

Madison, Wisconsin
INDEX OF SHEETS

SHEET NO.	TITLE
1	PROJECT LOCATION MAPS
STMQ	STORM SEWER QUANTITIES
ECI-EC13	EROSION CONTROL SHEETS
ARI-AR3	ADVANCE RD STORM PLAN & PROFILE & SCHEDULE
ACI	AMMERMAN CIR STORM PLAN & PROFILE & SCHEDULE
BR1-BR3	BEEHNER CIR & RALPH CIR STORM PLAN & PROFILE & SCHEDULE
DL1-DL2	DAFFODIL LN STORM PLAN & PROFILE & SCHEDULE
HP1-HP4	HAMLET PL STORM PLAN & PROFILE & SCHEDULE
MH1-MH2	MASTHEAD DR STORM PLAN & PROFILE & SCHEDULE
WO1-WO3	W OAKBROOK CIR STORM PLAN & PROFILE & SCHEDULE
SRI-SR4	TOMPKINS DR & SEIFERTH RD STORM PLAN & PROFILE & SCHEDULE
VA1-VA4	VALLEY RD STORM PLAN & PROFILE & SCHEDULE
VR1-VR5	VONDRON RD STORM PLAN & PROFILE & SCHEDULE
WC1-WC3	WALKER DR STORM PLAN & PROFILE & SCHEDULE
YS1-YS5	N YELLOWSTONE DR STORM PLAN & PROFILE & SCHEDULE

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

RESURFACING 2019

CURB & GUTTER AND CASTINGS (STORM SEWER)

CITY PROJECT NO. 11856

CONTRACT NO. 8318

PUBLIC IMPROVEMENT PROJECT APPROVED

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

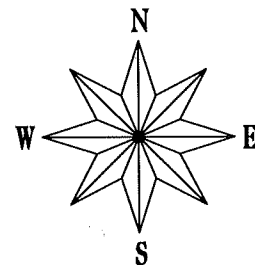
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 2/15/19
City Engineer Date

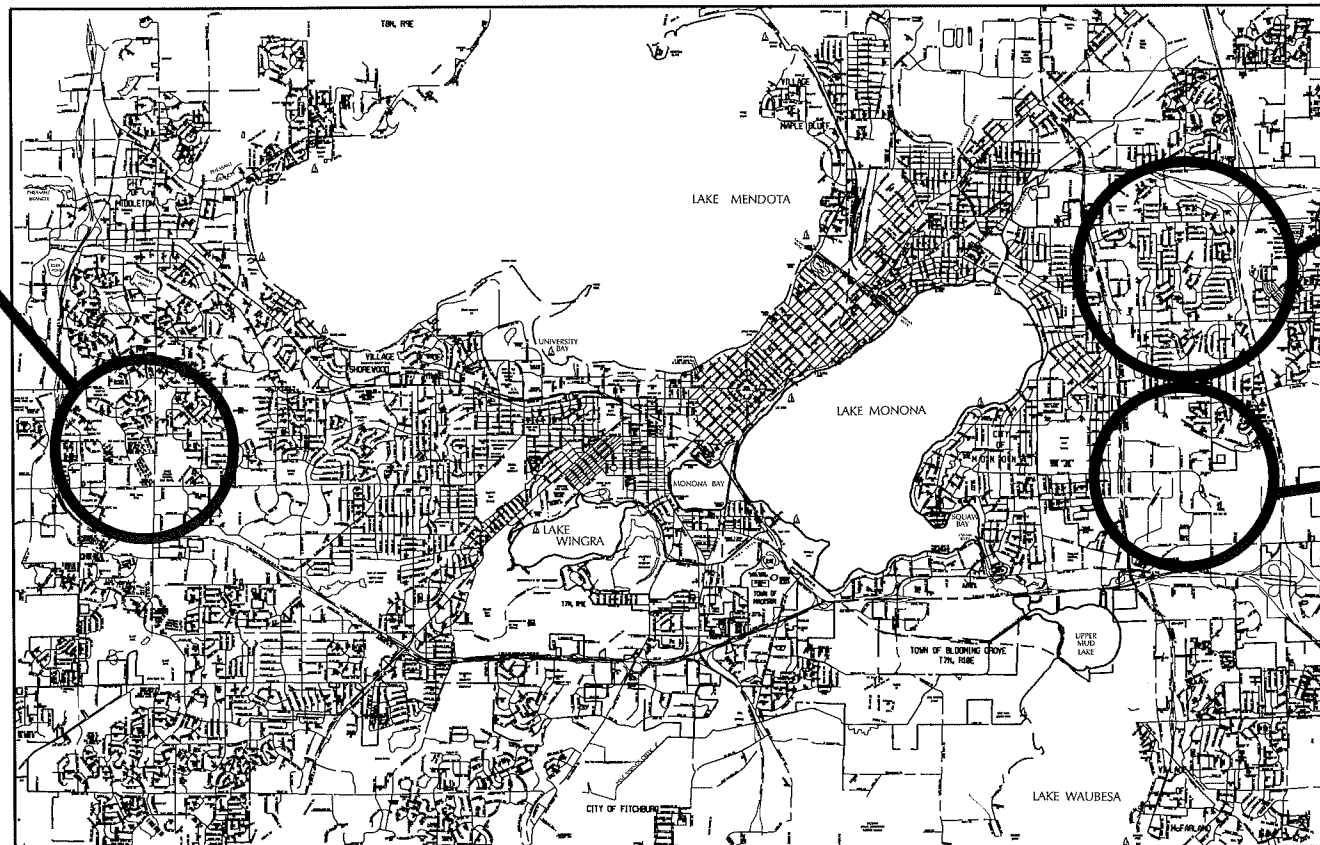
STORM SEWER DESIGNED BY:



2-15-19



MASTHEAD DR
W OAKBROOK CIR
N YELLOWSTONE DR



AMMERMAN CIR
BEEHNER CIR
RALPH CIR
DAFFODIL LN
HAMLET PL
VALLEY RD
WALKER DR

ADVANCE RD
TOMPKINS DR
SEIFERTH RD
VONDRON RD

CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

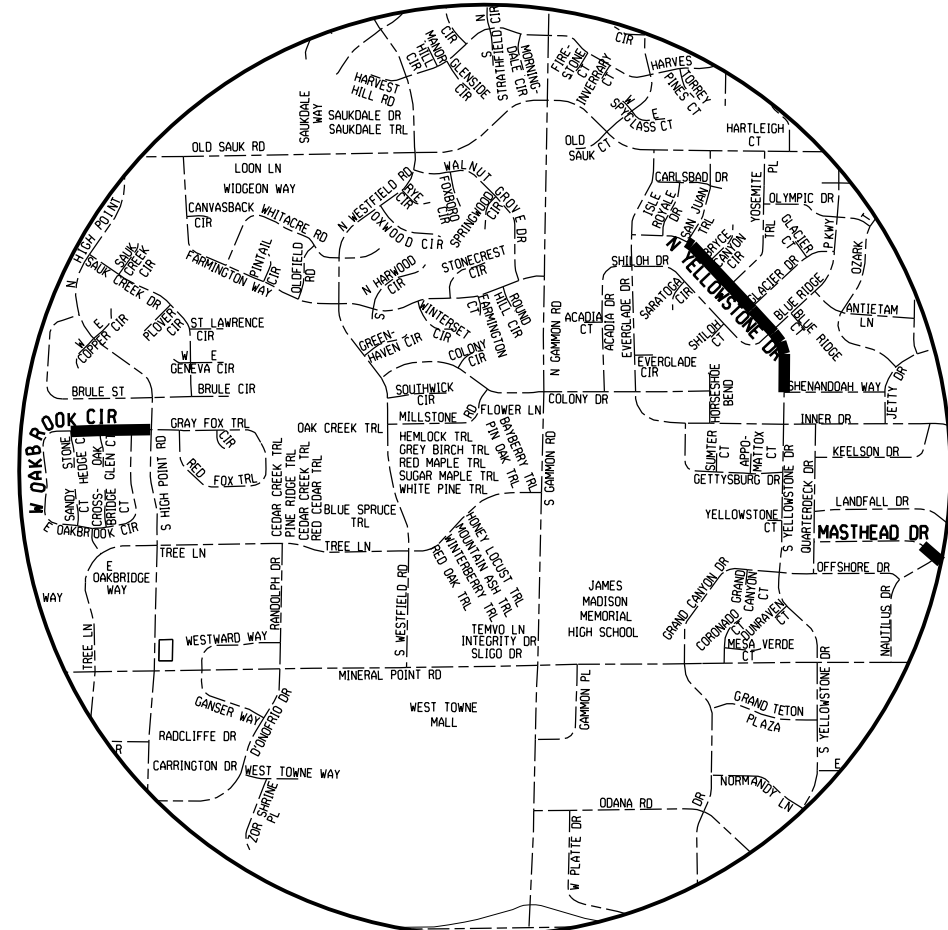
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▤
COMBUSTIBLE FLUIDS	⚠

NOTES:

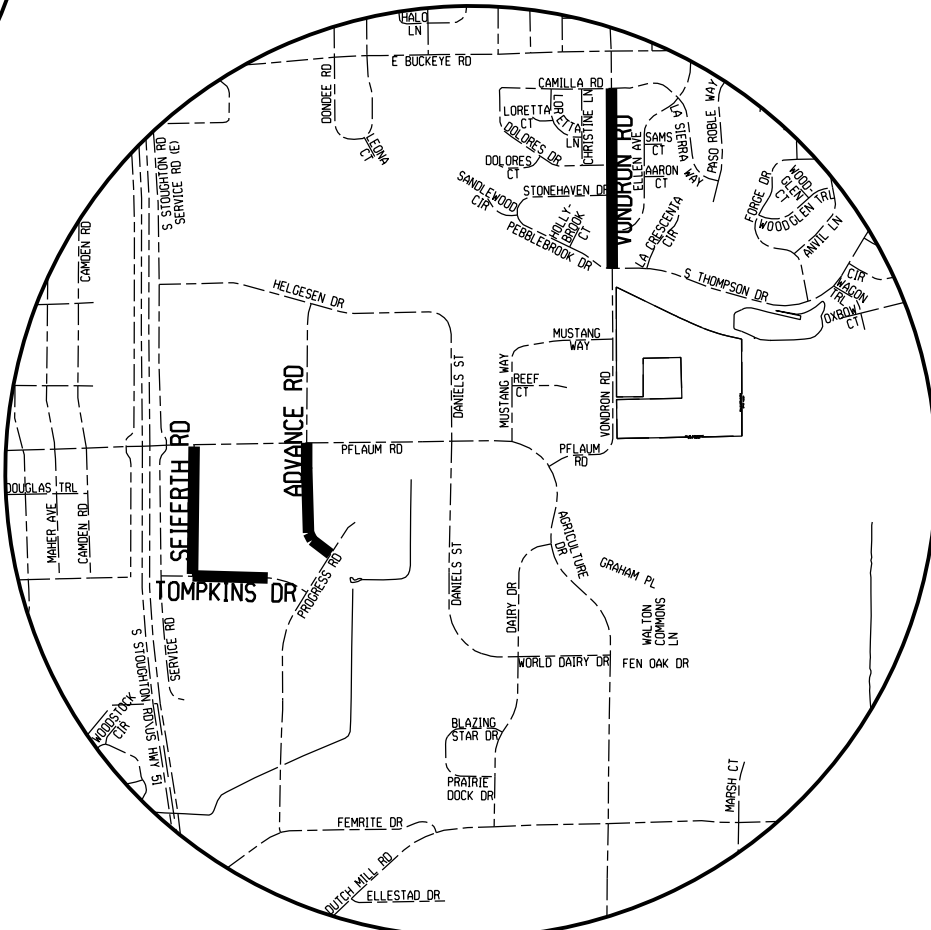
ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS 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%.

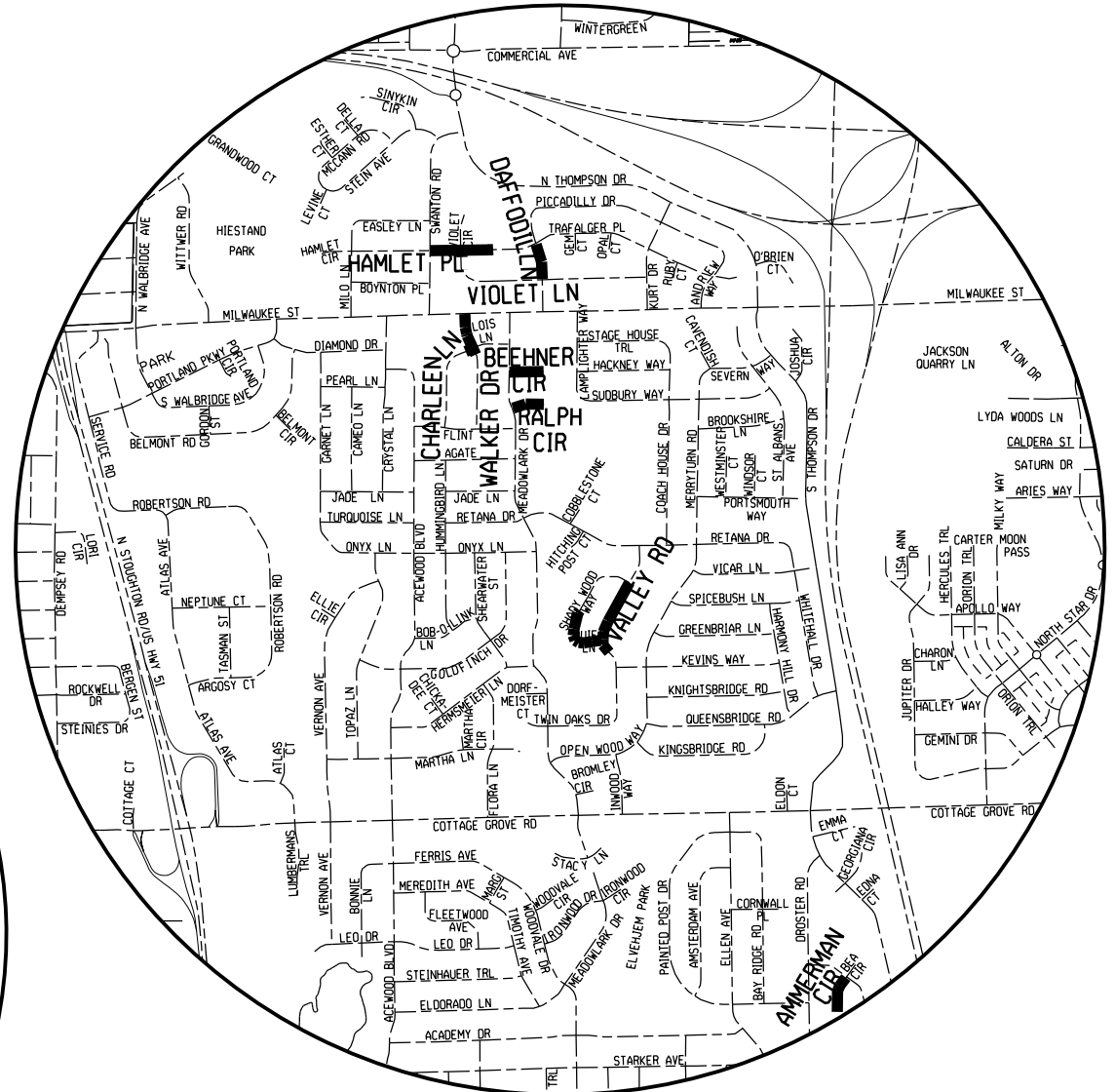
CONSTRUCTION PROJECT LOCATIONS



**MASTHEAD DR
W OAKBROOK CIR
N YELLOWSTONE DR**



**ADVANCE RD
TOMPKINS DR
SEIFERTH RD
VONDRON RD**

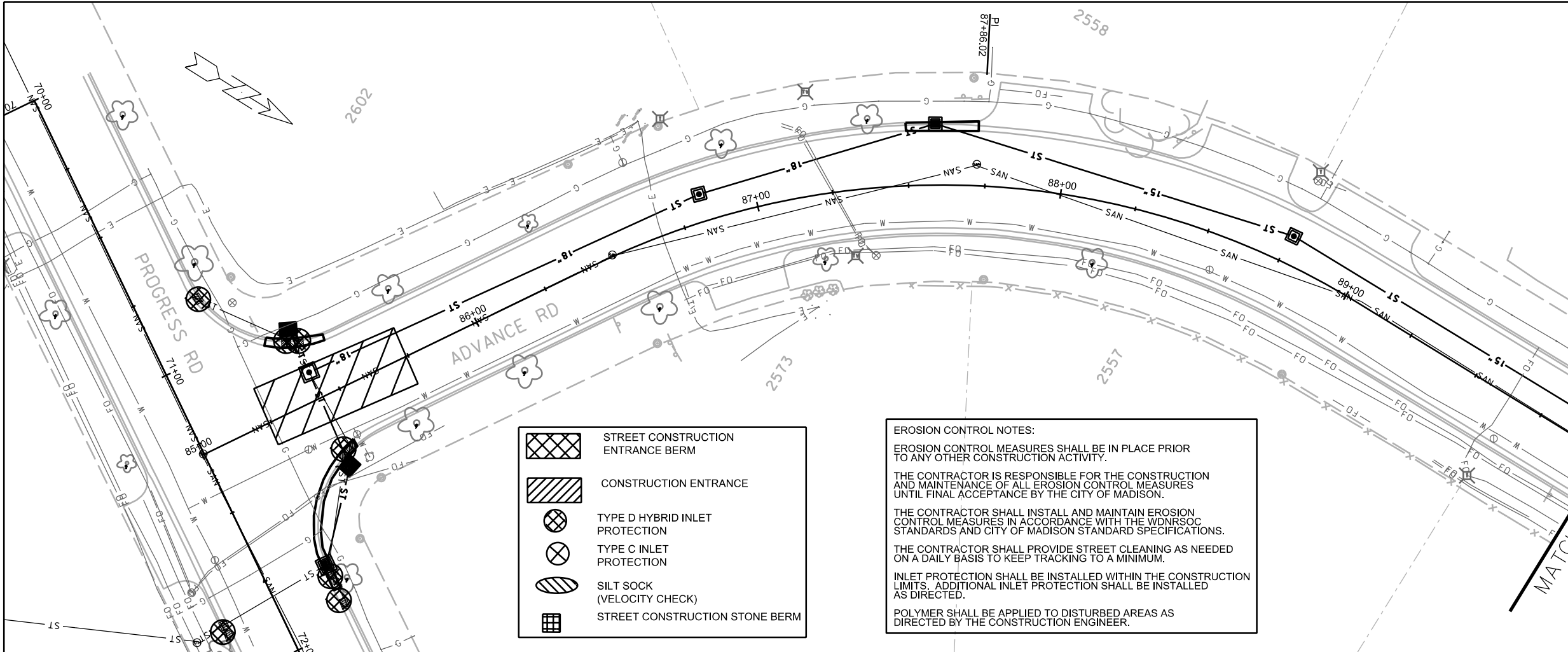








**AMMERMAN CIR
BEEHNER CIR
RALPH CIR
DAFFODIL LN
HAMLET PL
VALLEY RD
WALKER DR**



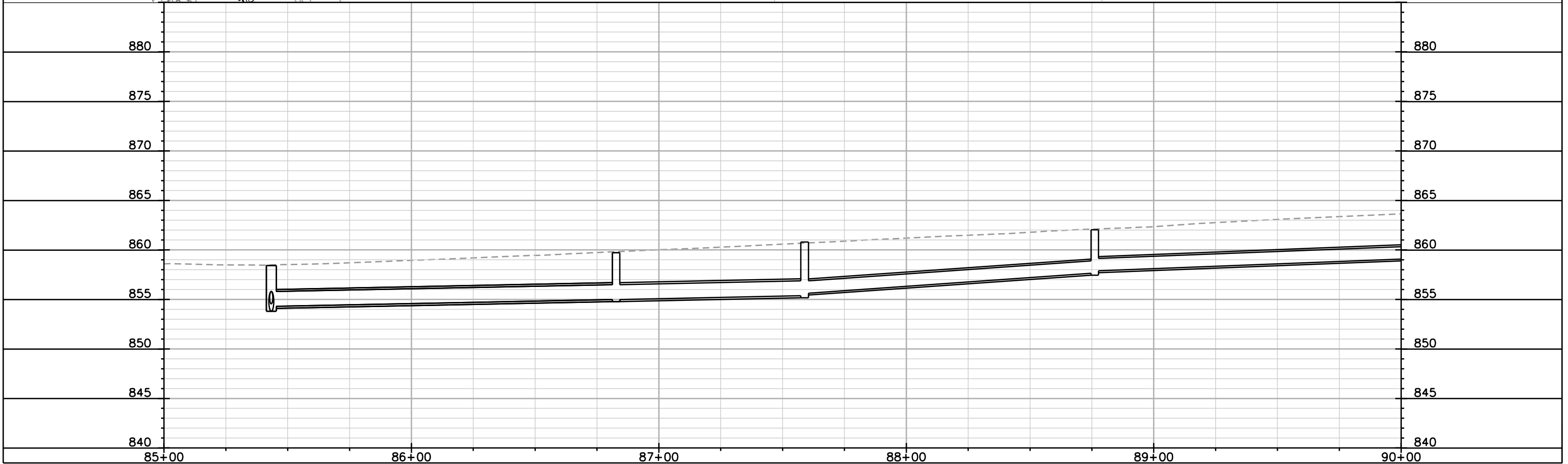
STORM SEWER QUANTITIES

ITEM NO.	TYPE OF WORK	UNIT	STREETS												TOTAL		
			UNDISTRIBUTED	ADVANCE RD (AR1-AR3)	AMMERMAN CIR (AC-1)	BEEHNER CIR RALPH CIR (BR1-BR3)	DAFFODIL LN (DL1-DL2)	HAMLET PL (HP1-HP4)	MASTHEAD DR (MH1-MH2)	W OAKBROOK CIR (WO1-WO3)	SEIFERTH RD (SR1-SR4)	VALLEY RD (VA1-VA4)	VONDRON RD (VR1-VR5)	WALKER DR (WC1-WC3)		N YELLOWSTONE DR (YS1-YS5)	
10702	TRAFFIC CONTROL FOR STORM SEWER INSTALLATION	LUMP SUM	1														1
10912	MOBILIZATION FOR STORM SEWER INSTALLATION	LUMP SUM	1														1
20101	EXCAVATION CUT	CY															4
21011	CONSTRUCTION ENTRANCE	EACH		1		2	1	1	2	1	3	2	2	2	3		20
21002	EROSION CONTROL INSPECTION	EACH	75														75
21017	SILT SOCK (8-INCH)-COMPLETE	LF	500		30				50		50				50		680
21063	EROSION MATTING, CLASS I, TYPE A ORGANIC	SY		80	5	40	30	30	150	24	30	40	60	18	220		727
20217	CLEAR STONE	TON		45		85	45	45	85	45	135	85	85	85	135		875
20221	TOPSOIL	SY	100	80	5	40	30	30	150	24	30	40	60	18	220		827
20230	HEAVY RIPRAP	TON							5		5	5					15
20233	RIPRAP FILTER FABRIC, TYPE HR	SY							5		5	5					15
20313	REMOVE INLET	EACH		3	1												6
20314	REMOVE PIPE	LF															10
20336	PIPE PLUG	EACH															1
20403	CLEARING	SY							222		22	55					299
20407	GRUBBING	SY							222		22	55					299
20701	TERRACE SEEDING	SY		80	5	40	30	30	150	24	30	40	60	18	220		727
21013	STREET SWEEPING	LUMP SUM	1														1
21031	INLET PROTECTION, TYPE C - COMPLETE	EACH	5														5
21055	INLET PROTECTION, TYPE D HYBRID - COMPLETE	EACH		7		2	7	7	2	5	4	2	7	6	7		56
30302	7 INCH CONCRETE SIDEWALK AND DRIVE	SF				200							480	200	420		1300
30340	DETECTABLE WARNING FIELDS	SF				16							64	16	64		160
40382	REMOVE & REPLACE CONCRETE CURB & GUTTER, HAND PLACED - RESURFACING	LF		142	15	120	175	175	65	141	185	225	345	110	340		2038
40391	REMOVE & REPLACE 5 INCH CONCRETE SIDEWALK - RESURFACING	SF							200			100			100		400
50211	SELECT BACKFILL FOR STORM SEWER	TF		765		119	522	1000	509	1099	1133	1405	2256	601	2263		11672
50225	UTILITY TRENCH PATCH TYPE III	TF		250		60	170	170	400	1014	1095	1280	1910	521	1900		8770
50227	UTILITY TRENCH PATCH TYPE IV	TF		475			795	795									2065
50390	SEWER ELECTRONIC MARKERS	EACH				4											4
50401	12 INCH TYPE I RCP STORM SEWER PIPE	LF		50		119	67	510	80	327	151	942	344	146	1245		3981
50402	15 INCH TYPE I RCP STORM SEWER PIPE	LF		426			59	153	33		200	278	99		369		1617
50403	18 INCH TYPE I RCP STORM SEWER PIPE	LF		222						615	289	148	750	106	317		2447
50404	21 INCH TYPE I RCP STORM SEWER PIPE	LF					396	315	66	157	144	37	740	349			2204
50405	24 INCH TYPE I RCP STORM SEWER PIPE	LF		67							41		323				431
50406	27 INCH TYPE I RCP STORM SEWER PIPE	LF						22	330		308						934
50407	30 INCH TYPE I RCP STORM SEWER PIPE	LF														58	58
50461	12 INCH RCP AE	EACH														1	1
50464	21 INCH RCP AE	EACH										1					1
50466	27 INCH RCP AE	EACH							1		1						2
50601	12 INCH RCP AE GATE	EACH													1		1
50604	21 INCH RCP AE GATE	EACH										1					1
50606	27 INCH RCP AE GATE	EACH							1		1						2
50723	3'X3' STORM SAS	EACH		4			4	5	1	6	3	6	3	6	9		47
50724	4'X4' STORM SAS	EACH		2				2	4	2	3	2	5				20
50741	TYPE 'H' INLET	EACH		4		6	5	10	4	10	10	13	16	7	18		103
50767	TERRACE INLET TYPE 2	EACH		2	1												3
50792	STORM SEWER TAP	EACH				4	2	1					1	1	2		11
50801	UTILITY LINE OPENING (ULO)	EACH		6		1		3	5	4	1	2	8	2	13		45
50802	CONCRETE SUPPORTS	EACH							2								2
90000	EXCAVATION, LOADING AND HAULING OF CONTAMINATED SOIL	TON											25				25
90030	REBUILD TRAFFIC MEDIAN	EACH											1				1
90031	RELOCATE WATER (UNDISTRIBUTED)	EACH	5														5



-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

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PLOT SCALE: _____

PLOT NAME: _____

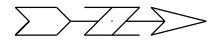
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL

ADVANCE RD

CITY OF MADISON

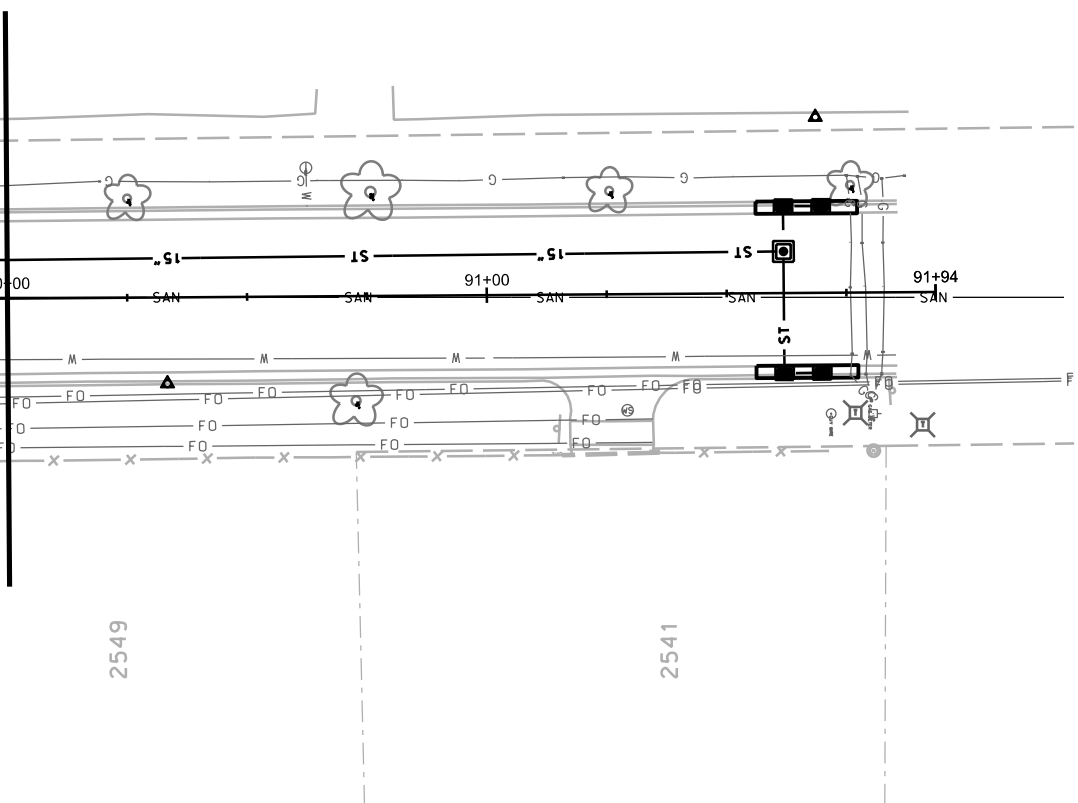


MATCHLINE STA 90+00.00

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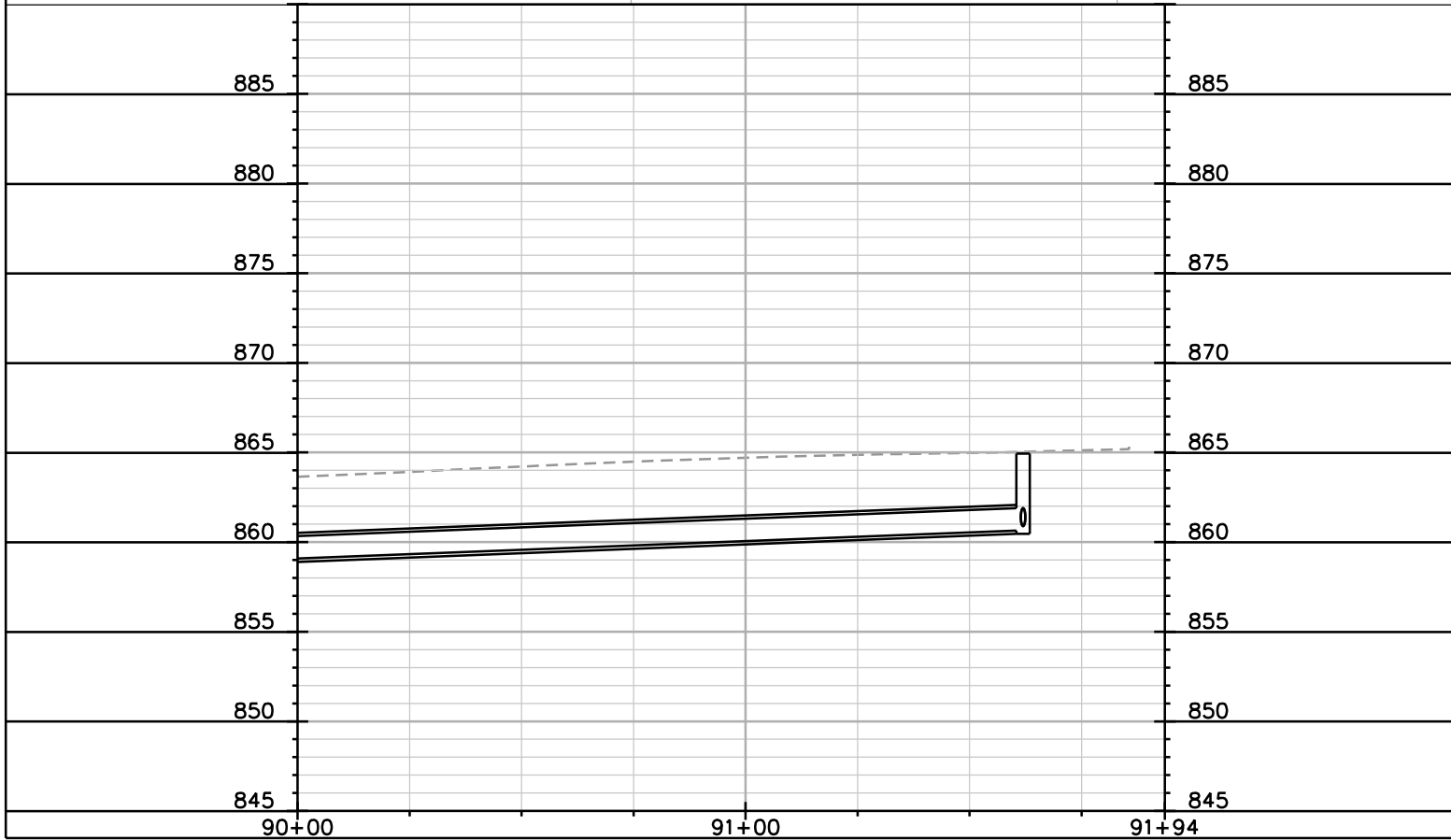
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
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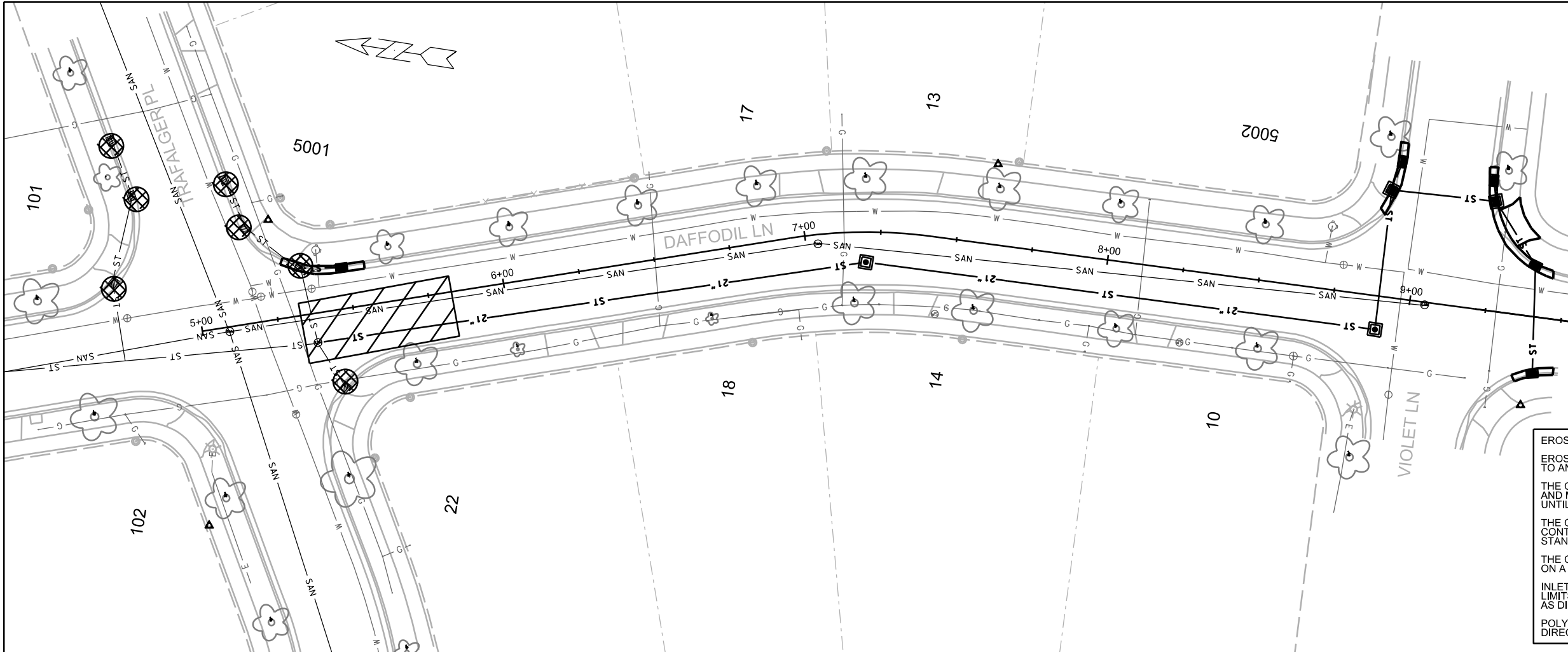
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EROSION CONTROL
DAFFODIL LN CITY OF MADISON

