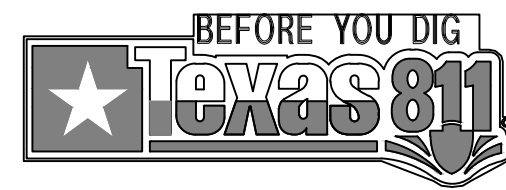


VICINITY MAP  
NOT TO SCALE



AS-BUILT

THIS RECORD DRAWING IS COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWING ON FILE AT THE OFFICES OF WINKELMANN AND ASSOCIATES, INC.

*Will Winkelmann*  
WINKELMANN AND ASSOCIATES, INC. 04-20-2026  
DATE

**\*\*\*NOTICES TO CONTRACTOR\*\*\***

EXISTING UNDERGROUND/BURIED PUBLIC, PRIVATE, AND FRANCHISE UTILITIES/FACILITIES AFFECT THIS SITE, AND ARE DEPICTED ON THE PLANS PER THE BEST AVAILABLE INFORMATION AT THE TIME THE PLANS WERE PRODUCED. WINKELMANN & ASSOC., INC. SHALL NOT BE RESPONSIBLE FOR KNOWING THE EXACT LOCATION OF ALL FACILITIES OR DEPICTING EXACT LOCATIONS OF SAID FACILITIES ON THE PLANS BEYOND WHAT IS STATED ABOVE.

CONTRACTOR(S) SHALL CALL "811" A MINIMUM OF 48 HOURS PRIOR TO BEGINNING WORK ON THE SITE, AND SHALL NOT BEGIN ANY EXCAVATION OR DEMOLITION ACTIVITIES UNTIL AFTER SAID FACILITIES HAVE BEEN MARKED AND/OR FLAGGED PER "811" OR THE FACILITY OWNERS.

CONTRACTOR(S) SHALL BE WHOLLY RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO SAID FACILITIES DUE TO WORK BEING DONE WITHOUT FOLLOWING THE PROCEDURES ABOVE.

