

Madison, Wisconsin

CITY OF MADISON

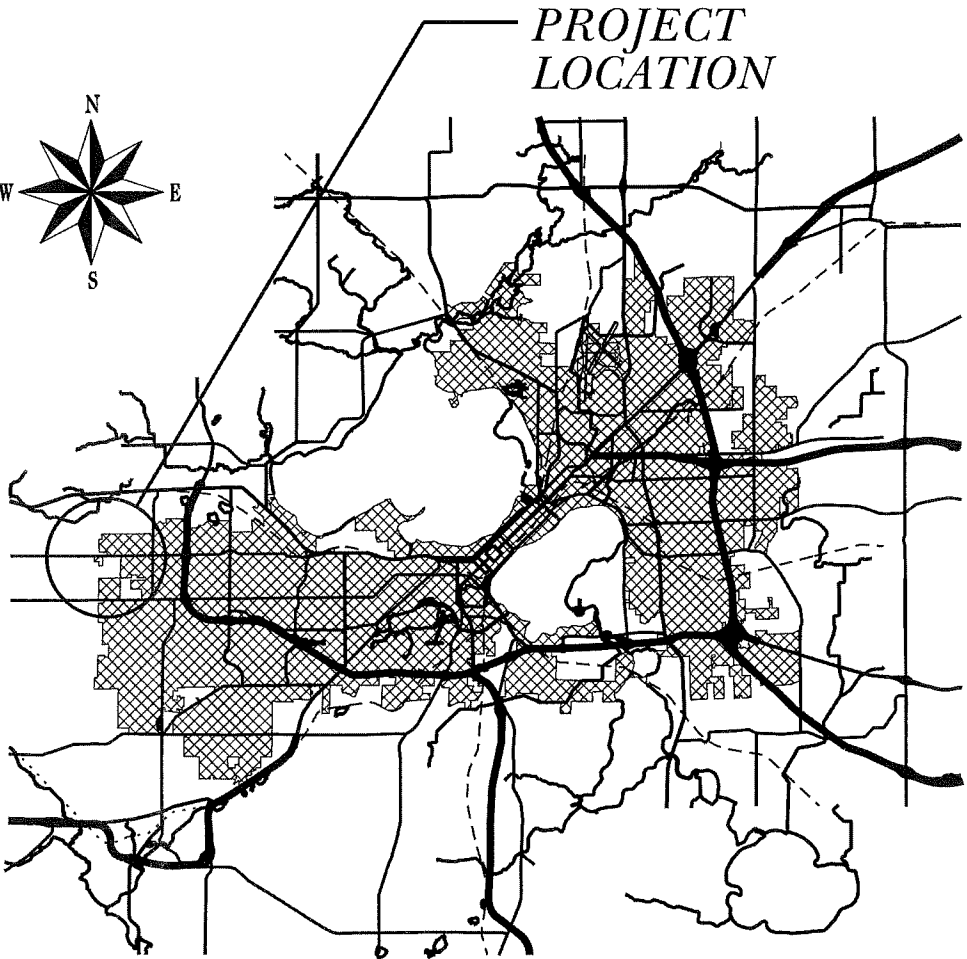
CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER EXTENSION

