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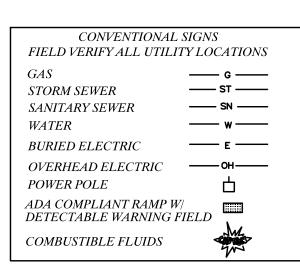
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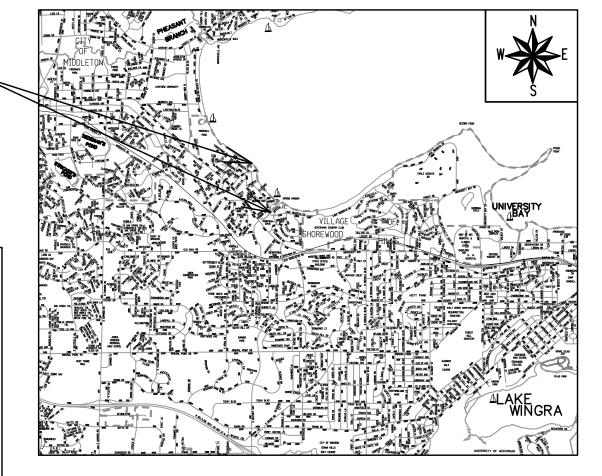
CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT SPRING HARBOR OUTFALL REPAIR

CITY PROJECT NO. 12154 CONTRACT NO. 8525

PROJECT LOCATIONS





PUBLIC IMPROVEMENT PROJECT APPROVED

OCTOBER 1, 2019

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer

STORM SEWER
DESIGNED BY:

LAUREN E.

STRIEGL
E-46048
OREGON
WIS

NO NA L

MIS

STORM SEWER

Date

Aug 18, 2021

WATER
DESIGNED BY:

KELLY B

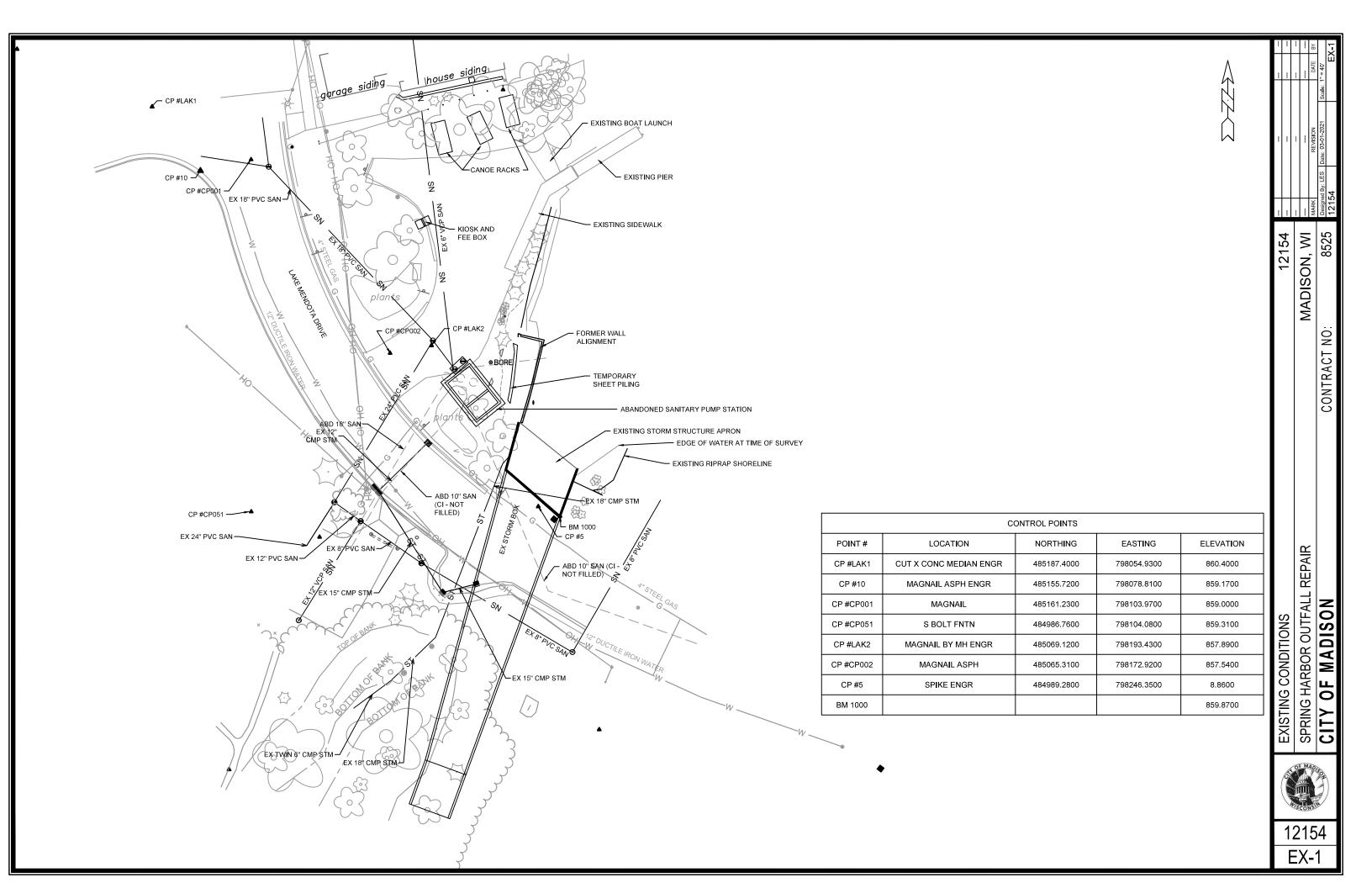
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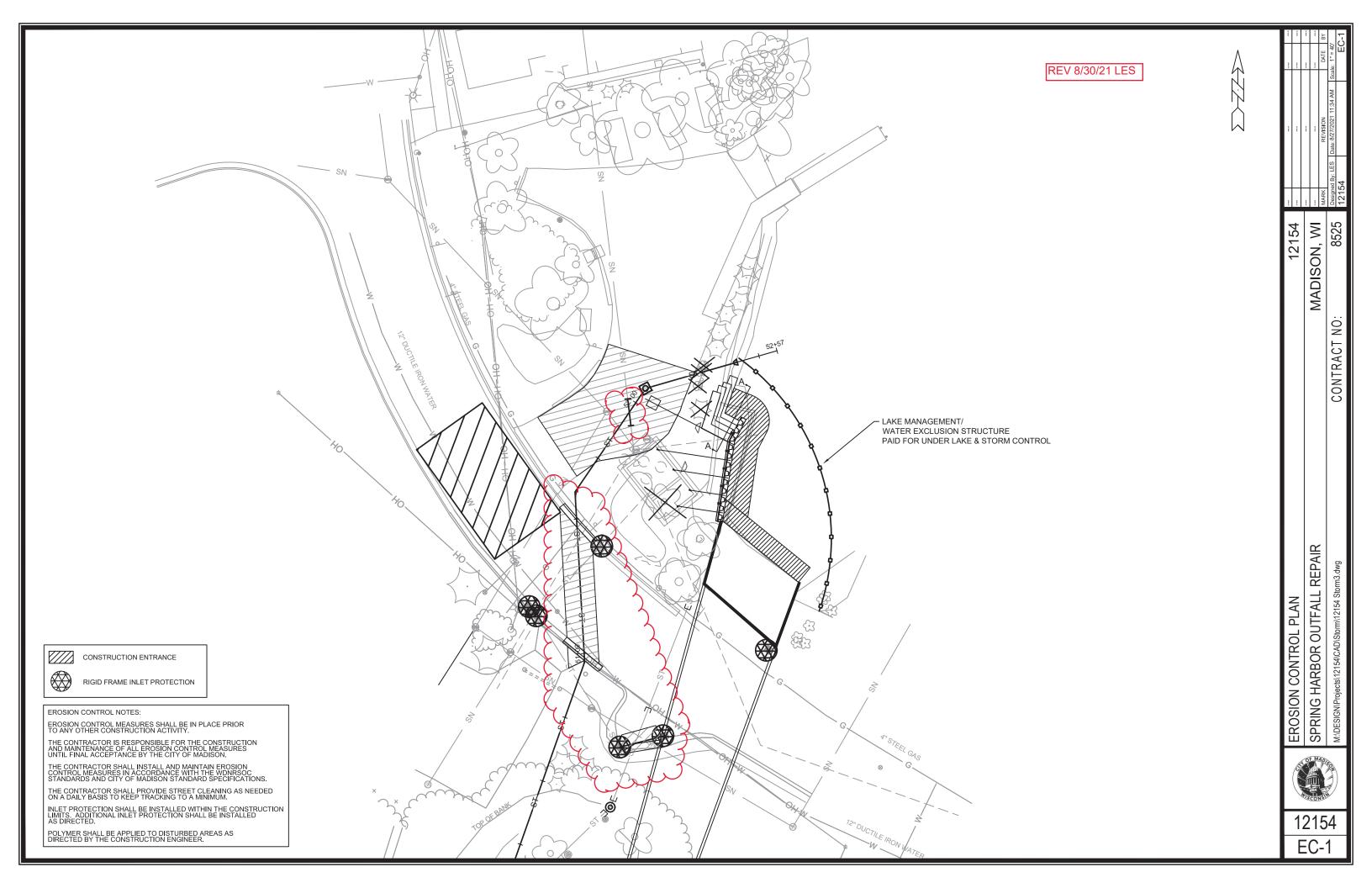
MADISON

