STORM DRAIN LINE 'C'

LINE.	STA.	DESC.	INCREMENTAL AREA (ACRES)	RUNOFF COEFFICIENT	INTENSITY (IN/HR)	DIST (FT)	TOTAL FLOW Q_{DD} (CFS)	DIA. (IN)	RISE (FT)	ROUGH-NESS n	PIPE SLOPE So (%)	PIPE CAPACITY Q_{cap} (CFS)	V_{design} Qdesign/A	Vpartial (FPS)	FRICTION SLOPE Sf (FT/FT)	Hv Vdesign^2/2g	K_i	H_i (FT.)	INCOMING PIPE HGL (FT)	OUTGOING PIPE HGL (FT)	INCOMING PIPE INVERT (FT)	OUTGOING PIPE INVERT (FT)
LINE C	1+00.00	CONNECT TO LINE A																	560.44		554.98	
						41.84	11.73	18	1.5	0.013	4.64%	22.62	6.64	12.91	1.24%	0.68						
	1+41.84	C1	0.56	0.90	9.80												0.60	0.55	561.51	560.96	556.92	556.92
						72.07	6.79	18	1.5	0.013	4.64%	22.62	3.84	11.10	0.42%	0.23						
	2+13.91	C2	0.33	0.90	9.80												0.60	0.18	561.99	561.81	560.26	560.26
						79.31	3.88	18	1.5	0.013	4.64%	22.62	2.20	9.56	0.14%	0.07						
	2+93.22	CONNECT TO EX. 12"	0.44	0.90	9.80												1.25	0.09	562.10	562.10		563.94
LAT C1	1+00.00																		561.51		556.92	
						97.11	4.94	18	1.5	0.013	6.35%	26.48	2.80	11.41	0.22%	0.12						
	1+97.11	INLET	0.56	0.90	9.80												1.25	0.15	561.72	561.72		563.09
LAT C2	1+00.00																		561.99		560.26	
						34.45	2.91	18	1.5	0.013	9.31%	32.05	1.65	11.16	0.08%	0.04						
	1+34.45	INLET	0.33	0.90	9.80												1.25	0.05	562.02	562.02		563.47

STORM DRAIN LINE 'D'

LINE.	STA.	DESC.	INCREMENTAL AREA (ACRES)	RUNOFF COEFFICIENT	INTENSITY (IN/HR)	DIST (FT)	TOTAL FLOW Q_{DD} (CFS)	DIA. (IN)	ROUGH-NESS n	PIPE SLOPE So (%)	PIPE CAPACITY Q_{cap} (CFS)	V_{design} Qdesign/A	Vpartial (FPS)	FRICTION SLOPE Sf (FT/FT)	Hv Vdesign^2/2g	K_i	H_i (FT.)	INCOMING PIPE HGL (FT)	OUTGOING PIPE HGL (FT)	INCOMING PIPE INVERT (FT)	OUTGOING PIPE INVERT (FT)
LINE D	1+00.00	EXISTING 42:																554.88		549.20	
						9.81	40.62	42	0.013	0.48%	69.70	4.22	7.48	0.16%	0.28						
	1+09.81	LINE F	* DRAINAGE AREA D-1 IS CONSIDERED TO BE IN DEVELOPED CONDITIONS. D-1 IS CONTRIBUTING TO THE POND STORAGE CALCULATION. SEE SHEET C5.02B													0.60	0.11	555.01	554.90	549.25	549.25
						5.00	40.62	42	0.013	0.48%	69.70	4.22	7.48	0.16%	0.28						
	1+14.81	Pipe size Change														1.00	-2.32	552.70	555.01	549.27	549.27
						17.56	40.62	24	0.013	0.48%	15.67	12.93	4.99	3.21%	2.60						
	1+32.37	30 BEND	0.00	0.00	0.00											0.50	1.30	554.56	553.26	549.36	549.36
						81.73	40.62	24	0.013	0.48%	15.67	12.93	4.99	3.21%	2.60						
	2+14.10	DETENTION POND	-	-	-											0.70	1.82	559.00	557.18	549.75	549.75

STORM DRAIN LINE 'F'

LINE.	STA.	DESC.	INCREMENTAL AREA (ACRES)	RUNOFF COEFFICIENT	INTENSITY (IN/HR)	DIST (FT)	TOTAL FLOW Q_{DD} (CFS)	DIA. (IN)	ROUGH-NESS n	PIPE SLOPE So (%)	PIPE CAPACITY Q_{cap} (CFS)	V_{design} Qdesign/A	Vpartial (FPS)	FRICTION SLOPE Sf (FT/FT)	Hv Vdesign^2/2g	K_i	H_i (FT.)	INCOMING PIPE HGL (FT)	OUTGOING PIPE HGL (FT)	INCOMING PIPE INVERT (FT)	OUTGOING PIPE INVERT (FT)
LINE F	1+00.00																	555.01		549.25	
						25.26	23.12	24	0.013	2.98%	39.05	7.36	12.92	1.04%	0.84						
	1+25.26	DROP INLET	7.96	0.35	8.30											1.25	1.05	556.32	555.27		550.00

$DATE$ $TIME$ $USER$\CLIENT$\$FILE1$ $PLTDRV$ $MODELNAME$ $PLTDRVSS$

ROCKWALL COUNTY COURTHOUSE

ROCKWALL COUNTY
ROCKWALL, TEXAS

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Revision No.	Date	Description
1	04/06/2010	SITE PLAN REVISIONS

RECORD DRAWING

APRIL, 2011
These Record Documents have been prepared based upon information provided by Manhattan Construction. The Design Professional has not verified the accuracy and / or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result Design Consultant: Halff Associates, Inc.
RECORD DRAWING SUBMITTAL

Stephen B. Crawford

STATE OF TEXAS
STEPHEN B CRAWFORD
89249
LICENSED
PROFESSIONAL ENGINEER

5-5-10

Project No.:	26244
Issued:	APRIL 2011
Drawn By:	BJG
Checked By:	SBC
Scale:	AS NOTED

Sheet Title

STORM DRAIN CALCULATIONS

C5.10

Sheet Number