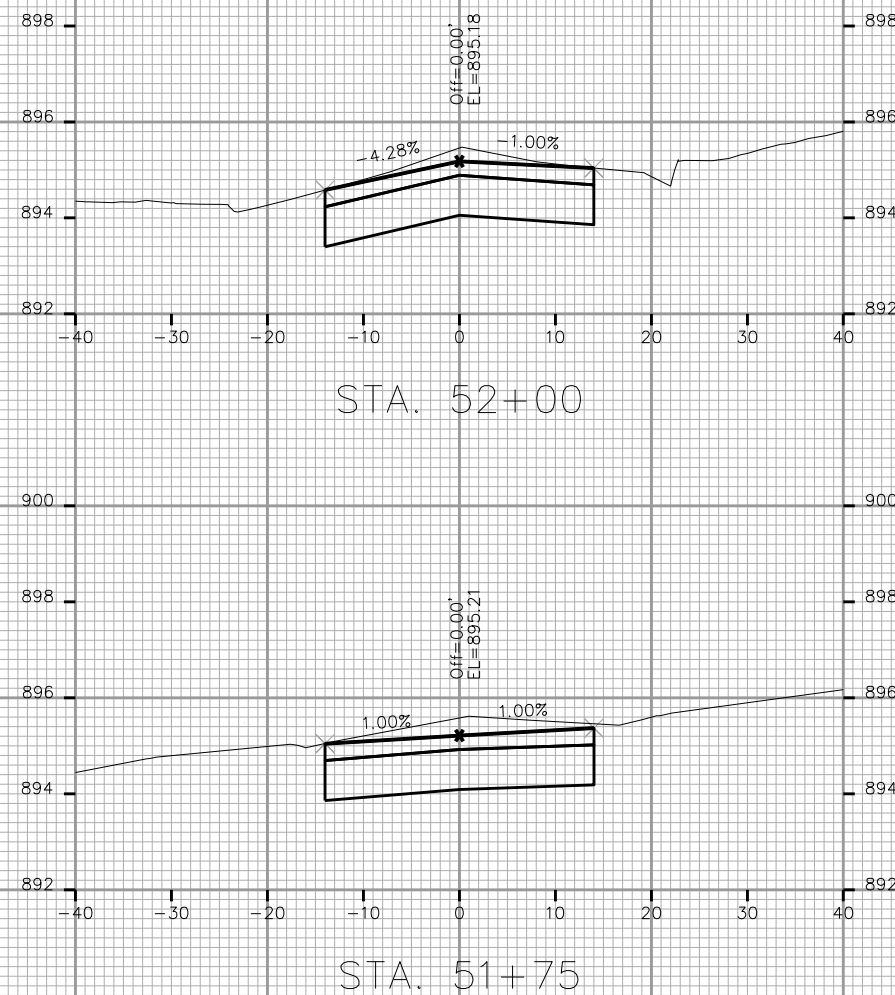
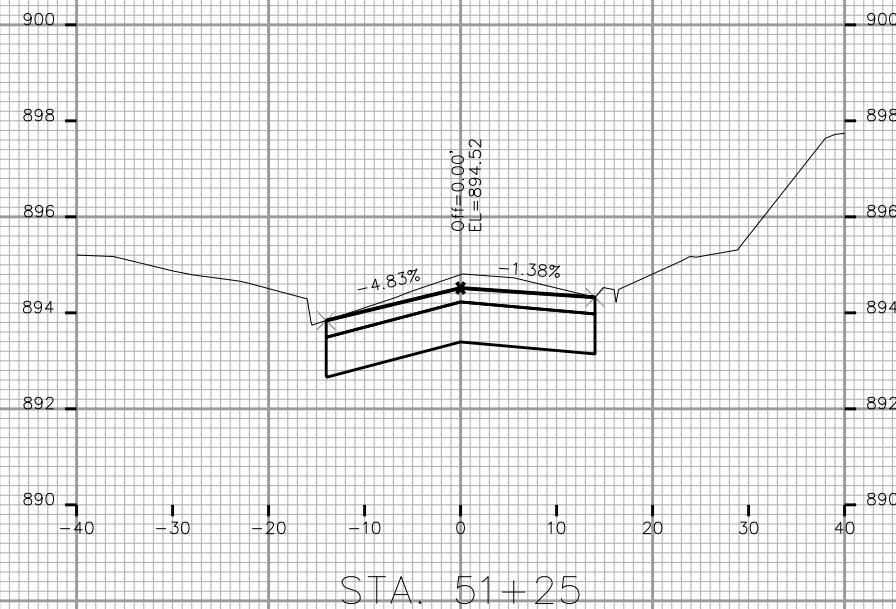
