Madison, Wisconsin

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT
RESURFACING 2022

INDEX OF SHEETS

SHEET NO.	U1-U3	UTILITY PLAN & PROFILES
SHEET NO.	U4	STORM SEWER SCHEDULE

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED 2/1/2022

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

Greg Fries — Feb 21, 2022

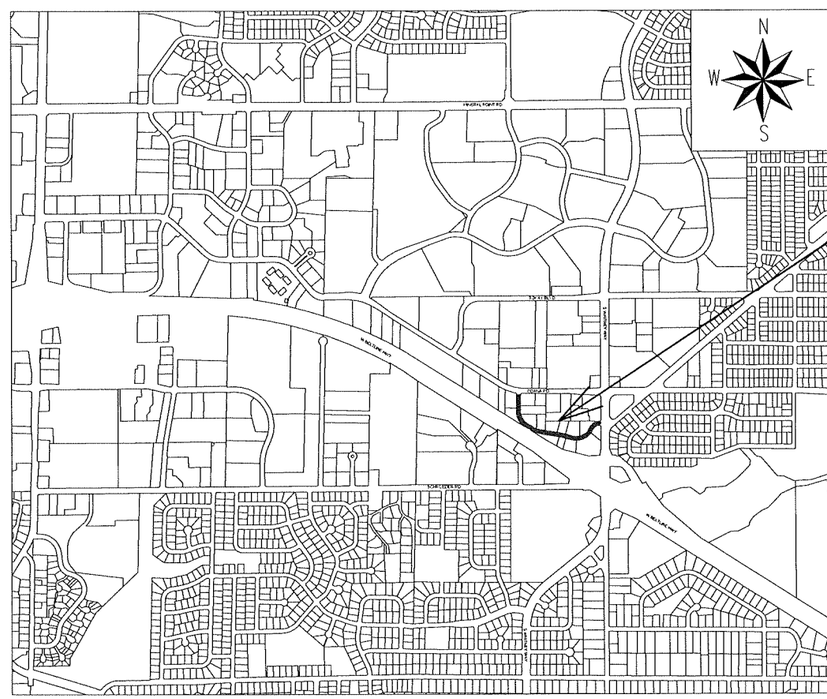
City Engineer — Date

STORM SEWER DESIGNED BY:

WISCONSIN
JANET SCHMIDT
E-34681
MADISON
WI
PROFESSIONAL ENGINEER

Janet Schmidt

CITY PROJECT NO. 13703
CONTRACT NO. 8617



PROJECT LOCATION

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ORIGINATOR: CITY_OF_MADISON

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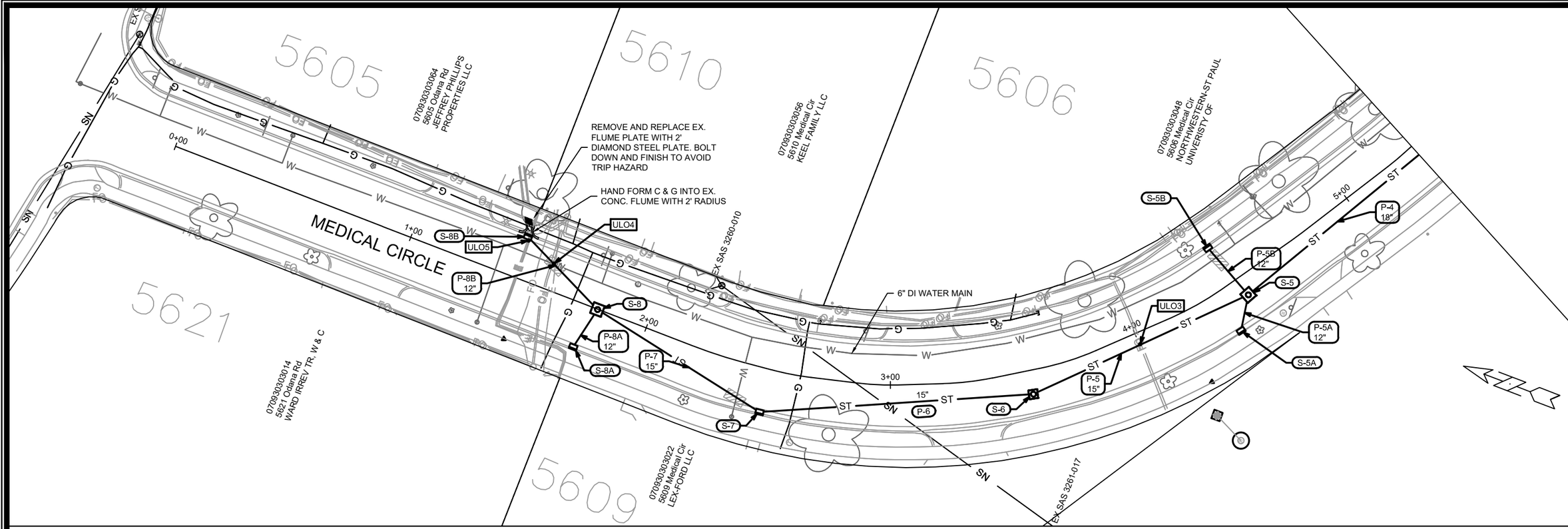
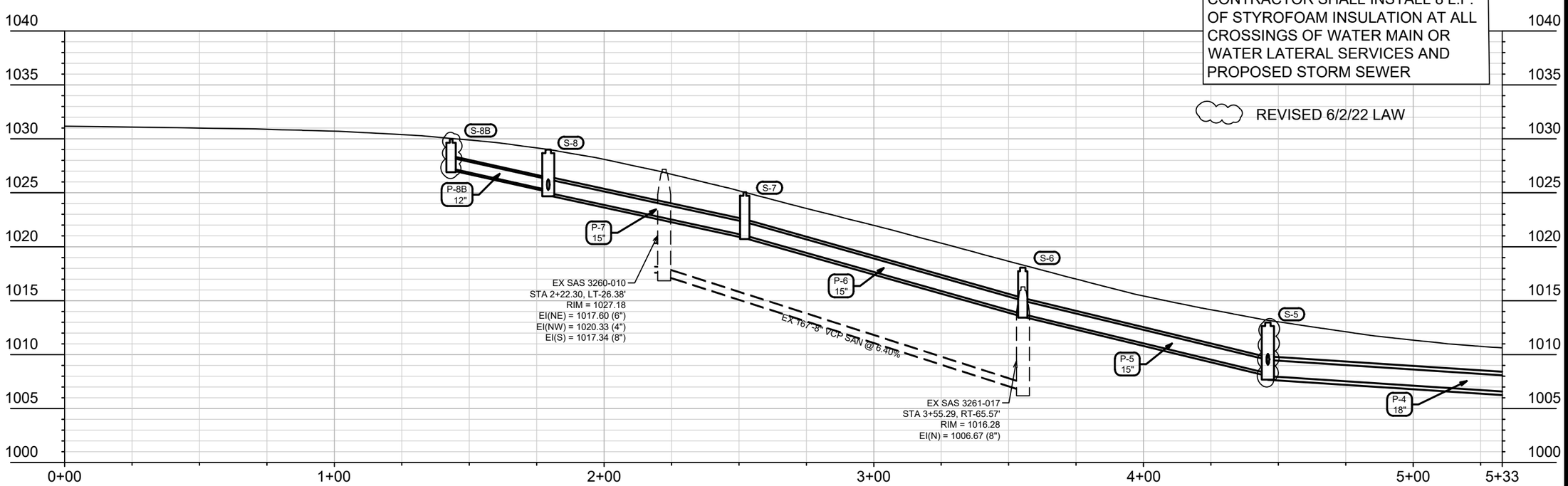


CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

REVISED 6/2/22 LAW



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1	REVISION 1	6/2/22	LAW

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13703

MADISON, WI

CONTRACT NO: 8617

MEDICAL CIRCLE - STORM

RESURFACING 2022

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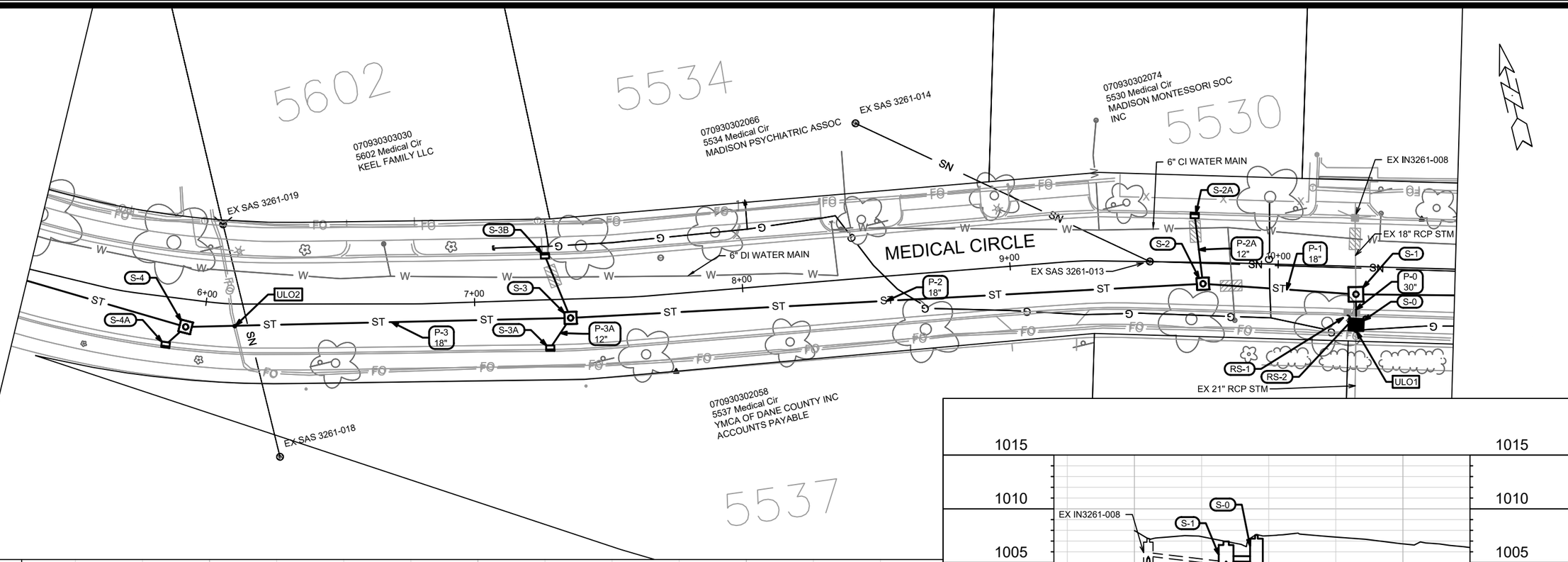
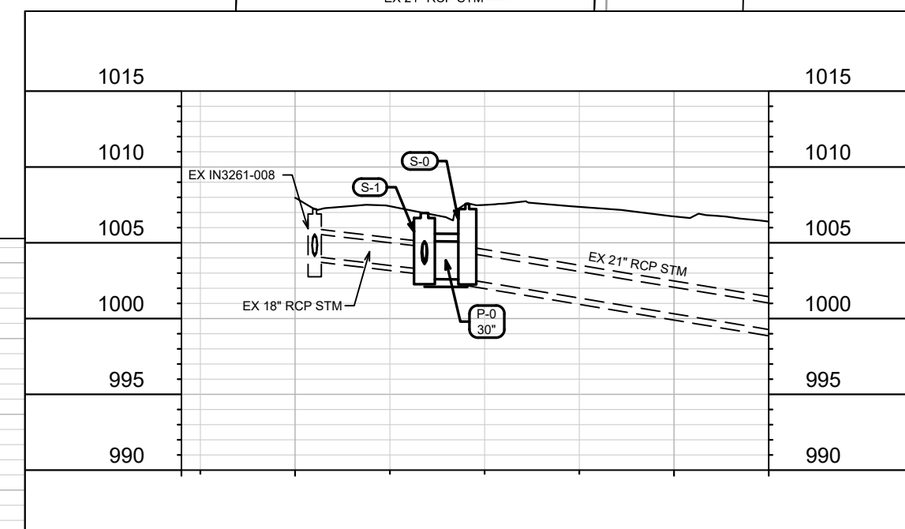
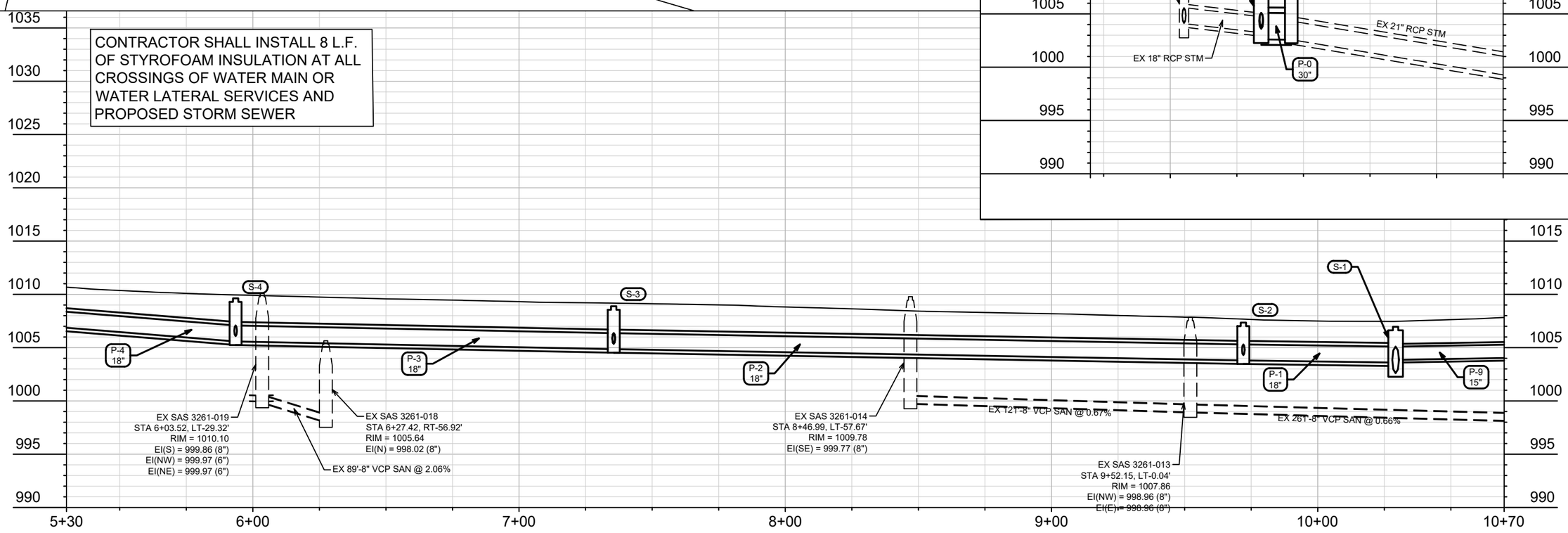
13703

