

Madison, Wisconsin

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CITY OF MADISON

CITY ENGINEERING DIVISION

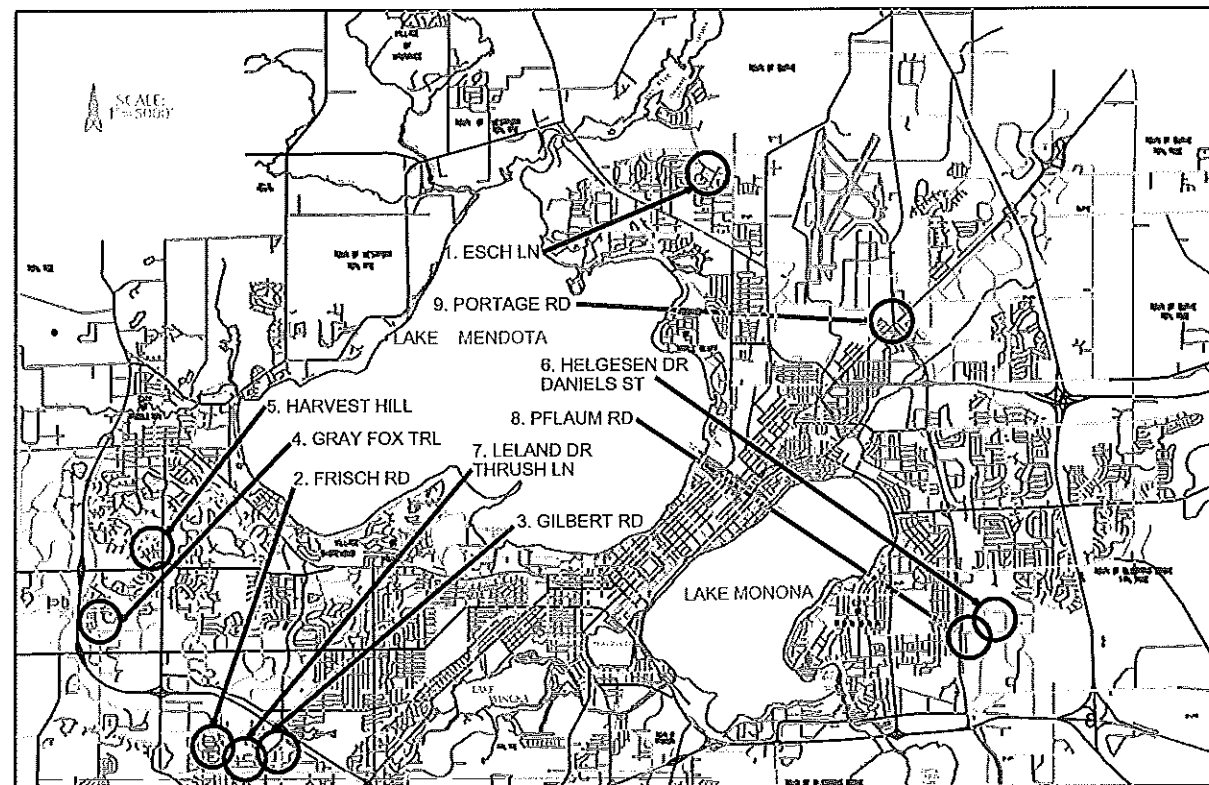
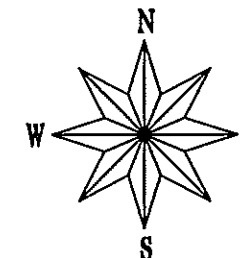
DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

STORM SEWER WITH RESURFACING 2014

CITY PROJECT NO. 53W1699

CONTRACT NO. 7232



CONSTRUCTION PROJECT LOCATIONS

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	☠

PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 25, 2014

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

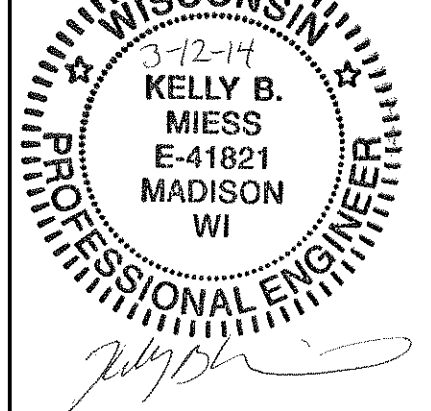
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Christy Pech 3-13-14
City Engineer Date

STORM SEWER
DESIGNED BY:



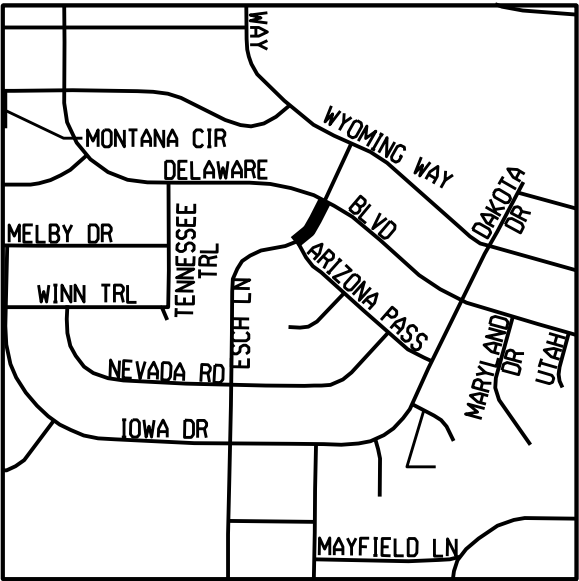
WATER
DESIGN:



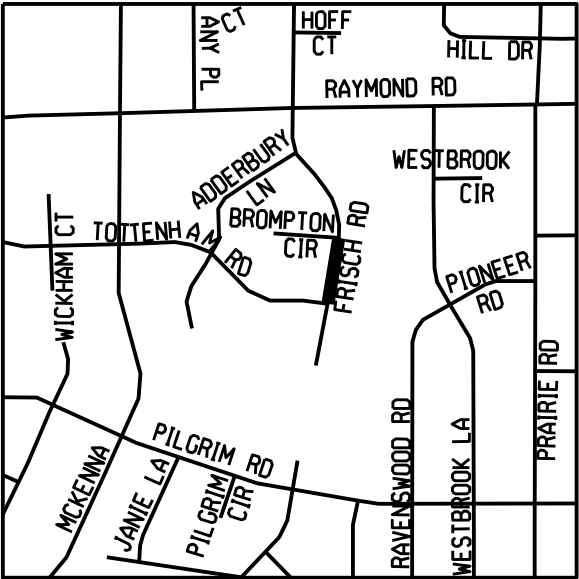
NOTES:

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

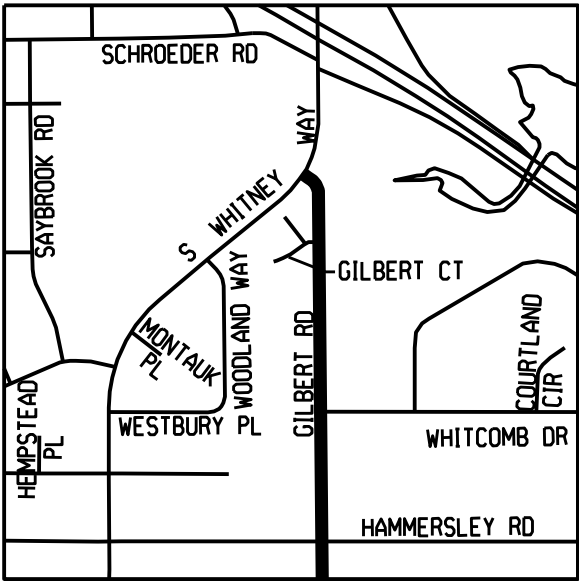
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS
SHALL HAVE A MAXIMUM SLOPE OF 1" PER
12". SIDEWALK AND CURB RAMPS SHALL BE
CONSTRUCTED WITH A SIDE SLOPE OF 2.00%.
SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL
SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL
SLOPE OF 5.00% EXCEPT WHERE STREET GRADES
EXCEED 5.00%.



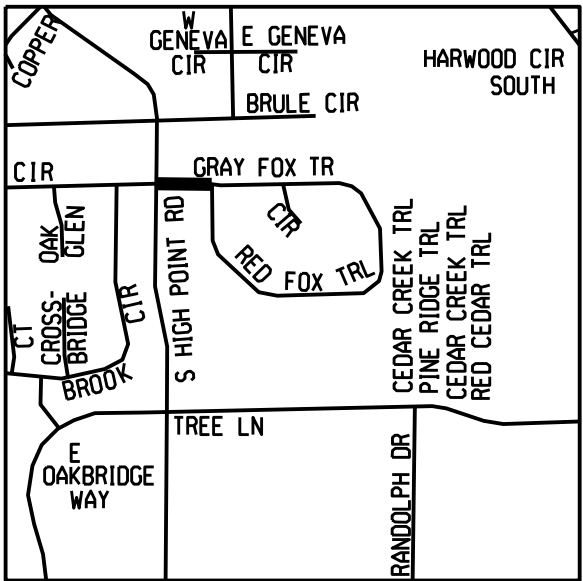
1 - ESCH LN



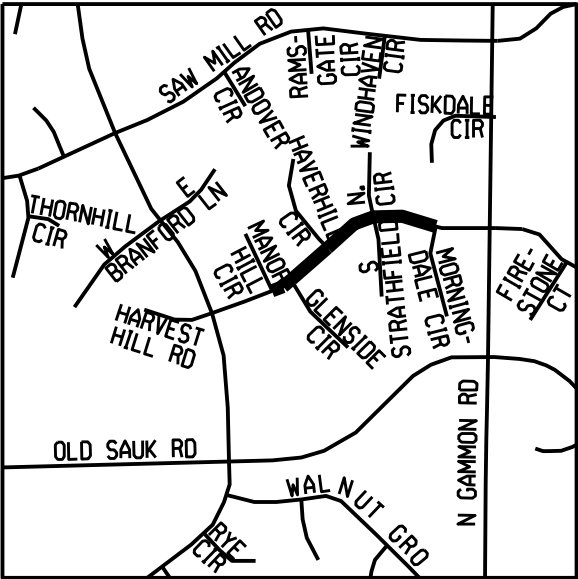
2 - FRISCH RD



3 - GILBERT RD



4 - GRAY FOX TRL



5 - HARVEST HILL



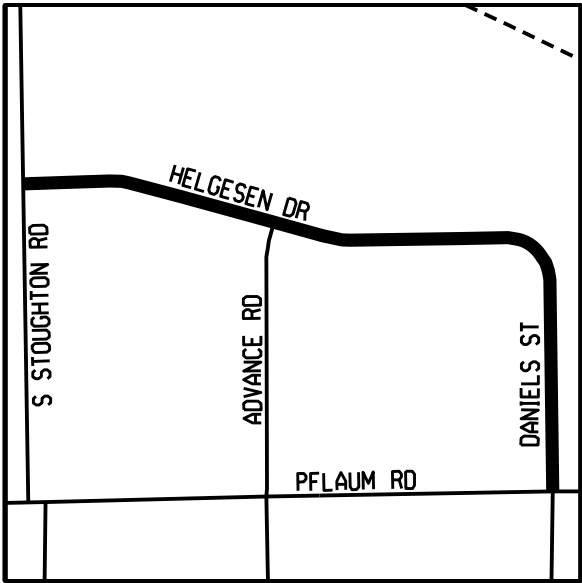
SCALE:
1"=1000'

PLOT SCALE: _____

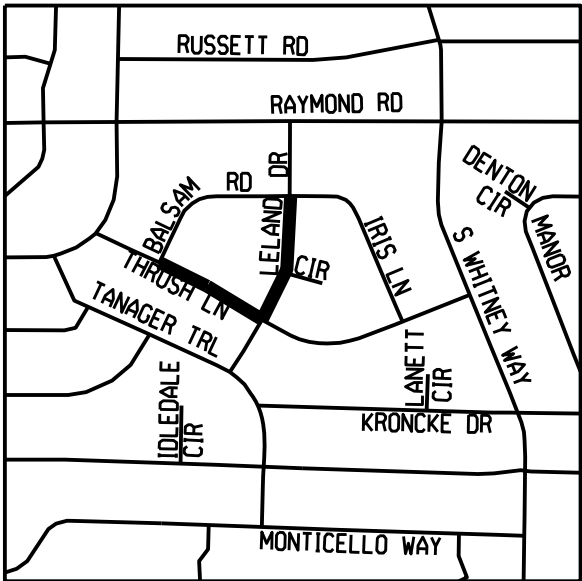
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REV. DATE: _____

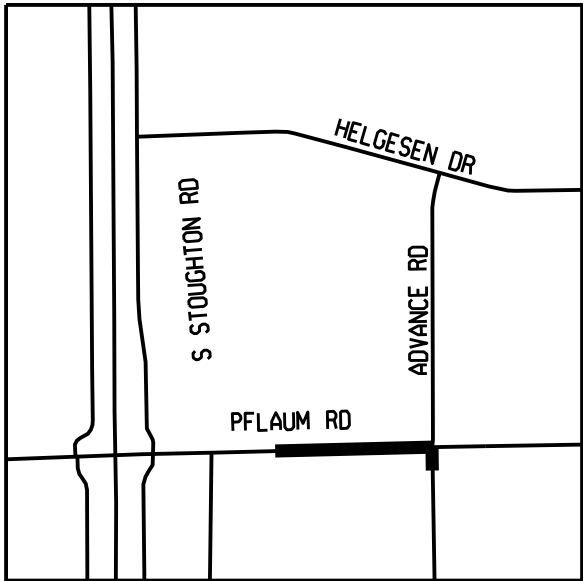
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



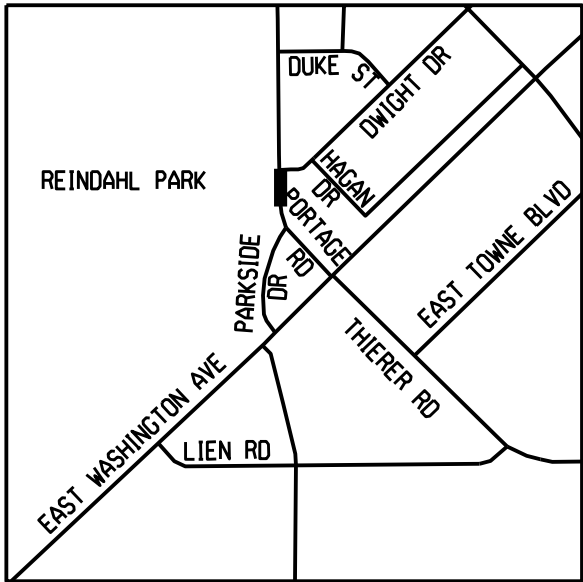
6 - HELGESEN DR / DANIELS ST



7 - LELAND DR / THRUSH LN



8 - PFLAUM RD



9 - PORTAGE RD



SCALE:
1"=1000'

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

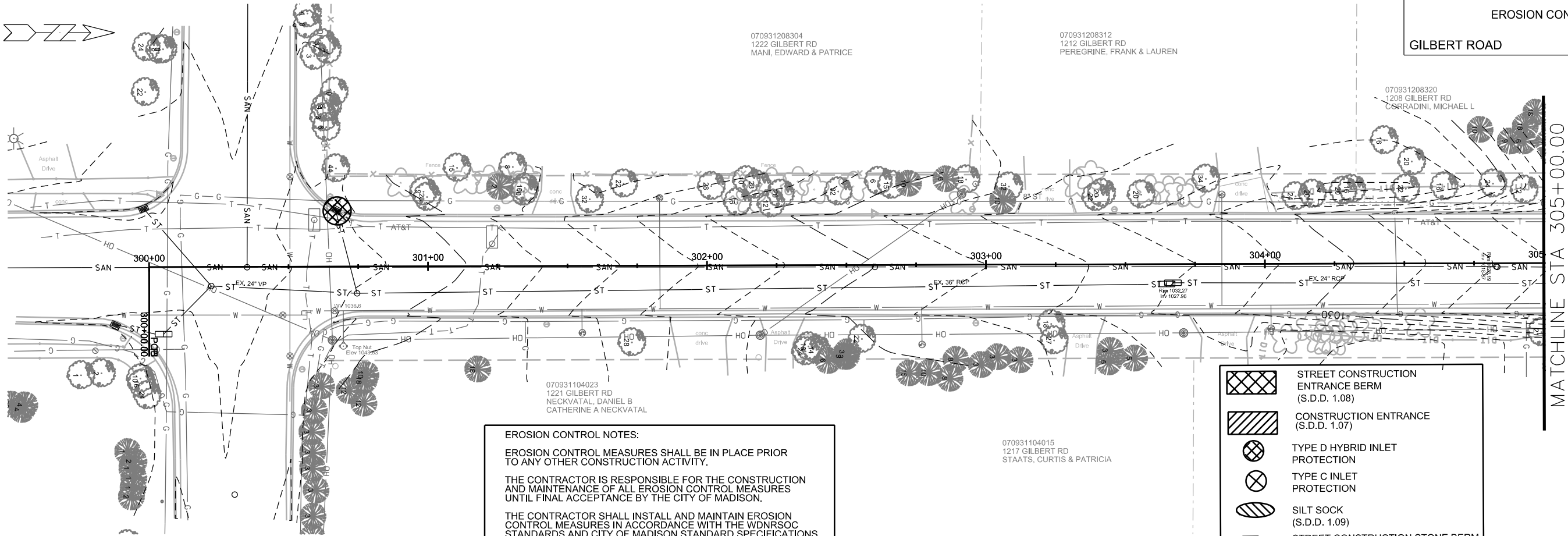
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

STORM SEWER QUANTITIES

			DESIGNED BY:											
			ESCH LN	FRISCH RD	GILBERT RD	GRAY FOX TRL	HARVEST HILL RD	DANIELS ST	LELAND DR	PFLAUM RD	PORTAGE RD	UNDISTRIBUTED		
			Elia E. Acosta	Elia E. Acosta	Eric Dundee	Elia E. Acosta	Eric Dundee	Elia E. Acosta	Elia E. Acosta	Elia E. Acosta	Elia E. Acosta			
ITEM NO.	TYPE OF WORK	UNIT	QUANTITIES										TOTAL	
10702	TRAFFIC CONTROL FOR STORM SEWER INSTALLATION	LUMP SUM	1	1	1	1	1	1	1	1	1		9	
10912	MOBILIZATION FOR STORM SEWER INSTALLATION	LUMP SUM	1	1	1	1	1	1	1	1	1		9	
20217	CLEAR STONE	TON										20	20	
20221	TOPSOIL	SY			60		180						240	
20311	REMOVE SEWER ACCESS STRUCTURE	EACH			1								1	ADDED
20312	REMOVE CATCHBASIN	EACH			4								4	ADDED
20313	REMOVE INLET	EACH			3		1	1					5	
20314	REMOVE PIPE	LF			122							50	172	REVISED
20321	REMOVE CONCRETE PAVEMENT	SY					110						110	
20701	TERRACE SEEDING	SY			60		180						240	
21013	STREET SWEEPING	LUMP SUM	1	1	1	1	1	1	1	1	1		9	
21014	CLEAR STONE BERM (DITCH CHECK)	EACH										4	4	
21035	INLET PROTECTION, TYPE C MODIFIED - COMPLETE	EACH	4	5	3		6	14		4		10	46	
21055	INLET PROTECTION, TYPE D HYBRID - COMPLETE	EACH	3	3	13	10	26	9	10	14	6	10	104	
21062	EROSION MATTING, CLASS I, URBAN TYPE A	SY			60		180						240	
40382	REMOVE & REPLACE CONCRETE CURB & GUTTER, HAND PLACED - RESURFACING	LF	40	30	45	60	435	115	80	40	30		875	
40391	REMOVE & REPLACE 5" THICK CONCRETE SIDEWALK - RESURFACING	LF										50	50	
50211	SELECT BACKFILL FOR STORM SEWER	TF	298	452	1114	401	1086.5	1438	1294	787	359		7230	
50225	UTILITY TRENCH PATCH TYPE III*	TF	149	226	545	201	417	719	647	394	180		3478	
50227	UTILITY TRENCH PATCH TYPE IV*	TF	149	226	545	201	417	719	647	394	180		3478	
50411	12 INCH RCP STORM SEWER PIPE	LF	298	106	189.5	145	293	159	626	44	359		2220	
50412	15 INCH RCP STORM SEWER PIPE	LF		346		256	228.5	1279	96	139			2345	
50413	18 INCH RCP STORM SEWER PIPE	LF					565		572	604			1741	
50415	24 INCH RCP STORM SEWER PIPE	LF			158.5								158.5	
50418	36 INCH RCP STORM SEWER PIPE	LF			260.5								260.5	
50434	29 INCH X 45 INCH HERCP STORM SEWER PIPE	LF			514.5								514.5	REVISED
50499	CONCRETE COLLAR	EACH			2								2	
50723	3'x3' STORM SAS	EACH	1	2	3	1	4	6	6	4	2		29	
50724	4'x4' STORM SAS	EACH						1					1	
50725	5'x5' STORM SAS	EACH			3								3	
50741	TYPE 'H' INLET	EACH	3	3	4	3	15	9	8	4	3		52	
50792	STORM SEWER TAP	EACH	1	1		1	1	1	1	1			7	
50793	PRIVATE STORM SEWER RECONNECT, TYPE 1	EACH						1					1	
50801	UTILITY LINE OPENING (ULO)	EACH	1	1	6		14	9	2	5	3		41	
90030	STORM SEWER TAP (BOX CULVERT)	EACH			1								1	
90031	STORM TREATMENT STRUCTURE	EACH			1								1	
90032	RELOCATE SANITARY SEWER LATERAL	EACH			2								2	
90033	12" RCP FIELD BEND	EACH							1				1	
90034	15" RCP FIELD BEND	EACH				1							1	

* Total Quantity of Trench Patch has been split by percentage between Type III and Type IV Trench Patch. Quantities have been split per contract specifications.



