

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

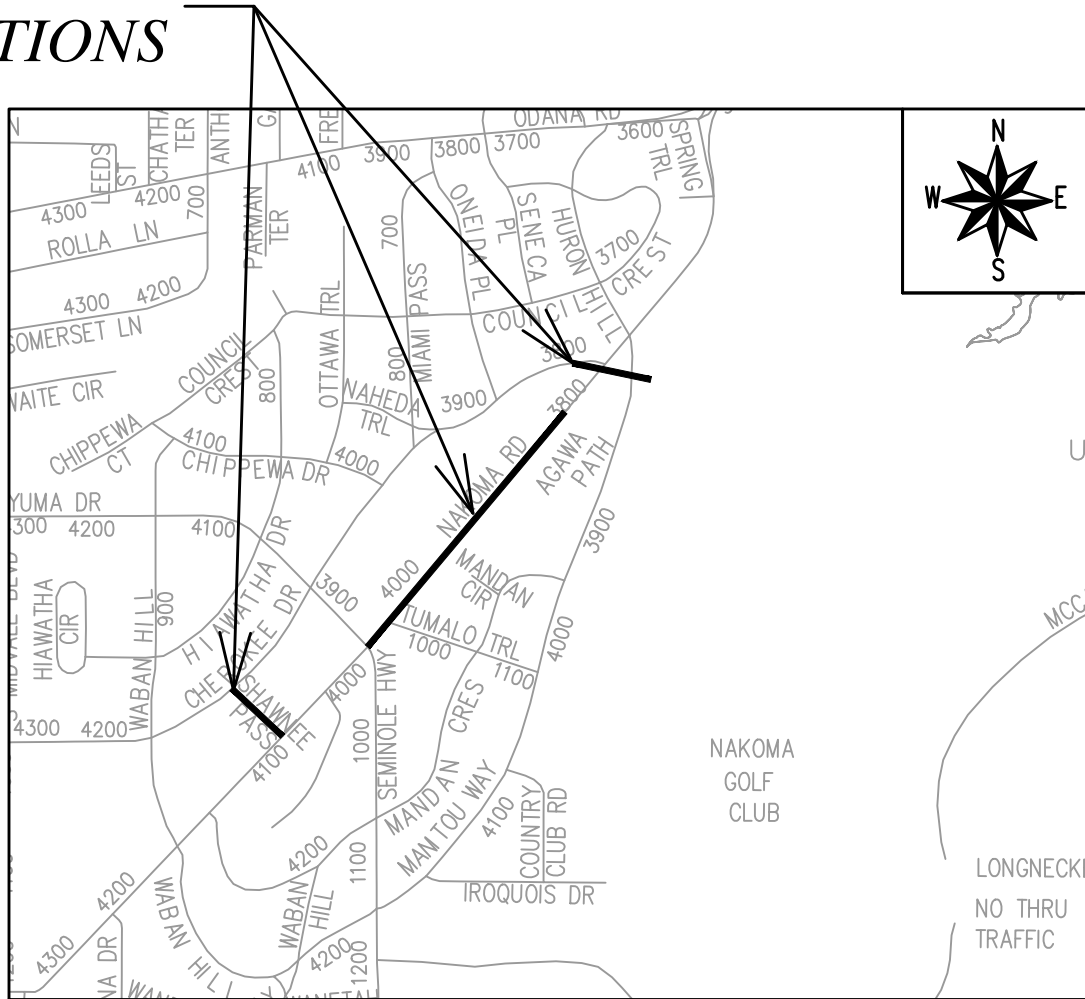
INDEX OF SHEETS

SHEET NO.	D1-D7	TYPICAL SECTIONS, NOTES, AND DETAILS
SHEET NO.	EC1-EC2	EROSION CONTROL PLANS
SHEET NO.	P1-P5	STREET PLAN & PROFILES
SHEET NO.	U1-U5	UTILITY PLAN & PROFILES
SHEET NO.	U6	SANITARY SEWER SCHEDULE
SHEET NO.	U7-U9	STORM SEWER SCHEDULE
SHEET NO.	MI-M5	PAVEMENT MARKING PLANS
SHEET NO.	X1-X7	CROSS SECTIONS
SHEET NO.	MN1	MAINTENANCE PLAN (CITY USE ONLY)

SHAWNEE PASS ASSESSMENT DISTRICT 2025, NAKOMA SIDEWALK, AND NAKOMA CULVERT

CITY PROJECT NO. 11822
CONTRACT NO. 8783

PROJECT LOCATIONS



ADDENDUM #1 - 4/8/25
REVISED THE FOLLOWING:
D-3, D-5, P-5, U-5, U-7

CONVENTIONAL SIGNS FIELD VERIFY ALL UTILITY LOCATIONS

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

NOTES:

- ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.
- 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)	=1,410 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT	= 80 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT	=1,490 C.Y.

PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 11, 2025

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Julie

Apr 4, 2025

City Engineer

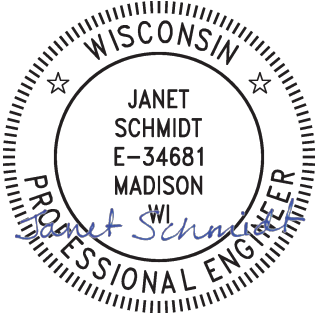
Date

STREET
DESIGNED BY:



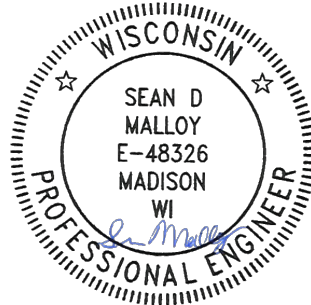
Apr 4, 2025

STORM SEWER
DESIGNED BY:



Apr 4, 2025

PAVEMENT MARKING
DESIGNED BY:



Apr 4, 2025

SANITARY SEWER
DESIGNED BY:



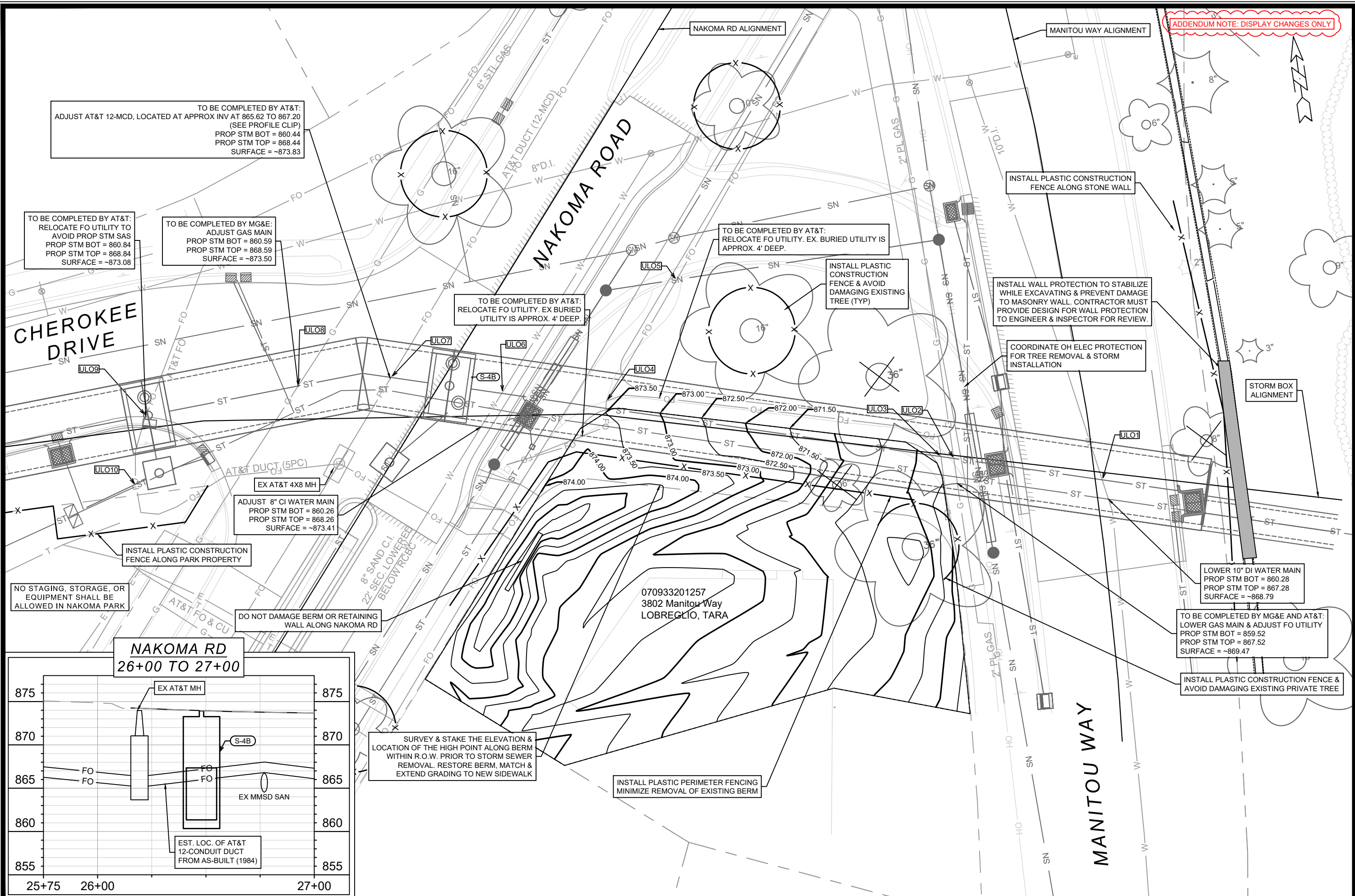
Apr 4, 2025

PLOT SCALE: 1 IN=1 FT_XREF

PLOT NAME: ---

REV. DATE: 4/3/2025 10:48 AM

ORIGINATOR: CITY_OF_MADISON



ADDENDUM NOTE: DISPLAY CHANGES ONLY

TO BE COMPLETED BY AT&T:
ADJUST AT&T 12-MCD, LOCATED AT APPROX INV AT 865.62 TO 867.20
(SEE PROFILE CLIP)
PROP STM BOT = 860.44
PROP STM TOP = 868.44
SURFACE = ~873.83

TO BE COMPLETED BY AT&T:
RELOCATE FO UTILITY TO
AVOID PROP STM SAS
PROP STM BOT = 860.84
PROP STM TOP = 868.84
SURFACE = ~873.08

TO BE COMPLETED BY MG&E:
ADJUST GAS MAIN
PROP STM BOT = 860.59
PROP STM TOP = 868.59
SURFACE = ~873.50

TO BE COMPLETED BY AT&T:
RELOCATE FO UTILITY. EX BURIED
UTILITY IS APPROX. 4' DEEP.

TO BE COMPLETED BY AT&T:
RELOCATE FO UTILITY. EX. BURIED UTILITY IS
APPROX. 4' DEEP.

INSTALL PLASTIC
CONSTRUCTION
FENCE & AVOID
DAMAGING EXISTING
TREE (TYP)

INSTALL PLASTIC CONSTRUCTION
FENCE ALONG STONE WALL

INSTALL WALL PROTECTION TO STABILIZE
WHILE EXCAVATING & PREVENT DAMAGE
TO MASONRY WALL. CONTRACTOR MUST
PROVIDE DESIGN FOR WALL PROTECTION
TO ENGINEER & INSPECTOR FOR REVIEW.

COORDINATE OH ELEC PROTECTION
FOR TREE REMOVAL & STORM
INSTALLATION

STORM BOX
ALIGNMENT

LOWER 10" DI WATER MAIN
PROP STM BOT = 860.28
PROP STM TOP = 867.28
SURFACE = ~868.79

TO BE COMPLETED BY MG&E AND AT&T:
LOWER GAS MAIN & ADJUST FO UTILITY
PROP STM BOT = 859.52
PROP STM TOP = 867.52
SURFACE = ~869.47

