

PLAN OF RECORD

This record drawing is a compilation of this sealed engineering drawing for permit and construction, by others, modified based on field observations by BIG RED DGS. The information shown on this record drawing is not intended to be used for any other purpose. The engineer responsible for the design of this drawing cannot be verified for accuracy or completeness. Review is for general conformance with construction documents and on-site improvements. The original approved sealed drawings are on file at the offices of the City of Rockwall.

Therefore, with the exceptions noted and clouded, this "Plan of Record" is true and correct to the best of my knowledge and was prepared under my supervision.

[Signature]



September 28, 2018

Detection System	Allowable 5 Minute Release Rate (cfs)	Peak Storage (cft)	Peak Elevation (ft)	Calculated Release Rate (cfs)	Allowable Release Rate (cfs)	Peak Storage (cft)	Peak Elevation (ft)	Calculated Release Rate (cfs)	Allowable Release Rate (cfs)	Peak Storage (cft)	Peak Elevation (ft)	Calculated Release Rate (cfs)	Allowable Release Rate (cfs)	Peak Storage (cft)	Peak Elevation (ft)	Calculated Release Rate (cfs)	Allowable Release Rate (cfs)	
B	2.00	9086.47	554.24	2.00	2.04	10572.22	554.51	2.09	2.80	12227.04	554.84	2.19	3.97	16450.70	556.00	3.82		

System: Retail Site Basin B
 Storage Volume = 9086.47 cft
 Top of MH = 557.50
 Top of Weir = 551.00
 Top of Weir = 550.72
 Weir Crest = 550.00
 Weir Slope = 3:0.00

Orifice Flow $Q = C_d A \sqrt{2gh}$

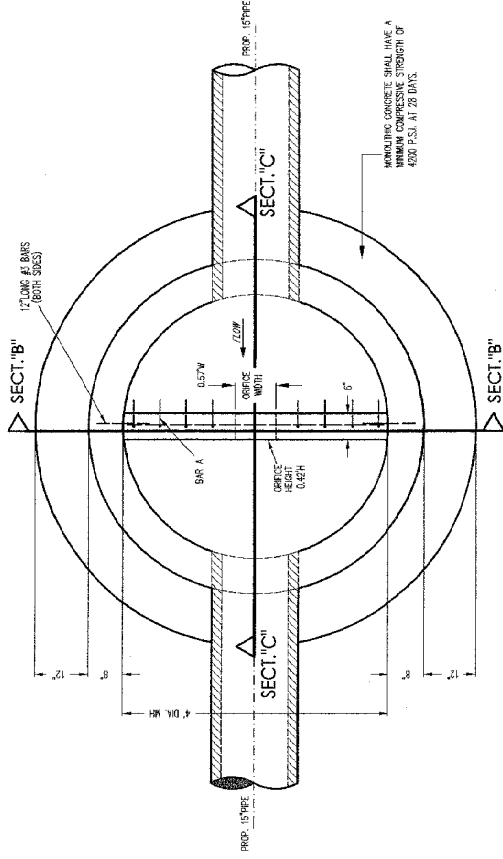
W (ft)	H (ft)	Area (sq ft)	IS	Q5	Q10	Q25	Q50	Q100
0.57	0.42	0.24	557.21	3.04	3.30	2.09	1.25	0.63
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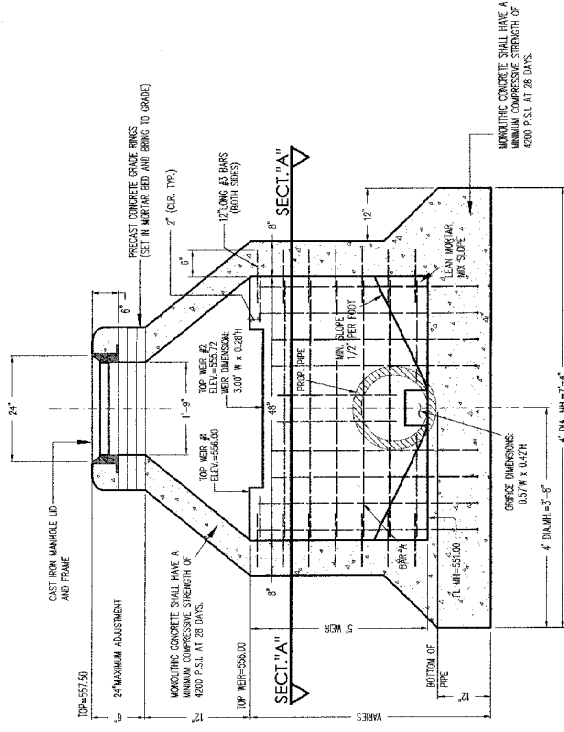
THE ENGINEER'S SEAL APPEARING IN THIS BOX APPLIES ONLY TO THE WER AND ORIFICE HYDRAULIC CALCULATIONS FOR THE CONCRETE WEIR ON THIS SHEET.



- NOTES: PIPES ENTERING A MANHOLE THERE SHALL BE MINIMUM OF TWO-TENTHS OF A FOOT (0.2') DROP BETWEEN INVERTS.
- WHERE UNEQUAL PIPE ENTER A MANHOLE, THE CROWN OF THE PIPES SHALL BE SET AT THE SAME ELEVATION.
 - CONCRETE SHALL BE A MONOLITHIC POUR.
 - ADDITIONAL MANHOLE REINFORCING OTHER THAN SHOWN IN DETAIL BELOW SHALL BE BY MANUFACTURER'S RECOMMENDATIONS.
 - ALL REINFORCING STEEL SHALL HAVE A MINIMUM OF 2" CLEAR COVER.



SECTION DETAIL "A"
1/15



SECTION DETAIL "B"
1/15

OUTLET CONTROL STRUCTURE "B"

NOTE: ALL REINFORCING STEEL FOR WEIR SHALL BE EPOXY COATED.

SECTION DETAIL "C"
1/15

OR BY #4 BAR @ 6" C/C

THE ENGINEER'S SEAL APPEARING IN THIS BOX APPLIES ONLY TO THE STRUCTURAL DETAILS FOR THE CONCRETE WEIR ON THIS SHEET.



DATE: 09/28/18
 PROJECT: 180400000
 SHEET NO.: 10 OF 16
 SHEET TITLE: OUTLET CONTROL STRUCTURE "B"
 CLIENT: LARSEN RETAIL DEVELOPMENT
 3154 CREEK HILL LARSEN SCHOOL
 ROCKWALL, ROCKWALL COUNTY, TEXAS

NO.	DATE	REVISIONS

NDM
 NATHAN D. MAIER
 CIVIL ENGINEER, P.E.
 1100 W. HUNTERS LANE
 ROCKWALL, TEXAS 75087
 WWW.NDMENGINEERING.COM

Two Northparkes, 8800 Park Lakes, Suite 600
 Dallas, Texas 75221 | 214.739.4741

SHEET NO.	10	OF	16
DATE	09/28/18	SCALE	AS SHOWN
PROJECT	180400000	DATE	09/28/18
CLIENT	LARSEN RETAIL DEVELOPMENT	PROJECT	180400000
PROJECT	3154 CREEK HILL LARSEN SCHOOL	PROJECT	3154 CREEK HILL LARSEN SCHOOL
PROJECT	ROCKWALL, ROCKWALL COUNTY, TEXAS	PROJECT	ROCKWALL, ROCKWALL COUNTY, TEXAS