EROSION CONTROL NOTES:

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

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

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

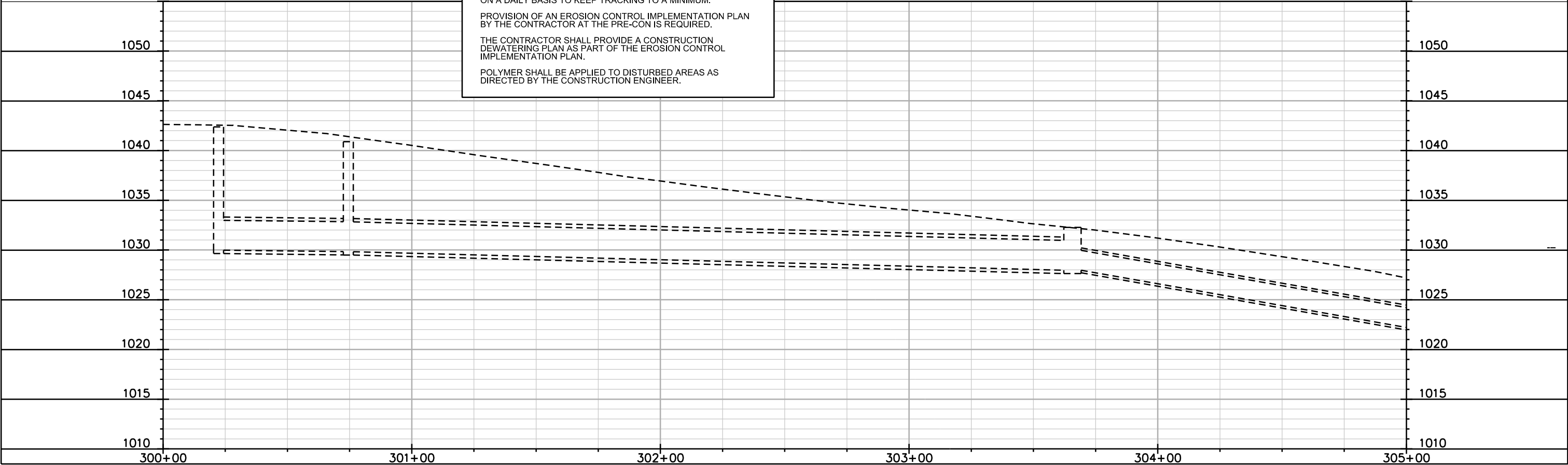
THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

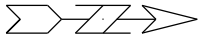
PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.

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

- STREET CONSTRUCTION ENTRANCE BERM (S.D.D. 1.08)
- CONSTRUCTION ENTRANCE (S.D.D. 1.07)
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- SILT SOCK (S.D.D. 1.09)
- STREET CONSTRUCTION STONE BERM (S.D.D. 1.10)



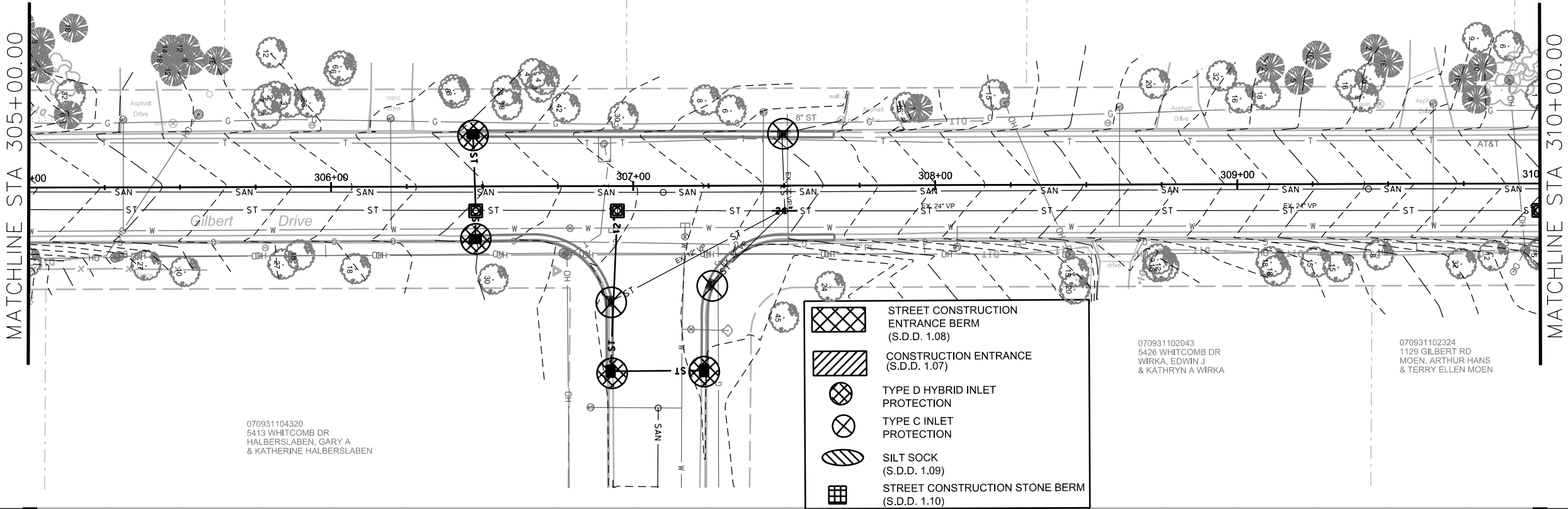


070931208320
1208 GILBERT RD
CORRADINI, MICHAEL L

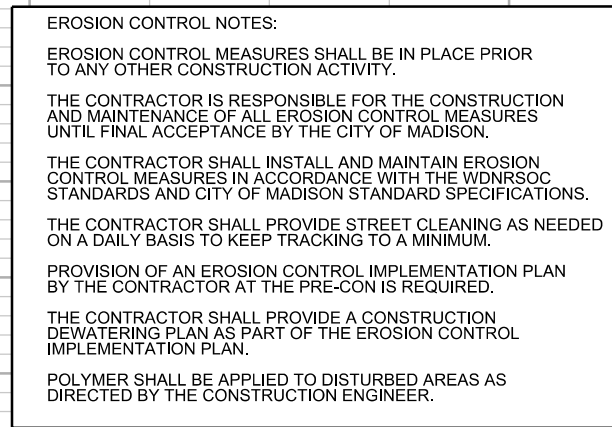
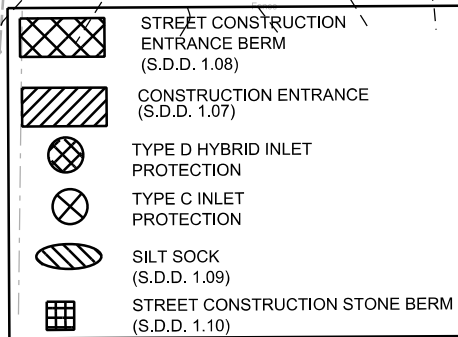
070931208338
1202 GILBERT RD
DRINKA, PAUL J
THERESA JK DRINKA

070931208346
1134 GILBERT RD
HILDEBRAND, DAWN E

070931208560
1130 GILBERT RD
DODD, RICHARD L
& MARILYN I DODD



CITY OF MADISON

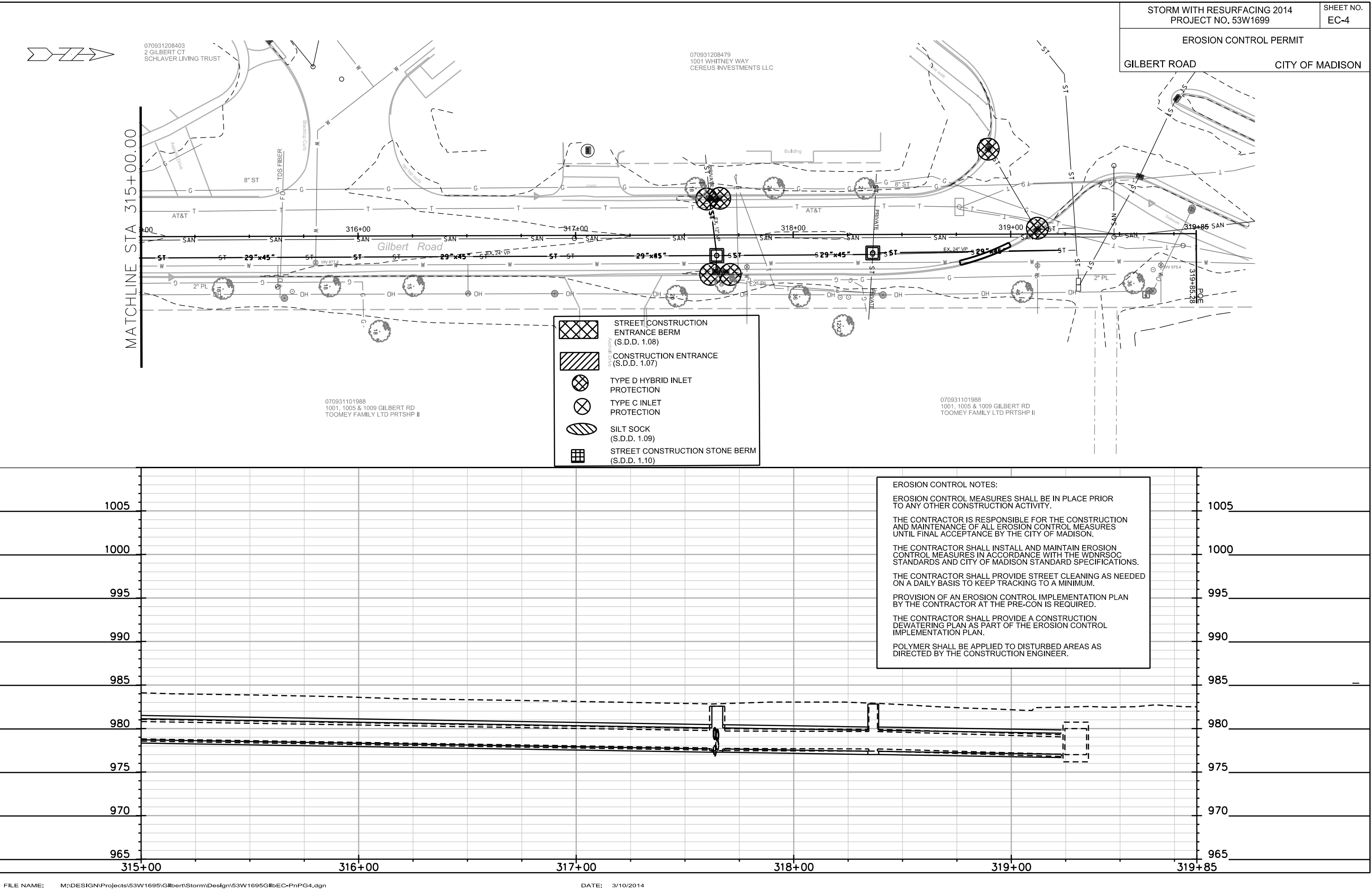


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

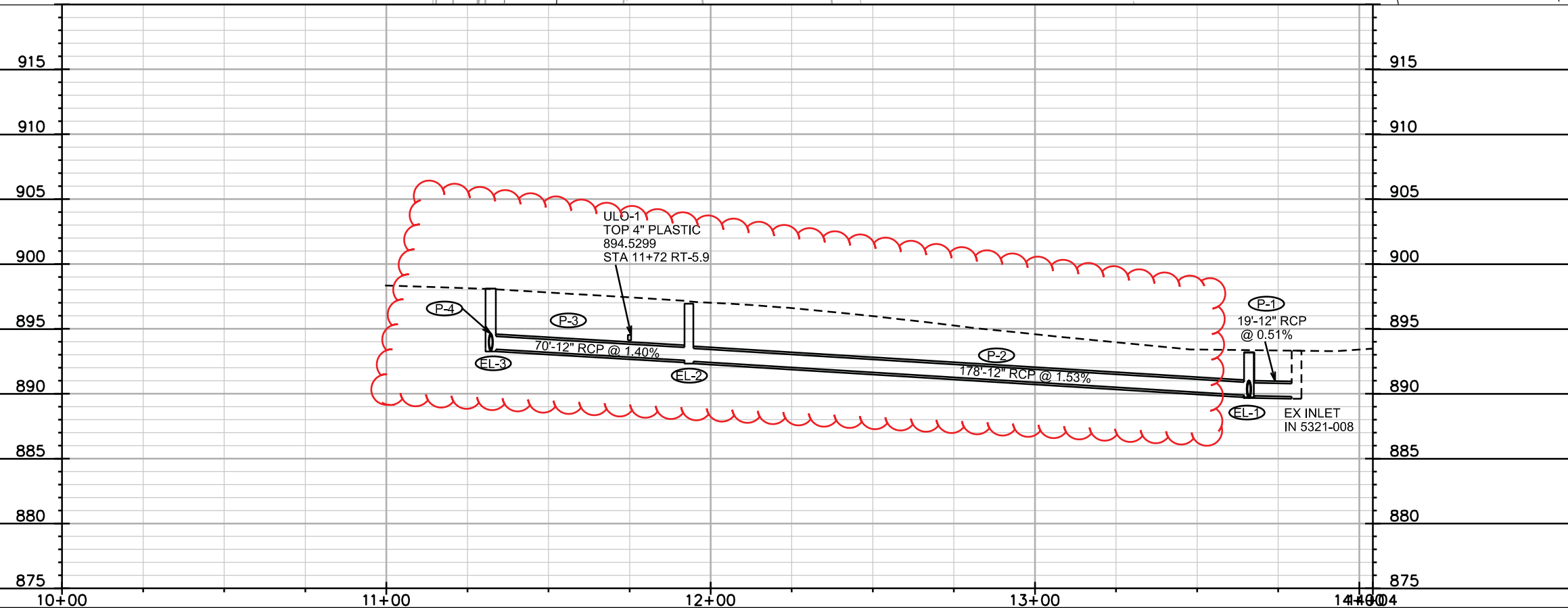
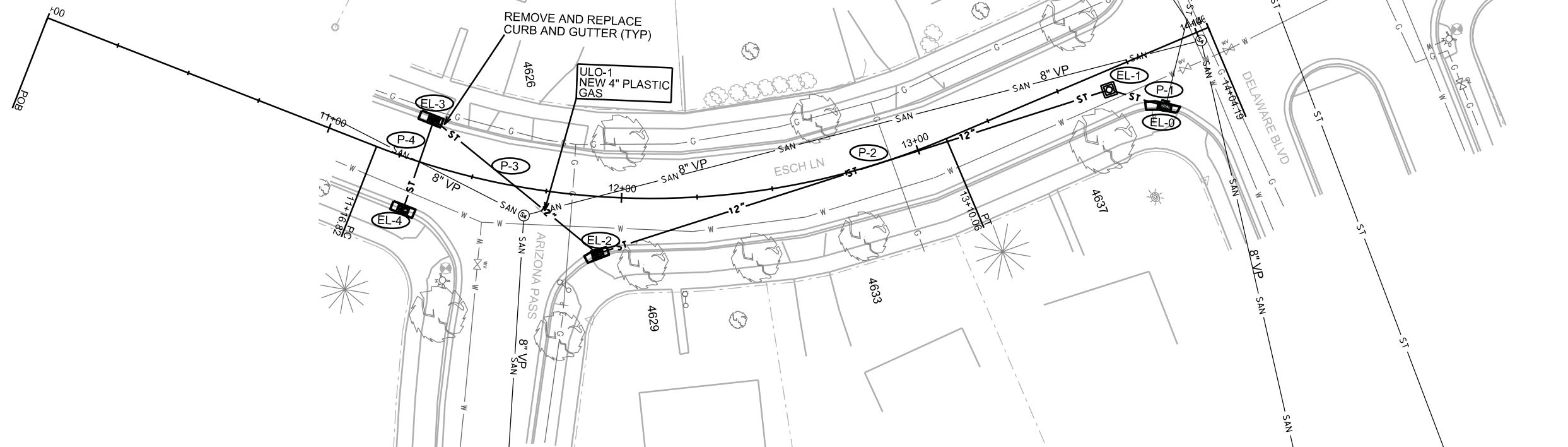
ORIGINATOR: CITY OF MADISON STREETS DIVISION



CITY OF MADISON

NOTE:
TRENCH PATCH ALL NEW STORM SEWER
LOCATIONS. TYPE OF TRENCH PATCH TO
BE DETERMINED BY CONSTRUCTION ENGINEER.

ULO-1
NEW 4" PLASTIC
GAS



PLOT SCALE: -----

PLOT NAME: -----

REV. DATE: -----

ORIGINATOR: CITY OF MADISON STREETS DIVISION

STORM SEWER SCHEDULE

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
EL-0	13+80.00	RT-19.43	TAP EX IN 5321-008	893.32	889.77	3.55	TAP AT EI=889.77
EL-1	13+65.96	RT-6.19	3X3 SAS	893.19	889.85	3.34	W/ R-1550-0054
* EL-2	11+93.71	RT-20.15	H INLET	896.93	892.53	4.40	W/ R-3067-7004-V
* EL-3	11+32.23	LT-15.65	H INLET	898.10	893.47	4.63	W/ R-3067-7004-V; FP
EL-4	11+31.50	RT-18.00	H INLET	897.95	894.55	3.40	W/ R-3067-7004-V

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1	11+83.81	RT-11.94	GAS	TOP 4" PLASTIC 894.5299

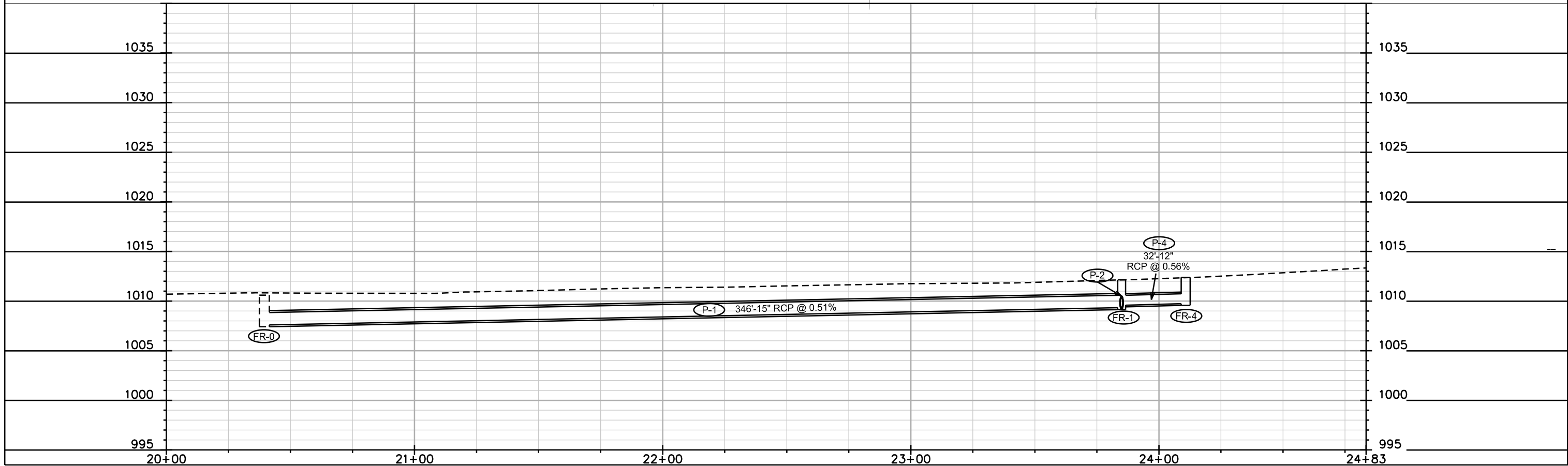
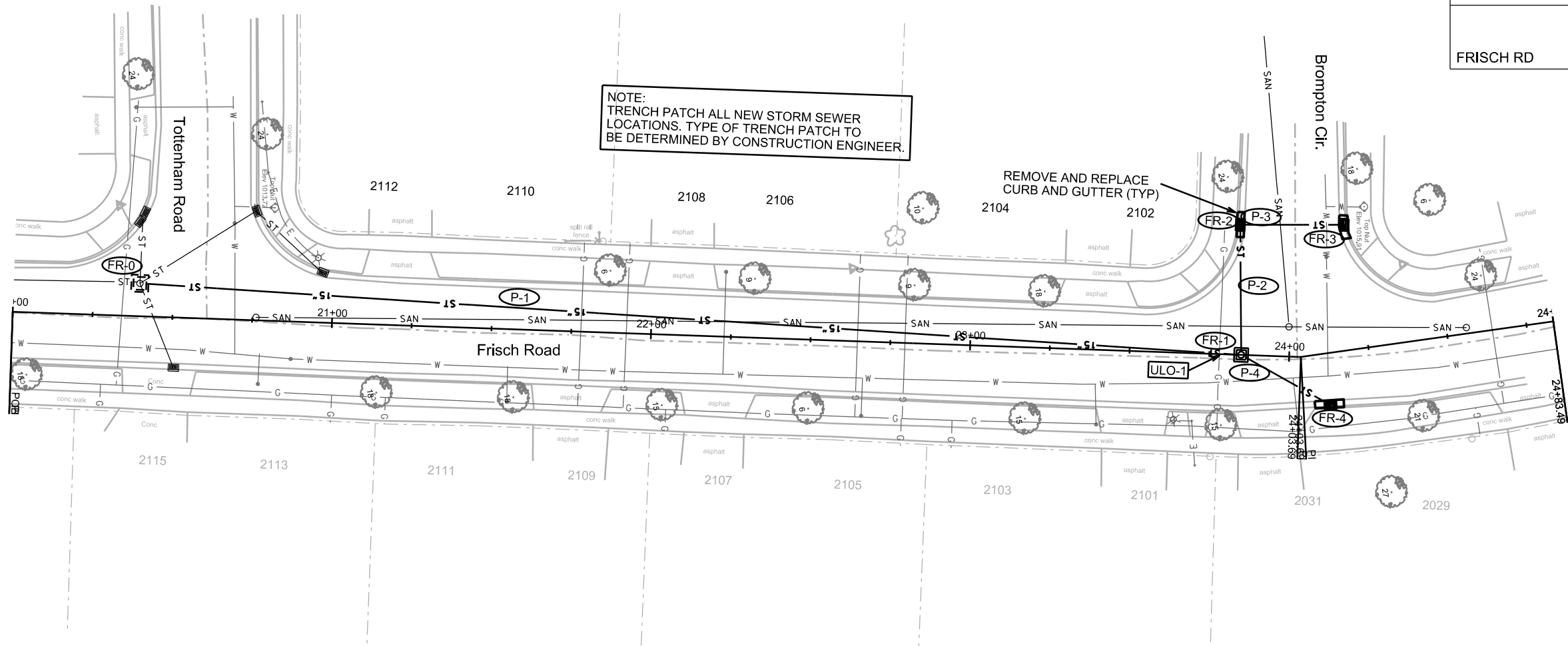
PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	EL-0	EL-1	19	889.77	889.85	0.51%	12"	RCP	-
* P-2	EL-1	EL-2	178	889.85	892.53	1.53%	12"	RCP	-
* P-3	EL-2	EL-3	70	892.53	893.47	1.40%	12"	RCP	-
* P-4	EL-3	EL-4	31	893.47	894.55	3.69%	12"	RCP	-

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
- 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, OR FAX SHOP DRAWINGS TO (608)264-9275.

