



**INFORMATION NEEDED:**

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

**SECTION A-A**  
SCALE: 1/4" = 1'-0"

**REVISIONS**

DESCRIPTION OF REVISION

REQUESTED BY

APPROVED W/ NO EXCEPTIONS TAKEN:

APPROVED AS NOTED:

REVISED AND RESUBMIT:

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

CUSTOMER \_\_\_\_\_ SALES \_\_\_\_\_ DRAWN \_\_\_\_\_ ENGINEER \_\_\_\_\_ CHECKED \_\_\_\_\_ SALES ORDER \_\_\_\_\_

DATE 5/30/17 DRAWING NUMBER 0612-20000WS REV DATE 1 OF 6

**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)
3. PRECAST RATED FOR HS20 LIVE LOAD W/ IMPACT I.A.W. AASHTO SPECIFICATION
4. DESIGN FILL RANGE = (QMIN) TO 2(QMAX)
5. GROUND WATER TABLE ASSUMED AT 5' 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:
7. EQUIV DRY SOIL FLUID PRESSURE = 47 PCF
8. EQUIV SATURATED SOIL FLUID PRESSURE = 80 PSF
9. LIVE LOAD SURCHARGE PRESSURE = 2'
10. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 5,000 PSI.
11. REINFORCEMENT: ASTM A615, GRADE 60.
12. JOINT SEALANT: BUTYL RUBBER SS-0100210
13. 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.

**NOTE TO REVIEWING ENGINEER:**

1. SUPPLY AND INSTALL ALL PIPING AND SAMPLING TEES.
2. DESIGN, AS SHOWN HEREIN, IS APPLICABLE ONLY TO STRUCTURAL PERFORMANCE OF PRECAST CAPACITY (GALLONS) SHALL BE DETERMINED BY OTHERS BASED ON SPECIFIC PROJECT REQUIREMENT

**NOTE TO CONTRACTOR:**

1. SUPPLY AND INSTALL ALL PIPING AND SAMPLING TEES.
2. GROUT IN ALL PIPES AND WEIRS.
3. FILL WITH CLEAN WATER PRIOR TO START UP OF SYSTEM.
4. VERIFY SIZE AND LOCATION OF ALL OPENINGS.

\*\*THIS MUST BE FILLED OUT BEFORE MANUFACTURING BEGINS\*\*

WEIGHTS		
SECTION	WEIGHT (lbs)	CONCRETE (CY)
LARGE BAFFLE	1,850 (EACH)	0.46
WEIR BAFFLE	405	0.10
45" TOP	15,480	3.82
39" BASE	14,222	3.51
<b>TOTAL</b>	<b>33,907</b>	

4065 STOUGH RD, CONCORD, NC  
OFFICE 704-786-4801 FAX 704-786-4800  
NC ENGINEERING LICENSE #F-1002

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6'x12'x7'-0" 2000 GALLON OIL WATER SEPARATOR  
SUBMITTAL LAYOUT