



LEGEND

- A-X
X XX AC DRAINAGE AREA LABELS
- ← DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- - - - - EXISTING CONTOURS

NOTE: 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.

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE CARRILLO ENGINEERING, HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

DATE: SEPTEMBER 15, 2022

Existing Drainage Area Calculations- (in accordance with City of Rockwall Design Drainage Manual)

Drainage Area	Area (Ac)	Runoff Coefficient C	Minimum Inlet Time (min)	10-Year Intensity (in/hr)	10-Year Flow (cfs)	25-Year Intensity (in/hr)	25-Year Flow (cfs)	50-Year Intensity (in/hr)	50-Year Flow (cfs)	100-Year Intensity (in/hr)	100-Year Flow (cfs)	Description
A-1	0.23	0.50	10.00	7.20	0.83	8.90	1.02	9.00	1.04	9.80	1.13	Surface drains to Cemetery Road
A-2	0.89	0.50	10.00	7.20	3.20	8.90	3.96	9.00	4.01	9.80	4.36	Surface drains off-site
A-3	0.04	0.50	10.00	7.20	0.14	8.90	0.18	9.00	0.18	9.80	0.20	Surface drains off-site
OS-1	0.27	0.90	10.00	7.20	1.75	8.90	2.16	9.00	2.19	9.80	2.38	Surface drains off-site
OS-2	1.16	0.90	10.00	7.20	7.52	8.90	9.29	9.00	9.40	9.80	10.23	Surface drains to Cemetery Road
OS-3	0.34	0.90	10.00	7.20	2.20	8.90	2.72	9.00	2.75	9.80	3.00	Surface drains to Ex. 10' Inlet
Total	2.93				15.65		19.34		19.56		21.30	

COMPUTATION SHEET FOR DETERMINING CAPACITY OF CURB OPENING INLET ON GRADE

ON-GRADE INLET CAPACITY CALCULATION TABLE

DESIGN POINT	INLET NO.	AREA (ACRES)	RUNOFF "c"	CONC. TIME (MIN)	"So" STREET LONG SLOPE (FT/FT)	STREET SECTION (TYPE)	F-F PAVEMENT WIDTH (FT)	Sx CROWN SLOPE (FT/FT)	MANNING'S COEFFICIENT FOR PAVEMENT "n"	DESIGN FREQUENCY	10-YEAR INTENSITY (IN/HR)	10-YEAR RUNOFF (CFS)	10-YEAR CARRYOVER FLOW	10-YEAR TOTAL GUTTER Q (CFS)	STREET CAPACITY (CFS)	DESIGN FREQUENCY	100-YEAR INTENSITY (IN/HR)	100-YEAR RUNOFF (CFS)	100-YEAR CARRYOVER FLOW	100-YEAR TOTAL GUTTER Q (CFS)	DESIGN STORM	DEPTH OF FLOW Y ₀	SPREAD OF FLOW (FT)	PICKUP PER FOOT Q ₀ /L ₀ (CFS/FT)	LENGTH REQUIRED L ₀ 100YR	LENGTH REQUIRED L ₀ 5YR	LENGTH PROVIDED L (FT)	L/L ₀	E	INLET CAPACITY (CFS)	10-YEAR CARRYOVER FLOW "q" (CFS)	100-YEAR CARRYOVER FLOW "q" (CFS)	COMMENTS
1	ExCurb Inlet	0.34	0.90	10	0.02	V-Crown	60	0.02	0.013	10	7.20	2.2		2.2	42.9	100	9.80	3.0		3.0	100-YEAR	0.1771	0.5	0.63	17	12	10	0.59	0.80	2.4	0.00	0.60	0.5 CFS Carryover Flow in 100-Year Storm to Proposed Drainage Area A-7; 0 CFS Carryover in 10-Year Storm. Street and Right-of-Way have adequate capacity.



RIDGE ROAD RETAIL CENTER
2930 SOUTH RIDGE ROAD
LAKE RIDGE ESTATES, LOT 26
ROCKWALL, TEXAS
EXISTING DRAINAGE AREA MAP

Issue Dates:
 NOVEMBER 22, 2019
 JANUARY 17, 2020
 FEBRUARY 20, 2020

Date	Revisions

Scale:
 Drawn By:
 Checked By:

Sheet
C4.00

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