INSTALL PLASTIC CONSTRUCTION FENCE &
AVOID DAMAGING EXISTING PRIVATE TREE

NO STAGING, STORAGE, OR
EQUIPMENT SHALL BE
ALLOWED IN NAKOMA PARK

INSTALL PLASTIC CONSTRUCTION
FENCE ALONG PARK PROPERTY

ADJUST 8" CI WATER MAIN
PROP STM BOT = 860.26
PROP STM TOP = 868.26
SURFACE = ~873.41

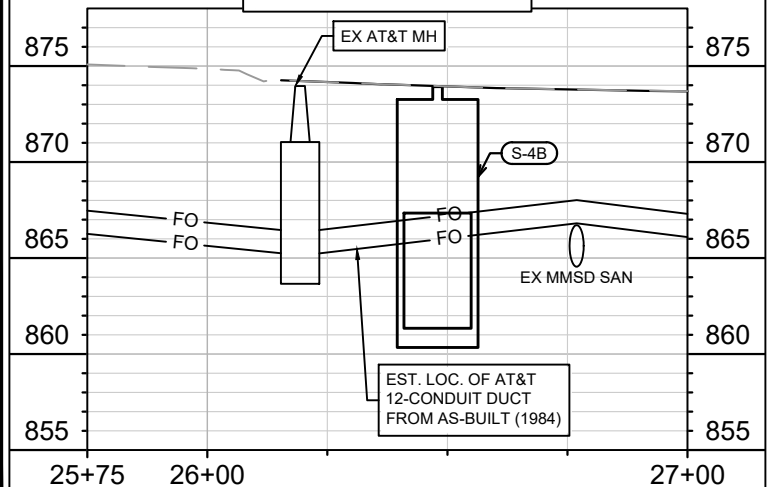
DO NOT DAMAGE BERM OR RETAINING
WALL ALONG NAKOMA RD

SURVEY & STAKE THE ELEVATION &
LOCATION OF THE HIGH POINT ALONG BERM
WITHIN R.O.W. PRIOR TO STORM SEWER
REMOVAL. RESTORE BERM, MATCH &
EXTEND GRADING TO NEW SIDEWALK

