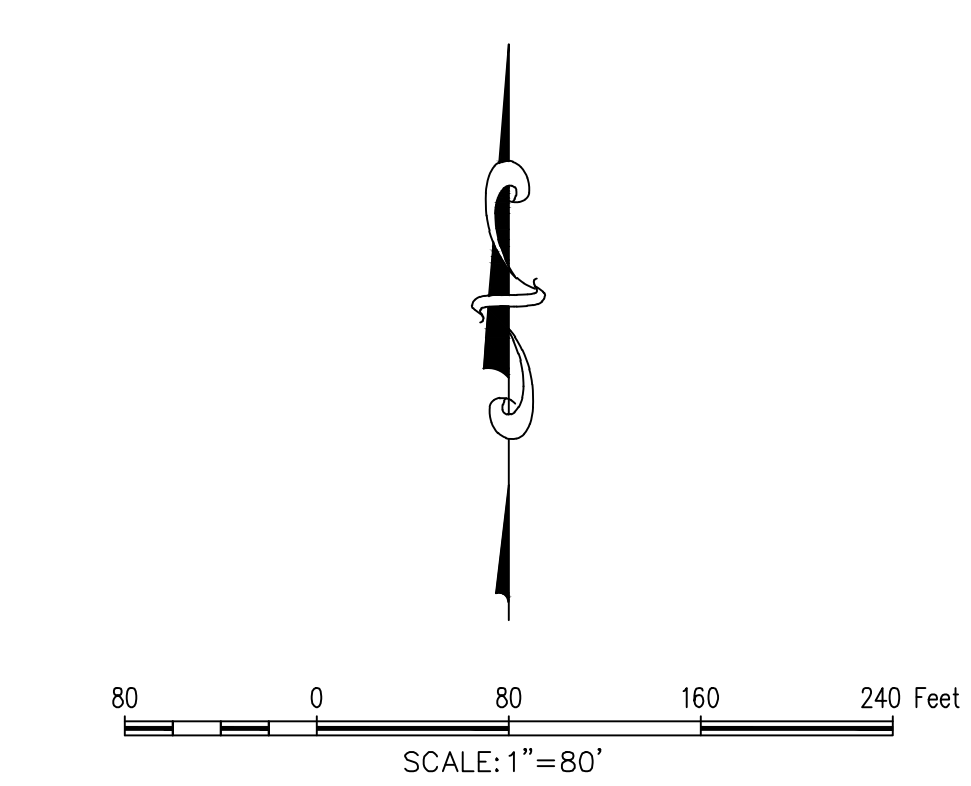


Tc = 10, 20 mins

ROCKWALL APARTMENTS - ULTIMATE BUILDOUT														Comments	
Area	Acreage (ac.)	C (#)	C*A (S)	Tc (min)	I ₅ (in/hr)	I ₁₀ (in/hr)	I ₂₅ (in/hr)	I ₅₀ (in/hr)	I ₁₀₀ (in/hr)	Q ₅ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₅₀ (cfs)		Q ₁₀₀ (cfs)
A1	0.17	0.75	0.13	10	6.1	7.1	8.3	9.0	9.8	0.8	1.0	1.1	1.2	1.3	On-Site Flow to Underground Detention, Buffalo Creek
A2	0.18	0.75	0.14	10	6.1	7.1	8.3	9.0	9.8	0.9	1.0	1.2	1.3	1.4	On-Site Flow to Underground Detention, Buffalo Creek
A3	0.82	0.75	0.62	10	6.1	7.1	8.3	9.0	9.8	3.8	4.4	5.2	5.6	6.1	On-Site Flow to Underground Detention, Buffalo Creek
A4	0.90	0.75	0.68	10	6.1	7.1	8.3	9.0	9.8	4.2	4.8	5.7	6.1	6.7	On-Site Flow to Underground Detention, Buffalo Creek
A5	0.47	0.75	0.35	10	6.1	7.1	8.3	9.0	9.8	2.2	2.6	3.0	3.2	3.5	On-Site Flow to Underground Detention, Buffalo Creek
A6	0.61	0.75	0.46	10	6.1	7.1	8.3	9.0	9.8	2.8	3.3	3.8	4.2	4.5	On-Site Flow to Underground Detention, Buffalo Creek
A7	0.46	0.75	0.35	10	6.1	7.1	8.3	9.0	9.8	2.2	2.5	2.9	3.2	3.4	On-Site Flow to Underground Detention, Buffalo Creek
A8	0.12	0.75	0.09	10	6.1	7.1	8.3	9.0	9.8	0.6	0.7	0.8	0.9	0.9	On-Site Flow to Underground Detention, Buffalo Creek
A9	0.74	0.75	0.56	10	6.1	7.1	8.3	9.0	9.8	3.4	4.0	4.7	5.0	5.5	On-Site Flow to Underground Detention, Buffalo Creek
A10	0.87	0.75	0.65	10	6.1	7.1	8.3	9.0	9.8	4.0	4.7	5.5	5.9	6.4	On-Site Flow to Underground Detention, Buffalo Creek
A11	1.42	0.75	1.07	10	6.1	7.1	8.3	9.0	9.8	6.5	7.6	8.9	9.6	10.5	On-Site Flow to Underground Detention, Buffalo Creek
A12	1.29	0.75	0.97	10	6.1	7.1	8.3	9.0	9.8	6.0	6.9	8.1	8.8	9.5	On-Site Flow to Buffalo Creek (Bypass Detention)