**NOTES:**

- 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.
- ALL STORM IS PRIVATE UNLESS NOTED AS PUBLIC

COMPUTATION SHEET  
HYDRAULIC COMPUTATIONS FOR STORM DRAINS

STORM DRAIN HYDRAULIC CALCULATIONS TABLE

FROM	TO	PIPE LENGTH	DRAINAGE AREA			RUNOFF COEFF.	INCRE-MENTAL	TOTAL	TIME OF CONCENTRATION					HEADLOSS CALCULATIONS										DESIGN		INVERT ELEV.		T/C ELEV	COMMENTS							
			INCREMENTAL	NO.	AREA				10-YEAR	25-YEAR	50-YEAR	100-YEAR	Q10	Q100	Q	PIPE	n	DS	US	V100	V2(OUT)	V1V2g	V2V2g	KI	KIV2/2G	Hk	Eqv			FROM	TO					
START	END	FEET	4	5	6	7	8	9	10	11	12	13	13a	13b	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	
<b>LINE 1</b>																																				
7+66.34	7+93.84	27.50	C-10	0.069	0.069	0.90	0.062	0.062	10.00	0.00	10.00	7.10	8.30	9.00	9.80	0.44	0.61	0.00	0.61	10	0.010	0.0005	597.36	597.37	0.00	1.12	0.00	0.02	0.43	0.00	0.10	597.47	585.38	585.65	600.00	60° BEND
7+38.84	7+66.34	27.50	C-10	0.069	0.138	0.90	0.062	0.124	10.00	0.41	10.41	7.10	8.30	9.00	9.80	0.44	0.61	0.00	1.22	10	0.010	0.0018	597.21	597.26	1.12	2.23	0.02	0.08	0.75	0.01	0.10	597.36	585.10	585.38	600.00	60° WYE
7+22.78	7+38.84	16.06	C-10	0.069	0.207	0.90	0.062	0.186	10.00	0.62	10.62	7.10	8.30	9.00	9.80	0.44	0.61	0.00	1.83	10	0.010	0.0041	597.01	597.08	2.23	3.35	0.08	0.17	0.75	0.06	0.13	597.21	584.94	585.10	600.00	60° WYE
7+10.67	7+22.78	12.11	C-10	0.069	0.276	0.90	0.062	0.248	10.00	0.70	10.70	7.10	8.30	9.00	9.80	0.44	0.61	0.00	2.43	10	0.010	0.0073	596.69	596.78	3.35	4.46	0.17	0.31	0.75	0.13	0.23	597.01	584.82	584.94	600.00	60° WYE LAT 1F
6+86.34	7+10.67	24.33	C-10	0.069	0.345	0.90	0.062	0.311	10.00	0.74	10.74	7.10	8.30	9.00	9.80	0.44	0.61	0.00	3.04	10	0.010	0.0114	596.05	596.33	4.46	5.58	0.31	0.48	0.75	0.23	0.36	596.69	584.58	584.82	600.00	60° WYE
6+61.34	6+86.34	25.00	C-10	0.069	0.414	0.90	0.062	0.373	10.00	0.81	10.81	7.10	8.30	9.00	9.80	0.44	0.61	0.00	3.65	10	0.010	0.0164	595.11	595.53	5.58	6.69	0.48	0.70	0.75	0.36	0.52	596.05	584.33	584.58	600.00	60° WYE
6+36.34	6+61.34	25.00	C-10	0.069	0.483	0.90	0.062	0.435	10.00	0.88	10.88	7.10	8.30	9.00	9.80	0.44	0.61	0.00	4.26	10	0.010	0.0224	593.84	594.40	6.69	7.81	0.70	0.95	0.75	0.52	0.71	595.11	584.08	584.33	600.00	60° WYE
6+11.34	6+36.34	25.00	C-10	0.069	0.552	0.90	0.062	0.497	10.00	0.93	10.93	7.10	8.30	9.00	9.80	0.44	0.61	0.00	4.87	10	0.010	0.0292	592.19	592.92	7.81	8.93	0.95	1.24	0.75	0.71	0.93	593.84	583.83	584.08	600.00	60° WYE
6+02.62	6+11.34	8.72	C-10	0.069	0.621	0.90	0.062	0.559	10.00	0.98	10.98	7.10	8.30	9.00	9.80	0.44	0.61	0.00	5.48	10	0.010	0.0370	590.69	591.01	8.93	10.04	1.24	1.57	0.75	0.93	1.18	592.19	583.74	583.83	600.00	60° WYE
5+94.77	6+02.62	7.85			0.621	0.90		0.559	10.00	0.99	10.98	7.10	8.30	9.00	9.80				5.48	24	0.013	0.0006	590.58	590.59	10.04	1.74	1.57	0.05	0.10	0.16	0.10	590.69	585.49	585.57	600.00	PIPE SIZE CHANGE
5+77.66	5+94.77	17.11			0.621	0.90		0.559	10.00	1.07	10.98	7.10	8.30	9.00	9.80				5.48	24	0.013	0.0006	590.47	590.48	1.74	1.74	0.05	0.05	0.35	0.02	0.10	590.58	585.32	585.49	600.00	45° BEND
5+29.85	5+77.66	47.81			0.621	0.90		0.559	10.00	1.23	10.98	7.10	8.30	9.00	9.80				5.48	24	0.013	0.0006	590.34	590.37	1.74	1.74	0.05	0.05	0.35	0.02	0.10	590.47	584.84	585.32	600.00	45° BEND
