UNISTORM ONLINE SYSTEM / ADAPT TO SITE LAYOUT

DATE: 1-25-08
DWG. NO.: Detail - Unistorm-R

UNISTORM SIZING TABLE						
UNISTORM MODEL #	D (ft.)	MAX. S (ft.)	IMPERVIOUS AREA (acres)	INLET PIPE (in.)	TREATMENT FLOW (cfs)	PEAK FLOW (cfs)
5R	5	5.0±	0 - 3	12-15	0 - 2	6
6R	6	5.3±	3 - 4	18	2 - 3	7
7R	7	5.6±	4 - 6	21	3 - 5	9
8R	8	6.0±	6 - 10	24	5 - 7	16
10R	10	6.6±	10 - 12	30	7 - 10	25
12R	12	7.3±	12 - 15	36	10 - 13	35

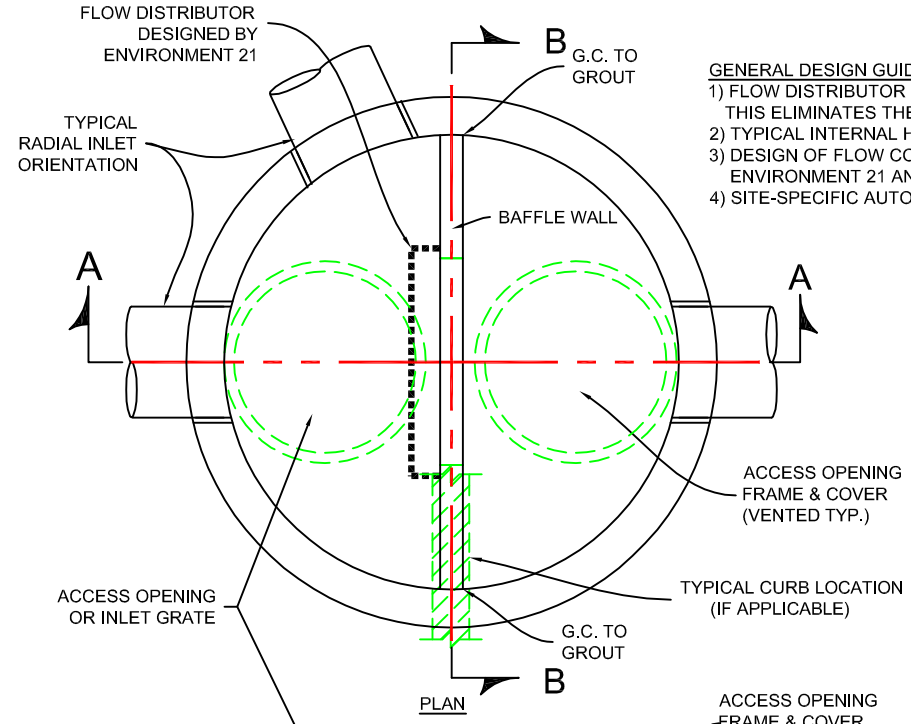
environment 21
Global Stormwater Solutions
P.O. Box 55 | East Pembroke | NY 14056
Phone: 1-800-809-2801 | Fax: 1-800-809-2801
www.env21.com | enveng@env21.com