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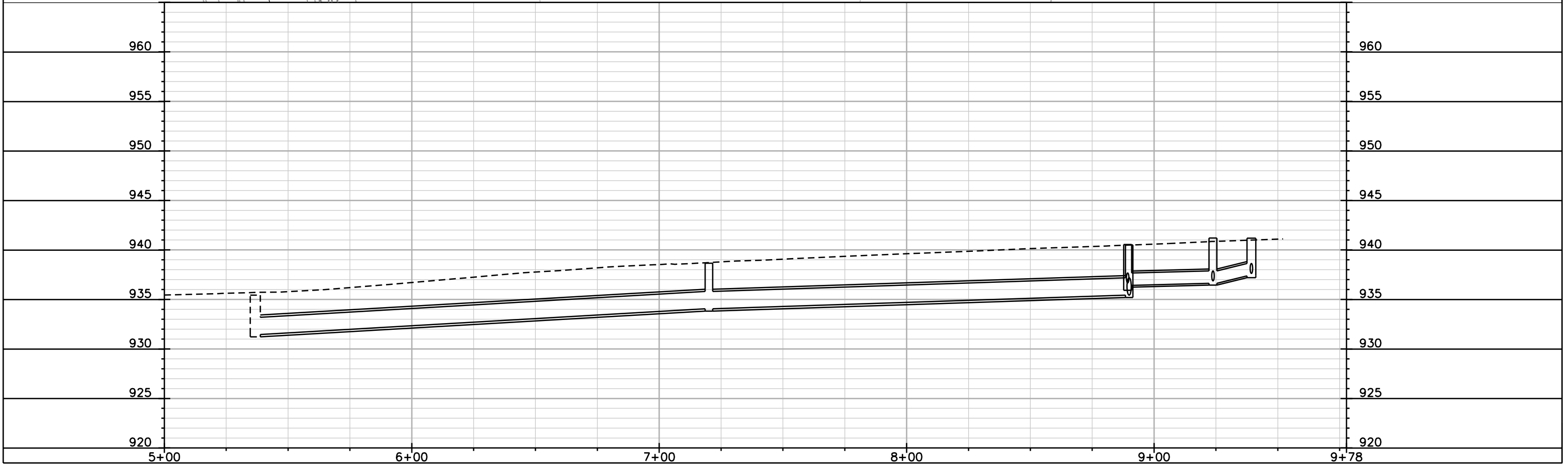
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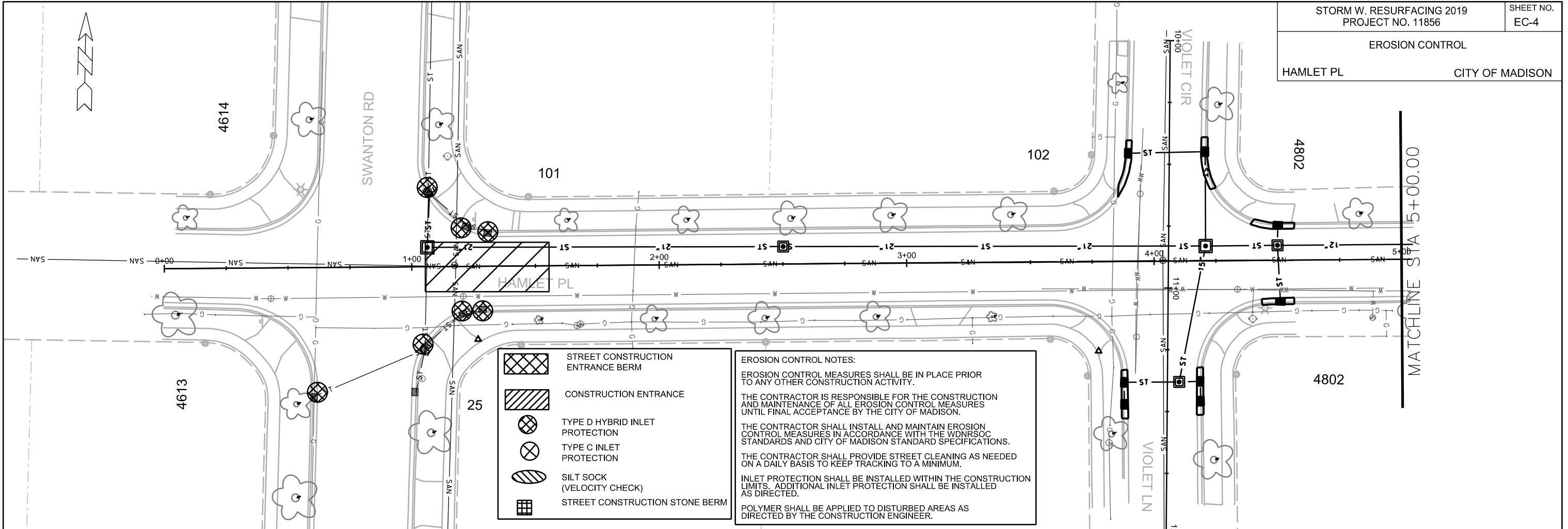








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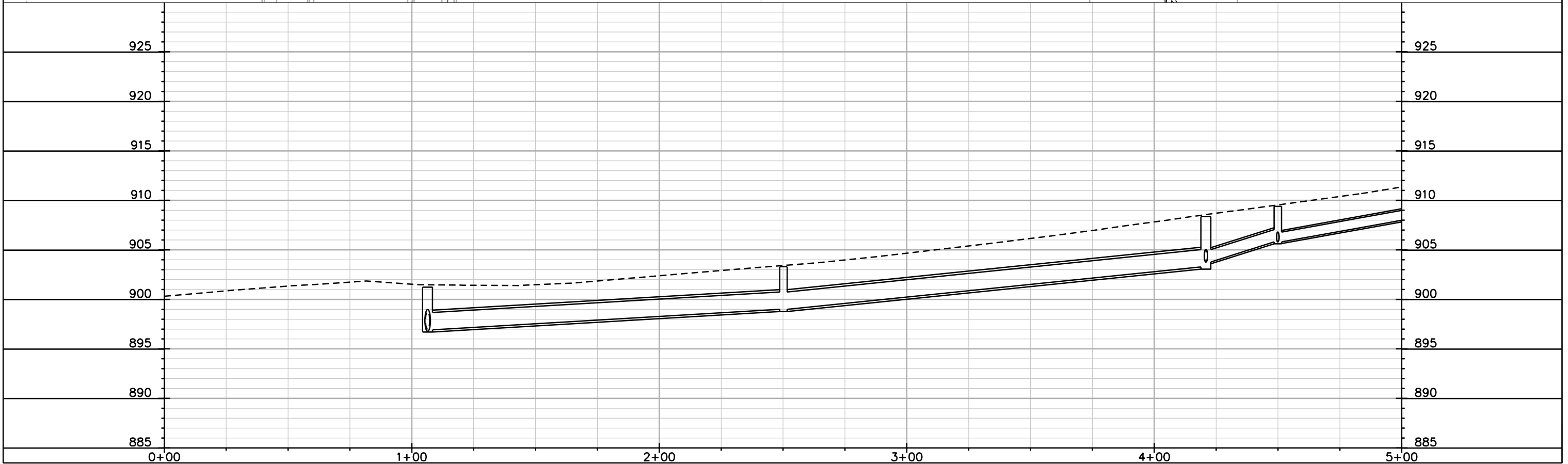
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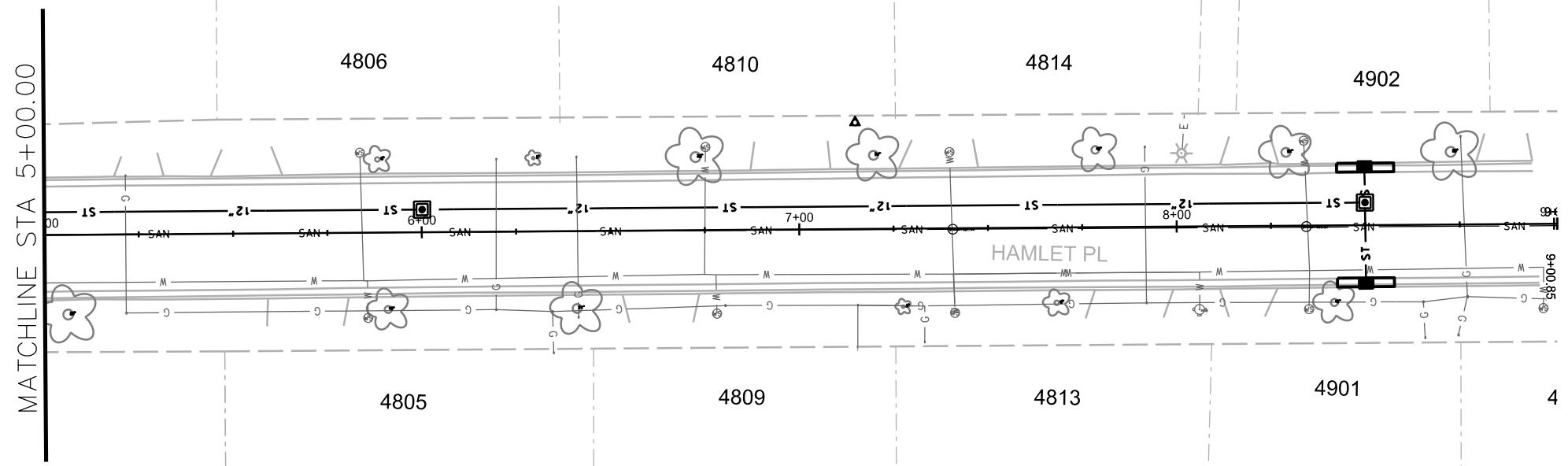
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EROSION CONTROL

HAMLET PL CITY OF MADISON



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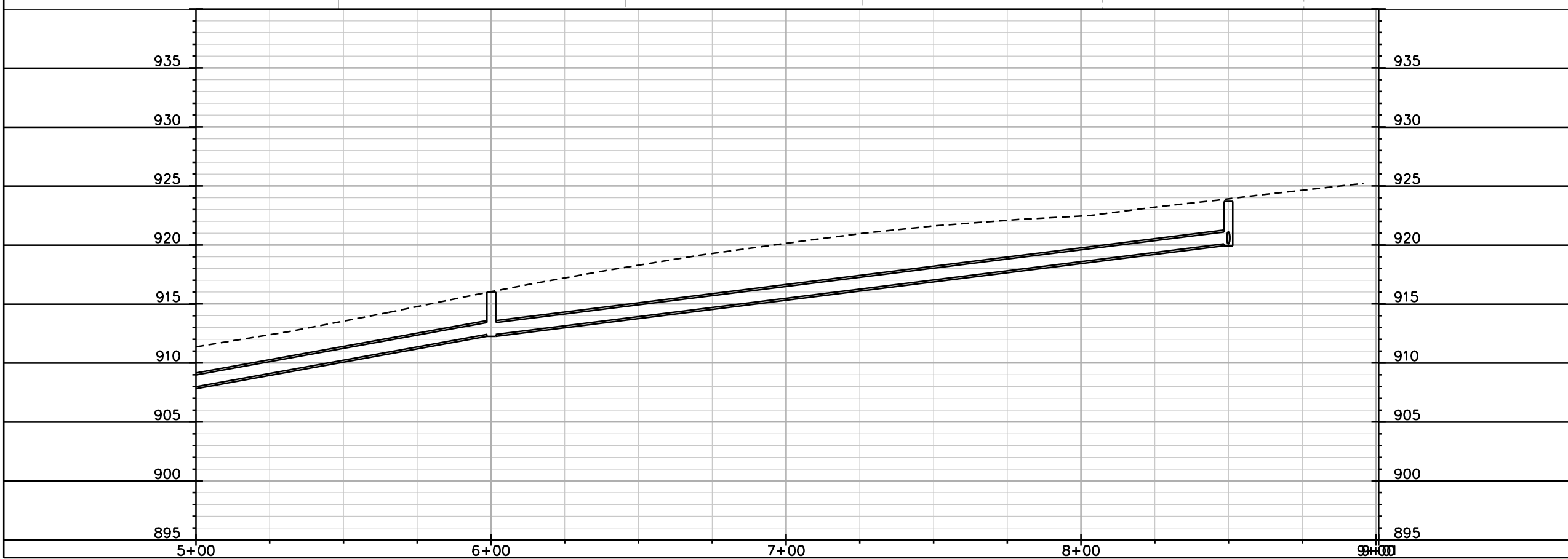
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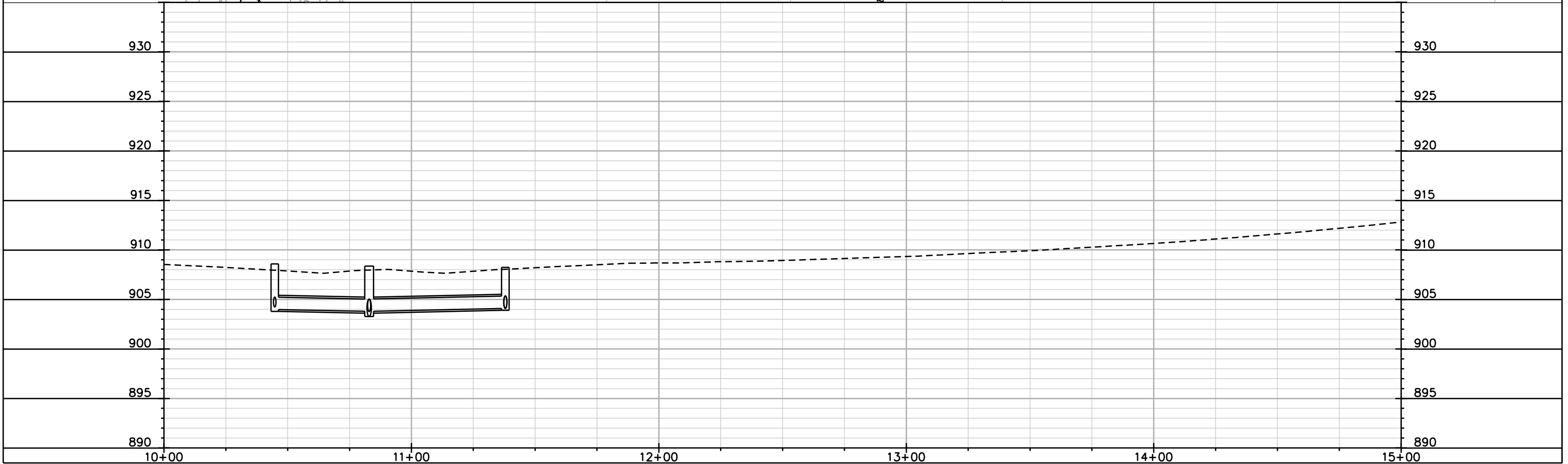
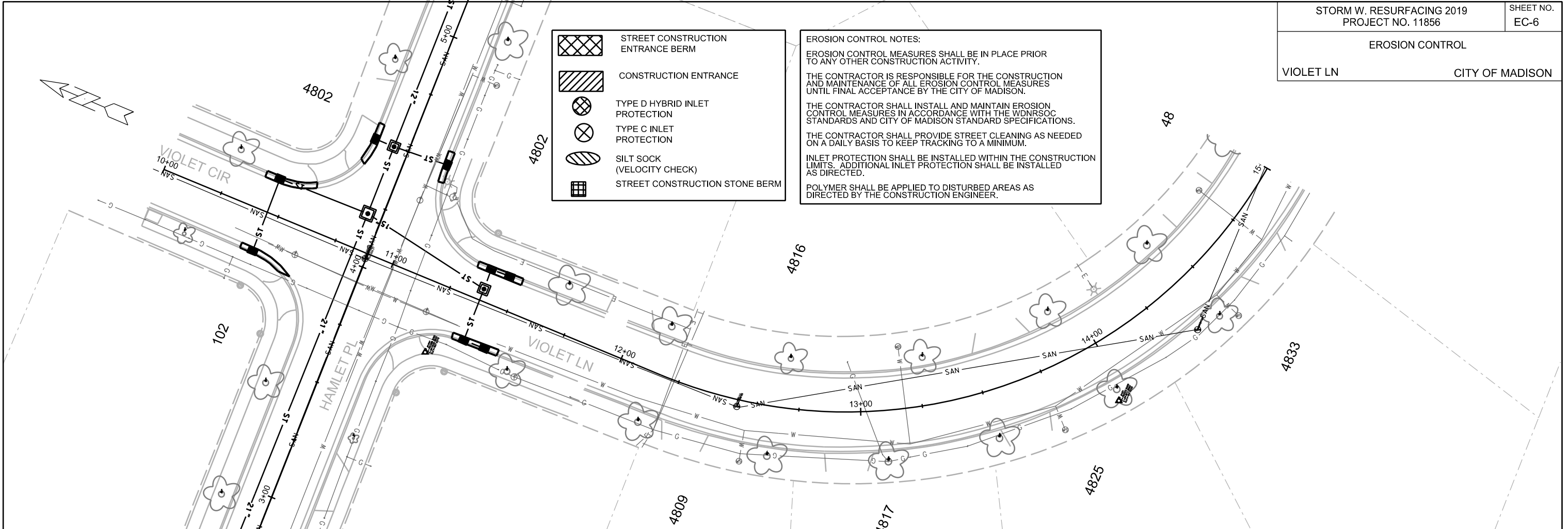
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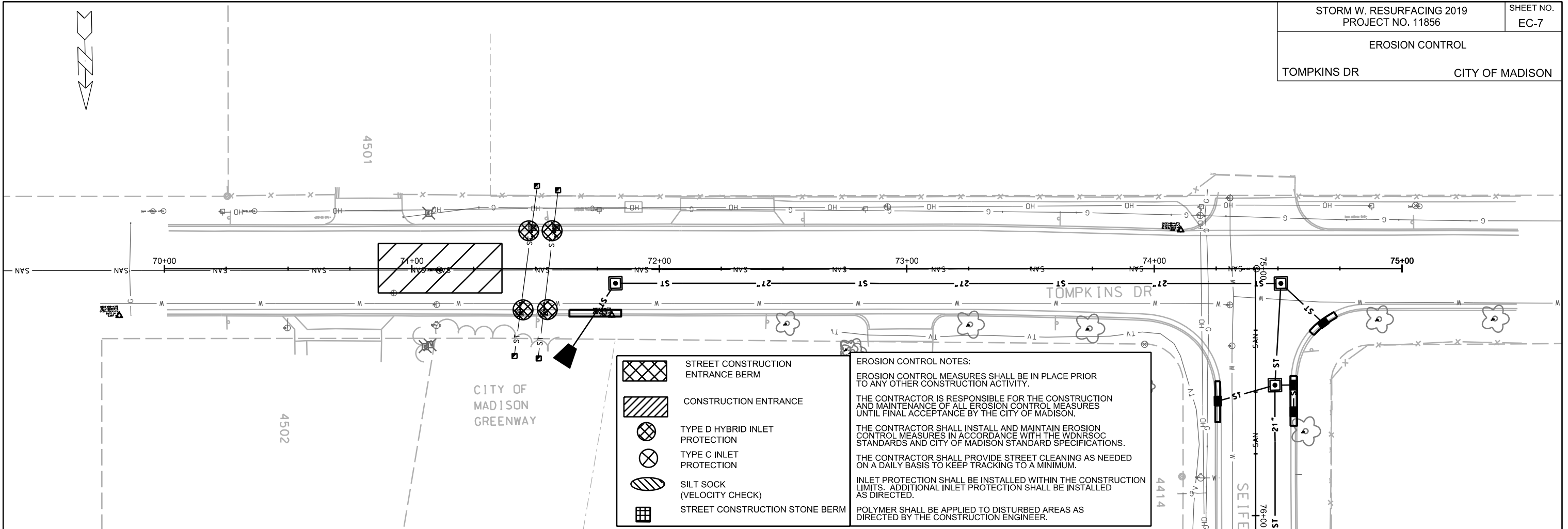


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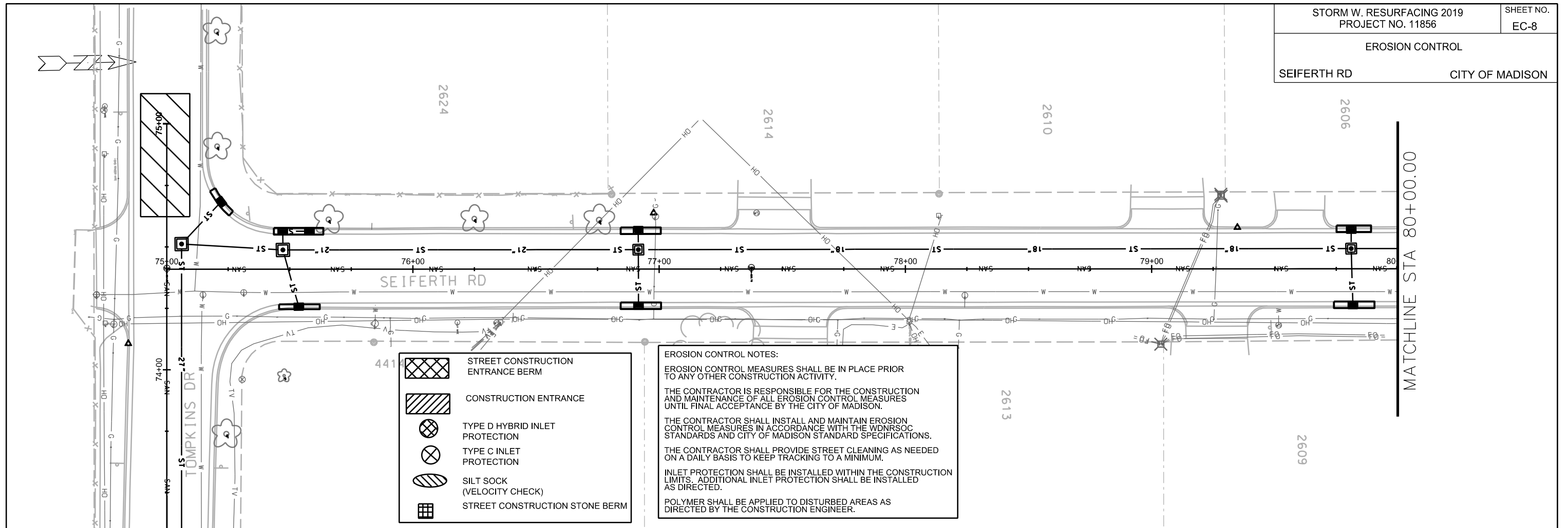


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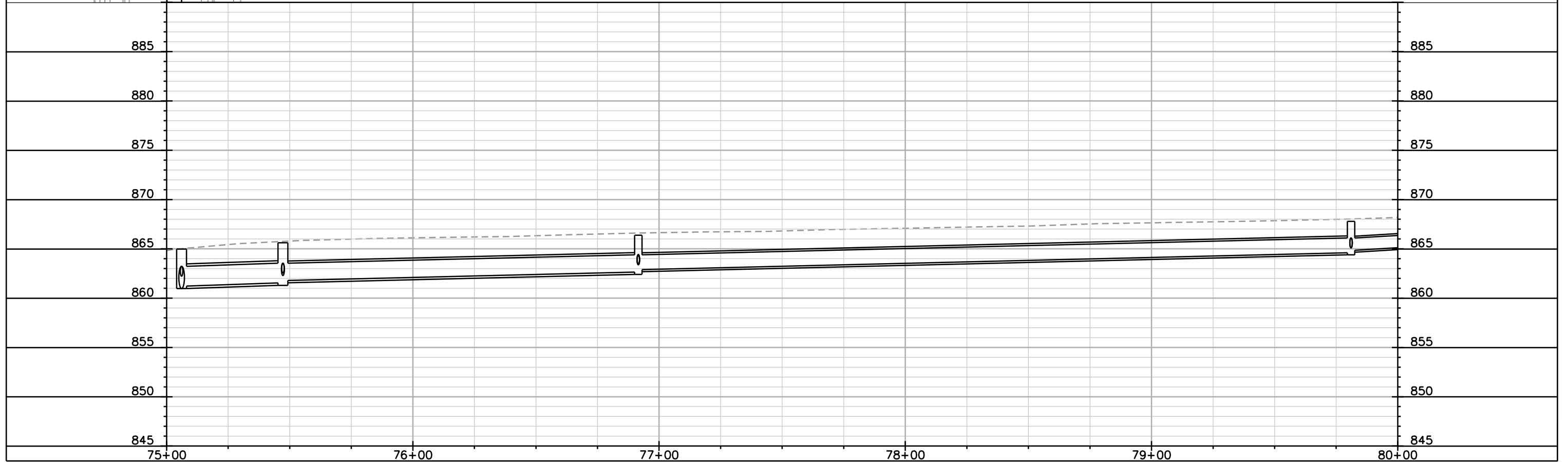
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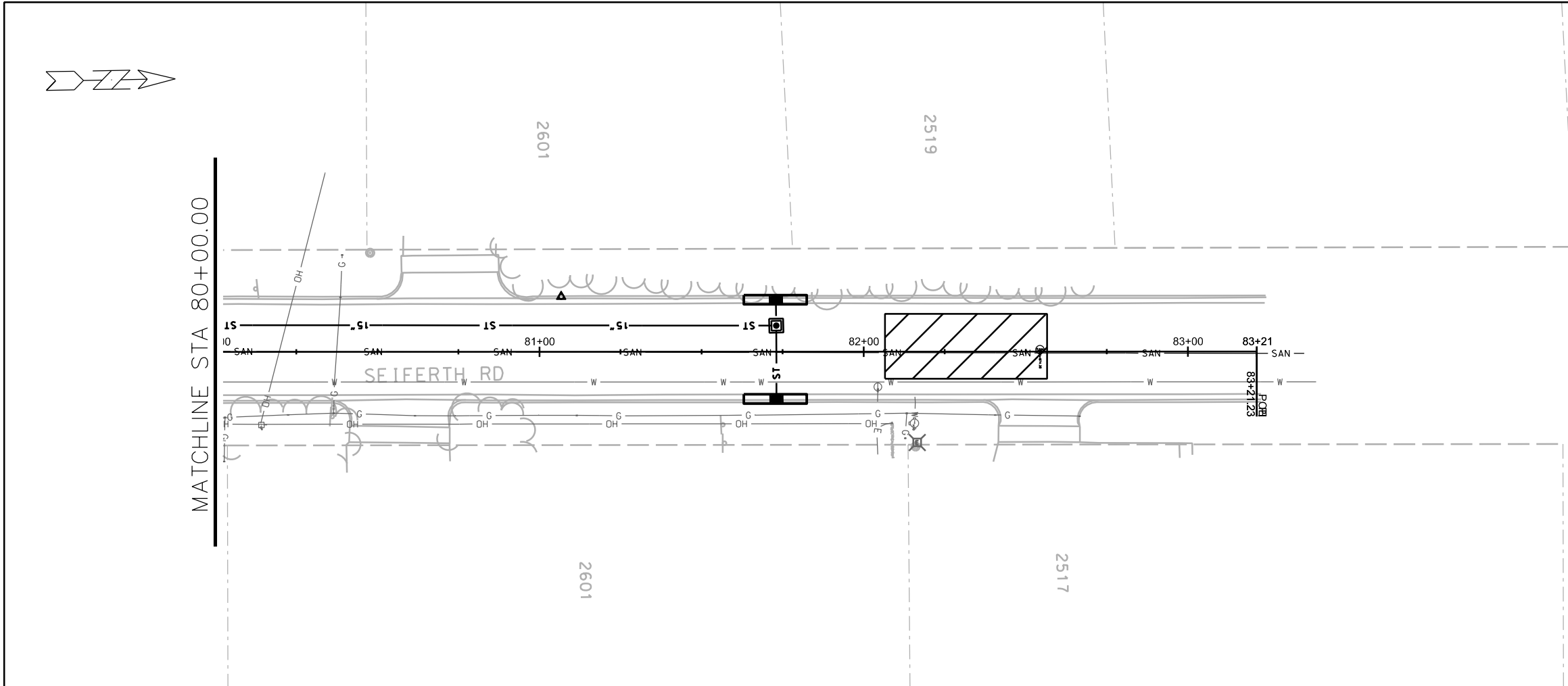
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL

SEIFERTH RD CITY OF MADISON

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-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

EROSION CONTROL NOTES:

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

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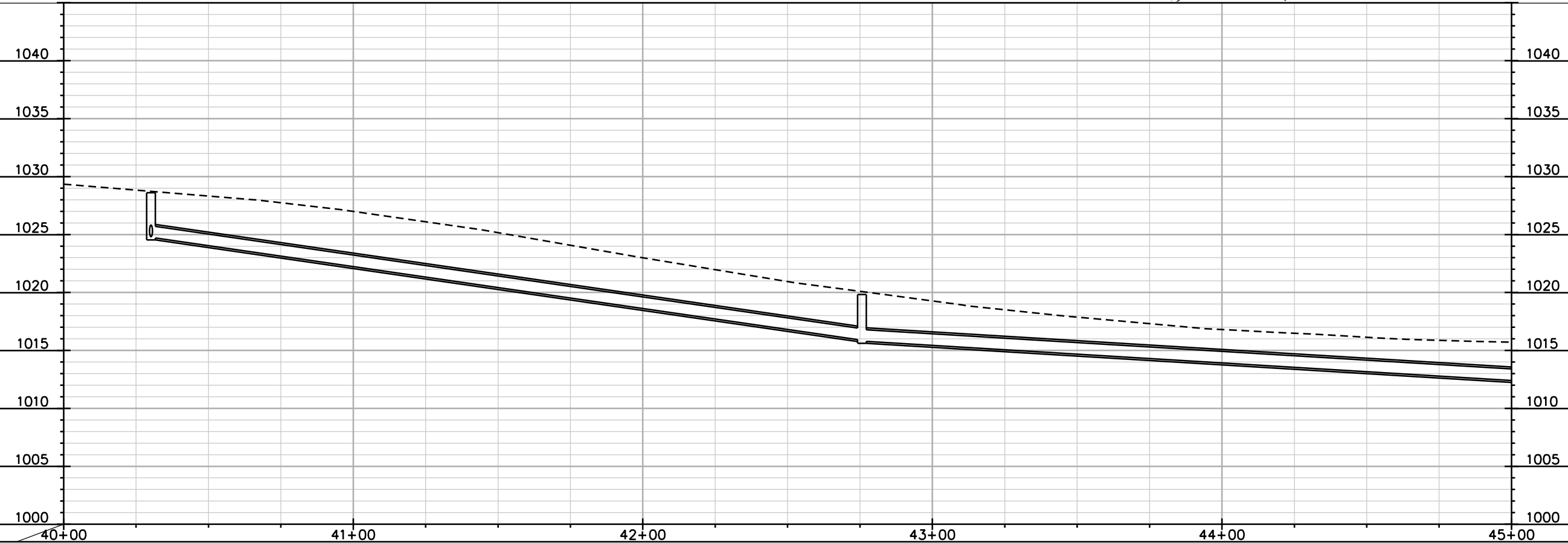
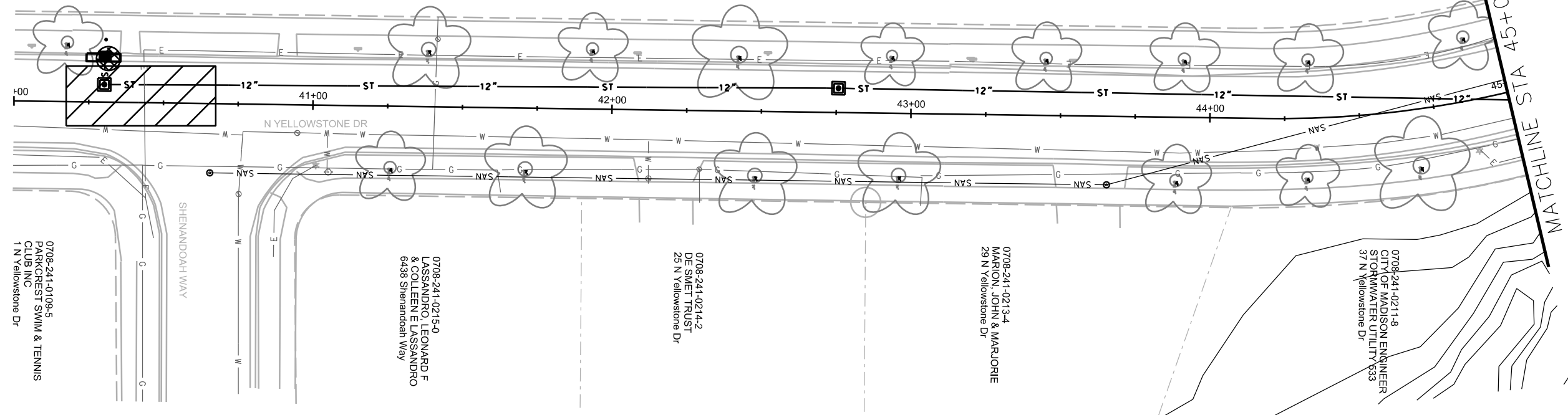
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POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.