INSTALL PLASTIC PERIMETER FENCING
MINIMIZE REMOVAL OF EXISTING BERM

070933201257
3802 Manitou Way
LOBREGGIO, TARA

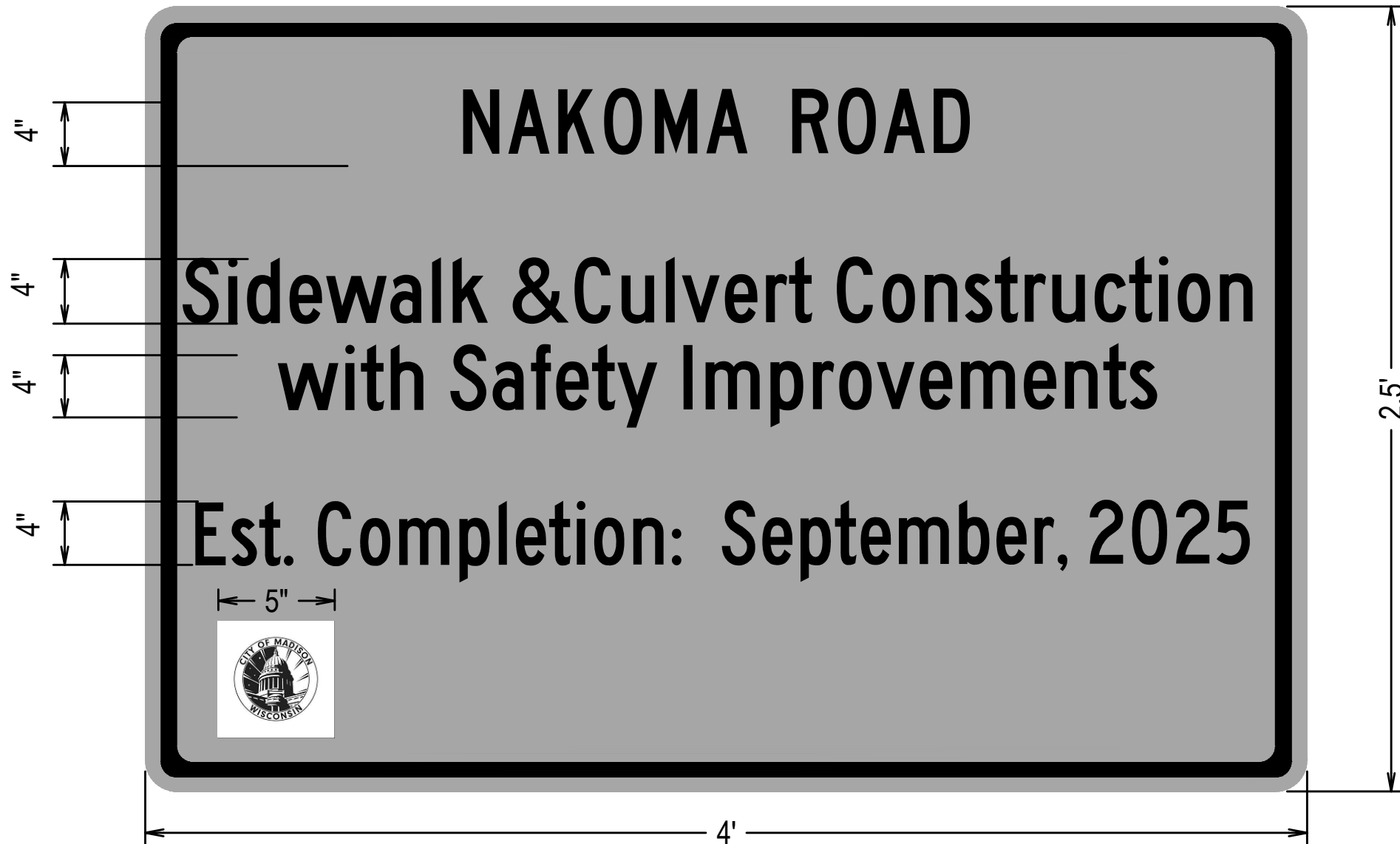
NAKOMA RD
26+00 TO 27+00



11822		11822		11822	
SHAWNEE PASS, NAKOMA SIDEWALK, AND NAKOMA CULVERT		MADISON, WI		8783	
ULO, PRIVATE UTILITY NOTES, & 3802 MANITOU WAY GRADING		CONTRACT NO.:		11822	
M:\DESIGN\Projects\11822\CAD\Sewers\11822SWR-PipeNetwork.dwg		Scale: 1" = 20'		D-3	

11822
D-3

ADDENDUM 1: MFG 4/8/25
CHANGED AUGUST ESTIMATED COMPLETION TO
SEPTEMBER



Notes:

1. COLOR
 BACKGROUND = ORANGE
 MESSAGE = BLACK
 BORDER = BLACK
2. LETTERING SERIES = C
3. MINIMUM SIGN REFLECTIVITY = HIGH INTENSITY PRISMATIC GRADE