STORM WITH RESURFACING 2014	SHEET NO.
PROJECT NO. 53W1699	EL-2
ESCH LN	
STORM SEWER SCHEDULE	CITY OF MADISON



STORM SEWER SCHEDULE

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
FR-0	20+39.47	RT-10.27	TAP EX AS 2968-005	1010.60	1007.60	3.00	TAP AT EI=1007.60
FR-1	23+84.95	CL	3X3 SAS	1012.14	1009.33	2.81	FP; W/ R-1550-0054
FR-2	23+82.77	RT-40.66	H INLET	1012.22	1009.54	2.68	FP; W/ R-3067-7004-V
FR-3	24+23.34	RT-38.99	H INLET	1012.85	1009.71	3.14	W/ R-3067-7004-V
FR-4	24+10.74	LT-16.70	H INLET	1012.80	1009.74	3.06	W/ R-3067-7004-V

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1	23+77.94	CL	GAS	-

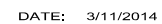
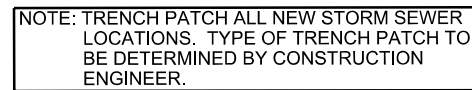
PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	FR-0	FR-1	346	1007.60	1009.33	0.51%	15"	RCP	-
P-2	FR-1	FR-2	41	1009.33	1009.54	0.56%	12"	RCP	NCM
P-3	FR-2	FR-3	33	1009.54	1009.71	0.56%	12"	RCP	-
P-4	FR-1	FR-4	32	1009.58	1009.74	0.56%	12"	RCP	-

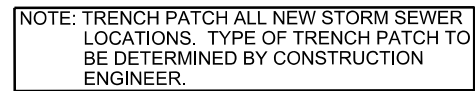
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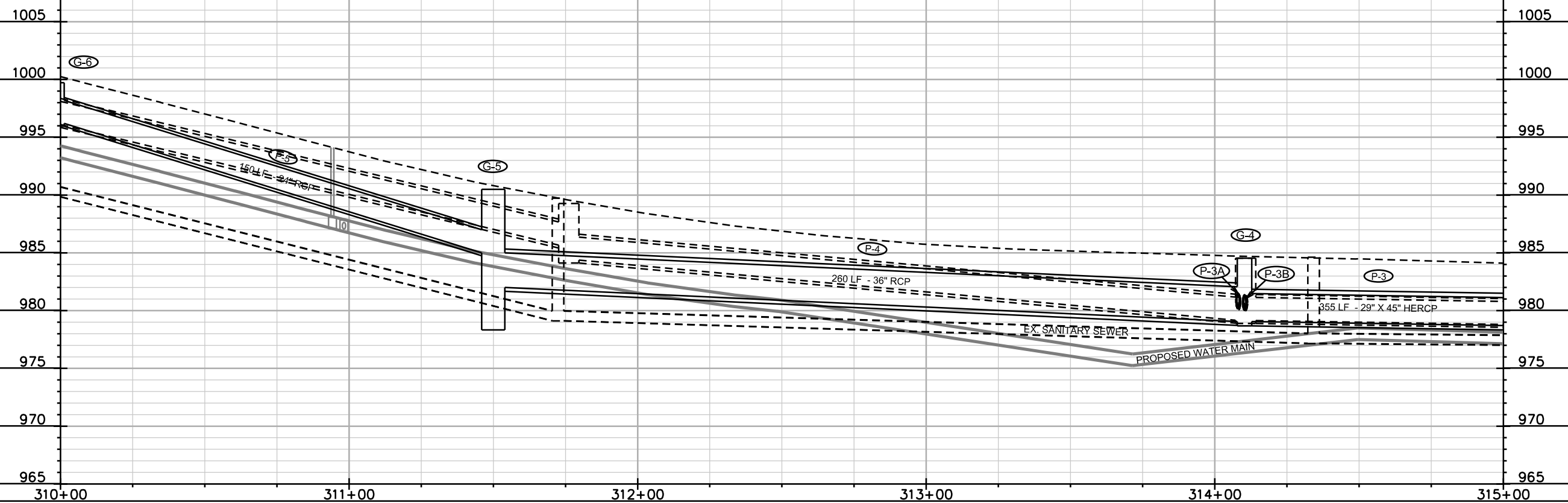
CITY OF MADISON



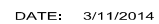
CITY OF MADISON



POSSIBLE CONFLICT WITH SANITARY
SEWER LATERAL. IF RELOCATION NEEDED,
TO BE PAID BY BID ITEM 90032 - RELOCATE
SANITARY SEWER LATERAL



CITY OF MADISON



STORM SEWER SCHEDULE

REVISED 03/21/2014 ELD

STORM WITH RESURFACING 2014
PROJECT NO. 53W1699

SHEET NO.
G-4

GILBERT ROAD
STORM SEWER SCHEDULE

CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
GILBERT ROAD							
G-1	319+25.00	RT-7.50	TAP EX MH	DNA	977.05	DNA	TAP AT EI=977.05; (2)
G-2	318+36.50	RT-8.50	5X5 SAS	982.87	977.39	5.48	W/ R-1550-0054; FP; (2)
G-3	317+65.00	RT-9.50	5X5 SAS	982.57	977.66	4.91	W/ R-1550-0054; FP
G-4	314+10.30	RT-10.00	5X5 SAS	984.54	979.06	5.48	W/ R-1550-0054; FP
G-5	311+50.00	RT-9.30	TREATMENT STRUCTURE	990.50	982.00	8.50	(1), FP
G-6	310+00.00	RT-9.00	3X3 SAS	999.72	996.20	3.52	W/ R-1550-0054; FP; (2)
G-6A	307+54.00	RT-8.00	CONCRETE COLLAR	DNA	DNA	DNA	(2)
G-6B	307+46.00	RT-8.00	CONCRETE COLLAR	DNA	DNA	DNA	(2)
G-7	306+95.00	RT-8.00	3X3 SAS	1018.20	1014.00	4.20	W/ R-1550-0054; FP; (2)
G-7A	306+91.60	RT-61.35	H INLET	1017.91	1014.13	3.78	W/ R-3067-7004-V
G-7B	307+24.00	RT-61.35	H INLET	1017.31	1014.20	3.11	W/ R-3067-7004-V
G-8	306+48.00	RT-8.00	3X3 SAS	1019.85	1016.80	3.05	W/ R-1550-0054; FP; (2)
G-8A	306+47.00	LT-17.50	H INLET	1019.82	1017.01	2.81	W/ R-3067-7004-V
G-8B	306+47.70	RT-17.50	H INLET	1020.02	1016.87	3.15	W/ R-3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	G-1	G-2	88.5	977.05	977.39	0.40%	29"X45"	HERCP	VERIFY E.I.(N)
P-2	G-2	G-3	71.5	977.39	977.66	0.40%	29"X45"	HERCP	-
P-2A	G-3	EX. IN3263-002	26.5	978.75	979.20	2.00%	12"	RCP	VERIFY E.I.(W)
P-2B	G-3	EX. IN3363-013	7.5	978.75	979.06	2.00%	12"	RCP	VERIFY E.I.(E)
P-3	G-3	G-4	354.5	977.66	979.06	0.40%	29"X45"	HERCP	-
P-3A	G-4	EX. IN3263-003	28	980.20	980.65	1.85%	12"	RCP	VERIFY E.I.(W)
P-3B	G-4	EX. IN3363-015	8.5	980.20	980.25	1.10%	12"	RCP	VERIFY E.I.(E)
P-4	G-4	G-5	260.5	979.06	982.00	1.16%	36"	RCP	-
P-5	G-5	G-6	150	985.00	996.20	7.50%	24"	RCP	-
P-6	G-6A	G-6B	8.5	1011.01	1011.36	4.19%	24"	RCP	-
P-7	G-7	G-7A	53	1014.00	1014.13	0.25%	12"	RCP	-
P-7A	G-7A	G-7B	31	1014.13	1014.20	0.25%	12"	RCP	-
P-8A	G-8	G-8A	25.5	1016.90	1017.01	0.50%	12"	RCP	-
P-8B	G-8	G-8B	9.5	1016.80	1016.87	1.00%	12"	RCP	-

STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES:
R-1	AS3362-014	318+36.50	RT-8.5	4X4 SAS	-
R-2	AS3363-012	317+65.00	RT-9.50	CATCHBASIN	-
R-3	AS3363-014	314+10.30	RT-10.00	CATCHBASIN	-
R-4	AS3363-016	311+76.00	LT-9.50	CATCHBASIN	-
R-5	IN3264-018	307+50.00	LT-17.00	H INLET	-
R-6	AS3364-004	307+26.00	RT-8.00	CATCHBASIN	-
R-7	IN3264-005	307+26.00	RT-33.00	H INLET	-
R-8	IN3264-006	306+92.00	RT-38.50	H INLET	-

STORM PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	G-1	R-1 (AS3362-014)	88	N	24"	VP	-
RP-2	R-1 (AS3362-014)	R-2 (AS3363-012)	72	N	24"	VP	-
RP-2A	R-2 (AS3363-012)	EX. IN3263-002	26	N	24"	VP	-
RP-2B	R-2 (AS3363-012)	EX. IN3363-013	7	N	24"	VP	-
RP-3	R-2 (AS3363-012)	R-3 (AS3363-014)	345	N	24"	VP	-
RP-3A	R-3 (AS3363-014)	EX. IN3263-003	28	N	24"	VP	-
RP-3B	R-3 (AS3363-014)	EX. IN3363-015	9	N	24"	VP	-
RP-4	R-3 (AS3363-014)	R-4 (AS3363-016)	234	N	24"	VP	-
RP-5	R-4 (AS3363-016)	G-6 (STA 310+00)	176	N	24"	VP	-
RP-6	G-6A (STA 307+50)	R-5 (IN3264-018)	25	Y	12"	VP	-
RP-7	G-6A (STA 307+50)	R-6 (IN3264-005)	33	Y	12"	VP	-
RP-8	G-6A (STA 307+50)	R-7 (IN3264-006)	64	Y	12"	VP	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO1	317+85.00	RT-9.00	TELEPHONE	-
ULO2	317+75.00	RT-9.00	ELECTRIC	-
ULO3	315+65.00	RT-9.00	FIBER OPTIC	-
ULO4	306+95.00	RT-18.00	GAS	-
ULO5	306+48.00	RT-18.00	GAS	-
ULO6	306+48.00	LT-14.00	TELEPHONE	-

SPECIFIC NOTES

- (1) STORMWATER TREATMENT DEVICE PER SDD 5.7.39 & 5.7.39A

PIPE IN INVERT = 985.00, PIPE OUT INVERT = 982.00

STRUCTURE STATION AND OFFSET AT PIPE CENTERLINE, TREATMENT AREA TO BE BUILT ON EAST SIDE OF STRUCTURE

DIMENSION A = 24", DIMENSION B = 93"
- (2) CONNECT TO EXISTING PIPE(S)

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; U = 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 ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913, EDUNDEE@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

STORM SEWER SCHEDULE

* REVISED 7/18/14 EEA

STORM WITH RESURFACING 2014 PROJECT NO. 53W1699	SHEET NO. GF-2
GRAY FOX TRL STORM SEWER SCHEDULECITY OF MADISON	

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* GF-0	40+52.00	LT-7.00	TAP	-	1031.62	-	STM TAP
* GF-1	40+86.00	LT-13.00	3X3 SAS	1035.90	1031.99	3.91	W/ R-1550-0054
* GF-2	43+06.00	LT-22.00	3X3 SAS	1045.40	1040.86	4.54	FP; W/ R-3067-7004-V
* GF-2A	43+34.40	RT-14.50	H INLET	1046.25	1042.85	3.40	W/ R-3067-7004-V
* GF-3	43+10.00	RT-44.00	H INLET	1045.48	1041.37	4.11	W/ R-3067-7004-V
* GF-3A	42+77.00	RT-35.00	H INLET	1044.12	1041.56	2.56	FP; W/ R-3067-7004-V

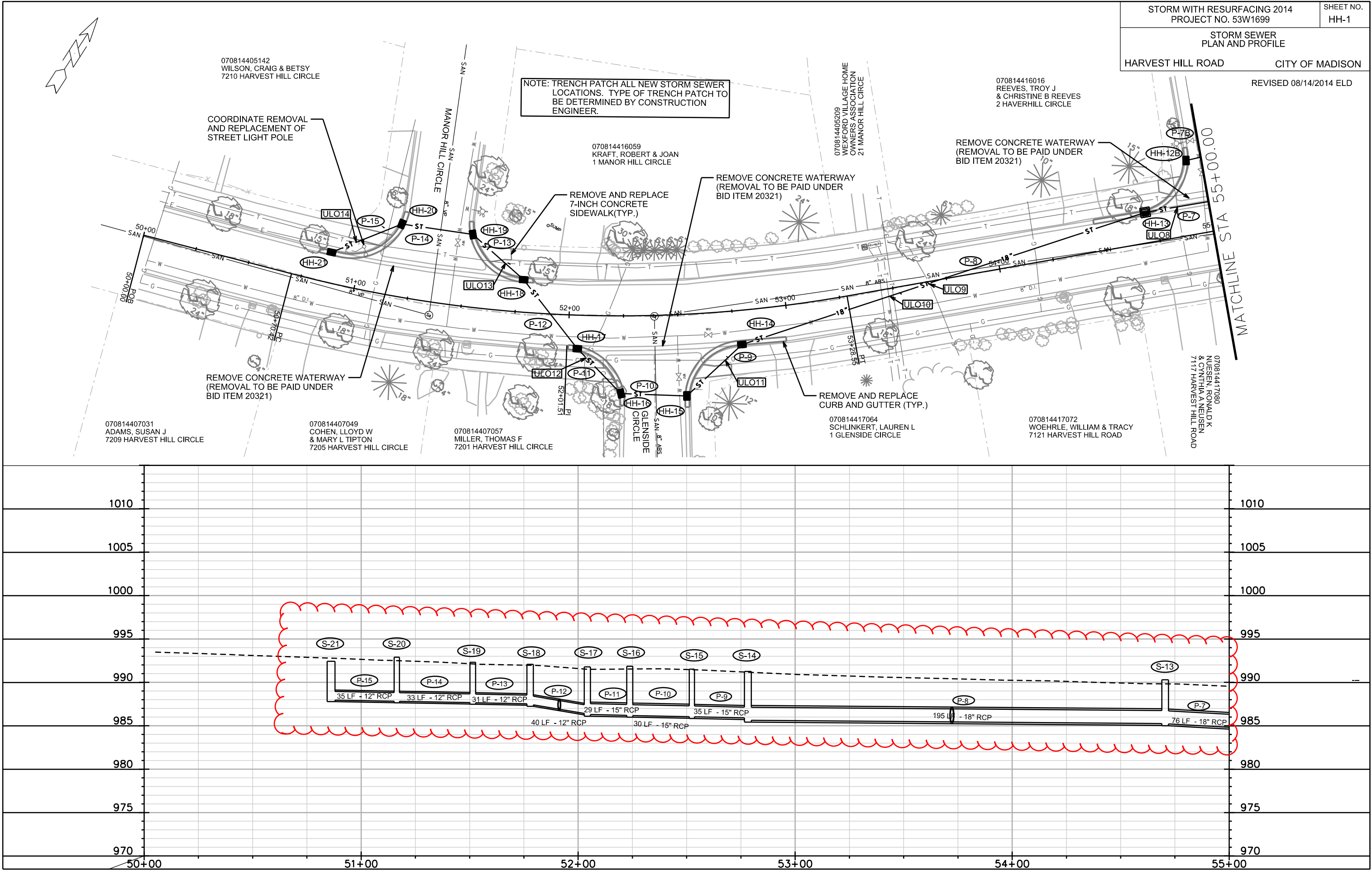
PIPES

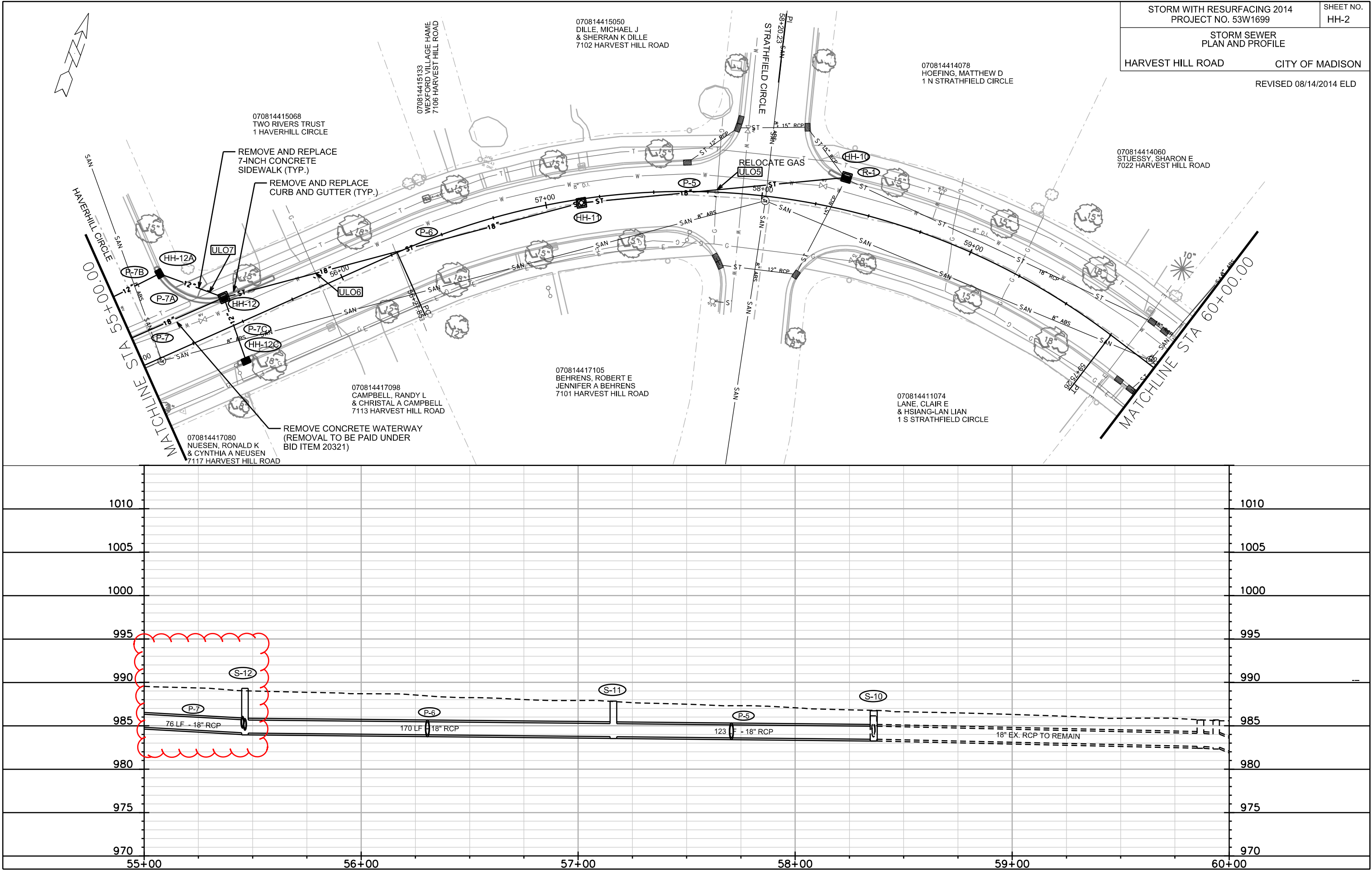
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-1	GF-0	GF-1	35	1031.62	1031.99	1.06%	15"	RCP	-
* P-2	GF-1	GF-2	221	1031.99	1040.86	4.01%	15"	RCP	-
* P-2A	GF-2	GF-2A	46	1041.11	1042.85	3.78%	12"	RCP	-
* P-3	GF-2	GF-3	51	1041.11	1041.37	0.51%	12"	RCP	-
* P-3A	GF-3	GF-3A	37	1041.37	1041.56	0.51%	12"	RCP	-

