



INFORMATION NEEDED:

1. TOP OF SEPARATOR ELEVATION _____
2. INLET PIPE SIZE _____
3. INLET PIPE ELEVATION _____
4. OUTLET PIPE SIZE _____
5. OUTLET PIPE ELEVATION _____

REVISIONS

REV	DATE	BY	SHEET	DESCRIPTION OF REVISION	REQUESTED BY
A					
B					

GENERAL DESIGN NOTES:

1. STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
2. APPLICABLE DESIGN CODES:
 - ACI 318 (MAIN DESIGN SPECIFICATION)
 - ASTM C913 (PRODUCT SPECIFICATION)
3. PRECAST RATED FOR HS20 LIVE LOAD W/ IMPACT I.A.W. AASHTO SPECIFICATION
4. DESIGN FILL RANGE = 0'(MIN) TO 2'(MAX)
5. GROUND WATER TABLE ASSUMED AT 3'-6" BELOW GRADE. IF DESIGN (OR ACTUAL) WATER TABLE IS LESS THAN ASSUMED, REVIEWING ENGINEER TO NOTIFY OLDCASTLE PRECAST UPON REVIEW OF THIS SUBMITTAL.
6. LATERAL DESIGN PRESSURES:
 - EQUIV DRY SOIL FLUID PRESSURE = 47 PCF
 - EQUIV SATURATED SOIL FLUID PRESSURE = 80 PSF
 - LIVE LOAD SURCHARGE PRESSURE = 2'.
7. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS :
 - f_c TOP & BAFFLES = 5,000 PSI (MIN)
 - f_c BASE = 6,000 PSI (MIN)
8. REINFORCEMENT:
 - CARBON-STEEL DEFORMED BARS: ASTM A615, F_y = 60KSI (MIN).
9. JOINT SEALANT :
 - CS-102 CONSEAL BUTYL RUBBER SEALANT (OR EQUIV.) I.A.W. ASTM C990 FED. SPEC. SS-S-210,
10. PRECAST DESIGN DOES NOT INCLUDE ANY LATERAL OR SURCHARGE LOADS FROM OTHER BUILDINGS 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 SPECIFICATIONS AND DRAWINGS..
3. AFTER PIPES ARE INSTALLED IN BLOCKOUTS, ALL ANNULAR SPACES SHALL BE FILLED WITH A MIN. OF 3,000 psi CONCRETE, TIGHT TO THE UNDERSIDE OF UPPER SECTION FOR FULL THICKNESS OF VAULT WALL.
4. CONTRACTOR TO RESPONSIBLE FOR THE FOLLOWING:
 - SUPPLY & INSTALL ALL PIPING & SAMPLING TEES
 - GROUT IN ALL BAFFLES ON BOTH SIDES
5. DESIGN, AS SHOWN HEREIN, IS APPLICABLE ONLY TO STRUCTURAL PERFORMANCE OF PRECAST. CAPACITY (GALLONS) SHALL BE DETERMINED BY OTHERS BASED ON SPECIFIC PROJECT REQUIREMENT

APPROX. WEIGHTS

SECTION	WEIGHT (lbs)	Concrete(CY)
6" TOP	2,900	0.72
48" BASE	7,900	1.95
BAFFLES	750 EACH	0.18
WEIR	250	0.06



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NC ENGINEERING LICENSE #F-1002

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500 GALLON OIL WATER SEPARATOR SUBMITTAL LAYOUT

CUSTOMER

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
11/2/17					
DRAWING NUMBER				REVISION	SHEET
4x6-500OWS				REV DATE	1 OF 6