4. SIGN MATERIAL MAY BE PLASTIC OR METAL
5. CONTRACTOR SHALL MAINTAIN SIGNS FOR DURATION OF PROJECT ATTACHED TO TYPE III BARRICADE



11822

D-5

CONSTRUCTION SIGN DETAIL

SHAWNEE PASS, NAKOMA SIDEWALK, AND NAKOMA CULVERT

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CONTRACT NO:

8783

11822

MADISON, WI

8783

REVISION

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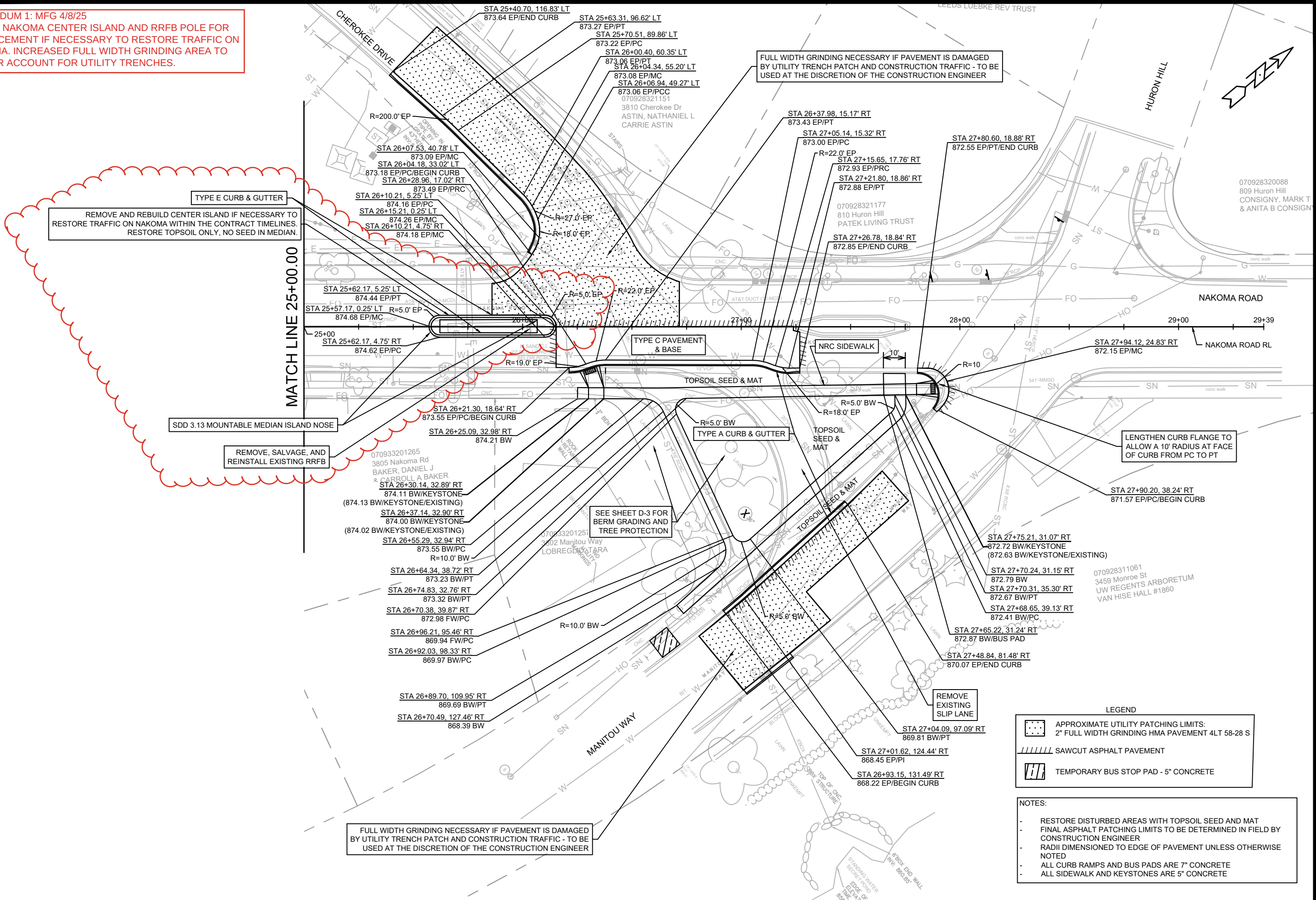
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ADDENDUM 1: MFG 4/8/25
ADDED NAKOMA CENTER ISLAND AND RRFB POLE FOR
REPLACEMENT IF NECESSARY TO RESTORE TRAFFIC ON
NAKOMA. INCREASED FULL WIDTH GRINDING AREA TO
BETTER ACCOUNT FOR UTILITY TRENCHES.