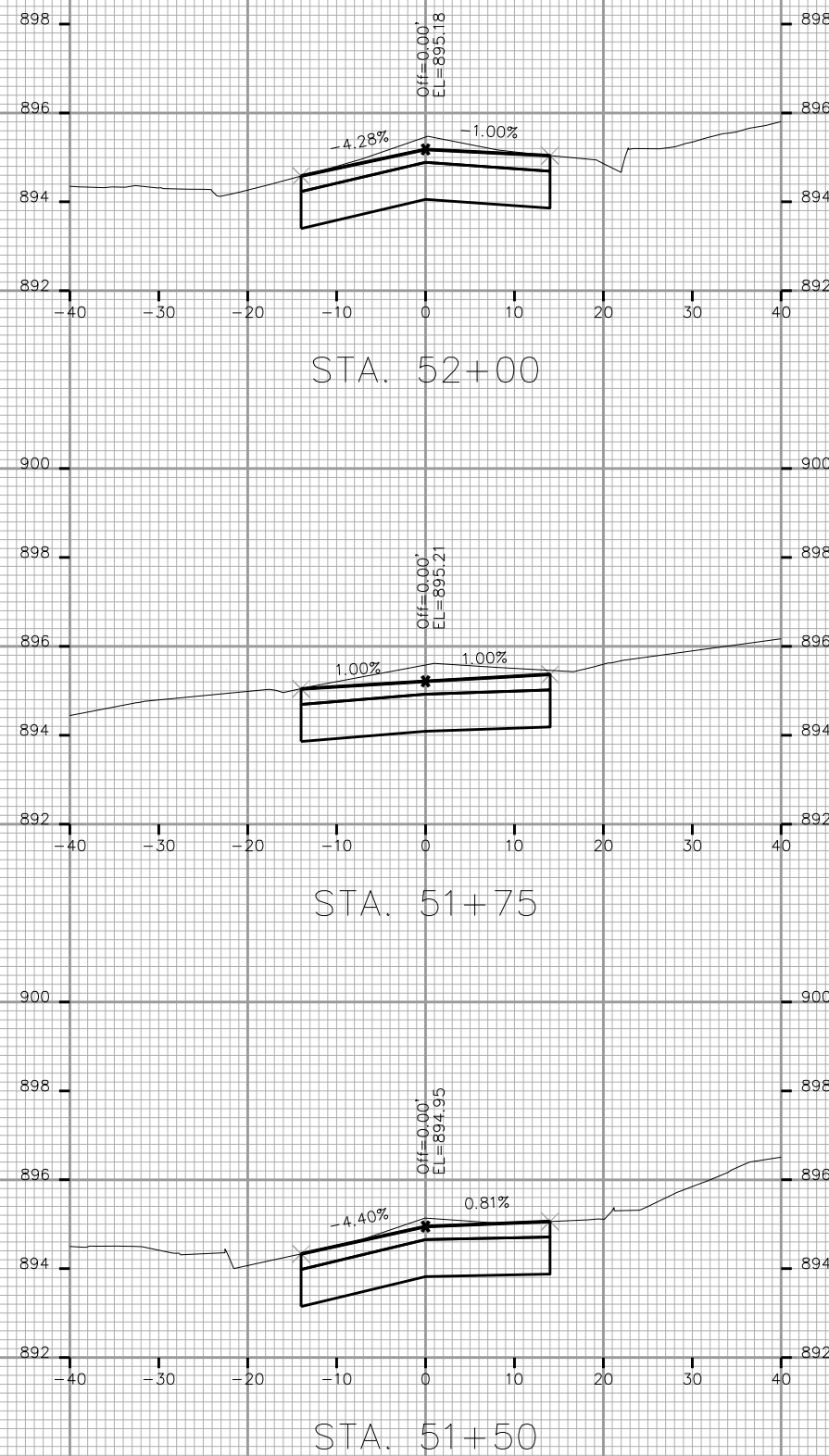
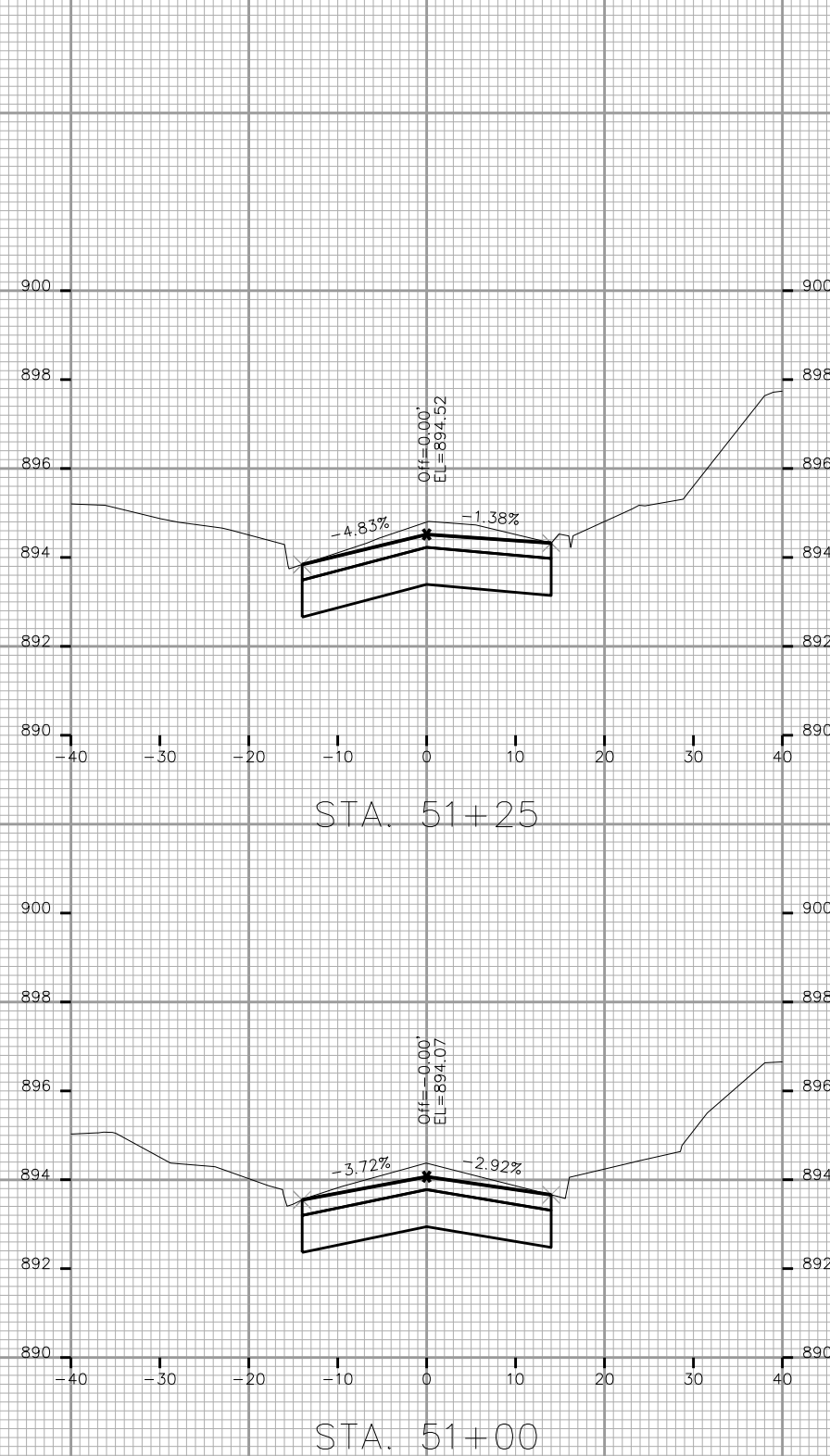


