

SUNTREE TECHNOLOGIES MODEL NO. NSBB-8-14-100

FLOW & BY-PASS SPECIFICATIONS FOR BIOMASS SEPARATING SCREEN SYSTEM, SEDIMENT COLLECTION CHAMBERS, AND SKIMMER SPECIFICATIONS

1. Pipe inflow area (Drawn as 42" RCP) _____ 9.61 sq.ft.

SCREEN SPECIFICATIONS:

- 2. Open orifice area in screen system _____ 53.47 sq.ft.
- 3. Open orifice area in screen system _____ 26.73 sq.ft. with 50% blockage
- 4. Open orifice area in screen system _____ 13.36 sq.ft. with 75% blockage
- 5. Minimum by-pass through screen system _____ 16.77 sq.ft. below the top surface of the pipe
- 6. Minimum by-pass around screen system _____ 13.75 sq.ft. below the top surface of the pipe
- 7. Screen system storage volume _____ 110 cu.ft.

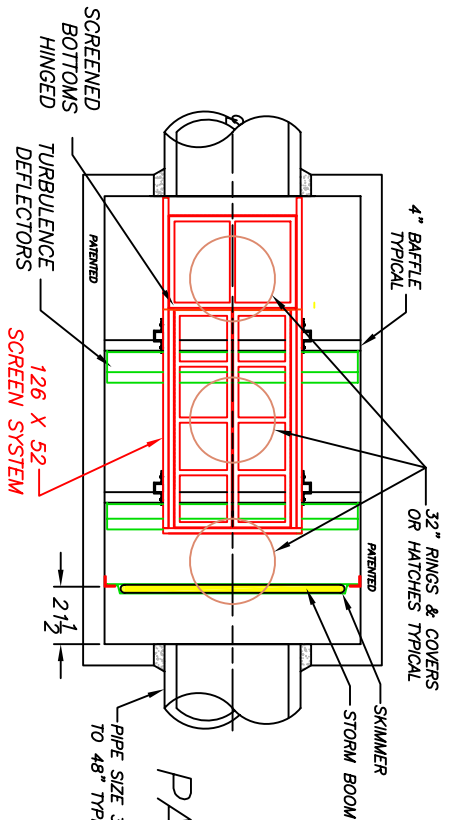
SEDIMENT STORAGE:

- 8. Volume of first sediment chamber _____ 120 cu.ft.
- 9. Volume of second sediment chamber _____ 112.7 cu.ft.
- 10. Volume of third sediment chamber _____ 112.7 cu.ft.
- 11. Total sediment volume _____ 355.4 cu.ft.

SKIMMER SPECIFICATIONS:

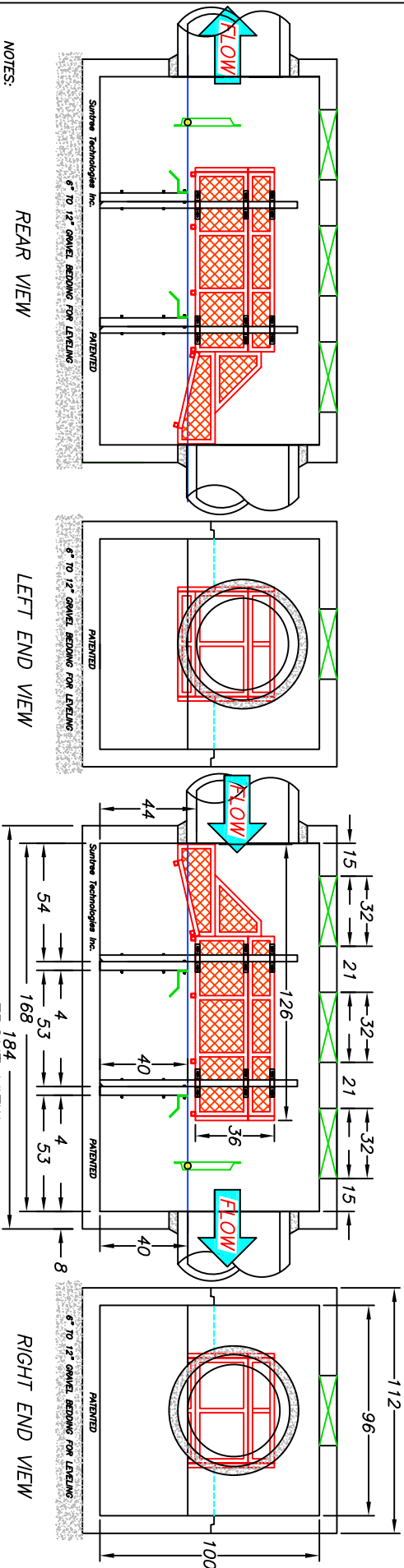
- 12. Flow area under skimmer _____ 12.67 sq.ft.
- 13. Area of pipe in line with skimmer _____ 5.68 sq.ft.
- 14. Area between the skimmer and the outflow _____ 9.24 sq.ft. pipe parallel with the surface of the pipe

Suntree Technologies Inc.
798 Osprey Lake Road, Cocoa, Florida 32922
PH: 321-637-7552 FAX: 321-637-7554



PLAN VIEW

INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)



REAR VIEW

LEFT END VIEW

FRONT VIEW

RIGHT END VIEW

- NOTES:
- 1. CONCRETE 28 DAY COMPRESSIVE STRENGTH FC=5000 PSI
 - 2. REINFORCING: ASTM A-615 GRADE 60
 - 3. SUPPORTS AND H2O LOADING AS INDICATED BY ASHTO.
 - 4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
 - 5. ALL WALLS, TOP & BOTTOM ARE 8" THICK
 - 6. TREATMENT DESIGN FLOW FOR 90% REMOVAL EFFICIENCY OF TSS IS 32 CFS.
 - 7. PEAK DESIGN FLOW IS 60 CFS.

SUNTREE TECHNOLOGIES INC. 798 OSPREY LAKE RD. SUITE #2 COCOA FL 32922		PROJECT:	
NUTRIENT SEPARATING BAFFLE BOX MODEL NO. NSBB-8-14-100		DRAWING #:	2-10-09-06-01
DATE: 10/09/06	SCALE: SF = 72	REVISIONS:	DATE:
DRAFTER: T.H.H.	UNITS = INCHES	REVISIONS:	DATE: