

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

GENERAL NOTES:
MANHOLE DESIGN SPECIFICATIONS CONFORM TO LATEST ASTM C478 SPEC. FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS.

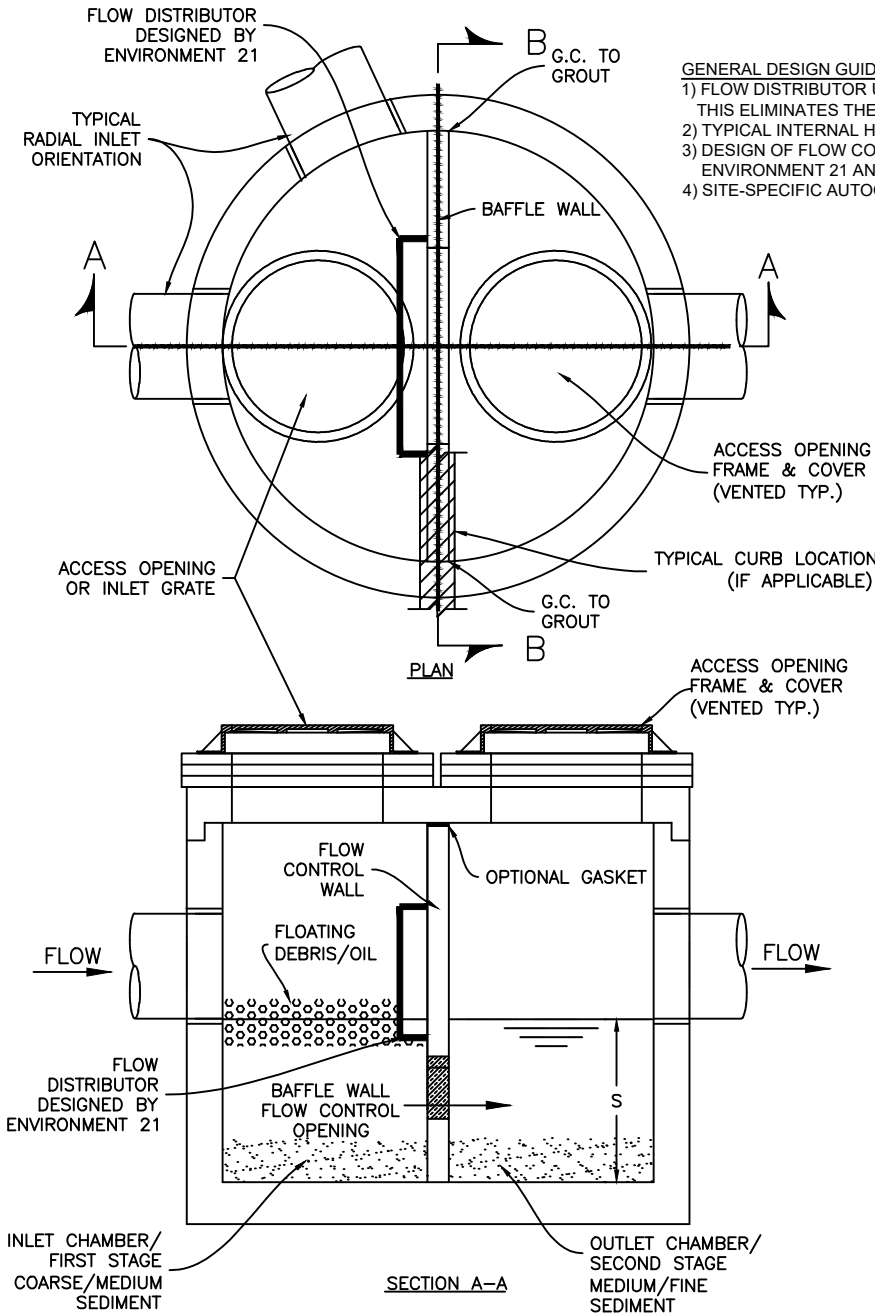
DESIGN LOADING: AASHTO HS-20

NOTES:

- 1) RAINFALL INTENSITY USED FOR TREATMENT FLOW = 0.80-1.0 IN/HR
- 2) LOCATION AND SIZE OF MANHOLE OPENINGS MAY BE ADJUSTED BY LICENSED MANUFACTURER.
- 3) G.C. TO GROUT INLET AND OUTLET PIPES.

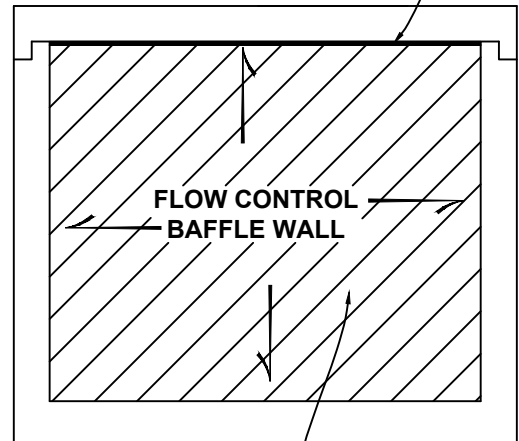
GENERAL DESIGN GUIDELINES FOR UNISTORM TREATMENT CHAMBER

- 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



GASKET NOTE:

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



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

PROPRIETARY INFORMATION: PATENTS PENDING - ALL RIGHTS TO ENVIRONMENT 21, LLC.

SHEA PRODUCT ID: UNISTORM	PREPARED FOR:	FILE NAME: ENV21Unistorm.dwg	
WEIGHT (LBS):	DRAWN BY: ARO	DATE: 06/01/18	

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