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

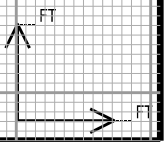
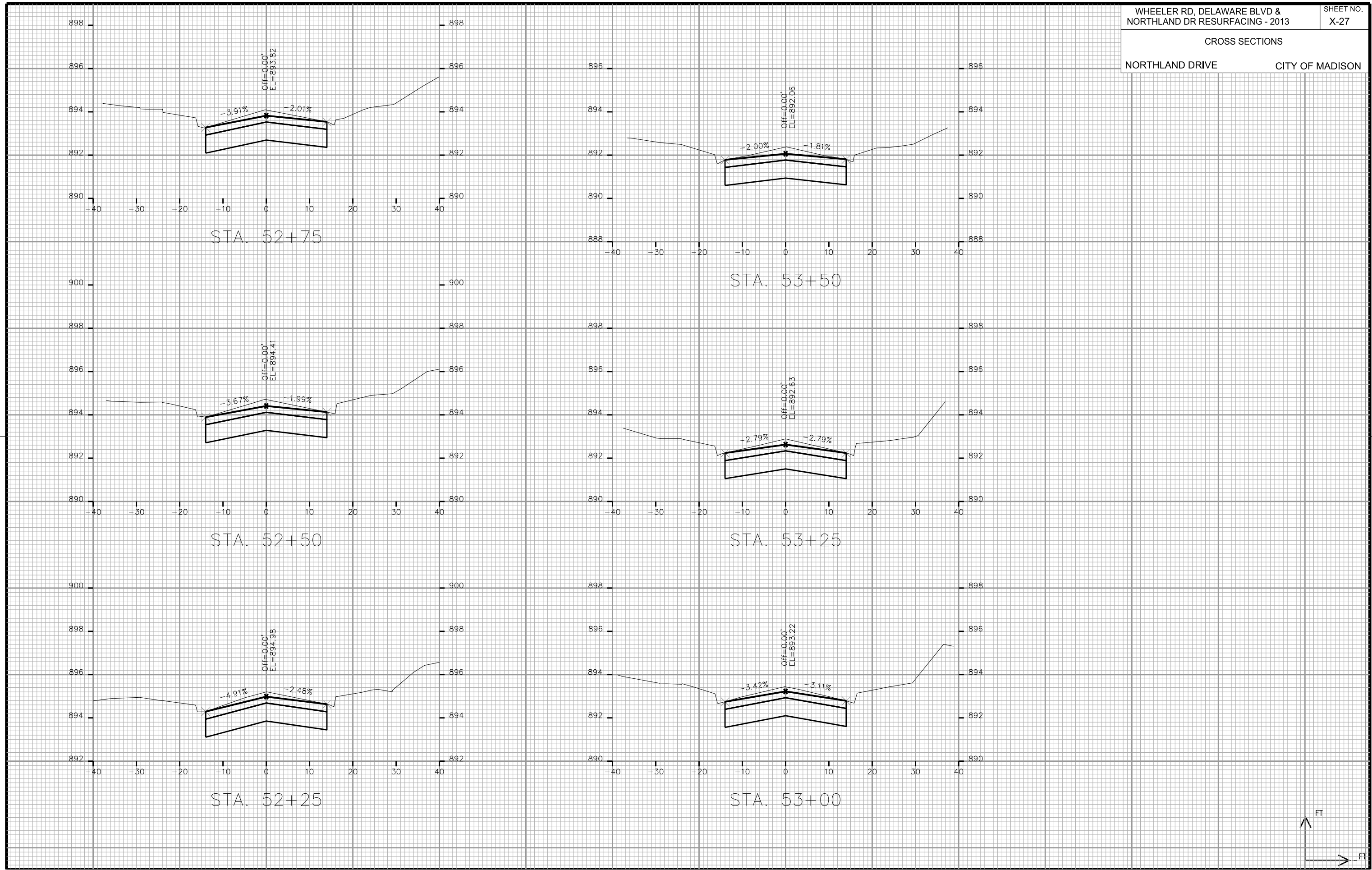