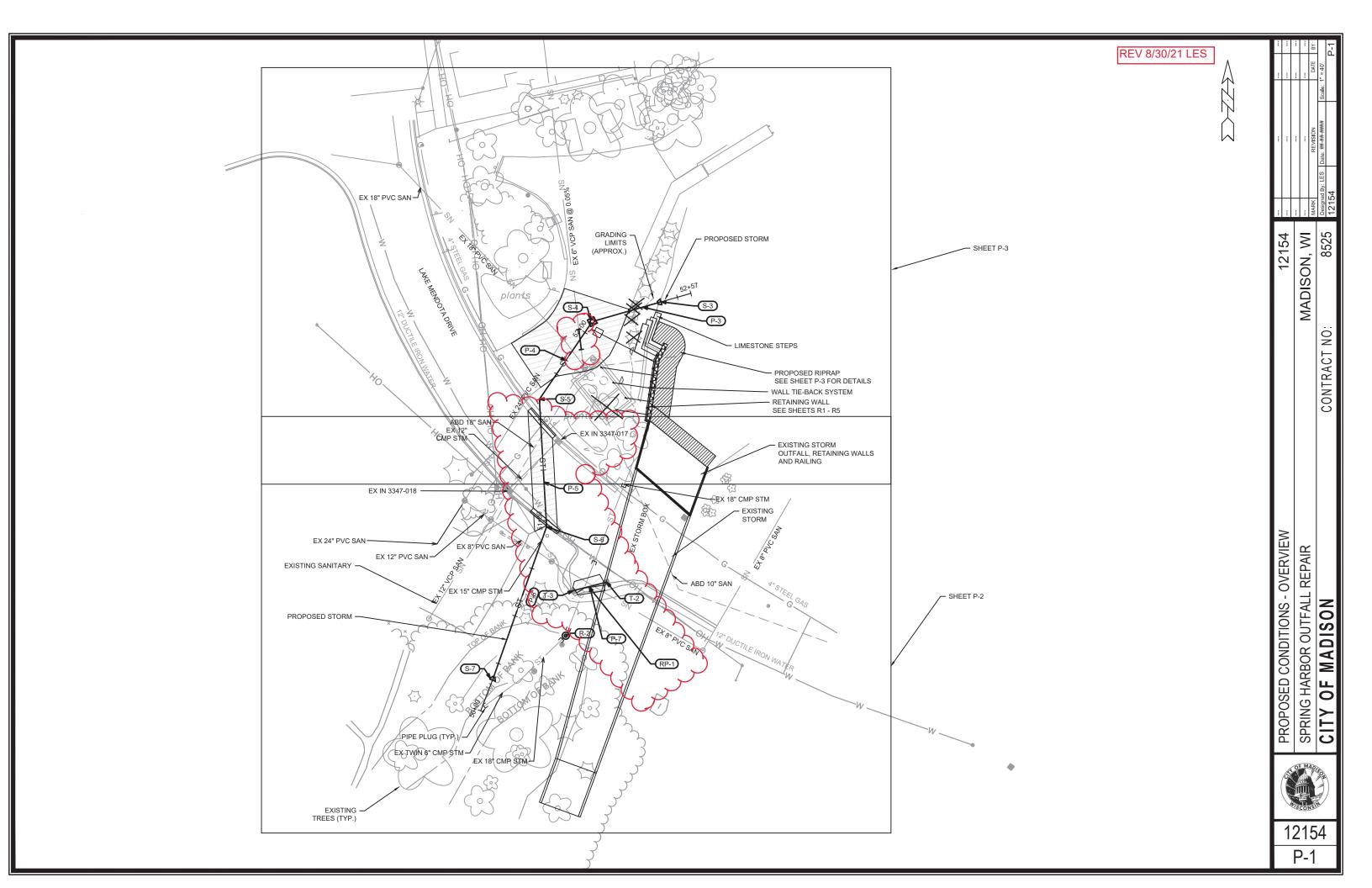
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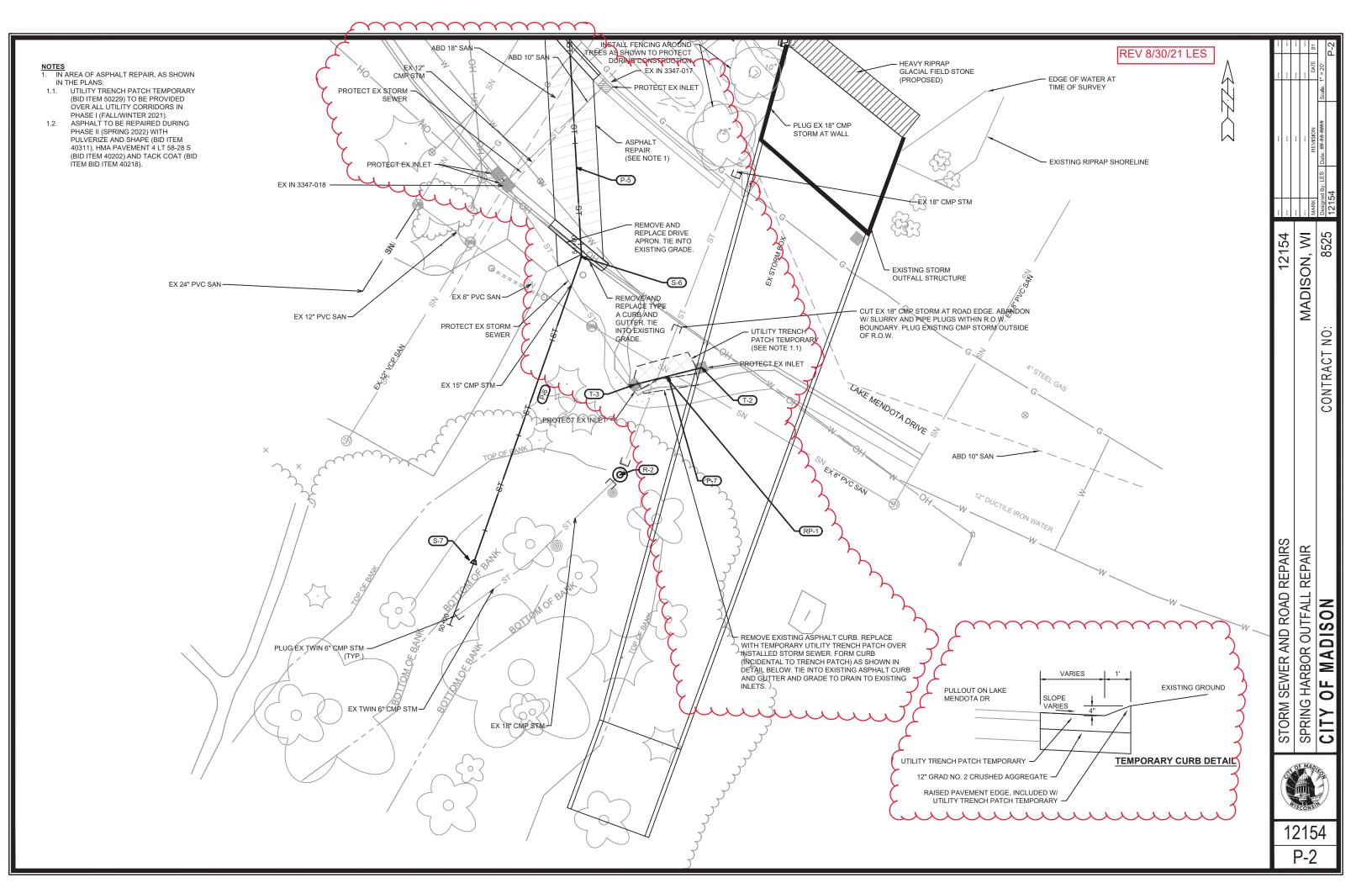
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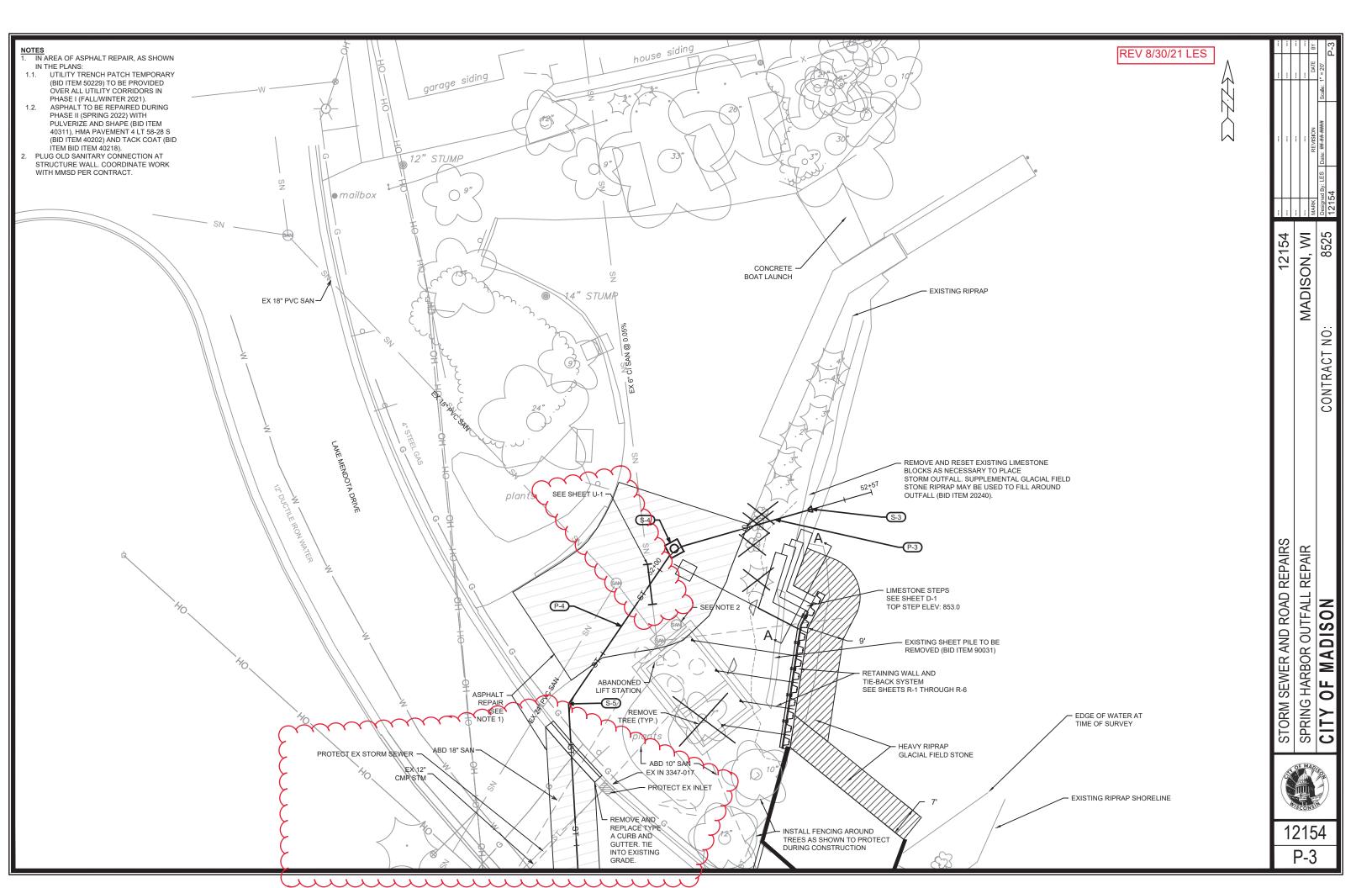
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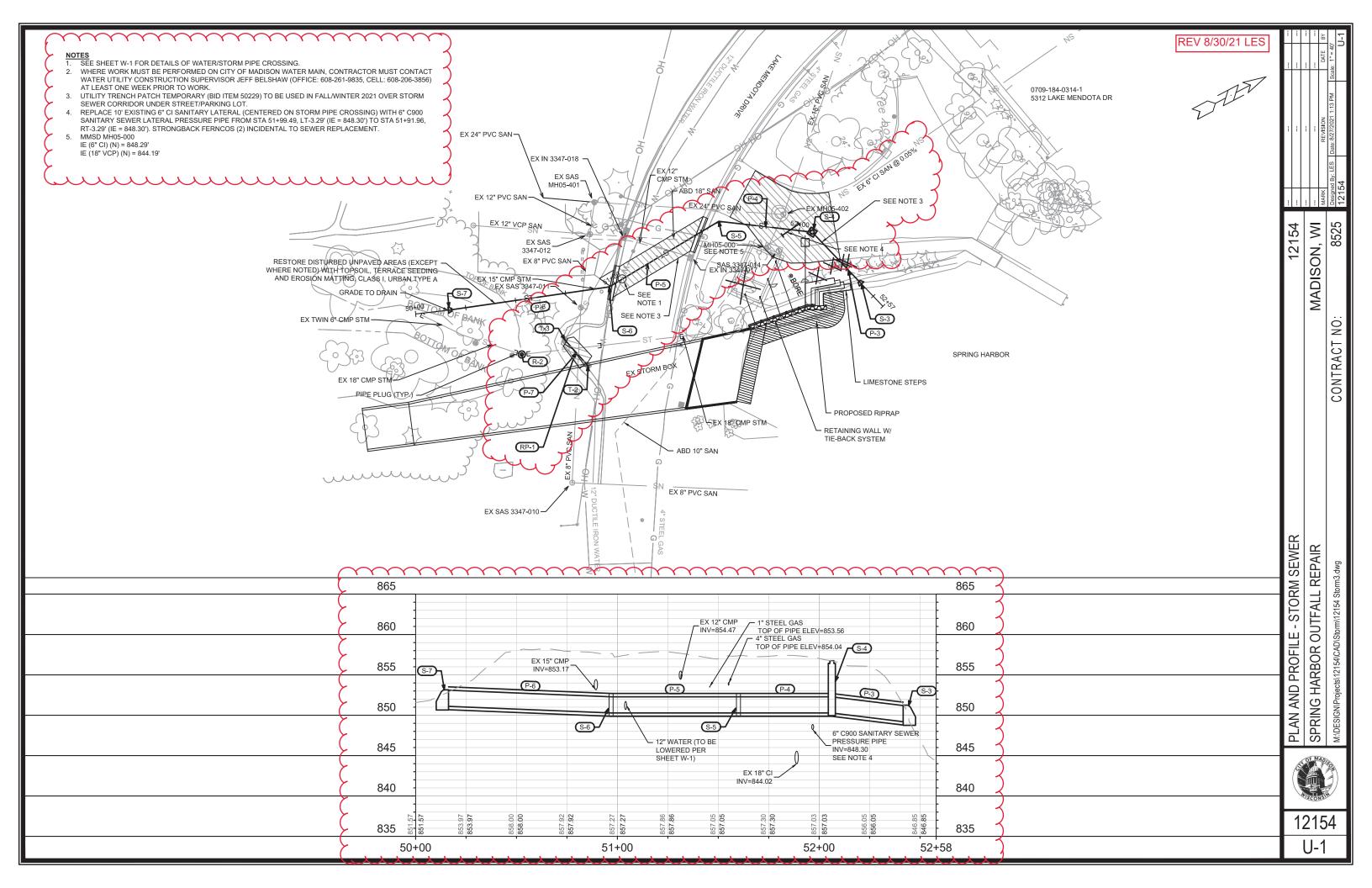












