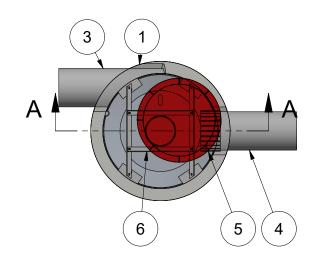
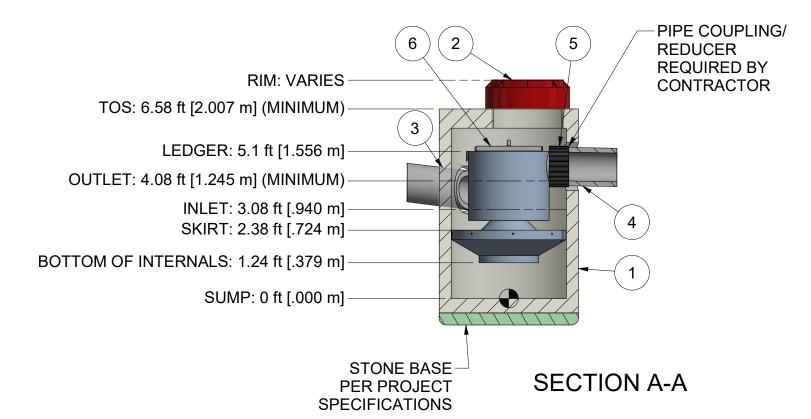
OUTLET STUB ID: 12" (300 mm) OUTLET STUB OD: 12.5" (318 mm)





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



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.

## **PROJECTION**

## IF IN DOUBT ASK

12/7/2020

SCALE: 1:1

DRAWN BY: ER

CHECKED BY: APPROVED BY

Α

4ft-DIAMETER

**GENERAL ARRANGEMENT** 

DOWNSTREAM DEFENDER

MRJ

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: 3.0 cfs (85 l/s)
- 3. Sediment Storage Capacity: 0.70 cu. yd. (0.53 cu. m)
- 4. Continuous Oil Storage Capacity: 70 gal. (265 liters)
- 5. Sediment shall be stored in a zone that is isolated from the main flow path and protected from reintrainment by a benching skirt.
- 6. For more product information including regulatory acceptances, please visit https://hvdro-int.com/en/products/downstream-defender

| PARTS LIST |     |           |           |                           | <b>I</b> II II                                      |        |  |
|------------|-----|-----------|-----------|---------------------------|---|--------|--|
| ITEM       | QTY | SIZE (in) | SIZE (mm) | DESCRIPTION               | Hydro International hydro-int.com HYDRO INTERNATION |        |  |
| 1          | 1   | 48        | 1200      | PRECAST MANHOLE (BY HYDRO |   |        |  |
|            |     |           |           | VIA PRECASTER)            |   |        |  |
| 2          | 1   | 30        | 750       | FRAME AND COVER           | WEIGHT: MATERIAL: N/A                               |        |  |
| 3          | 1   | 12 (MAX)  | 300 (MAX) | INLET PIPE (BY OTHERS)    |   |        |  |
| 4          | 1   | 12 (MAX)  | 300 (MAX) | OUTLET PIPE (BY OTHERS)   | STOCK NUMBER:                                       |        |  |
| 5          | 1   |           |           | PIPE COUPLING (BY OTHERS) | DRAWING NO.:  |        |  |
| 6          | 1   |           |           | INTERNAL COMPONENTS       | DD GA-4   |        |  |
|            |     |           |           | (PRE-INTALLED)            | B SHEET SIZE:                                       | 1 OF 1 |  |