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

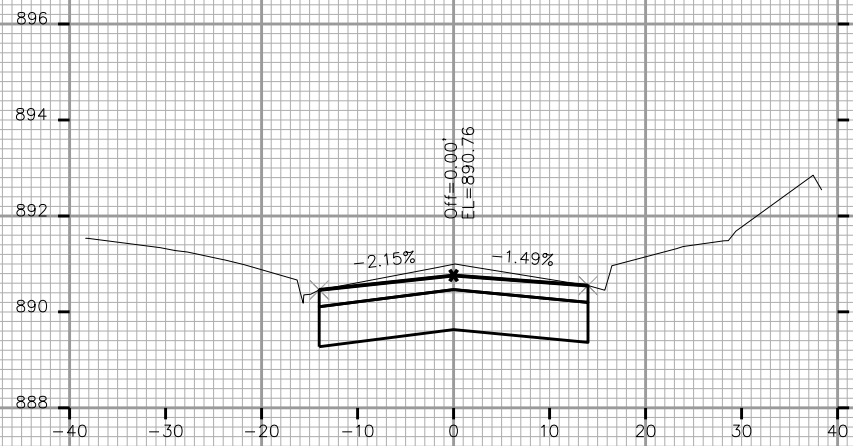


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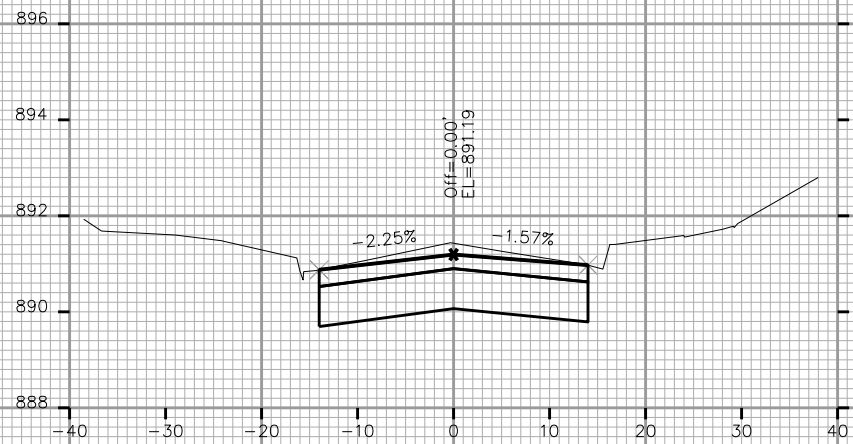
PLOT NAME: _____

REV. DATE: _____

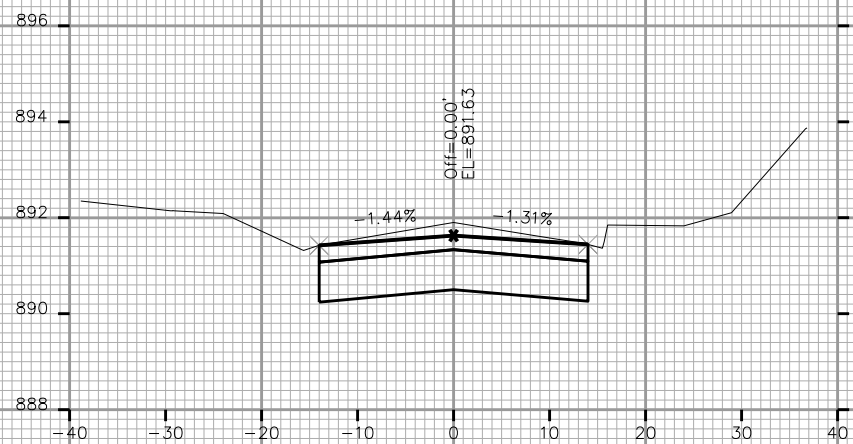
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



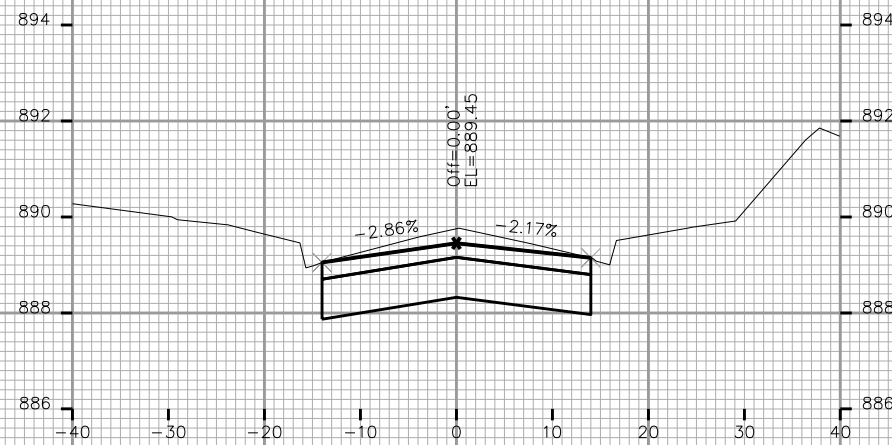
STA. 54+25



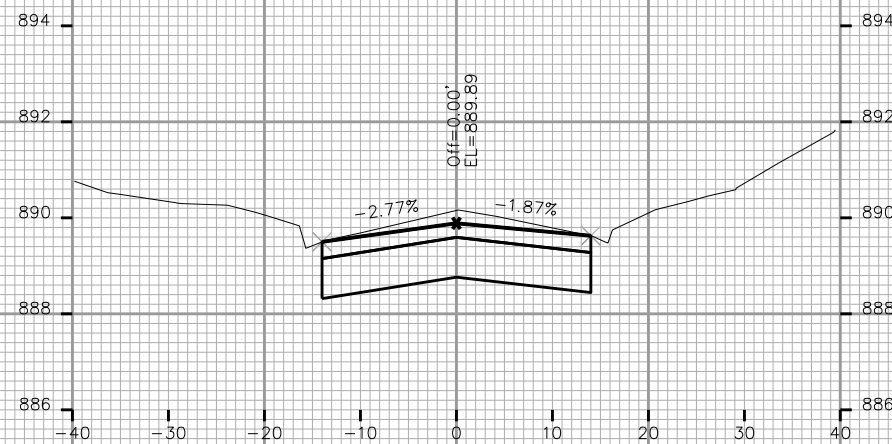
STA. 54+00



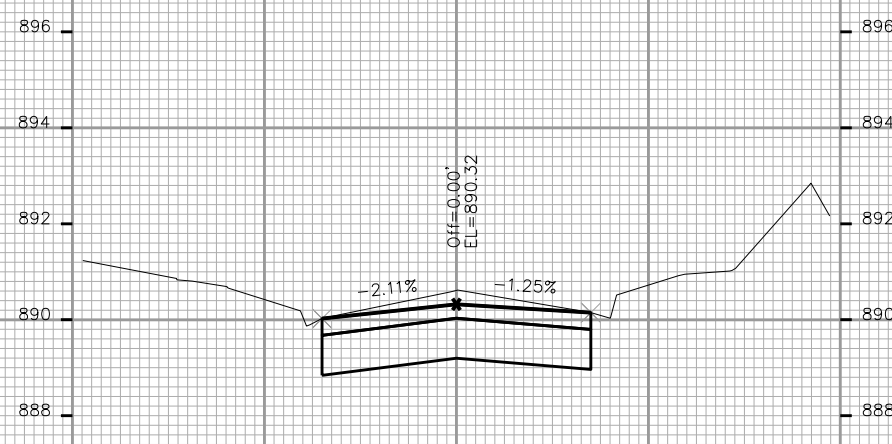
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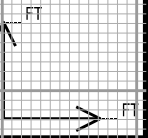
STA. 55+00



STA. 54+75



STA. 54+50



CROSS SECTIONS

NORTHLAND DRIVE

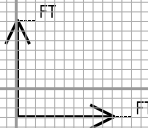
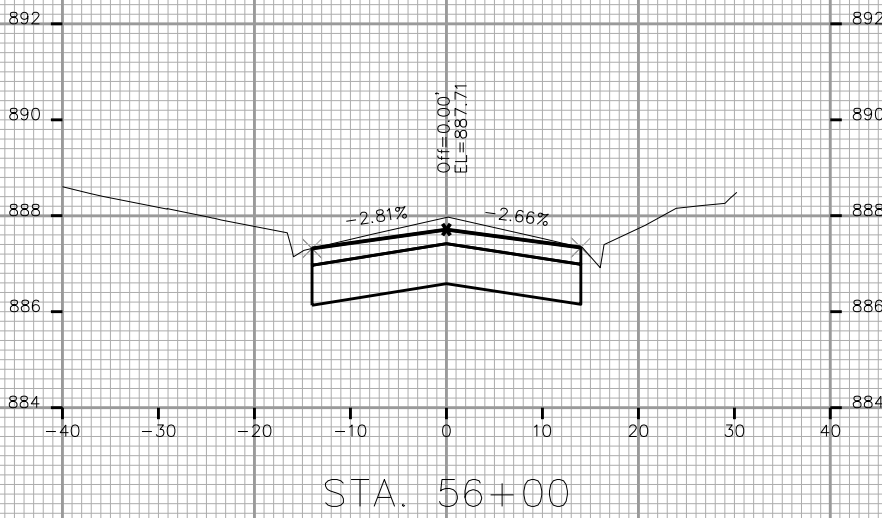
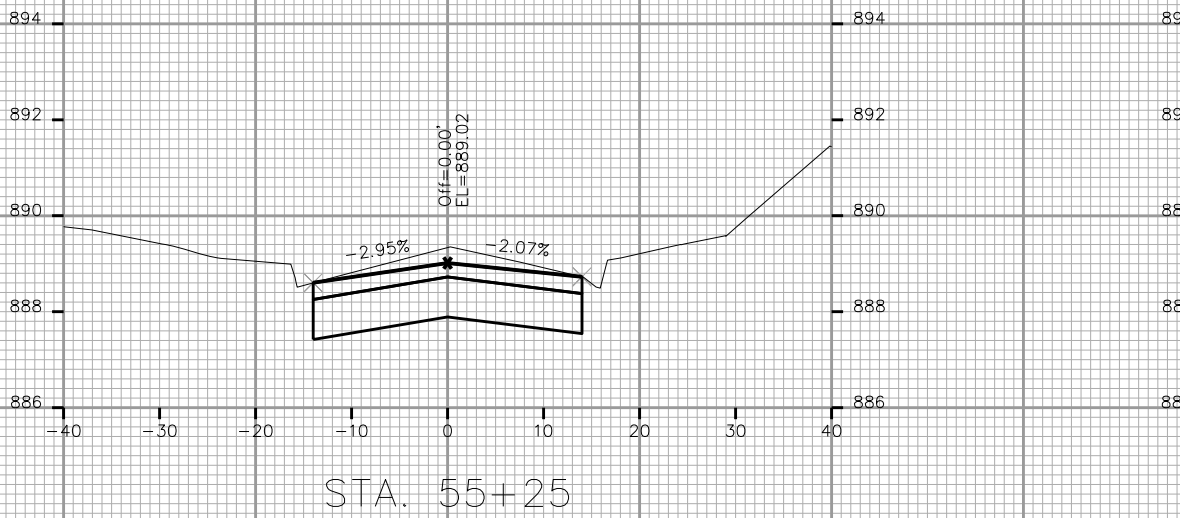
