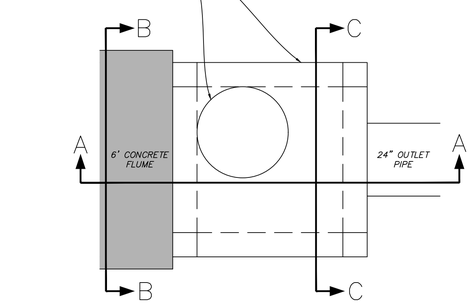
POND RESULTS SHOWN FOR REFERENCE. REFER TO THE STUDY SUBMITTED FOR ST. TERESA OF CALCUTTA CATHOLIC CHURCH FOR ANALYSIS POINT COMPARISON AND POND SIZING

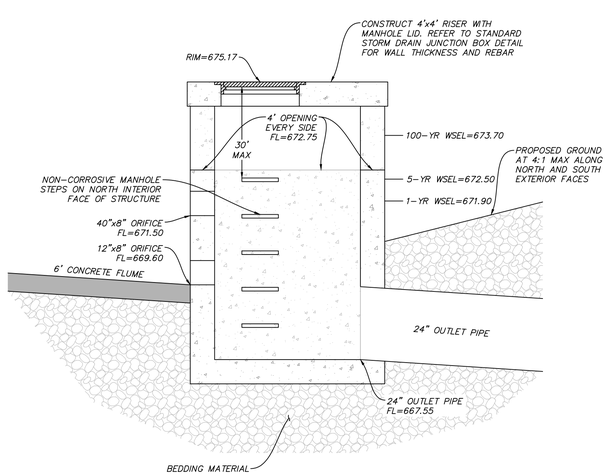
Proposed Pond Results

Storm (year)	Peak inflow (cfs)	Peak Outflow (cfs)	WSEL	Storage (ac-ft)	Freeboard
1	19.30	7.8	671.9	0.3	3.6
5	29.80	14.1	672.5	0.5	3
100	57.60	30.9	673.7	0.9	1.8
Outfall Structure	12" x 8" orifice opening @ 669.6', 40" x 8" orifice opening @ 671.50', 12' rectangular weir @ 672.75', and a 24" RCP outlet pipe @ 667.55 assumed at 1.29% per as-builts				
Overflow Structure	62' broad crested weird @ 674.50'				
Top of Bank	675.5				

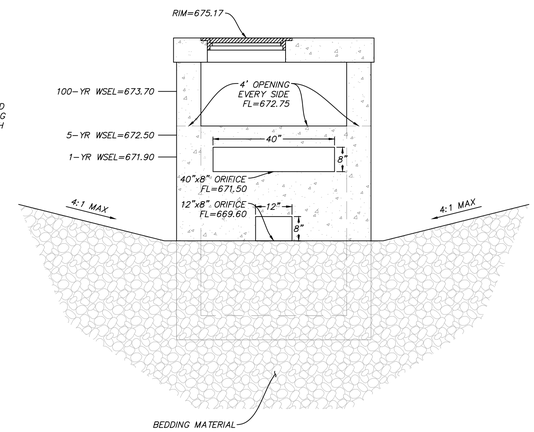
Stage	Elevation	Area (sq. ft.)	Storage (ac-ft)	Discharge (cfs)
0	669.6	86.09	0.00	0
0.4	670	492.21	0.00	0.861
0.9	670.5	6744.93	0.04	2.416
1.4	671	8434.74	0.13	3.315
1.9	671.5	9930.76	0.23	4.018
2.4	672	11414.7	0.36	8.627
2.9	672.5	12938.49	0.50	13.88
3.4	673	14508.16	0.65	21.29
3.9	673.5	16128.27	0.83	29.8
4.4	674	17805.52	1.02	31.98
4.9	674.5	19519.58	1.24	33.6
5.4	675	21252.75	1.47	35.03
5.9	675.5	23382.21	1.73	36.33



OUTLET STRUCTURE TOP VIEW
NTS



SECTION A-A
NTS



SECTION B-B
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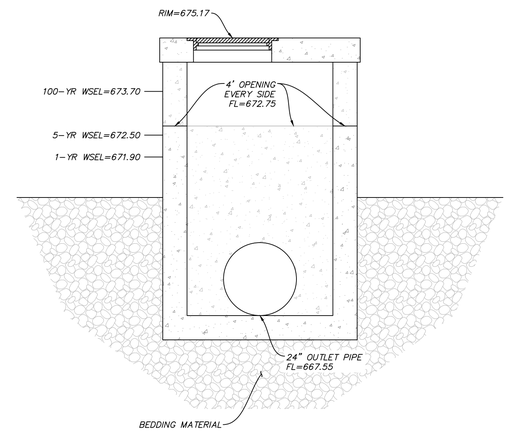

SECTION C-C
NTS

1 POND OUTFALL STRUCTURE DETAIL
NOT TO SCALE

ST. TERESA OF CALCUTTA CATHOLIC CHURCH
FORT WORTH, TEXAS

POND DETAILS

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PROJECT NUMBER:	3788-00-01
PROJECT MANAGER:	R. CRONIN
DRAWN BY:	G. SANCHEZ
CHECKED BY:	V. ARRUDA
ISSUE DATE:	2/16/2024

REV.	DATE	DESCRIP.	BY

SHEET CONTENT:

POND DETAILS

SHEET NO:
C9.2

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