



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

INDEX OF SHEETS

SHEET NO. D1	DETAIL SHEETS
SHEET NO. EC1	EROSION CONTROL PLANS
SHEET NO. U1	UTILITY PLAN & PROFILES
SHEET NO. U2	STORM SEWER SCHEDULE

MANITOU WAY STORM BOX REPLACEMENT

CITY PROJECT NO. 15957
CONTRACT NO. 9730

PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 10, 2026

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

ENG- Greg Fries 02/26/2026
ENG- Greg Fries (Feb 26, 2026 14:34:44 CST)

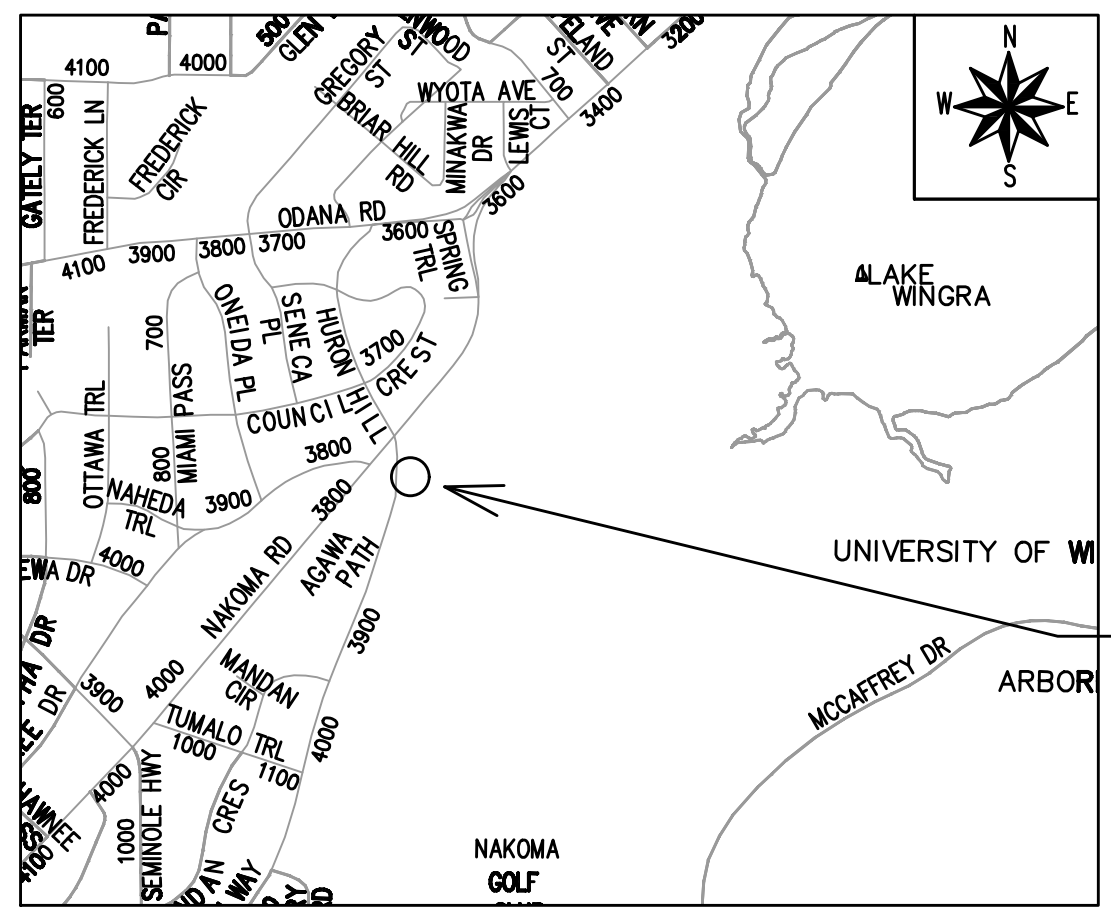
City Engineer Date

PLOT SCALE: 1 IN. = 1 FT. XREF PLOT NAME: REV. DATE: 2/26/2026 8:54 AM ORIGINATOR: CITY_OF_MADISON

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:

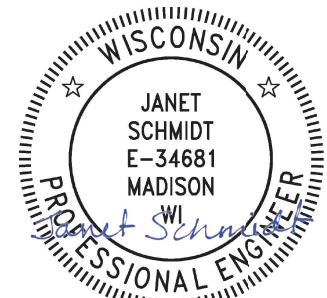
- ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.
- SIDEWALK RAMP SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMP SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.
- CITY MAINTENANCE PLAN NOT REQUIRED
- ON THIS PROJECT, STREET TREE PROTECTION ZONE FENCING IS REQUIRED. THE FENCING SHALL BE ERECTED BEFORE THE DEMOLITION, GRADING OR CONSTRUCTION BEGINS. THE FENCE SHALL INCLUDE THE ENTIRE WIDTH OF TERRACE AND EXTEND AT LEAST 10 FEET ON BOTH SIDES OF THE OUTSIDE EDGE OF THE TREE TRUNK. DO NOT REMOVE THE FENCING TO ALLOW FOR DELIVERIES OR EQUIPMENT ACCESS THROUGH THE TREE PROTECTION ZONE
- SECTION 107.13(G) OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WEBSITE: [HTTPS://WWW.CITYOFMADISON.COM/ENGINEERING/DOCUMENTS/STANDARD-SPECIFICATIONS/2026/COMPLETE-SPEC-BOOK.PDF](https://www.cityofmadison.com/engineering/documents/standard-specifications/2026/complete-spec-book.pdf)) ADDRESSES SOIL COMPACTION NEAR STREET TREES AND SHALL BE FOLLOWED BY CONTRACTOR. THE STORAGE OF PARKED VEHICLES, CONSTRUCTION EQUIPMENT, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS ON OR AROUND TREES AND ROOTS WITHIN 10 FEET OF THE TREE OR WITHIN THE PROTECTION ZONE IS PROHIBITED.
- AS DEFINED BY THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: NO EXCAVATION IS PERMITTED WITHIN 10 FEET OF THE TRUNK OF THE STREET TREE OR WHEN CUTTING ROOTS OVER 3 INCHES IN DIAMETER. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY AT (608) 266-4816 PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: [HTTPS://WWW.CITYOFMADISON.COM/ENGINEERING/DOCUMENTS/STANDARD-SPECIFICATIONS/2026/COMPLETE-SPEC-BOOK.PDF](https://www.cityofmadison.com/engineering/documents/standard-specifications/2026/complete-spec-book.pdf)



PROJECT LOCATION

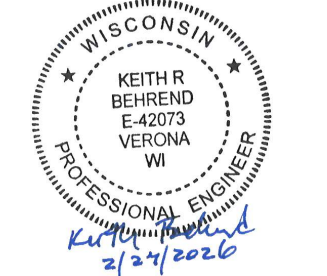
EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY) = 0 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT = 60 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT = 0 C.Y.

STORM SEWER DESIGNED BY:

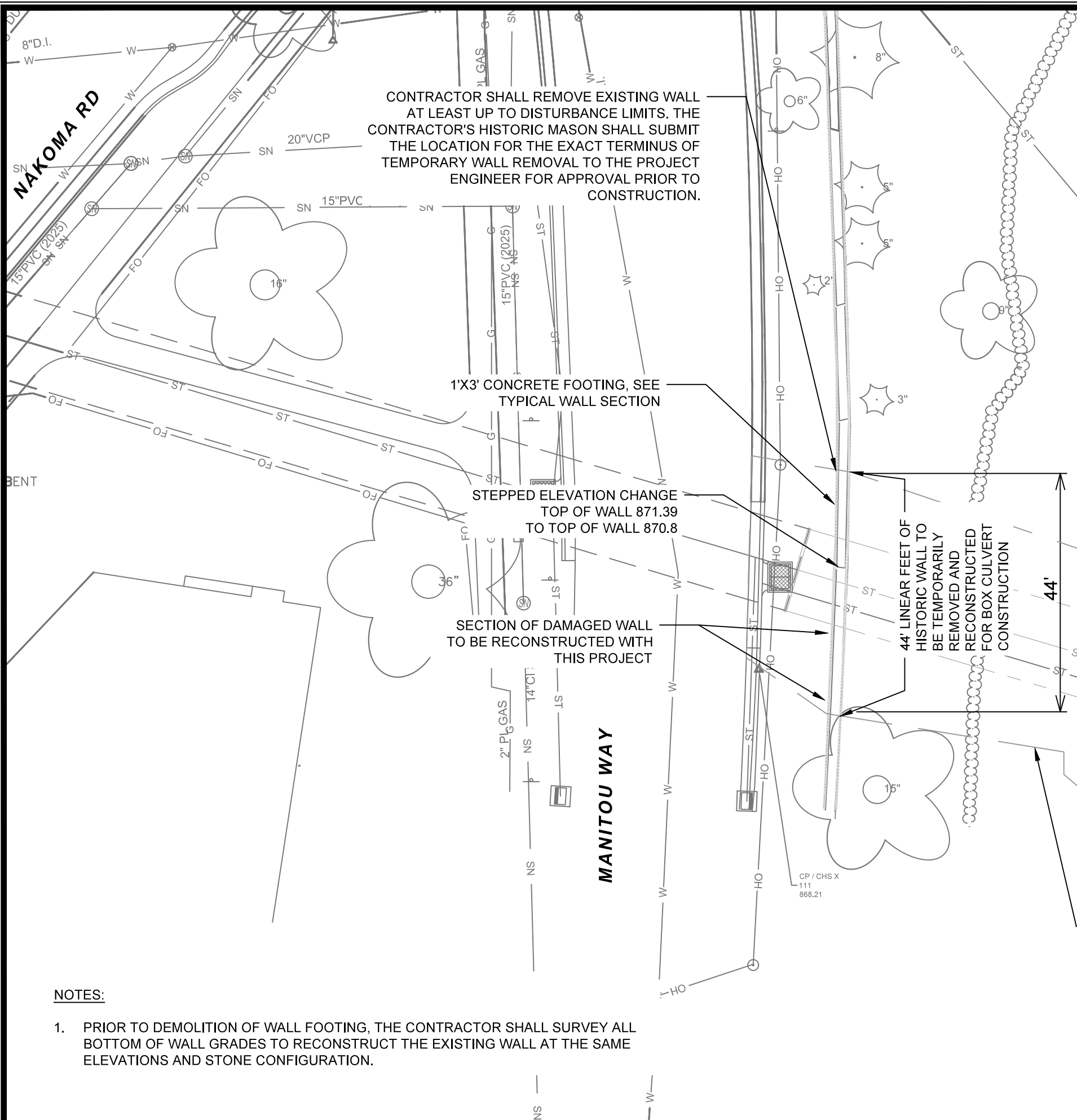


02/26/2026

STRUCTURAL WALL DESIGNED BY:



02/27/2026



CONTRACTOR SHALL REMOVE EXISTING WALL AT LEAST UP TO DISTURBANCE LIMITS. THE CONTRACTOR'S HISTORIC MASON SHALL SUBMIT THE LOCATION FOR THE EXACT TERMINUS OF TEMPORARY WALL REMOVAL TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