0708-242-0901-3
MADISON METRO SCHOOL DIST
JOHN MUIR SCHOOL
6602 Inner Dr

0708-242-0901-3
MADISON METRO SCHOOL DIST
JOHN MUIR SCHOOL
6602 Inner Dr









PLOT SCALE:

PLOT NAME:

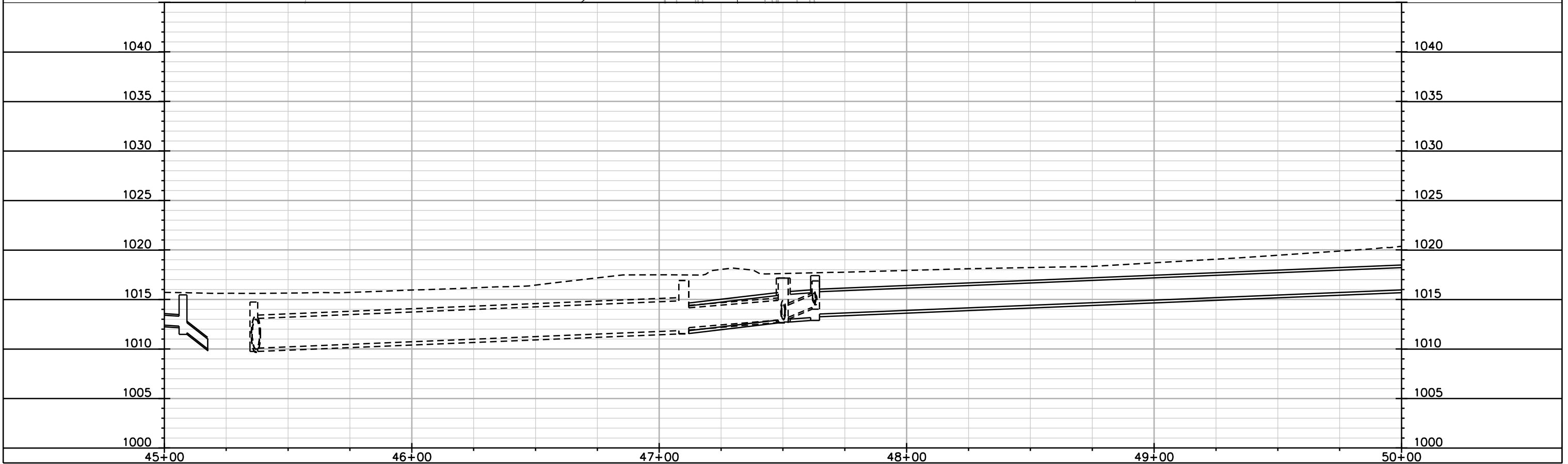
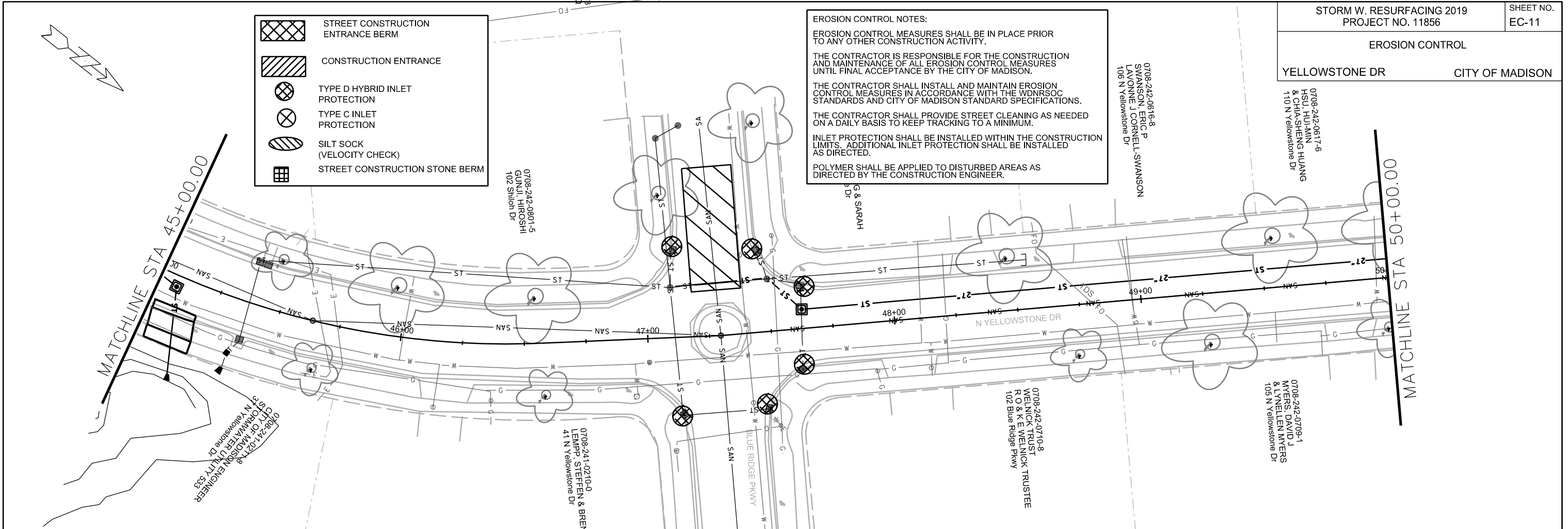
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL
YELLOWSTONE DR CITY OF MADISON

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
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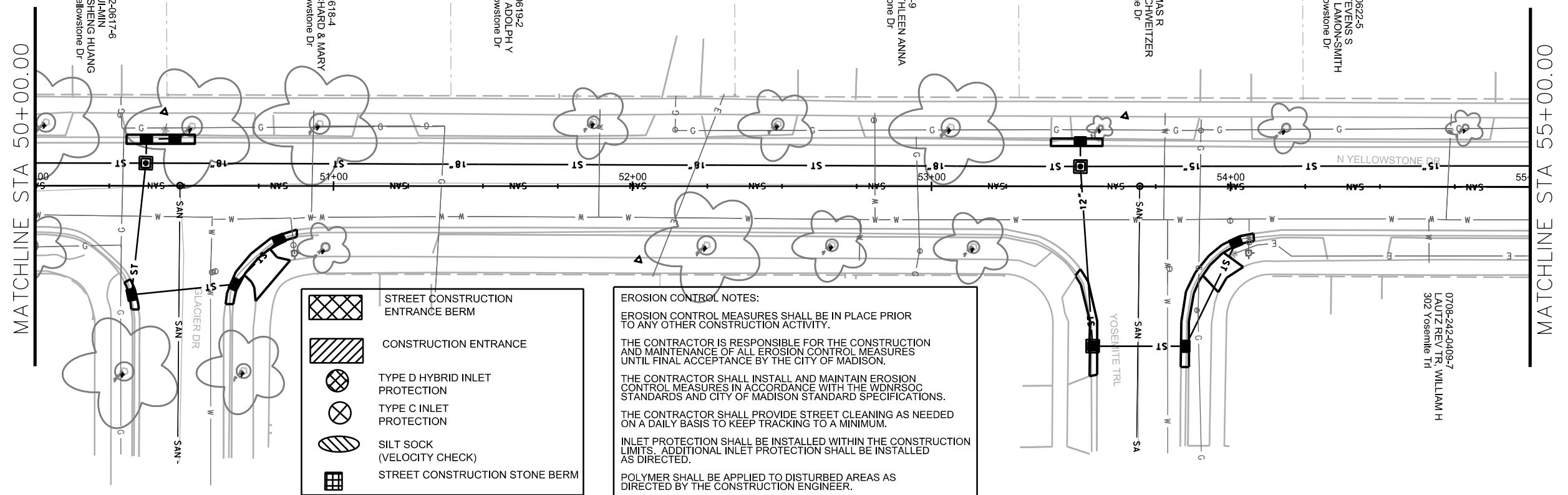








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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
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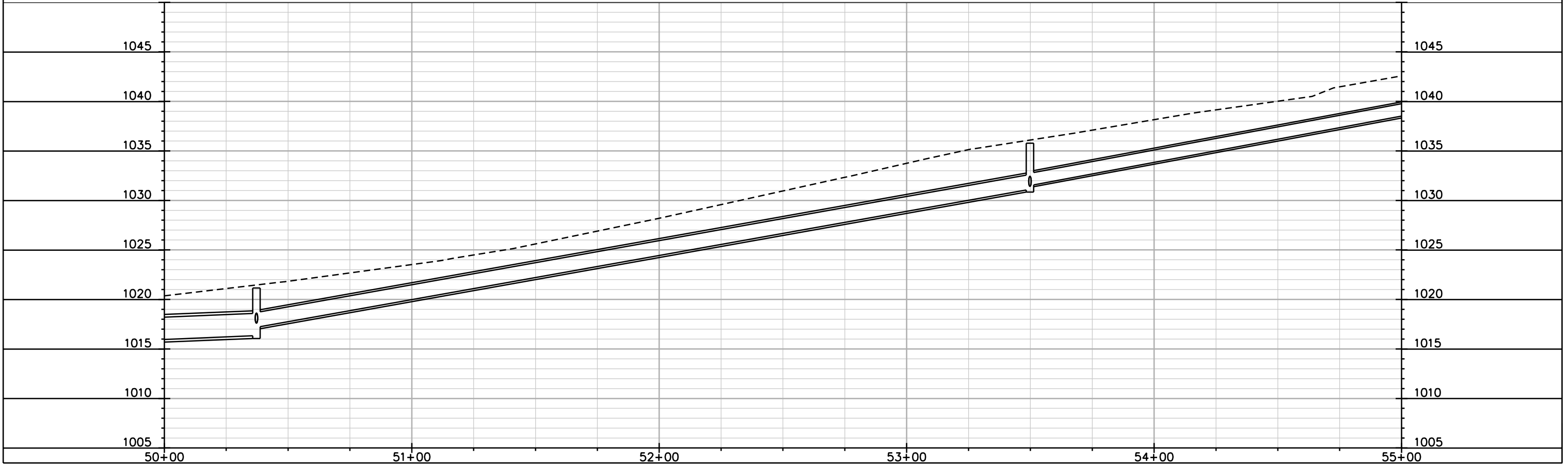
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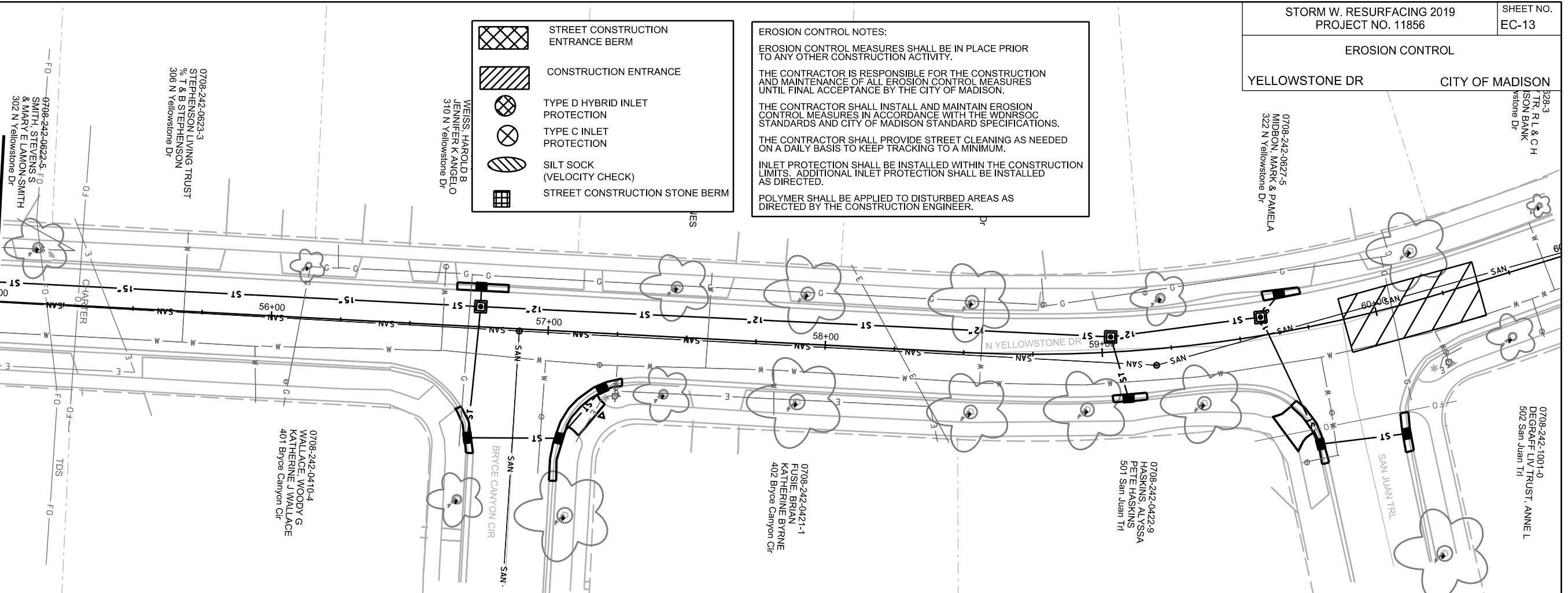
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL
YELLOWSTONE DR CITY OF MADISON

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MATCHLINE STA 55+00.00



0708-242-0623-3
STEPHENSON LIVING TRUST
% I & B STEPHENSON
306 N Yellowstone Dr

WESS, HAROLD B
JENNIFER K ANGELO
310 N Yellowstone Dr

0708-242-0410-4
WALLACE, WOODY G
KATHERINE J WALLACE
401 Bryce Canyon Cir

0708-242-0421-1
FUSIE, BRIAN
KATHERINE BYRNE
402 Bryce Canyon Cir

0708-242-0422-9
HASKINS, ALYSSA
PETE HASKINS
501 San Juan Trl

0708-242-1001-0
DEGRAFF LIV TRUST, ANNE L
502 San Juan Trl

0708-242-0627-5
MIDBON, MARK & PAMELA
322 N Yellowstone Dr

128-3
TR, R L & C H
ISON BANK
Yellowstone Dr

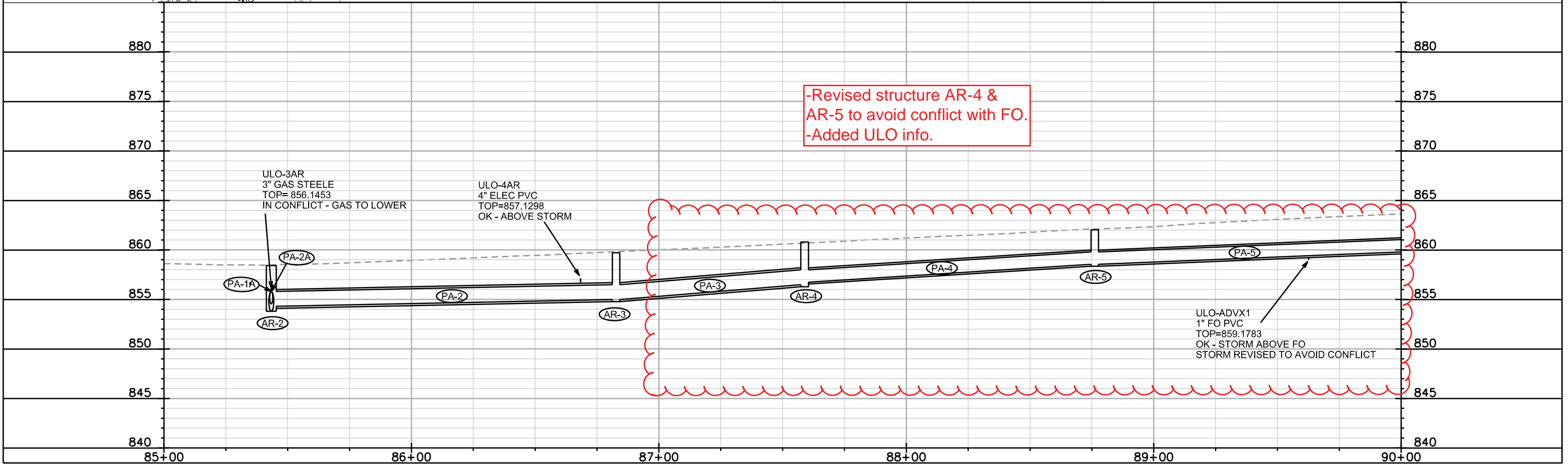
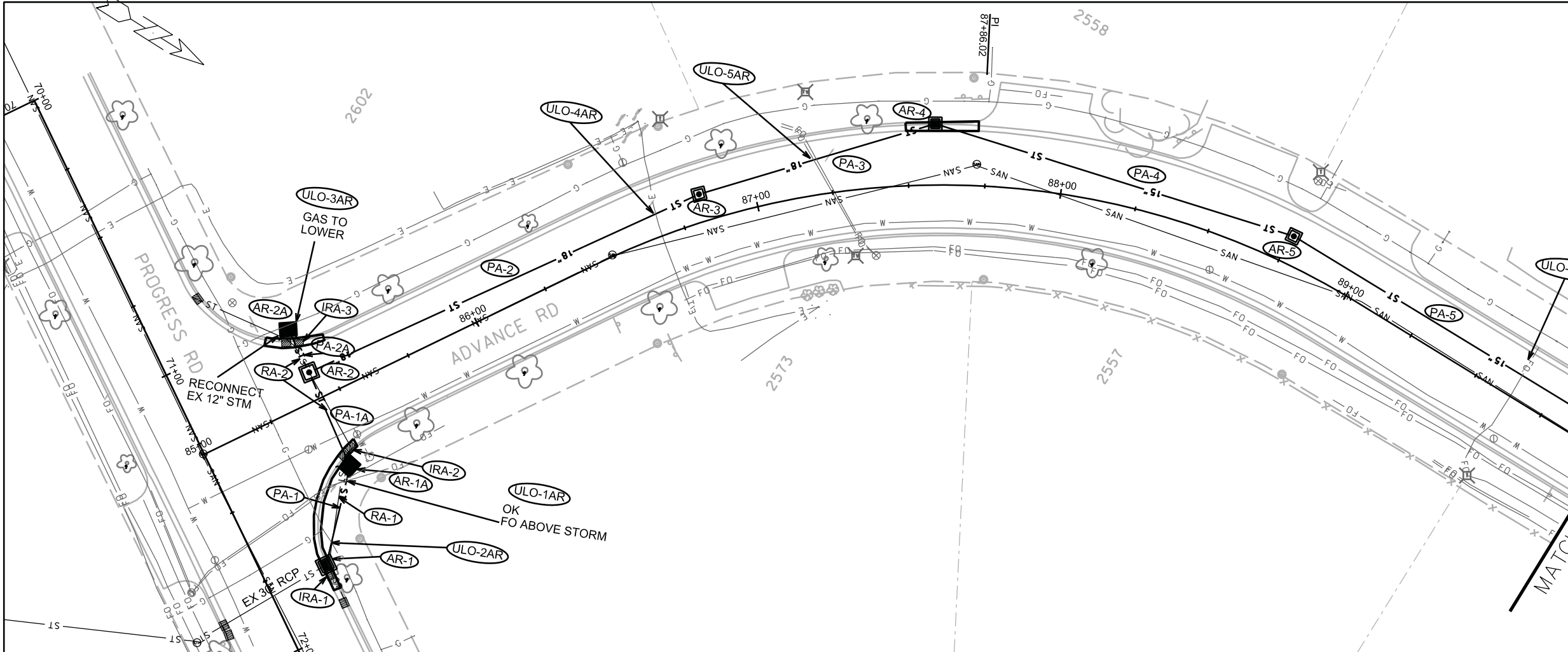
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REVISED 5/10/19 EEA



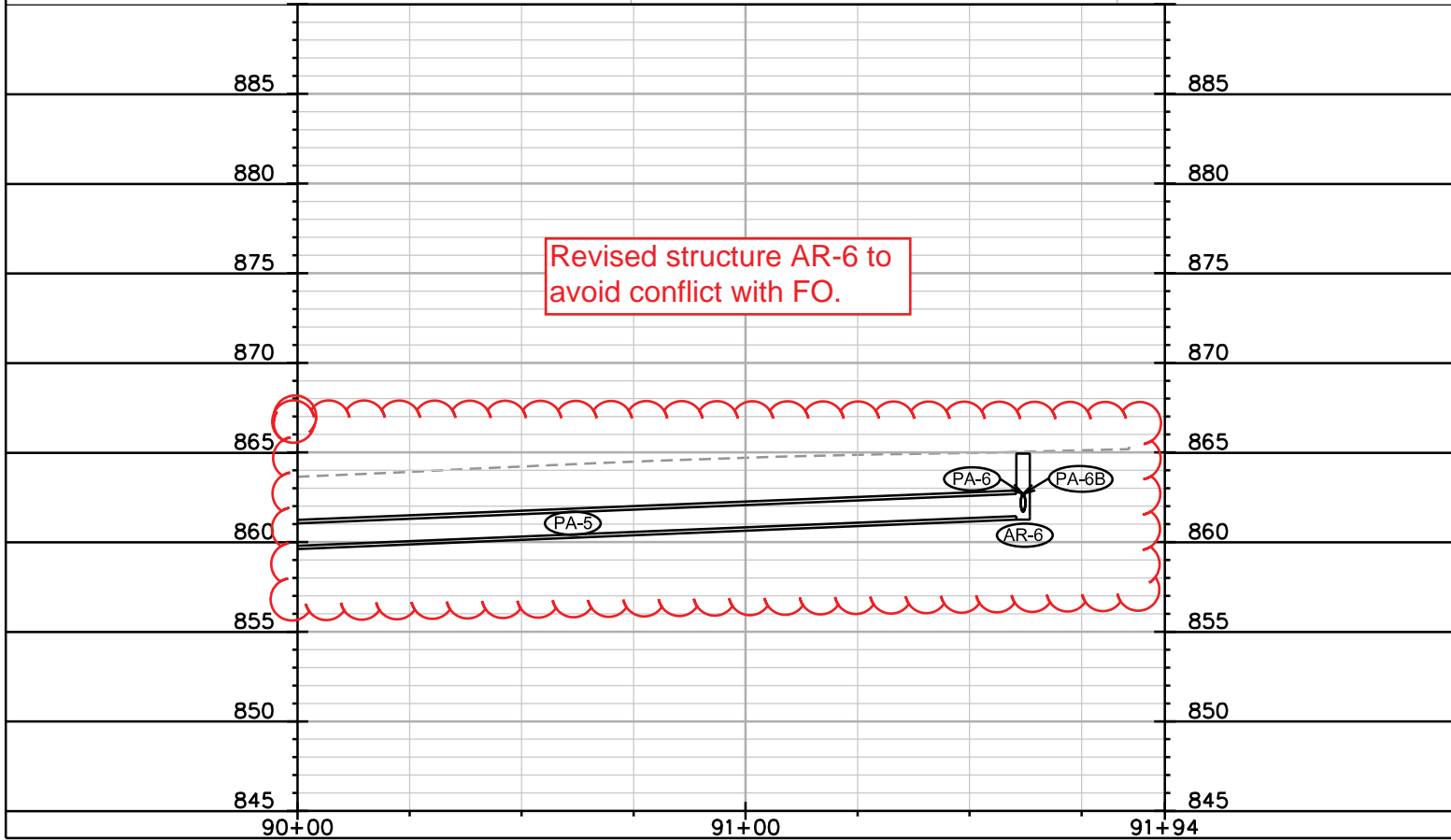
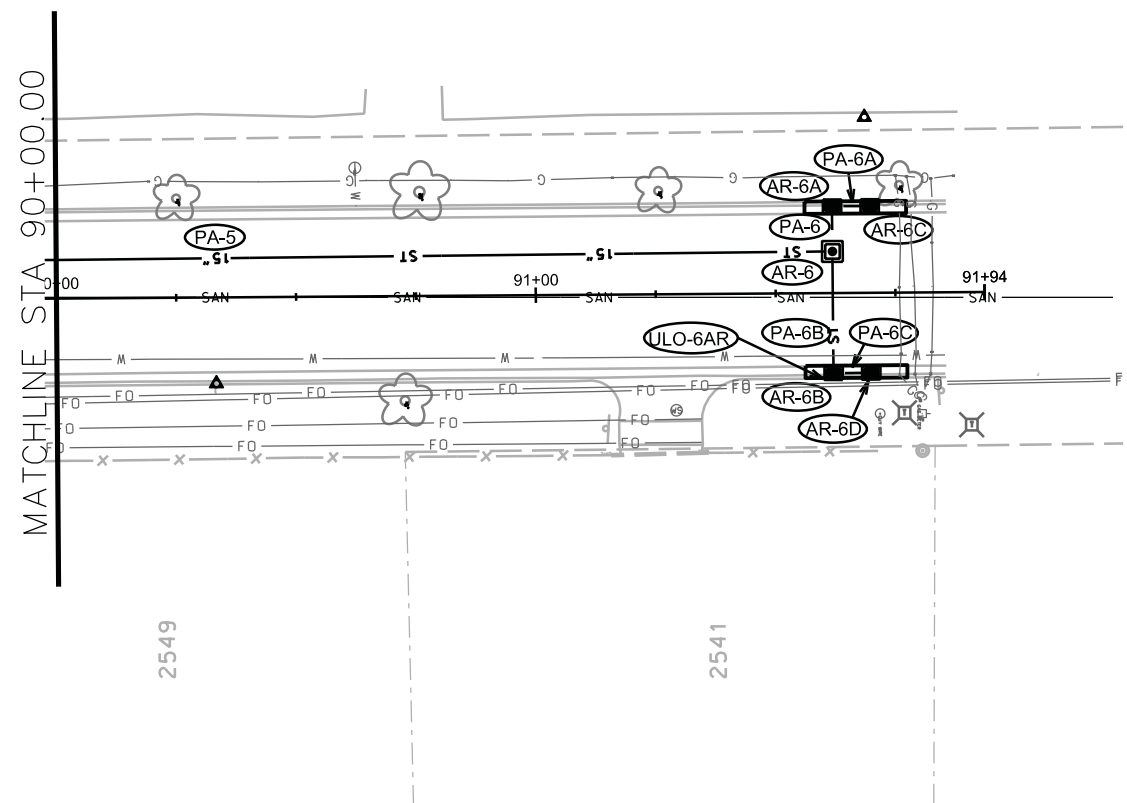
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 5/10/19 EEA



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 5/10/19 EEA

STORM WITH RESURFACING 2019 PROJECT NO. 11856	SHEET NO. AR-3
STORM SEWER SCHEDULE	
ADVANCE RD	CITY OF MADISON

PROPOSED STORM STRUCTURES

PROGRESS RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
AR-1	71+78.78	LT-20.32	4X4 SAS	858.00	853.51	4.49	FP; W/ R-3067-7004-VB; (1)

ADVANCE RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
AR-1A	85+41.98	RT-24.36	TERRACE INLET TYPE II	858.04	853.65	4.39	FP; PER SDD 5.7.12A
AR-2	85+43.36	LT-9.19	4X4 SAS	858.42	853.80	4.62	(2)
AR-2A	85+43.32	LT-24.90	TERRACE INLET TYPE II	858.39	854.61	3.78	FP; PER SDD 5.7.12A
AR-3	86+82.72	LT-9.05	3X3 SAS	859.71	854.99	4.72	W/ R-1550-0054
* AR-4	87+58.92	LT-20.08	3X3 SAS	860.79	856.49	4.30	W/ R-3067-7004-V
* AR-5	88+76.16	LT-9.19	3X3 SAS	862.04	858.54	3.50	W/ R-1550-0054
* AR-6	91+61.91	LT-8.68	3X3 SAS	864.94	861.44	3.50	W/ R-1550-0054
* AR-6A	91+61.91	LT-18.11	H INLET	865.18	861.73	3.45	W/ R-3067-7004-V
* AR-6B	91+61.91	RT-16.75	H INLET	865.16	861.81	3.35	W/ R-3067-7004-V
* AR-6C	91+69.76	LT-18.11	H INLET	865.22	861.76	3.46	W/ R-3067-7004-V
* AR-6D	91+69.84	RT-16.75	H INLET	865.20	861.84	3.36	W/ R-3067-7004-V

STORM STRUCTURE REMOVALS

PROGRESS RD

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
IRA-1	IN 6756-005	71+78.78	LT-20.32	H INLET	2X6

ADVANCE RD

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
IRA-2	IN 6756-003			H INLET	2X6
IRA-3	IN 6756-002			H INLET	2X6

SPECIFIC NOTES

- RECONNECT EX PIPES
- W/ R-1550 WITH R-2578 (OPEN GRATE)

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
PA-1	AR-1	AR-1A	853.51	853.65	33	28	0.50%	24"	TYPE I	-
PA-1A	AR-1A	AR-2	853.65	853.80	34	30	0.50%	24"	TYPE I	-
PA-2	AR-2	AR-3	854.30	854.99	141	137	0.50%	18"	TYPE I	-
PA-2A	AR-2	AR-2A	854.55	854.61	16	12	0.50%	15"	TYPE I	-
* PA-3	AR-3	AR-4	854.99	856.49	81	78	1.92%	18"	TYPE I	-
* PA-4	AR-4	AR-5	856.74	858.54	123	120	1.50%	15"	TYPE I	-
* PA-5	AR-5	AR-6	858.54	861.44	287	284	1.02%	15"	TYPE I	-
* PA-6	AR-6	AR-6A	861.69	861.73	9	7	0.57%	12"	TYPE I	-
* PA-6A	AR-6A	AR-6C	861.73	861.76	8	5	0.60%	12"	TYPE I	-
* PA-6B	AR-6	AR-6B	861.69	861.81	25	23	0.52%	12"	TYPE I	-
* PA-6C	AR-6B	AR-6D	861.81	861.84	8	5	0.60%	12"	TYPE I	-

STORM PIPE REMOVALS

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RA-1	IRA-1	IRA-2	42	21"	RCP	N	-
RA-2	IRA-2	IRA-3	40	15"	RCP	N	-

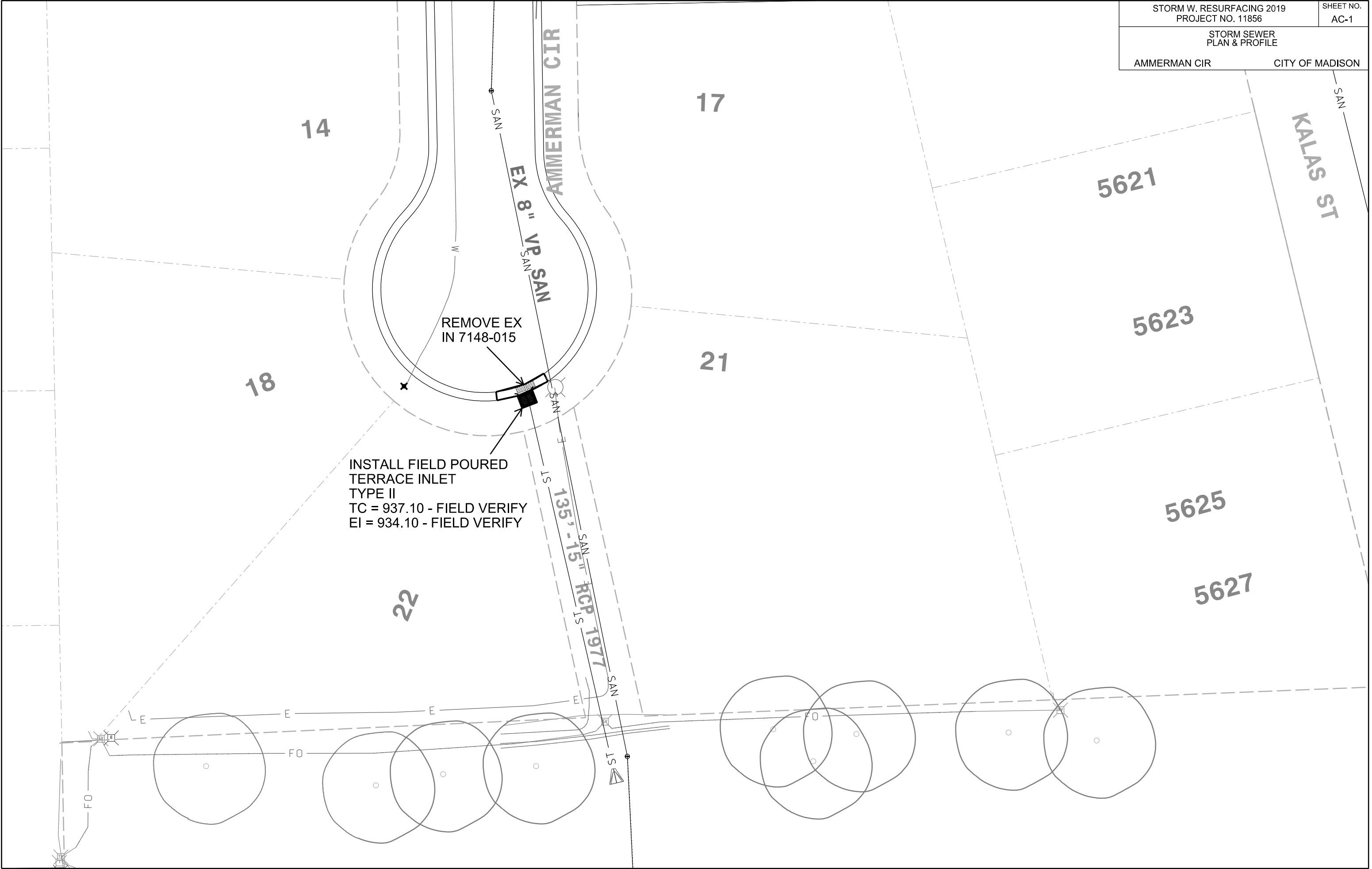
ULO SCHEDULE

ADVANCE RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1AR	85+38.42	RT-27.81	2" FO PVC	TOP= 856.7273 & TOP= 856.7172 - OK ABOVE STORM
* ULO-2AR	85+25.55	RT 43.82	GAS	
* ULO-3AR	85+47.74	LT-25.87	3" GAS STEEL	TOP= 856.1453 - IN CONFLICT - GAS TO LOWER
* ULO-4AR	86+67.84	LT-7.96	4" ELEC PVC	TOP= 857.1298 - OK ABOVE STORM
* ULO-5AR	87+20.32	LT-11.72	FO	
* ULO-6AR	91+59.49	RT 17.60	FO	
* ULO-ADVX1	89+62.60	LT-11.30	1" FO PVC	TOP= 859.1783 - OK STORM REVISED TO GO OVER FO

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; 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

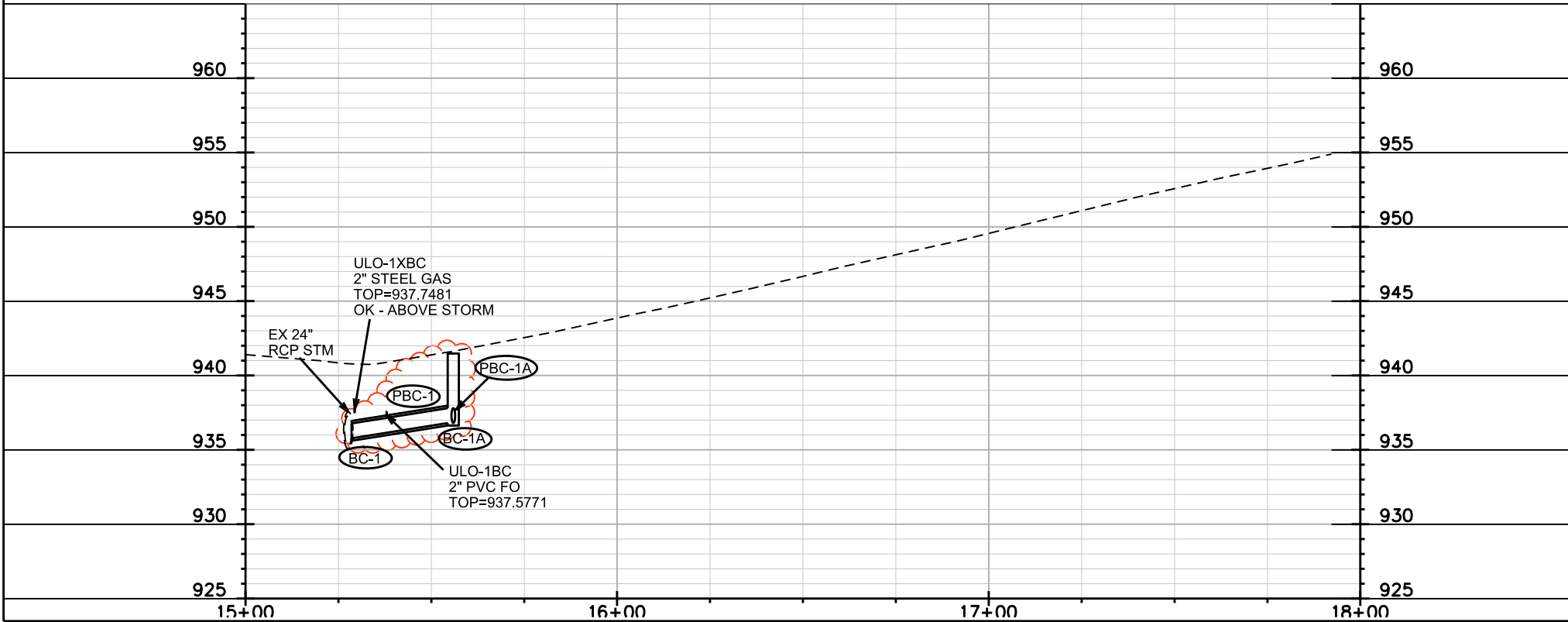
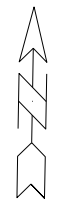
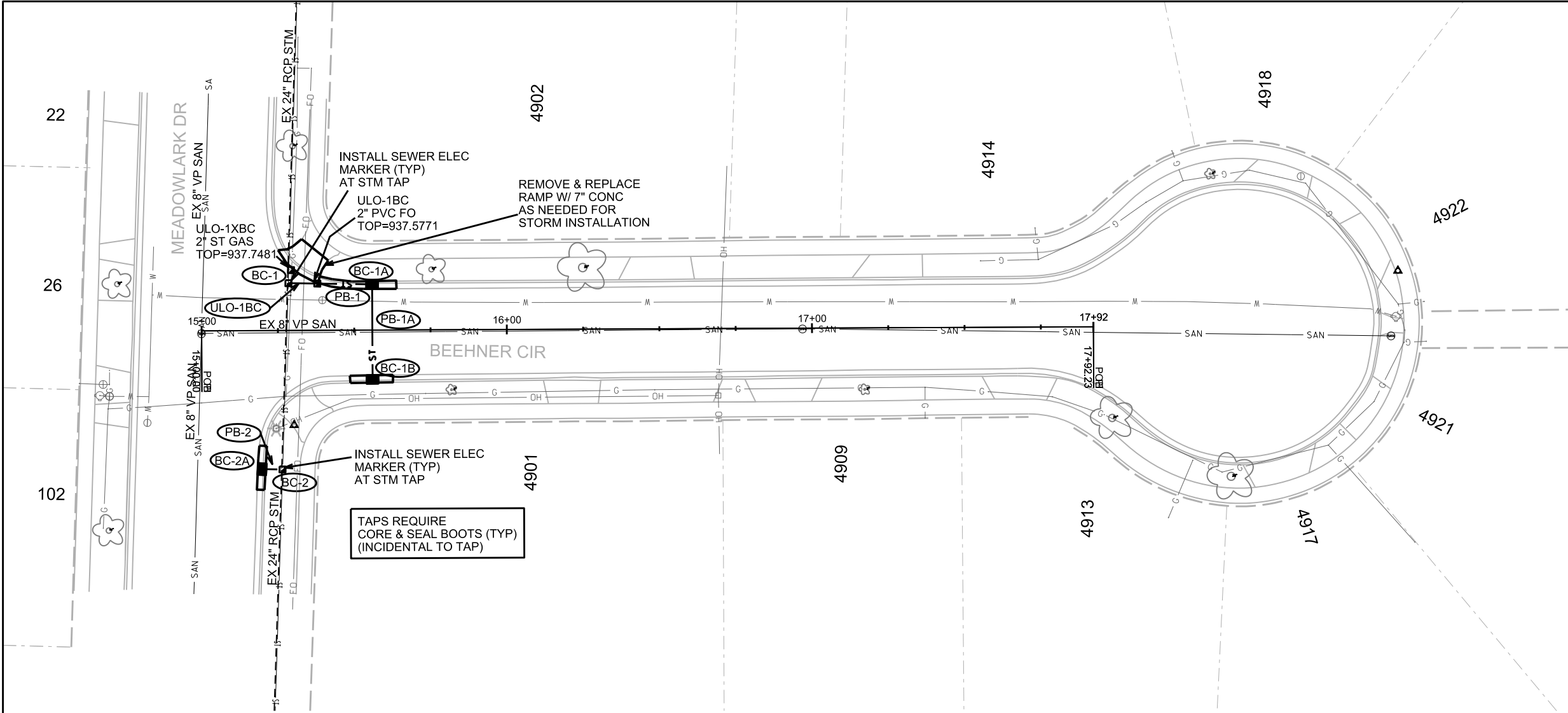