U-1





CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER



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13703

U-3

13703

MADISON, WI

8617

CONTRACT NO:

MEDICAL CIRCLE - STORM

RESURFACING 2022

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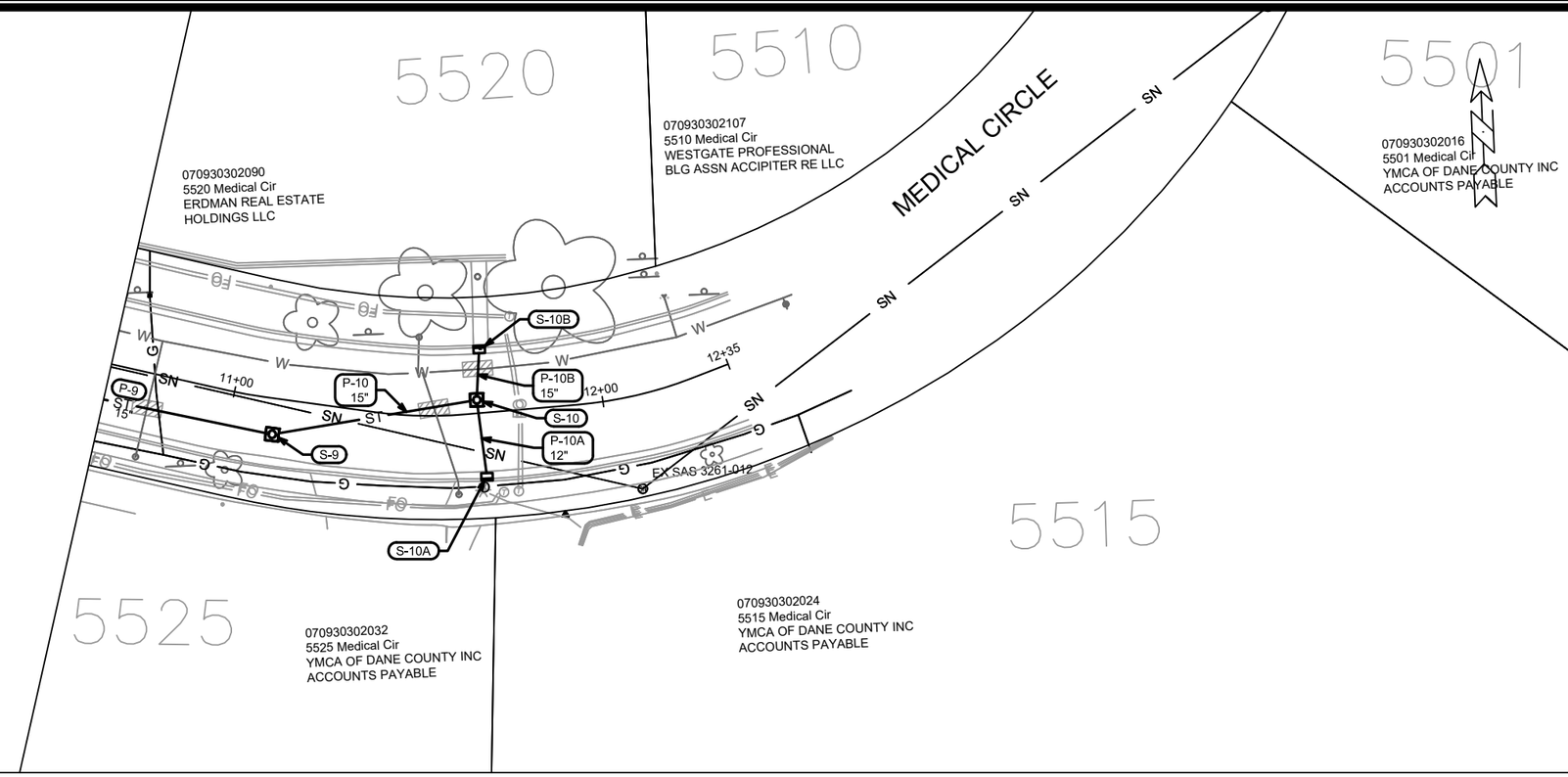
13703

