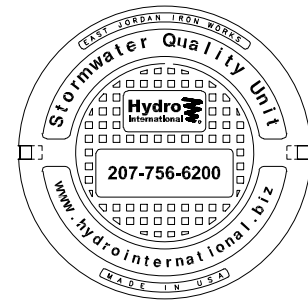
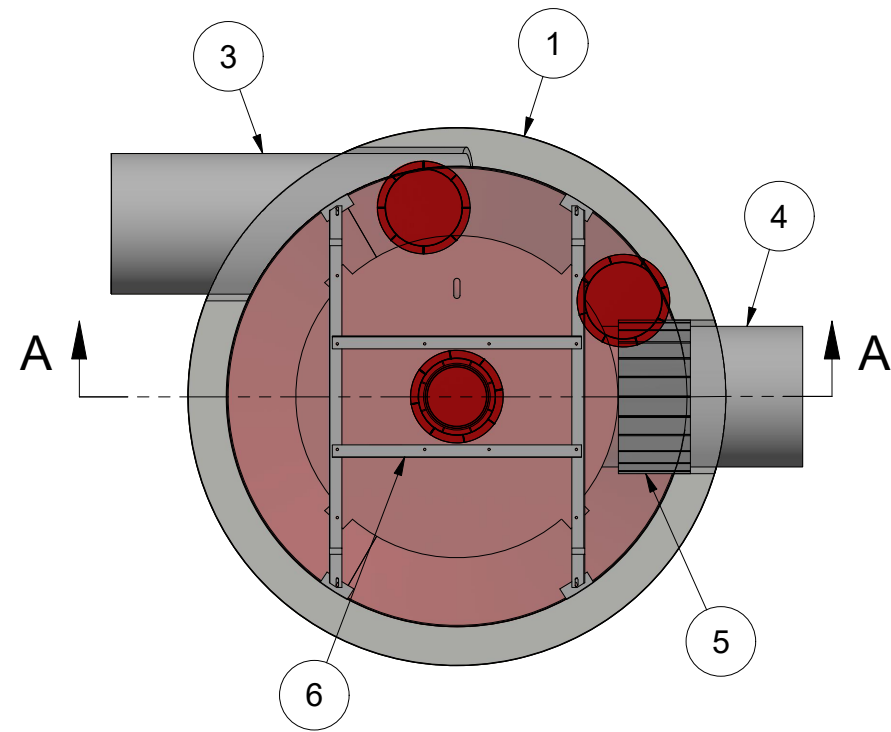
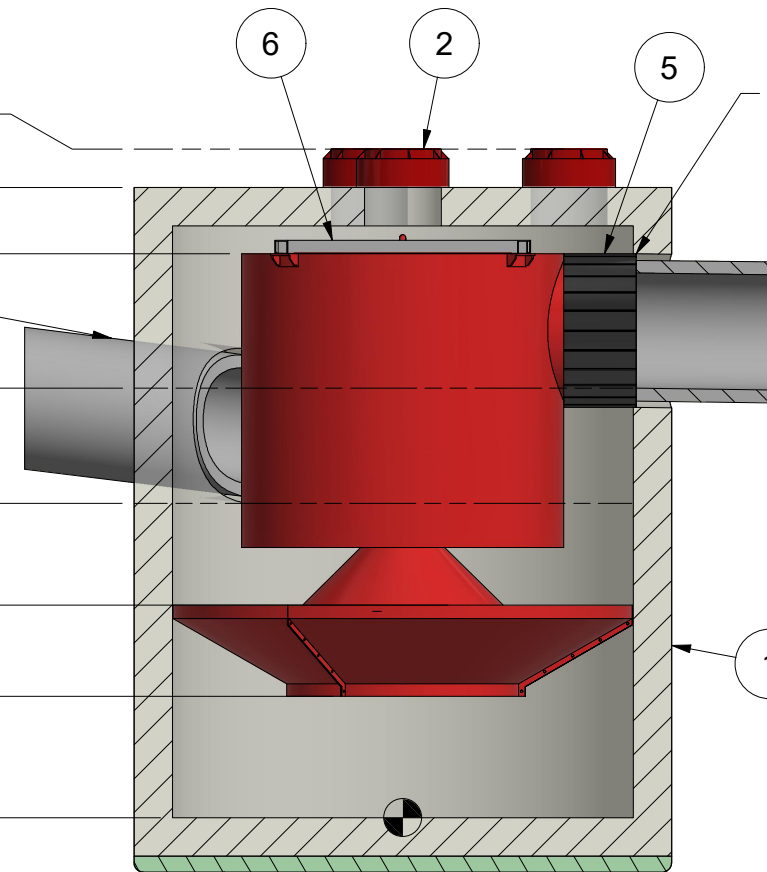


OUTLET STUB ID: 36" (900 mm)  
 OUTLET STUB OD: 42" (1050 mm)



**HYDRO FRAME AND COVER (INLCUDED)**  
 GRADE RINGS BY OTHERS  
 AS REQUIRED

RIM: VARIES  
 T.O.S.: 16.42 ft [5.004 m]  
 (MINIMUM)  
 LEDGER: 14.68 ft [4.475 m]  
 OUTLET: 11.18 ft [3.408 m]  
 (MINIMUM)  
 INLET: 8.18 ft [2.494 m]  
 SKIRT: 5.54 ft [1.688 m]  
 BOTTOM OF INTERNALS: 3.17 ft [.965 m]  
 SUMP: 0 ft [.000 m]



STONE BASE  
 PER PROJECT  
 SPECIFICATIONS

**SECTION A-A**

PIPE COUPLING/  
 REDUCER  
 REQUIRED BY  
 CONTRACTOR

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING DOWNSTREAM DEFENDER MANHOLE.



**IF IN DOUBT ASK**

DATE: 12/7/2020 SCALE: 1 / 50  
 DRAWN BY: ER CHECKED BY: MRJ APPROVED BY:

Title  
 12ft-DIAMETER  
 DOWNSTREAM DEFENDER

**GENERAL ARRANGEMENT**



WEIGHT: N/A MATERIAL:  
 STOCK NUMBER:  
 DRAWING NO.: DD GA-12  
 SHEET SIZE: B SHEET: 1 OF 1 Rev: A

NOTE: NOT FOR CONSTRUCTION.  
 CONTACT HYDRO FOR SITE  
 SPECIFIC DETAIL

**EQUIPMENT PERFORMANCE**

The stormwater treatment unit shall adhere to the hydraulic parameters given in the chart below and provide the removal efficiencies and storage capacities as follows:

1. The treatment system shall use an induced vortex to separate pollutants from stormwater runoff.
2. Peak Hydraulic Capacity: 38.0 cfs (1076 l/s)
3. Sediment Storage Capacity: 14.70cu. yd. (11.24 cu. m)
4. Continuous Oil Storage Capacity: 1770 gal. (6700 liters)
5. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reintraintment by a benching skirt.
6. For more product information including regulatory acceptances, please visit <https://hydro-int.com/en/products/downstream-defender>

**PARTS LIST**

ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	144	3700	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)
2	3	24	600	FRAME AND COVER (QTY 3)
3	1	36 (MAX)	900 (MAX)	INLET PIPE (BY OTHERS)
4	1	36 (MAX)	900 (MAX)	OUTLET PIPE (BY OTHERS)
5	1			PIPE COUPLING (BY OTHERS)
6	1			INTERNAL COMPONENTS (PRE-INTALLED)