B1	0.41	0.75	0.31	10	6.1	7.1	8.3	9.0	9.8	1.9	2.2	2.6	2.8	3.1	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B2	0.44	0.75	0.33	10	6.1	7.1	8.3	9.0	9.8	2.1	2.4	2.8	3.0	3.3	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B3	0.30	0.75	0.23	10	6.1	7.1	8.3	9.0	9.8	1.4	1.6	1.9	2.1	2.3	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B4	0.46	0.75	0.35	10	6.1	7.1	8.3	9.0	9.8	2.2	2.5	2.9	3.2	3.4	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B5	0.27	0.75	0.20	10	6.1	7.1	8.3	9.0	9.8	1.3	1.5	1.7	1.9	2.0	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B6	0.43	0.75	0.32	10	6.1	7.1	8.3	9.0	9.8	2.0	2.3	2.7	3.0	3.2	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B7	1.37	0.75	1.03	10	6.1	7.1	8.3	9.0	9.8	6.3	7.3	8.6	9.3	10.1	On-Site Flow to Detention Pond, Buffalo Creek Tributary
B8	0.02	0.75	0.02	10	6.1	7.1	8.3	9.0	9.8	0.1	0.2	0.2	0.2	0.2	On-Site Flow to Discovery Boulevard System, Detention Pond, Buffalo Creek Tributary
B9	2.93	0.75	2.20	10	6.1	7.1	8.3	9.0	9.8	13.5	15.7	18.3	19.8	21.6	Detention Pond to Buffalo Creek Tributary
B10	1.71	0.75	1.28	10	6.1	7.1	8.3	9.0	9.8	7.9	9.2	10.7	11.6	12.6	On-Site Sheet Flow to Buffalo Creek Tributary (Bypass Detention)
FP1	4.88	0.35	1.71	20	4.9	5.9	6.6	7.5	8.3	8.4	10.1	11.3	12.9	14.2	Floodplain / Open Space / Undevelopable
OS U1	8.48	0.75	6.36	20	4.9	5.9	6.6	7.5	8.3	31.2	37.6	42.0	47.7	52.8	Off-Site Sheet Flow to Buffalo Creek (Detention necessary for future Phase 2 Construction)
OS U2	3.14	0.75	2.36	10	6.1	7.1	8.3	9.0	9.8	14.4	16.8	19.6	21.2	23.1	Anticipated Future Flow in Phase 1 Storm Sewers
OS U3	2.89	0.75	2.17	10	6.1	7.1	8.3	9.0	9.8	13.3	15.4	18.0	19.6	21.3	Anticipated Future Flow in Phase 1 Storm Sewers
OS FP	6.77	0.35	2.37	20	4.9	5.9	6.6	7.5	8.3	11.7	14.0	15.7	17.8	19.7	Open Space, Flood Plain, Undevelopable
OS Q	0.70	0.35	0.25	20	4.9	5.9	6.6	7.5	8.3	1.3	1.5	1.7	1.9	2.1	Off-Site Sheet Flow from Discovery Industrial Park to Buffalo Creek Tributary
OSX	REFER TO H&H STUDY FOR CALCULATIONS														Greater Watershed Drainage Areas Verified by H&H Study
Totals	43.25									156.40	183.80	211.60	233.00	254.70	

- [(R³)(hr)]/[(ac-in)(sec)]
 \$ - [(R³)(hr)]/[(in)(sec)]