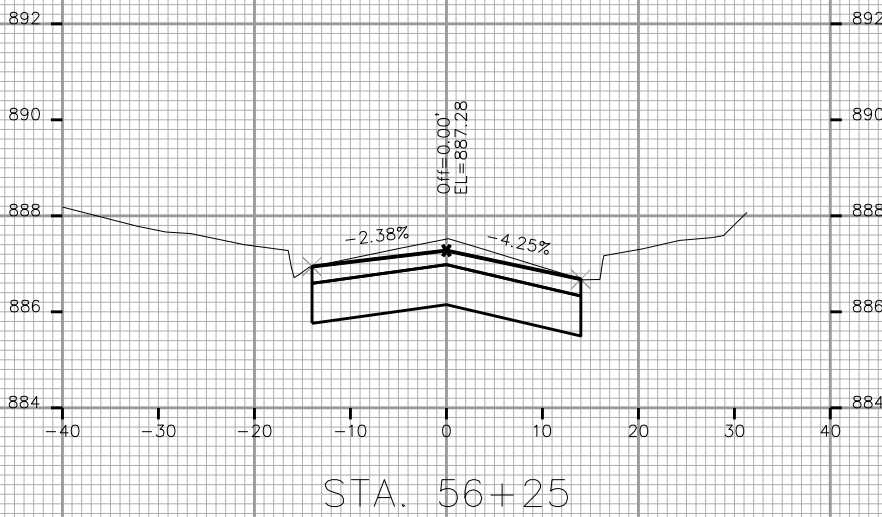
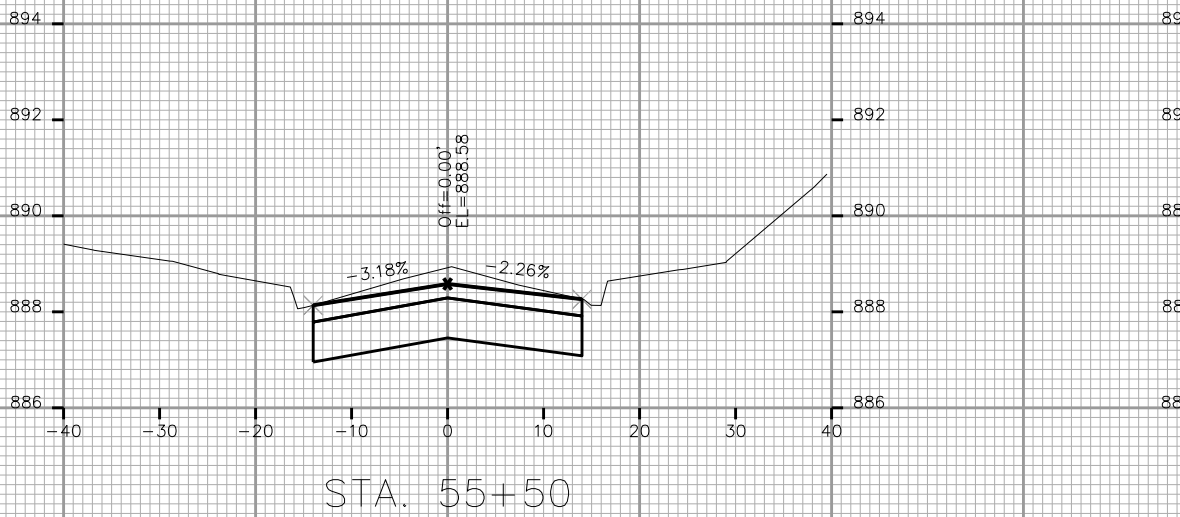
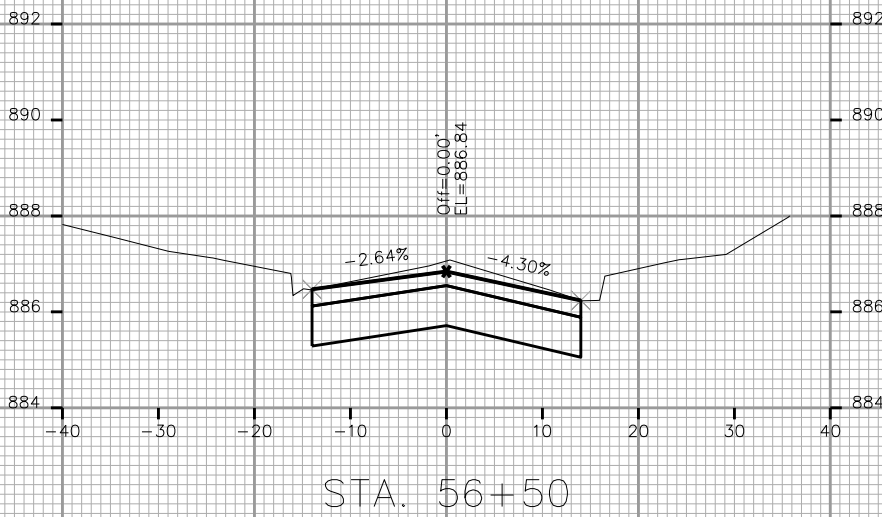
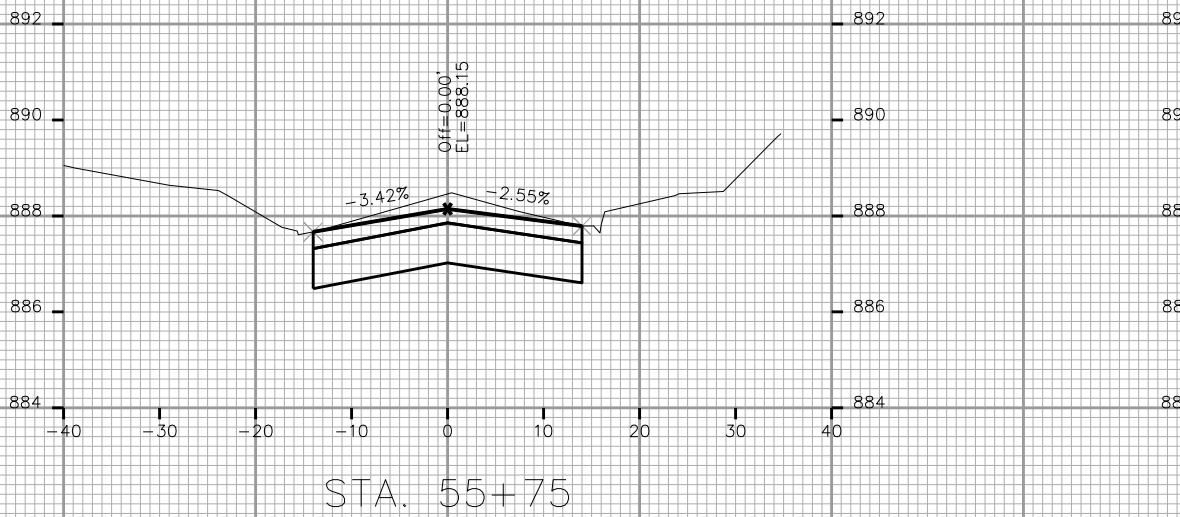
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