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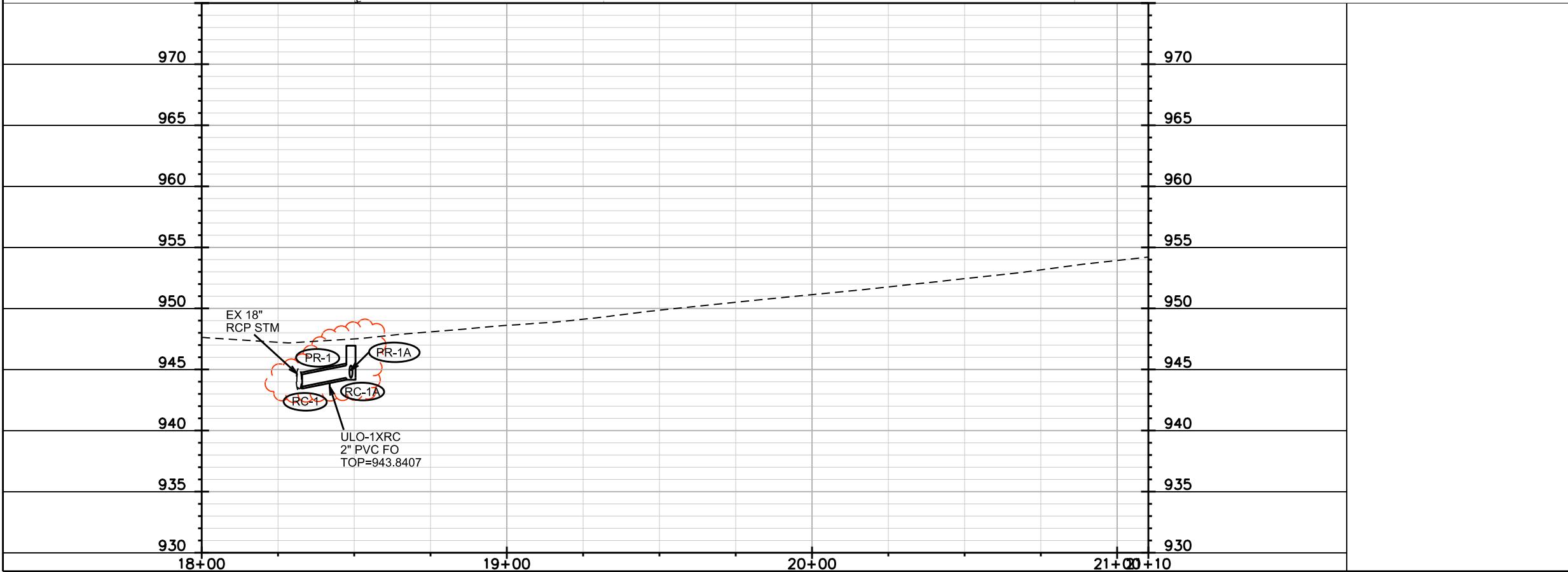
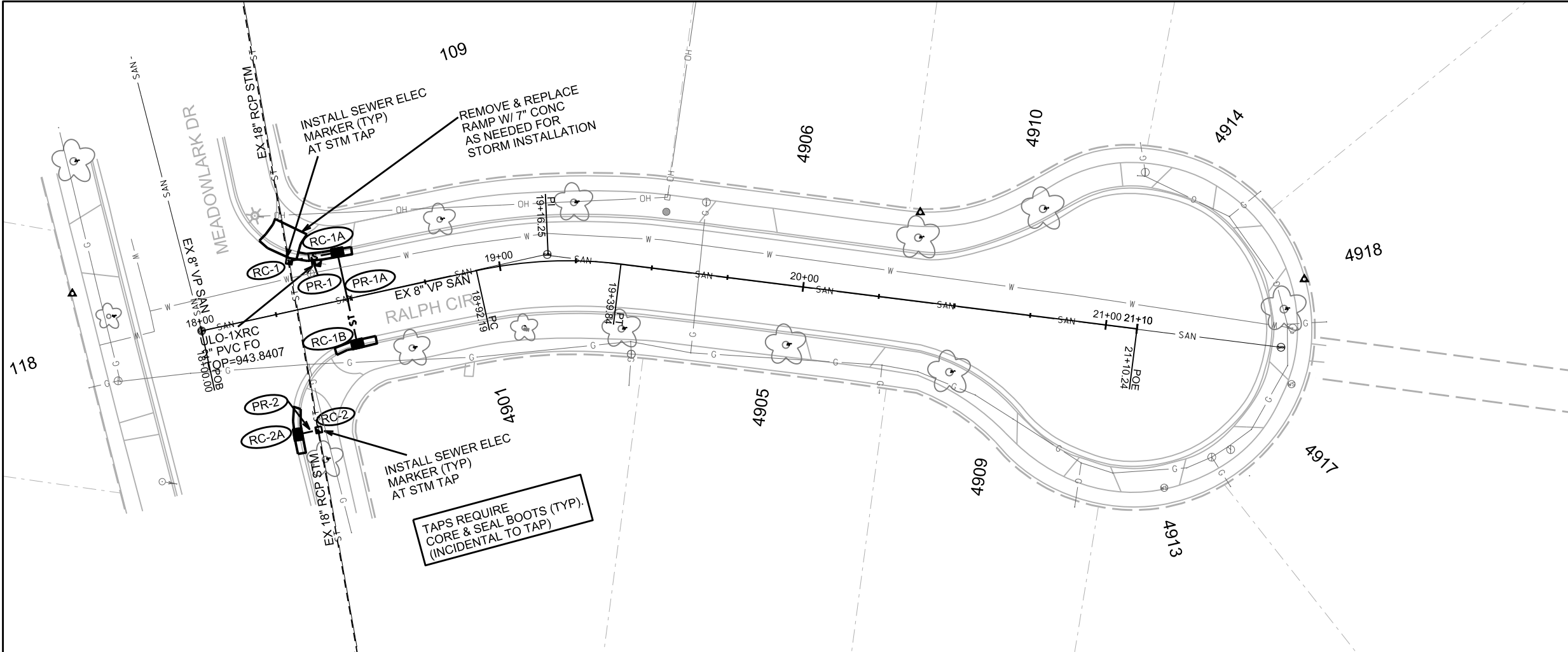


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 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

*REVISED 6/17/19 KDF

STORM WITH RESURFACING 2019 PROJECT NO. 11856	SHEET NO. BR-3
STORM SEWER SCHEDULE	
BEEHNER CIR & RALPH CIR	CITY OF MADISON

PROPOSED STORM STRUCTURES

BEEHNER CIR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
BC-1	15+28.53	LT-15.50	STORM TAP	-	935.58	-	(2); (3)
* BC-1A	15+55.93	LT-15.00	H INLET	941.48	936.81	4.67	W/ R-3067-7004-V
BC-1B	15+55.96	RT-16.00	H INLET	942.03	938.73	3.30	W/ R-3067-7004-V
BC-2	15+26.30	RT-45.51	STORM TAP	-	936.46	-	(2); (3)
BC-2A	15+19.62	RT-45.38	H INLET	941.62	936.76	4.86	W/ R-3067-7004-V

RALPH CIR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
RC-1	18+33.10	LT-15.74	STORM TAP	-	943.60	-	(2); (3)
* RC-1A	18+48.92	LT-15.50	H INLET	946.95	944.32	2.63	FP, W/ R-3067-7004-V
RC-1B	18+48.94	RT-15.07	H INLET	948.58	945.58	3.00	W/ R-3067-7004-V
RC-2	18+30.55	RT-39.90	STORM TAP	-	945.42	-	(2); (3)
RC-2A	18+23.59	RT-39.90	H INLET	948.77	945.77	3.00	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
* PB-1	BC-1	BC-1A	935.78	936.81	27	26	3.96%	12"	TYPE I	(1)
* PB-1A	BC-1A	BC-1B	936.81	938.73	31	29	6.62%	12"	TYPE I	-
PB-2	BC-2	BC-2A	936.46	936.76	7	6	5.00%	12"	TYPE I	(1)
PR-1	RC-1	RC-1A	943.60	944.32	16	14	5.14%	12"	TYPE I	(1)
* PR-1A	RC-1A	RC-1B	944.32	945.58	31	29	4.34%	12"	TYPE I	-
PR-2	RC-2	RC-2A	945.42	945.77	7	6	5.83%	12"	TYPE I	(1)
PR-1	RC-1	RC-1A	943.60	943.95						
PR-1A	RC-1A	RC-1B	943.95	945.58						
PR-2	RC-2	RC-2A	945.42	945.77						

ULO SCHEDULE

BEEHNER CIR

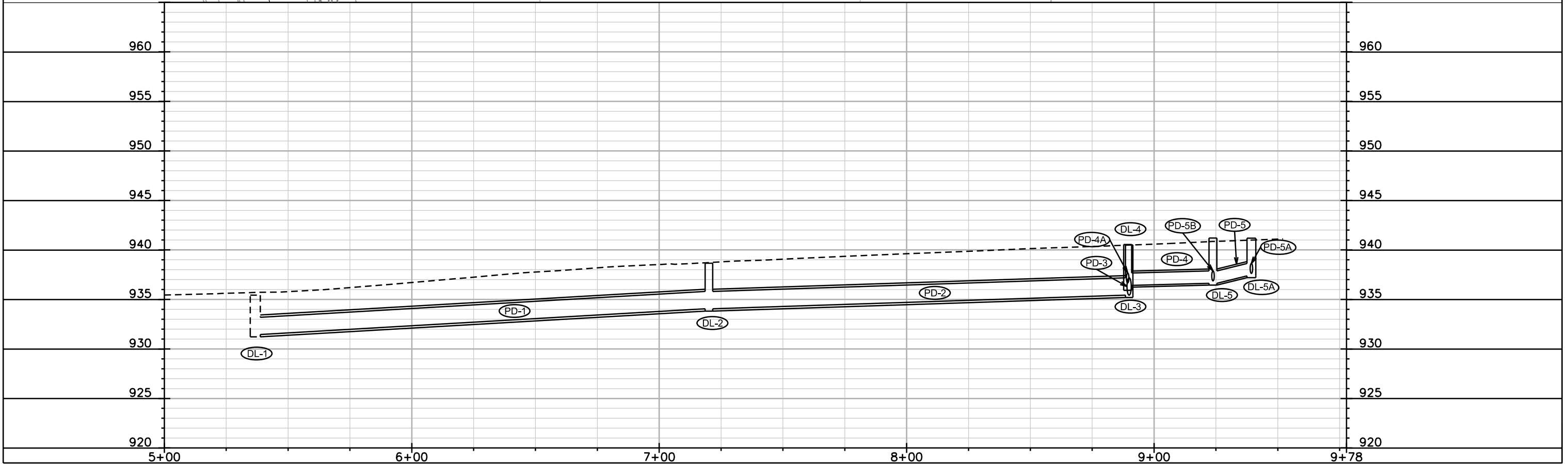
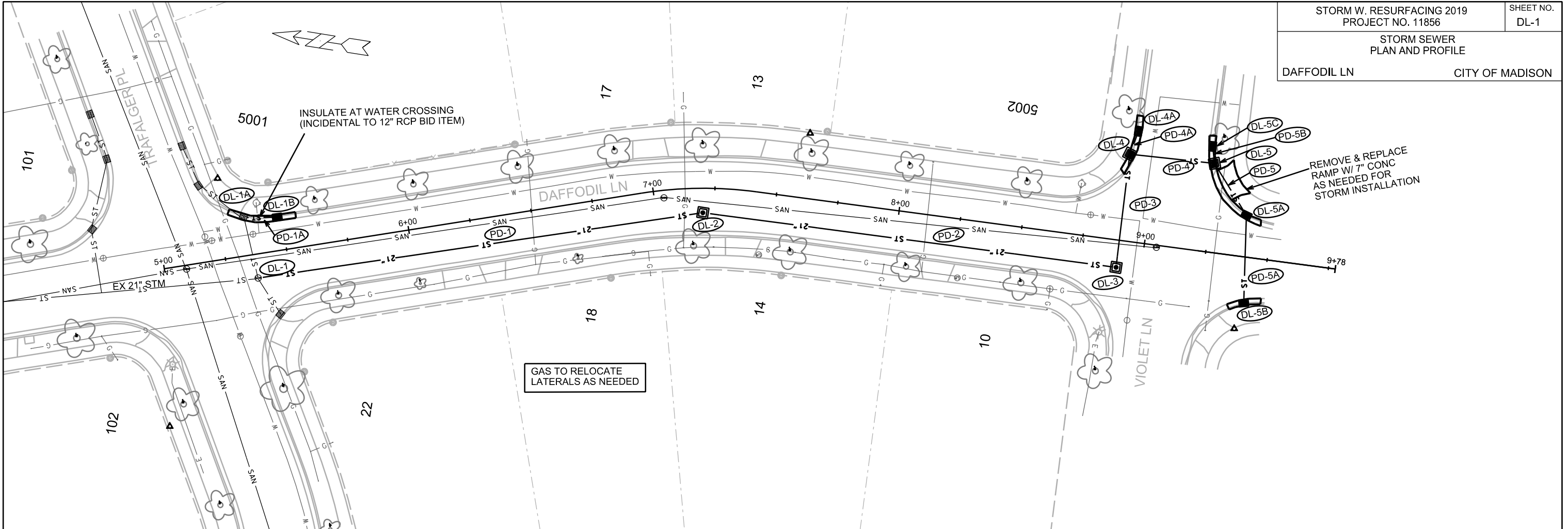
STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1BC	15+31.83	LT-15.30	FO & GAS	PAID UNDER ONE ULO, UTILITIES WITHIN 5FT OF EACHOTHER

SPECIFIC NOTES

- (1) MATCH SPRINGLINES
- (2) INSTALL SEWER ELECTRONIC MARKER (TYP) AT STORM TAP
- (3) TAPS REQUIRE CORE & SEAL BOOTS (TYP) ; CORE & SEAL BOOTS INCIDENTAL TO TAP

STANDARD NOTES:

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PLOT SCALE: _____

PLOT NAME: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

STORM WITH RESURFACING 2019		SHEET NO.
PROJECT NO. 11856		DL-2
STORM SEWER SCHEDULE		
DAFFODIL LN	CITY OF MADISON	

PROPOSED STORM STRUCTURES

DAFFODIL LN

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
DL-1	6+36.74	RT-9.65	STORM TAP	-	931.45	-	TAP EX AS 6839-005
DL-1A	6+34.68	LT-15.38	STORM TAP	-	932.75	-	TAP EX IN 6839-012
DL-1B	6+48.28	LT-13.43	H INLET	936.03	933.03		W/ R-3067-7004-V
DL-2	8+20.07	RT-9.90	3X3 SAS	938.65	934.05	4.60	W/ R-1550-0054
DL-3	9+89.91	RT-11.00	3X3 SAS	940.51	935.43	5.08	W/ R-1550-0054
DL-4	8+89.34	LT-35.08	3X3 SAS	940.55	935.92	4.63	W/ R-3067-7004-V
DL-4A	8+91.57	LT-44.75	H INLET	940.72	936.92	3.80	W/ R-3067-7004-V
DL-5	9+23.79	LT-35.91	3X3 SAS	941.20	936.63	4.57	W/ R-3067-7004-V
DL-5A	9+39.33	LT-16.83	H INLET	941.18	937.38	3.80	W/ R-3067-7004-V
DL-5B	9+42.93	RT-18.53	H INLET	940.94	937.83	3.11	W/ R-3067-7004-V
DL-5C	9+22.16	LT-42.62	H INLET	941.43	937.08	4.35	W/ R-3067-7004-V

PROPOSED STORM PIPES

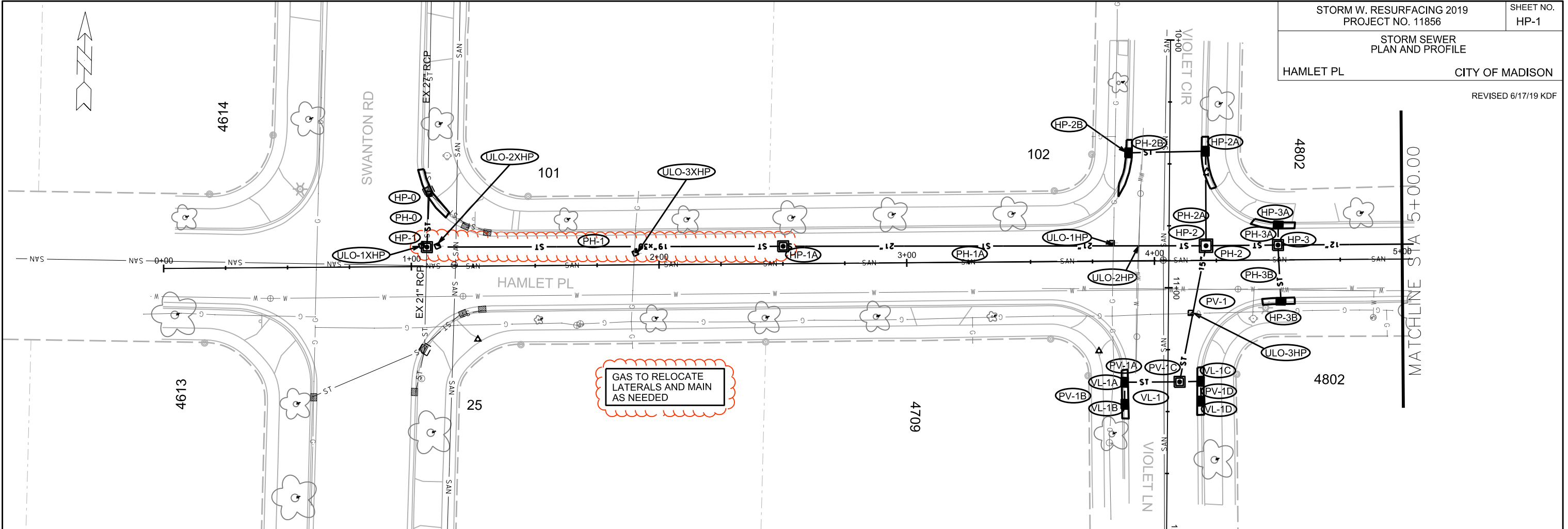
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PD-1	DL-1	DL-2	931.45	934.05	182	178	1.46%	21"	TYPE I	-
PD-1A	DL-1A	DL-1B	932.75	933.03	14	11	2.55%	12"	TYPE I	(1)
PD-2	DL-2	DL-3	934.05	935.43	168	165	0.84%	21"	TYPE I	-
PD-3	DL-3	DL-4	935.43	935.92	46	43	1.14%	21"	TYPE I	-
PD-4	DL-4	DL-5	936.42	936.63	34	31	0.68%	15"	TYPE I	-
PD-4A	DL-4	DL-4A	936.67	936.92	10	7	3.57%	12"	TYPE I	-
PD-5	DL-5	DL-5A	936.63	937.38	25	21	3.57%	15"	TYPE I	-
PD-5A	DL-5A	DL-5B	937.63	937.83	36	33	0.61%	12"	TYPE I	-
PD-5B	DL-5	DL-5C	936.88	937.08	7	4	5.00%	12"	TYPE I	-

SPECIFIC NOTES

(1) INSULATE AT WATER CROSSING, (INCIDENTAL TO 12" RCP BID ITEM)

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; 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.



PLOT SCALE: _____

PLOT NAME: _____

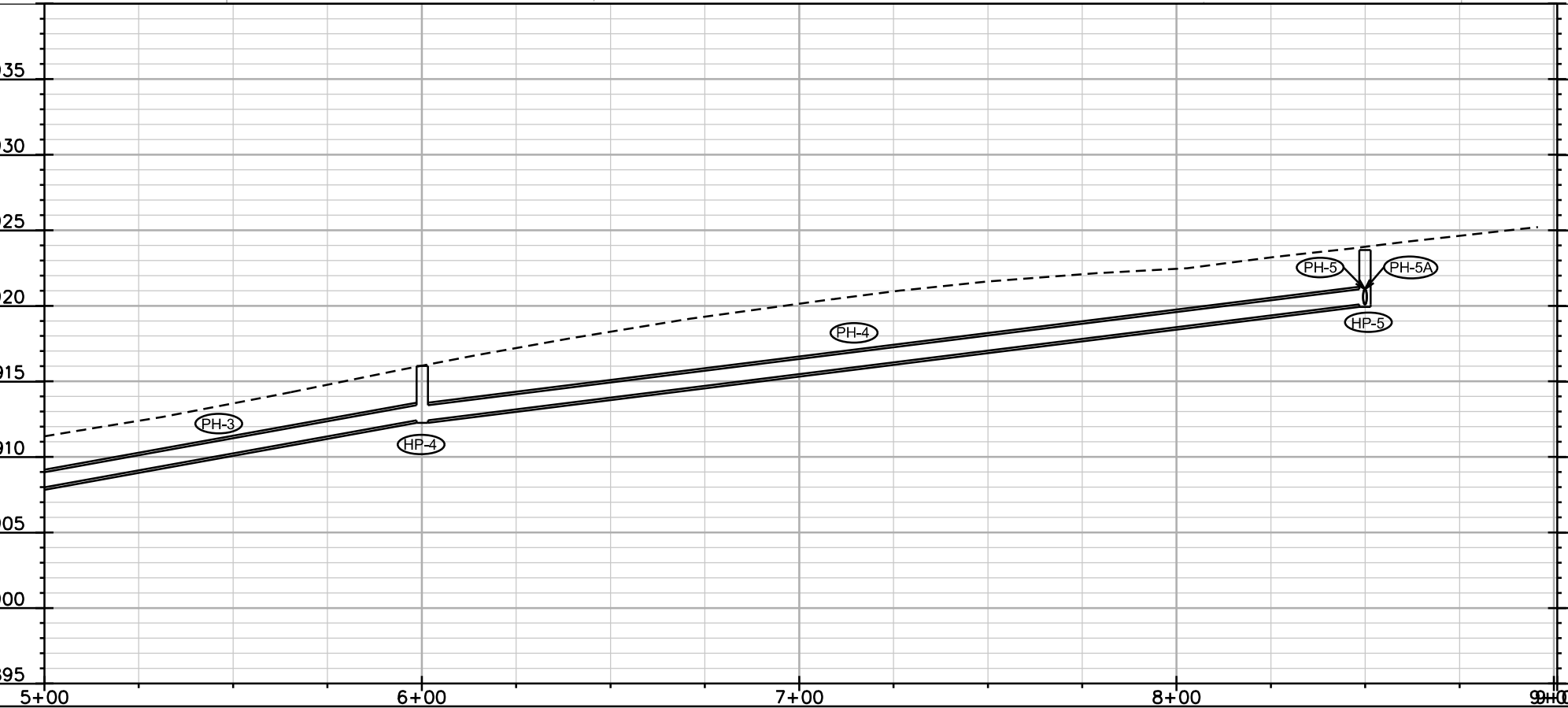
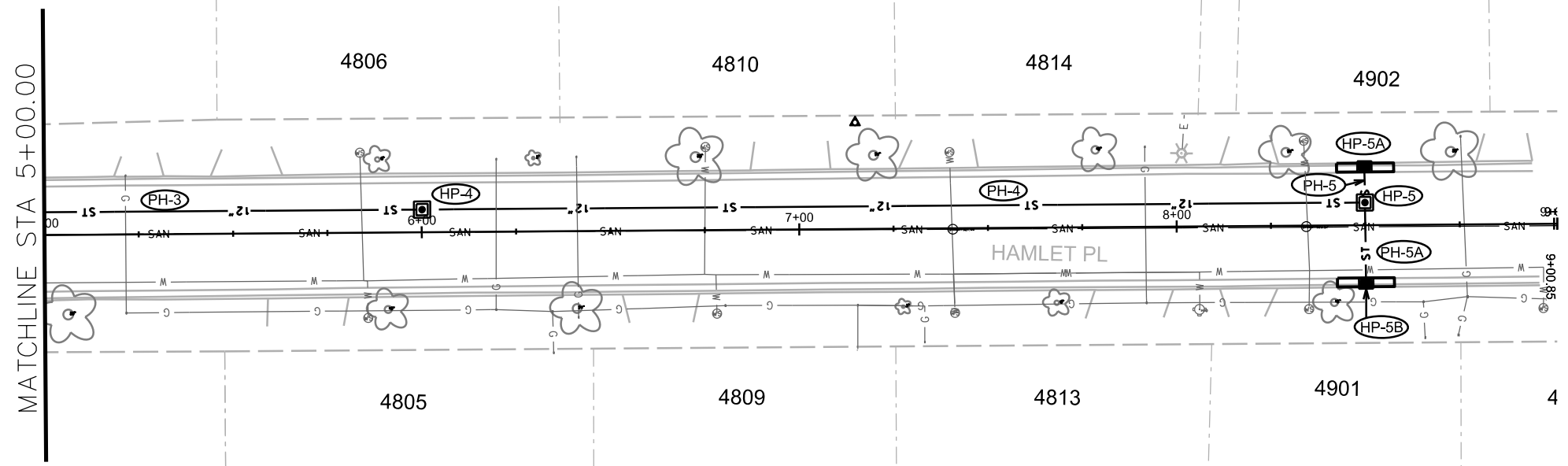
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE

HAMLET PL

CITY OF MADISON

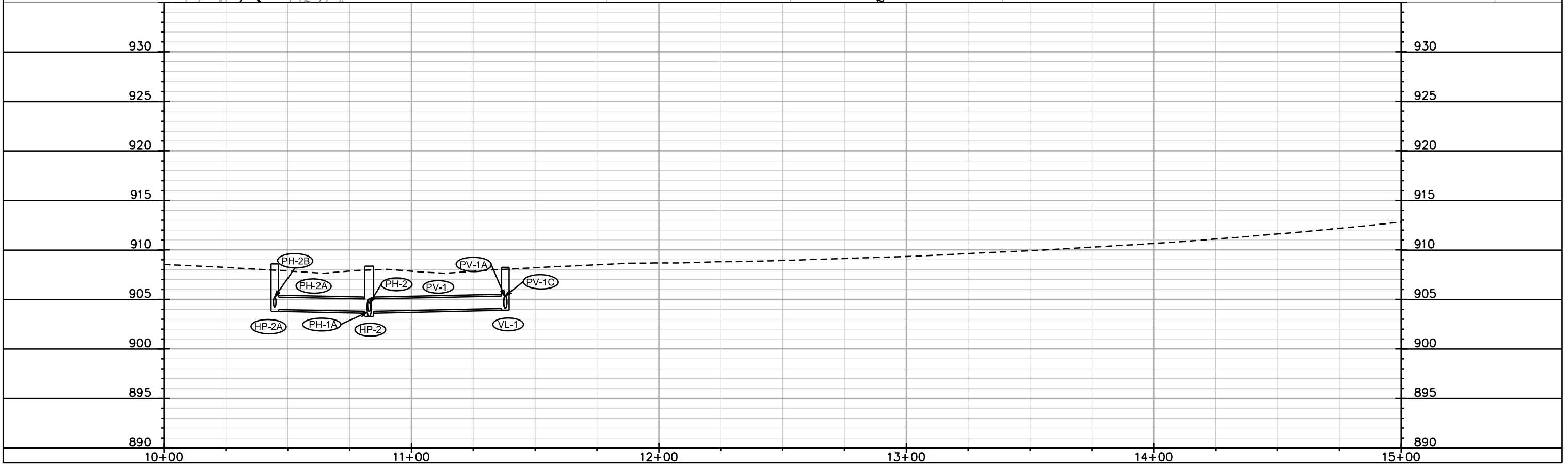
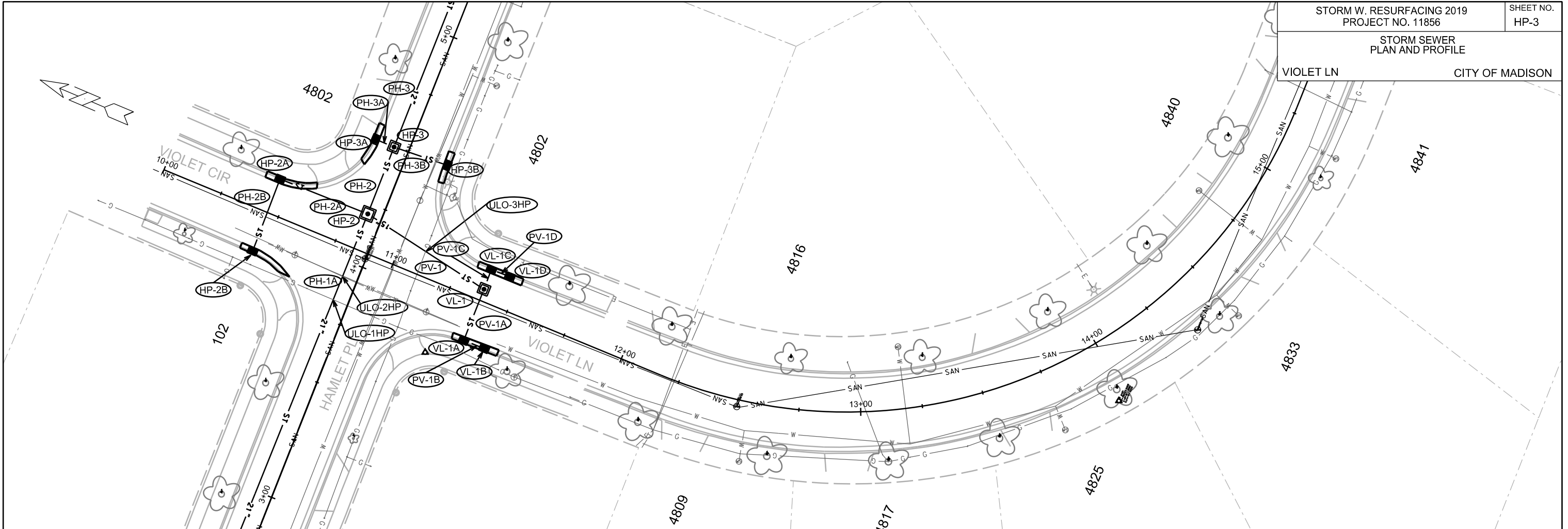


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 6/7/19 EEA
 ** REVISED 6/17/19 KDF

STORM WITH RESURFACING 2019	SHEET NO.
PROJECT NO. 11856	HP-4
STORM SEWER SCHEDULE	
HAMLET PL	CITY OF MADISON

PROPOSED STORM STRUCTURES

HAMLET PL

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HP-0	1.07.37	LT-29.35	STORM TAP	-	896.55	-	TAP EX IN 6739-010
** HP-1	1+06.35	LT-7.38	3X3 SAS	901.24	896.93	4.31	W/ R-1550-0054
HP-1A	2+50.00	LT-7.00	3X3 SAS	903.31	899.00	4.31	W/ R-1550-0054
HP-2	4+20.80	LT-6.00	4X4 SAS	908.36	903.28	5.08	W/ R-1550-0054
HP-3	4+50.00	LT-6.00	3X3 SAS	909.40	905.80	3.60	W/ R-1550-0054
HP-3A	4+50.00	LT-14.25	H INLET	909.53	905.93	3.60	W/ R-367-7004-V
HP-3B	4+50.94	RT-16.69	H INLET	909.58	906.28	3.30	W/ R-367-7004-V
HP-4	6+00.00	LT-6.00	3X3 SAS	916.02	912.42	3.60	W/ R-1550-0054
HP-5	8+50.00	LT-6.00	3X3 SAS	923.69	920.09	3.60	W/ R-1550-0054
HP-5A	8+50.00	LT-15.50	H INLET	923.87	920.27	3.60	W/ R-367-7004-V
HP-5B	8+50.00	RT-15.50	H INLET	923.98	920.38	3.60	W/ R-367-7004-V

VIOLET LN

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HP-2A	10+44.75	LT-14.48	H INLET	908.58	903.99	4.59	W/ R-367-7004-V
HP-2B	10+45.67	RT-16.64	H INLET	907.61	904.61	3.00	W/ R-367-7004-V

VIOLET CIR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
VL-1	11+38.00	LT-4.77	3X3 SAS	908.24	904.10	4.14	W/ R-1550-0054
VL-1A	11+38.00	RT-17.50	H INLET	907.62	904.22	3.40	W/ R-367-7004-V
VL-1B	11+47.00	RT-17.50	H INLET	907.82	904.52	3.30	W/ R-367-7004-V
VL-1C	11+38.00	LT-13.23	H INLET	908.89	904.13	4.76	W/ R-367-7004-V
VL-1D	11+46.00	LT-13.23	H INLET	908.88	904.41	4.47	W/ R-367-7004-V

ULO SCHEDULE

HAMLET PL

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1HP	3+83.33	LT-6.57	3" STEEL GAS	TOP=902.8215
* ULO-2HP	3+93.65	LT-6.32	WATER	DELETED
* ULO-3HP	4+15.41	RT-21.20	3" STEEL GAS	TOP=904.6383
* ULO-1XHP	1+04.30	LT-8.50	6" PVC FO	TOP=897.0284
* ULO-2XHP	1+10.60	LT-8.20	3" PVC FO	TOP=898.9446
* ULO-3XHP	1+90.50	LT-4.80	1" STEEL GAS	TOP=898.8752
* ULO-4XHP	5+21.60	LT-7.10	1" STEEL GAS	TOP=908.7778
* ULO-5XHP	6+19.30	LT-7.50	1" STEEL GAS	TOP=914.1140
* ULO-6XHP	6+39.70	LT-7.60	1" STEEL GAS	TOP=914.3217
* ULO-7XHP	8+00.30	LT-7.90	1" STEEL GAS	TOP=915.5804 - OK BELOW STORM