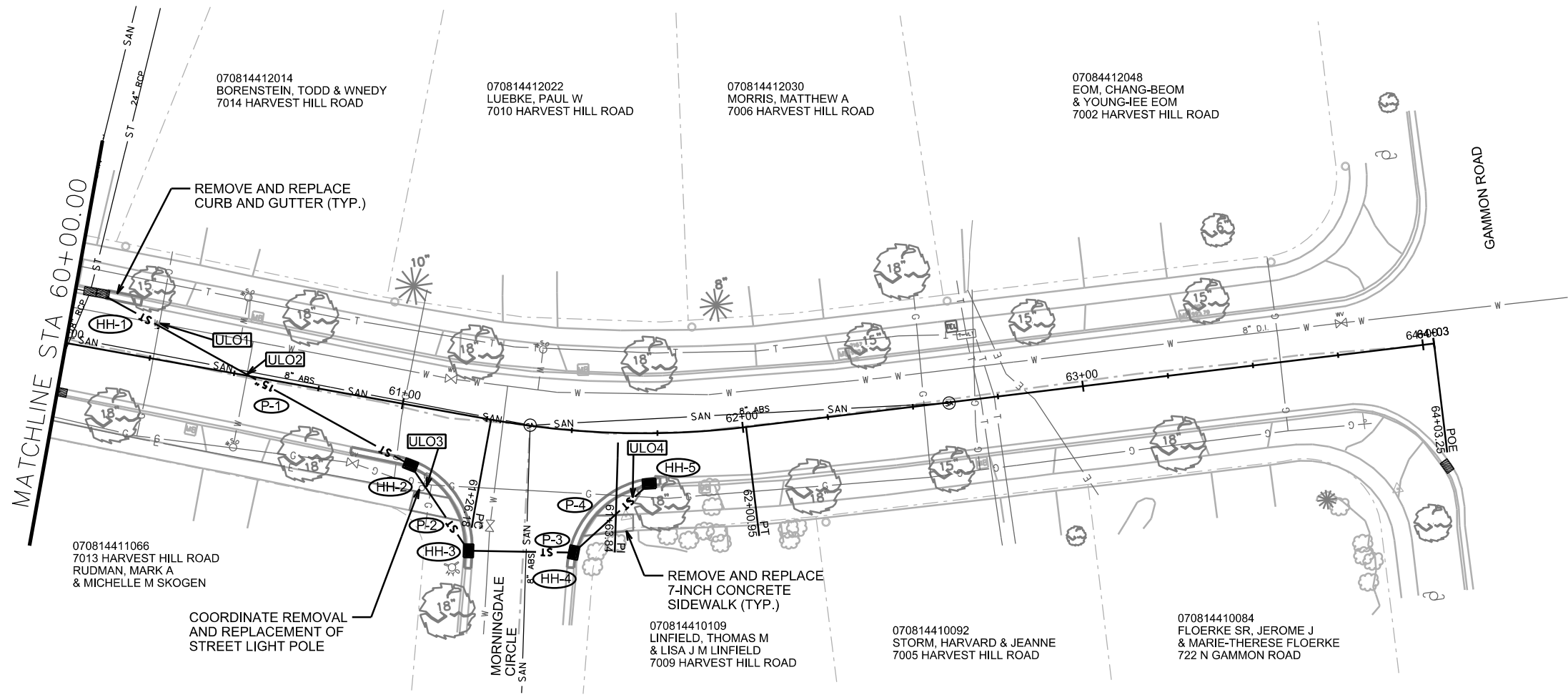
STANDARD NOTES:

- 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
- 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, OR FAX SHOP DRAWINGS TO (608)264-9275.

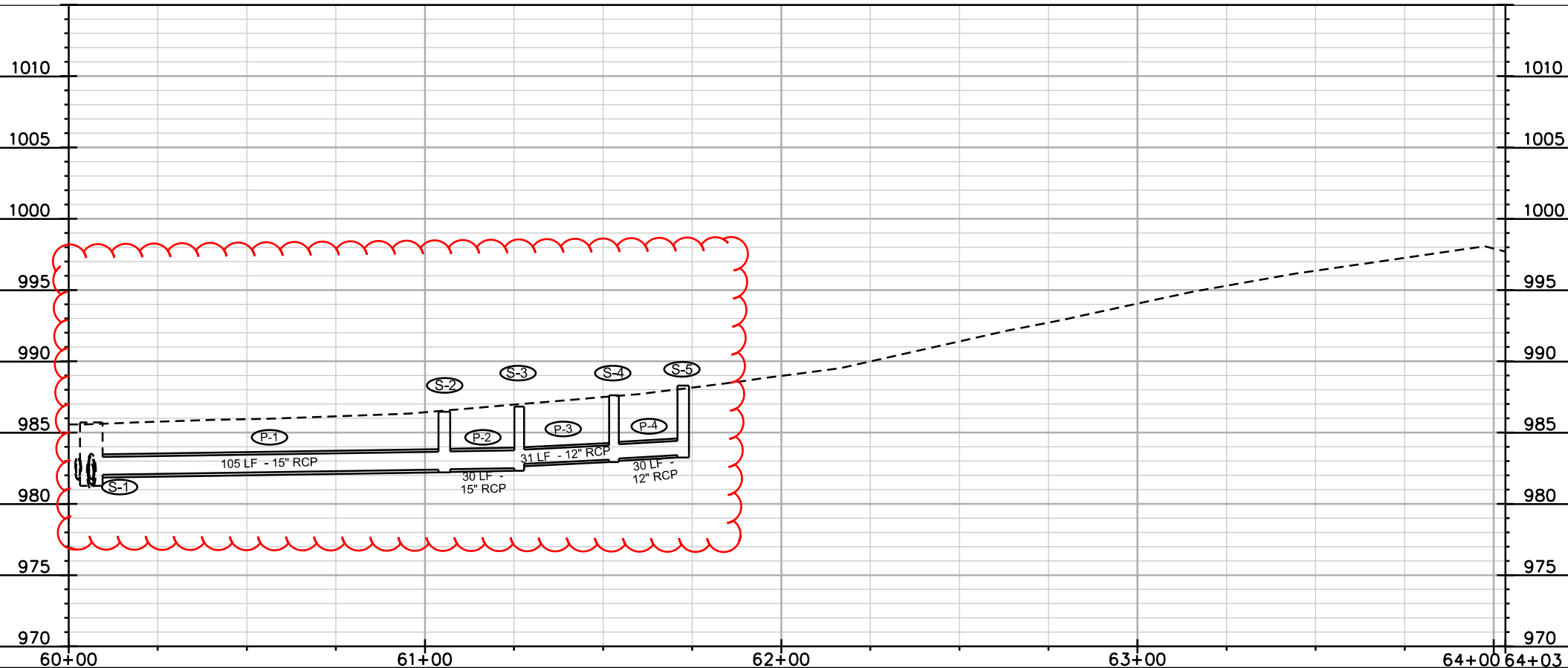
SPECIFIC NOTES







NOTE: TRENCH PATCH ALL NEW STORM SEWER LOCATIONS. TYPE OF TRENCH PATCH TO BE DETERMINED BY CONSTRUCTION ENGINEER.



STORM SEWER SCHEDULE

REVISED 08/14/2014 ELD

STORM WITH RESURFACING 2014

PROJECT NO. 53W1699

SHEET NO.

HH-4

HARVEST HILL ROAD
STORM SEWER SCHEDULE CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
HARVEST HILL ROAD							
HH-1	60+06.40	LT-16.00	TAP EX MH	985.71	981.26	4.45	TAP AT EI=982.01
* HH-2	61+05.00	RT-17.50	H INLET	986.46	982.41	4.05	W/ R-3067-7004-V
* HH-3	61+26.00	RT-38.90	H INLET	986.82	982.52	4.30	W/ R-3067-7004-V
HH-4	61+53.50	RT-35.50	H INLET	987.61	983.13	4.48	W/ R-3067-7004-VB, LP
HH-5	61+72.50	RT-15.00	H INLET	988.30	983.46	4.84	W/ R-3067-7004-V
HH-10	58+36.20	LT-14.75	3X3 SAS	986.72	983.44	3.28	W/ R-3067-7004-VB, LP, FP
HH-11	57+16.25	RT-1.73	3X3 SAS	987.84	983.74	4.10	W/ R-1550-0054
HH-12	55+46.50	LT-13.50	3X3 SAS	989.31	984.16	5.15	W/ R-3067-7004-VB, LP
HH-12A	55+24.35	LT-35.75	H INLET	989.70	985.78	3.92	W/ R-3067-7004-V
HH-12B	54+92.70	LT-34.40	H INLET	990.03	986.35	3.68	W/ R-3067-7004-V
HH-12C	55+44.00	RT-17.50	H INLET	989.20	985.23	3.97	W/ R-3067-7004-V
* HH-13	54+70.50	LT-14.00	3X3 SAS	990.29	985.25	5.04	W/ R-3067-7004-V
* HH-14	52+78.25	RT-15.50	H INLET	991.26	985.63	5.63	W/ R-3067-7004-V
* HH-15	52+52.90	RT-37.65	H INLET	991.52	986.04	5.48	W/ R-3067-7004-V
* HH-16	52+23.30	RT-35.90	H INLET	991.85	986.18	5.67	W/ R-3067-7004-V
* HH-17	52+04.20	RT-16.00	H INLET	991.78	986.31	5.47	W/ R-3067-7004-V
* HH-18	51+77.85	LT-15.50	H INLET	992.07	987.52	4.55	W/ R-3067-7004-V
* HH-19	51+52.00	LT-33.60	H INLET	992.31	987.66	4.65	W/ R-3067-7004-V
* HH-20	51+16.00	LT-33.45	H INLET	992.90	987.81	5.09	W/ R-3067-7004-V
* HH-21	50+86.10	LT-14.50	H INLET	992.42	987.97	4.45	W/ R-3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-1	HH-1	HH-2	104.5	982.01	982.41	0.40%	15"	RCP	-
* P-2	HH-2	HH-3	30	982.41	982.52	0.40%	15"	RCP	-
* P-3	HH-3	HH-4	30.5	982.77	983.13	1.25%	12"	RCP	-
* P-4	HH-4	HH-5	30	983.13	983.46	1.25%	12"	RCP	-
P-5	HH-10	HH-11	123	983.44	983.74	0.25%	18"	RCP	-
P-6	HH-11	HH-12	170.5	983.74	984.16	0.25%	18"	RCP	-
* P-7	HH-12	HH-13	76	984.16	985.25	1.50%	18"	RCP	-
P-7A	HH-12	HH-12A	31.5	984.66	985.78	4.00%	12"	RCP	-
P-7B	HH-12A	HH-12B	30.5	985.78	986.35	2.00%	12"	RCP	-
P-7C	HH-12	HH-12C	31	984.66	985.23	2.00%	12"	RCP	-
* P-8	HH-13	HH-14	195.5	985.25	985.63	0.20%	18"	RCP	-
* P-9	HH-14	HH-15	34.5	985.88	986.04	1.00%	15"	RCP	-
* P-10	HH-15	HH-16	30.5	986.04	986.18	0.50%	15"	RCP	-
* P-11	HH-16	HH-17	29	986.18	986.31	0.50%	15"	RCP	-
* P-12	HH-17	HH-18	40	986.31	987.52	3.22%	12"	RCP	-
* P-13	HH-18	HH-19	31.5	987.52	987.66	0.50%	12"	RCP	-
* P-14	HH-19	HH-20	33	987.66	987.81	0.50%	12"	RCP	-
* P-15	HH-20	HH-21	35	987.81	987.97	0.50%	12"	RCP	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
HARVEST HILL ROAD				
ULO1	60+26.00	LT-10.00	GAS, WATER	TOP 2" GAS = 981.71 - NO CONFLICT
ULO2	60+55.00	CL	WATER, SAN	NOT COMPLETED
ULO3	61+10.00	RT-23.00	GAS	TOP 2" GAS = 983.72 - LOWERED P-1 AND P-2
ULO4	61+65.00	RT-18.00	GAS	TOP 2" GAS = 984.84 - LOWERED P-3 AND P-4
ULO5	57+78.00	LT-1.00	GAS	TOP 2" GAS = 983.79, BTM PIPE = 983.40 - RELOCATE GAS
ULO6	55+90.00	LT-8.00	GAS, WATER	TOP 1" GAS = 985.86 - NO CONFLICT
ULO7	55+42.00	LT-18.00	TELEPHONE	TOP 2" TELE = 986.24
ULO8	54+85.00	LT-14.00	GAS	TOP 2" GAS = 984.69 - RAISED P-7
ULO9	53+67.00	CL	ELECTRIC	TOP 4" ELECT = 987.40 - LOWERED SLOPE P-8
				TOP 2" TELE(2 CONDUIT) = 987.29
ULO10	53+45.00	RT-3.00	TELEPHONE	TOP 2" TELE = 987.58 - LOWERED SLOPE P-8
ULO11	25+70.00	RT-22.00	GAS	TOP 2" GAS = 987.67 - LOWERED PIPES
ULO12	52+08.00	RT-22.00	GAS	TOP 2" GAS = 988.07 - LOWERED PIPES
ULO13	51+70.00	LT-22.00	TELEPHONE	TOP 2" FO = 989.16 - LOWERED PIPES
ULO14	50+95.00	LT-22.00	TELEPHONE	TOP 2" FO = 989.67 - LOWERED PIPES
ULO101			GAS	TOP 2" GAS = 989.42 - LOWERED PIPES

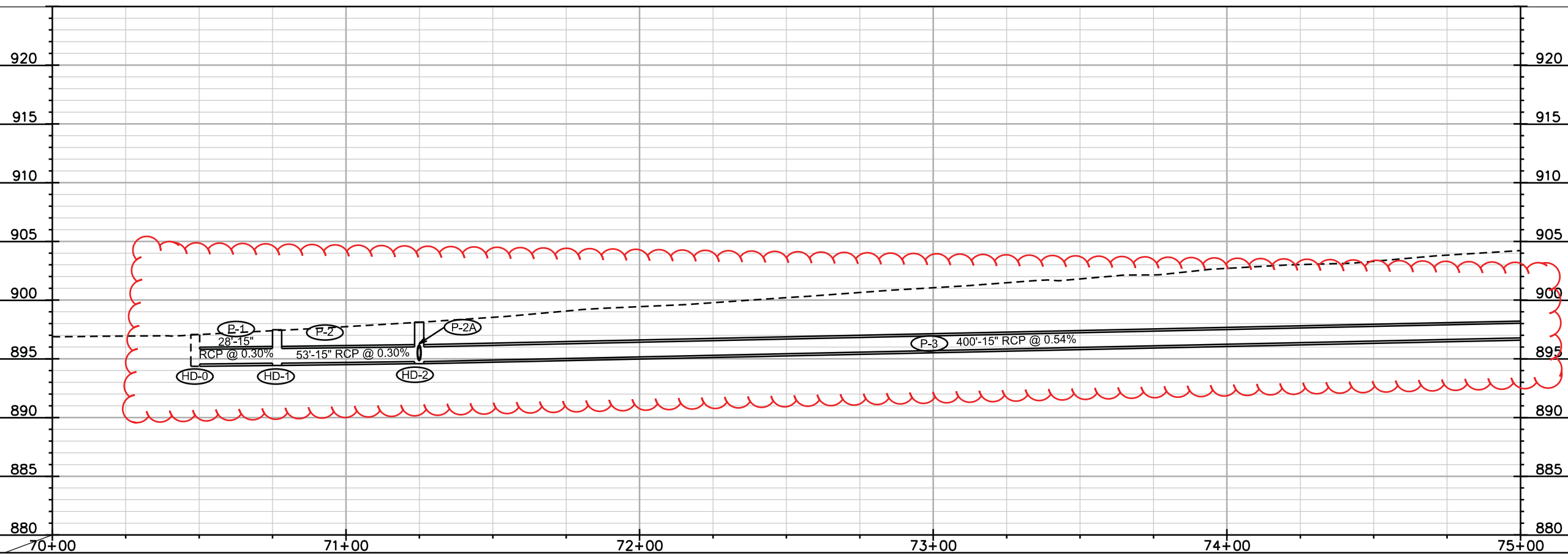
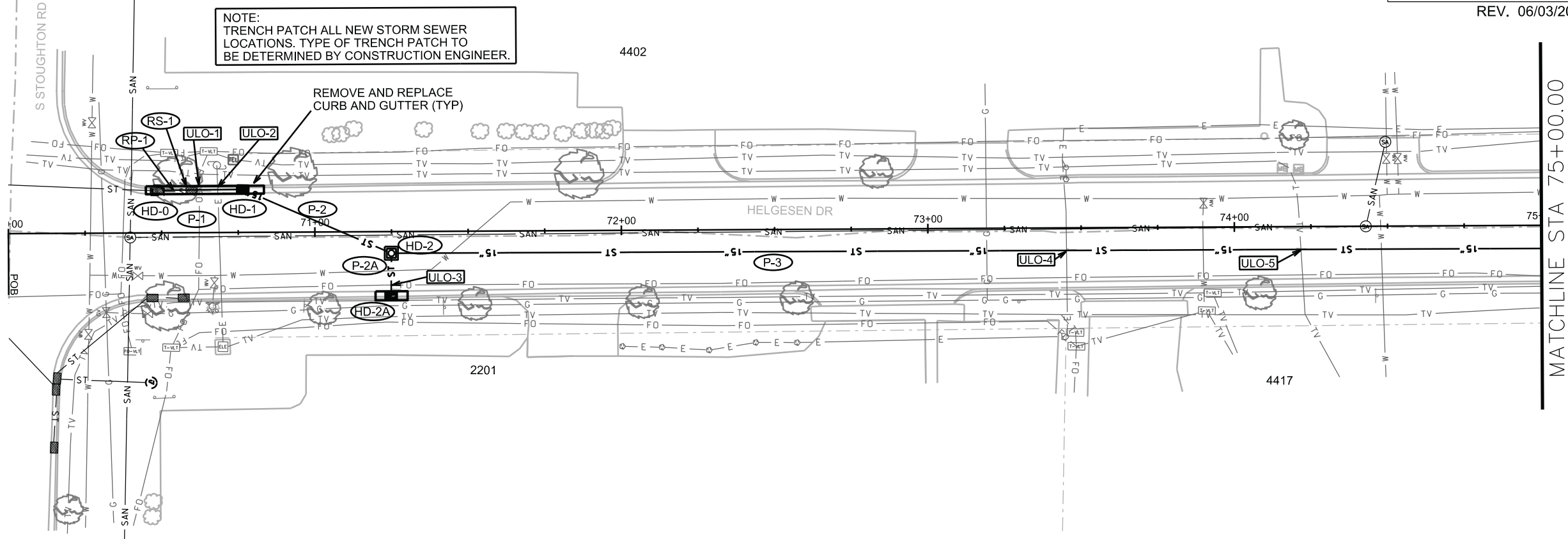
SPECIFIC NOTES