ST	TORM	SEWER	SCHEDULE	=
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*REV 8/30/21 LES

SPRING HARBOR OUTFALL REPAIR
PROJECT NO. 12154

STORM SEWER SCHEDULE

CITY OF MADISON

SHEET NO.

U-STM

PROPO	DSED STORM	STRUCTURE	<u>S</u>					PROP	OSED STORM	<u> I PIPES</u>								
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 (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* S-1	51+02.18	RT-41.38	SADDLED 3X3 STORM SAS	857.61	8 51.00	6.61	FP; SEE SPEC. NOTE 1	* P-1	S-1	S-2	8 53.32	853.52	40	37	0.55%	18"	RCP	
* S-2	51+25.99	RT-9.64	3X3 STORM SAS	857.53	853.52	4.01	W/ R-1550-0054	* P-2	S-2	T-1	8 54.01	854.56	13	10	5.74%	12"	RCP	
* S-2A	51+15.40	LT-17.27	H INLET	857.57	8 54.14	3.43	FP; W/ R-3067-7004VB	* P-2A	S-2	S-2A	8 54.01	854.14	29	26	0.50%	12"	RCP	
S-3	52+41.63	CL	24-IN RCP AE W/ GATE	-	849.20	-		* P-3	S-3	S-4	849.2	850.28	35	34	3.15%	24"	RCP	
* S-4	52+06.29	LT-0.63	3X3 STORM SAS	856.75	850.28	6.47	W/ R-1550-0054	* P-4	S-4	S-5	850.28	850.28	47	45	0.00%	24"	RCP	
* S-5	51+59.99	LT-0.56	PRECAST 24-IN 37.7° RCP BEND	-	850.28	-	SEE BID ITEM 90036	* P-5	S-5	S-6	850.28	850.28	63	63	0.00%	24"	RCP	
* S-6	50+96.85	RT-0.20	PRECAST 24-IN 22.8° RCP BEND	-	850.28	-	SEE BID ITEM 90037	* P-6	S-6	S-7	850.28	851.1	81	81	1.02%	24"	RCP	
S-7	50+16.30	CL	24-IN RCP AE W/ GATE	-	851.10	-		* P-7	T-2	T-3	851.74	852.18	17	15	3.00%	15"	RCP	

PROPOSED STORM TAPS							PROPO	PROPOSED STORM REMOVALS							
TAP NO.	STRUC. NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES	REMOVAL NO.	STRUC. NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
* T-1	IN 3347-017	51+39.41	RT-8.88	057.46	OEA EC	2.90	12" RCP	* R-1	EX. IN 3347-018	51+14.21	LT-15.70	8 57.57	054.44	2.42	REPLACE W/ S-2A
				857.46	854.56		12 RGP						854.14	3.43	REPLACE W/ 3-ZA
* T-2	EX. SADDLED STRUC	50+80.91	RT-37.20	856.25	851.74	4.51		R-2	EX. STM STRUC	50+49.16	RT-26.97	858.26	-	-	
* T-3	EX. IN 3347-019	50+71.38	RT-22.85	856.03	852.18	3.85		* R-3	EX. IN 3347-019	50+71.38	RT-22.85	856.03	852.18	3.85	
								* R-4	EX. SADDLED STRUC	50+80.91	RT-37.20	856.25	8 51.74	4.51	

PROPO	PROPOSED STORM PIPE REMOVALS													
REMOVAL	REMOVE	REMOVE	LGTH	PIPE	PIPE	PAID	NOTES							
NO.	FROM	TO	(FT)	SIZE	TYPE	(Y/N)								
* RP-1	T-2	T-3	17	15"	CMP	N								

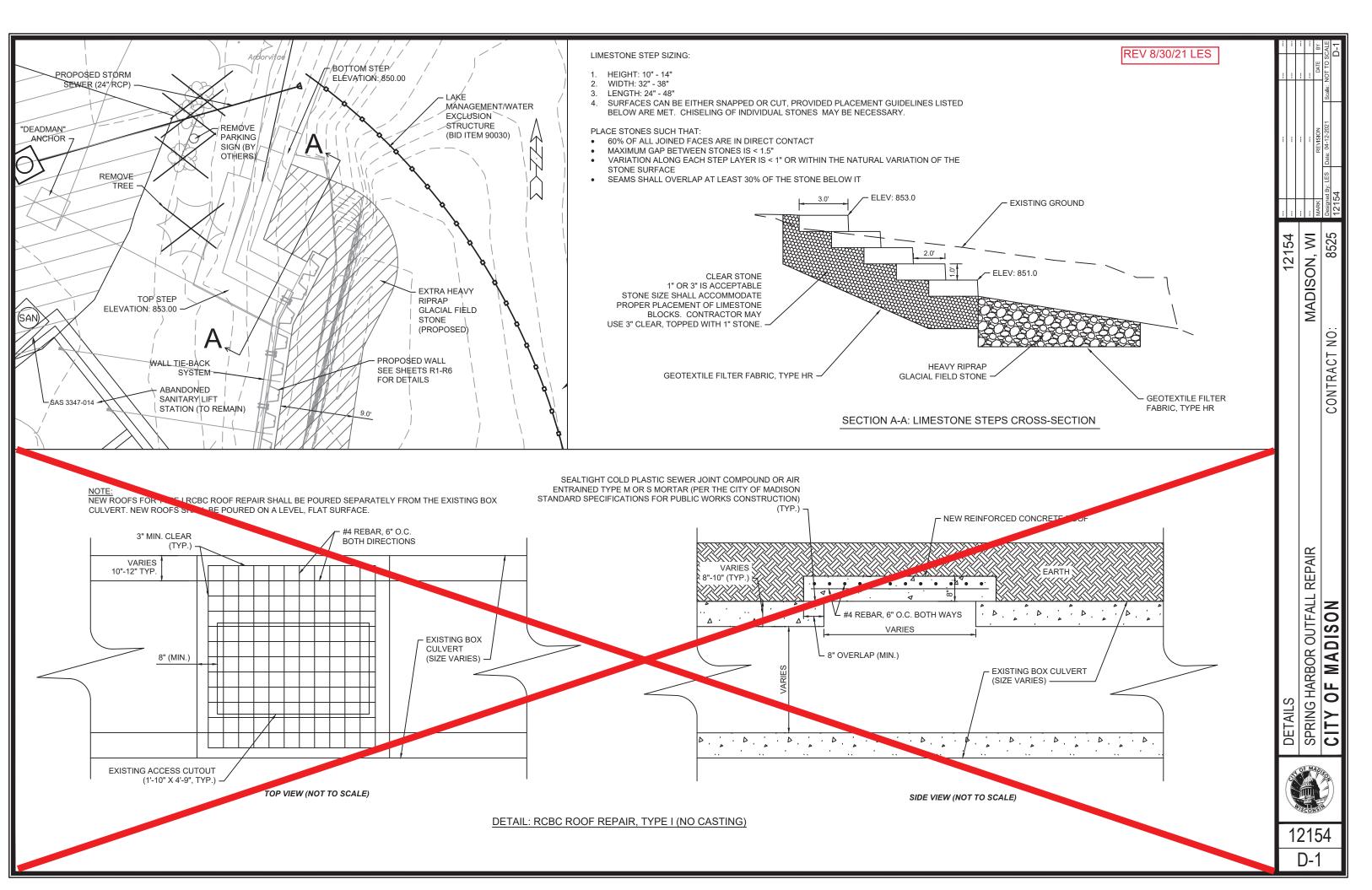
SPECIFIC NOTES:

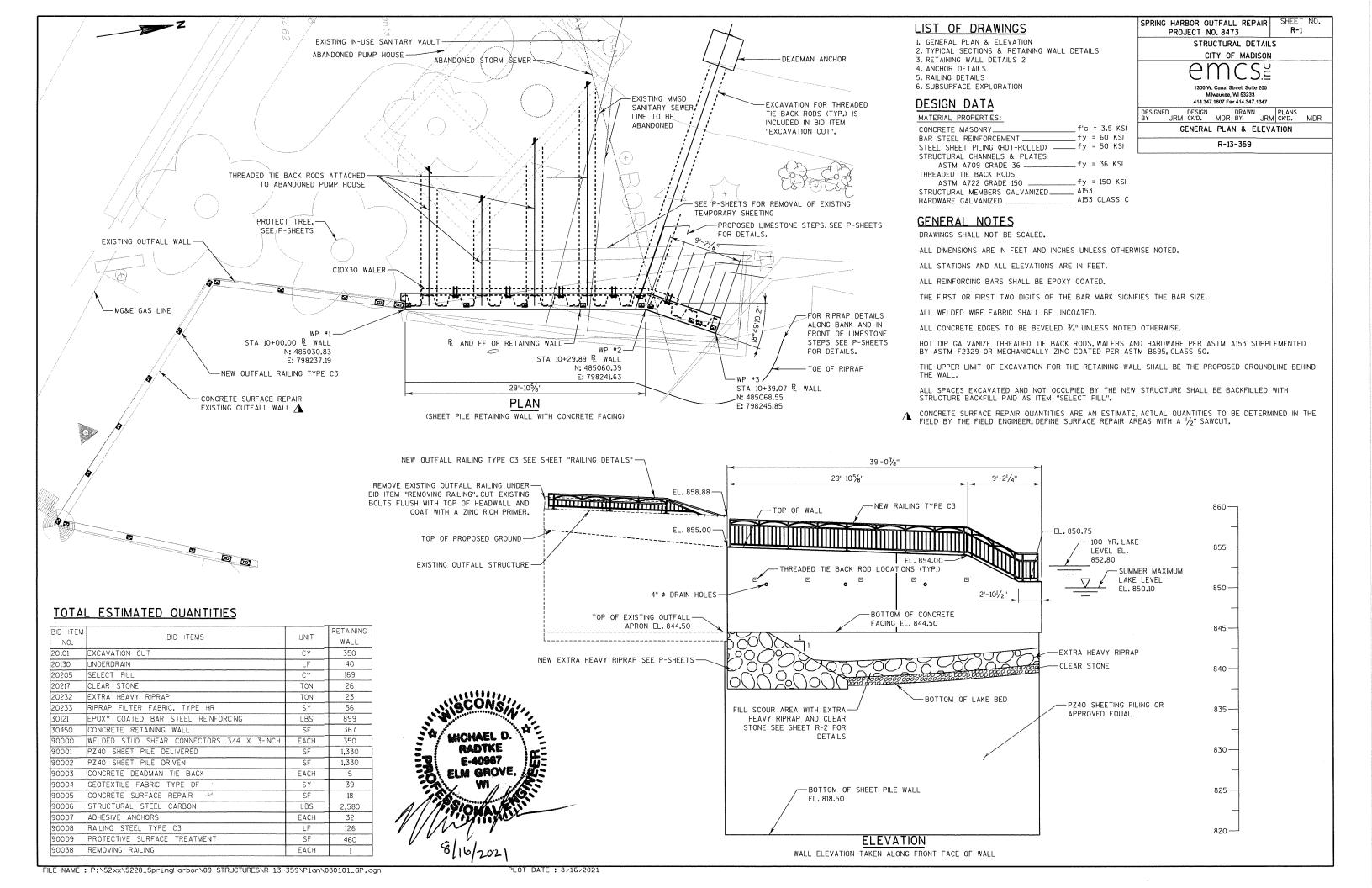
1) SADDLED SAS TO BE CONSTRUCTED PER CITY OF MADISON S.D.D. 5.7.9A (TYPE B); W/ R-1550-0054 CASTING; DEPTH TO BE VERIFIED IN THE FIELD