U-2



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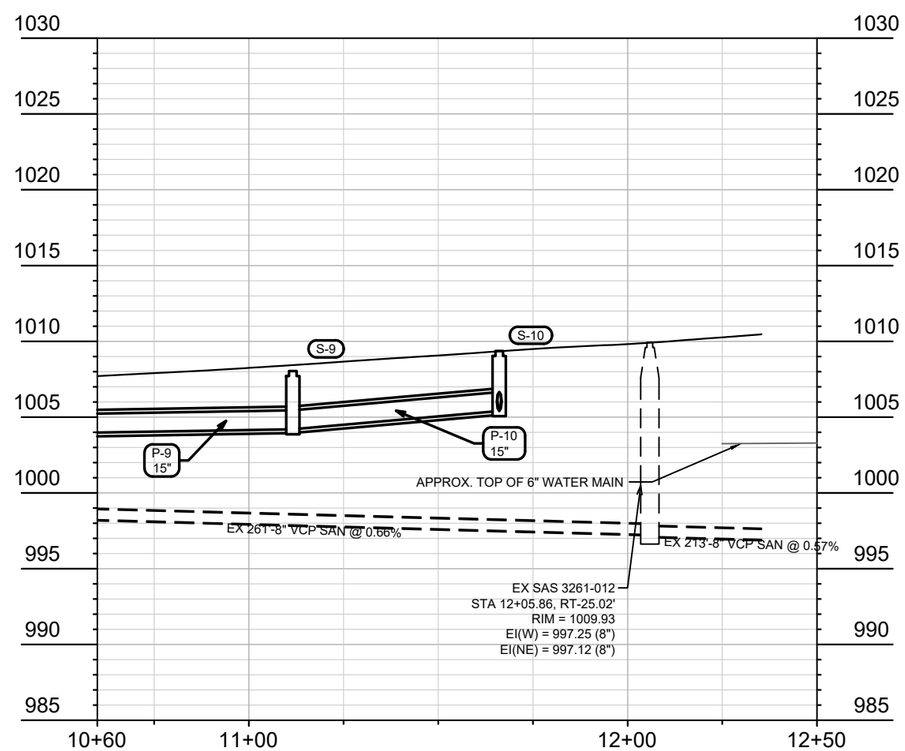

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MADISON, WI

CONTRACT NO: 8617

MEDICAL CIRCLE - STORM

RESURFACING 2022

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13703

U-3

STORM SEWER SCHEDULE

*Revised 6-3-22 LAW

RESURFACING - MEDICAL CIRCLE	SHEET NO.
PROJECT NO. 13703	U-4
STORM SEWER SCHEDULE	
	CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MEDICAL CIRCLE							
S-0	10+29.65	RT-21.70	TYPE 2 TERRACE INLET	1007.55	1002.58	4.97	FP; LP [1]
S-1	10+29.24	RT-10.41	5x5 SAS	1006.96	1002.60	4.36	FP; W/ R-1550-0054
S-2	9+72.05	RT-7.96	4x4 SAS	1007.35	1003.80	3.55	FP; W/ R-1550-0054
S-2A	9+68.63	LT-17.41	H INLET	1007.97	1004.60	3.37	W/ R-3067-7004-V
S-3	7+35.55	RT-7.04	4x4 SAS	1008.88	1004.86	4.02	W/ R-1550-0054
S-3A	7+27.64	RT-18.04	H INLET	1008.86	1005.50	3.36	W/ R-3067-7004-V
S-3B	7+26.73	LT-16.41	H INLET	1009.24	1005.90	3.34	W/ R-3067-7004-V
S-4	5+93.53	RT-10.27	4x4 SAS	1009.62	1005.58	4.04	W/ R-1550-0054
S-4A	5+86.97	RT-17.83	H INLET	1009.41	1006.55	2.86	FP; W/ R-3067-7004-V
* **S-5**	4+46.12	RT-7.83	4x4 SAS	1012.97	**1008.00**	**4.97**	W/ R-1550-0054
S-5A	4+35.99	RT-17.88	H INLET	1013.57	1010.00	3.57	W/ R-3067-7004-V
S-5B	4+43.65	LT-16.57	H INLET	1013.32	1009.75	3.57	W/ R-3067-7004-V
S-6	3+55.22	RT-9.50	3x3 SAS	1018.05	1013.75	4.30	W/ R-1550-0054
S-7	2+52.17	RT-17.39	3x3 SAS	1025.05	1021.05	4.00	W/ R-3067-7004-V
S-8	1+79.32	RT-0.14	4X4 SAS	1029.01	1025.00	4.01	W/ R-1550-0054
S-8A	1+75.68	RT-17.44	H INLET	1028.99	1025.65	3.34	W/ R-3067-7004-V
* **S-8B**	1+43.30	LT-16.88	H INLET	1029.97	**1027.25**	**2.72**	W/ R-1878-B7G [2]
S-9	11+11.62	RT-9.70	3x3 SAS	1008.04	1004.20	3.84	W/ R-1550-0054
S-10	11+66.11	LT-3.60	4X4 SAS	1009.36	1005.40	3.96	W/ R-1550-0054
S-10A	11+67.10	RT-17.28	H INLET	1009.23	1005.89	3.34	W/ R-3067-7004-V
S-10B	11+67.94	LT-17.11	H INLET	1009.39	1005.66	3.73	W/ R-3067-7004-V