THE WILLOWS – OFFSITE UTILITIES ONLY

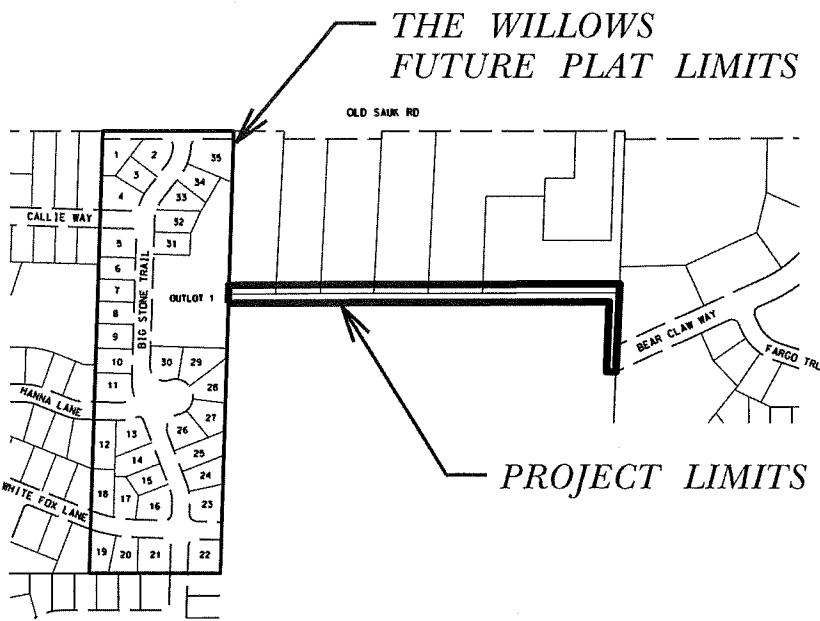
PROJECT NO. 10513
CONTRACT NO. 2419



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ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	CAUTION



PUBLIC IMPROVEMENT PROJECT
APPROVED

FEB 24, 2015

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

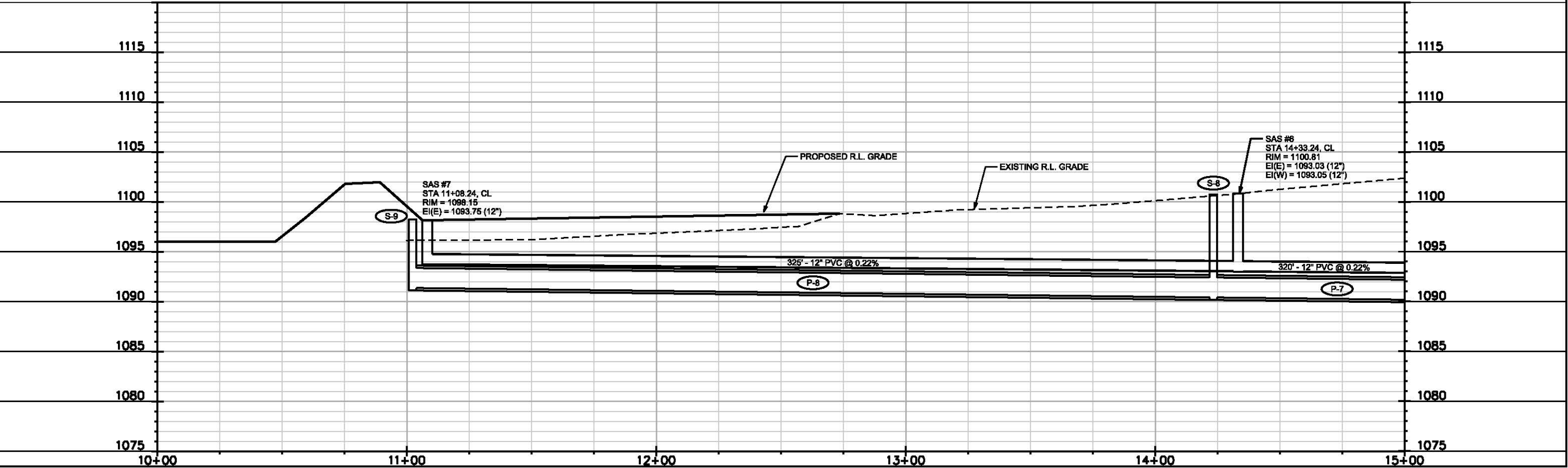
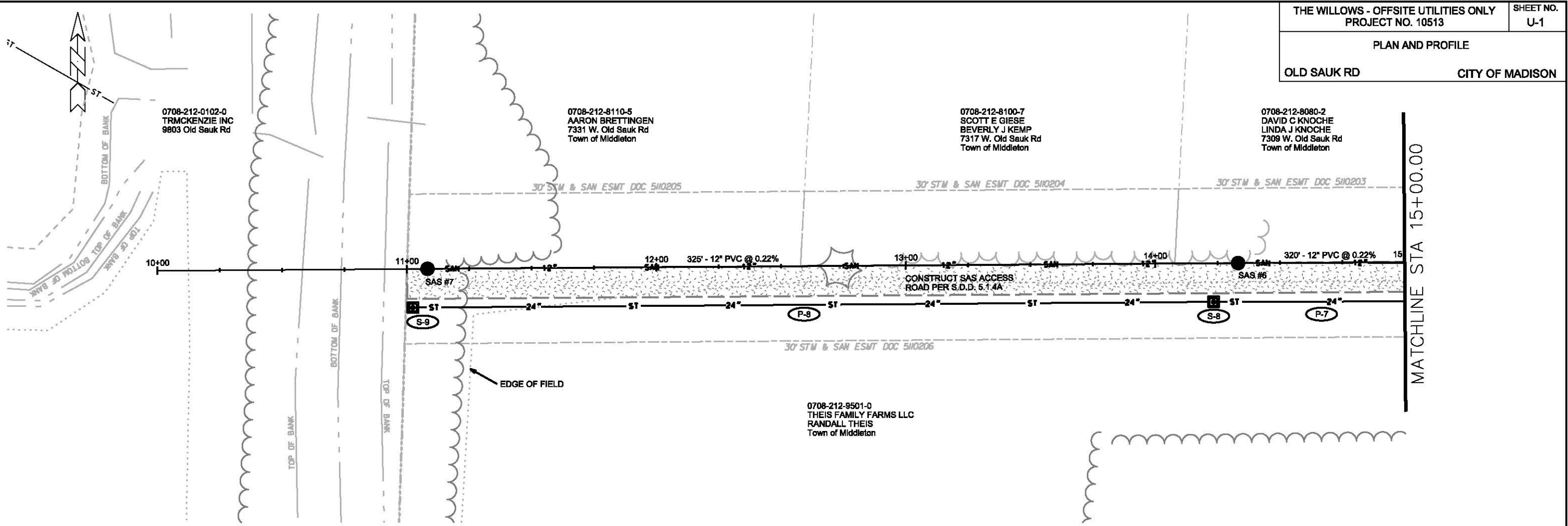
Michael R. O'Leary 3/25/2014
City Engineer Date

