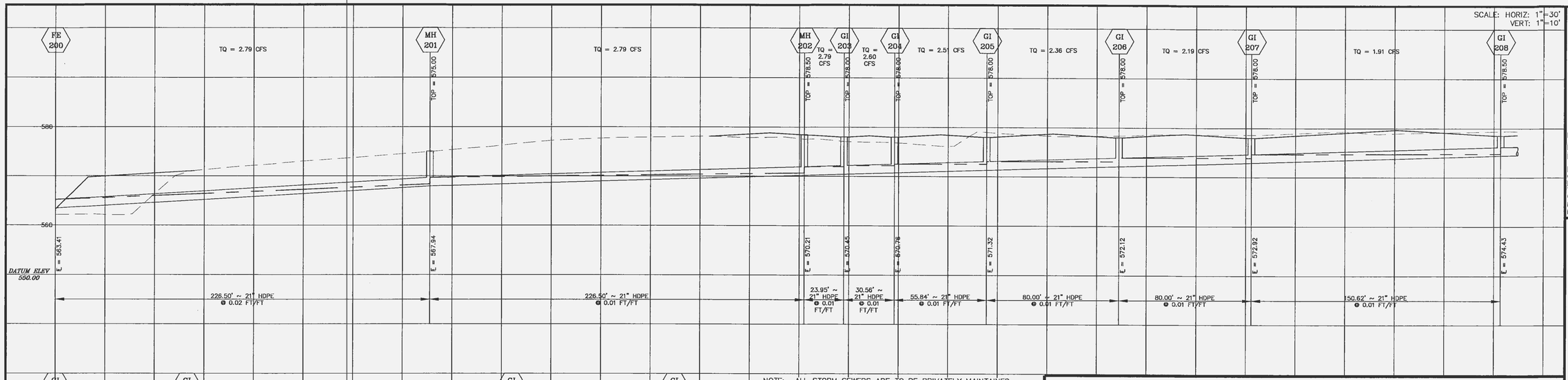
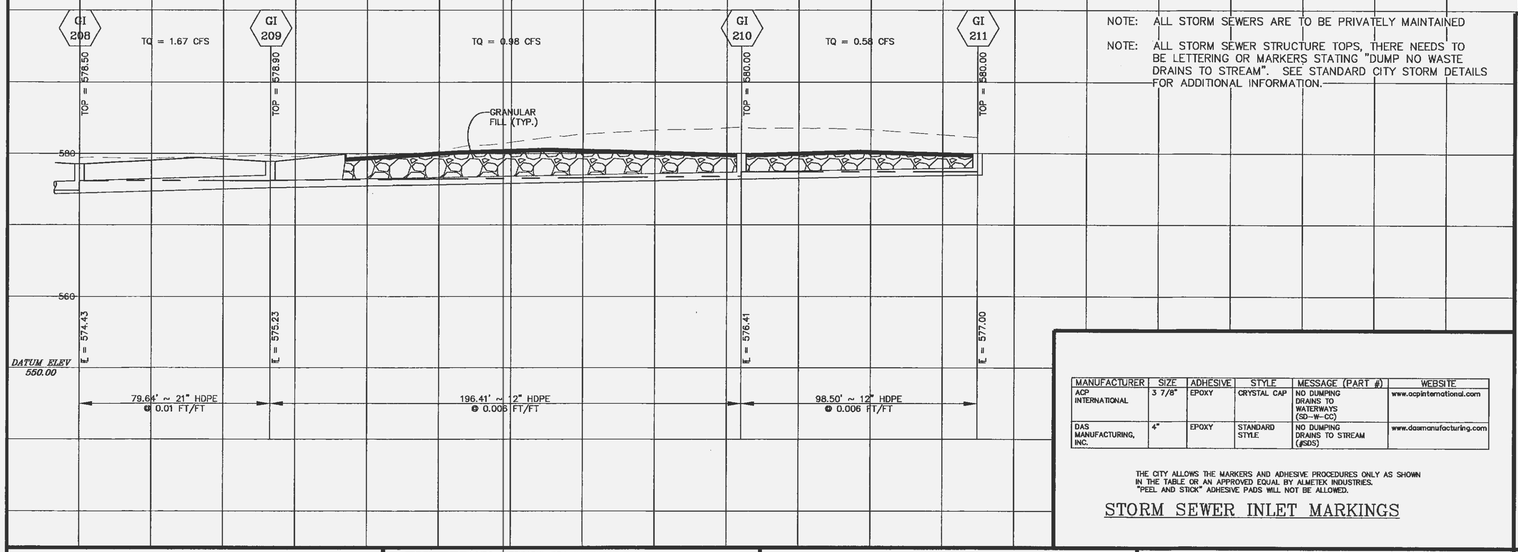




NOTE: ALL STORM SEWERS ARE TO BE PRIVATELY MAINTAINED

NOTE: ALL STORM SEWER STRUCTURE TOPS, THERE NEEDS TO BE LETTERING OR MARKERS STATING "DUMP NO WASTE DRAINS TO STREAM". SEE STANDARD CITY STORM DETAILS FOR ADDITIONAL INFORMATION.