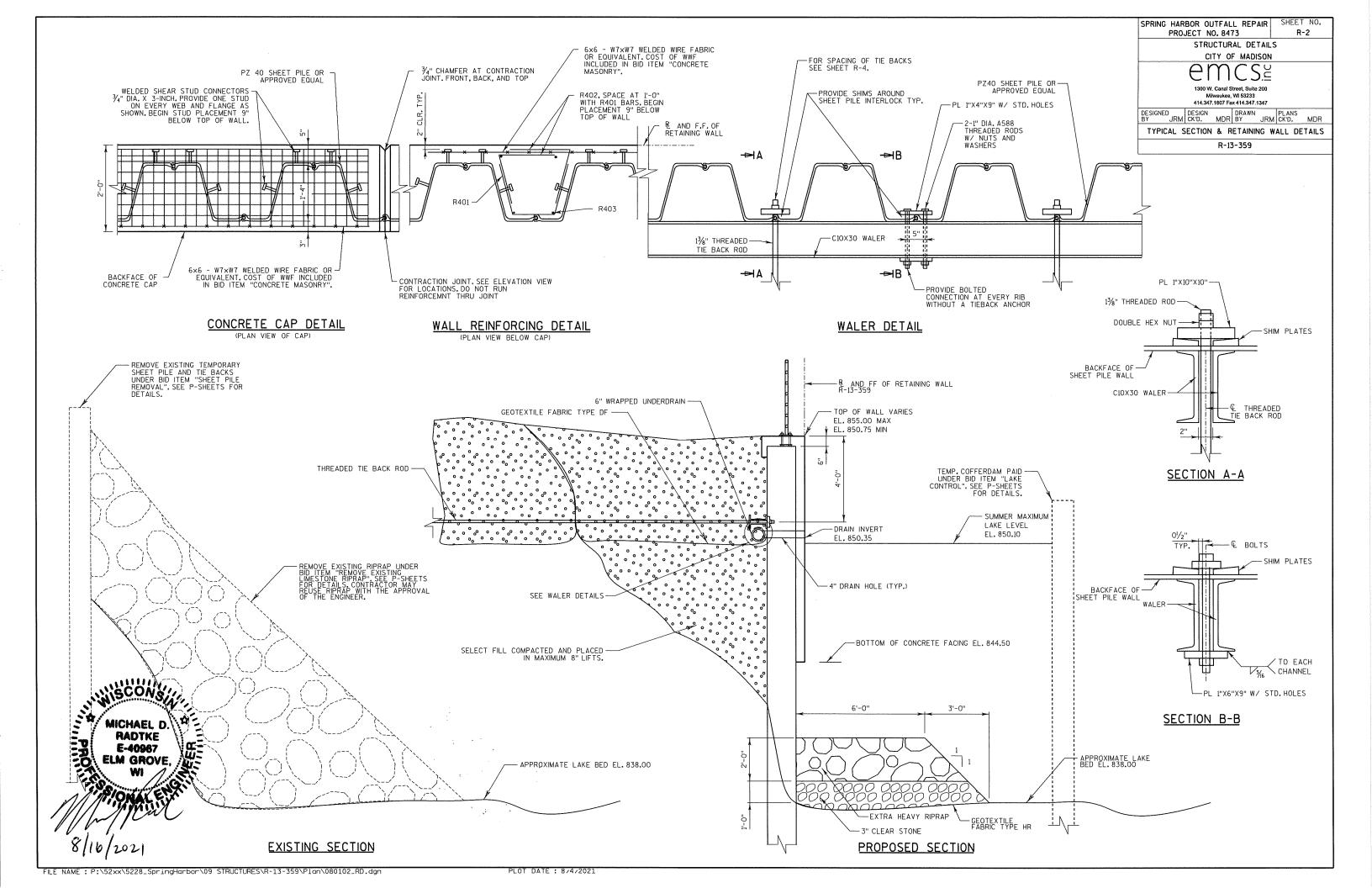
STANDARD NOTES:

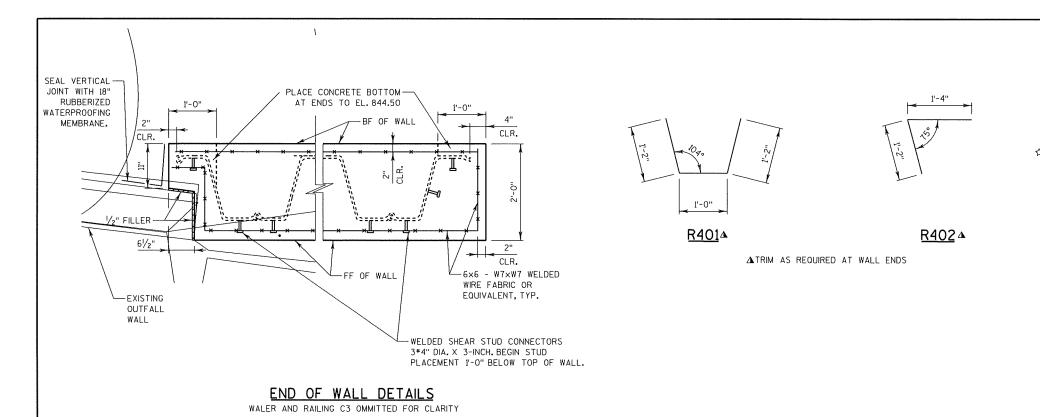
- -PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL. TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED 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 III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.

- -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 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 LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO LSTRIEGL@CITYOFMADISON.COM.
- -ALL REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.





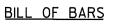




2'-1"

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3'-53/4"



	BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
	R401	X	104	3'~2"	Х	SHEET PILE HORIZ. STIRKUP
	R402	Х	208	2'-5"	Χ	SHEET PILE HORIZ. STIRRUP
삷	R403	Х	40	9'-9"		SHEET PILE VERTICAL
	R404	X	4	7'-0''		SHEET PILE VERTICAL
[R405	X	4	5'-6"		SHEET PILE VERTICAL
	R406	Х	20	3'-8"		DEADMAN ANCHOR

DESIGNED DESIGN DRAWN PLANS
BY JRM CK'D. MDR BY JRM CK'D. MDR

STRUCTURAL DETAILS CITY OF MADISON

SHEET NO.

