



GENERAL DESIGN NOTES:

1. STRENGTH DESIGN METHOD I.A.W. ACI 318
2. APPLICABLE DESIGN CODES:
 - ACI 318 (MAIN DESIGN SPECIFICATION)
 - ASTM C913 (PRODUCT SPECIFICATION)
 - ASTM C890 (LOADING SPECIFICATION)
3. PRECAST RATED FOR HS20 LIVE LOAD W/ IMPACT I.A.W. AASHTO SPECIFICATION
4. DESIGN FILL RANGE = 0'(MIN) TO 3'(MAX).
5. GROUND WATER TABLE FOR STRUCTURAL CALCULATIONS IS BASED UPON GROUND WATER TABLE AT 5'-0" BELOW GRADE. IF DESIGNOR ACTUAL WATER TABLE IS LESS THAN ASSUMED, REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE PRECAST, INC. UPON REVIEW OF THIS SUBMITTAL.
6. LATERAL DESIGN PRESSURES:
 - EQUIV DRY SOIL FLUID PRESSURE = 47 PCF
 - EQUIV SATURATED SOIL FLUID PRESSURE = 88 PSF
 - LIVE LOAD SURCHARGE PRESSURE = 2'
7. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 4,000 PSI.
8. REINFORCEMENT: ASTM A615, GRADE 60.
9. JOINT SEALANT: BUTYL RUBBER, SS-0100210
10. THESE CALCULATIONS DO NOT INCLUDE ANY LATERAL OR SURCHARGE LOADS PRODUCED BY OTHER FOOTINGS OR FOUNDATIONS ADJACENT TO THIS STRUCTURE. THIS STRUCTURE SHALL BE KEPT A MINIMUM OF 1:1 RATIO AWAY FROM OTHER FOOTINGS OR FOUNDATIONS.

NOTES TO CONTRACTOR:

1. PLEASE VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER COORDINATION TO ENSURE THAT AN ADEQUATE BEARING SURFACE IS PROVIDED (I.E. LEVEL AND COMPACTED) PER PROJECT SPECS AND DRAWINGS.
 3. AFTER PIPES ARE INSTALLED IN BLOCKOUTS, ALL ANNULAR SPACES SHALL BE FILLED WITH A MIN OF 3,000 PSI GROUT, TIGHT TO THE UNDERSIDE OF UPPER SECTION FOR FULL THICKNESS OF VAULT WALL.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY AND INSTALL ALL PIPING AND SAMPLING TEES.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO FILL WITH CLEAN WATER PRIOR TO START-UP.
 6. STRUCTURE IS NOT DESIGNED FOR INTERNAL WATER PRESSURE PRIOR TO BACKFILLING. THE CONTRACTOR SHALL BACKFILL STRUCTURE PRIOR TO TESTING OR PLACING IN SERVICE.
- NOTES TO REVIEWING ENGINEER:**
1. DESIGN AS SHOWN HEREIN IS APPLICABLE ONLY TO STRUCTURAL PERFORMANCE OF PRECAST CAPACITY (GALLONS) SHALL BE DETERMINED BY OTHERS BASED ON SPECIFIC PROJECT REQUIREMENTS.

REVISION	DATE	BY	SHEET
A			
B			

REVISIONS

DESCRIPTION OF REVISION	REQUESTED BY

SCALE: 1/4" = 1'-0"

SECTION	WEIGHT (LBS)	CUMULATIVE
4.2" OD TOP	18,300	4,52
4.2" OD BASE	19,100	4,72
FLOW BAFFLE	1,800	0,44
SED WEIR	450	0,11
OIL BAFFLE	1,800	0,44
PRECAST TOTAL	41,450	

APPROVED W/ NO EXCEPTION TAKEN	APPROVED AS NOTED	REVIEWED AND RESUBMIT
SIGNATURE	DATE	DATE

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
7/19/17	TM	PPS	EMT		
DRAWING NUMBER	2000-RO-OWS	REVISION		SHEET	
		REV DATE		1 OF 6	

4865 STOUGHARD CONCRETE, INC.
 OFFICE (704) 986-9691, FAX (704) 986-4690
 N.C. ENGINEERING LICENSE # 5102

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2000-3000 GALLON OIL WATER SEPARATOR
 SUBMITTAL
 6X12X7' ID VAULT

CUSTOMER	
DATE	7/19/17
SALES	TM
DRAWN	PPS
ENGINEER	EMT
CHECKED	
SALES ORDER	
REVISION	
REV DATE	
SHEET	1 OF 6