PROPOSED STORM PIPES

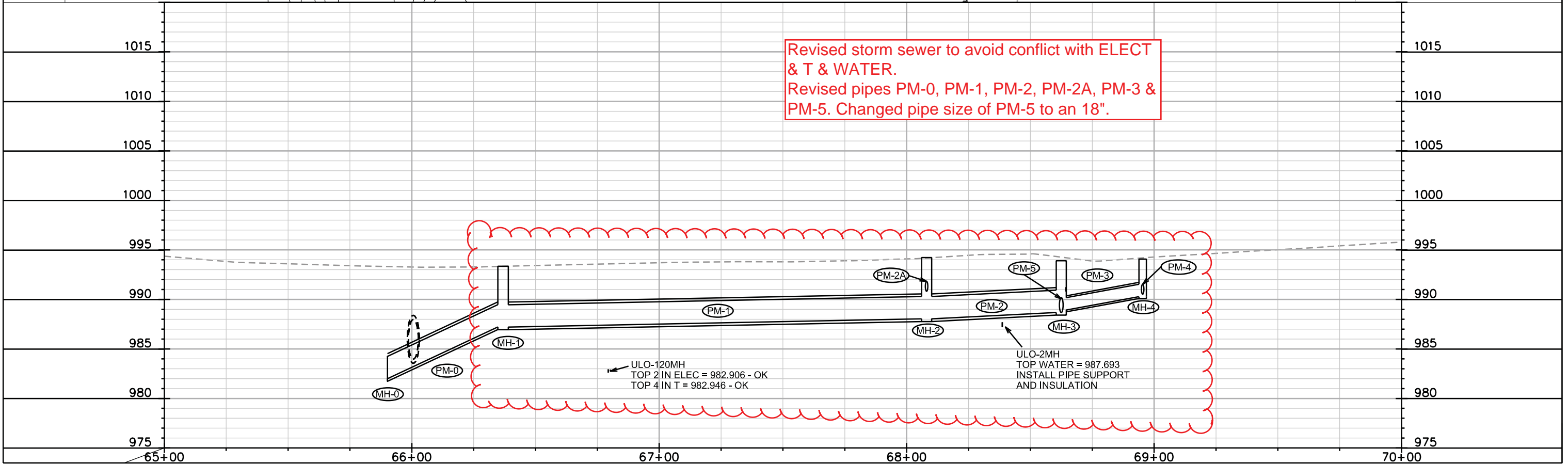
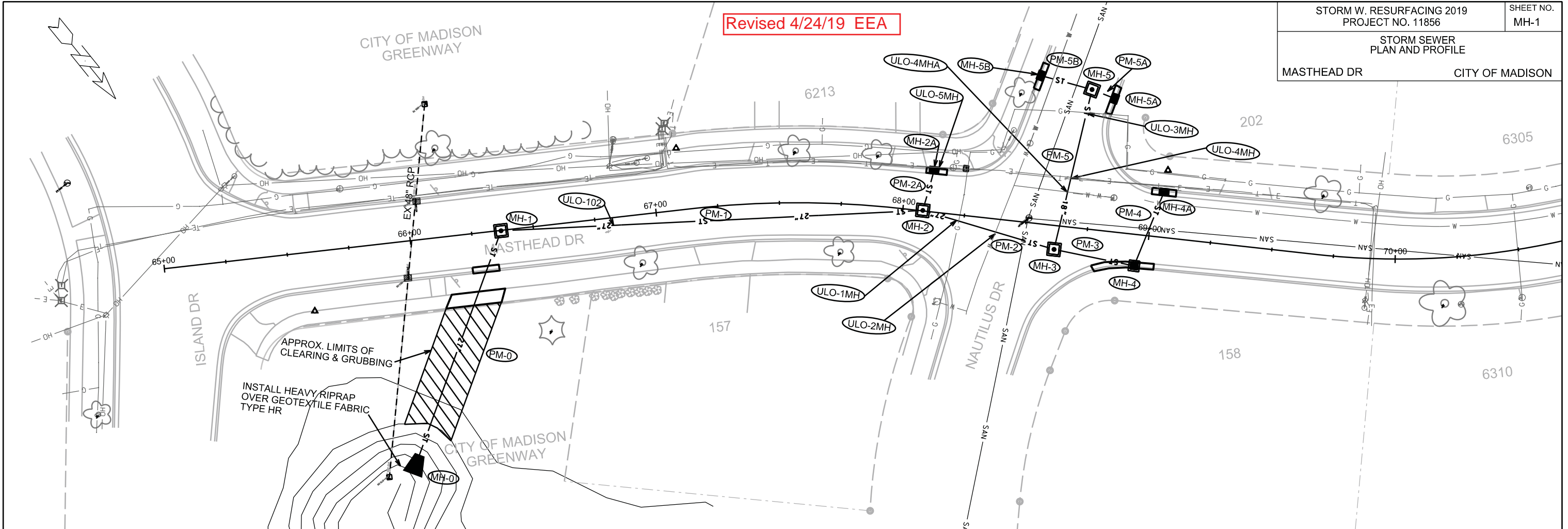
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PH-0	HP-0	HP-1	896.55	896.93	22	20	1.90%	27"	TYPE I	-
** PH-1	HP-1	HP-1A	896.93	899.00	144	141	1.47%	19"X30"	TYPE I	NCM
PH-1A	HP-1A	HP-2	899.00	903.28	171	167	2.56%	21"	TYPE I	-
PH-2	HP-2	HP-3	903.78	905.80	29	26	7.77%	15"	TYPE I	-
PH-2A	HP-2	HP-2A	903.78	903.99	38	35	0.60%	15"	TYPE I	-
PH-2B	HP-2A	HP-2B	904.24	904.61	31	29	1.28%	12"	TYPE I	-
PH-3	HP-3	HP-4	905.80	912.42	150	147	4.50%	12"	TYPE I	-
PH-3A	HP-3	HP-3A	905.80	905.93	8	6	2.17%	12"	TYPE I	-
PH-3B	HP-3	HP-3B	905.80	906.28	23	20	2.40%	12"	TYPE I	-
PH-4	HP-4	HP-5	912.42	920.09	250	247	3.11%	12"	TYPE I	-
PH-5	HP-5	HP-5A	920.09	920.27	10	7	2.57%	12"	TYPE I	-
PH-5A	HP-5	HP-5B	920.09	920.38	21	19	1.53%	12"	TYPE I	-

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PV-1	HP-2	VL-1	903.78	904.10	56	52	0.62%	15"	TYPE I	-
PV-1A	VL-1	VL-1A	904.10	904.22	22	19	0.63%	15"	TYPE I	-
PV-1B	VL-1A	VL-1B	904.47	904.52	9	6	0.83%	12"	TYPE I	-
PV-1C	VL-1	VL-1C	904.10	904.13	8	5	0.60%	15"	TYPE I	-
PV-1D	VL-1C	VL-1D	904.38	904.41	8	5	0.60%	12"	TYPE I	-

STANDARD NOTES:

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Revised 4/24/19 EEA



Revised storm sewer to avoid conflict with ELECT & T & WATER.
 Revised pipes PM-0, PM-1, PM-2, PM-2A, PM-3 & PM-5. Changed pipe size of PM-5 to an 18".

ULO-120MH
 TOP 2 IN ELEC = 982.906 - OK
 TOP 4 IN T = 982.946 - OK

ULO-2MH
 TOP WATER = 987.693
 INSTALL PIPE SUPPORT
 AND INSULATION

PLOT SCALE: _____
 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 4/23/19 EEA
 + REVISED 4/24/19 EEA

STORM WITH RESURFACING 2019	SHEET NO.
PROJECT NO. 11856	MH-2
STORM SEWER SCHEDULE	
MASTHEAD DRIVE	CITY OF MADISON

PROPOSED STORM STRUCTURES

MASTHEAD DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
MH-0	65+90.20	RT-94.11	27" RCP AE	-	982.00	-	W/ GATE
* MH-1	66+36.91	CL	4X4 SAS	993.35	987.21	6.14	W/ R-1550-0054
* MH-2	68+08.06	CL	4X4 SAS	994.22	988.04	6.18	W/ R-1550-0054
* MH-2A	68+10.83	LT-16.86	H INLET	994.16	991.66	2.50	FP; W/ R-3067-7004-V
+* MH-3	68+62.49	RT-9.62	4X4 SAS	993.90	988.68	5.22	W/ R-1550
MH-4	68+90.42	RT-12.39	3X3 SAS	994.08	990.28	3.80	W/ R-3067-7004-V
MH-4A	69+04.14	LT-18.32	H INLET	994.69	991.29	3.40	W/ R-3067-7004-V
* MH-5	68+70.65	LT-56.32	4X4 SAS	995.29	989.53	5.76	W/ R-1550-0054; (1)
MH-5A	68+80.14	LT-53.69	H INLET	995.39	991.79	3.60	W/ R-3067-7004-V
MH-5B	68+49.56	LT-59.65	H INLET	995.27	991.67	3.60	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
* PM-0	MH-0	MH-1	982.00	987.21	105	102	5.11%	27"	TYPE I	-
* PM-1	MH-1	MH-2	987.21	988.04	170	166	0.50%	27"	TYPE I	-
+* PM-2	MH-2	MH-3	988.04	988.68	55	51	1.25%	27"	TYPE I	-
* PM-2A	MH-2	MH-2A	990.82	991.66	17	14	6.00%	12"	TYPE I	NCM
+* PM-3	MH-3	MH-4	988.93	990.28	33	30	4.50%	15"	TYPE I	-
PM-4	MH-4	MH-4A	990.53	991.29	32	30	2.53%	12"	TYPE I	-
+* PM-5	MH-3	MH-5	988.68	989.53	66	62	1.37%	18"	TYPE I	NCM
PM-5A	MH-5	MH-5A	991.24	991.79	10	7	7.86%	12"	TYPE I	NCM
* PM-5B	MH-5	MH-5B	991.24	991.67	21	18	2.39%	12"	TYPE I	NCM

ULO SCHEDULE

MASTHEAD DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1MH	68+23.00	RT-2.30	GAS	DELETED - GAS TO ABANDON STEEL GAS MAIN
+* ULO-2MH	68+38.08	RT-5.35	WATER	TOP = 987.693 - STORM ABOVE WATER - INSTALL PIPE SUPPORT AND INSULATION IN BETWEEN
* ULO-3MH	68+70.00	LT-46.40	GAS	DELETED - GAS TO ABANDON STEEL GAS MAIN
* ULO-4MH	68+66.39	LT-19.72	ELEC	TOP 3 IN ELEC = 991.208 - OK - STORM UNDER TOP 2 IN T = 990.968 - OK - STORM REVISED TO GO UNDER
+* ULO-4MHA			WATER	TOP = 987.897 - OK - STORM REVISED - ABOVE WATER
* ULO-5MH	68+11.05	LT-18.21	ELEC & T	TOP 5 IN ELEC = 990.771 - OK - STORM INLET REVISED TO GO OVER TOP 2 IN T = 990.591 - OK - STORM INLET REVISED TO GO OVER
* ULO-102MH			ELEC & T	TOP 2 IN ELEC = 982.906 - OK STORM ABOVE TOP 4 IN T = 982.946 - OK STORM ABOVE

STANDARD NOTES:

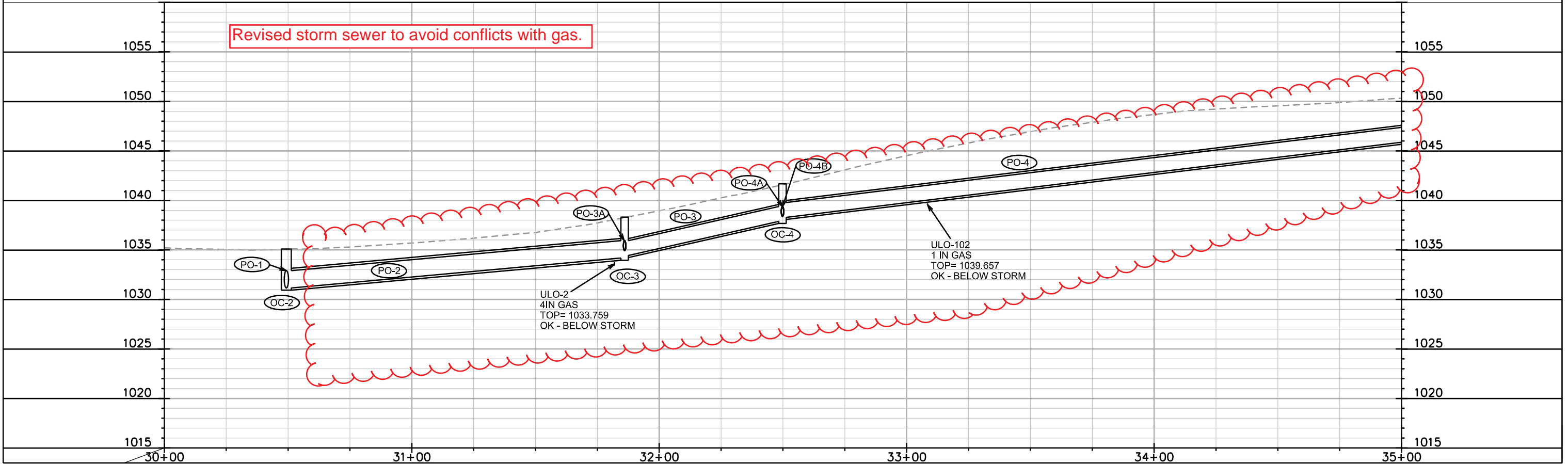
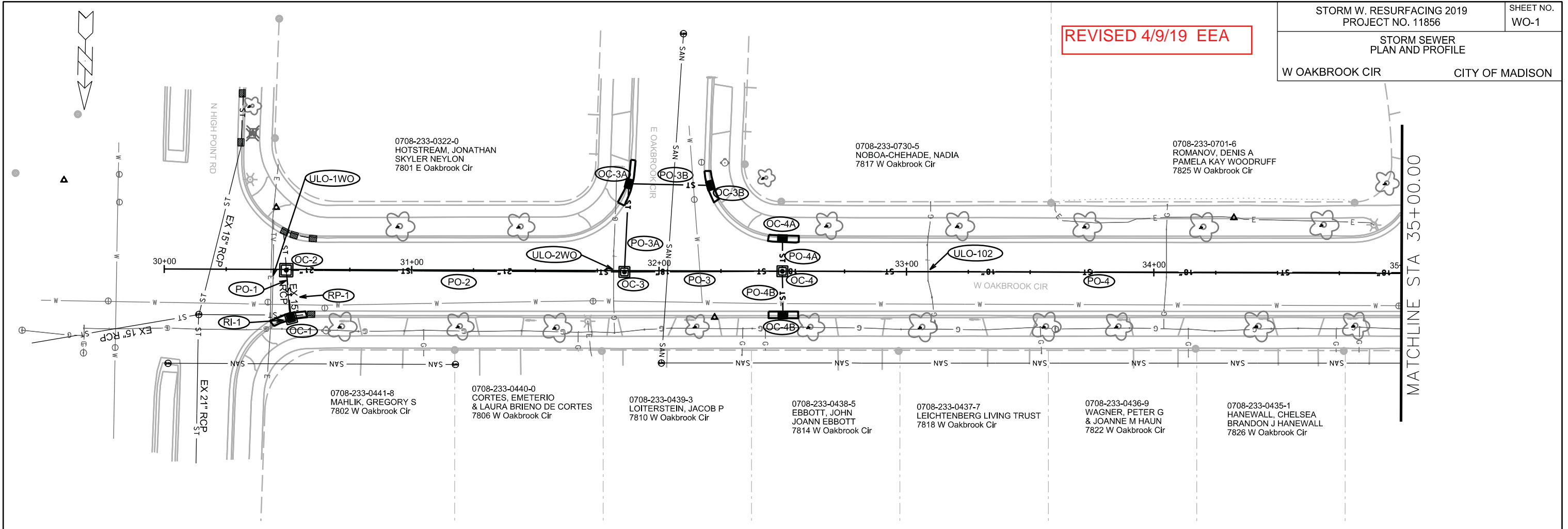
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SPECIFIC NOTES

- (1) BOX OUT FOR FUTURE 21" TO WEST

STORM SEWER
PLAN AND PROFILE
W OAKBROOK CIR CITY OF MADISON

REVISED 4/9/19 EEA



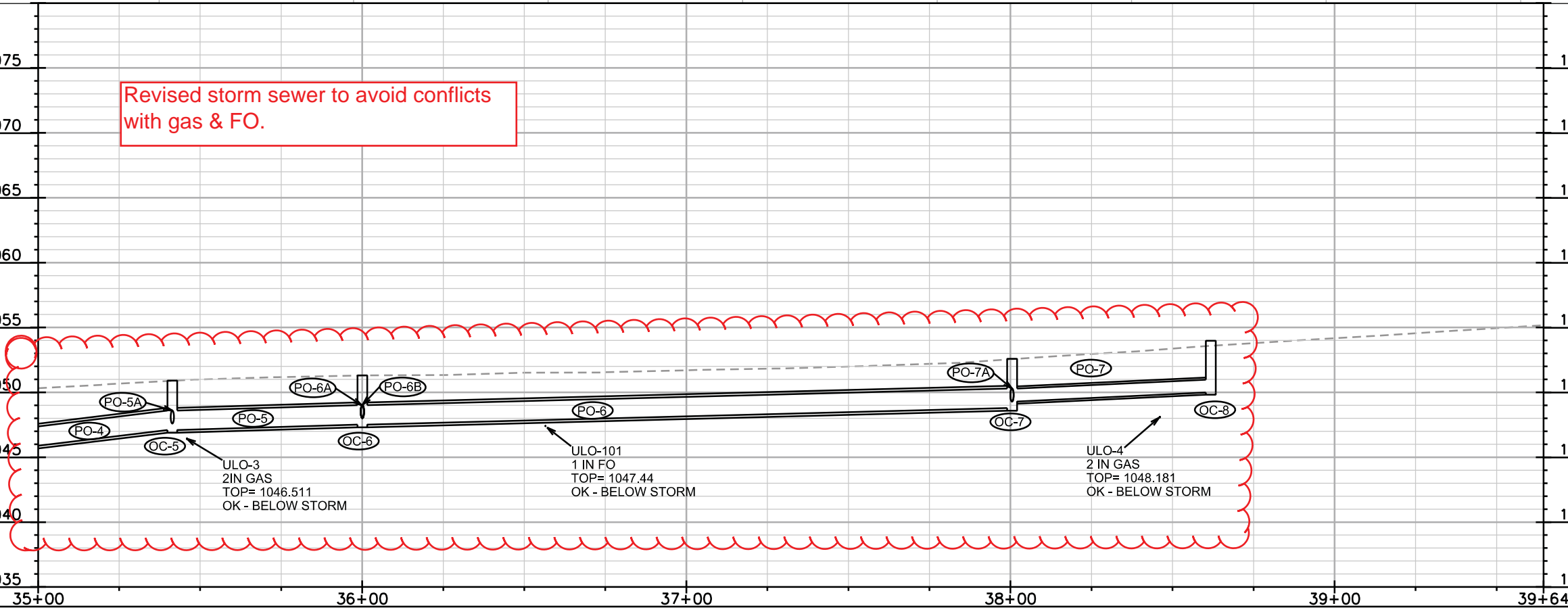
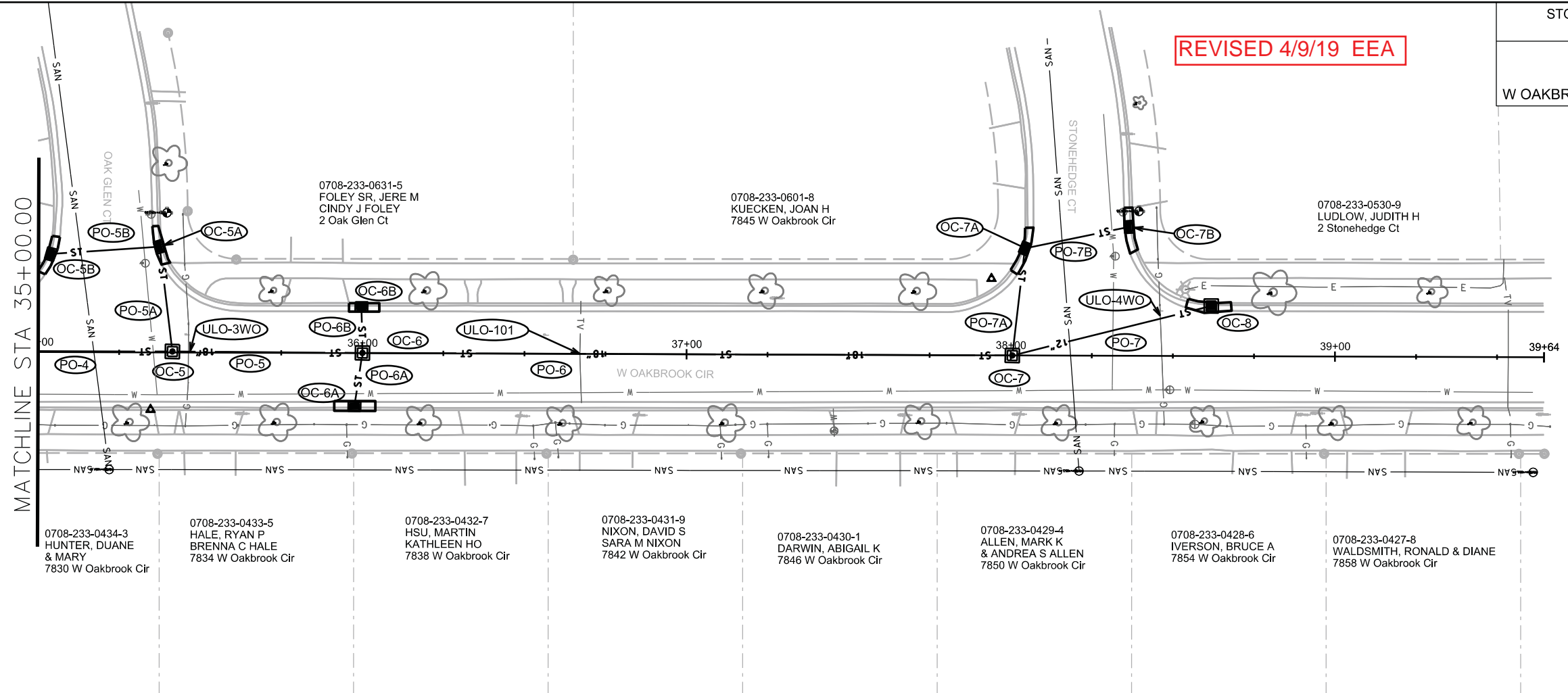
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 4/9/19 EEA



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 4/9/19 EEA

STORM WITH RESURFACING 2019 PROJECT NO. 11856	SHEET NO. WO-3
STORM SEWER SCHEDULE	
W OAKBROOK CIR	CITY OF MADISON

PROPOSED STORM STRUCTURES

W OAKBROOK CIR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
OC-1	30+51.32	RT-19.71	4X4 SAS	1034.92	1030.99	3.93	FP; W/ R-3067-7004-V; (1)
OC-2	30+49.31	CL	4X4 SAS	1035.09	1031.16	3.93	FP; W/ R-1550-0054; (1)
* OC-3	31+86.00	CL	3X3 SAS	1038.31	1034.18	4.13	W/ R-1550-0054
* OC-3A	31+87.67	LT-35.10	H INLET	1038.86	1035.10	3.76	W/ R-3067-7004-V
OC-3B	32+20.58	LT-34.54	H INLET	1039.67	1036.37	3.30	W/ R-3067-7004-V
* OC-4	32+49.84	CL	3X3 SAS	1041.68	1037.88	3.80	W/ R-1550-0054
* OC-4A	32+49.82	LT-13.23	H INLET	1041.44	1038.44	3.00	W/ R-3067-7004-V
* OC-4B	32+50.11	RT-17.50	H INLET	1042.12	1038.86	3.26	W/ R-3067-7004-V
* OC-5	35+41.43	CL	3X3 SAS	1050.90	1047.10	3.80	W/ R-1550-0054
* OC-5A	35+37.38	LT-32.67	H INLET	1051.22	1047.75	3.47	W/ R-3067-7004-V
* OC-5B	35+03.77	LT-30.25	H INLET	1050.29	1047.92	2.37	FP; W/ R-3067-7004-V
* OC-6	36+00.00	CL	3X3 SAS	1051.31	1047.51	3.80	W/ R-1550-0054
* OC-6A	35+97.61	RT-16.54	H INLET	1051.40	1048.09	3.31	W/ R-3067-7004-V
* OC-6B	36+00.00	LT-14.41	H INLET	1051.46	1048.09	3.37	W/ R-3067-7004-V
* OC-7	38+00.00	CL	3X3 SAS	1052.59	1048.79	3.80	W/ R-1550-0054
OC-7A	38+04.24	LT-33.00	H INLET	1052.79	1049.49	3.30	W/ R-3067-7004-V
OC-7B	38+36.34	LT-39.80	H INLET	1053.59	1050.29	3.30	W/ R-3067-7004-V
OC-8	38+61.80	LT-15.50	3X3 SAS	1053.98	1049.98	4.00	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
PO-1	OC-1	OC-2	1030.99	1031.16	20	16	1.06%	21"	TYPE I	-
* PO-2	OC-2	OC-3	1031.16	1034.18	137	133	2.27%	21"	TYPE I	-
* PO-3	OC-3	OC-4	1034.43	1037.88	64	61	5.66%	18"	TYPE I	-
* PO-3A	OC-3	OC-3A	1034.93	1035.10	36	33	0.52%	12"	TYPE I	-
PO-3B	OC-3A	OC-3B	1035.10	1036.37	33	31	4.10%	12"	TYPE I	-
* PO-4	OC-4	OC-5	1038.28	1047.10	292	289	3.05%	18"	TYPE I	-
* PO-4A	OC-4	OC-4A	1038.38	1038.44	13	11	0.55%	12"	TYPE I	-
* PO-4B	OC-4	OC-4B	1038.38	1038.86	18	15	3.20%	12"	TYPE I	-
* PO-5	OC-5	OC-6	1047.10	1047.51	59	56	0.73%	18"	TYPE I	-
* PO-5A	OC-5	OC-5A	1047.60	1047.75	33	30	0.50%	12"	TYPE I	-
* PO-5B	OC-5A	OC-5B	1047.75	1047.92	34	32	0.53%	12"	TYPE I	-
* PO-6	OC-6	OC-7	1047.51	1048.79	200	197	0.65%	18"	TYPE I	-
* PO-6A	OC-6	OC-6A	1048.01	1048.09	17	14	0.57%	12"	TYPE I	-
* PO-6B	OC-6	OC-6B	1048.01	1048.09	14	12	0.67%	12"	TYPE I	-
* PO-7	OC-7	OC-8	1049.29	1049.98	63	60	1.15%	12"	TYPE I	-
* PO-7A	OC-7	OC-7A	1049.29	1049.49	33	30	0.67%	12"	TYPE I	-
* PO-7B	OC-7A	OC-7B	1049.49	1050.29	33	31	2.58%	12"	TYPE I	-

STORM STRUCTURE REMOVALS

W OAKBROOK CIR

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RI-1	IN 2353-006	30+51.32	RT-19.71	H INLET	-

STORM PIPE REMOVALS

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	OC-1	OC-2	19	15"	RCP	N	-

ULO SCHEDULE

W OAKBROOK CIR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1WO	30+43.67	RT-2.73	ELEC & TV	DELETED - NOT NECESSARY
* ULO-2WC	31+82.71	LT-31.85	2 IN GAS	TOP= 1033.759 - OK - STORM ABOVE GAS
* ULO-3WO	35+46.13	CL	2 IN GAS	TOP= 1046.511 - OK - STORM ABOVE GAS
* ULO-4WO	38+45.85	LT-11.64	2 IN GAS	TOP= 1048.181 - OK - STORM ABOVE GAS
* ULO-101	36+67.10	CL	1 IN FO	TOP= 1047.444 -OK - STORM ABOVE FO
* ULO-102	33+08.61	CL	1 IN GAS	TOP=1039.657 - OK - STORM ABOVE GAS

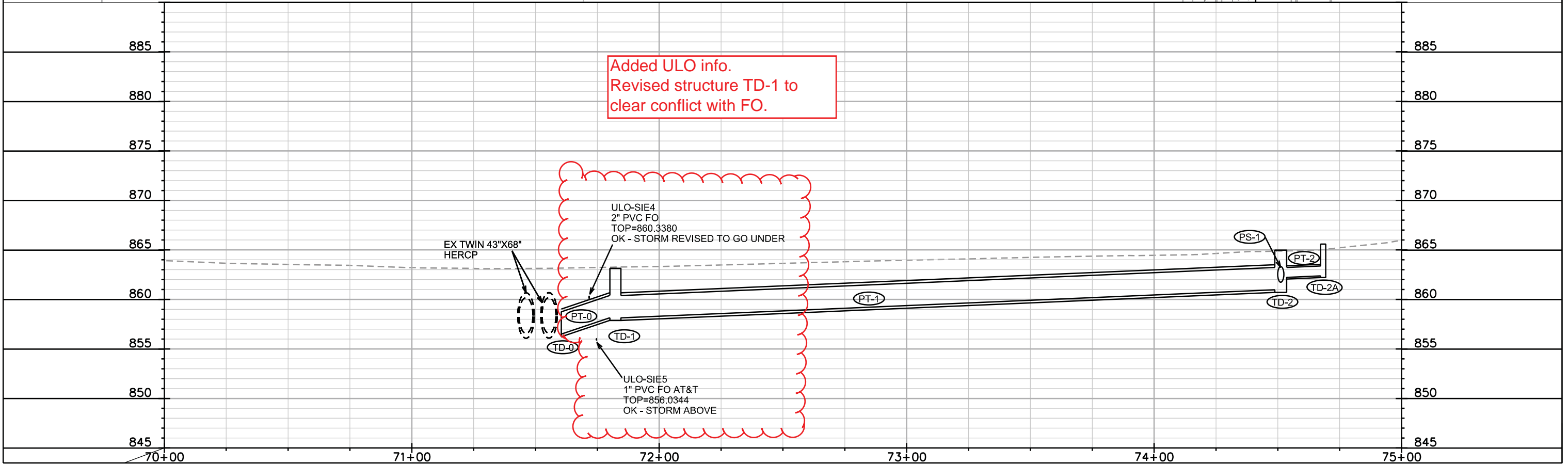
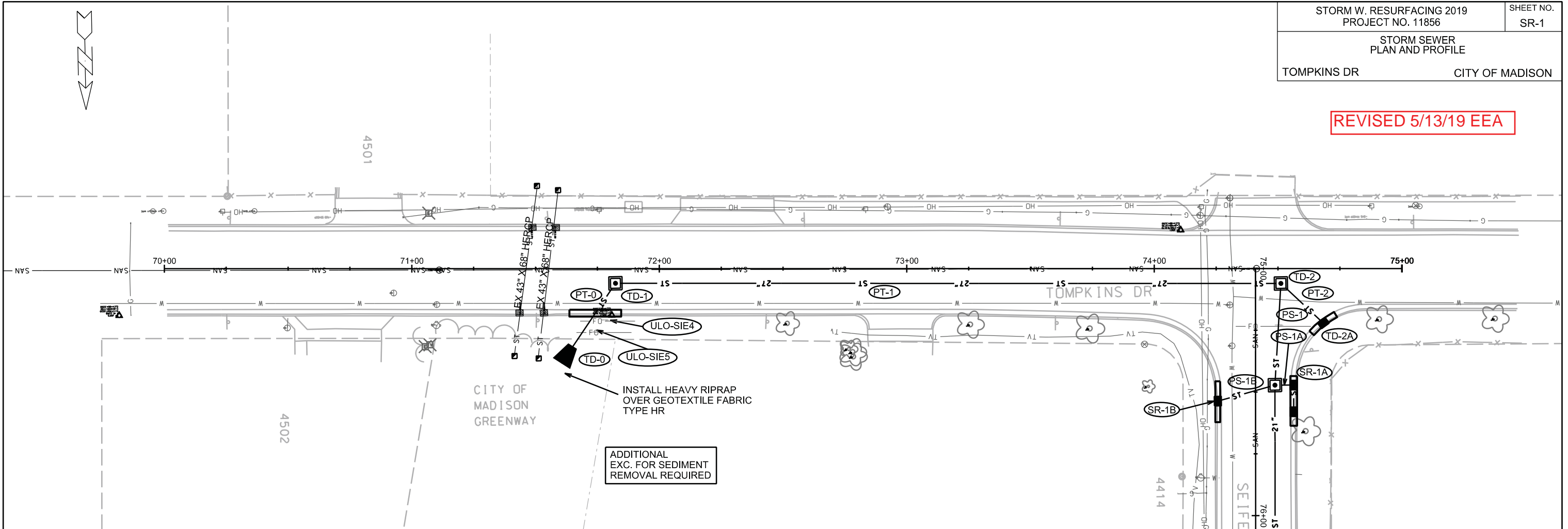
SPECIFIC NOTES

(1) RECONNECT EX STORM PIPES

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; 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

REVISED 5/13/19 EEA



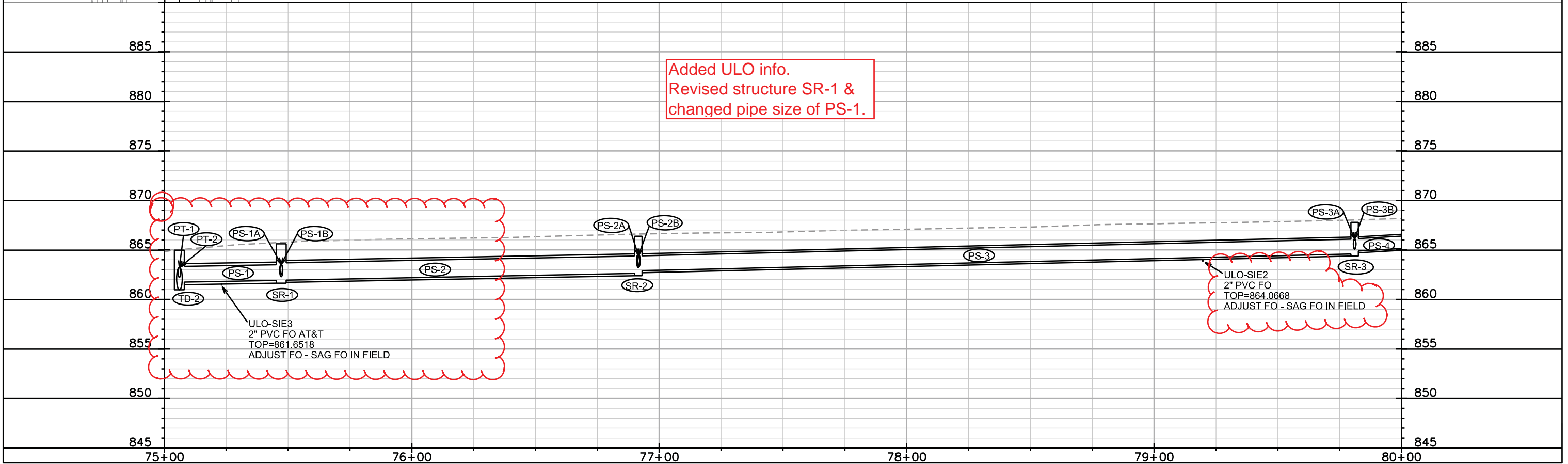
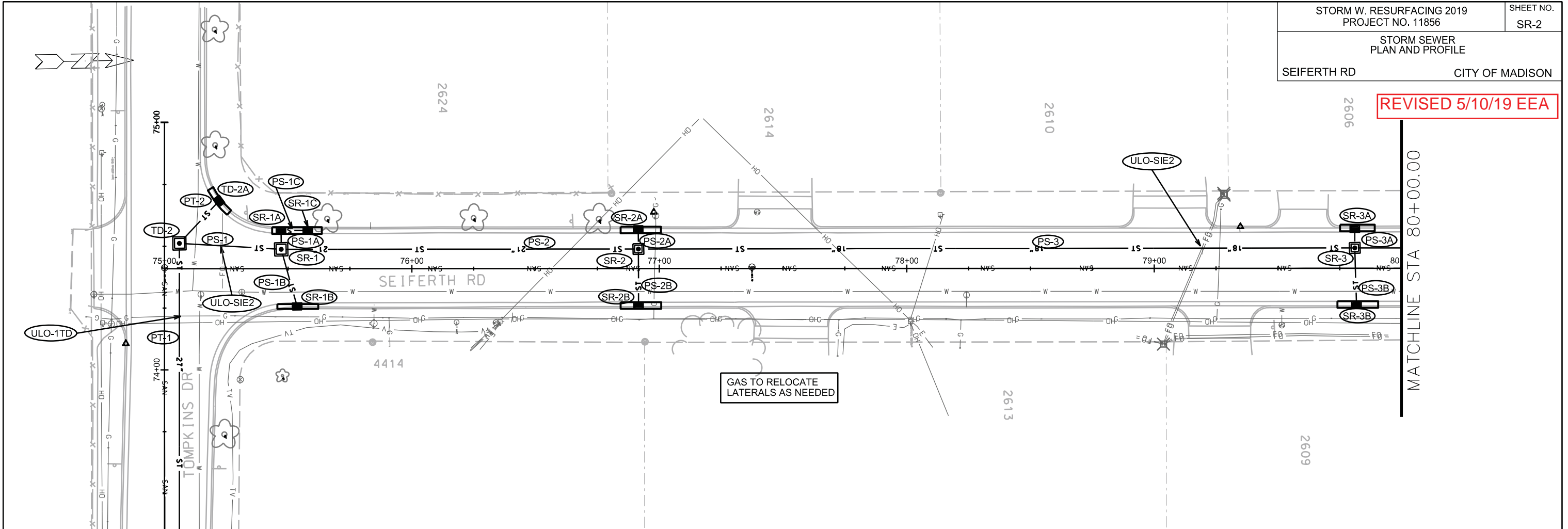
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PLOT NAME: _____