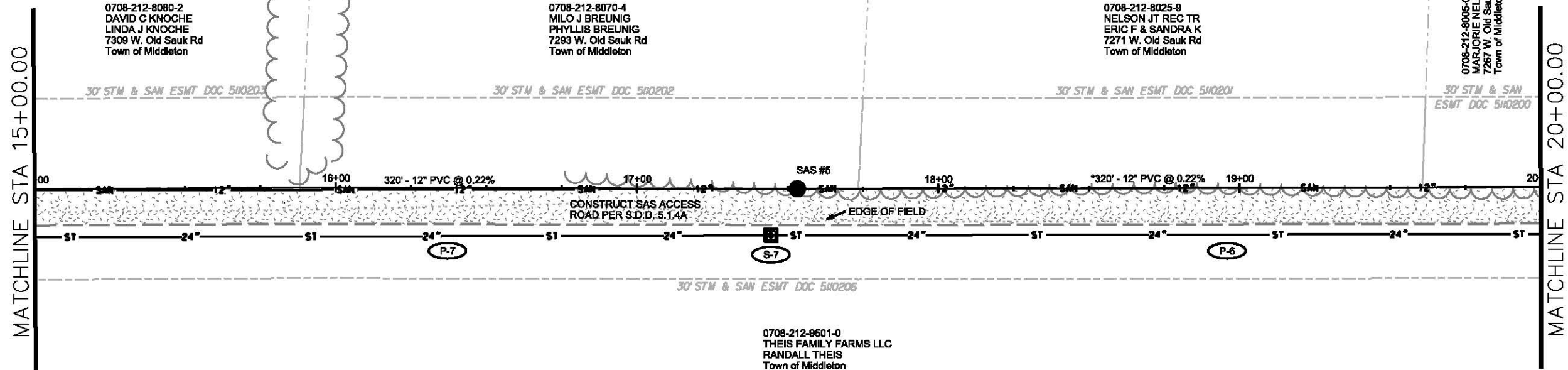
SANITARY SEWER
DESIGNED BY:

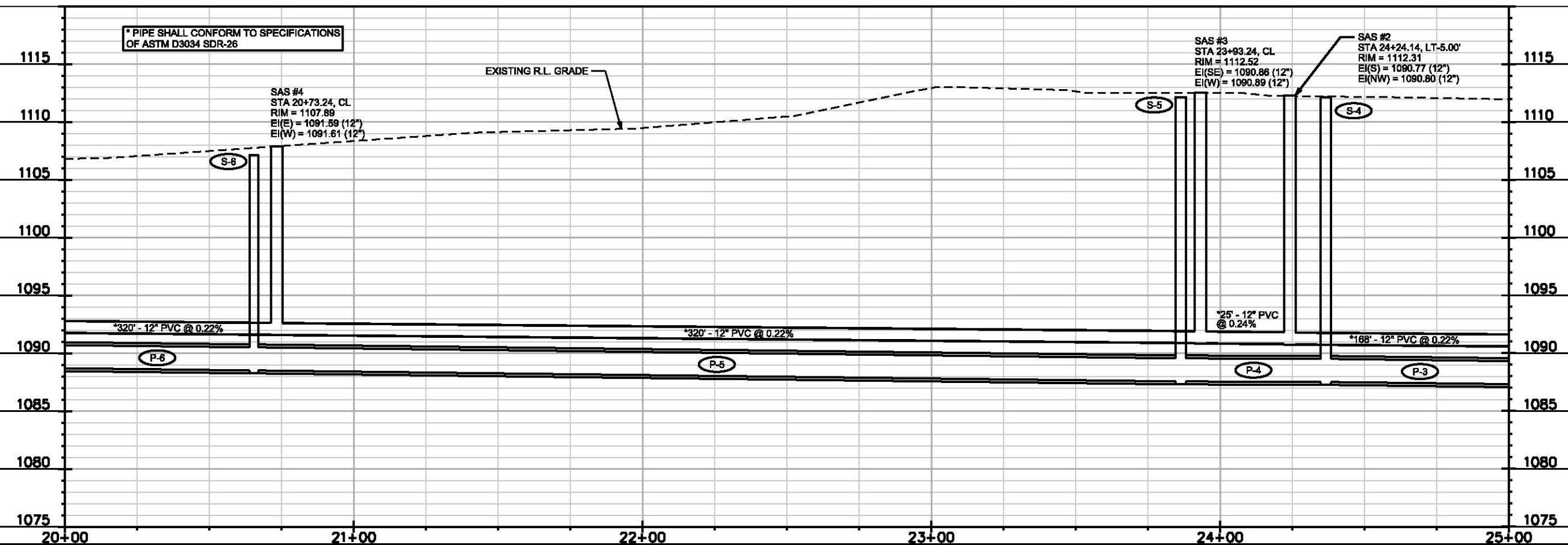
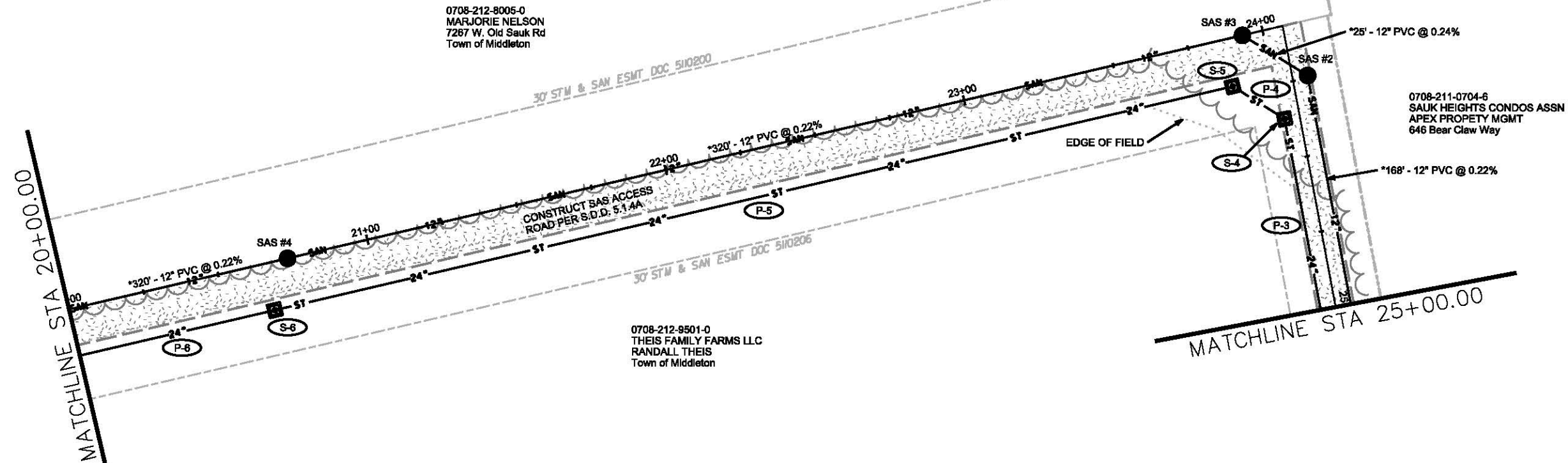
Professional Engineer
MADISON
WI
3/25/15

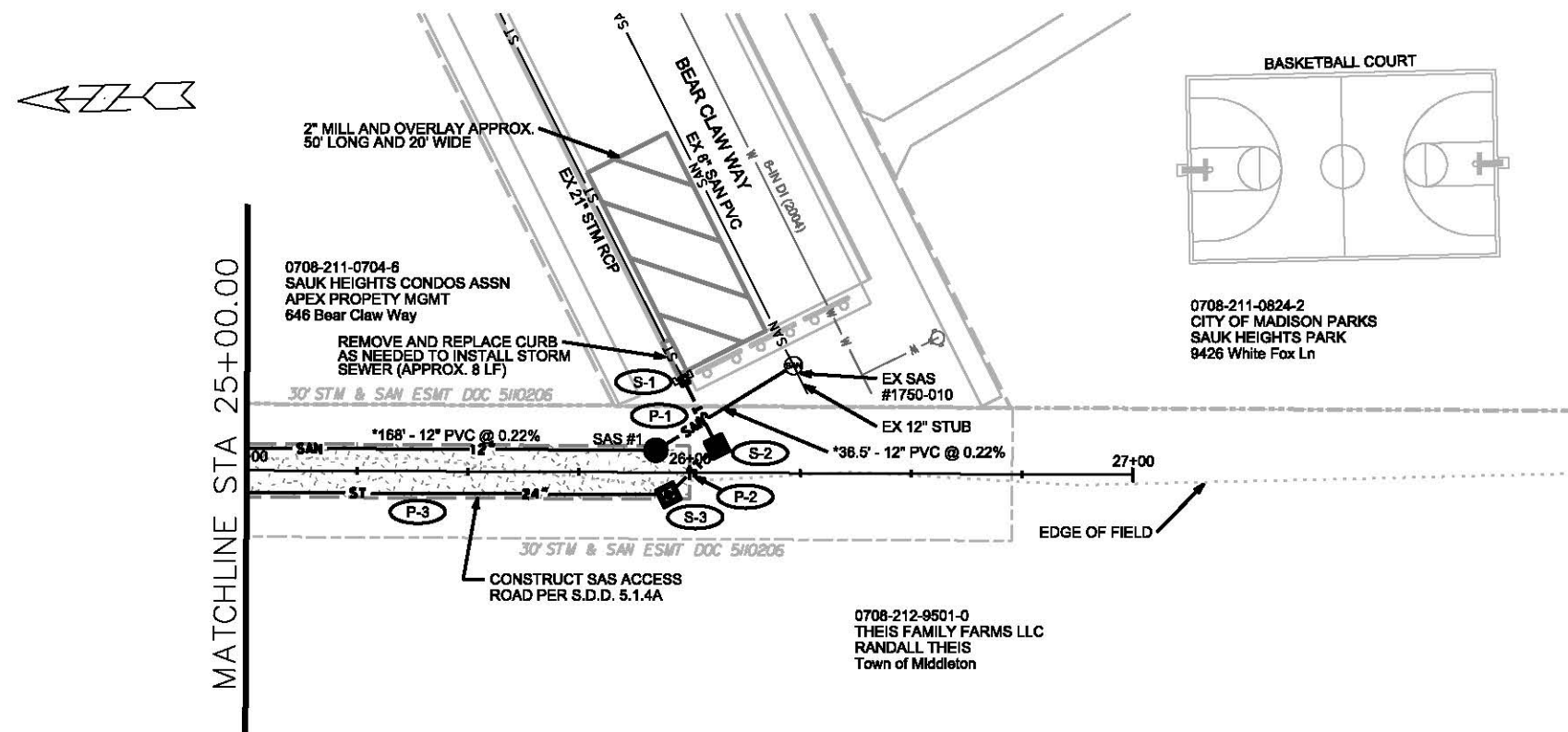
STORM SEWER
DESIGNED BY:

Professional Engineer
GRIGORI
MADISON
WI
3/26/15

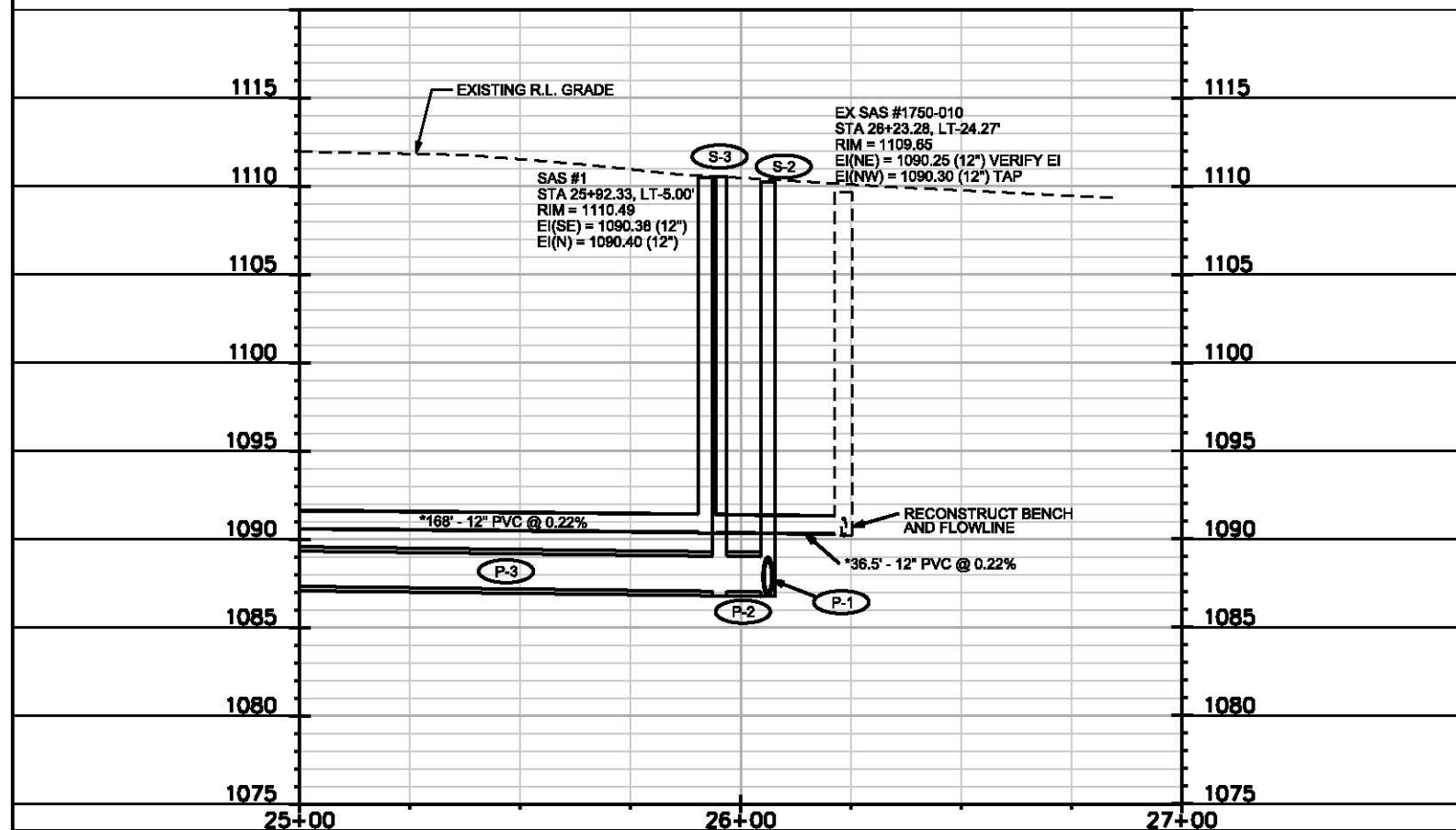








* PIPE SHALL CONFORM TO SPECIFICATIONS
OF ASTM D3034 SDR-26



SANITARY SEWER SCHEDULE

THE WILLOWS - OFFSITE UTILITIES ONLY	SHEET NO.
PROJECT NO. 10513	U-5
SANITARY AND STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
EASEMENT						
SAS #1	25+92.33	LT-5.00	1110.49	1090.38	20.11	(1)
SAS #2	24+24.14	LT-5.00	1112.31	1090.77	21.54	(1)
SAS #3	23+93.24	CL	1112.52	1090.86	21.66	(1)
SAS #4	20+73.24	CL	1107.89	1091.59	16.30	(1)
SAS #5	17+53.24	CL	1104.41	1092.31	12.10	(1)
SAS #6	14+33.24	CL	1100.81	1093.03	7.78	(1)
SAS #7	11+08.24	CL	1098.15	1093.75	4.40	(1)

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
EASEMENT								
EX SAS #1750-010	SAS #1	1090.30	1090.38	36.5	0.22%	12"	SDR-26	-
SAS #1	SAS #2	1090.40	1090.77	168	0.22%	12"	SDR-26	-
SAS #2	SAS #3	1090.80	1090.86	25	0.24%	12"	SDR-26	-
SAS #3	SAS #4	1090.89	1091.59	320	0.22%	12"	SDR-26	-
SAS #4	SAS #5	1091.61	1092.31	320	0.22%	12"	SDR-26	-
SAS #5	SAS #6	1092.33	1093.03	320	0.22%	12"	SDR-35	-
SAS #6	SAS #7	1093.05	1093.75	325	0.22%	12"	SDR-35	-

STORM SEWER SCHEDULE

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
EASEMENT							
S-1	25+98.60	LT-20.73	COLLAR	-	1086.92	-	-
S-2	26+06.11	LT-5.91	3X3 SAS	1110.25	1087.00	23.25	W/R-3067-7004-V