1'X3' CONCRETE FOOTING, SEE TYPICAL WALL SECTION

STEPPED ELEVATION CHANGE TOP OF WALL 871.39 TO TOP OF WALL 870.8

SECTION OF DAMAGED WALL TO BE RECONSTRUCTED WITH THIS PROJECT

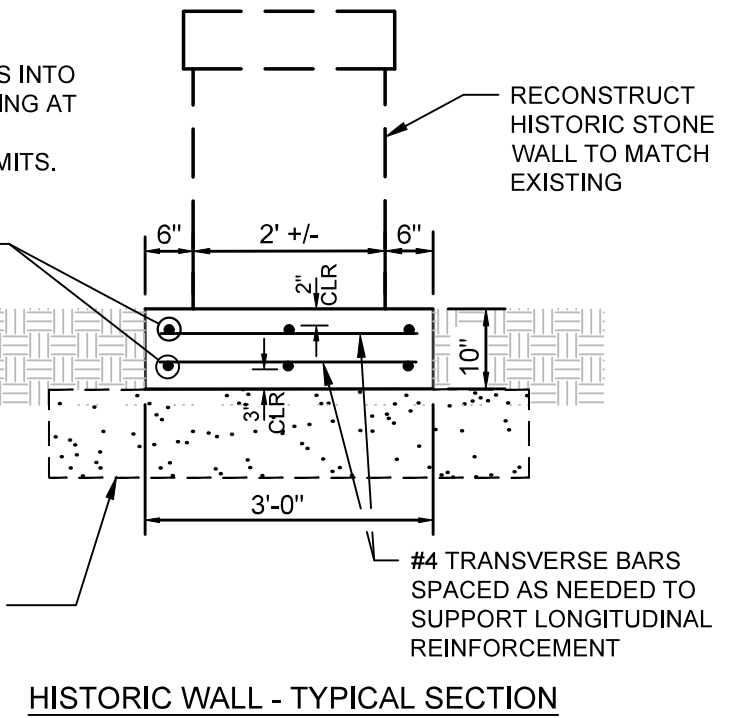
44' LINEAR FEET OF HISTORIC WALL TO BE TEMPORARILY REMOVED AND RECONSTRUCTED FOR BOX CULVERT CONSTRUCTION

NOTES:

PROVIDE 3 #5 DOWELS INTO EXISTING WALL FOOTING AT EACH END OF WALL RECONSTRUCTION LIMITS.

3 - #5 BARS TOP AND BOTTOM

6" CRUSHED AGGREGATE BASE, ADJUST THICKNESS OVER BOX CULVERT AS NECESSARY TO MATCH EXISTING WALL GRADES THAT VARY DUE TO SLOPE OF FOOTING.



PROPOSED 6'X14' STORM BOX REPLACEMENT

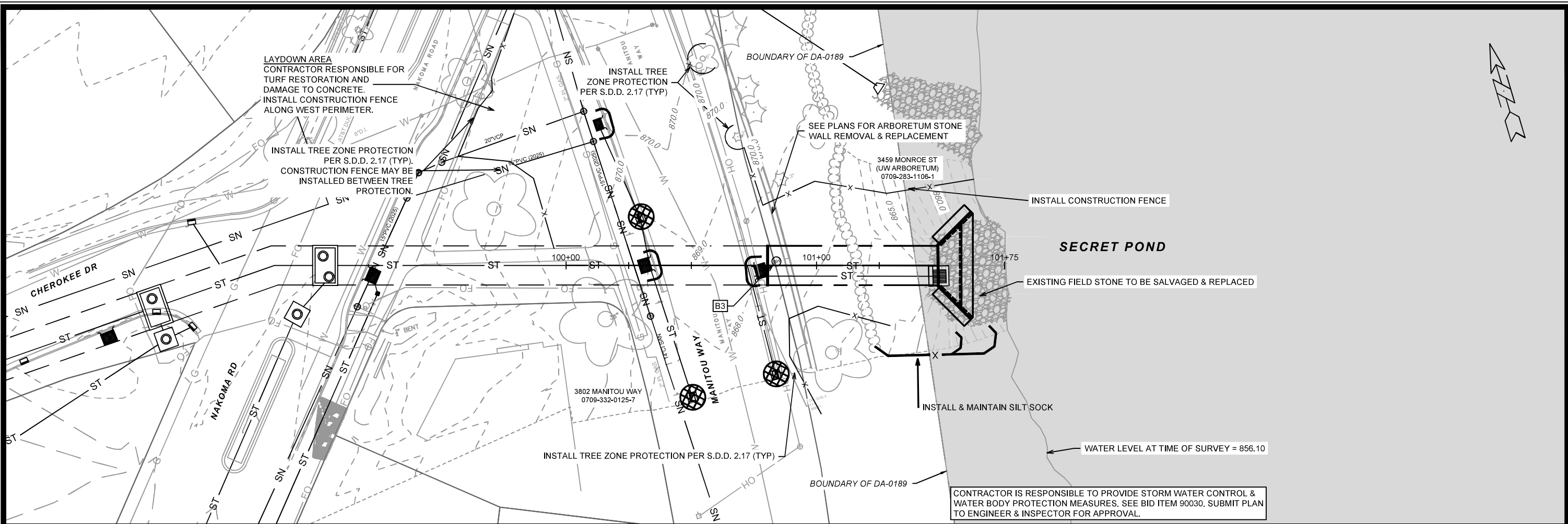
APPROXIMATE DISTURBANCE LIMITS

SECRET POND

NOTES:

1. PRIOR TO DEMOLITION OF WALL FOOTING, THE CONTRACTOR SHALL SURVEY ALL BOTTOM OF WALL GRADES TO RECONSTRUCT THE EXISTING WALL AT THE SAME ELEVATIONS AND STONE CONFIGURATION.