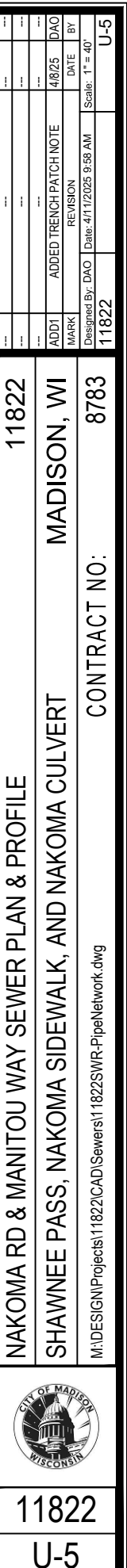
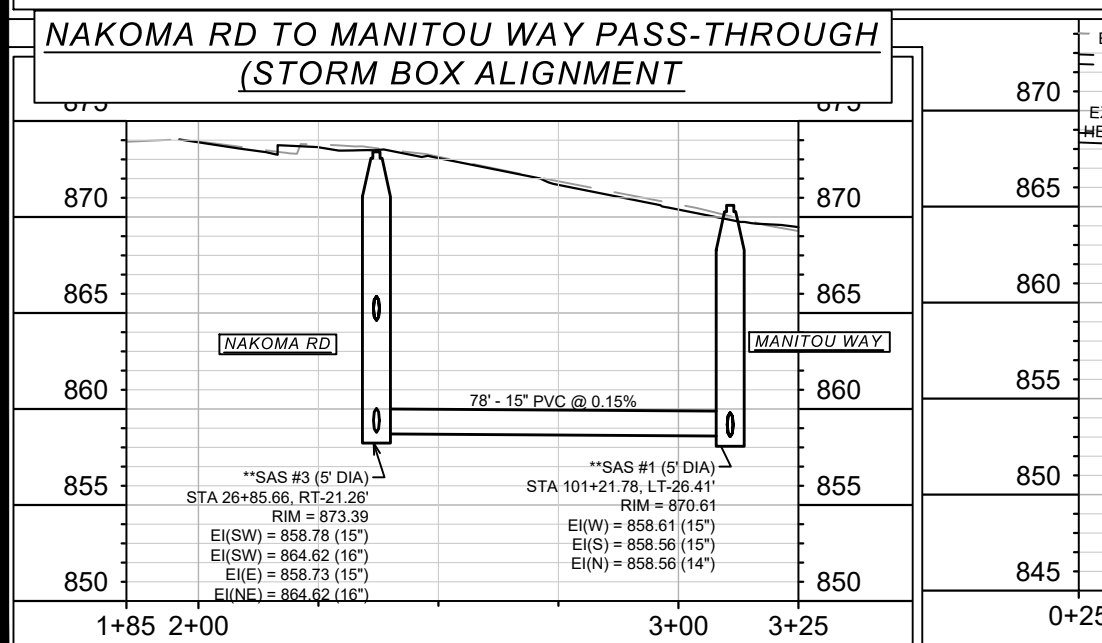