S-3	25+95.19	RT-5.00	3X3 SAS	1110.53	1087.04	23.49	W/R-1916C-0054
S-4	24+36.65	RT-5.00	3X3 SAS	1112.13	1087.51	24.62	W/R-1050-0054
S-5	23+86.36	RT-15.50	3X3 SAS	1112.13	1087.56	24.57	W/R-1050-0054
S-6	20+65.36	RT-15.50	3X3 SAS	1107.14	1088.51	18.63	W/R-1050-0054
S-7	17+44.44	RT-15.50	3X3 SAS	1104.05	1089.46	14.59	W/R-1050-0054
S-8	14+23.29	RT-15.50	3X3 SAS	1100.73	1090.41	10.32	W/R-1050-0054
S-9	11+02.29	RT-15.50	3X3 SAS	1098.25	1091.36	6.89	W/R-1050-0054

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
EASEMENT										
P-1	S-1	S-2	1086.92	1087.00	16.5	15.1	0.53%	21"	RCP	-
P-2	S-2	S-3	1087.00	1087.04	15.5	12.2	0.33%	24"	RCP	NCM
P-3	S-3	S-4	1087.04	1087.51	158.5	155.4	0.30%	24"	RCP	-
P-4	S-4	S-5	1087.51	1087.56	20	15.8	0.32%	24"	RCP	-
P-5	S-5	S-6	1087.56	1088.51	321	318	0.30%	24"	RCP	-
P-6	S-6	S-7	1088.51	1089.46	321	318	0.30%	24"	RCP	-
P-7	S-7	S-8	1089.46	1090.41	321	318	0.30%	24"	RCP	-
P-8	S-8	S-9	1090.41	1091.36	321	318	0.30%	24"	RCP	-

NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

SPECIFIC NOTES

(1) INSTALL SAS CASTING R-1916C-0054, LOCKING LID WITH LOGO COVER HEX BOLTED TO SAS CHIMNEY (NO ADJUSTMENT RINGS)

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 KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KRANK@CITYOFMADISON.COM.