MARK	REVISION	DATE	BY
Designed By: SCL			Date: 2/25/2026 1:46 PM
Scale: #####			D-1
15957		MADISON, WI	
15957		9730	
MANITOU WAY WALL TEMPORARY DEMO AND RECONSTRUCTION PLAN			
MANITOU WAY STORM BOX REPLACEMENT			
M:\DESIGN\Projects\15957\CAD\Wall\15957WALL.dwg			
CONTRACT NO:			
15957			
D-1			



LAYDOWN AREA
CONTRACTOR RESPONSIBLE FOR
TURF RESTORATION AND
DAMAGE TO CONCRETE.
INSTALL CONSTRUCTION FENCE
ALONG WEST PERIMETER.

INSTALL TREE ZONE PROTECTION
PER S.D.D. 2.17 (TYP).
CONSTRUCTION FENCE MAY BE
INSTALLED BETWEEN TREE
PROTECTION.

INSTALL TREE
ZONE PROTECTION
PER S.D.D. 2.17 (TYP)

SEE PLANS FOR ARBORETUM STONE
WALL REMOVAL & REPLACEMENT

INSTALL CONSTRUCTION FENCE

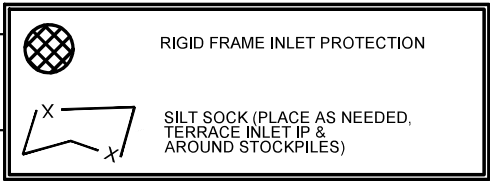
SECRET POND

EXISTING FIELD STONE TO BE SALVAGED & REPLACED

INSTALL & MAINTAIN SILT SOCK

WATER LEVEL AT TIME OF SURVEY = 856.10

CONTRACTOR IS RESPONSIBLE TO PROVIDE STORM WATER CONTROL &
WATER BODY PROTECTION MEASURES. SEE BID ITEM 90030. SUBMIT PLAN
TO ENGINEER & INSPECTOR FOR APPROVAL.



EROSION CONTROL NOTES:

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

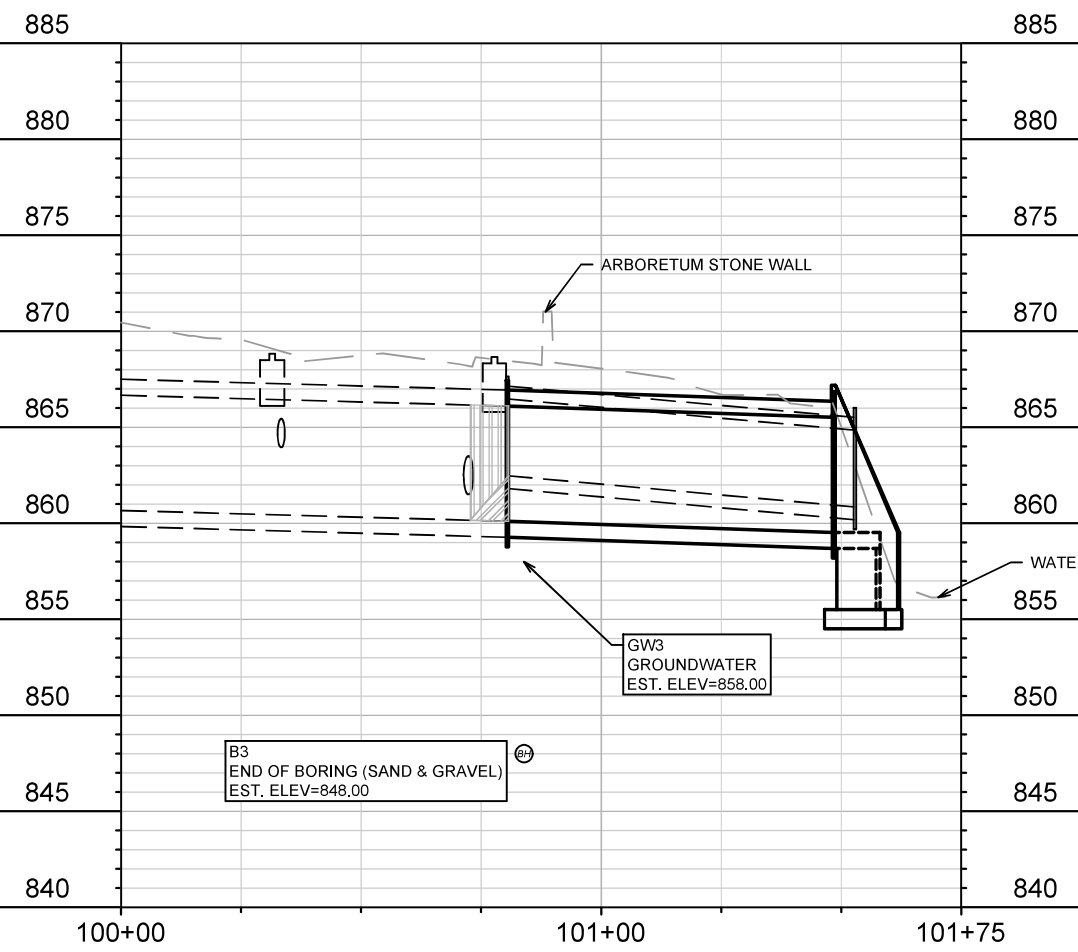
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