LEGEND

- APPROXIMATE UTILITY PATCHING LIMITS: 2" FULL WIDTH GRINDING HMA PAVEMENT 4LT 58-28 S
- SAWCUT ASPHALT PAVEMENT
- TEMPORARY BUS STOP PAD - 5" CONCRETE

- NOTES:
- RESTORE DISTURBED AREAS WITH TOPSOIL SEED AND MAT
 - FINAL ASPHALT PATCHING LIMITS TO BE DETERMINED IN FIELD BY CONSTRUCTION ENGINEER
 - RADII DIMENSIONED TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED
 - ALL CURB RAMPS AND BUS PADS ARE 7" CONCRETE
 - ALL SIDEWALK AND KEYSTONES ARE 5" CONCRETE

11822		MADISON, WI		CONTRACT NO: 8783	
NAKOMA ROAD PLAN		SHAWNEE PASS, NAKOMA SIDEWALK, AND NAKOMA CULVERT		P-5	
CITY OF MADISON WISCONSIN		M:\DESIGN\Projects\11822\CAD\Streets\11822EN-PnP.dwg		11822	
11822		P-5		P-5	



STORM SEWER SCHEDULE

+ ADDENDUM 1 - 4/8/2025 DAO

NAKOMA SIDEWALK PROJECT NO. 11822	SHEET NO. U-7
STORM SEWER SCHEDULE	
MANITOU WAY STORM BOX REPLACEMENT	CITY OF MADISON

U-7

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MANITOU WAY							
S-1	100+53.94	RT-24.98	6'X14' RCBC WALL	-	860.11	-	[1]
S-2	100+52.55	RT-21.82	MOD TERRACE INL TYPE 2	868.66	866.13	2.53	FP; [2][3]
T-2A	100+56.12	RT-17.19	24" BOX TAP	-	861.50	-	[10]
S-2A	100+12.03	RT-17.20	3'X3' STM SAS	867.57	862.82	4.75	W/R-3067-7004-V
T-2B	100+66.47	LT-20.38	24" BOX TAP	-	862.00	-	[10]
S-2B	100+10.53	LT-17.19	3'X3' STM SAS	867.54	862.79	4.75	W/R-3067-7004-V
S-3	100+66.89	LT-22.18	MOD TERRACE INL TYPE 2	868.83	866.45	2.38	FP; [2][4]
T-3A	100+66.47	LT-20.38	18" BOX TAP	-	863.95	-	[10]
S-3A	100+86.83	LT-18.41	3'X3' STM SAS	869.35	864.05	5.30	W/R-3067-7004-V
S-3B	101+27.17	LT-22.36	TERRACE INLET TYPE 3	870.44	865.44	5.00	LP; FP; [4]
NAKOMA RD (26+00 TO 27+00)							
S-4	26+51.74	RT-21.15	MOD TERRACE INL TYPE 2	873.72	867.20	6.52	FP; [2][4]
S-4A	26+45.97	RT-25.71	12" COLLAR	-	868.55	-	-
S-4B	26+48.16	RT-2.00	8'X14' STM SAS	873.92	861.34	12.58	FP; W/TWO R-1550; [7]
S-4C	26+25.66	LT-0.46	6'X6' CATCHBASIN	874.15	863.75	10.40	FP; W/TWO R-1550; [5]
S-5	26+39.90	LT-16.52	6'X14' RCBC BEND	-	861.34	-	[6]
STORM BOX ALIGNMENT (WEST OF NAKOMA RD)							
T-5A	1+62.48	LT-11.92	15" BOX TAP	-	866.13	-	[10]
S-5B	1+33.58	LT-2.91	8'X14' STM SAS	873.50	861.83	11.67	FP; W/R-1550 & R-3076-7004; [7]
S-5C	1+34.44	RT-10.62	6'X6' CATCHBASIN	874.44	863.28	11.16	FP; W/TWO R-1550; [5]
S-5D	1+46.94	RT-8.47	H INLET	873.50	870.00	3.50	LP; W/R-3067-7004-VB
S-6	1+12.65	RT-3.77	MOD TERRACE INL TYPE 2	873.42	868.30	5.12	LP;FP; [2][4]
S-7	0+77.22	RT-2.52	SADDLED INLET TYPE 2	873.65	868.23	5.42	FP; W/R-3067-7004-V
S-8	0+62.59	LT-0.80	6'X14' RCBC BEND	-	861.48	-	[6]
S-9	0+59.70	LT-0.31	6'X14'TO 6'X12' TRANSITION	-	861.83	-	[6]
S-10	0+47.78	RT-1.55	6'X12' RCBC WALL	-	862.33	-	[6]