SPRING HARBOR OUTFALL REPAIR

PROJECT NO. 8473

BAR SERIES☆

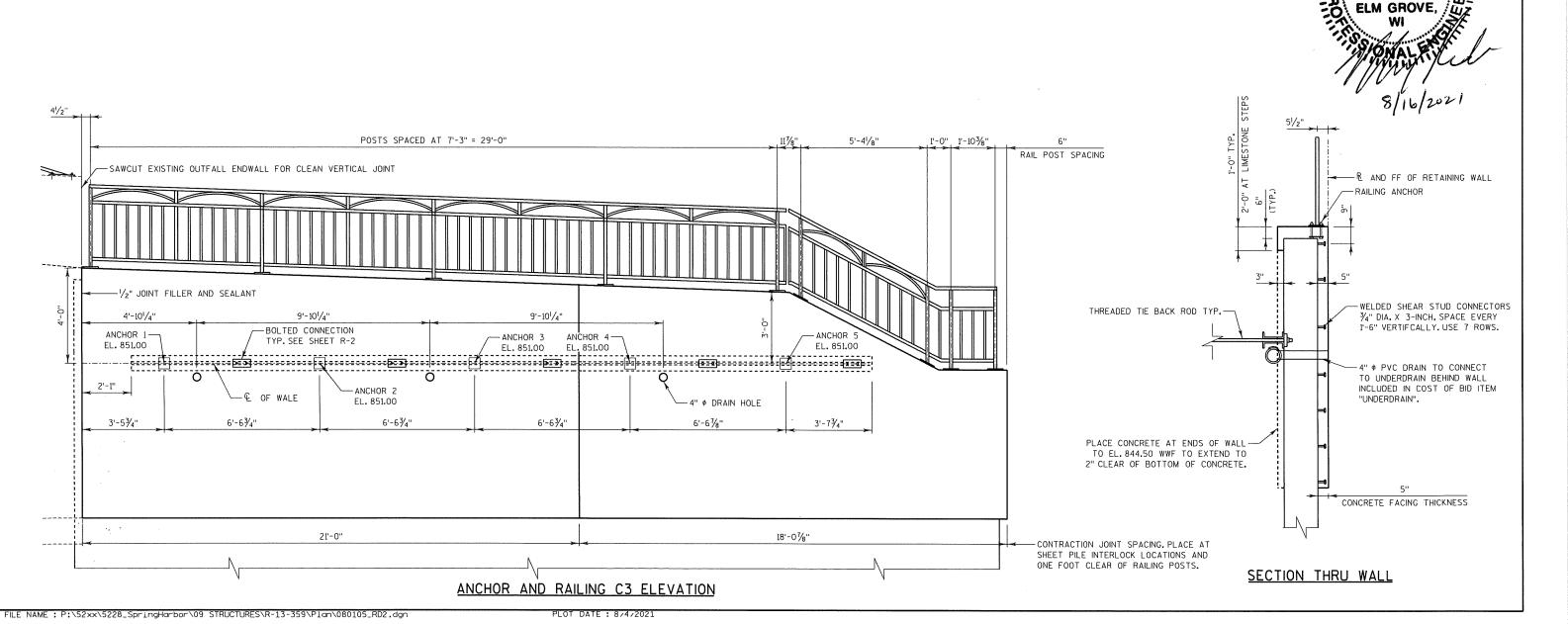
BAR		NO.	RF	חים			ENGT	^н	
MARK		.,0,	110						
R403	4	SERI	ES	OF	10	9'-3"	TO	10'-3"	

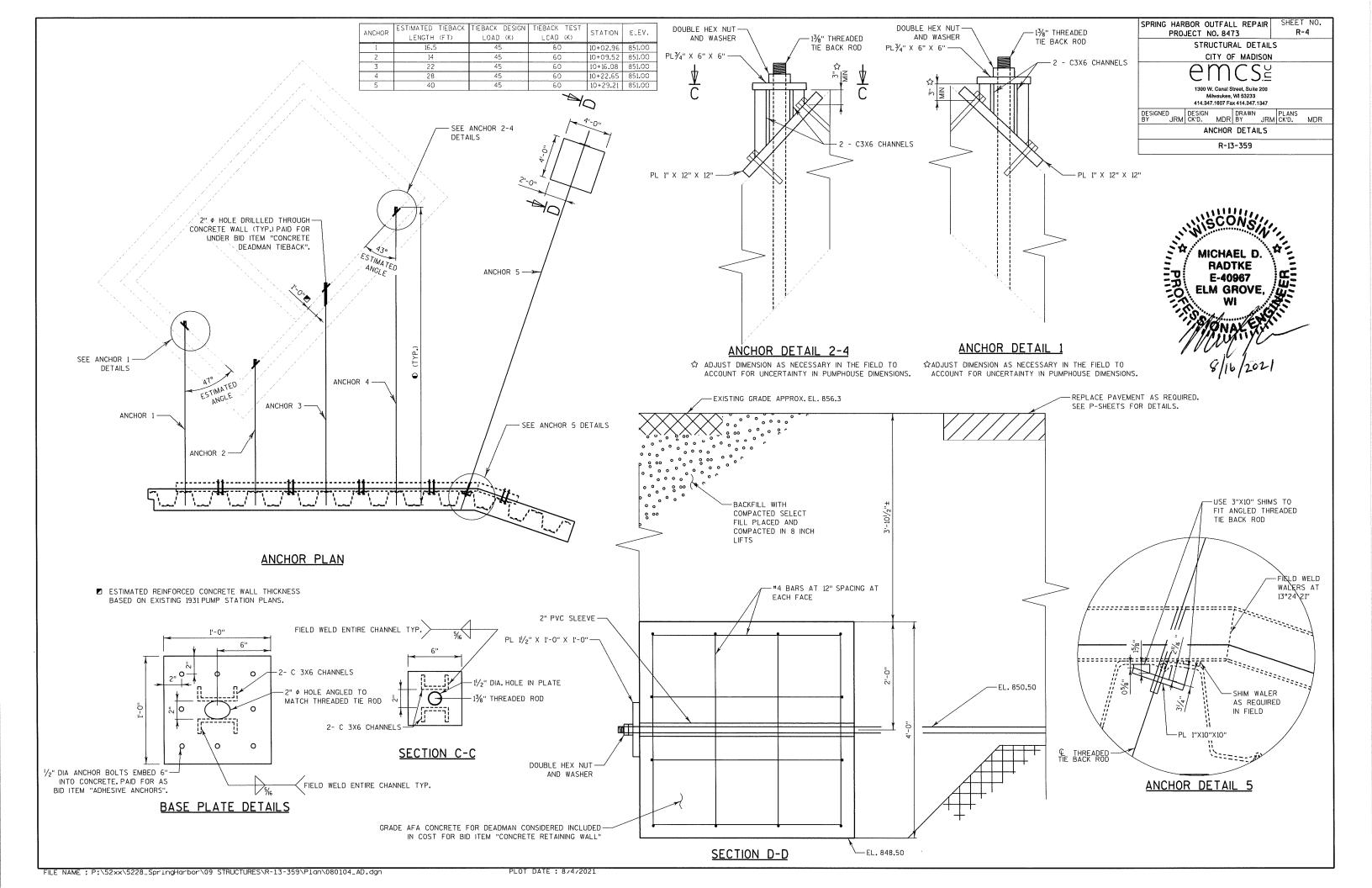
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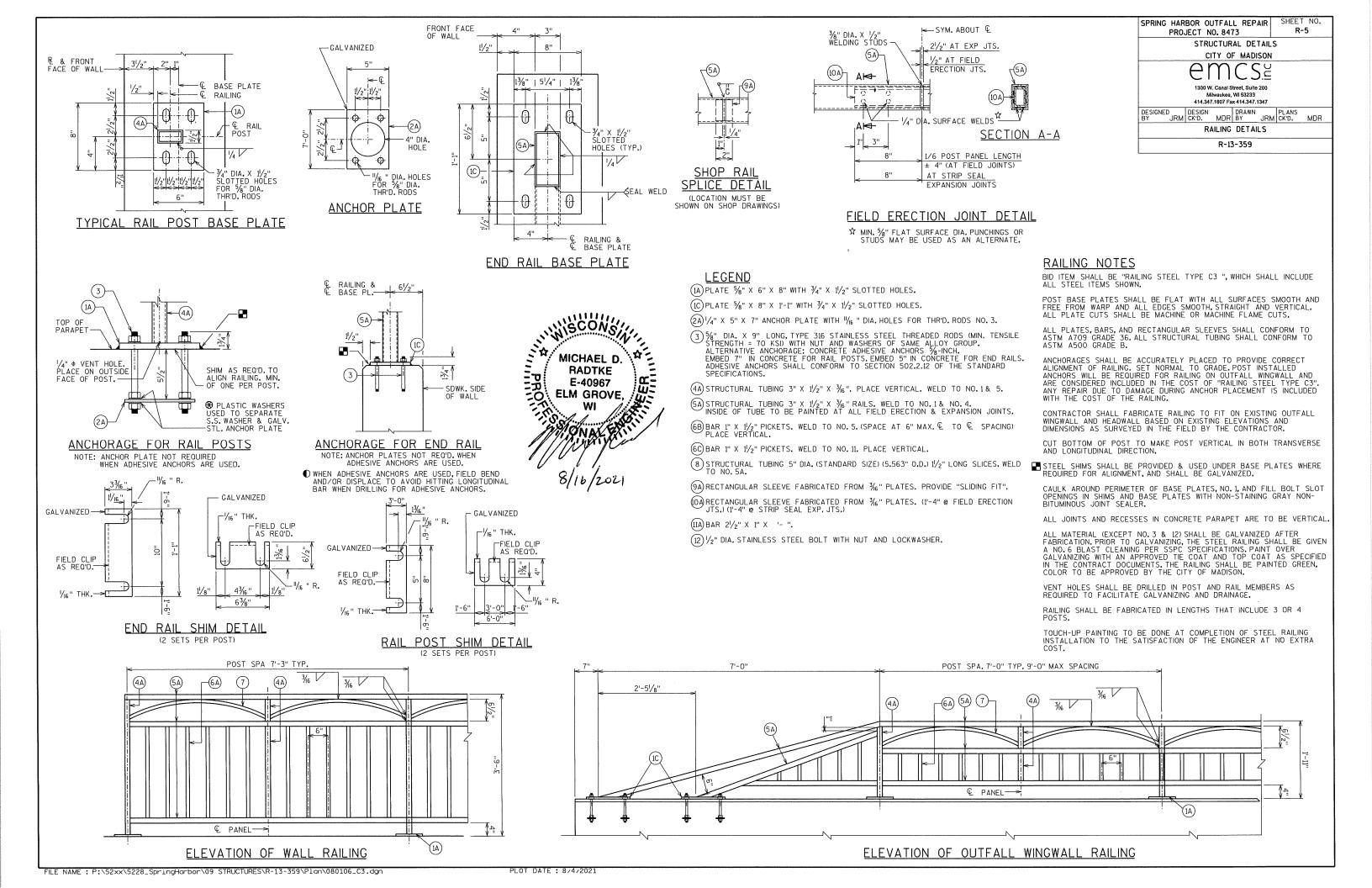
THE WATERPROOFING MEMBRANE, JOINT FILLER, SEALANT, AND SAWCUTTING OF EXISTING OUTFALL, ARE CONSIDERED INCLUDED IN BID ITEM "CONCRETE RETAINING WALL".