NOTES:
1) RAINFALL INTENSITY USED FOR TREATMENT FLOW = 0.80–1.0 IN/HR

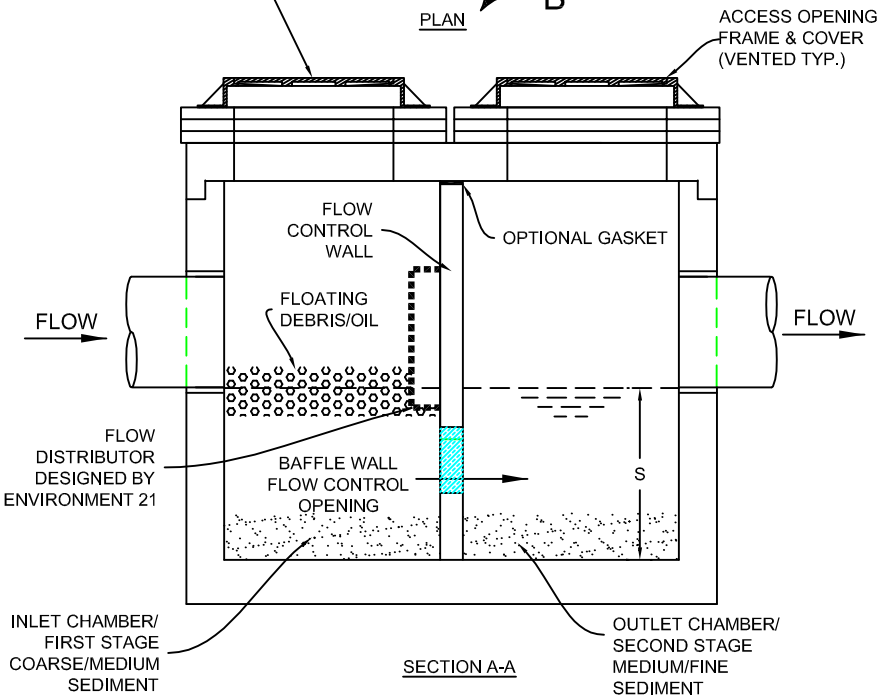
MANUFACTURING NOTES:
1) DESIGN OF INTERNAL BAFFLE WALL PROVIDED TO LICENSED MANUFACTURER BY ENVIRONMENT 21, LLC.
2) LOCATION AND SIZE OF MANHOLE OPENINGS MAY BE ADJUSTED BY LICENSED MANUFACTURER.
3) G.C. TO GROUT INLET AND OUTLET PIPES.

CALL: 1-800-809-2801

GENERAL DESIGN GUIDELINES FOR UNISTORM TREATMENT CHAMBER
1) FLOW DISTRIBUTOR USED TO DISSIPATE INLET FLOW STIRRING POWER. THIS ELIMINATES THE NEED TO BYPASS HIGH FLOW EVENTS.
2) TYPICAL INTERNAL HEAD LOSS FOR DESIGN STORM IS 0.20 FT.
3) DESIGN OF FLOW CONTROL BAFFLE WALL AND FLOW DISTRIBUTOR BASED ON ENVIRONMENT 21 ANALYSIS OF SITE-SPECIFIC STORM SEWER HYDRAULICS.
4) SITE-SPECIFIC AUTOCAD DRAWING DETAIL PREPARED BY ENVIRONMENT 21 AVAILABLE

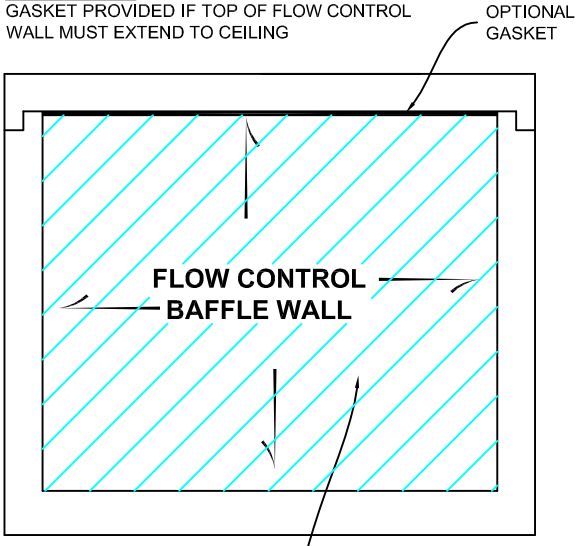


PLAN



SECTION A-A

GASKET NOTE:
GASKET PROVIDED IF TOP OF FLOW CONTROL WALL MUST EXTEND TO CEILING



SECTION B-B

SIZE, SHAPE, AND LOCATION OF FLOW CONTROL OPENINGS BY ENVIRONMENT 21, LLC

GENERAL NOTES:
MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.

DESIGN LOADING: AASHTO HS20–44