St Charles County Government
Hydraulic Review Output Data

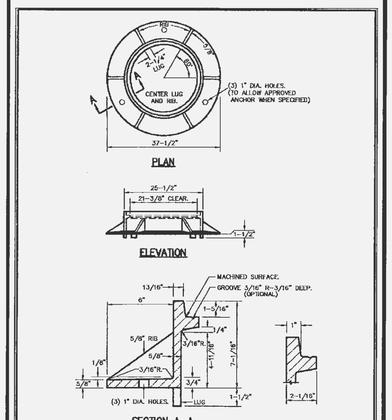
C:\Land Projects 3\11-1236-SAK-HOIT-ROACH\1236HQ Hydraulics.lsf
MMD2015
Calculations Under Full Flow

	Upp Str	Low Str	PL	S	Upp FL LN	Low FL LN	FS	Upp ST EL	Depth HY GR	Upp HY LL	Low HY EL	Hydr Grade	FR Head	VEL	VEL Head	Junc Loss	Turn Loss	Curve Loss	STR Grade	Inl Cap	DR Area	PL	Q	TQ	Pipe Cap	Remarks
1	GI 211	GI 210	99	12	577.00	576.41	0.59	580.00	2.56	577.44	577.41	0.00920	0.02	0.74	0.01	0.01	0.00	0.00	0	4.00	0.16	3.63	0.98	0.98	2.99	
2	GI 210	GI 209	136	12	576.41	576.23	0.60	580.00	3.26	576.80*	576.23	0.00963	0.12	1.25	0.02	0.00	0.00	0.00	0	4.00	0.38	3.26	0.98	0.98	2.99	
3	GI 209	GI 208	80	21	575.23	574.43	1.00	578.90	2.70	576.20	576.19	0.00010	0.01	0.58	0.01	0.00	0.01	0.00	0	4.00	0.23	3.39	0.94	1.91	17.17	
4	GI 208	GI 207	151	21	574.43	572.92	1.00	578.50	3.69	574.81*	574.57	0.00010	0.02	0.79	0.01	0.00	0.00	0.00	0	4.00	0.15	1.87	0.28	2.19	17.17	
5	GI 207	GI 205	80	21	572.92	572.12	1.00	578.00	4.11	573.98	573.87	0.00020	0.02	0.91	0.01	0.00	0.00	0.00	0	4.00	0.09	1.87	0.17	2.36	17.17	
6	GI 205	GI 204	80	21	572.12	571.32	1.00	578.00	4.91	573.09	573.07	0.00020	0.02	0.96	0.01	0.00	0.00	0.00	0	4.00	0.09	1.87	0.17	2.36	17.17	
7	GI 204	GI 203	36	21	571.32	570.78	1.00	578.00	5.48	572.52	572.51	0.00020	0.01	1.04	0.02	0.00	0.00	0.00	0	4.00	0.05	1.87	0.09	2.02	15.92	
8	GI 203	GI 202	31	21	570.78	570.45	1.01	578.00	5.79	572.21	572.20	0.00035	0.01	1.06	0.02	0.00	0.00	0.00	0	4.00	0.10	1.87	0.18	2.79	17.17	
9	GI 202	MH 202	24	21	570.45	570.21	1.00	578.00	6.02	571.98	571.96	0.00030	0.01	1.10	0.02	0.00	0.01	0.00	0	4.00	0.10	1.87	0.18	2.79	17.17	
10	MH 202	MH 201	227	21	570.21	567.94	1.00	576.50	7.83	570.67*	569.69	0.00030	0.02	1.19	0.02	0.00	0.01	0.00	0	0.00	0.00	0.00	0.00	2.79	17.17	
11	MH 201	FE 200	227	21	567.94	563.41	2.00	575.00	6.04	568.96*	565.16	0.00030	0.07	1.19	0.02	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	2.79	24.28	INSIDE TOP OF PIPE 565.16

MANUFACTURER	SIZE	ADHESIVE	STYLE	MESSAGE (PART #)	WEBSITE
ACP INTERNATIONAL	3 7/8"	EPOXY	CRYSTAL CAP	NO DUMPING DRAINS TO WATERWAYS (SD-W-CC)	www.acpinternational.com
DAS MANUFACTURING, INC.	4"	EPOXY	STANDARD STYLE	NO DUMPING DRAINS TO STREAM (#SDS)	www.dasmanufacturing.com

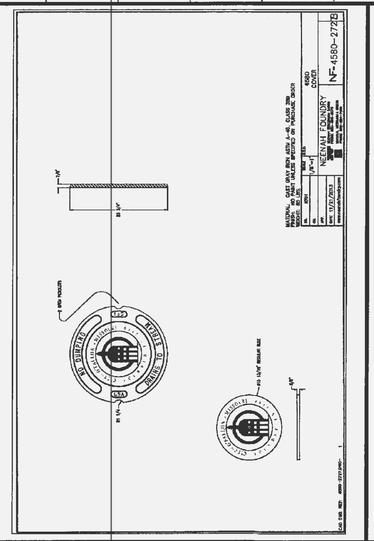
THE CITY ALLOWS THE MARKERS AND ADHESIVE PROCEDURES ONLY AS SHOWN IN THE TABLE OR AN APPROVED EQUAL BY ALMETEK INDUSTRIES. "PEEL AND STICK" ADHESIVE PADS WILL NOT BE ALLOWED.

STORM SEWER INLET MARKINGS



CAST IRON MANHOLE FRAME

METROPOLITAN ST. LOUIS SEWER DISTRICT
Standard Details of Sewer Construction
Dr. DAB/SAM | Ch. J.C.K. | 2009 | SHEET 52


NEENAH FOUNDRY
NEENAH, WISCONSIN
R-4580
NF-4580-2726
ASSY. NO. 1570/2003
MATERIAL: CAST IRON ASTM A-48 CLASS 30B
DESIGN: AS PER AASHTO M306 LOAD RATING
H-20
4580 COVER
14"
23 1/4"
22 3/4"
4 PER COVER
4 PER RING
4 PER RING
4 PER RING