

FLOOD PLAIN LIMITS
 PER FEMA FIRM PANEL 48397C0030L
 REVISED PER LOMR 13-06-2096P
 EFFECTIVE JANUARY 17, 2014

BENCHMARK:
 " X " Cut on top of curb on east side of John King Blvd.
 approx. 48' north of the centerline of Pleasant View Dr.
 ELEVATION = 505.61

SCALE: 1" = 50'

LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- ⊕ INLET NUMBER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- ⊕ DRAINAGE AREA NO.
- EX - EXISTING CONDITIONS
- FD - FULLY DEVELOPED CONDITIONS

RUNOFF COMPUTATIONS

#	Area (sf)	Area (acres)	Runoff Coefficient	Tc (min)	I(100) (in/hr)	Q(100) (cfs)	
1	49720	1.14	0.50	10	9.8	5.6	
2	80161	1.84	0.50	10	9.8	9.0	
3	128205	2.94	0.50	10	9.8	14.4	
4	26261	0.60	0.50	10	9.8	3.0	
5	19963	0.46	0.50	10	9.8	2.2	
6X	385067	8.84	0.50	10	9.8	43.3	Phase I
7X	236743	5.43	0.50	10	9.8	26.6	Phase I

Inlet Control vs. Outlet Control

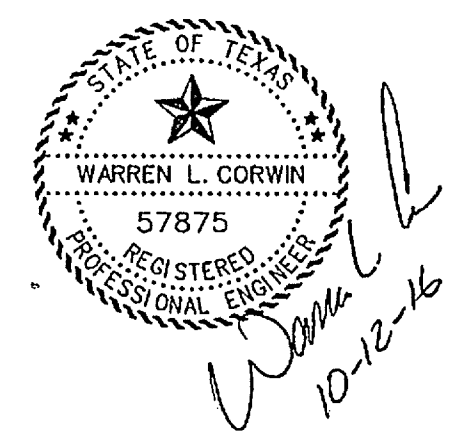
Block	Lot	Elevation		Governing Control	Headwater Elevation (ft)	U/S Elev. vs. Soffit (ft)
		Outlet Control (ft)	Inlet Control (ft)			
A	1	1.51	1.47	Outlet Control	1.51	-0.87
A	2	1.62	3.74	Inlet Control	3.74	-0.46
A	3	1.83	4.26	Inlet Control	4.25	0.05
A	4	2.18	3.58	Inlet Control	3.58	0.87
A	5	2.29	3.85	Inlet Control	3.85	1.15
A	6	2.34	3.97	Inlet Control	3.97	1.27
A	7	1.63	3.51	Inlet Control	3.51	-0.69
A	8	1.52	3.49	Inlet Control	3.49	-0.71
A	9	1.51	3.47	Inlet Control	3.47	-0.73
A	10	1.50	1.44	Outlet Control	1.50	-0.68

DRIVEWAY CULVERT CALCULATIONS
 OUTLET CONTROL

Block	Lot	Receives Drainage From Lots	Drainage Area (sf)	Flow (cfs)	Ditch Slope	Ditch Capacity (cfs)	Pipe Size (in)	No. of Barrels	Area (per barrel) (sf)	Full Flow Velocity (fps)	Velocity Head (ft)	Hydraulic Slope (ft/ft)	Outlet Flowline (ft)	Ditch Depth (ft)	Starting Tailwater (ft)	Length @ Headwater Elevation (ft)	Upstream Soffit Elev. (ft)	Headwater Required (ft)	Inlet Flowline (ft)	Headwater Elevation (ft)	Inlet or Outlet Control?	U/S Elev. vs. Soffit (ft)		
																							Flowline Elevation (ft)	Headwater Elevation (ft)
A	1	1	14357	1.6	1.90%	232	18	1	1.7671	0.9	0.01	0.0002	0.00	0.44	1.50	36	1.51	2.18	0.04	0.68	1.47	Outlet Control	1.51	-0.87
A	2	1-2	40770	4.6	7.50%	102	18	1	1.7671	2.6	0.10	0.0019	0.00	0.50	1.50	36	1.62	4.20	0.29	2.70	3.74	Outlet Control	3.74	-0.46
A	3	1-3	67532	7.6	7.50%	463	18	1	1.7671	4.3	0.29	0.0052	0.00	0.80	1.50	36	1.83	4.20	0.80	2.70	4.25	Inlet Control	4.25	0.05
A	4	1-4	96365	10.8	3.35%	316	18	1	1.7671	6.1	0.58	0.0106	0.00	0.80	1.50	36	2.18	2.71	1.62	1.21	3.58	Inlet Control	3.58	0.87
A	5	1-5	104137	11.7	3.35%	316	18	1	1.7671	6.6	0.68	0.0124	0.00	0.82	1.50	36	2.29	2.71	1.90	1.21	3.85	Inlet Control	3.85	1.15
A	6	1-6	107458	12.1	3.35%	316	18	1	1.7671	6.8	0.73	0.0132	0.00	0.83	1.50	36	2.34	2.71	2.02	1.21	3.97	Inlet Control	3.97	1.27
A	7	7-10	18837	2.1	7.50%	463	18	1	1.7671	1.2	0.02	0.0004	0.00	0.37	1.50	36	1.53	4.20	0.06	2.70	3.51	Outlet Control	3.51	-0.69
A	8	8-10	15656	1.8	7.50%	463	18	1	1.7671	1.0	0.02	0.0003	0.00	0.35	1.50	36	1.52	4.20	0.04	2.70	3.49	Outlet Control	3.49	-0.71
A	9	9-10	9694	1.1	7.50%	463	18	1	1.7671	0.6	0.01	0.0001	0.00	0.29	1.50	36	1.51	4.20	0.02	2.70	3.47	Outlet Control	3.47	-0.73
A	10	10	4611	0.5	1.90%	232	18	1	1.7671	0.3	0.00	0.0000	0.00	0.22	1.50	36	1.50	2.18	0.00	0.68	1.44	Outlet Control	1.50	-0.68

AS-BUILT JUNE 2017
 INFORMATION PROVIDED BY CONTRACTORS
 (NOT FIELD VERIFIED)

RELEASED FOR CONSTRUCTION
 ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN
 REMAINS WITH THE DESIGN ENGINEER. THE CITY
 OF ROCKWALL, IN REVIEWING AND RELEASING
 PLANS FOR CONSTRUCTION, ASSUMES NO
 RESPONSIBILITY FOR ADEQUACY OR ACCURACY
 OF DESIGN.



CORWIN ENGINEERING, INC.
 200 W. BELMONT, SUITE E
 ALLEN, TEXAS 75013 (972)396-1200
 TBPE FIRM #5951

DEVELOPMENT PLANS FOR
**BREZZY HILL
 PHASE VII
 ROCKWALL, TEXAS**

DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE	
16006	JUNE 2016	1"=50'	3 OF 10