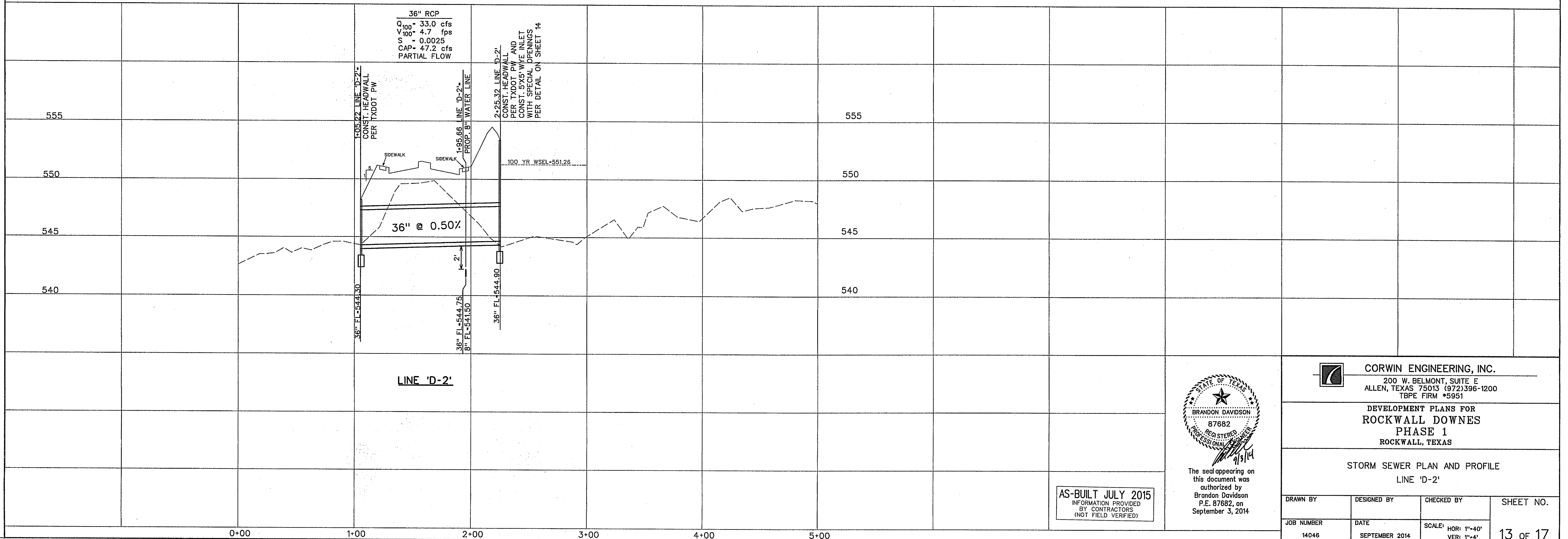


Upstream Station	Downstream Station	Distance (ft)	AREA NO.	Total Area (Acres)	Area Picked Up (Acres)	C	CA	Accumulated CA	Tc (Min)	Design Storm (Years)	I (in/hr)	Q (CFS)	S (ft/ft)	Pipe Size (in)	Velocity (fps)	Head Loss (ft)	Flow Time (Min)	Time at D/S (Min)	ΔVelocity Head (ft)	Hydraulic Grade Upstream	Hydraulic Grade Downstream	Proposed Grade
Line D1																						
3+07.05	3+06.67	80.38	1,2	2.71	2.10	0.50	1.05	1.05	10.00	100	9.89	10.3	0.0021	24	3.3	0.17	0.41	10.41	0.17	548.27	548.27	551.76
3+06.67	1+75.92	130.75	9	1.03	1.03	0.50	0.91	1.96	10.00	100	9.89	19.3	0.0022	30	3.9	0.24	0.56	10.56	0.07	548.10	548.03	550.75
1+75.92	1+56.03	19.89	6	0.82	1.41	0.50	0.71	2.67	10.00	100	9.89	26.3	0.0041	30	5.3	0.44	0.56	10.56	0.20	547.74	547.54	550.12
1+56.03	0+46.48	109.55	5A,5B	0.91	0.91	0.47	0.43	3.10	10.00	100	9.89	30.4	0.0055	30	6.2	0.60	0.29	10.29	0.16	547.46	547.30	550.12
0+46.48																						
Line D2																						
2+25.32	1+05.22	120.10	Pond	26.05	26.05	0.50	13.03	13.03	10.00	100	9.89	33.0	0.0025	36	4.7	0.34	0.43	10.43	0.34	547.30	547.59	
1+05.22																						
Line D3																						
0+59.61	0+51.65	17.96	3	0.77	0.77	0.50	0.39	0.39	10.00	100	9.89	3.0	0.0013	18	2.2	0.08	0.14	10.14	0.08	548.60	548.60	552.22
0+51.65	0+00.00	51.65	4	1.06	1.06	0.50	0.53	0.92	10.00	100	9.89	9.0	0.0074	18	3.9	0.40	0.17	10.17	0.22	548.65	548.33	551.70
0+00.00																						

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

- LEGEND**
- (B) - BLOCK LABEL
 - (IN) - INLET NUMBER
 - (C) - CURVE NUMBER
 - (S) - SANITARY SEWER
 - (W) - WATER
 - (SS) - PROPOSED STORM SEWER



36" RCP
 Q₁₀₀ = 33.0 cfs
 V₁₀₀ = 4.7 fps
 S = 0.0025
 CAP = 47.2 cfs
 PARTIAL FLOW

1+05.22 LINE 'D-2'
 CONST. HEADWALL
 PER TXDOT PW

1-95.66 LINE 'D-2'
 PROP. 8" WATER LINE

2+25.32 LINE 'D-2'
 CONST. HEADWALL
 PER TXDOT PW AND
 CONST. 5X5' WVE INLET
 WITH SPECIAL OPENINGS
 PER DETAIL ON SHEET 14

36" FL=544.30

36" FL=544.75
 8" FL=541.50

36" FL=544.90

LINE 'D-2'

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
 September 3, 2014

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

DEVELOPMENT PLANS FOR
ROCKWALL DOWNES
 PHASE 1
 ROCKWALL, TEXAS

STORM SEWER PLAN AND PROFILE
 LINE 'D-2'

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE: HOR: 1"=40' VER: 1"=4'	13 OF 17
14046	SEPTEMBER 2014		