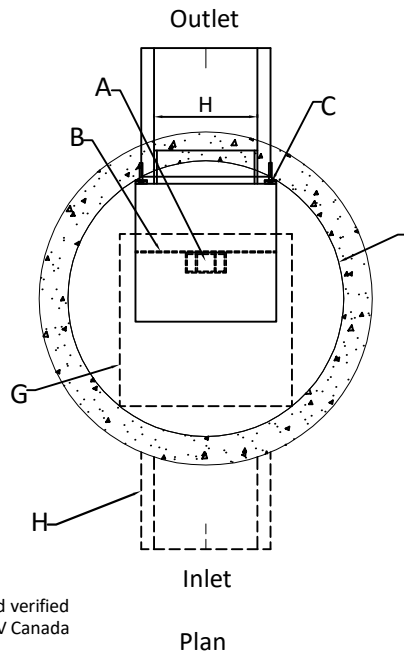


## Specifications

1. The separator must be designed based on the following criteria:

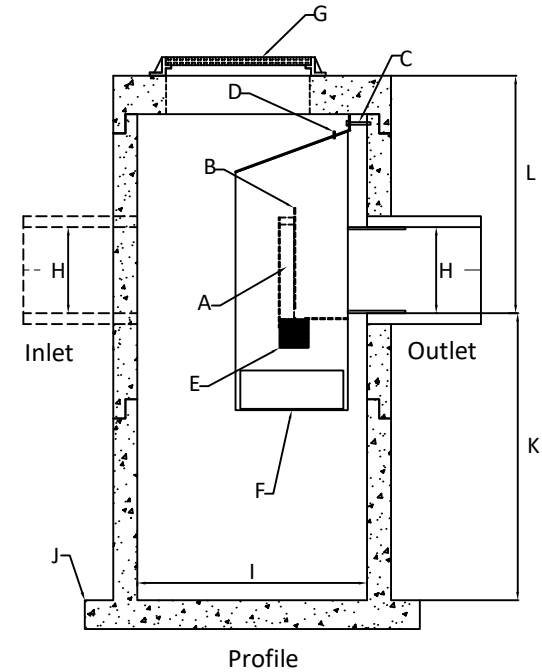
Flow Criteria	
Water Quality Flow cfs (L/s)	
Peak Design Flow cfs (L/s)	

TSS Removal Criteria	
Annual TSS Removal (%)	
NJDEP/ETV Canada TSS	
OK110 Sand	
F95 Sand	
Other	



### HydroDome Components

- A. Siphon
- B. Overflow Weir
- C. Wall Anchor
- D. Air Check Valve
- E. Coarse Foam Debris Screen
- F. Perforated Bottom
- G. Grate or Cover
- H. Inlet and Outlet Pipes
- I. Structure Diameter
- J. Base Extension
- K. Sump Depth
- L. Invert to Top of Structure



2. The separator must be independently tested and verified to the 2013 NJDEP separator protocol and 2014 ETV Canada Separator protocol

3. Vendor testing and/or field testing is not acceptable to determine an alternate equal due to the lack of repeatability.

## Notes:

1. Sump depths shown are typical. Additional depth can be added as required.
2. Single or multiple inlet pipes allowed.
3. Drops allowed.
4. Inlet Grate Shown. HydroDome can be designed with a closed cover if required.
5. Oil capacities given are spill capacities.
6. Sediment depths are maximum holding capacities and not recommended capacities for regular maintenance.
7. Capacities are rounded down to nearest 5 gal or ft<sup>3</sup> (5L or 0.1 m<sup>3</sup> for metric units)
8. Minimum rim to top of structure [L] required may vary for HydroDome. Please call Hydroworks for site-specific design questions.
9. Hydraulics vary with pipe size and model number. Please call Hydroworks for site-specific headloss calculations.

HydroDome by Hydroworks, LLC  
 U.S. Patent # 10,801,196  
 www.hydroworks.com  
 888-290-7900

### HydroDome Dimensions / Capacities \*

Model	Diameter ft (m) I	Sump Depth ft (m) K	Max. Pipe in (mm) H	Total Volume gal (L)	Oil Spill Volume gal (L)	Sediment Volume ft <sup>3</sup> (m <sup>3</sup> )
HD 3	3 (0.9)	4 (1.2)	18 (450)	210 (800)	30 (120)	15 (0.5)
HD 4	4 (1.2)	4.5 (1.4)	21 (525)	420 (1600)	70 (265)	30 (0.9)
HD 5	5 (1.5)	5.5 (1.7)	27 (675)	805 (3055)	125 (480)	60 (1.7)
HD 6	6 (1.8)	6.5 (2.0)	33 (825)	1375 (5200)	210 (800)	100 (2.9)
HD 7	7 (2.1)	7.5 (2.3)	39 (975)	2155 (8170)	320 (1225)	160 (4.6)
HD 8	8 (2.4)	8.5 (2.6)	42 (1050)	3195 (12095)	490 (1860)	235 (6.8)
HD 10	10 (3.0)	10.5 (3.2)	54 (1350)	6165 (23350)	955 (3615)	455 (13.0)
HD 12	12 (3.6)	12.5 (3.8)	66 (1650)	10575 (40030)	1640 (6220)	780 (22.2)

\* HD dimensions can be customized to provide custom oil or sediment volumes

## Hydroworks HydroDome

PROJECT:

LOCATION:

REVISION DATE: 01/24/2022