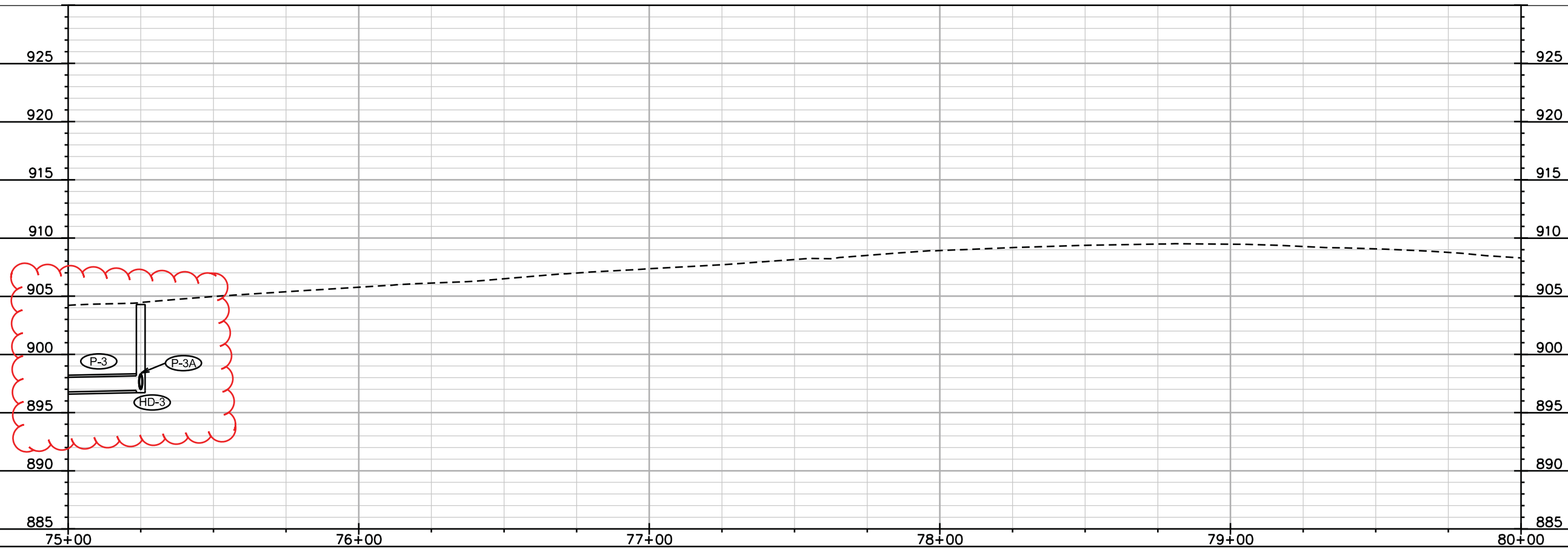
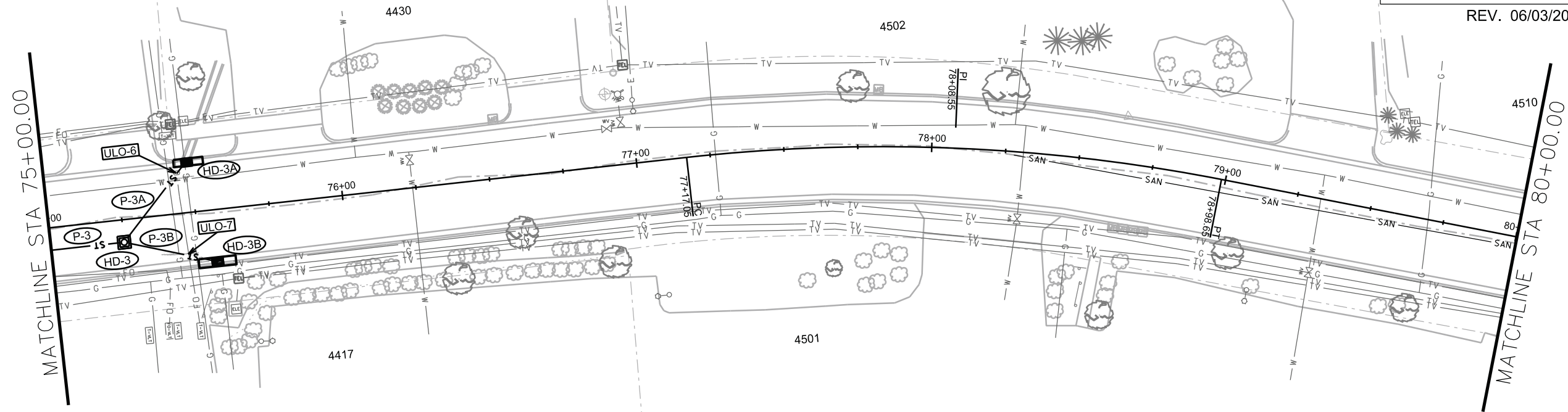
STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES:
R-1	IN2648-013	58+36.10	LT-14.50	H INLET	-

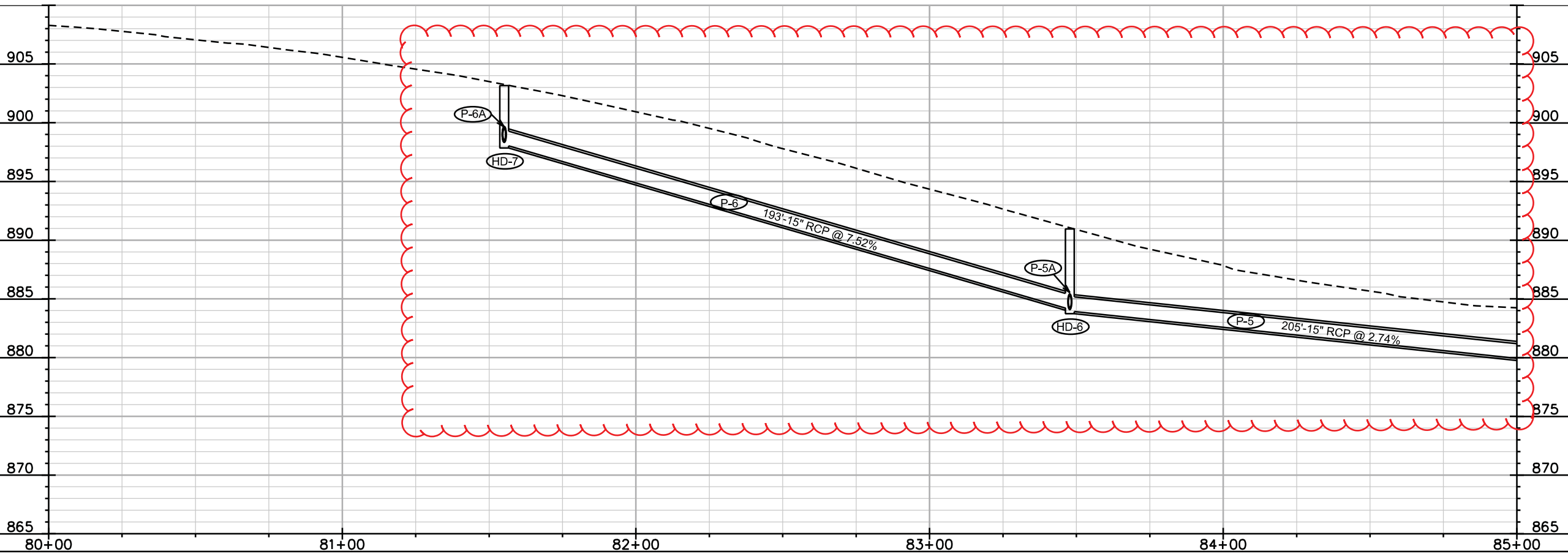
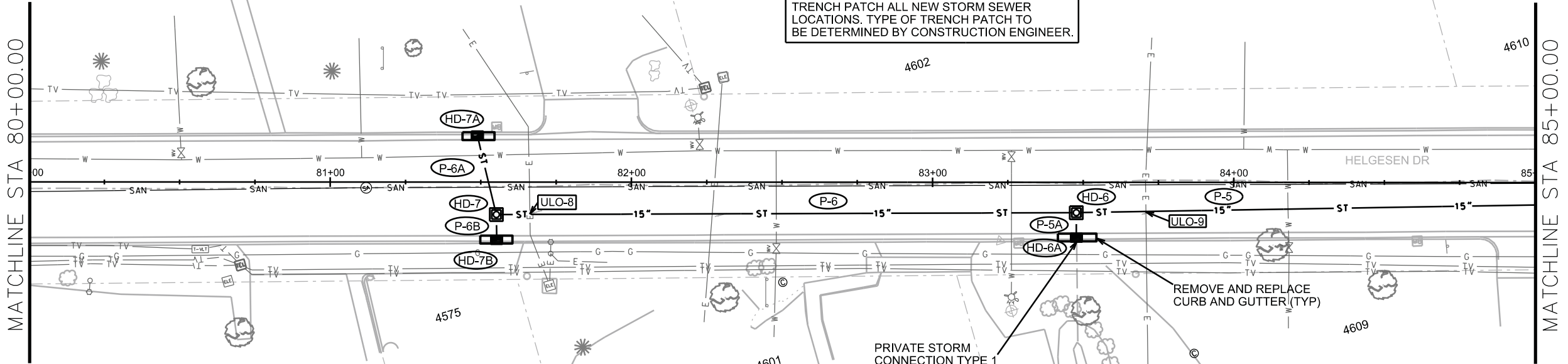
STANDARD NOTES:

- 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; U = 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 ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913, EDUNDEE@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.





NOTE:
TRENCH PATCH ALL NEW STORM SEWER
LOCATIONS. TYPE OF TRENCH PATCH TO
BE DETERMINED BY CONSTRUCTION ENGINEER.

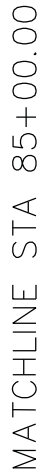


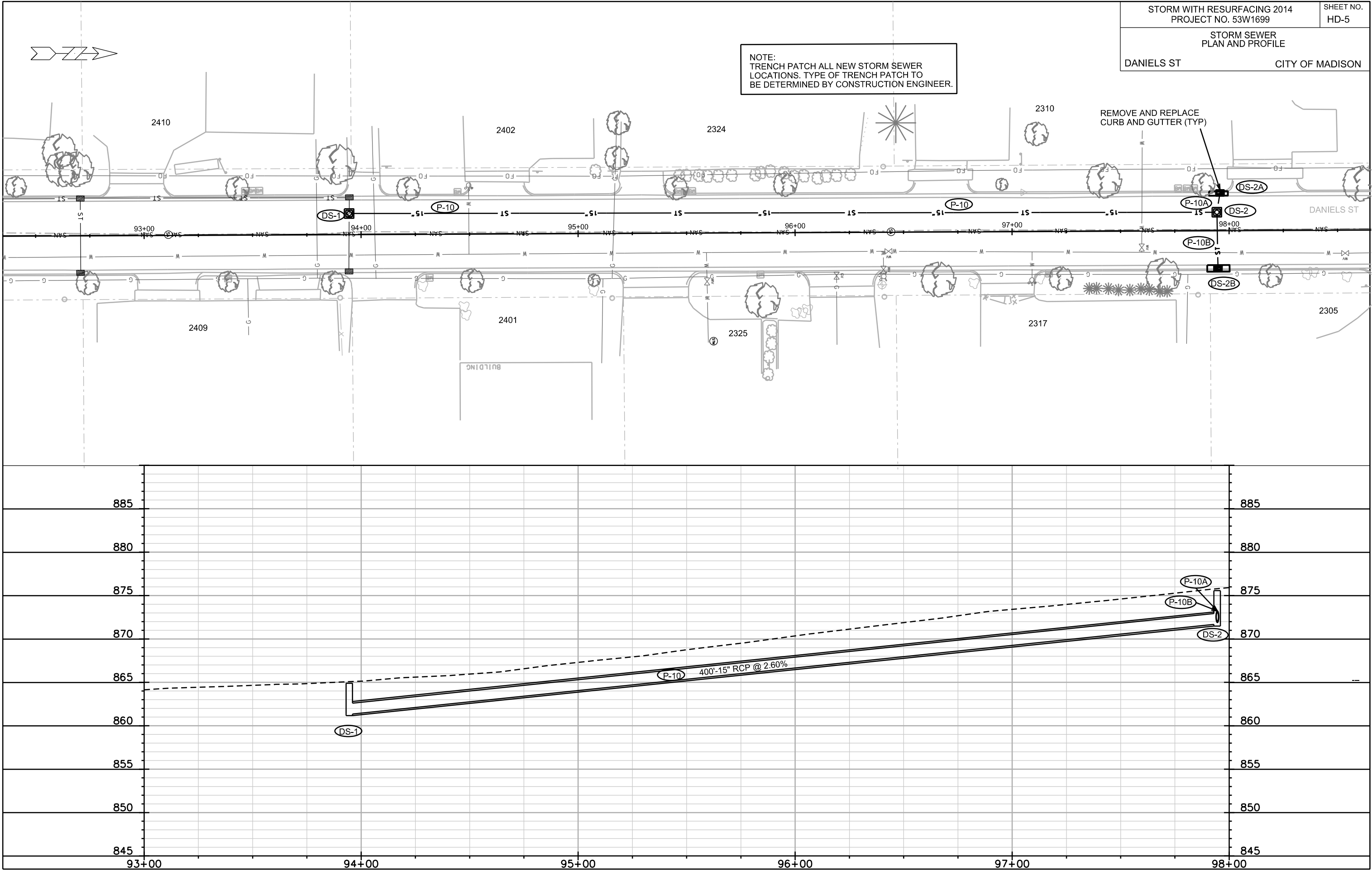
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





STORM SEWER SCHEDULE

REVISED 06/03/2014 ELD

STORM WITH RESURFACING 2014	SHEET NO.
PROJECT NO. 53W1699	HD-6
HELGESEN DR & DANIELS ST STORM SEWER SCHEDULECITY OF MADISON	

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
Helgesen Drive							
HD-0	70+48.66	LT-13.92	TAP EX IN 6653-007	897.07	894.55	2.52	TAP AT EI=893.75
HD-1	70+76.56	LT-14.00	H INLET	897.47	894.62	2.85	FP; W/ R-3067-7004-V
HD-2	71+25.00	RT-7.08	3X3 SAS	898.13	894.77	3.36	W/ R-1550-0054
HD-2A	71+25.00	RT-21.00	H INLET	898.40	895.25	3.15	W/ R-3067-7004-V
HD-3	75+25.00	RT-7.60	3X3 SAS	904.28	897.15	7.13	W/ R-1550-0054
HD-3A	75+48.87	LT-16.91	H INLET	904.45	897.77	6.68	W/ R-1878-B7G; (2)
HD-3B	75+55.67	RT-17.60	H INLET	904.96	897.30	7.66	W/ R-3067-7004-V
HD-5	85+52.31	RT-6.52	4X4 SAS	883.37	878.20	5.17	W/ R-1550-0054
HD-6	83+47.75	RT-10.07	3X3 SAS	890.95	884.00	6.95	W/ R-1550-0054
HD-6A	83+47.75	RT-18.41	H INLET	891.08	887.18	3.90	W/ R-3067-7004-V; (1)
HD-7	81+55.00	RT-10.78	3X3 SAS	903.16	898.50	4.66	W/ R-1550-0054
HD-7A	81+48.83	LT-15.50	H INLET	903.55	900.15	3.40	W/ R-3067-7004-V
HD-7B	81+55.00	RT-19.20	H INLET	903.20	899.80	3.40	W/ R-3067-7004-V

Daniels Street

DS-1	93+94.54	LT-9.75	3X3 SAS	864.90	861.35	3.55	W/ R-1550-0054
DS-2	97+94.44	LT-8.59	3X3 SAS	875.57	871.67	3.90	W/ R-1550-0054
DS-2A	97+95.90	LT-17.48	H INLET	875.33	871.97	3.36	W/ R-3067-7004-V
DS-2B	97+94.83	RT-17.15	H INLET	875.75	872.35	3.40	W/ R-3067-7004-V

STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES:
RS-1	IN 6653-006	70+58.00	LT-14.00	H INLET	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1	70+62.25	LT-14.00	TELE	TOP 4" PVC 894.05
ULO-2	70+68.42	LT-14.00	ELEC	TOP 4" PVC 892.0911 - OK
ULO-3	71+24.85	RT-17.47	TELE	TOP 5" PVC 894.72
ULO-4	73+45.16	RT-7.25	ELEC	TOP 4" PVC 899.16
ULO-5	74+21.74	RT-7.59	TELE	TOP 2" PVC 899.30
ULO-61	75+38.2	LT-11.9	FO	TOP 4" PVC 900.87
ULO-62A	75+44.5	LT-12.0	FO	TOP 4" PVC 900.50
ULO-62B	75+48.0	LT 12.2	GA	TOP 2" STEEL 901.14
ULO-71A	75+49.6	RT-17.0	FO	TOP 4" PVC 899.48
ULO-71B	75+49.6	RT-17.0	GA	TOP 2" PVC 900.73
ULO-72A	75+46.4	RT-13.8	FO	TOP 4" PVC 902.5
ULO-72B	75+43.7	RT-13.7	GA	TOP 2" PVC 902.37
ULO-73A	75+39.9	RT-13.6	FO	TOP 2" PVC 902.26
ULO-73B	75+38.1	RT-13.3	FO	TOP 4" PVC 901.16
ULO-8	81+66.26	RT-10.86	ELEC	TOP 2X4" 900.04
ULO-9	83+70.85	RT-9.73	ELEC	TOP 2X5" 885.87
ULO-EX1	82+28.7	RT-11.2	ELEC	TOP 4" PVC 895.61
ULO-EX2	85+29.2	RT5.9	ELEC	TOP 4" PVC 880.85

SPECIFIC NOTES:

- (1) PRIVATE STORM CONNECTION TYPE 1
(2) FLUME TO BE SALVAGED AND DIRECTED TO DISCHARGE INTO NEW 'H' INLET

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.
P-1	HD-0	HD-1	28	894.55	894.62
P-2	HD-1	HD-2	53	894.62	894.77
P-2A	HD-2	HD-2A	14	895.02	895.25
P-3	HD-2	HD-3	400	894.77	896.90
P-3A	HD-3	HD-3A	35	897.15	897.77
P-3B	HD-3	HD-3B	32	897.15	897.30
P-5	HD-5	HD-6	205	878.20	883.71
P-5A	HD-6	HD-6A	8	884.25	887.18
P-6	HD-6	HD-7	193	884.00	898.25
P-6A	HD-7	HD-7A	27	898.50	900.15
P-6B	HD-7	HD-7B	8	898.50	899.80

STORM PIPE REMOVALS

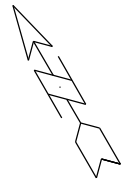
PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	HD-0	RS-1	11	N	12"	RCP	-

STANDARD NOTES:

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THRUSH LN	CITY OF MADISON
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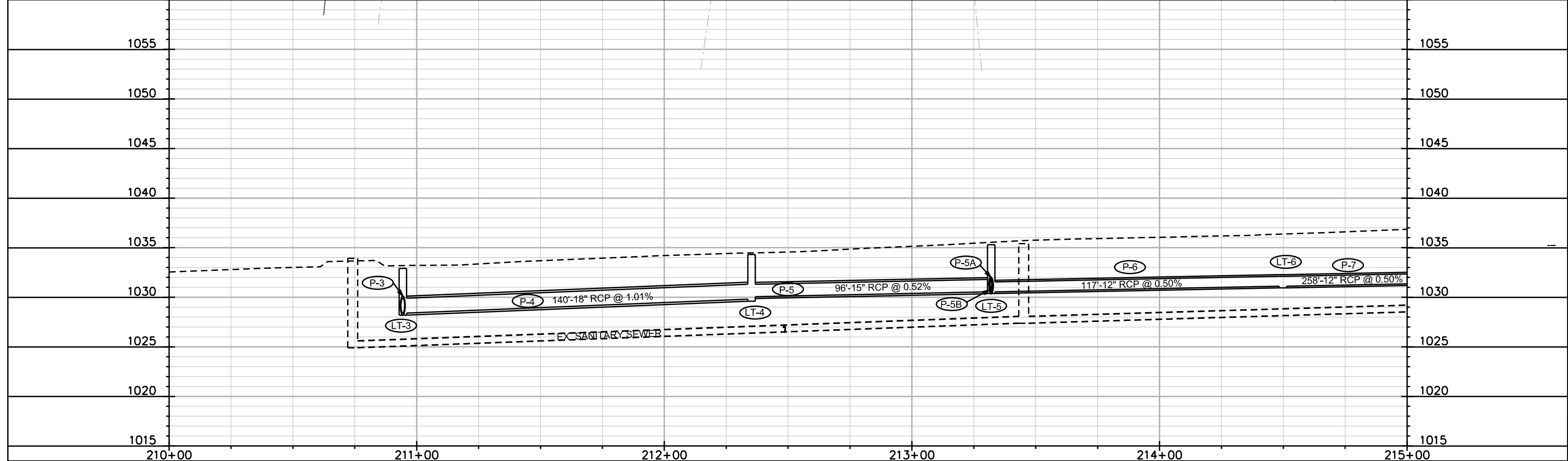
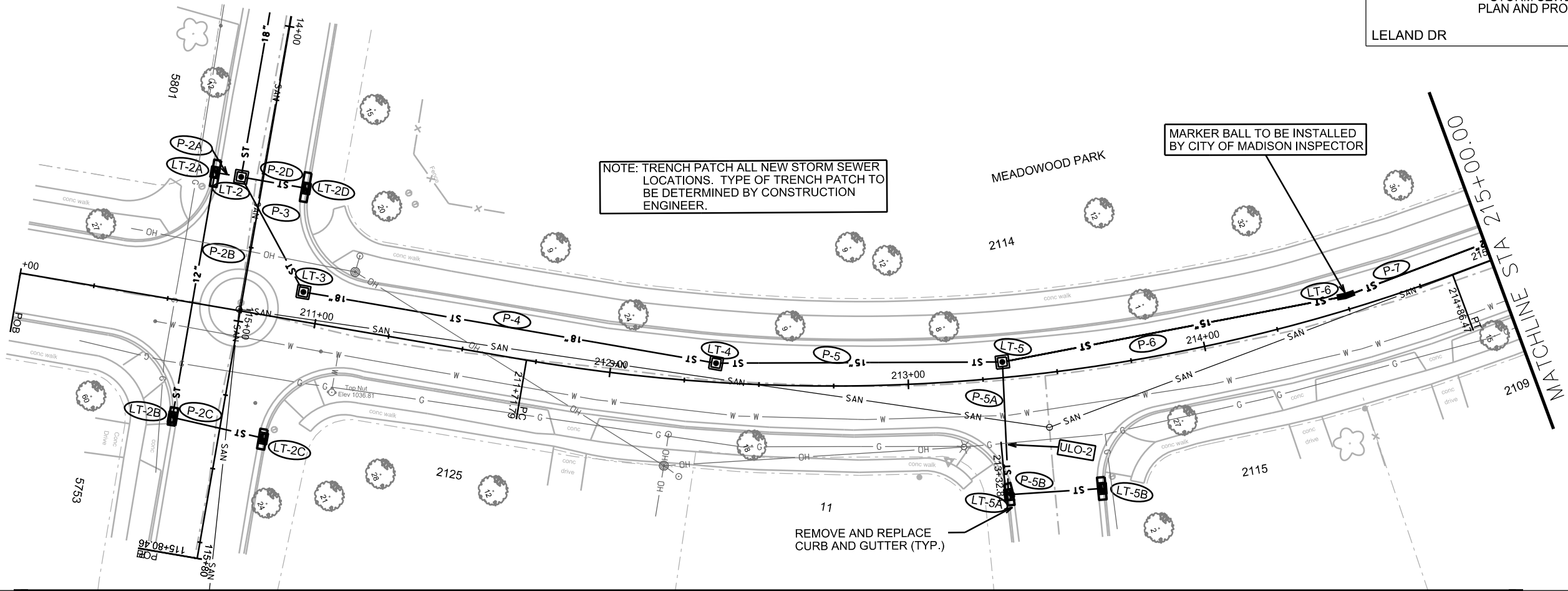
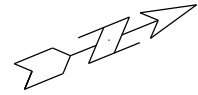
REMOVE AND REPLACE
CURB AND GUTTER (TYP.)



PLOT NAME: _____

ORIGINATOR: CITY OF MADISON. STREETS DIVISION





PLOT SCALE: _____

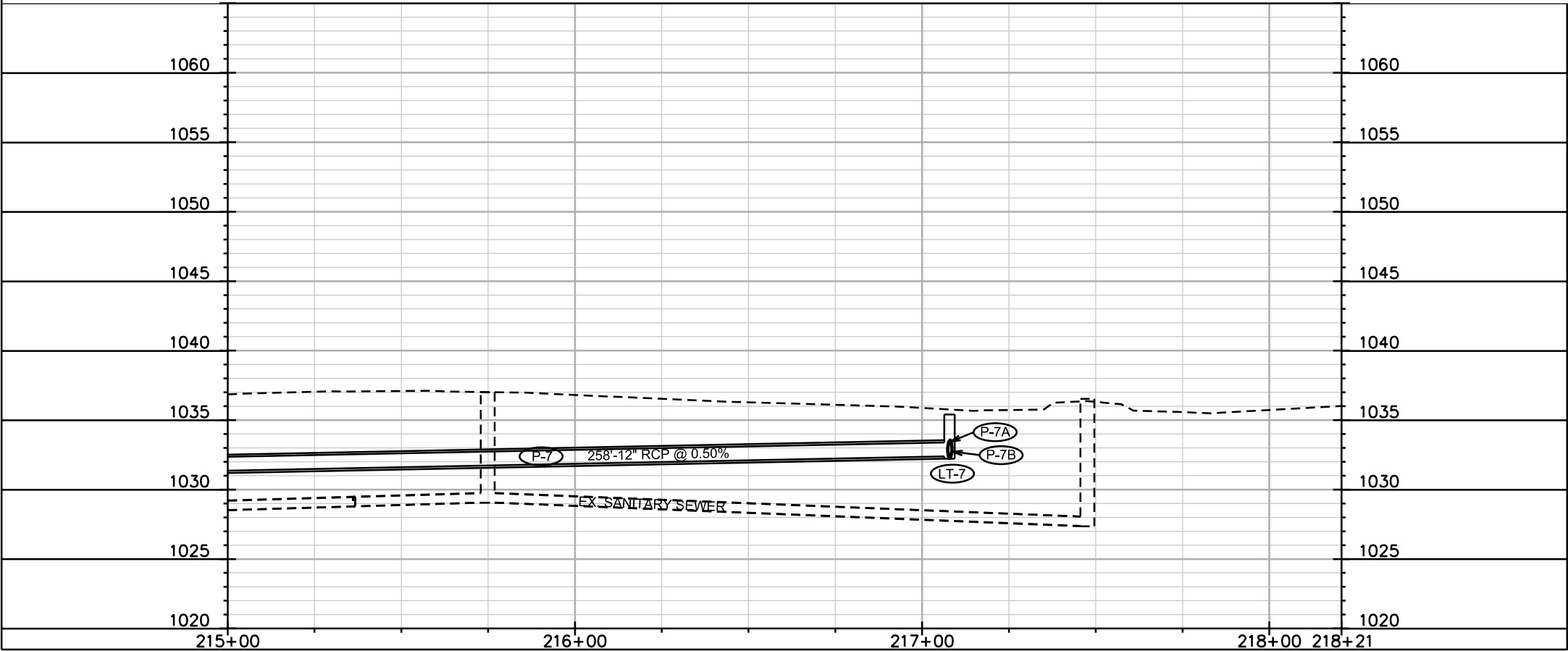
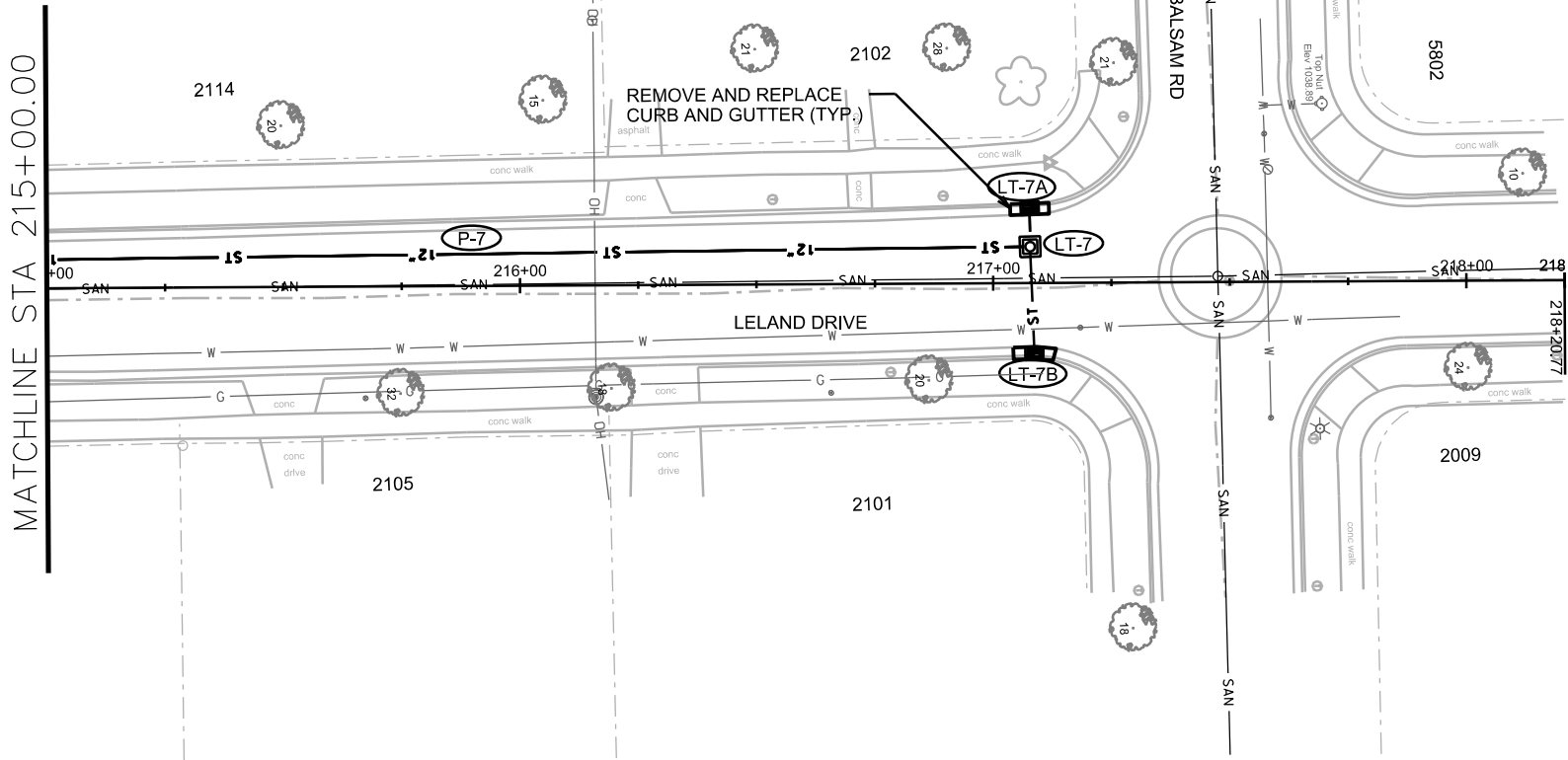
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE: TRENCH PATCH ALL NEW STORM SEWER LOCATIONS. TYPE OF TRENCH PATCH TO BE DETERMINED BY CONSTRUCTION ENGINEER.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

REVISED 08/15/2014 ELD

STORM WITH RESURFACING 2014	SHEET NO.
PROJECT NO. 53W1699	LT-4
LELAND	
STORM SEWER SCHEDULE	CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
LT-0	110+63.76	RT-7.57	TAP EX	1025.94	1022.04	3.90	TAP AT EI=1022.04
LT-1	112+00.00	RT-7.30	3X3 SAS	1028.00	1023.50	4.50	W/ R-1550-0054
LT-2	114+52.00	RT-7.30	3X3 SAS	1032.45	1027.95	4.50	FP; W/ R-1550-0054
* LT-2A	114+52.00	RT-16.73	H INLET	1032.51	1028.58	3.93	W/ R-3067-7004-V
* LT-2B	115+35.46	RT-16.20	H INLET	1033.17	1028.98	4.19	W/ R-3067-7004-V
LT-2C	115+36.98	LT-15.36	H INLET	1033.77	1030.37	3.40	W/ R-3067-7004-V
LT-2D	114+52.00	LT-14.55	H INLET	1032.38	1028.98	3.40	W/ R-3067-7004-V
LT-3	210+94.38	LT-9.80	3X3 SAS	1032.90	1028.40	4.50	FP; W/ R-1550-0054
LT-4	212+35.24	LT-6.40	3X3 SAS	1034.31	1029.81	4.50	W/ R-1550-0054
LT-5	213+32.05	LT-5.23	3X3 SAS	1035.29	1030.54	4.75	FP; W/ R-1550-0054
* LT-5A	213+20.27	RT-39.09	H INLET	1035.32	1031.00	4.32	W/ R-3067-7004-V
LT-5B	213+59.38	RT-40.73	H INLET	1036.02	1032.62	3.40	W/ R-3067-7004-V
LT-6	214+50.00	LT-4.50	12" RCP FIELD BEND	DNA	1030.60	DNA	FP; (1)
LT-7	217+07.86	LT-7.69	3X3 SAS	1035.41	1032.38	3.03	FP; W/ R-1550-0054
LT-7A	217+08.88	LT-15.60	H INLET	1035.47	1032.44	3.03	FP; W/ R-3067-7004-V
LT-7B	217+08.63	RT-14.96	H INLET	1036.33	1032.58	3.75	W/ R-3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	LT-0	LT-1	136	1022.04	1023.50	1.10%	18"	RCP	-
P-2	LT-1	LT-2	252	1023.50	1027.95	1.79%	18"	RCP	-
* P-2A	LT-2	LT-2A	9	1028.45	1028.58	2.00%	12"	RCP	-
* P-2B	LT-2A	LT-2B	83	1028.58	1028.98	0.50%	12"	RCP	-
* P-2C	LT-2B	LT-2C	31	1028.98	1030.37	4.67%	12"	RCP	-
P-2D	LT-2	LT-2D	22	1028.45	1028.98	2.70%	12"	RCP	-
P-3	LT-2	LT-3	44	1027.95	1028.40	1.13%	18"	RCP	-
P-4	LT-3	LT-4	140	1028.40	1029.81	1.01%	18"	RCP	-
P-5	LT-4	LT-5	96	1030.06	1030.54	0.52%	15"	RCP	-
* P-5A	LT-5	LT-5A	44	1030.79	1031.00	0.50%	12"	RCP	-
* P-5B	LT-5A	LT-5B	31	1031.00	1032.62	5.51%	12"	RCP	-
P-6	LT-5	LT-6	117	1030.54	1031.11	0.50%	12"	RCP	-
P-7	LT-6	LT-7	258	1031.11	1032.38	0.50%	12"	RCP	-
P-7A	LT-7	LT-7A	8	1032.38	1032.44	1.00%	12"	RCP	-
P-7B	LT-7	LT-7B	23	1032.38	1032.58	1.00%	12"	RCP	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
ULO-1	115+18.00	RT-15.90	GAS	TOP 2" GAS = 1030.40, LOWERED PIPES
ULO-2	213+30.72	RT-21.66	GAS	TOP 2" GAS = 1032.48, LOWERED PIPES

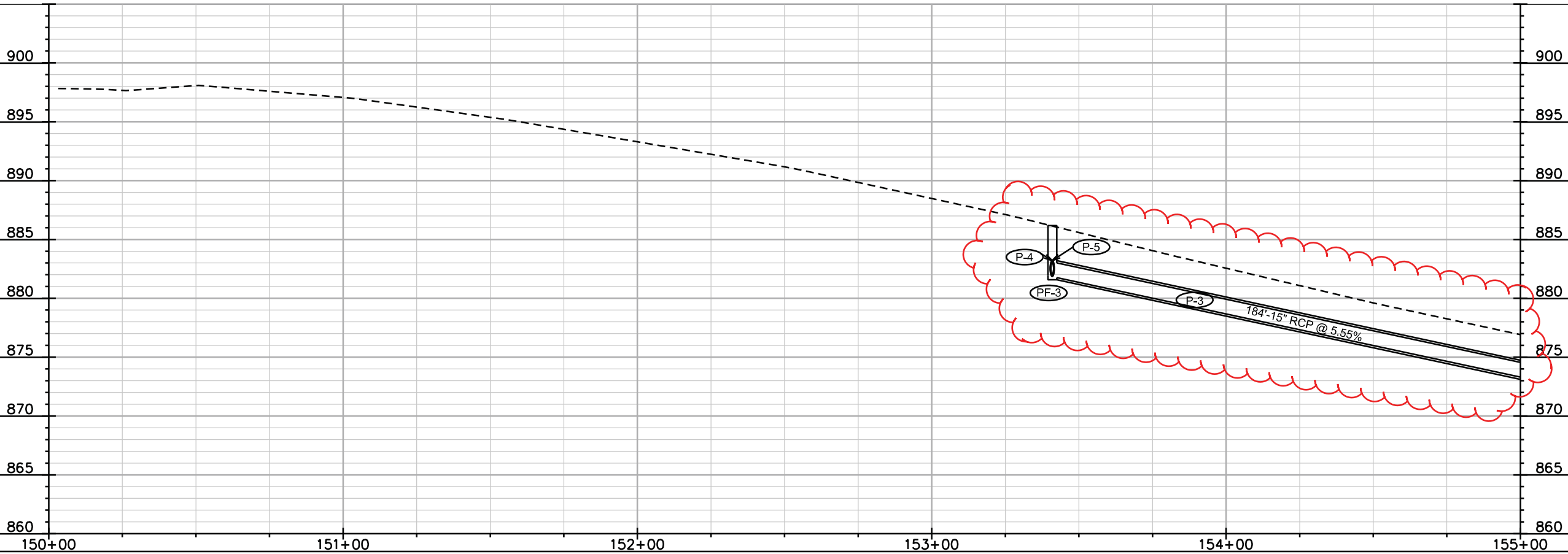
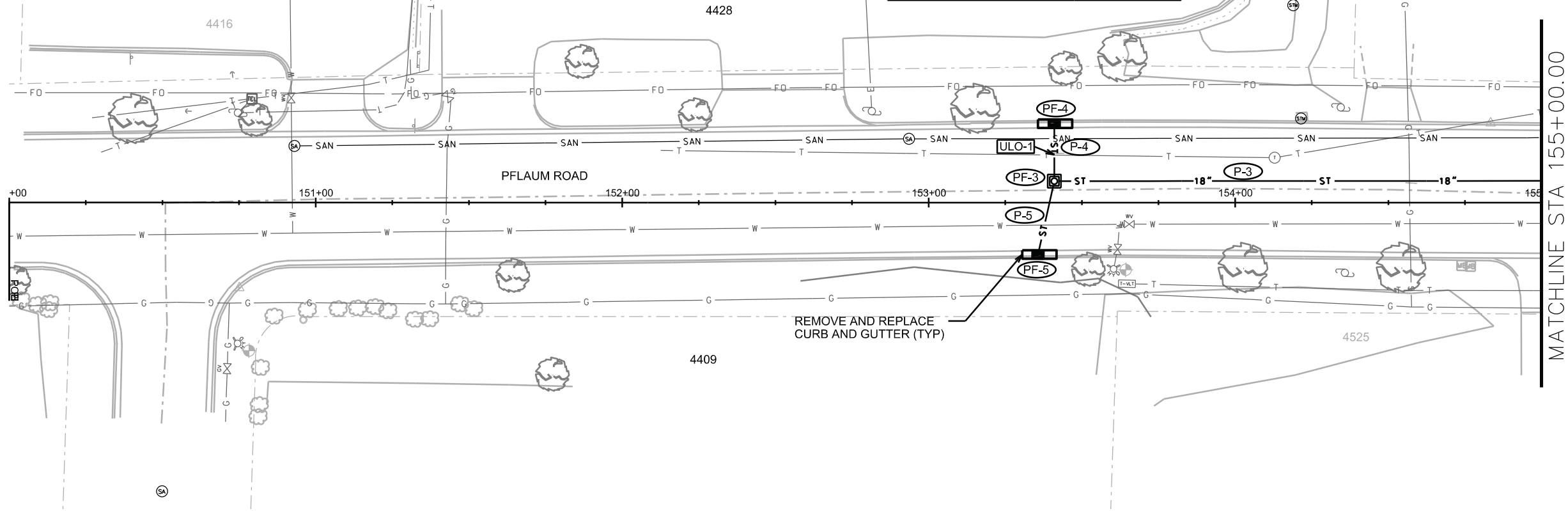
STANDARD NOTES:

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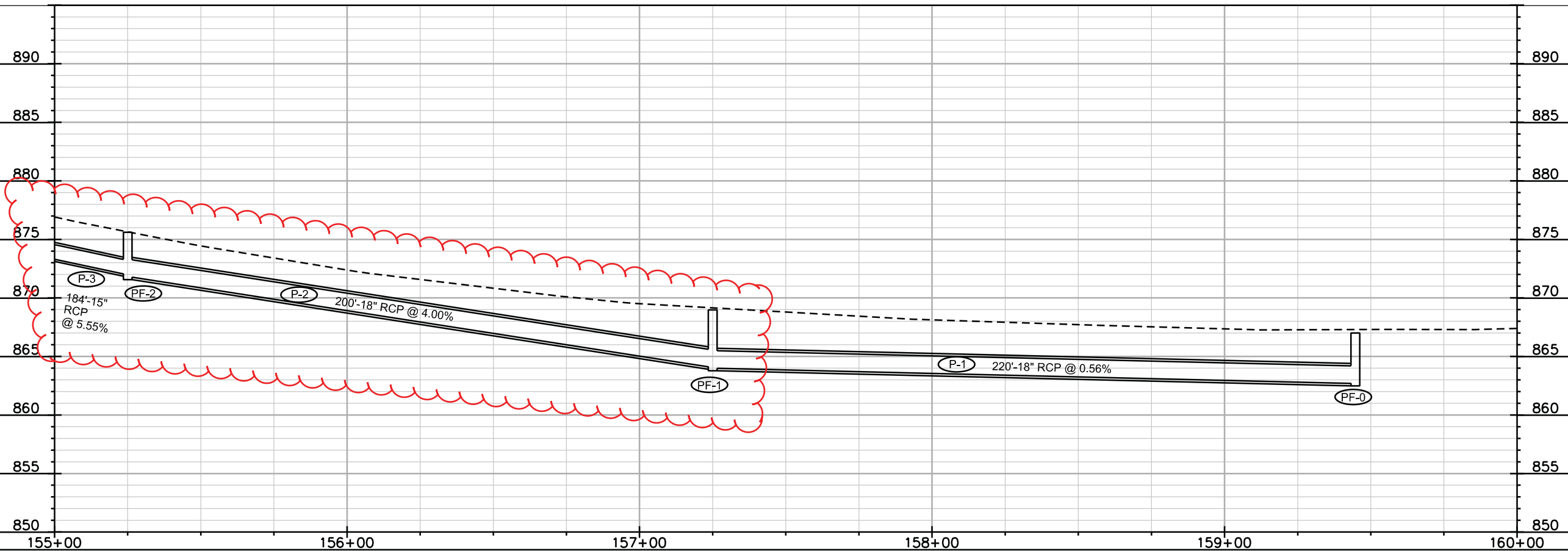
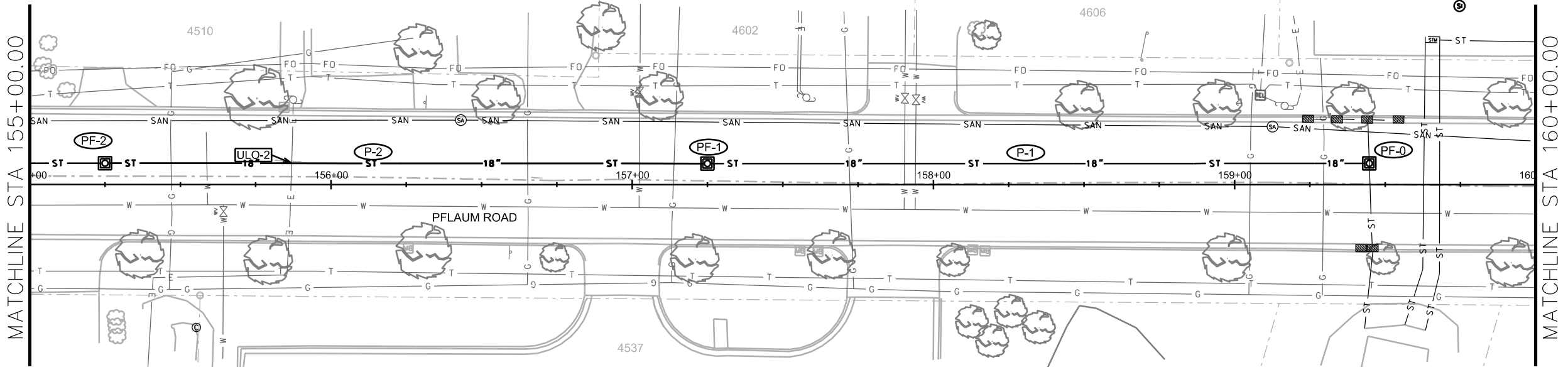
SPECIFIC NOTES

(1) MARKER BALL TO BE INSTALLED BY CITY OF MADISON INSPECTOR

NOTE:
TRENCH PATCH ALL NEW STORM SEWER
LOCATIONS. TYPE OF TRENCH PATCH TO
BE DETERMINED BY CONSTRUCTION ENGINEER.



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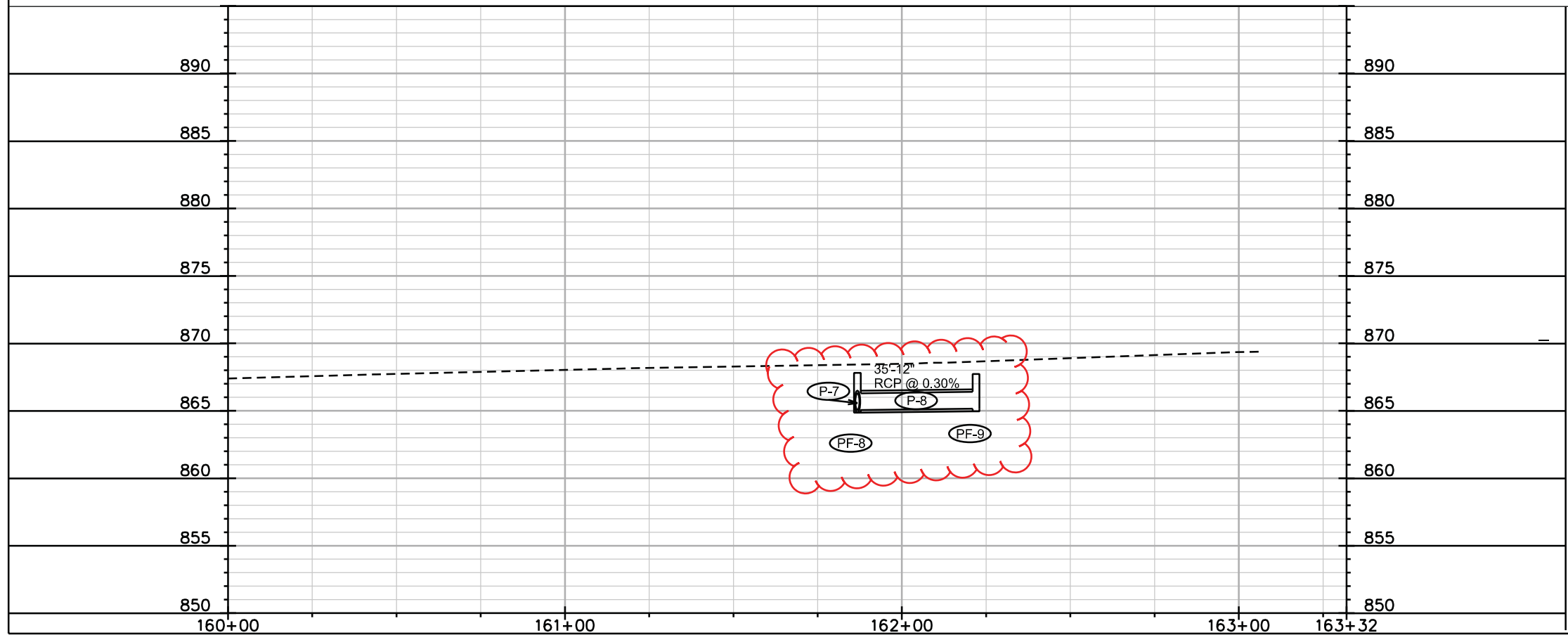
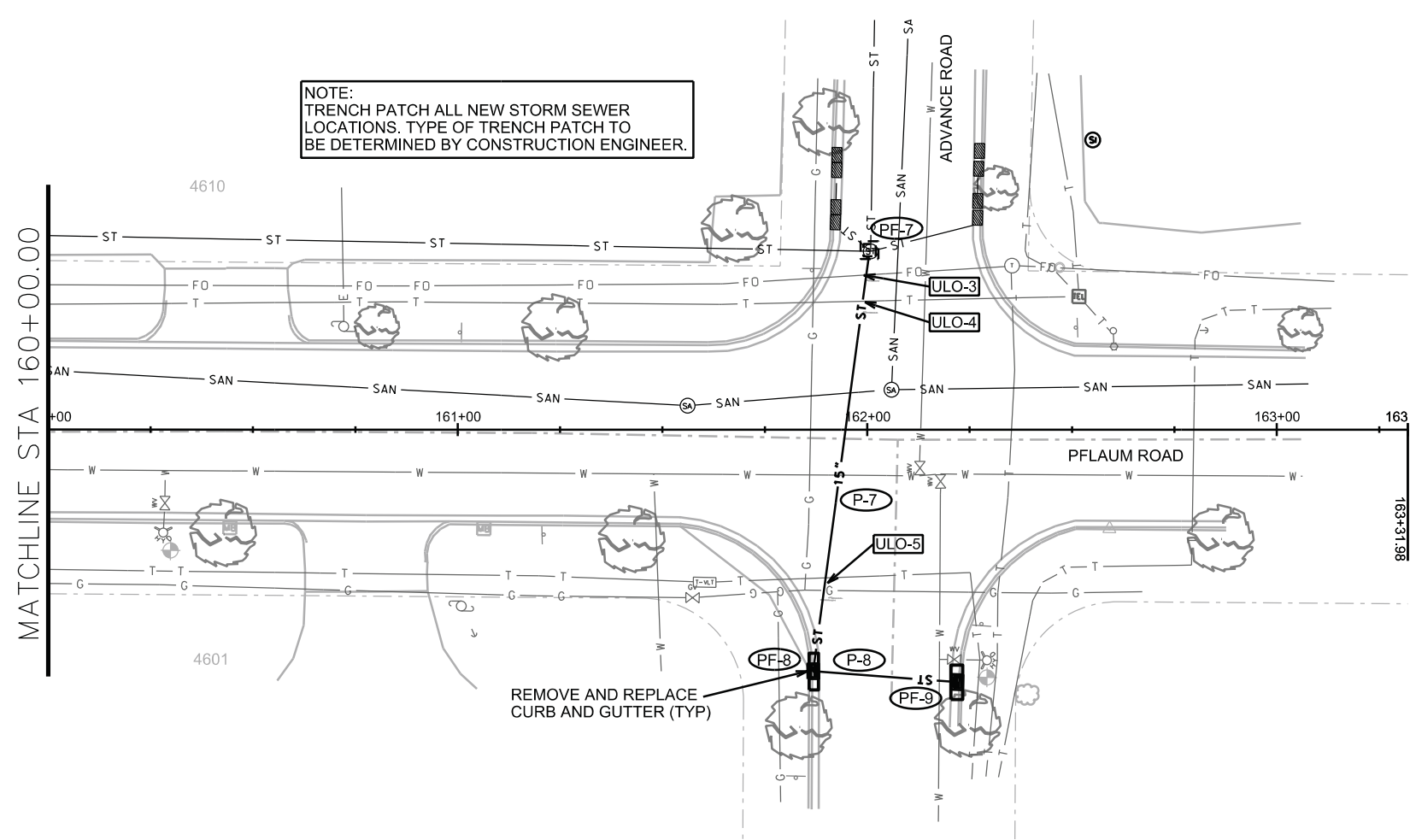


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



ORIGINATOR: CITY OF MADISON STREETS DIVISION

PLOT SCALE: ---

PLOT NAME: ---

REV / DATE: ---

STORM SEWER SCHEDULE

REVISED 05-29-2014 ELD

STORM WITH RESURFACING 2014

SHEET NO.

PROJECT NO. 53W1699

PF-4

PFLAUM RD

STORM SEWER SCHEDULE

CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
PF-0	159+44.71	LT-7.00	3X3 SAS	867.00	862.67	4.33	W/ R-1550-0054
PF-1	157+25.00	LT-7.00	3X3 SAS	868.97	864.00	4.97	W/ R-1550-0054
* PF-2	155+25.00	LT-7.00	3X3 SAS	875.60	871.88	3.72	W/ R-1550-0054; FP
PF-3	153+41.00	LT-7.00	3X3 SAS	886.18	881.92	4.26	W/ R-1550-0054
PF-4	153+40.53	LT-26.85	H INLET	885.92	882.52	3.40	W/ R-3067-7004-V
PF-5	153+35.65	RT-17.96	H INLET	886.26	882.55	3.71	W/ R-3067-7004-V
* PF-7	162+00.00	LT-43.57	TAP	DNA	864.75	DNA	EX AS 6754-007
* PF-8	161+86.00	RT-59.00	H INLET	867.81	865.05	2.76	W/ R-3067-7004-V; FP
* PF-9	162+23.00	RT-61.64	H INLET	867.72	865.15	2.57	W/ R-3067-7004-V; FP

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	PF-0	PF-1	220	862.67	864.00	0.56%	18"	RCP	-
* P-2	PF-1	PF-2	200	864.00	871.88	4.00%	18"	RCP	-
* P-3	PF-2	PF-3	184	871.88	881.92	5.55%	15"	RCP	NCM
* P-4	PF-3	PF-4	19	882.17	882.52	2.15%	12"	RCP	-
* P-5	PF-3	PF-5	25	882.17	882.55	1.73%	12"	RCP	-
* P-7	PF-7	PF-8	104	864.75	865.05	0.30%	12"	RCP	NCM
* P-8	PF-8	PF-9	35	865.05	865.15	0.30%	12"	RCP	-

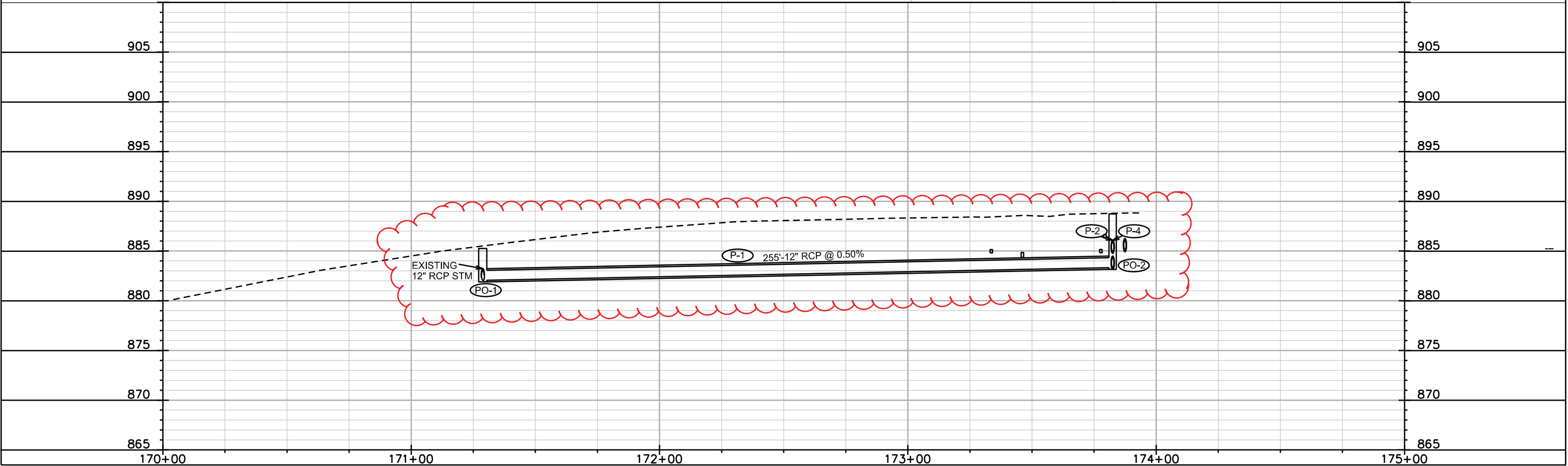
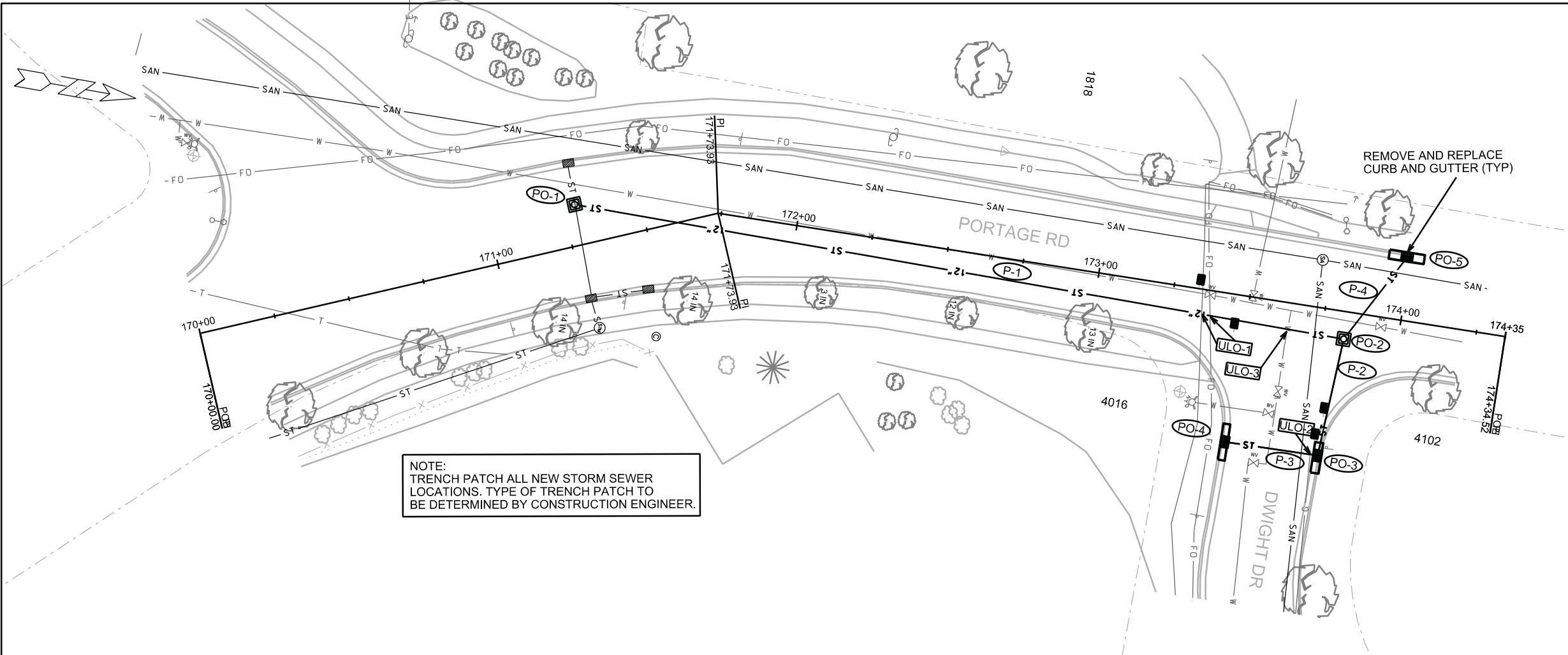
ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1	153+41.00	LT-15.00	TELEPHONE	TOP 12"X18" FIBER CONC DUCT = 850.28
* ULO-2	155+87.00	LT-6.90	ELEC	TOP 6" ELEC PVC = 877.1053
* ULO2A	155+82.20	LT-8.00	TEL PVC	TOP 1 INCH TEL PVC = 876.8014
* ULO-3	162+00.00	LT-37.66	FO	TOP 2 IN TEL PVC = 864.5393
* ULO-4	161+99.00	LT-31.36	TELEPHONE	TOP 3X4 TEL PVC = 862.5958
* ULO-5	161+90.00	RT-37.50	TELEPHONE & GAS	TOP 2 IN GAS STEEL = 863.1427
* ULOEX-1	154+56.60	LT-6.40	GAS	TOP 5" TEL PVC = 861.5423
* ULO-EX2	156+67.40	LT-2.30	GAS	TOP 2" GASSTEEL = 875.6895
				TOP 2" GAS STEEL = 865.0668

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REVISED 5/29/14 ED



STORM SEWER SCHEDULE

REVISED 05-29-2014 ELD

STORM WITH RESURFACING 2014	SHEET NO.
PROJECT NO. 53W1699	PO-2
PORTAGE RD	
STORM SEWER SCHEDULE	CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
PO-1	171+28.70	LT-13.00	3X3 SAS	885.25	882.06	3.19	W/ R-1550-0054
* PO-2	173+82.50	RT-9.00	3X3 SAS	888.72	883.32	5.40	W/ R-1550-0054
* PO-3	173+81.00	RT-47.90	H INLET	889.19	884.00	5.19	W/ R-3067-7004-V
PO-4	173+47.90	RT-48.00	H INLET	889.69	886.29	3.40	W/ R-3067-7004-V
PO-5	173+99.00	LT-22.00	H INLET	888.95	885.55	3.40	W/ R-3067-7004-V

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-1	PO-1	PO-2	255	882.06	883.32	0.50%	12"	RCP	-
* P-2	PO-2	PO-3	39	883.32	884.00	1.89%	12"	RCP	-
* P-3	PO-3	PO-4	31	884.00	886.29	7.98%	12"	RCP	-
P-4	PO-2	PO-5	34	884.92	885.55	2.04%	12"	RCP	-

ULO SCHEDULE

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
* ULO-1	173+37.00	RT-8.00	TV & FO	TOP 2" 885.1401
* ULO-2	173+77.44	RT-48.00	TEL	TOP 2" 886.6464
* ULO-3	173+64+00	RT-8.50	ELEC	TOP 2X4" PVC 884.8520

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
- 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, OR FAX SHOP DRAWINGS TO (608)264-9275.

SHEET NO.
W-1

DESIGNER: KBM

INSULATE, TYP.