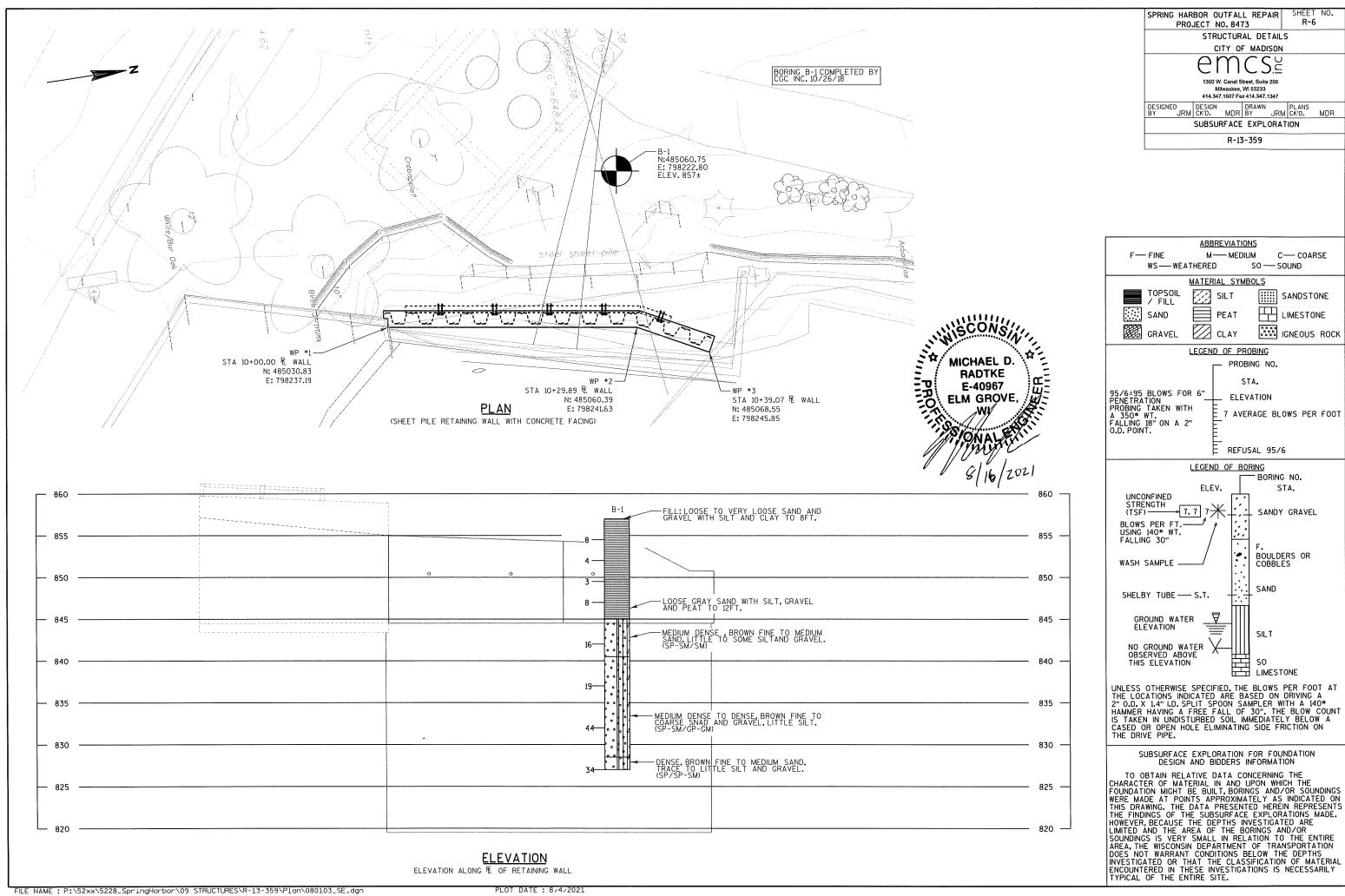
> MICHAEL D. RADTKE

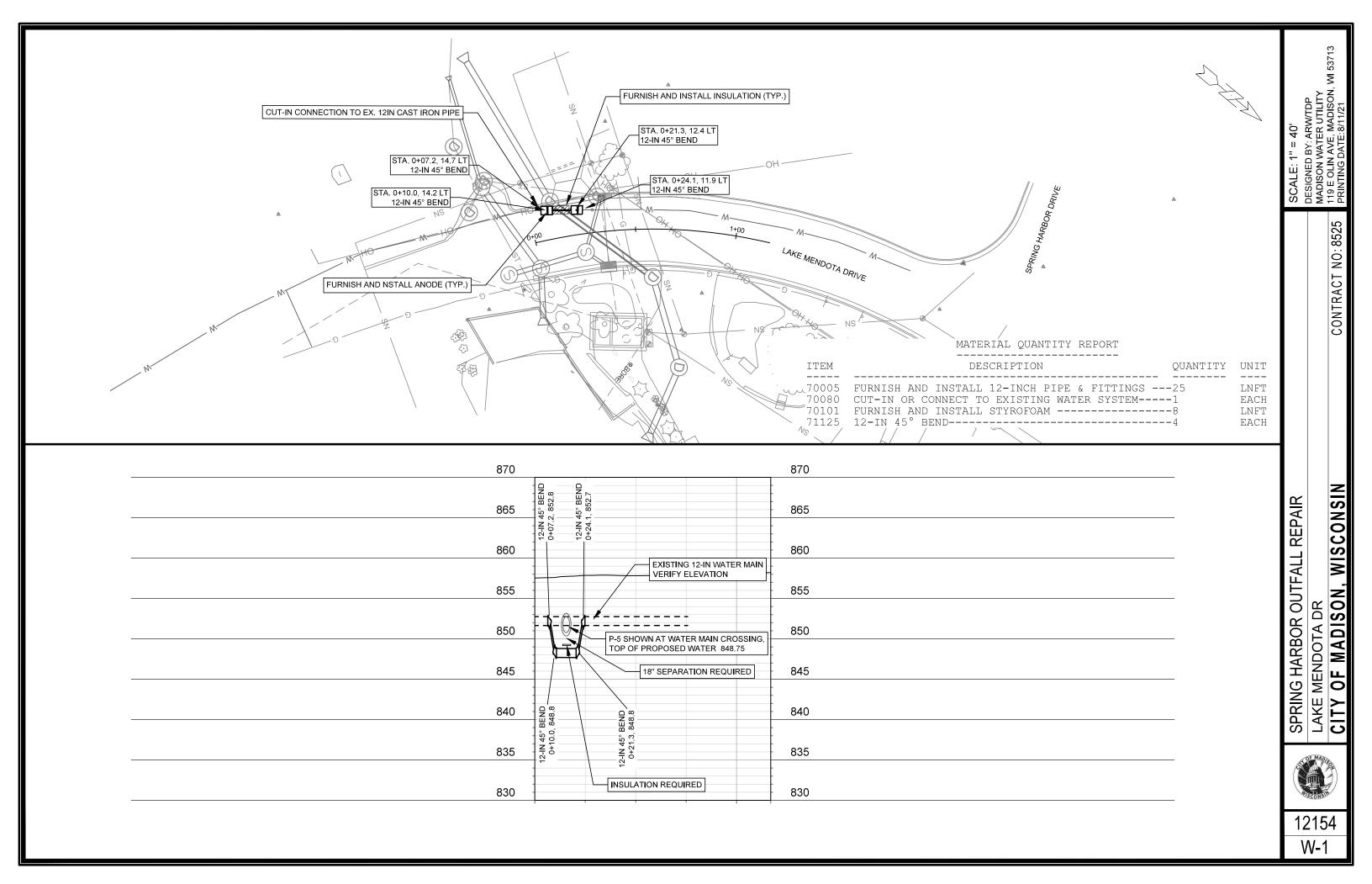
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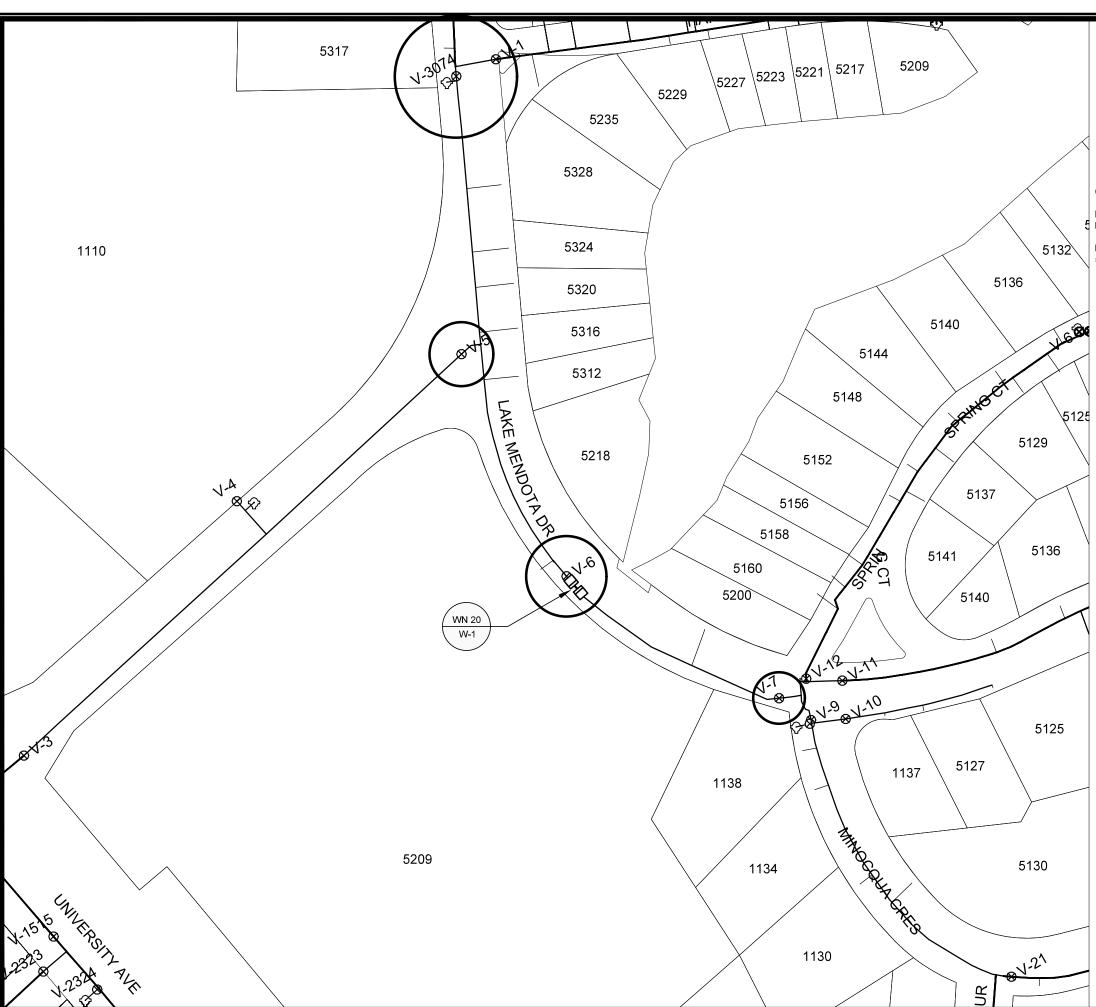






WATER IMPACT PLAN LAKE MENDOTA CITY OF MADISON, WISCONSIN

12154

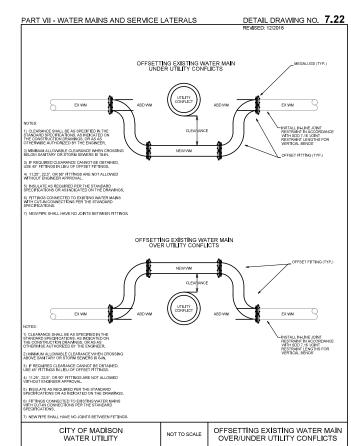




CUT-IN CONNECTION WN20 W-1 AT LAKE MENDOTA DR 12IN

ISOLATION VALVES: V-12 AT SPRING CT, V-5 AT SPRING HARBOR DR, V-3074 AT HARBOR CT, AND V-6 AT LAKE MENDOTA DR

NOTIFY:5200 THROUGH 5328 LAKE MENDOTA DRIVE, AND SPRING HARBOR PARK AT 5221 LAKE MENDOTA DRIVE



City of Madison Standard Specifications for Public Works Construction

THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES

TO AID PLANNING CONNECTION POINT ISOLATION AND PREPARING NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

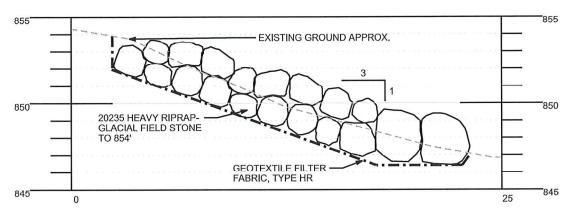
DISCLAIMER NOTE:

S1

UPHAM CT SHORELINE

CITY OF MADISON

LAKE MENDOTA



EROSION CONTROL NOTES:

- 1) TURBIDITY BARRIER WILL BE PLACED AROUND EACH SECTION OF RIPRRAP REPAIR. TURBIDITY BARRIER WILL BE PLACED PRIOR TO ANY SHORELINE DISTURBANCE. TURBIDITY BARRIER IN GOOD
- 2) ALL DISTURBED AREAS SHALL BE RESTORED WITH 4 INCHES OF TOPSOIL, SHADY INFILTRATION SEED MIX, AND EROSION MATTING, UNLESS OTHERWISE NOTED.
- 3) SILT FENCE OR SILT SOCK SHALL BE INSTALLED AS DIRECTED BY THE CONSTRUCTION ENGINEER.
- 4) SILT FENCE SHALL BE PLACED AROUND ALL STOCKPILE AREAS.
- 5) THE PROJECT SITE SHALL BE INSPECTED WEEKLY, AND WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN 0.5".
- 6) ALL EQUIPMENT ON SITE SHALL BE DECONTAMINATED FOR INVASIVE SPECIES AND VIRUSES.

CONSTRUCTION NOTES:

- 1) THE EXISTING GLACIAL FIELD STONE WILL BE REMOVED. REUSABLE STONE WILL BE SALVAGED AND STOCKPILED.
- 2) MINOR BANK REGRADING OR FILLING MAY BE NECESSARY WHERE EROSION HAS UNDERCUT
- 3) GEOTEXTILE FILTER FABRIC, TYPE HR WILL BE PLACED ON THE REGRADED BANK.
- 4) THE SALVAGED STONE WILL BE REPLACED AND AUGMENTED WITH ADDITIONAL GLACIAL FIELD STONE AS NECESSARY.