SPECIFIC NOTES:

- [1] CONNECT PROP 6'X14' RCBC TO EX 4'X6' RCBC WITH FIELD-POURED REINFORCED WALL; INSTALL BEVELED WALL & FLOOR, SEE SHEET D-4; SEE BID ITEM 90033
- + [2] MODIFIED SADDLED STRUCTURE; CONSTRUCT PER SDD 5.7.9A (TYPE B) W/ #4 DOWELS CONNECTING TO RCBC ROOF; EI = RCBC CROWN; OPENINGS FOR 2'X3' SHALL BE 1.5'X1.5', FOR TERRACE INLETS SHALL BE 3'X4'
- [3] SET GRATE TO MATCH TOP OF CURB ELEVATION. INSTALL HAND-FORMED 6" W X 6" H CURB HEAD AT GRADE, AROUND GRATE, & MATCH INTO PAVEMENT CURB
- [4] SET GRATE 0.2' BELOW TOP OF CURB; TOC ELEVATION SHOWN IN SCHEDULE TABLE
- [5] INSTALL 3' SUMP; RECONNECT EX 30" RCP (SW) = 868.05 (NCM)
- + [6] RCBC WALLS, TRANSITION SECTIONS, & PRECAST BEND SHALL BE PAID AS STORM PIPE INSTALLATION; SEE BID ITEMS 50501 & 50502
- [7] CONSTRUCT 8'X14' STM SAS BASE, WALLS, ROOF, & ROOF OPENINGS PER SDD 5.7.39A & 5.7.39B, SEE SHEET D-4 FOR STM SAS NOTES; SEE BID ITEM 90035
- [8] TWO SANITARY MAIN CROSSINGS BELOW BOX CULVERT BASE; SEE SHEET D-4; SEE BID ITEM 90034
- [9] EXTERNAL SEALING BANDS REQUIRED FOR ALL PIPE JOINTS
- [10] STORM FIELD TAP MUST BE MACHINE CORED IN THE FIELD, AND INCLUDE WATERTIGHT CORE & SEAL BOOT
- + [13] RCBC PAY LENGTH SHALL NOT INCLUDE LENGTH THROUGH STM SAS

STANDARD NOTES:

- PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL REBAR FOR FIELD POURED STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATE

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
STORM BOX ALIGNMENT										
+ P-1	S-1	S-4B	860.11	861.34	177	172	0.71%	6'X14'	RCBC	[8][13]
+ P-2	S-4B	S-5	861.34	861.48	20	16	0.86%	6'X14'	RCBC	[13]
+ P-3	S-5	S-5B	861.48	861.83	51	47	0.75%	6'X14'	RCBC	-
+ P-4	S-5A	S-8	861.83	862.33	71	67	0.74%	6'X14'	RCBC	-
P-5	S-8	S-9	862.33	862.35	3	3	0.73%	6'X14'	RCBC	-
P-6	S-9	S-10	862.35	862.43	12	12	0.69%	6'X12'	RCBC	-
MANITOU WAY										
P-2A	T-2A	S-2A	861.50	862.82	45	41	3.26%	24"	TYPE 2	[13]
P-2B	T-2B	S-2B	862.00	862.79	55	51	1.56%	24"	TYPE 2	[13]
P-3A	T-3A	S-3A	863.95	864.05	19	15	0.68%	18"	TYPE 2	-
P-3B	S-3A	S-3B	864.30	865.44	41	39	2.96%	15"	TYPE 2	-
NAKOMA RD (26+00 TO 27+00)										
P-4A	S-4	S-4A	868.40	868.55	7	4	3.64%	12"	TYPE 2	-
P-4B	S-4B	S-4C	863.25	863.75	22	15	3.36%	34"X53"	HERCP	[9]
P-5A	T-5A	ADJ-1	866.13	869.31	23	21	15.48%	15"	RCP	-
P-5B	S-5B	S-5C	863.04	863.28	11	5	5.08%	43"X68"	HERCP	[9]
P-5C	S-5C	ADJ-2	867.28	867.95	22	19	3.49%	43"X68"	HERCP	NCM; [9]
P-5D	S-5C	S-5D	869.87	870.00	12	8	1.69%	12"	TYPE 2	NCM

- 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.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS 3 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 DANIEL OLIVARES OF CITY ENGINEERING AT (608) 261-9285 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO DAOLIVARES@CITYOFMADISON.COM.