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
P-0	S-0	S-1	1002.58	1002.60	11	7	0.28%	30"	RCP	
P-1	S-1	S-2	1003.6	1003.80	57	53	0.38%	18"	RCP	
P-2	S-2	S-3	1003.80	1004.86	236	232	0.46%	18"	RCP	
P-2A	S-2	S-2A	1004.30	1004.60	26	23	1.33%	12"	RCP	
P-3	S-3	S-4	1004.86	1005.58	143	140	0.51%	18"	RCP	
P-3A	S-3	S-3A	1005.36	1005.50	14	10	1.43%	12"	RCP	
P-3B	S-3	S-3B	1005.36	1005.90	25	22	2.47%	12"	RCP	
* **P-4**	S-4	S-5	1005.58	**1008.00**	149	145	1.67%	18"	RCP	
P-4A	S-4	S-4A	1006.08	1006.55	10	6	7.57%	12"	RCP	
* **P-5**	S-5	S-6	**1008.25**	1013.75	94	90	6.09%	15"	RCP	
P-5A	S-5	S-5A	1009.06	1010.00	15	11	8.94%	12"	RCP	
P-5B	S-5	S-5B	1009.06	1009.75	25	22	3.19%	12"	RCP	
P-6	S-6	S-7	1013.75	1021.05	109	106	6.88%	15"	RCP	
P-7	S-7	S-8	1021.00	1025.00	76	73	5.51%	15"	RCP	
P-8A	S-8	S-8A	1025.25	1025.65	18	15	2.73%	12"	RCP	
* **P-8B**	S-8	S-8B	1025.25	**1027.25**	40	36	5.54%	12"	RCP	
P-9	S-1	S-9	1003.85	1004.20	83	79	0.44%	15"	RCP	
P-10	S-9	S-10	1004.20	1005.40	56	53	2.27%	15"	RCP	
P-10A	S-10	S-10A	1005.65	1005.89	21	19	1.28%	12"	RCP	
P-10B	S-10	S-10B	1005.40	1005.66	14	11	2.33%	15"	RCP	

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO	STATION	LOCATION (OFFSET)	TYPE	NOTES
MEDICAL CIRCLE					
RS-1	IN3261-009H	10+26.21	RT-18.37	H INLET	
RS-2	IN3261-010	10+29.56	RT-18.50	H INLET	

ULO LOCATIONS

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	DEPTH	NOTES
* **ULO 1**	10+29.68	RT-23.98	**BT**	**1002.48**	
* **ULO 2**	6+10.89	RT-8.26	**BT 3"**	**1005.06**	
* **ULO 3**	4+00.25	RT-4.69	**BFO 3"**	**1012.27**	
* **ULO 4**	1+56.66	LT-10.64	**BT 3"**	**1027.72**	
* **ULO 4**	1+56.66	LT-10.64	**BE 1"**	**1027.42**	
* **ULO 4**	1+56.66	LT-10.64	**BW TOP**	**1022.24**	
* **ULO 5**	1+44.05	LT-15.55	**BE**	**1025.94**	

SPECIFIC NOTES:

[1] SEE S.D.D. 5.7.12A
[2] DEPTH TO TOP OF FLAT CASTING

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 LUCAS WARDELL OF CITY ENGINEERING AT (608) 243-5894 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO LWARDELL@CITYOFMADISON.COM.