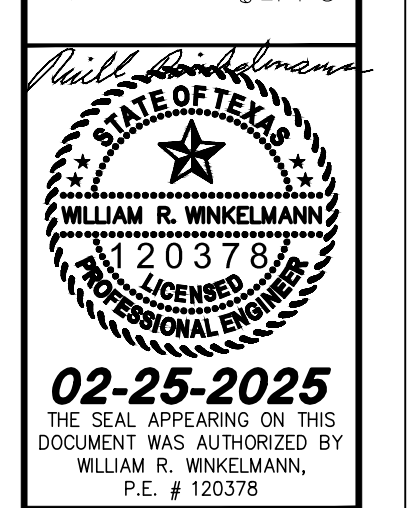


I.D. NO.	AREA (AC.)	Tc (MIN)	EXISTING DRAINAGE FLOW CALCULATIONS																				COMMENTS
			5-YEAR				10-YEAR				25-YEAR				50-YEAR				100-YEAR				
			C	Ca	I (IN/HR)	Q (CFS)	C	Ca	I (IN/HR)	Q (CFS)	C	Ca	I (IN/HR)	Q (CFS)	C	Ca	I (IN/HR)	Q (CFS)	C	Ca	I (IN/HR)	Q (CFS)	
OUTFALL C																							
C-1	4.940	20.0	0.35	1.00	4.90	8.47	0.35	1.00	5.90	10.20	0.35	1.00	6.60	11.41	0.35	1.00	7.50	12.97	0.35	1.00	8.30	14.35	EX. POND TO OUTFALL C
C-2	0.614	10.0	0.90	1.00	6.10	3.37	0.90	1.00	7.10	3.92	0.90	1.00	8.30	4.59	0.90	1.00	9.00	4.97	0.90	1.00	9.80	5.42	EX. DITCH TO OUTFALL C
C-3	0.587	10.0	0.90	1.00	6.10	3.22	0.90	1.00	7.10	3.75	0.90	1.00	8.30	4.38	0.90	1.00	9.00	4.75	0.90	1.00	9.80	5.18	EX. INLET TO OUTFALL C
C-4	6.545	20.0	0.35	1.00	4.90	11.22	0.35	1.00	5.90	13.52	0.35	1.00	6.60	15.12	0.35	1.00	7.50	17.18	0.35	1.00	8.30	19.01	EX. HEADWALL TO OUTFALL C
C-5	10.746	20.0	0.35	1.00	4.90	18.43	0.35	1.00	5.90	22.19	0.35	1.00	6.60	24.82	0.35	1.00	7.50	28.21	0.35	1.00	8.30	31.22	EX. HEADWALL TO OUTFALL C
C-6	0.200	10.0	0.90	1.00	6.10	1.10	0.90	1.00	7.10	1.28	0.90	1.00	8.30	1.49	0.90	1.00	9.00	1.62	0.90	1.00	9.80	1.76	TO OUTFALL C
C-7	0.100	10.0	0.90	1.00	6.10	0.55	0.90	1.00	7.10	0.64	0.90	1.00	8.30	0.75	0.90	1.00	9.00	0.81	0.90	1.00	9.80	0.88	TO OUTFALL C
Total	23.732					46.367	CFS			55.498	CFS			62.566	CFS			70.514	CFS			77.820	CFS
OUTFALL D																							
D-1	2.762	20.0	0.35	1.00	4.90	4.74	0.35	1.00	5.90	5.70	0.35	1.00	6.60	6.38	0.35	1.00	7.50	7.25	0.35	1.00	8.30	8.02	OUTFALL D
Total	2.762					4.737	CFS			5.704	CFS			6.380	CFS			7.250	CFS			8.024	CFS
OUTFALL F																							
F-1	28.693	20.0	0.35	1.00	4.90	49.21	0.35	1.00	5.90	59.25	0.35	1.00	6.60	66.28	0.35	1.00	7.50	75.32	0.35	1.00	8.30	83.35	EX. HEADWALL
F-2	0.330	10.0	0.90	1.00	6.10	1.81	0.90	1.00	7.10	2.11	0.90	1.00	8.30	2.47	0.90	1.00	9.00	2.67	0.90	1.00	9.80	2.91	EX. INLET
F-3	0.230	10.0	0.90	1.00	6.10	1.26	0.90	1.00	7.10	1.47	0.90	1.00	8.30	1.72	0.90	1.00	9.00	1.86	0.90	1.00	9.80	2.03	EX. INLET
F-4	4.583	20.0	0.35	1.00	4.90	7.86	0.35	1.00	5.90	9.46	0.35	1.00	6.60	10.59	0.35	1.00	7.50	12.03	0.35	1.00	8.30	13.31	EX. HEADWALL
Total	33.836					60.143	CFS			72.293	CFS			81.051	CFS			91.886	CFS			101.606	CFS
OUTFALL E																							
E-1	13.902	20.0	0.35	1.00	4.90	23.84	0.35	1.00	5.90	28.71	0.35	1.00	6.60	32.11	0.35	1.00	7.50	36.49	0.35	1.00	8.30	40.39	TO EX. DITCH TO OUTFALL E
Total	13.902					23.842	CFS			28.708	CFS			32.114	CFS			36.493	CFS			40.385	CFS

No.	DATE	REVISION	APPROV.
5.			
4.			
3.			
2.			
1.			

Winkelmann & Associates, Inc.
CONSULTING CIVIL ENGINEERS & SURVEYORS
6750 HILGREET PLAZA DR., SUITE 215
DALLAS, TEXAS 75248
(972) 490-7090
FAX (972) 490-7098
Professional Registration No. 89
Texas Surveyors Registration No. 107866-00
Contract # 1224, Williamson & Associates, Inc.



EXISTING DRAINAGE FLOW CALCULATIONS
I-30 FRONTAGE RD & FM 3549
ROCKWALL, TX

C-06.03