STA 303+50.6 /4.1' LT
6-IN VALVE

ULO W-1
ATT DUCT

STA 300+50.5 /17.3' RT.
CUT IN & CONNECT TO
EX. 12-IN X 6-IN CROSS;
INSTALL 12-IN CAP
ON EX. MAIN

STA 300+58.5 /17.4' R
12-IN 45° BEND

STA 300+54.5 /17.3' RT
12-IN VALVE

070931104023
1221 GILBERT RD
NECKVATAL, DANIEL B
CATHERINE A NECKVATAL

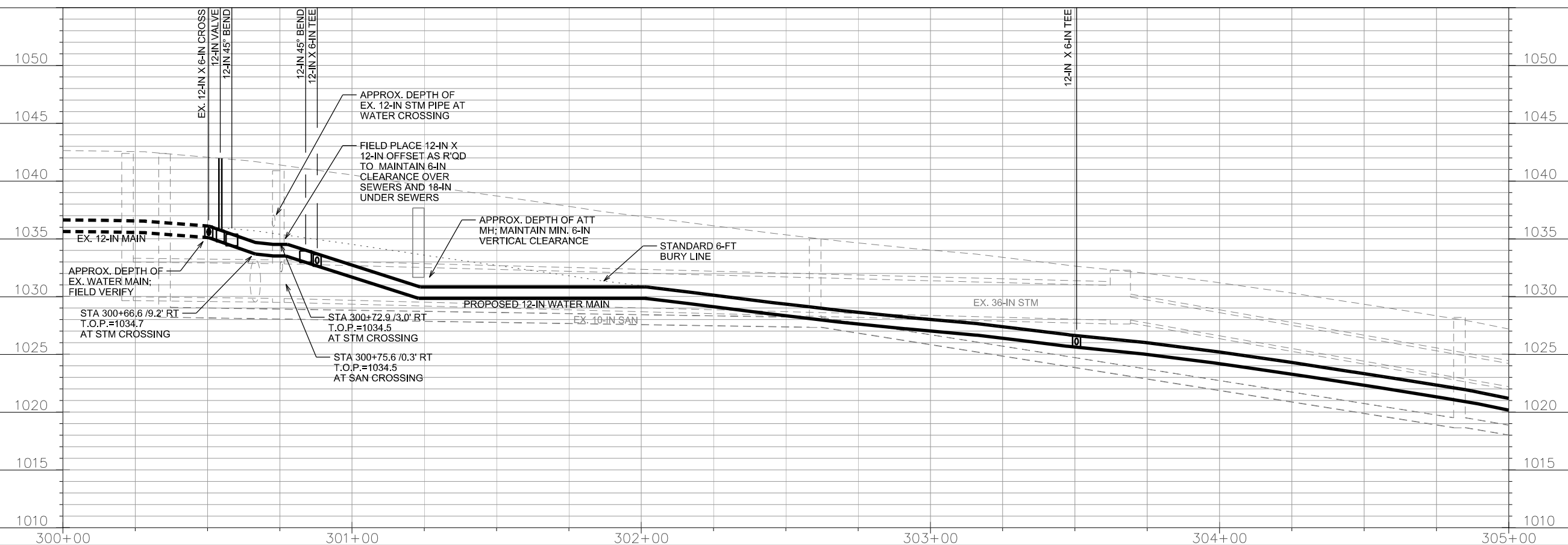
INSULATE

WN2
1-IN
INSULATE

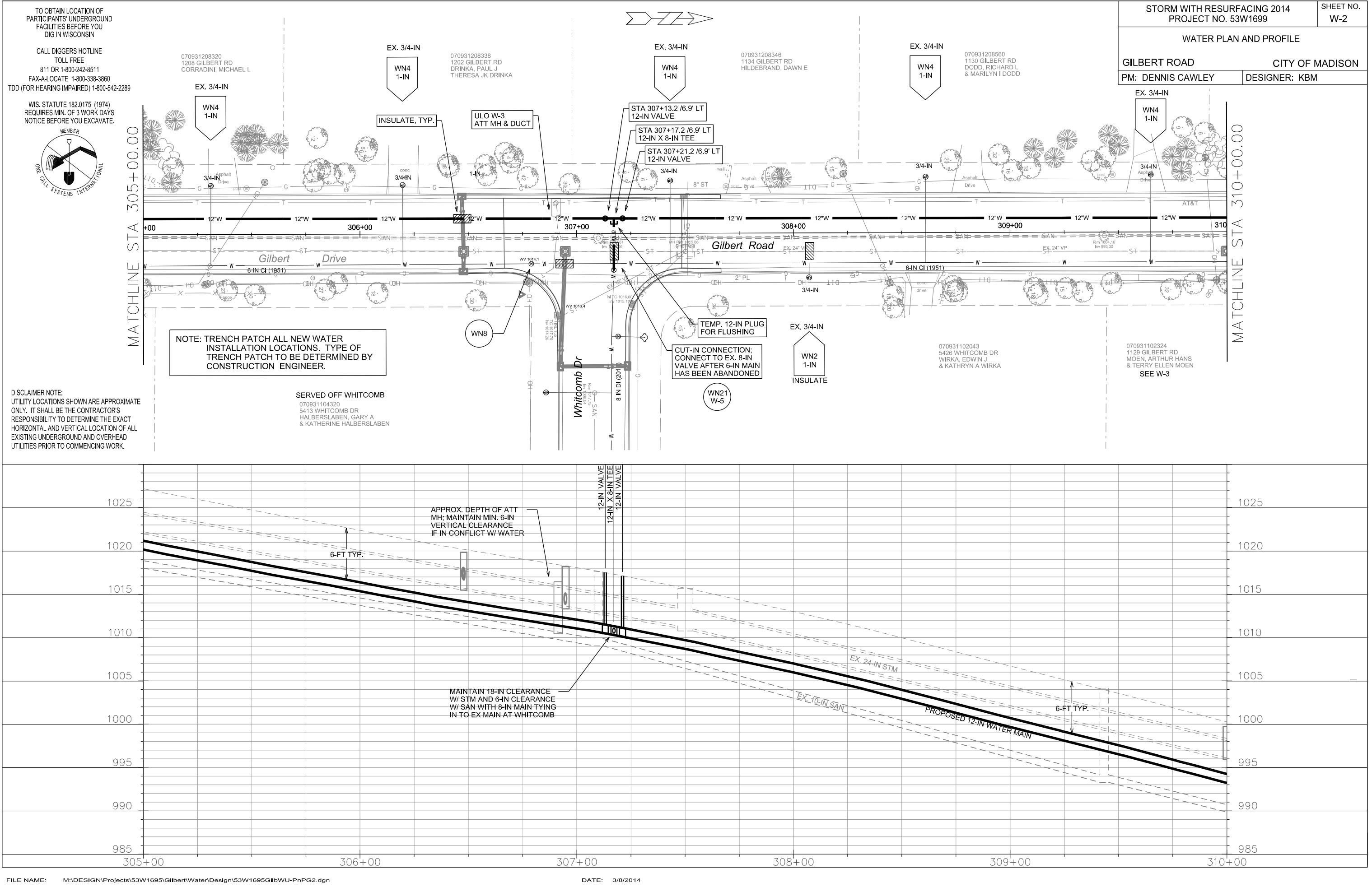
070931104015
1217 GILBERT RD
STAATS, CURTIS & PATRICIA

070931104338
1209 GILBERT RD
HEINZELMAN, DAVID W
& SHARON F HEINZELMAN

DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE
ONLY. IT SHALL BE THE CONTRACTOR'S
RESPONSIBILITY TO DETERMINE THE EXACT
HORIZONTAL AND VERTICAL LOCATION OF ALL
EXISTING UNDERGROUND AND OVERHEAD
UTILITIES PRIOR TO COMMENCING WORK.

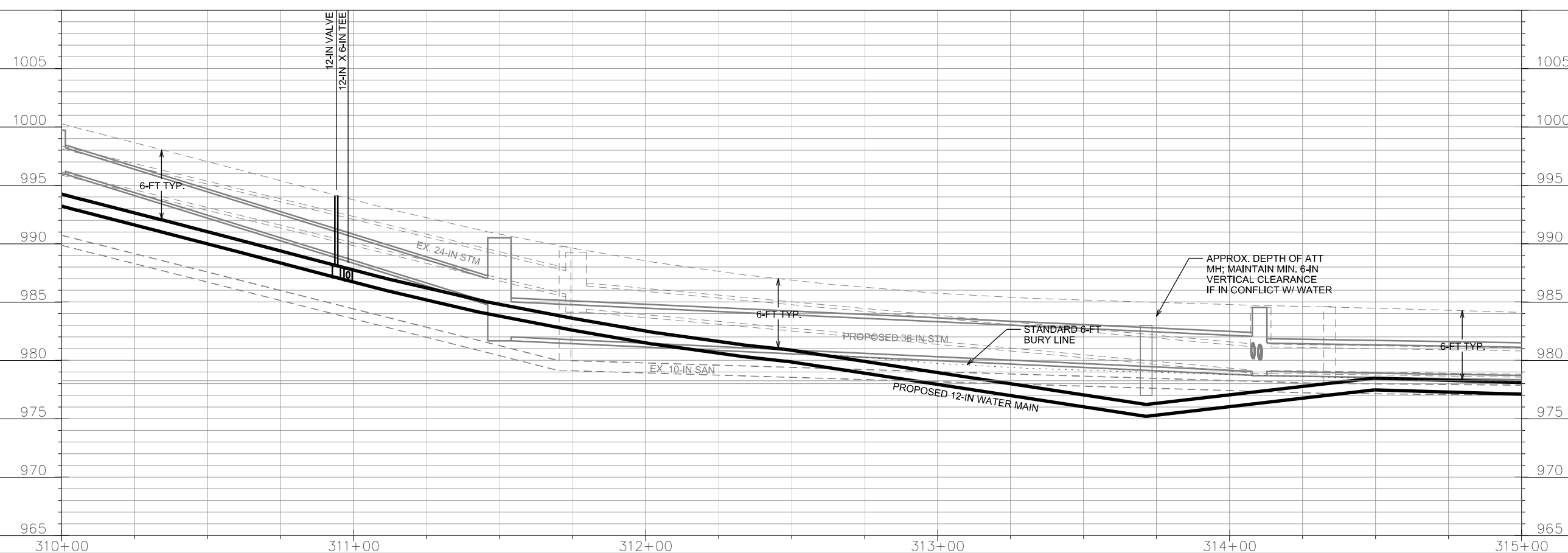
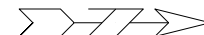


DATE: 3/8/2014

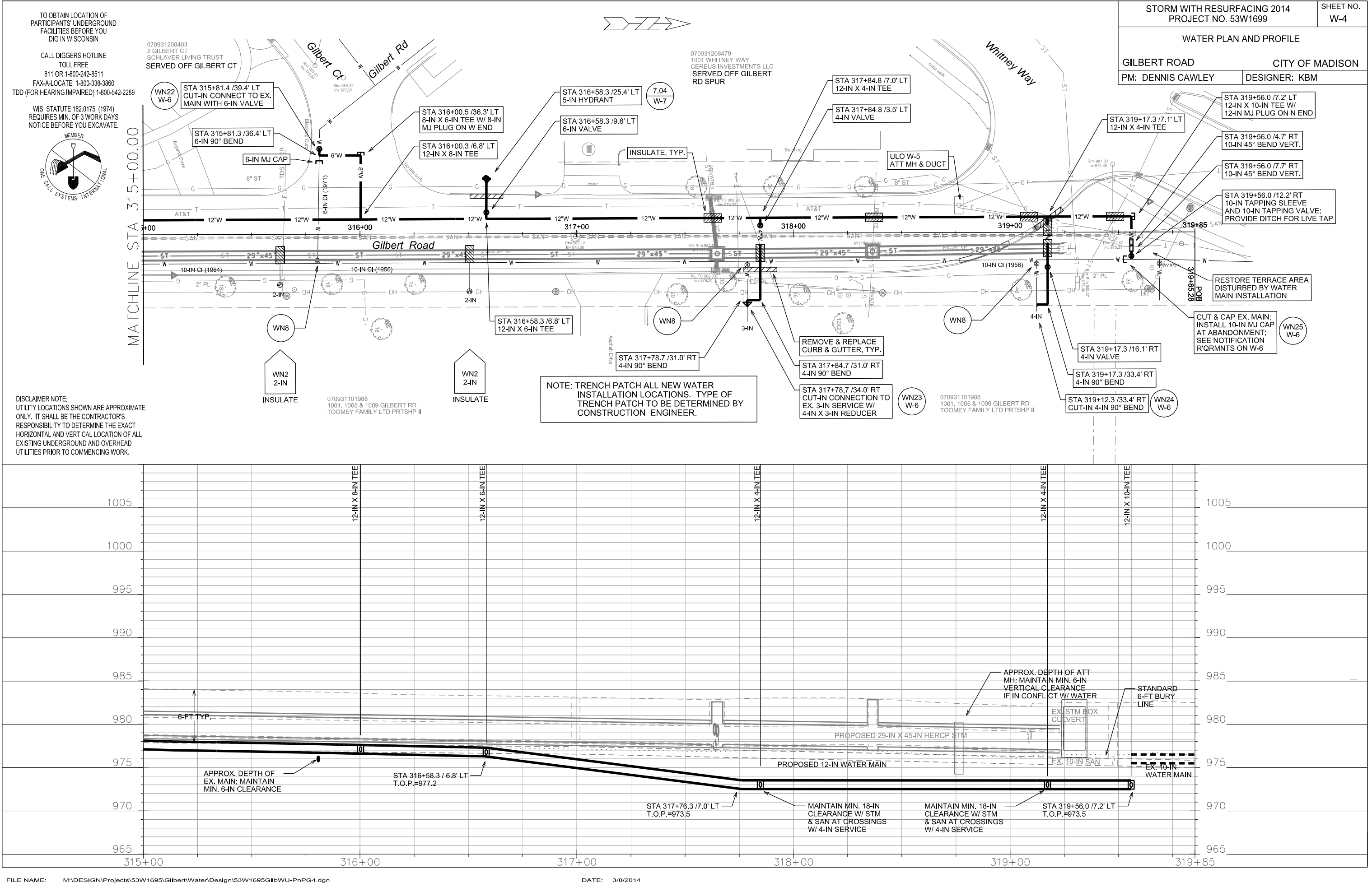


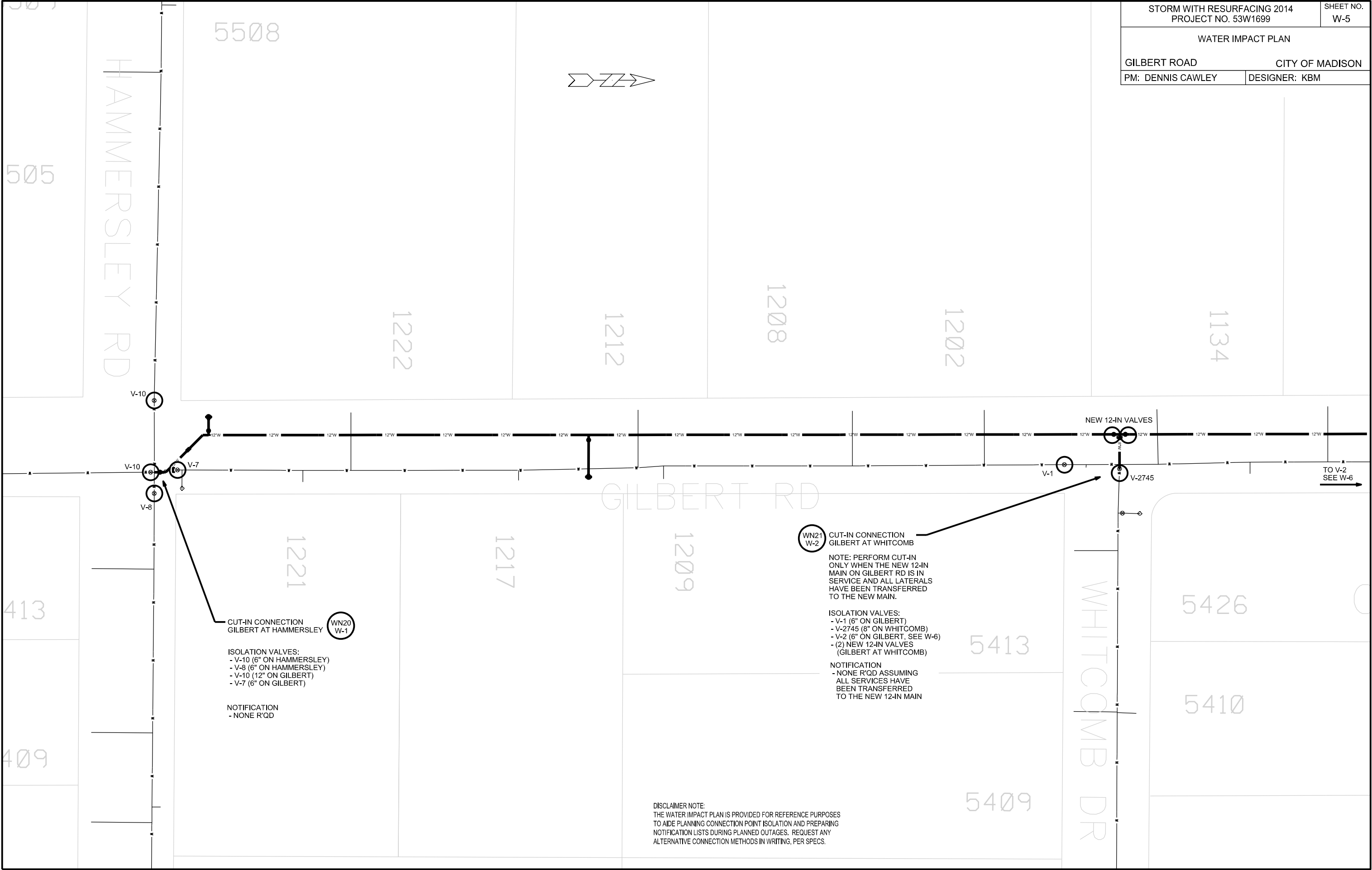
ORIGINATOR: CITY OF MADISON STREETS DIVISION

MATCHLINE STA 315+00.00



DATE: 3/8/2014





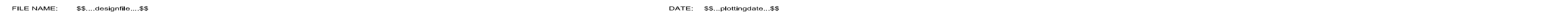
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

GILBERT ROAD		CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM	



CONSTRUCTION NOTES:

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

100-FT - 4-IN PIPE	4 - 4-IN 90° BEND
100-FT - 6-IN PIPE	1 - 6-IN 90° BEND
60-FT - 8-IN PIPE	
25-FT - 10-IN PIPE	2 - 10-IN 45° BEND
1940-FT - 12-IN PIPE	2 - 12-IN 45° BEND
2470-FT - POLYWRAP	1 - 8-IN MJ PLUG
	1 - 12-IN MJ PLUG
2 - 4-IN VALVE & BOX	1 - 6-IN MJ CAP
5 - 6-IN VALVE & BOX	1 - 10-IN MJ CAP
4 - 12-IN VALVE & BOX	1 - 12-IN MJ CAP
1 - 8-IN X 6-IN TEE	4 - 5-IN HYDRANT
2 - 12-IN X 4-IN TEE	176-FT - 2-IN STYROFOAM INSULATION
4 - 12-IN X 6-IN TEE	1-IN COPPER (AS R'QD)
2 - 12-IN X 8-IN TEE	1.5-IN COPPER (AS R'QD)
1 - 12-IN X 10-IN TEE	2-IN COPPER (AS R'QD)
1 - 4-IN X 3-IN REDUCER	
1 - 12-IN X 12-IN OFFSET	

MATERIALS SUPPLIED BY CITY:

- 1 - 10-IN X 10-IN TAPPING SLEEVE & VALVE

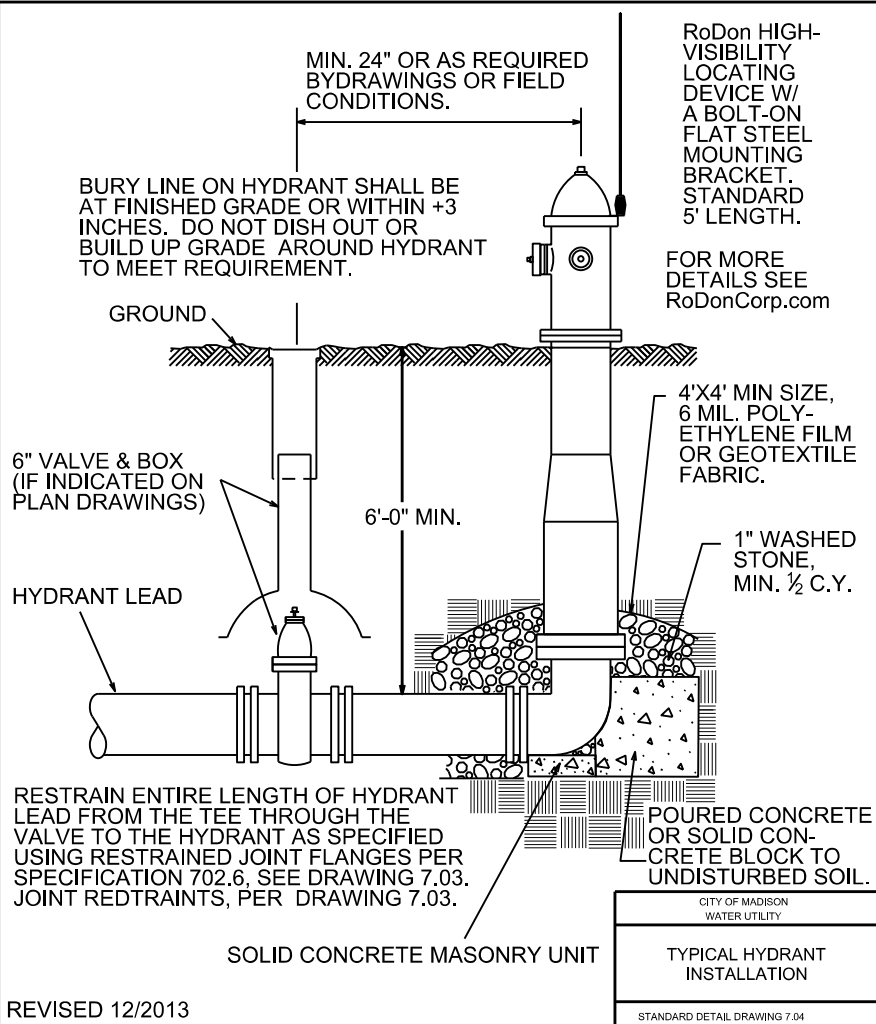
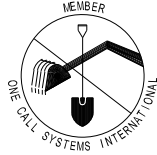
REUSED MATERIALS

NONE

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.



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STORM WITH RESURFACING 2014 PROJECT NO. 53W1699	SHEET NO. W-7
WATER ESTIMATE OF MATERIALS	
GILBERT RD	CITY OF MADISON
PM: DENNIS CAWLEY	DESIGNER: KBM