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

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



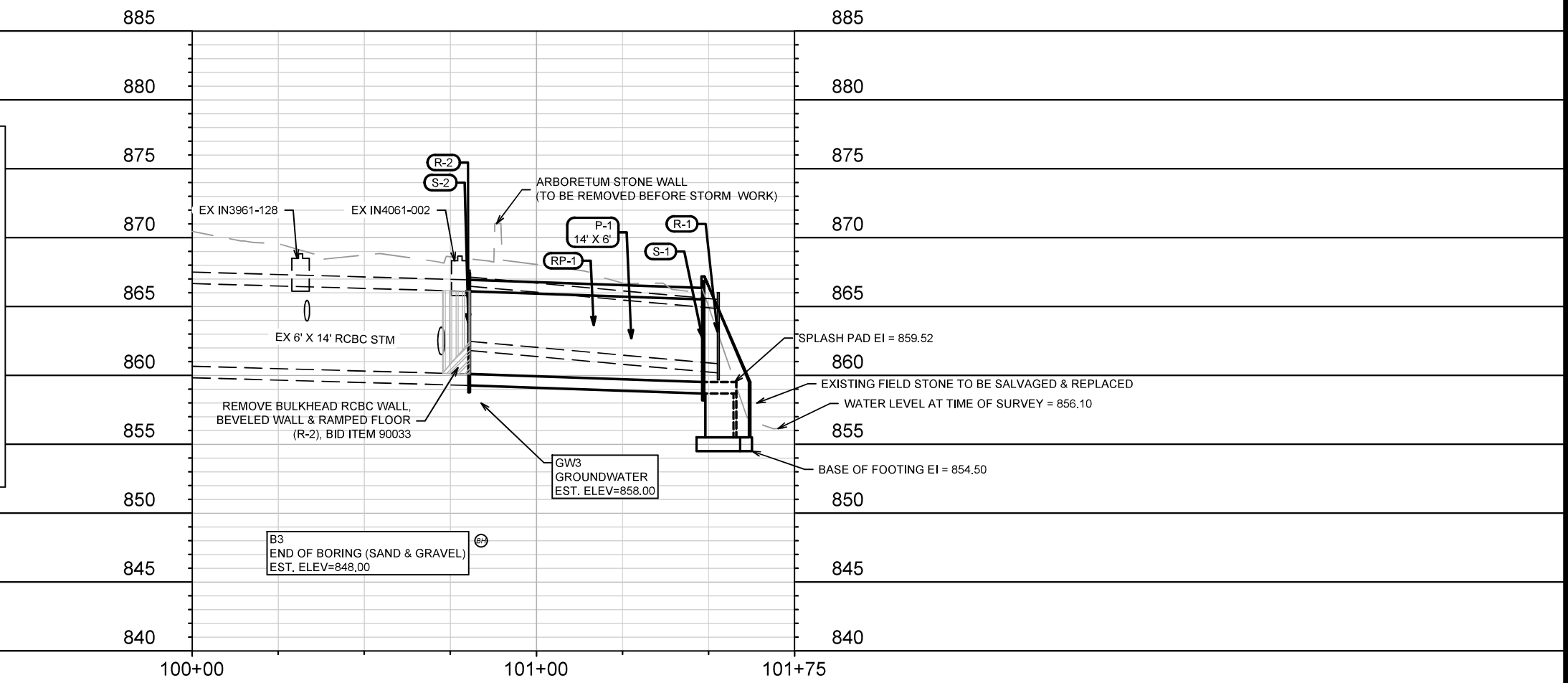
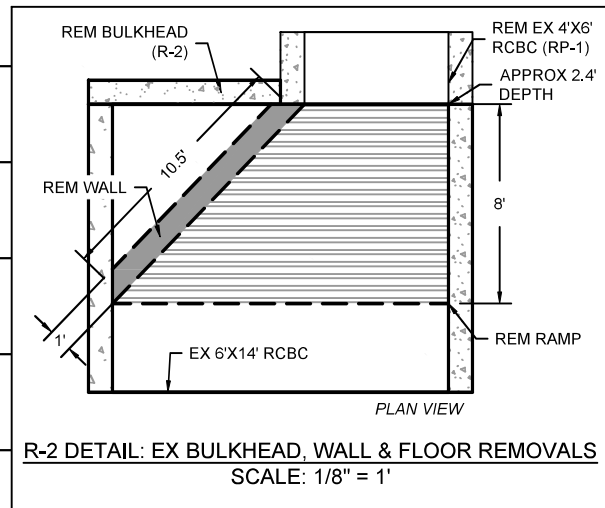
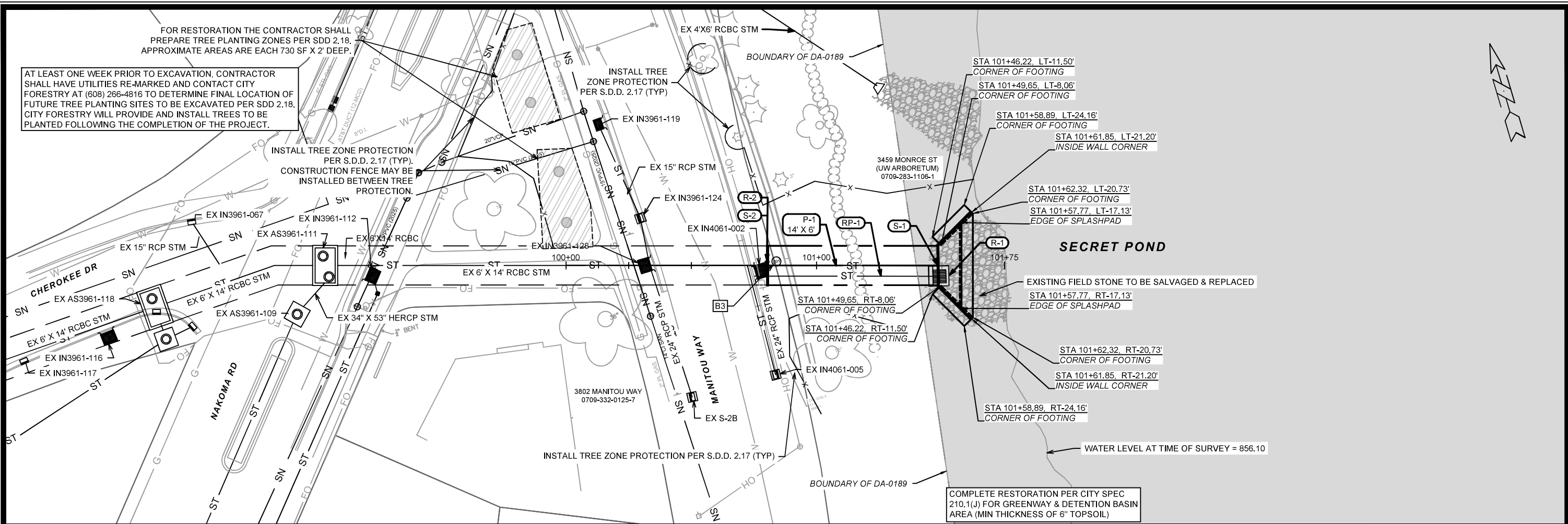
DATE	BY
REVISION	
Designed By: ##	15957
Date: 2/26/2026 9:01 AM	Scale: 1" = 40'

15957
MADISON, WI
CONTRACT NO: 9730

MANITOU WAY - EROSION CONTROL
MANITOU WAY STORM BOX REPLACEMENT
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15957
EC-1



DATE	BY	U-1
REVISION	DATE	15957
DESIGNED BY	DATE	2/26/2026 6:59 AM
MARK	Scale	1" = 40'
15957		

15957
MADISON, WI
9730
CONTRACT NO:

MANITOU WAY - SEWER PLAN & PROFILE
MANITOU WAY STORM BOX REPLACEMENT
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15957
U-1

STORM SEWER SCHEDULE

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MANITOU WAY							
S-1	101+48.47	CL	6'X14' WINGWALL	-	859.52	-	[1]
S-2	100+80.44	CL	6'X14' JOINT	-	860.11	-	[2]

STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH (FT)	NOTES
MANITOU WAY						
R-1	AE4061-007	101+52.84	RT-3.97	4'X6' END WALL	5.68	[3]
R-2	SS4061-004	100+80.44	RT-4.24	6'X14' BULKHEAD	-	[2]

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
MANITOU WAY										
P-1	S-1	S-2	859.52	860.11	68	68	0.87%	6'X14'	RCBC	[1][4]

STORM PIPE REMOVALS

PIPE REM NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAID (Y/N)	REM LGTH PAID (FT)	PIPE SIZE	PIPE TYPE	NOTES
MANITOU WAY								
RP-1	R-1	R-2	72.00	Y	72	4'X6'	RCBC	[3]

SPECIFIC NOTES

- [1] LOCATION OF END OF P-1 GIVEN IN CHART; CONSTRUCT WINGWALL PER S.D.D. 5.5.1, 5.5.1A, & 5.5.1B WITH MODIFIED FOOTING DEPTH (+2' ADD'L); CONTRACTOR MAY INSTALL PRECAST WINGWALL WITH ENGINEER APPROVAL
- [2] LOCATION OF END OF EXISTING 6'X14' RCBC W/ BUTT JOINT; WORK UNDER BID ITEM 90033 INCLUDES REMOVING 6'X14' BULKHEAD WALL, EX BEVELED WALL & RAMPED FLOOR; SEE NOTE [4]
- [3] EX 4'X6' BOX CULVERT END STRUCTURE REMOVAL IS INCIDENTAL TO RCBC PIPE REMOVAL; PAID UNDER BID ITEM 90034
- [4] BOTH ENDS OF PIPE SHALL BE FLUSH ENDS/BUTT JOINTS; MATCH ENDS AT S-2, INSTALL JOINT COMPOUND, EXTERNAL JOINT SEAL, AND INSTALL JOINT TIES (>12" LONG) INSTALLED BEYOND THE EDGES OF JOINT WRAP

STANDARD NOTES:

- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- 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 RECOATED PRIOR TO USE.
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- 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 REINFORCED CONCRETE PIPES TO BE CLASS 3 UNLESS OTHERWISE NOTED.
- 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
- 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.

15957	MADISON, WI	U-2
STORM SEWER SCHEDULE		
MANITOU WAY BOX CULVERT REPLACEMENT - PHASE 2		
CONTRACT NO: 9730		
DESIGNED BY: DAO		
MARK REVISION DATE BY		
15957		
U-2		

