



OFFSITE DRAINAGE AREA MAP
SCALE: 1"=200'

RUNOFF COMPUTATIONS									
#	Area (sf)	Area (acres)	Runoff Coefficient	CA (min)	Tc (min)	Q(100) (cfs)	Q(100) (mgd)	Drains to	
1	34547	0.80	0.50	0.40	10	9.80	3.9	Inlet 1	
2	83504	1.92	0.50	0.96	10	9.80	9.4	Inlet 2	
3	33643	0.77	0.50	0.39	10	9.80	3.8	Inlet 3	
4	46019	1.06	0.50	0.53	10	9.80	5.2	Inlet 4	
5A	32313	0.74	0.50	0.37	10	9.80	3.6	Inlet 5	
5B	7370	0.17	0.35	0.06	20	8.30	0.5	Inlet 5	
6	35233	0.82	0.50	0.41	10	9.80	4.0	Inlet 6	
7	40835	0.94	0.50	0.47	10	9.80	4.6	Creek	
8	125057	2.96	0.35	1.04	10	9.80	10.2	Detention Pond	
9	28493	0.65	0.50	0.33	10	9.80	3.2	Detention Pond	
10	190253	4.37	0.35	1.53	20	8.30	12.7	Creek	
OS1	78223	1.82	0.35	0.64	20	8.30	5.3	Creek	
OS2	18637	0.43	0.35	0.15	10	9.80	1.5	Detention Pond	
OS3	26872	0.62	0.35	0.22	10	9.80	2.1	Detention Pond	
OS4	68344	1.57	0.35	0.56	10	9.80	5.4	Detention Pond	
OS5	72490	1.64	0.35	0.58	10	9.80	5.7	Detention Pond	
OS6	138840	3.19	0.30	2.87	10	9.80	28.1	Detention Pond	

LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO.

BENCHMARK *1
PK NAIL FOUND IN CENTER OF S. JOHN KING BLVD.
20' ± NORTH OF MEDIAN OPENING NEAR NORTHWEST
CORNER OF PROPERTY.
ELEV. -564.12
N. 7021747.513
E. 2602779.713

BENCHMARK *2
"X" FOUND ON NORTH END OF TOP OF HEADWALL ON
WEST SIDE OF S. JOHN KING BLVD. AT BUFFALO CREEK.
ELEV. -550.82
N. 7020725.306
E. 2602982.310

AS-BUILT JULY 2015
INFORMATION PROVIDED
BY CONTRACTORS
(NOT FIELD VERIFIED)



The seal appearing on
this document was
authorized by
Brandon Davidson
P.E. 87682, on
October 9, 2014

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

DEVELOPMENT PLANS FOR
ROCKWALL DOWNS
PHASE 1
ROCKWALL, TEXAS

DRAINAGE AREA MAP			
DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE:	3 OF 17
14046	JANUARY 2015	1"=50'	

INLET CALCULATIONS

No.	Inlet Location	Design Storm Freq. (years)	Area Runoff: Q=CIA				Carry-Over from Upstream (cfs)	Total Gutter Flow (cfs)	Gutter Capacity (cfs)	Gutter Slope (ft/100 ft)	Crown Type	Length L (ft)	Selected Inlet			
			Tc (min)	"I" (in/hr)	Coeff. "C"	Area "A" (acres)							Q (cfs)	Inlet Capacity (cfs)	Carry-Over to Downstream Inlet (cfs)	
1	6+04.75 Preakness	100	10	9.8	0.5	0.80	3.9	0.0	3.9	20.5	1.84%	6" pbl	10	STD.	6.5	0.0
2	6+04.75 Preakness	100	10	9.8	0.5	1.92	9.4	0.0	9.4	20.5	1.84%	6" pbl	10	STD.	6.5	2.9
3	0+72.53 Middleground	100	10	9.8	0.5	0.77	3.8	0.0	3.8	26.2	3.00%	6" pbl	10	STD.	5.7	0.0
4	0+72.53 Middleground	100	10	9.8	0.5	1.06	5.2	0.0	5.2	26.2	3.00%	6" pbl	10	STD.	5.6	0.0
5	4+00.00 Preakness	100	10	9.8	0.47	0.91	4.2	0.0	4.2	10.7	Low Pt	6" pbl	10	STD.	21.0	0.0
6	4+00.00 Preakness	100	10	9.8	0.5	0.82	4.0	2.9	6.9	10.7	Low Pt	6" pbl	10	STD.	21.0	0.0