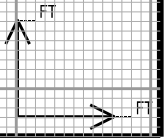
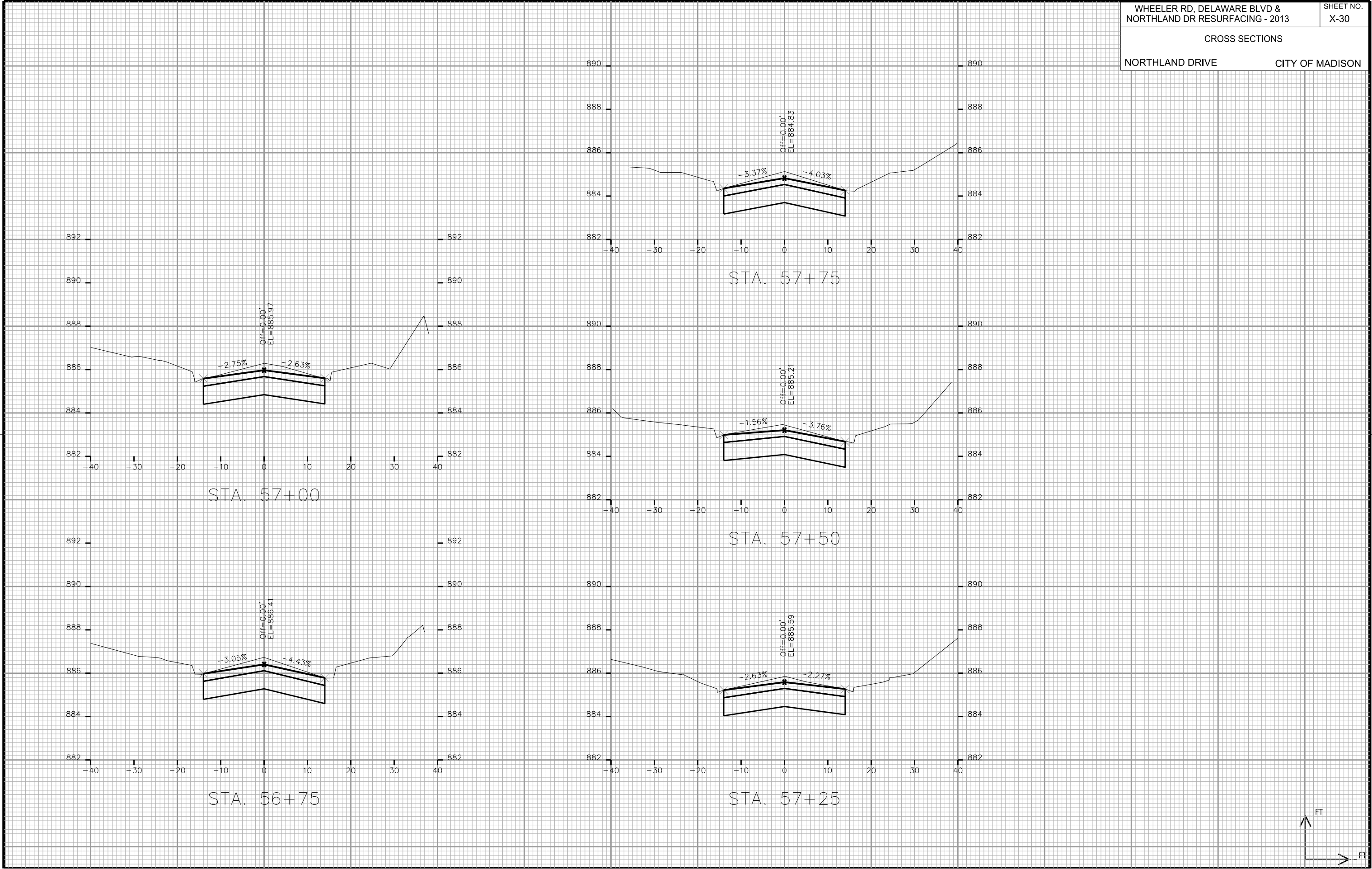


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