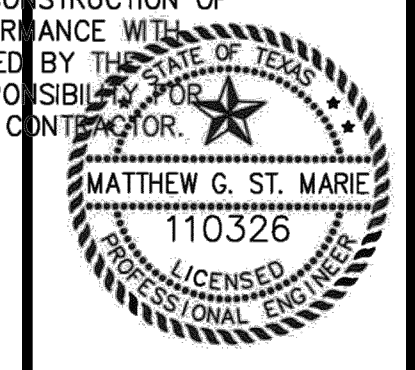
BM: "X" CUT ON CURB INLET ALONG NORTHSIDE OF DISCOVERY BLVD. APPROXIMATELY 570 FEET FROM EAST PROPERTY LINE. ELEV = 564.92
 BM: CITY OF ROCKWALL CONTROL MONUMENT "N1495", CALLED ELEV = 566.71. MEASURED ELEV. = 566.83

- GENERAL NOTES
1. THE DRAINAGE AREA MAPS PROVIDED IN THESE PLANS ARE FOR: COMPARING THE LOCAL PEAK FLOWS FROM EXISTING CONDITIONS THROUGH THE PROPOSED FIRST PHASE TO THE ULTIMATE BUILDOUT, AND TO SIZE THE ON-SITE STORM SEWER SYSTEM.
 2. DRAINAGE AREAS FOR THE GREATER WATERSHED ARE PROVIDED IN REPORT TITLED "HYDROLOGIC AND HYDRAULIC STUDY IN SUPPORT OF SWBC PHASE I DEVELOPMENT" PREPARED BY DHR ENGINEERING, INC.
 3. OFFSITE DRAINAGE AREA "OS-X" IS PROVIDED AS A PLACEHOLDER TO ACKNOWLEDGE DRAINAGE FROM ADDITIONAL SOURCES SOUTH OF PROJECT. OFFSITE DRAINAGE FROM DISCOVERY BOULEVARD AND POINTS SOUTH HAS NO IMPACT ON THE ON-SITE PEAK FLOW. FOR EVALUATION OF OFF-SITE DRAINAGE AREAS, REFER TO REPORT TITLED "HYDROLOGIC AND HYDRAULIC STUDY IN SUPPORT OF SWBC PHASE I DEVELOPMENT" PREPARED BY DHR ENGINEERING, INC.
 4. REFER TO REFERENCED REPORT FOR ADDITIONAL INFORMATION REGARDING OFFSITE CONSTANTS/COEFFICIENTS/CALCULATIONS

AS-BUILT RECORD DRAWING

THE INFORMATION ON THESE PLANS HAS BEEN REVISED TO REFLECT CHANGES TO PUBLIC IMPROVEMENTS MADE DURING CONSTRUCTION. UNLESS OTHERWISE NOTED, THE CONSTRUCTION OF THE PUBLIC IMPROVEMENTS IS IN GENERAL CONFORMANCE WITH THESE PLANS, BASED UPON INFORMATION PROVIDED BY THE CONTRACTOR AND FIELD VERIFICATIONS. THE RESPONSIBILITY FOR ACCURACY AND COMPLETENESS BELONGS TO THE CONTRACTOR.

Matthew G. St. Marie
 THE JOHN R. MCADAMS COMPANY, INC.
 Date: 03/04/2021



Drawn By: MD
Date: 12/19/2017
Scale: 1"=80'
Revisions:
03/23/2018 AS-BUILTS
05/16/2018 03/04/2021
07/16/2018
08/13/2018
10/12/2018
11/07/2018
12/14/2018
12/26/2018

OWNER/DEVELOPER
 SWBC BUILDERS
 5049 SHERRY LANE #760
 DALLAS, TX 75226
 Ph. (214) 987-8317
 Contact: SPENCER BYINGTON

17193
 C14

SWBC ROCKWALL
 Lot 1, Block A
 SWBC ROCKWALL ADDITION, PHASE I
 21280 Acres
 in the
 CITY OF ROCKWALL, TEXAS
 J.M. ALLEN SURVEY, ABSTRACT NO. 2
 ROCKWALL COUNTY, TEXAS

MCADAMS
 TBPE 19762

The John R. McAdams Company, Inc.
 111 Hillside Drive
 Lewisville, Texas 75057
 972.438.9712
 201 Country View Drive
 Rockwall, Texas 75087
 940.246.1817
 TBPE: 19762 TBPLS: 10194440
 www.mcadamsco.com

ULTIMATE DRAINAGE AREA MAP

SWBC ROCKWALL
 Lot 1, Block A
 SWBC ROCKWALL ADDITION, PHASE I
 21280 Acres
 in the
 CITY OF ROCKWALL, TEXAS
 J.M. ALLEN SURVEY, ABSTRACT NO. 2
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