2+82.37	5+29.85	247.48	C-6	0.996	1.617	0.90	0.896	1.455	10.00	1.69	11.69	7.10	8.30	9.00	9.80	6.36	8.78	0.00	14.26	24	0.013	0.0040	589.12	590.10	1.74	4.54	0.05	0.32	0.75	0.04	0.24	590.34	582.37	584.84	591.50	60° WYE LAT 1E
1+30.23	2+82.37	152.14	C-5,C-7	10.809	12.426	0.90	9.728	11.183	10.00	2.59	12.59	7.10	8.30	9.00	9.80	69.07	95.34	0.00	109.60	6x3	0.015	0.0039	588.07	588.66	4.54	8.33	0.32	0.62	0.50	0.16	0.46	589.12	581.99	582.37	589.50	JUNCTION BOX LAT 1C
0+76.31	1+30.23	53.92	C-2,C-3,C-4,C-16	6.572	18.998	0.90	5.915	17.098	10.00	3.00	13.00	7.10	8.30	9.00	9.80	42.00	57.97	0.00	167.56	60	0.013	0.0041	587.03	587.25	6.33	8.53	0.62	1.13	0.50	0.31	0.82	588.07	581.85	581.99	589.50	JUNCTION BOX LAT 1B
0+00.00	0+76.31	76.31			18.998	0.90		17.098	10.00	3.10	13.00	7.10	8.30	9.00	9.80				167.56	60	0.013	0.0025	586.44	586.63	8.53	8.53	1.13	1.13	0.35	0.40	0.40	587.03	581.66	581.85	589.50	45° BEND
<b>LINE 2</b>																																				
8+82.96	9+19.43	36.47	C-12	0.940	0.940	0.90	0.846	0.846	10.00	0.00	10.00	7.10	8.30	9.00	9.80	6.01	8.29	0.00	8.29	42	0.013	0.0025	587.79	587.88	0.00	3.26	0.00	0.17	1.25	0.00	0.21	588.09	586.58	586.67	592.50	CURB INLET
7+63.05	8+82.96	119.91			0.940	0.90		0.846	10.00	0.19	10.00	7.10	8.30	9.00	9.80				8.29	42	0.013	0.0025	587.39	587.69	3.26	3.26	0.17	0.17	0.35	0.06	0.10	587.79	586.28	586.58	592.50	45° BEND
7+44.45	7+63.05	18.60	C-10,C-13	2.955	3.895	0.90	2.660	3.506	10.00	0.80	10.80	7.10	8.30	9.00	9.80	18.88	26.06	0.00	34.35	42	0.013	0.0025	589.52	589.57	3.26	5.01	0.17	0.39	0.75	0.12	0.29	587.39	586.23	586.28	591.76	60° WYE LAT 2G
7+38.64	7+44.45	5.81			3.895	0.90		3.506	10.00	0.86	10.80	7.10	8.30	9.00	9.80				34.35	42	0.013	0.0025	589.37	589.39	5.01	5.01	0.39	0.39	0.35	0.14	0.14	589.52	586.22	586.23	591.76	45° BEND
6+87.59	7+38.64	51.05			3.895	0.90		3.506	10.00	0.88	10.80	7.10	8.30	9.00	9.80				34.35	42	0.013	0.0025	589.11	589.24	5.01	5.01	0.39	0.39	0.35	0.14	0.14	589.52	586.09	586.22	591.76	45° BEND
6+52.68	6+87.59	34.91			3.895	0.90		3.506	10.00	1.05	10.80	7.10	8.30	9.00	9.80				34.35	42	0.013	0.0025	588.88	588.97	5.01	5.01	0.39	0.39	0.35	0.14	0.14	589.11	586.00	586.09	591.76	45° BEND
6+05.12	6+52.68	47.56			3.895	0.90		3.506	10.00	1.17	10.80	7.10	8.30	9.00	9.80				34.35	42	0.013	0.0025	588.63	588.75	5.01	5.01	0.39	0.39	0.35	0.14	0.14	588.88	585.88	586.00	591.76	45° BEND
3+43.73	6+05.12	261.39	C-11	0.205	4.100	0.90	0.185	3.690	10.00	1.32	11.32	7.10	8.30	9.00	9.80	1.31	1.81	0.00	36.16	42	0.013	0.0025	587.68	588.33	5.01	5.03	0.39	0.39	0.75	0.29	0.29	588.63	585.23	585.88	593.40	60° WYE LAT 2E
2+03.69	3+43.73	139.84	C-15,C-8	0.765	4.865	0.90	0.689	4.379	10.00	2.19	12.19	7.10	8.30	9.00	9.80	4.89	6.75	0.00	42.91	48	0.013	0.0025	586.48	586.83	5.03	5.24	0.39	0.43	0.50	0.20	0.23	587.68	584.88	585.23	589.87	JUNCTION BOX LAT 2D
1+40.75	2+03.69	13.14			4.865	0.90		4.379	10.00	2.63	12.19	7.10	8.30	9.00	9.80				42.91	48	0.013	0.0025	586.29	586.33	5.24	5.24	0.43	0.43	0.35	0.15	0.15	586.48	584.85	584.88	589.87	45° BEND
1+57.03	1+40.75	33.72			4.865	0.90		4.379	10.00	2.68	12.19	7.10	8.30	9.00	9.80				42.91	48	0.013	0.0025	586.06	586.14	5.24	5.24	0.43	0.43	0.35	0.15	0.15	586.29	584.76	584.85	589.87	45° BEND
1+46.91	1+57.03	10.12	C-9	0.302	5.167	0.90	0.272	4.650	10.00	2.78	12.78	7.10	8.30	9.00	9.80	1.93	2.66	0																		