REV. DATE: _____

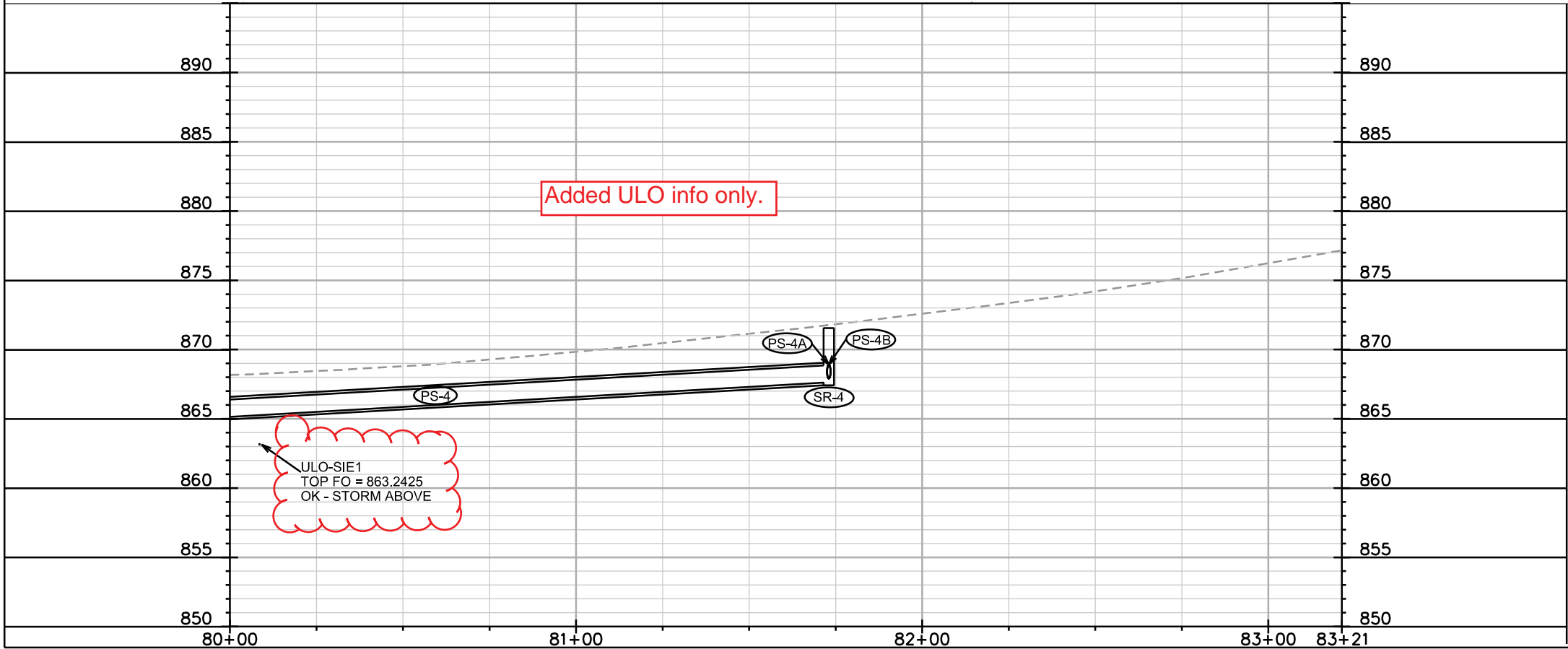
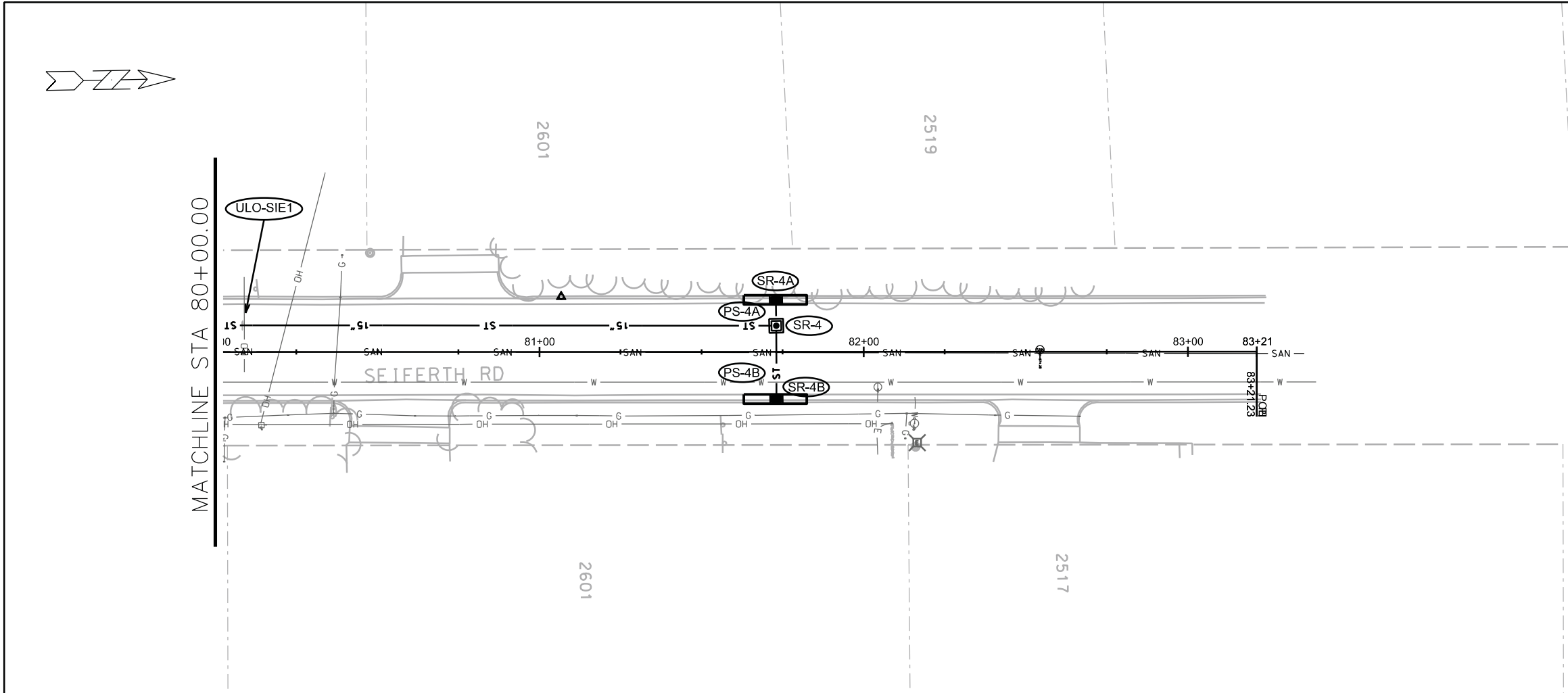
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 5/10/19 EEA



PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 5/10/19 EEA



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 5/13/19 EEA

STORM WITH RESURFACING 2019	SHEET NO.
PROJECT NO. 11856	SR-4
STORM SEWER SCHEDULE	
SEIFERTH RD	CITY OF MADISON

PROPOSED STORM STRUCTURES

TOMPKINS DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
TD-0	71+60.45	RT-38.35	27" RCP AE	-	856.50	-	W/ GATE
* TD-1	71+82.29	RT-5.94	4X4 SAS	863.14	858.14	5.00	W/ R-1550-0054
TD-2	74+51.17	RT-6.00	4X4 SAS	864.98	860.98	4.00	FP; W/ R-1550-0054; (1)
TD-2A	74+68.33	RT-22.07	H INLET	865.59	862.38	3.21	W/ R-3067-7004-V

SEIFERTH RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* SR-1	75+47.23	LT-7.84	4X4 SAS	865.61	861.54	4.07	FP; W/ R-1550-0054
SR-1A	75+47.17	LT-15.35	H INLET	865.82	862.32	3.50	W/ R-3067-7004-V
SR-1B	75+53.66	RT-15.27	H INLET	865.73	862.67	3.06	W/ R-3067-7004-V
SR-1C	75+58.00	LT-15.41	H INLET	865.91	862.62	3.29	W/ R-3067-7004-V
SR-2	76+91.56	LT-7.91	3X3 SAS	866.38	862.64	3.74	FP; W/ R-1550-0054
SR-2A	76+91.50	LT-15.88	H INLET	866.50	863.42	3.08	W/ R-3067-7004-V
SR-2B	76+91.61	RT-14.94	H INLET	866.32	863.51	2.81	FP; W/ R-3067-7004-V
* SR-3	79+81.04	LT-8.27	3X3 SAS	867.78	864.60	3.18	FP; W/ R-1550-0054
SR-3A	79+81.05	LT-15.90	H INLET	867.86	865.13	2.73	FP; W/ R-3067-7004-V
SR-3B	79+81.71	RT-14.75	H INLET	867.92	865.23	2.69	FP; W/ R-3067-7004-V
SR-4	81+73.00	LT-8.06	3X3 SAS	871.55	867.65	3.90	W/ R-1550-0054
SR-4A	81+72.93	LT-16.02	H INLET	871.65	868.05	3.60	W/ R-3067-7004-V
SR-4B	81+73.08	LT-14.60	H INLET	871.61	868.02	3.59	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
* PT-0	TD-0	TD-1	856.50	858.14	39	37	4.43%	27"	TYPE I	-
* PT-1	TD-1	TD-2	858.14	860.98	269	265	1.07%	27"	TYPE I	-
PT-2	TD-2	TD-2A	862.23	862.38	23	20	0.75%	12"	TYPE I	-
* PS-1	TD-2	SR-1	861.74	861.93	41	37	0.51%	19"X30"	TYPE I	-
PS-1A	SR-1	SR-1A	862.29	862.32	8	5	0.60%	15"	TYPE I	-
PS-1B	SR-1	SR-1B	862.54	862.67	24	21	0.62%	12"	TYPE I	-
PS-1C	SR-1A	SR-1C	862.57	862.62	11	8	0.62%	12"	TYPE I	-
* PS-2	SR-1	SR-2	861.93	862.64	144	141	0.50%	21"	TYPE I	NCM
PS-2A	SR-2	SR-2A	863.39	863.42	8	5	0.60%	12"	TYPE I	-
PS-2B	SR-2	SR-2B	863.39	863.51	23	20	0.60%	12"	TYPE I	-
PS-3	SR-2	SR-3	862.89	864.60	289	286	0.60%	18"	TYPE I	-
PS-3A	SR-3	SR-3A	865.10	865.13	8	5	0.60%	12"	TYPE I	-
PS-3B	SR-3	SR-3B	865.10	865.23	23	21	0.62%	12"	TYPE I	-
PS-4	SR-3	SR-4	864.85	867.65	192	189	1.48%	15"	TYPE I	-
PS-4A	SR-4	SR-4A	867.90	868.05	8	6	2.50%	12"	TYPE I	-
PS-4B	SR-4	SR-4B	867.90	868.02	23	20	0.60%	12"	TYPE I	-

ULO SCHEDULE

TOMPKINS DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1TD	74+21.57	RT-5.98	GAS	
* ULO-SIE1	80+08.50	LT-9.40	FO 1" PVC AT&T	TOP=863.2425 - OK STORM ABOVE
* ULO-SIE2	79+19.70	LT-8.10	FO 2" PVC	TOP=864.0668 - ADJUST FO OR SAG FO IN FIELD
* ULO-SIE3	75+23.10	LT-10.70	FO 2" PVC AT&T	TOP = 861.6518 - ADJUST FO OR SAG FO IN FIELD
* ULO-SIE4	71+79.20	RT-20.90	FO 2" PVC	TOP = 860.3380 - OK STORM REVISED TO GO UNDER
* ULO-SIE5	71+74.60	RT-25.80	FO 1" PVC AT&T	TOP = 856.0344 - OK STORM ABOVE

STANDARD NOTES:

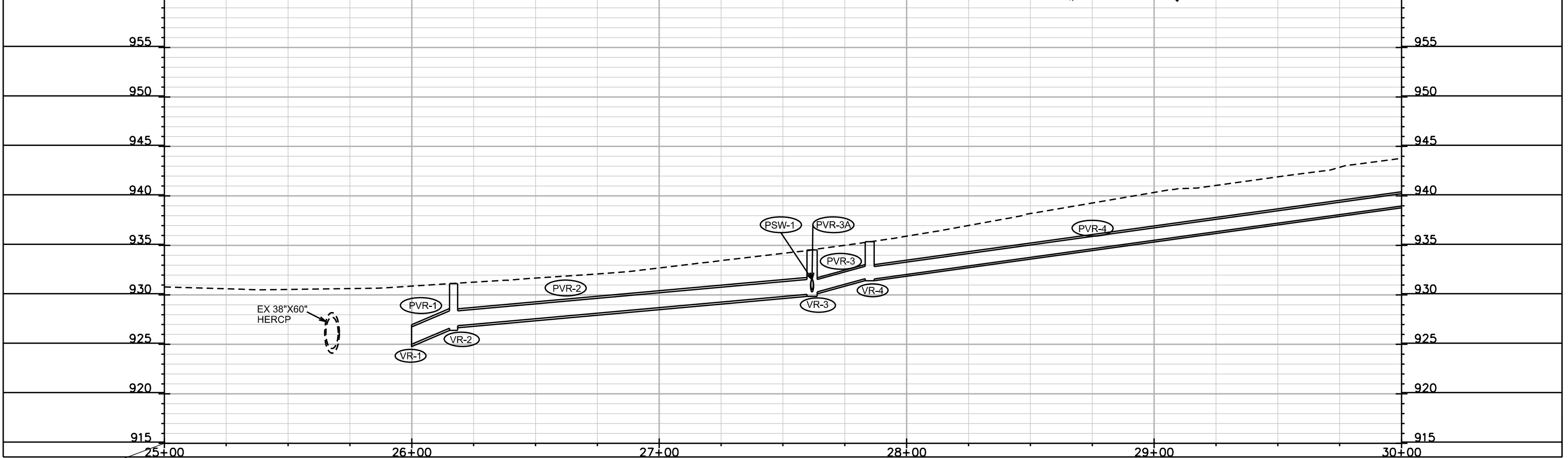
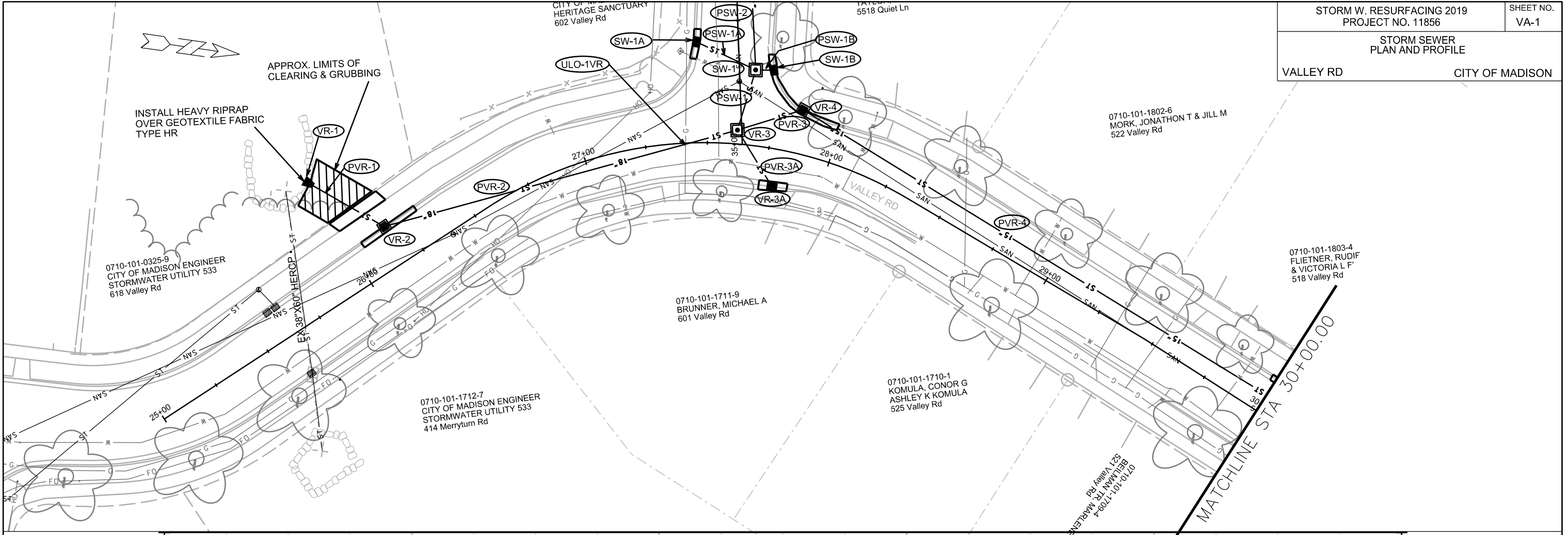
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

SPECIFIC NOTES

- (1) SHALLOW; POUR ROOF INTO PIPE WALL

STORM SEWER
PLAN AND PROFILE

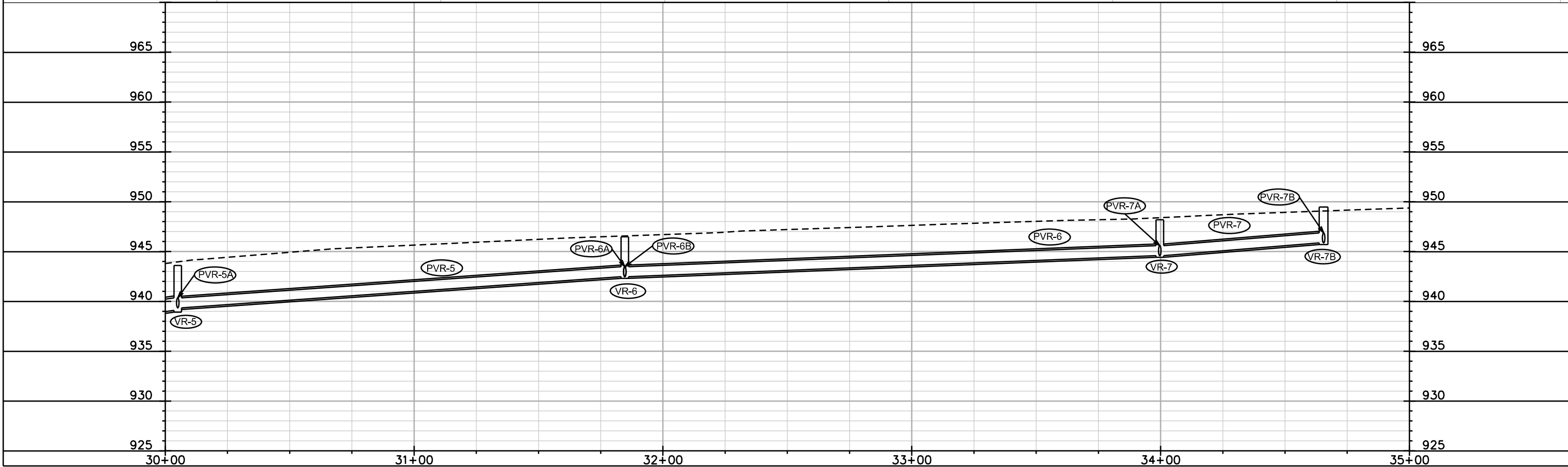
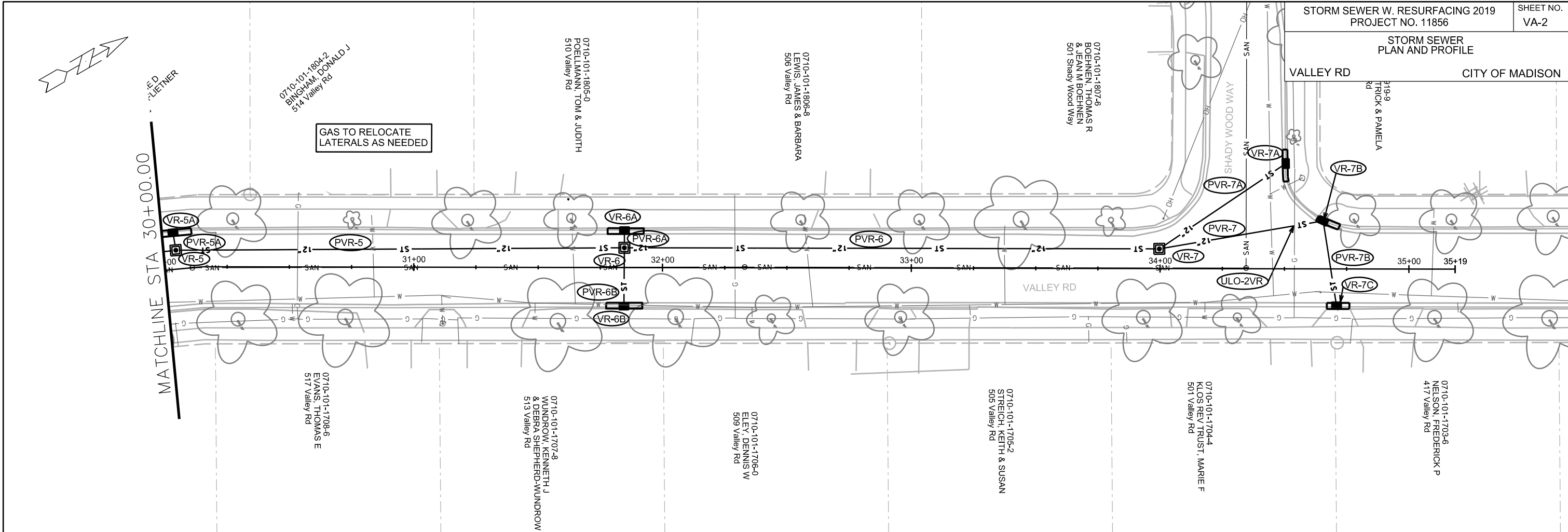
VALLEY RD CITY OF MADISON



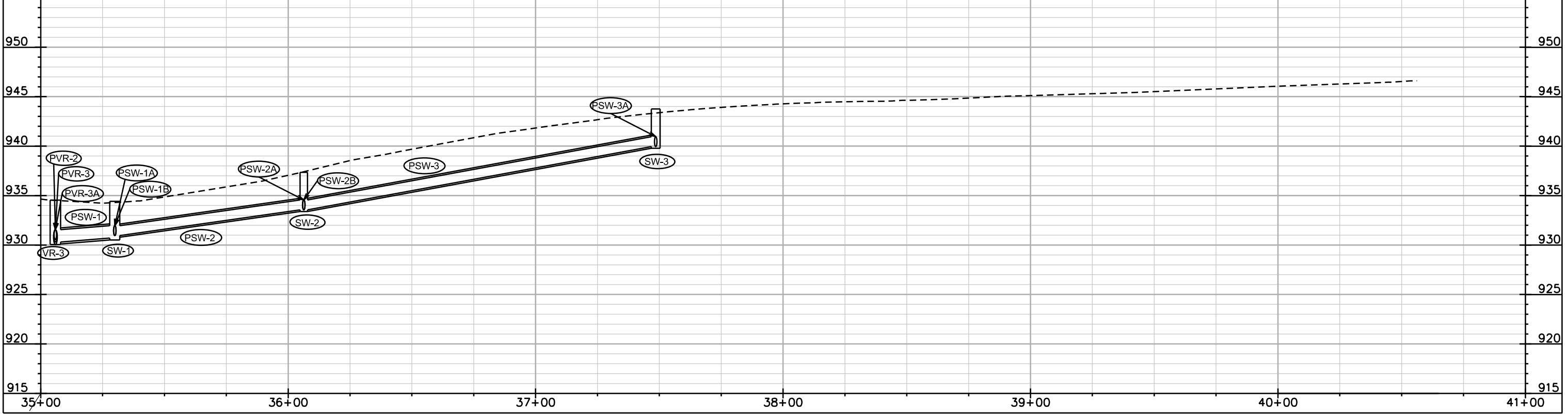
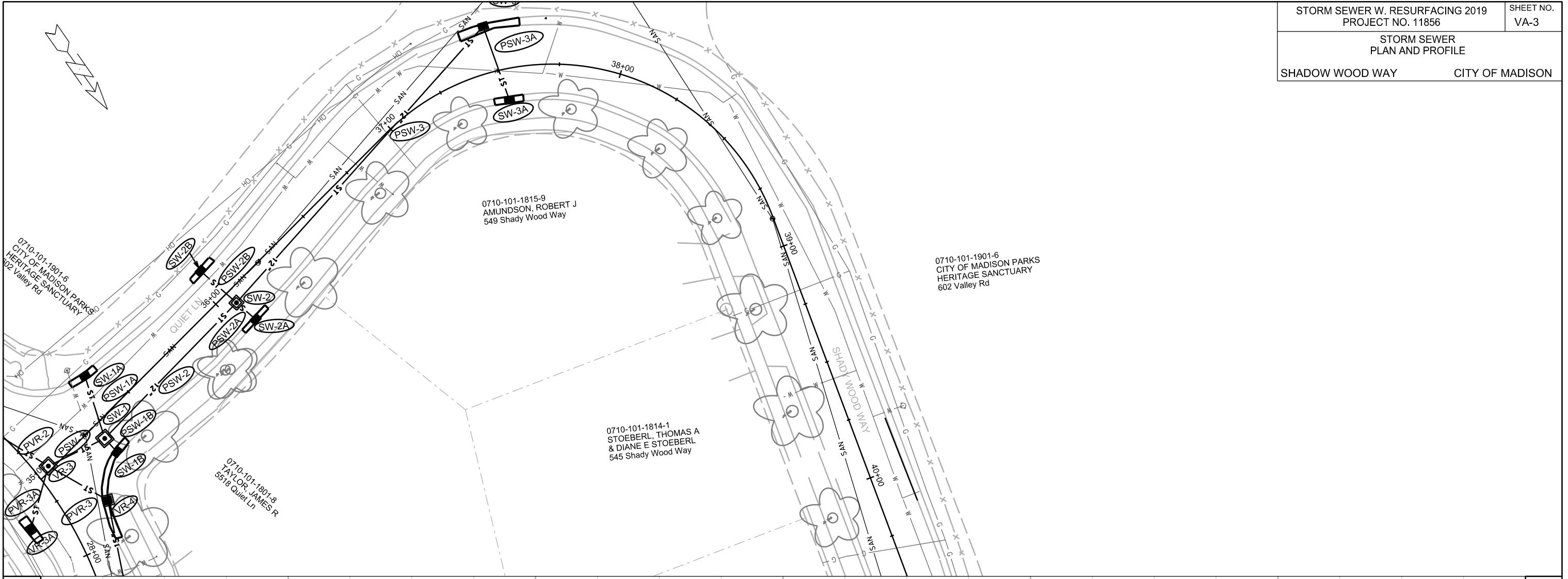
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 PLOT NAME: _____
 REV. DATE: _____
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE

VALLEY RD CITY OF MADISON



PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

STORM WITH RESURFACING 2019		SHEET NO.
PROJECT NO. 11856		VA-4
STORM SEWER SCHEDULE		
VALLEY RD	CITY OF MADISON	

PROPOSED STORM STRUCTURES

VALLEY RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
VR-1	26+00.00	LT-49.71	21" RCP AE	-	925.00	-	W/ GATE
VR-2	26+16.89	LT-16.50	3X3 SAS	931.13	926.63	4.50	W/ R-3067-7004-V
VR-3	27+61.76	LT-5.61	4X4 SAS	934.54	930.05	4.49	W/ R-1550-0054
VR-3A	27+79.11	RT-15.15	H INLET	935.27	931.67	3.60	W/ R-3067-7004-V
VR-4	27+85.04	LT-17.75	3X3 SAS	935.37	931.60	3.77	W/ R-3067-7004-V
VR-5	30+05.00	LT-7.62	3X3 SAS	943.60	939.10	4.50	W/ R-1550-0054
VR-5A	30+05.00	LT-14.82	H INLET	943.93	939.60	4.33	W/ R-3067-7004-V
VR-6	31+84.66	LT-7.94	3X3 SAS	946.48	942.48	4.00	W/ R-1550-0054
VR-6A	31+84.66	LT-14.93	H INLET	946.64	942.84	3.80	W/ R-3067-7004-V
VR-6B	31+84.52	RT-15.60	H INLET	946.60	943.00	3.60	W/ R-3067-7004-V
VR-7	34+00.00	LT-7.93	3X3 SAS	948.19	944.59	3.60	FP; W/ R-1550-0054
VR-7A	34+50.44	LT-42.33	H INLET	949.98	946.38	3.60	W/ R-3067-7004-V
VR-7B	34+65.50	LT-19.30	H INLET	949.46	945.86	3.60	FP; W/ R-3067-7004-V
VR-7C	34+70.96	RT-14.74	H INLET	949.06	946.06	3.00	W/ R-3067-7004-V

SHADY WOOD WAY

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
SW-1	35+29.93	RT-6.50	4X4 SAS	934.41	930.70	3.71	FP; W/ R-1550-0054
SW-1A	35+42.10	LT-16.95	H INLET	934.22	931.08	3.14	W/ R-3067-7004-V
SW-1B	35+29.55	RT-13.85	H INLET	935.21	931.15	4.06	W/ R-3067-7004-V
SW-2	36+06.32	RT-5.42	3X3 SAS	937.35	933.55	3.80	W/ R-1550-0054
SW-2A	36+07.03	RT-15.73	H INLET	937.75	933.95	3.80	W/ R-3067-7004-V
SW-2B	36+05.15	LT-13.83	H INLET	936.87	933.65	3.22	W/ R-3067-7004-V
SW-3	37+48.54	LT-18.80	H INLET	943.75	939.95	3.80	W/ R-3067-7004-V
SW-3A	37+51.99	RT-12.65	H INLET	943.57	940.13	3.44	W/ R-3067-7004-V

ULO SCHEDULE

VALLEY RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1VR	27+41.10	CL	GAS	-
ULO-2VR	34+53.71	LT-17.26	GAS	-

SPECIFIC NOTES

PROPOSED STORM PIPES

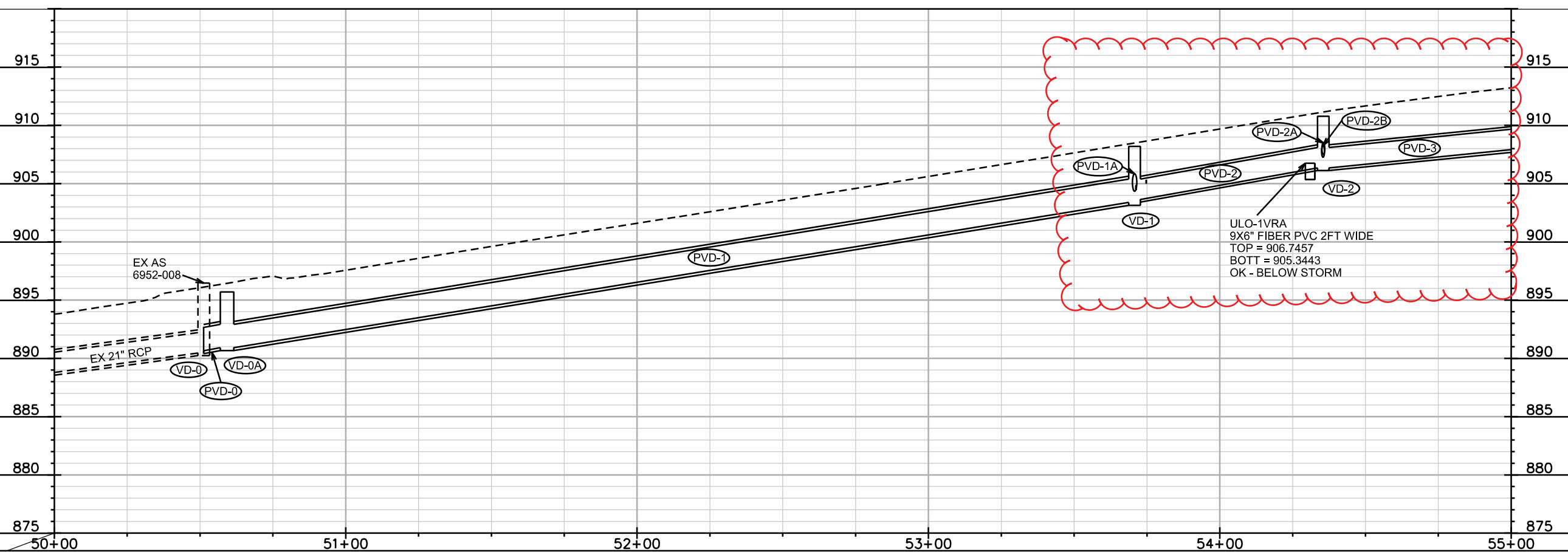
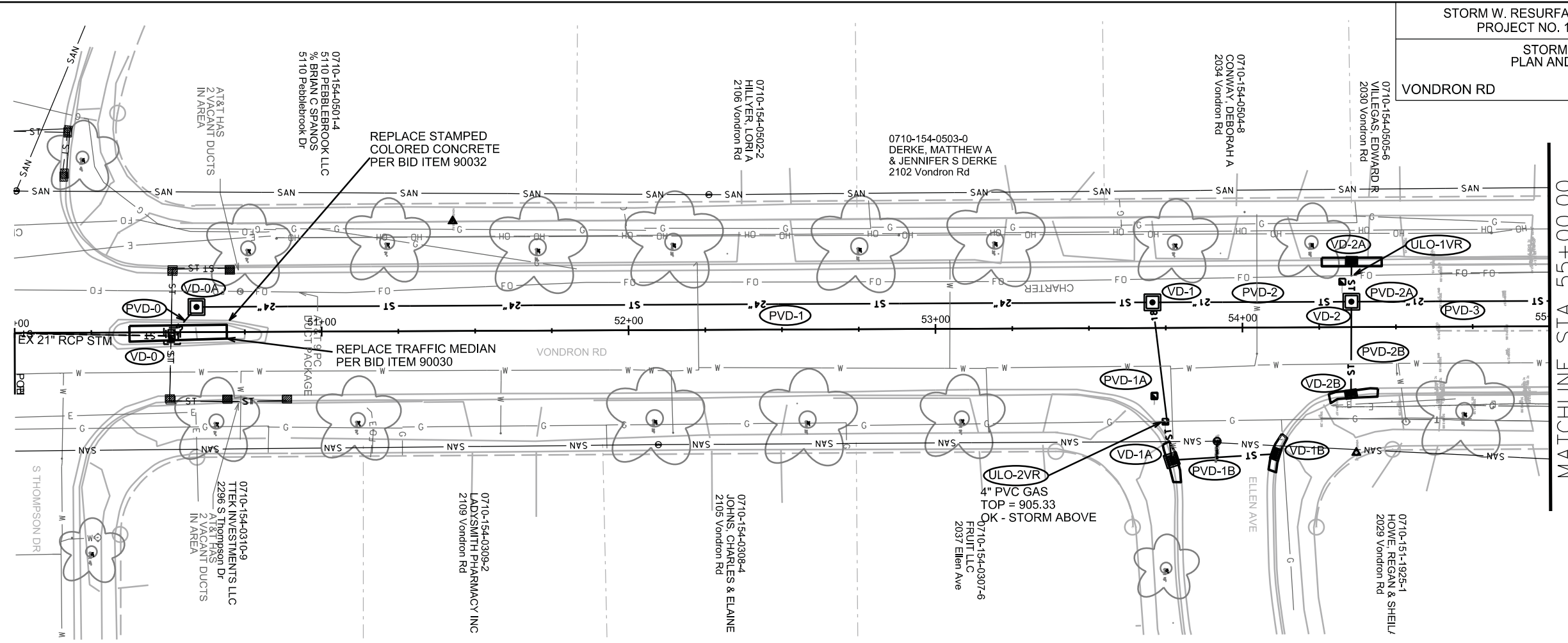
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PVR-1	VR-1	VR-2	925.00	926.63	37	35	4.66%	21"	TYPE I	-
PVR-2	VR-2	VR-3	926.88	930.05	148	144	2.20%	18"	TYPE I	-
PVR-3	VR-3	VR-4	930.30	931.60	28	24	5.42%	15"	TYPE I	-
PVR-3A	VR-3	VR-3A	930.55	931.67	27	23	4.87%	12"	TYPE I	-
PVR-4	VR-4	VR-5	931.60	939.10	225	222	3.38%	15"	TYPE I	-
PVR-5	VR-5	VR-6	939.35	942.48	180	177	1.77%	12"	TYPE I	-
PVR-5A	VR-5	VR-5A	939.35	939.60	7	5	5.00%	12"	TYPE I	-
PVR-6	VR-6	VR-7	942.48	944.59	215	212	1.00%	12"	TYPE I	-
PVR-6A	VR-6	VR-6A	942.48	942.84	7	5	7.20%	12"	TYPE I	-
PVR-6B	VR-6	VR-6B	942.48	943.00	24	21	2.48%	12"	TYPE I	-
PVR-7	VR-7	VR-7B	944.59	945.86	67	64	1.98%	12"	TYPE I	-
PVR-7A	VR-7	VR-7A	944.59	946.38	61	58	3.09%	12"	TYPE I	-
PVR-7B	VR-7B	VR-7C	945.86	946.06	34	32	0.62%	12"	TYPE I	-

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PSW-1	VR-3	SW-1	930.30	930.70	25	21	1.90%	15"	TYPE I	-
PSW-1A	SW-1	SW-1A	930.95	931.08	26	23	0.57%	12"	TYPE I	-
PSW-1B	SW-1	SW-1B	930.95	931.15	7	4	5.00%	12"	TYPE I	-
PSW-2	SW-1	SW-2	930.95	933.55	76	73	3.56%	12"	TYPE I	-
PSW-2A	SW-2	SW-2A	933.55	933.95	10	8	5.00%	12"	TYPE I	-
PSW-2B	SW-2	SW-2B	933.55	933.65	19	17	0.59%	12"	TYPE I	-
PSW-3	SW-2	SW-3	933.55	939.95	150	147	4.35%	12"	TYPE I	-
PSW-3A	SW-3	SW-3A	939.95	940.13	32	30	0.60%	12"	TYPE I	-

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; 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.

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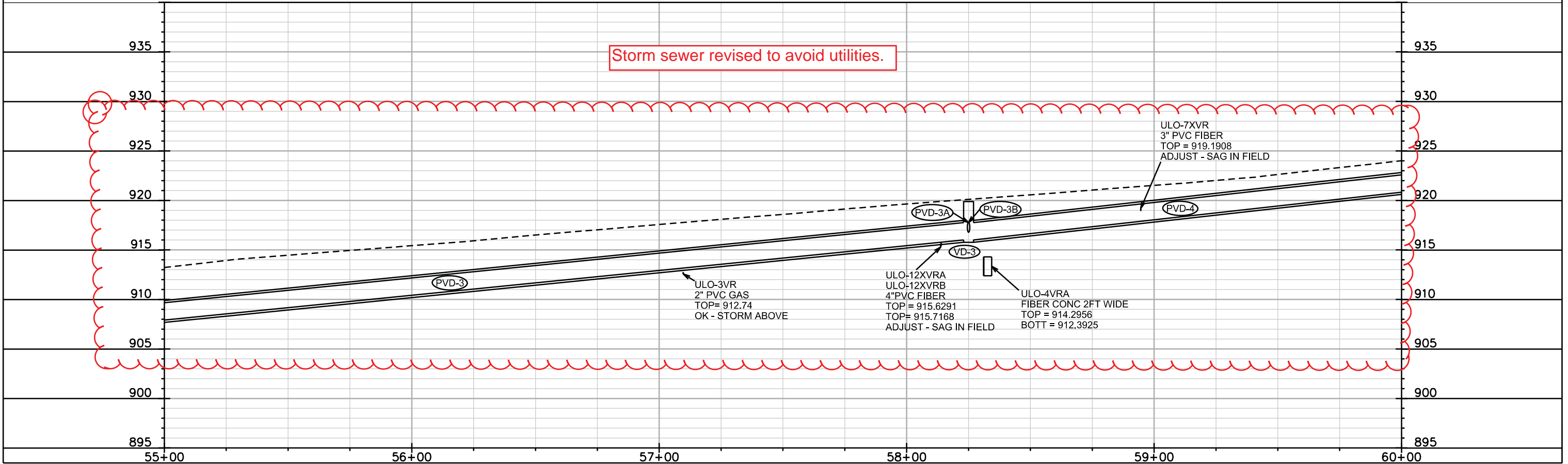
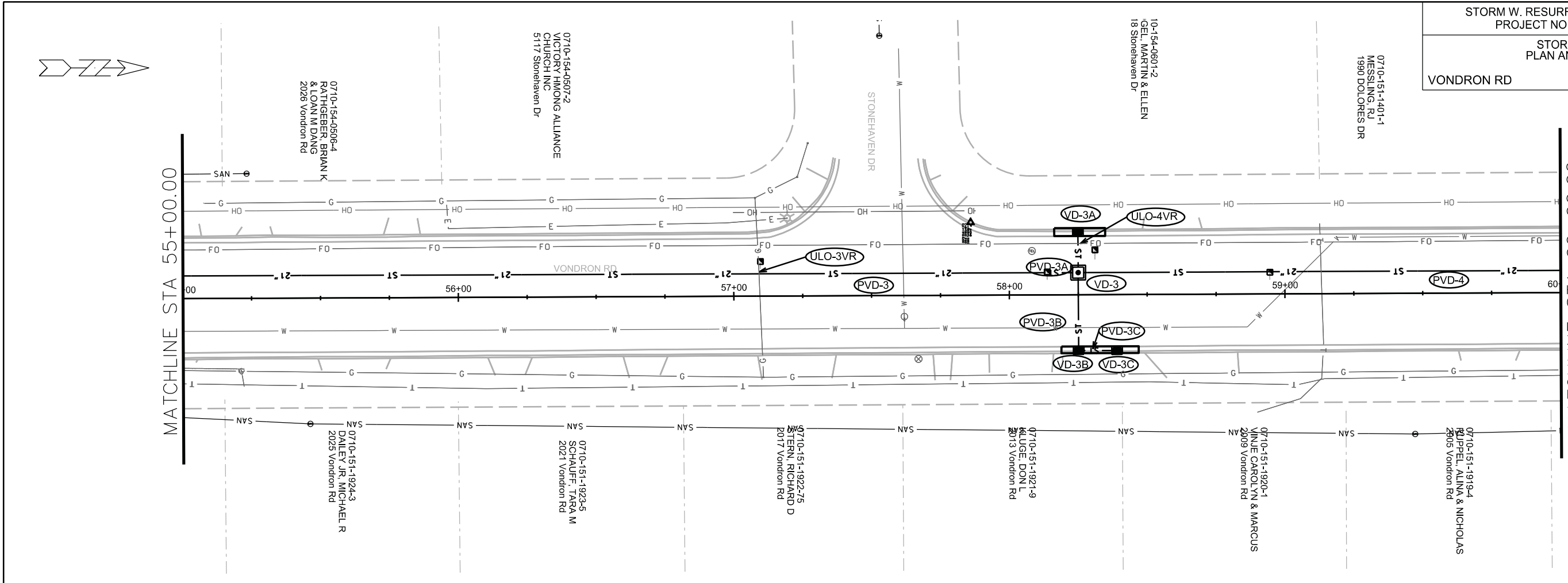
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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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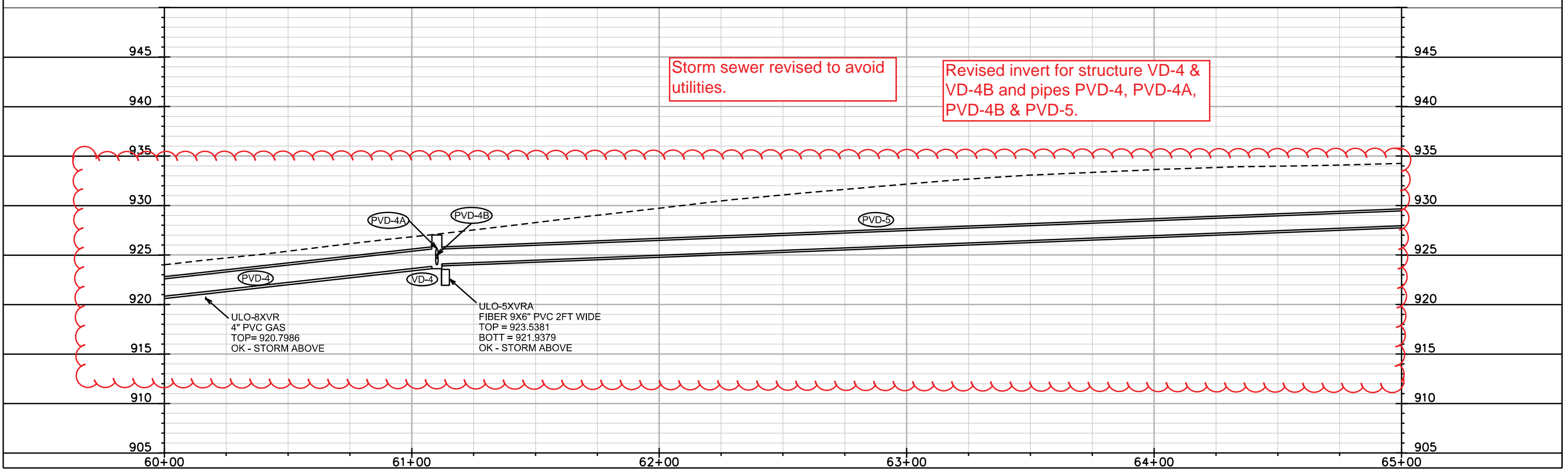
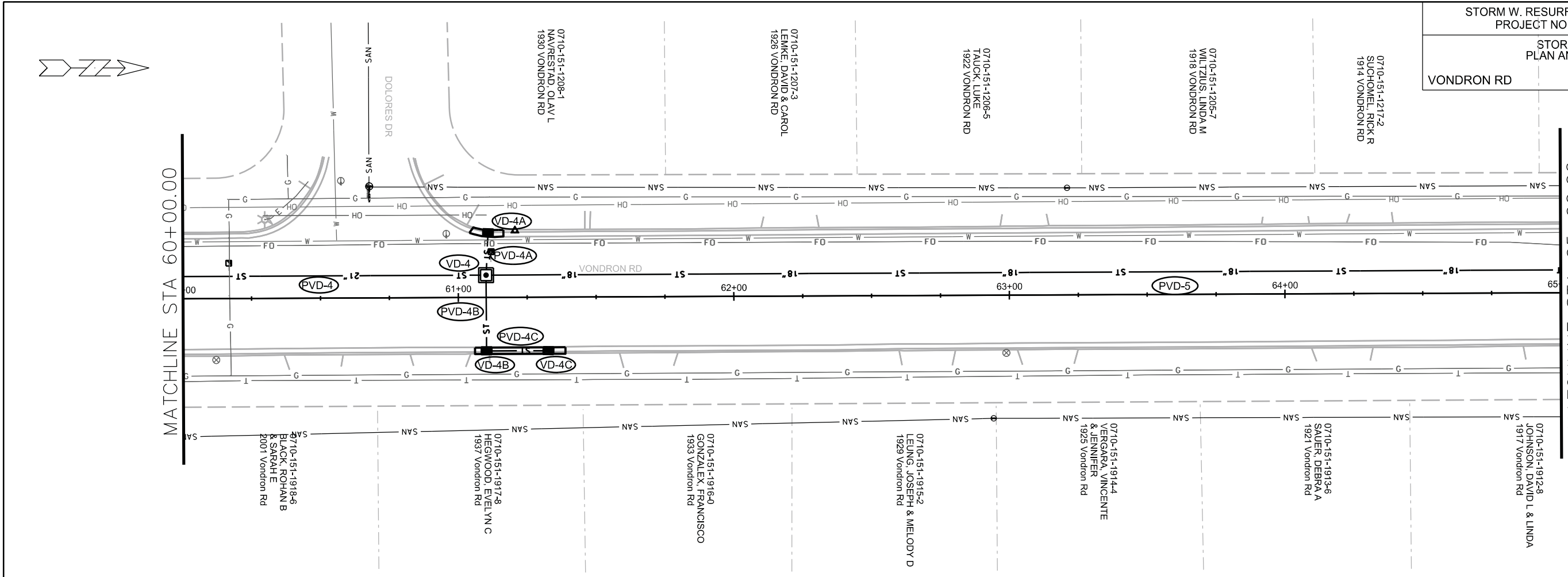
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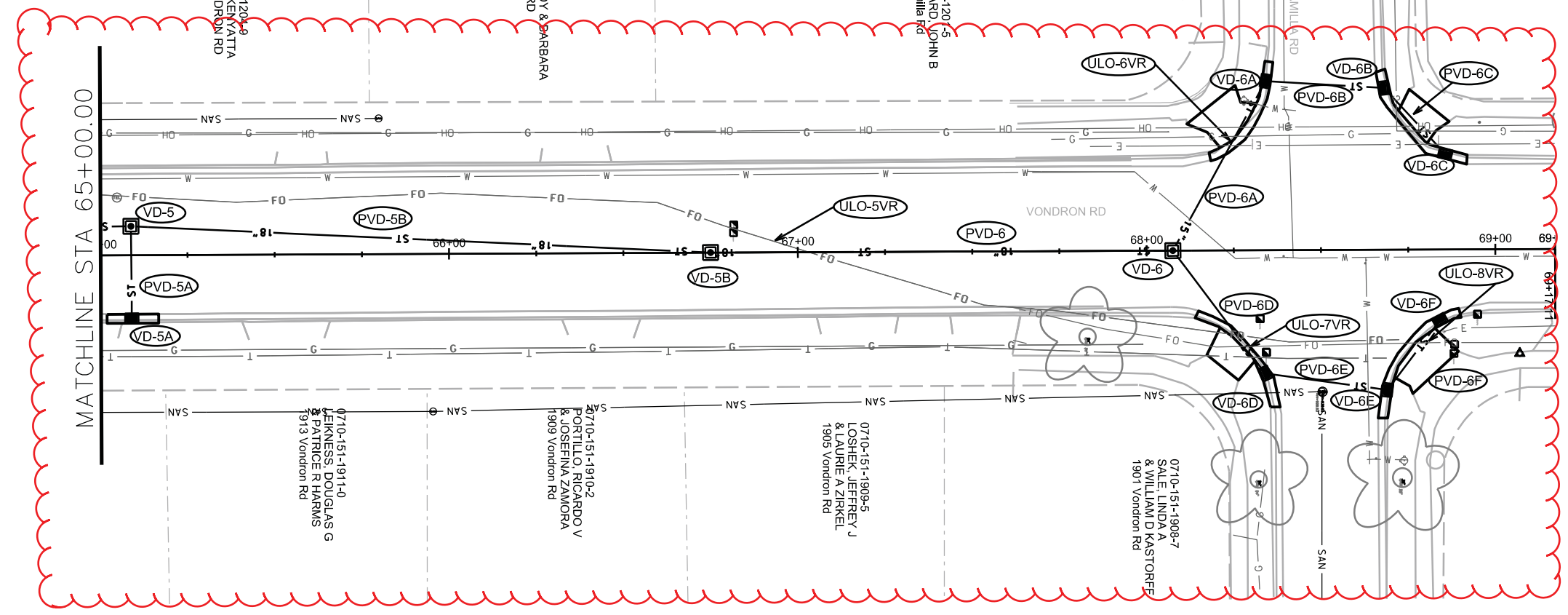
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EEA

REVISED 5/8/19
EEA





REVISED 5/2/19 EEA

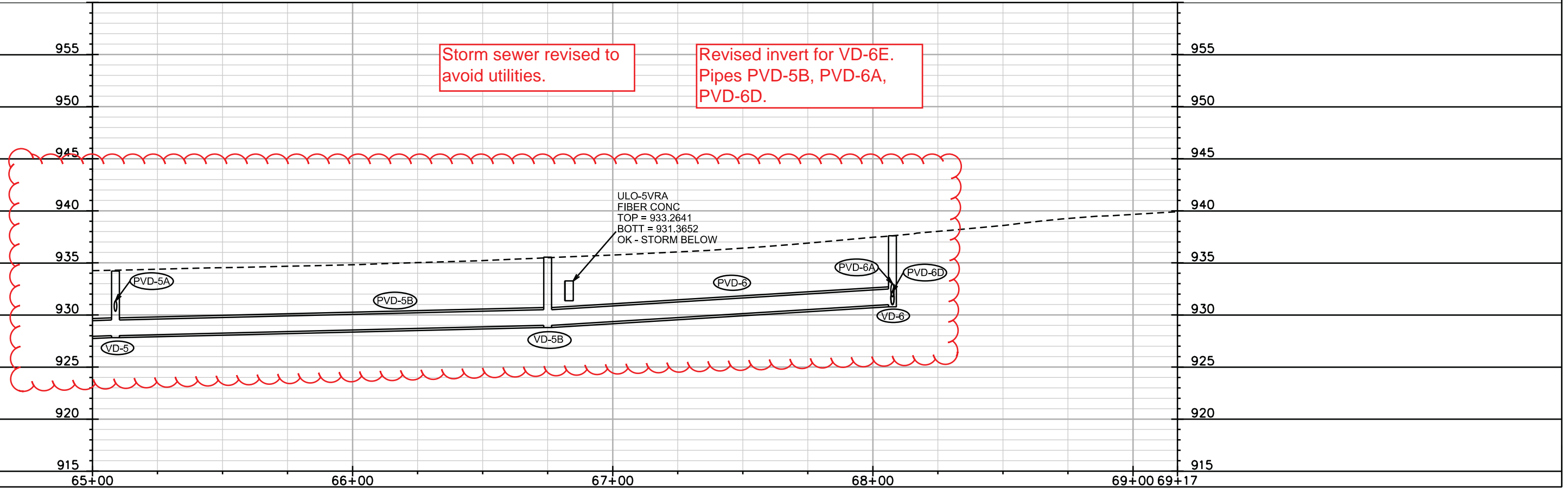
REVISED 5/8/19 EEA

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STORM SEWER SCHEDULE

* REVISED 5/2/19 EEA
 + REVISED 5/8/19 EEA

STORM WITH RESURFACING 2019	SHEET NO.
PROJECT NO. 11856	VR-5
STORM SEWER SCHEDULE	
VONDRON RD	CITY OF MADISON

PROPOSED STORM STRUCTURES

VONDRON RD

PROPOSED STORM PIPES

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
VD-0	50+50.92	RT-1.32	STORM TAP	-	890.66	-	TAP EX AS 6952-008	PVD-0	VD-0	VD-0A	890.66	890.90	12	10	2.40%	24"	TYPE I	-
VD-0A	50+59.29	LT-8.00	4X4 SAS	895.70	890.90	4.80	W/ R-1550-0054	PVD-1	VD-0A	VD-1	890.90	903.39	311	307	4.07%	24"	TYPE I	-
VD-1	53+70.74	LT-8.00	4X4 SAS	908.19	903.39	4.80	W/ R-1550-0054	* PVD-1A	VD-1	VD-1A	904.35	906.32	52	48	4.10%	18"	TYPE I	NCM
* VD-1A	53+76.78	LT-43.09	3X3 SAS	909.32	906.32	3.00	FP; W/ R-3067-7004-V	* PVD-1B	VD-1A	VD-1B	906.82	907.59	34	31	2.48%	12"	TYPE I	-
VD-1B	54+10.62	LT-41.22	H INLET	910.99	907.59	3.40	W/ R-3067-7004-V	PVD-2	VD-1	VD-2	903.64	906.35	65	61	4.44%	21"	TYPE I	-
VD-2	54+35.51	LT-8.00	4X4 SAS	910.78	906.35	4.43	W/ R-1550-0054	* PVD-2A	VD-2	VD-2A	907.50	907.56	13	10	0.60%	12"	TYPE I	NCM
* VD-2A	54+35.62	LT-21.53	H INLET	910.56	907.56	3.00	W/ R-3067-7004-V	PVD-2B	VD-2	VD-2B	907.10	907.78	30	27	2.52%	12"	TYPE I	-
VD-2B	54+35.27	RT-21.82	H INLET	911.18	907.78	3.40	W/ R-3067-7004-V	* PVD-3	VD-2	VD-3	906.35	916.00	390	386	2.50%	21"	TYPE I	-
* VD-3	58+25.00	LT-8.00	4X4 SAS	919.88	916.00	3.88	W/ R-1550-0054	* PVD-3A	VD-3	VD-3A	916.75	916.82	15	12	0.58%	12"	TYPE I	-
* VD-3A	58+24.97	LT-22.82	H INLET	919.72	916.82	2.90	FP; W/ R-3067-7004-V	* PVD-3B	VD-3	VD-3B	916.75	916.90	28	25	0.60%	12"	TYPE I	-
* VD-3B	58+25.05	RT-20.29	H INLET	919.86	916.90	2.96	FP; W/ R-3067-7004-V	+ PVD-3C	VD-3B	VD-3C	916.90	916.96	14	11	0.55%	12"	TYPE I	-
+ VD-3C	58+39.00	RT-20.36	H INLET	920.15	916.96	3.19	W/ R-3067-7004-V	+* PVD-4	VD-3	VD-4	916.00	923.85	285	281	2.79%	21"	TYPE I	-
+* VD-4	61+10.13	LT-8.00	4X4 SAS	927.02	923.85	3.17	FP; W/ R-1550-0054	+* PVD-4A	VD-4	VD-4A	924.65	924.72	15	12	0.58%	12"	TYPE I	NCM
* VD-4A	61+10.88	LT-23.47	H INLET	926.97	924.72	2.25	FP; W/ R-3067-7004-V	+* PVD-4B	VD-4	VD-4B	923.97	924.12	27	24	0.62%	12"	TYPE I	NCM
+* VD-4B	61+10.18	RT-19.38	H INLET	927.00	924.12	2.88	FP; W/ R-3067-7004-V	+ PVD-4C	VD-4B	VD-4C	924.12	924.24	22	19	0.63%	12"	TYPE I	-
VD-4C	61+32.65	RT-19.41	H INLET	927.64	924.24	3.40	W/ R-3067-7004-V	+* PVD-5	VD-4	VD-5	924.10	928.02	399	395	0.99%	18"	TYPE I	-
* VD-5	65+08.84	LT-8.00	3X3 SAS	934.21	928.02	6.19	W/ R-1550-0054	+ PVD-5A	VD-5	VD-5A	930.35	930.79	26	24	1.83%	12"	TYPE I	NCM
VD-5A	65+08.95	RT-18.06	H INLET	934.19	930.79	3.40	W/ R-3067-7004-V	+* PVD-5B	VD-5	VD-5B	928.02	929.00	166	163	0.60%	18"	TYPE I	NCM
* VD-5B	66+75.00	CL	3X3 SAS	935.54	929.00	6.54	W/ R-1550-0054	* PVD-6	VD-5B	VD-6	929.00	930.99	133	130	1.53%	18"	TYPE I	-
* VD-6	68+07.54	CL	3X3 SAS	937.60	930.99	6.61	W/ R-3067-7004-V	+* PVD-6A	VD-6	VD-6A	931.75	934.01	55	52	4.35%	15"	TYPE I	NCM
* VD-6A	68+34.32	LT-48.49	H INLET	938.87	934.01	4.86	W/ R-3067-7004-V	* PVD-6B	VD-6A	VD-6B	934.26	934.46	34	32	0.63%	12"	TYPE I	-
* VD-6B	68+68.24	LT-46.38	H INLET	939.51	934.46	5.05	W/ R-3067-7004-V	* PVD-6C	VD-6B	VD-6C	934.46	935.00	26	22	2.45%	12"	TYPE I	-
* VD-6C	68+85.72	LT-27.41	H INLET	939.59	935.00	4.59	FP; W/ R-3067-7004-V	+* PVD-6D	VD-6	VD-6D	930.99	931.23	44	41	0.59%	15"	TYPE I	NCM
* VD-6D	68+33.86	RT-35.28	H INLET	938.26	931.23	7.03	W/ R-3067-7004-V	* PVD-6E	VD-6D	VD-6E	931.48	933.65	35	33	6.58%	12"	TYPE I	-
+* VD-6E	68+68.93	RT-40.18	H INLET	939.07	933.65	5.42	W/ R-3067-7004-V	* PVD-6F	VD-6E	VD-6F	933.65	933.79	25	22	0.64%	12"	TYPE I	-
* VD-6F	68+84.05	RT-20.26	H INLET	939.96	933.79	6.17	W/ R-3067-7004-V											

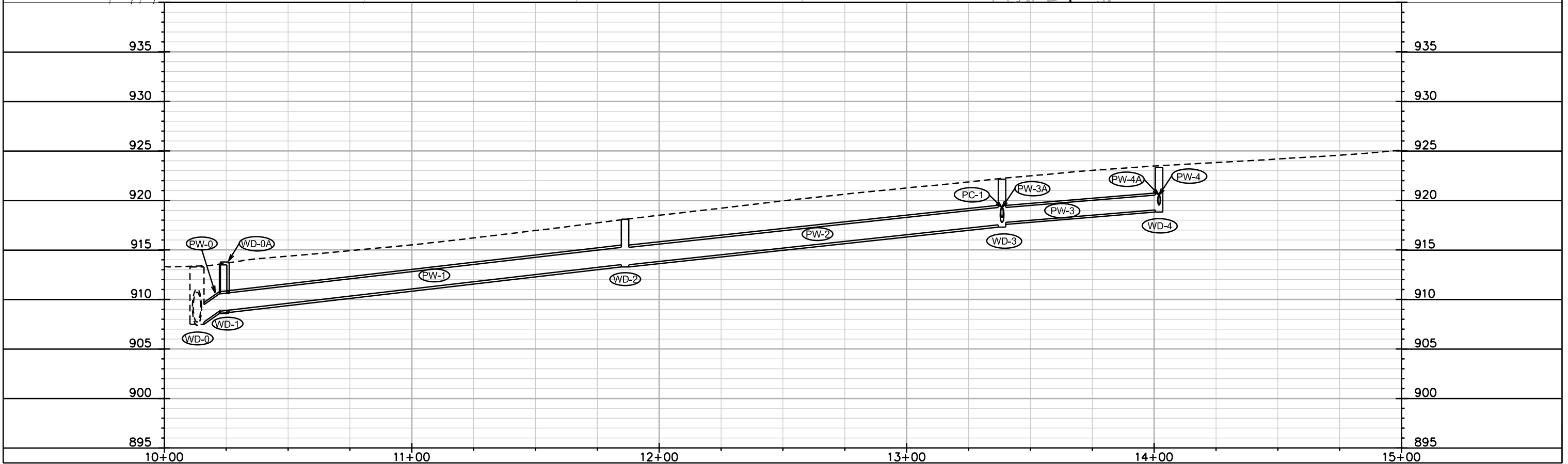
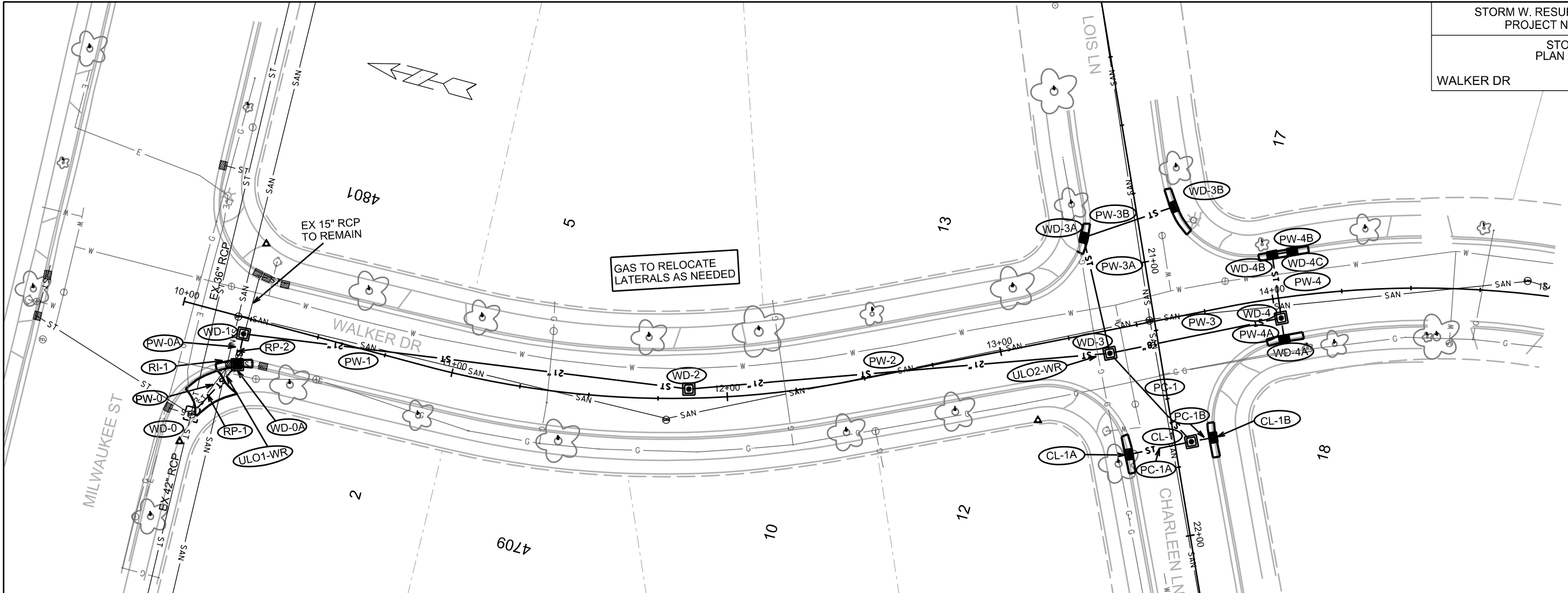
ULO SCHEDULE

VONDRON RD

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1VR	54+35.38	LT-17.11	FO	-
ULO-2VR	53+75.47	RT-30.31	GAS	-
ULO-3VR	57+08.98	LT-8.22	GAS	-
ULO-4VR	58+25.03	LT-18.86	FO	-
ULO-5VR	66+93.14	LT-3.42	FO	-
ULO-6VR	68+24.47	LT-30.95	ELEC	-
ULO-7VR	68+28.95	RT-27.47	FO	-
ULO-8VR	68+80.78	RT-26.03	FO	-

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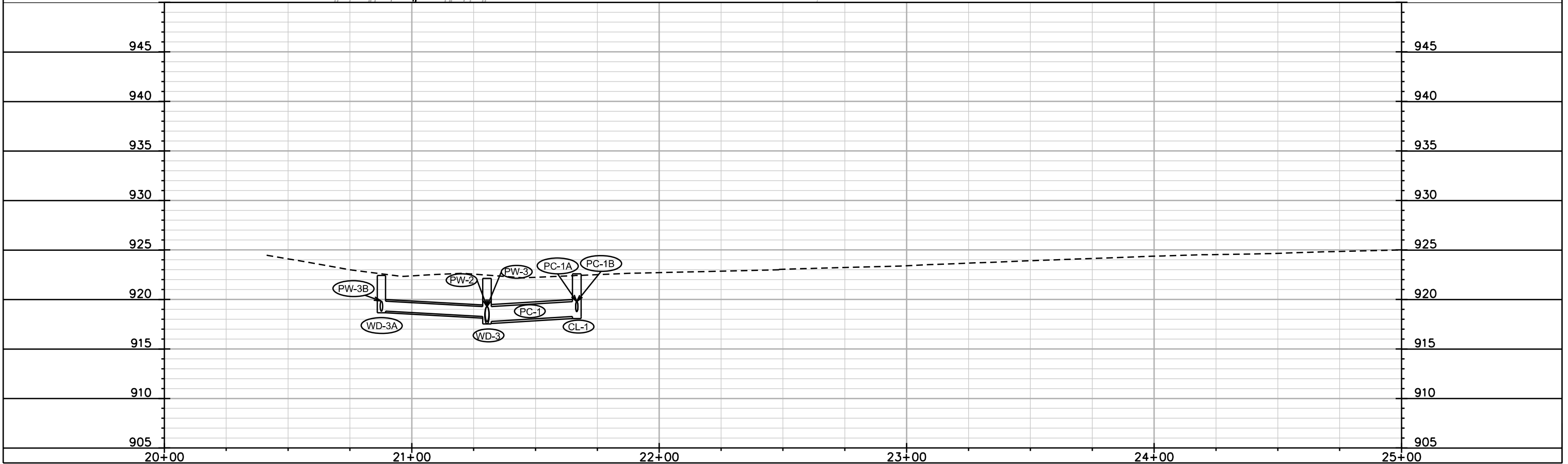
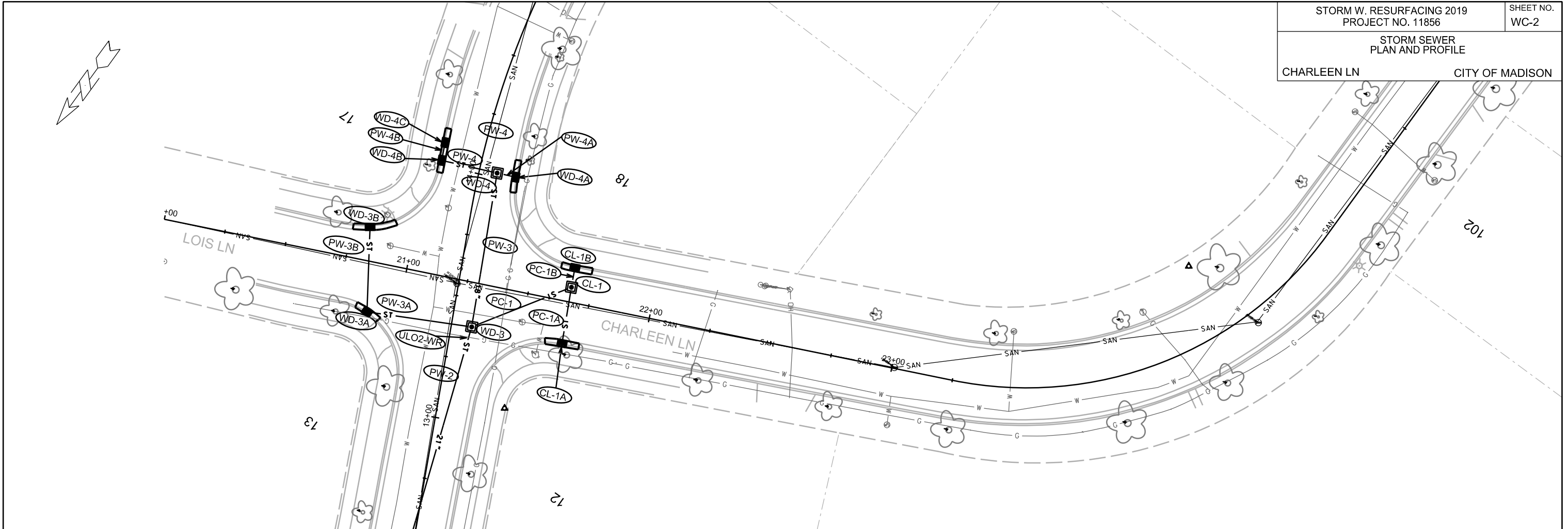
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE

CHARLEEN LN

CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

STORM WITH RESURFACING 2019		SHEET NO.
PROJECT NO. 11856		WC-3
STORM SEWER SCHEDULE		
WALKER DR	CITY OF MADISON	

PROPOSED STORM STRUCTURES

WALKER DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
WD-0	10+13.20	RT-38.29	STORM TAP	-	907.72	-	TAP EX AS 6840-001
WD-0A	10+24.32	RT-17.00	3X3 SAS	913.78	908.84	4.94	W/ R-3067-7004-V
WD-1	10+23.77	RT-5.73	3X3 SAS	913.49	908.89	4.60	W/ R-1550-0054
WD-2	11+86.18	LT-3.32	3X3 SAS	918.11	913.51	4.60	W/ R-1550-0054
WD-3	13+38.54	RT-8.21	3X3 SAS	922.13	917.53	4.60	W/ R-1550-0054
WD-4	14+01.60	RT-7.68	3X3 SAS	923.33	919.03	4.30	W/ R-1550-0054
WD-4A	14+01.24	RT-15.38	H INLET	923.56	919.76	3.80	W/ R-3067-7004-V
WD-4B	14+02.82	LT-15.28	H INLET	923.52	920.22	3.30	W/ R-3067-7004-V
WD-4C	14+10.14	LT-15.10	H INLET	923.61	920.31	3.30	W/ R-3067-7004-V

LOIS LN

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
WD-3A	20+87.71	RT-20.29	H INLET	922.42	918.82	3.60	W/ R-3067-7004-V
WD-3B	20+82.17	LT-13.61	H INLET	923.55	919.95	3.60	W/ R-3067-7004-V

CHARLEEN LN

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
CL-1	21+66.68	LT-6.00	3X3 SAS	922.58	918.28	4.30	W/ R-1550-0054
CL-1A	21+67.51	RT-16.99	H INLET	922.27	918.97	3.30	W/ R-3067-7004-V
CL-1B	21+66.48	LT-14.04	H INLET	923.14	919.14	4.00	W/ R-3067-7004-V

STORM STRUCTURE REMOVALS

WALKER DR

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
RI-1	IN 6840-002	10+24.32	RT-17.00	H INLET	-

ULO SCHEDULE

WALKER DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO1-WR	10+21.75	RT-21.69	GAS	-
ULO2-WR	13+34.06	RT-7.51	GAS	-

SPECIFIC NOTES

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
PW-0	WD-0	WD-0A	907.72	908.84	24	19	5.89%	21"	TYPE I	-
PW-0A	WD-0A	WD-1	908.84	908.89	11	8	0.62%	21"	TYPE I	-
PW-1	WD-1	WD-2	908.89	913.51	162	159	2.91%	21"	TYPE I	-
PW-2	WD-2	WD-3	913.51	917.53	152	149	2.70%	21"	TYPE I	-
PW-3A	WD-3	WD-3A	918.28	918.82	43	40	1.35%	12"	TYPE I	-
PW-3B	WD-3A	WD-3B	918.82	919.95	34	32	3.53%	12"	TYPE I	-
PW-3	WD-3	WD-4	917.78	919.03	63	60	2.08%	18"	TYPE I	-
PW-4	WD-4	WD-4B	919.53	920.22	23	20	3.45%	12"	TYPE I	-
PW-4A	WD-4	WD-4A	919.53	919.76	8	5	4.60%	12"	TYPE I	-
PW-4B	WD-4B	WD-4C	920.22	920.31	7	4	2.25%	12"	TYPE I	-

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
PC-1	WD-3	CL-1	917.78	918.28	43	40	1.25%	18"	TYPE I	-
PC-1A	CL-1	CL-1A	918.78	918.97	23	20	0.95%	12"	TYPE I	-
PC-1B	CL-1	CL-1B	918.78	919.14	8	5	7.20%	12"	TYPE I	-

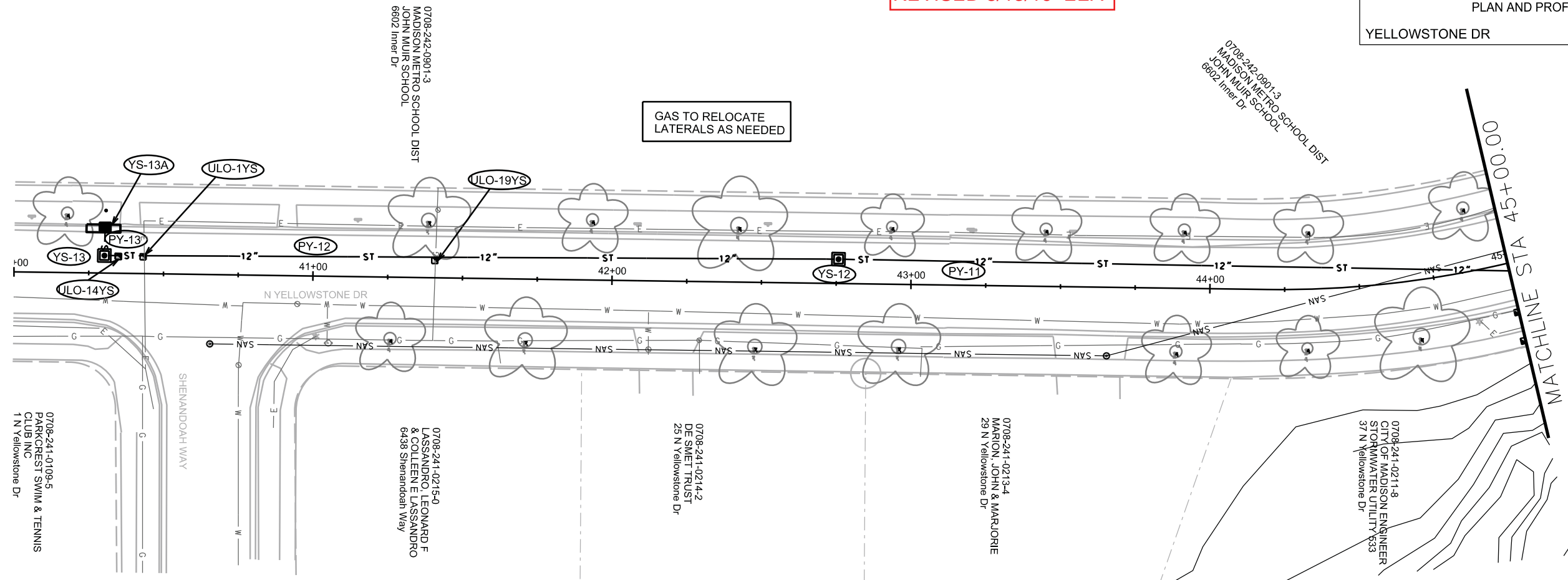
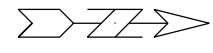
STORM PIPE REMOVALS

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	WD-0	WD-0A	22	15"	RCP	N	-
RP-2	WD-0A	WD-1	11	15"	RCP	N	-

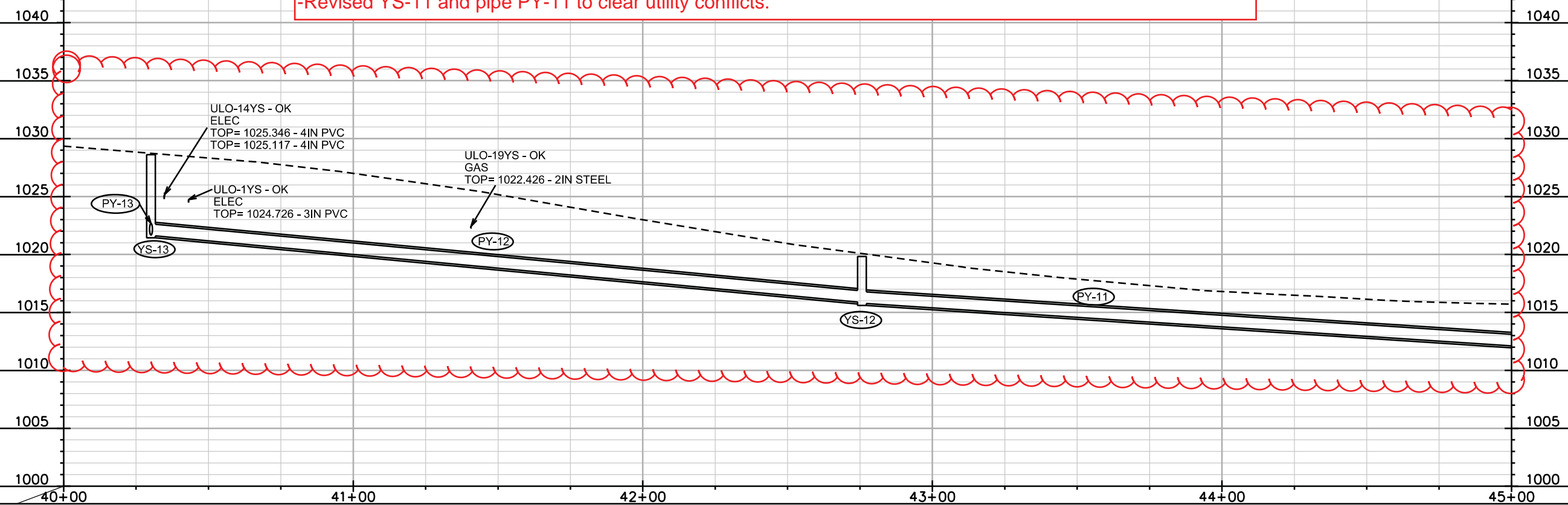
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REVISED 8/13/19 EEA



-Revised YS-13A to match existing invert for private storm, therefore lowering YS-13 and pipes PY-12 & PY-13.
-Revised YS-11 and pipe PY-11 to clear utility conflicts.



PLOT SCALE:

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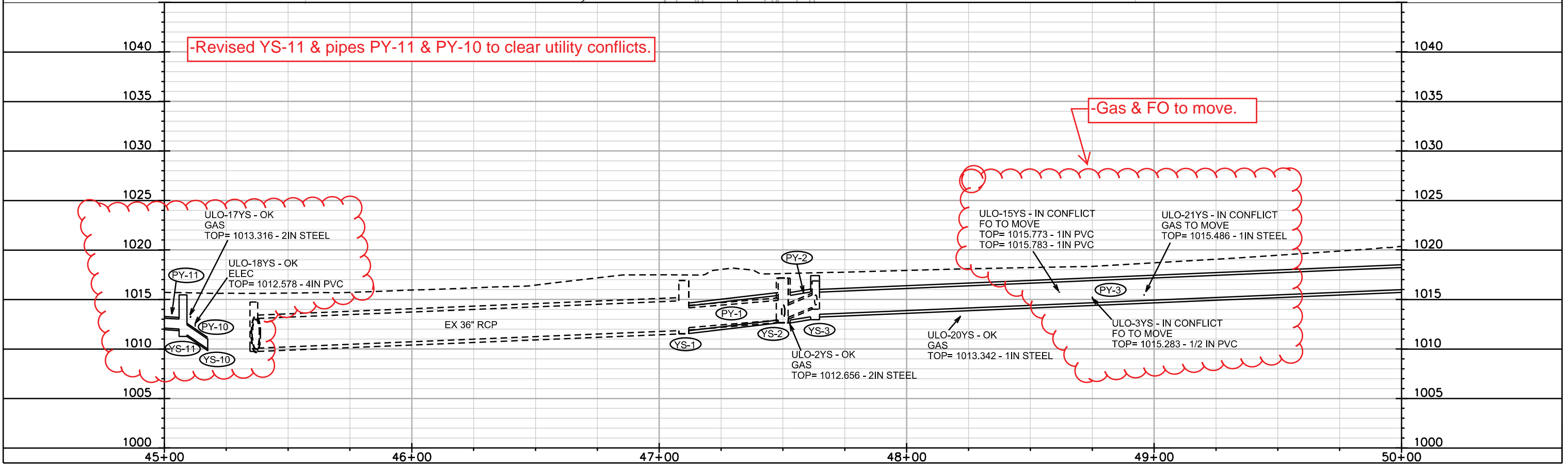
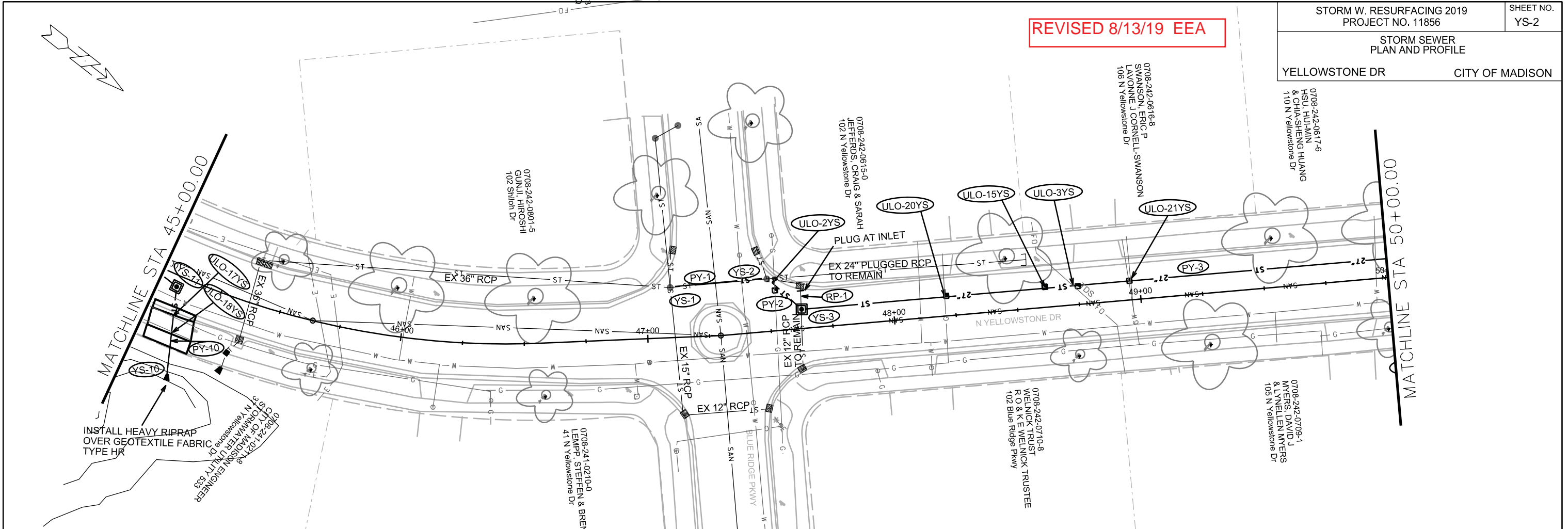
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER
PLAN AND PROFILE

YELLOWSTONE DR CITY OF MADISON

REVISED 8/13/19 EEA



-Revised YS-11 & pipes PY-11 & PY-10 to clear utility conflicts.

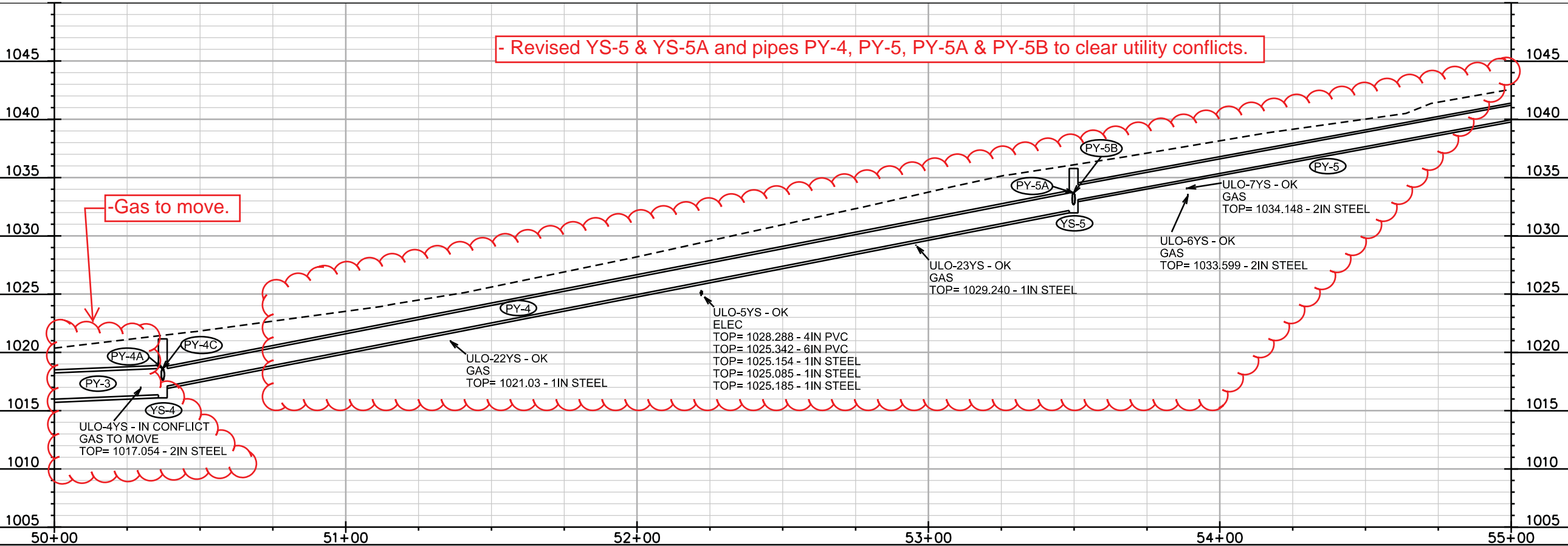
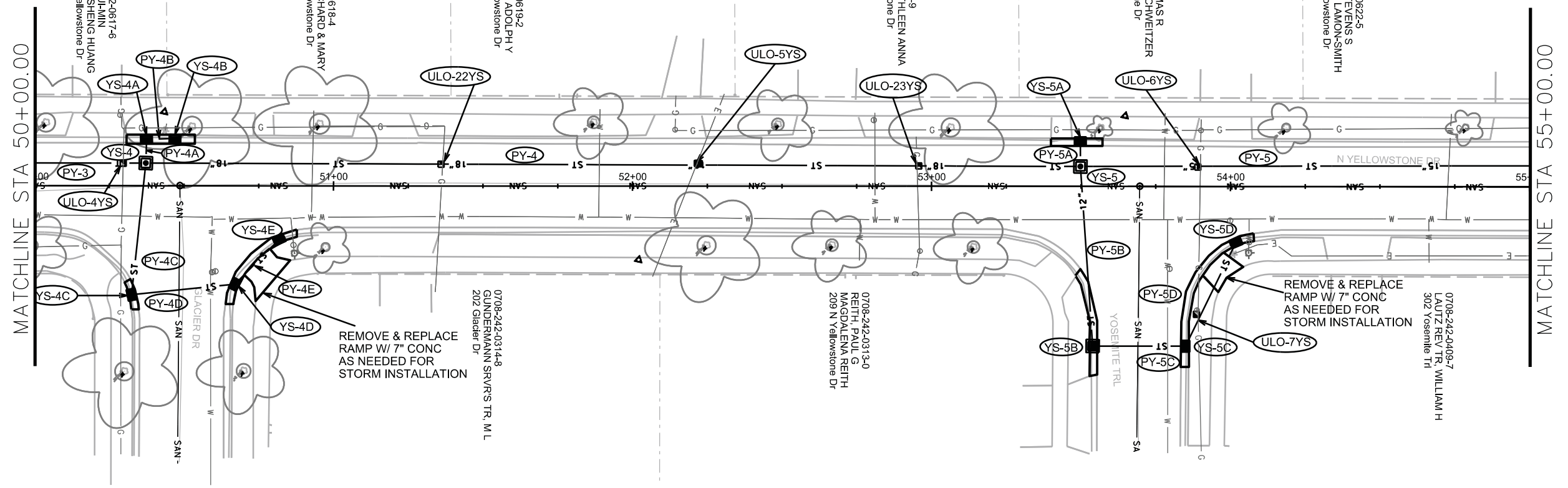
-Gas & FO to move.

PLOT SCALE: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 8/13/19 EEA



- Revised YS-5 & YS-5A and pipes PY-4, PY-5, PY-5A & PY-5B to clear utility conflicts.

- Gas to move.

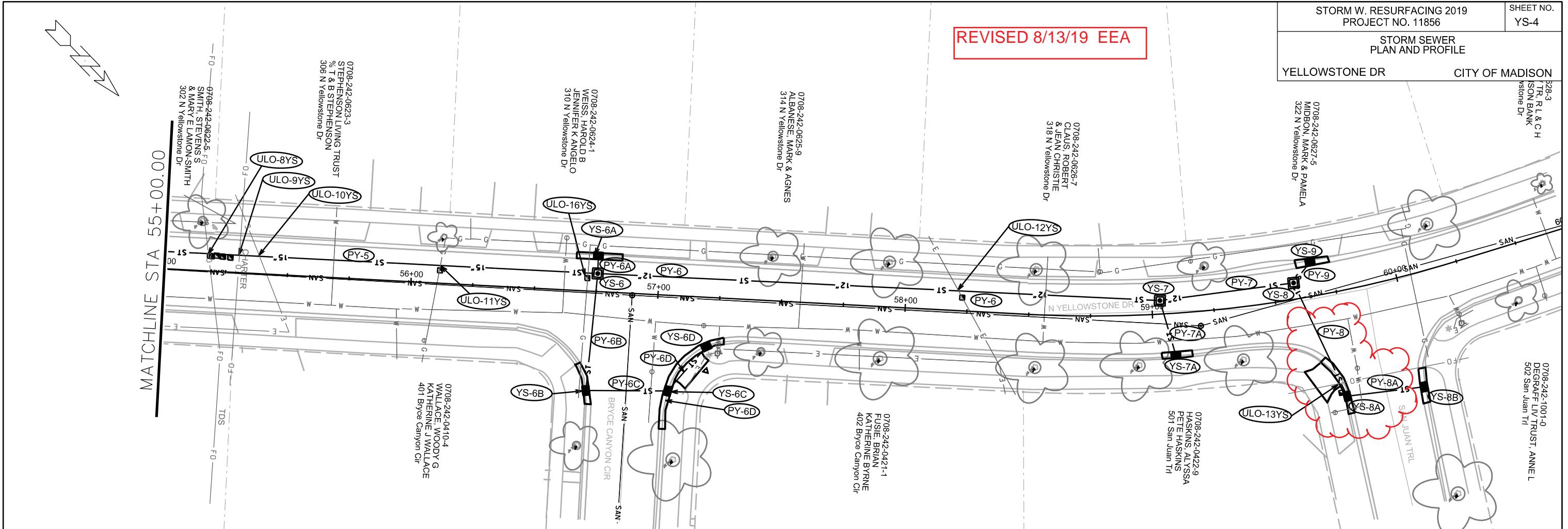
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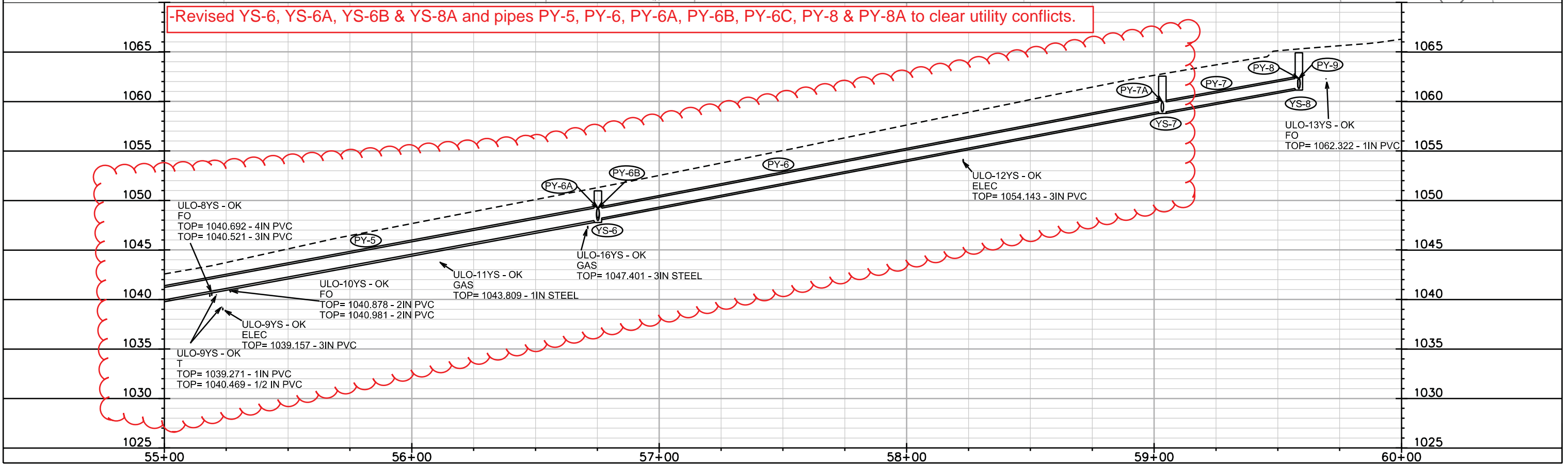
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 8/13/19 EEA



-Revised YS-6, YS-6A, YS-6B & YS-8A and pipes PY-5, PY-6, PY-6A, PY-6B, PY-6C, PY-8 & PY-8A to clear utility conflicts.



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

* REVISED 8/13/19 EEA

STORM WITH RESURFACING 2019	SHEET NO.
PROJECT NO. 11856	YS-5
STORM SEWER SCHEDULE	
YELLOWSTONE DRIVE	CITY OF MADISON

PROPOSED STORM STRUCTURES

YELLOWSTONE DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
YS-1	47+10.00	LT-20.48	STORM TAP	-	1011.85	-	TAP EX AS 2852-008
YS-2	47+50.00	LT-21.50	STORM TAP	-	1012.91	-	TAP EX AS 2852-007
YS-3	47+62.99	LT-7.73	3X3 SAS	1017.40	1013.24	4.16	FP; W/ R-1550-0054; (2)
YS-4	50+37.22	LT-7.63	3X3 SAS	1021.16	1016.36	4.80	W/ R-1550-0054
YS-4A	50+37.45	LT-15.63	H INLET	1021.28	1017.88	3.40	W/ R-3067-7004-V
YS-4B	50+46.97	LT-15.80	H INLET	1021.60	1018.20	3.40	W/ R-3067-7004-V
YS-4C	50+32.47	RT-32.47	H INLET	1021.52	1018.19	3.33	W/ R-3067-7004-V
YS-4D	50+67.00	RT-32.87	H INLET	1022.35	1019.02	3.33	W/ R-3067-7004-V
YS-4E	50+81.83	RT-17.91	H INLET	1022.54	1019.21	3.33	W/ R-3067-7004-V
* YS-5	53+49.82	LT-6.66	3X3 SAS	1035.78	1032.18	3.60	FP; W/ R-1550-0054
* YS-5A	53+49.75	LT-15.01	H INLET	1035.88	1032.71	3.17	W/ R-3067-7004-V
YS-5B	53+53.92	RT-53.39	H INLET	1036.77	1033.17	3.60	W/ R-3067-7004-V
YS-5C	53+84.97	RT-53.41	H INLET	1037.72	1034.12	3.60	W/ R-3067-7004-V
YS-5D	54+01.82	RT-18.72	H INLET	1037.79	1034.39	3.40	W/ R-3067-7004-V
* YS-6	56+75.22	LT-7.29	3X3 SAS	1050.96	1047.96	3.00	W/ R-1550-0054
* YS-6A	56+75.12	LT-14.52	H INLET	1051.25	1048.24	3.01	W/ R-3067-7004-V
* YS-6B	56+72.92	RT-40.21	H INLET	1051.47	1048.19	3.28	FP; W/ R-3067-7004-V
YS-6C	57+05.89	RT-38.63	H INLET	1052.64	1049.04	3.60	W/ R-3067-7004-V
YS-6D	57+20.63	RT-19.97	H INLET	1053.40	1049.80	3.60	W/ R-3067-7004-V
YS-7	59+03.35	LT-5.50	3X3 SAS	1062.55	1058.95	3.60	W/ R-1550-0054
YS-7A	59+08.42	LT-17.01	H INLET	1063.08	1059.48	3.60	W/ R-3067-7004-V
YS-8	59+58.52	LT-6.62	3X3 SAS	1064.91	1061.31	3.60	W/ R-1550-0054
* YS-8A	59+71.30	RT-42.31	H INLET	1065.58	1062.58	3.00	W/ R-3067-7004-V
YS-8B	60+00.00	RT-45.40	H INLET	1066.18	1062.78	3.40	W/ R-3067-7004-V
YS-9	59+66.68	LT-13.68	H INLET	1064.72	1061.35	3.37	W/ R-3067-7004-V
YS-10	45+18.05	RT-34.29	12" RCP AE	-	1010.00	-	W/ GATE
* YS-11	45+07.55	RT-4.57	3X3 SAS	1015.46	1011.96	3.50	W/ R-1550-0054
YS-12	42+75.66	LT-8.10	3X3 SAS	1019.82	1015.82	4.00	W/ R-1550-0054
* YS-13	40+36.16	LT-5.88	3X3 SAS	1028.61	1021.67	6.94	W/ R-1550-0054
* YS-13A	40+30.28	LT-15.50	H INLET	1028.57	1021.72	6.85	W/ R-3067-7004-V; (1)

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
PY-1	YS-1	YS-2	1011.85	1012.91	39	35	3.03%	30"	TYPE I	-
PY-2	YS-2	YS-3	1012.91	1013.24	19	14	2.36%	30"	TYPE I	-
PY-3	YS-3	YS-4	1013.49	1016.36	274	271	1.06%	27"	TYPE I	-
* PY-4	YS-4	YS-5	1017.11	1032.18	317	314	4.80%	18"	TYPE I	-
PY-4A	YS-4	YS-4A	1017.61	1017.88	8	6	4.50%	12"	TYPE I	-
PY-4B	YS-4A	YS-4B	1017.88	1018.20	10	7	4.57%	12"	TYPE I	-
PY-4C	YS-4	YS-4C	1017.61	1018.19	44	41	1.41%	12"	TYPE I	-
PY-4D	YS-4C	YS-4D	1018.19	1019.02	35	33	2.52%	12"	TYPE I	-
PY-4E	YS-4D	YS-4E	1019.02	1019.21	21	18	1.06%	12"	TYPE I	-
* PY-5	YS-5	YS-6	1033.11	1047.96	321	318	4.67%	15"	TYPE I	-
* PY-5A	YS-5	YS-5A	1032.68	1032.71	9	6	0.50%	12"	TYPE I	-
* PY-5B	YS-5	YS-5B	1032.68	1033.17	60	57	0.86%	12"	TYPE I	-
PY-5C	YS-5B	YS-5C	1033.17	1034.12	31	29	3.28%	12"	TYPE I	-
PY-5D	YS-5C	YS-5D	1034.12	1034.39	39	35	0.77%	12"	TYPE I	-
* PY-6	YS-6	YS-7	1048.21	1058.95	227	224	4.79%	12"	TYPE I	-
* PY-6A	YS-6	YS-6A	1048.21	1048.24	7	5	0.60%	12"	TYPE I	-
* PY-6B	YS-6	YS-6B	1047.96	1048.19	48	45	0.51%	15"	TYPE I	-
* PY-6C	YS-6B	YS-6C	1048.44	1049.04	33	31	1.94%	12"	TYPE I	-
PY-6D	YS-6C	YS-6D	1049.04	1049.80	24	20	3.80%	12"	TYPE I	-
PY-7	YS-7	YS-8	1058.95	1061.31	55	52	4.54%	12"	TYPE I	-
PY-7A	YS-7	YS-7A	1058.95	1059.48	23	21	2.52%	12"	TYPE I	-
* PY-8	YS-8	YS-8A	1061.31	1062.58	51	48	2.65%	12"	TYPE I	-
* PY-8A	YS-8A	YS-8B	1062.58	1062.78	31	29	0.69%	12"	TYPE I	-
PY-9	YS-8	YS-9	1061.31	1061.35	11	7	0.57%	12"	TYPE I	-
* PY-10	YS-10	YS-11	1010.00	1011.96	38	37	5.30%	12"	TYPE I	-
* PY-11	YS-11	YS-12	1011.96	1015.82	232	229	1.69%	12"	TYPE I	-
* PY-12	YS-12	YS-13	1015.82	1021.67	246	243	2.41%	12"	TYPE I	-
* PY-13	YS-13	YS-13A	1021.67	1021.72	10	7	0.71%	12"	TYPE I	-

ULO SCHEDULE

YELLOWSTONE DR

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1YS	40+43.67	LT-5.88	3" PVC ELEC	TOP= 1024.726 - OK
* ULO-2YS	47+52.64	LT-18.91	2" STEEL GAS	TOP= 1012.656 - OK
* ULO-3YS	48+73.00	LT-7.65	1/2" PVC FO	TOP= 1015.283 - IN CONFLICT, FO TO MOVE
* ULO-4YS	50+29.76	LT-7.72	2" STEEL GAS	TOP= 1017.054 - IN CONFLICT, GAS TO MOVE
* ULO-5YS	52+21.47	LT-7.00	4" PVC, 6" PVC, 1" PVC ELEC	TOP=1025.288, 1025.342, 1025.154, 1025.085, 1025.185 - OK
* ULO-6YS	53+90.08	LT-6.78	2" STEEL GAS	TOP= 1033.599 - OK
* ULO-7YS	53+89.00	RT-44.45	2" STEEL GAS	TOP= 1034.148 - OK
* ULO-8YS	55+17.44	LT-7.00	4" PVC, 3" PVC FO	TOP= 1040.692, 1040.521 - OK
* ULO-9YS	55+30.00	LT-7.30	3" PVC, 1" PVC, 1/2" PVC FO	TOP= 1039.157, 1039.271, 1040.469 - OK
* ULO-10YS	55+38.00	LT-6.38	2" PVC ELEC	TOP= 1040.878, 1040.981 - OK
* ULO-11YS	56+11.66	LT-6.00	1" STEEL GAS	TOP= 1043.809 - OK
* ULO-12YS	58+20.89	LT-8.29	3" PVC ELEC	TOP= 1054.143 - OK
* ULO-13YS	59+69.57	LT-36.58	1" PVC FO	TOP= 1062.322 - OK
* ULO-14YS			4" PVC FO	TOP= 1025.346, 1025.117 - OK
* ULO-15YS			1" PVC FO	TOP= 1015.773, 1015.783 - IN CONFLICT, FO TO MOVE
* ULO-16YS			3" STEEL GAS	TOP= 1047.401 - OK
* ULO-17YS			2" STEEL GAS	TOP= 1013.316 - OK
* ULO-18YS			4" PVC ELEC	TOP= 1012.578 - OK
* ULO-19YS			2" STEEL GAS	TOP= 1022.426 - OK
* ULO-20YS			1" STEEL GAS	TOP= 1013.342 - OK
* ULO-21YS			1" STEEL GAS	TOP= 1015.486 - IN CONFLICT, GAS TO MOVE
* ULO-22YS			1" STEEL GAS	TOP= 1021.023 - OK
* ULO-23YS			1" STEEL GAS	TOP= 1029.240 - OK

STORM PIPE REMOVALS

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	EX IN 2852-006	YS-3	10	12"	RCP	Y	PLUG AT INLET

SPECIFIC NOTES

- (1) CONNECT EXISTING PRIVATE STORM
- (2) RECONNECT EXISTING 12" PIPE

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; 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.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.