



AREA (name)	INLET FROM	INLET TO	Drainage Area	Total Area (acres)	Time Con. (min)	Run off Coefficient	Run off Cumm "c"	Sum of C*A	Overland Flow I in in./hr.	Runoff Q in c.f.s.	Mannings "n"	length (ft.)	Dia. Or PIPE (in.)	Rise ft / 100 ft	Grade %	Design Velocity (ft/s)	Design Capacity (cfs)	Actual Velocity	Fall (ft.)	Up Str Fl. Elev.	Dn Str Fl. Elev.	RIM/TG Elev.	Cover to FL (ft.)	Cover Over Pipe (ft.)	Hydraulic Grade Slope	Hydraulic Grade Up Str. Elevation	Hydraulic Grade Dn Str. Elevation
DA 1	DA 1	MH 1	0.45	0.45	10.00	0.90	0.90	0.41	9.80	3.97	0.013	62	12	2.45	7.11	5.59	8.10	1.52	479.70	478.18	484.70	5.00	3.83	1.23%	479.95	479.18	
DA 2	DA 2	FD 1	0.00	0.00	10.15	0.90	0.90	0.83	9.80	8.11	0.013	49	18	0.90	5.65	9.99	6.44	0.44	477.88	477.24	483.85	6.17	4.46	0.59%	479.03	478.14	
FD 1	FD 1	EX STM	0.25	1.62	10.59	0.90	0.90	1.46	9.80	14.29	0.013	30	18	2.00	8.42	14.89	9.23	0.60	473.00	472.40	476.50	3.50	1.79	1.84%	474.45	473.90	
FD 2	FD 2	EX STM	1.25	2.87	10.65	0.90	0.90	2.58	9.80	25.31	0.013	24	24	1.75	9.55	29.99	10.07	0.42	470.00	469.58	475.00	5.00	2.69	1.25%	471.88	471.58	
DA 2-2	DA 2-2	DA 2-1	0.13	0.13	10.00	0.90	0.90	0.12	9.80	1.15	0.013	43	8	1.75	4.59	1.60	4.26	0.75	481.28	480.53	483.10	1.82	1.05	0.90%	481.58	481.19	
DA 2-1	DA 2-1	DA 2	0.12	0.25	10.25	0.90	0.90	0.23	9.80	2.21	0.013	72	10	1.75	5.32	2.90	5.27	1.26	480.43	479.17	483.10	2.67	1.74	1.01%	480.73	480.00	
DA 2-3	DA 2-3	DA 2	0.05	0.05	10.00	0.90	0.90	0.05	9.80	0.44	0.013	39	8	0.75	3.00	1.05	2.88	0.29	478.90	478.61	481.90	3.00	2.23	0.13%	477.30	477.25	
DA 1-1	DA 1-1	MH 1	0.47	0.47	10.00	0.90	0.90	0.42	9.80	4.15	0.013	55	12	1.75	6.01	4.72	6.00	0.96	480.44	479.48	485.35	4.91	3.74	1.35%	479.92	479.18	

OFF-SITE AREA = 0.17ac. AREA NOT TO BE DEVELOPED AND IS TO DRAIN AS IT DID PRIOR TO DEVELOPMENT.

AS-BUILT DRAWINGS

SHEET

CS

REGISTRATION NO. 1-9553

DATE: AUGUST 2009

DRAWN BY: DG

CHECKED BY: JG

JOHN D. GEROSKI
8897
STATE OF TEXAS
PROFESSIONAL ENGINEER

08-03-09

CHILDRENS LIGHTHOUSE
3009 GOLIAD STREET
ROCKWALL, TEXAS

DRAINAGE PLAN

NO.	DATE	DESCRIPTION

TEXAS LAND ENGINEERS, INC.
1201 SHEPHERD DRIVE
HOUSTON, TX 77007
PH: (281) 576-1085
FAX: (281) 576-1086