**PLAN VIEW**

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

**PRODUCT SPECIFICATION:**

1. PEAK HYDRAULIC FLOW: 18.0 cfs (510 l/s)
2. MIN SEDIMENT STORAGE CAPACITY: 0.7 cu. yd. (0.5 cu. m.)
3. OIL STORAGE CAPACITY: 191 gal. (723 liters)
4. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 24 in. (600 mm)
5. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

**GENERAL NOTES:**

1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 24".
3. Multiple inlet pipes possible (refer to project plan).
4. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan).
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

**PARTS LIST**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>SIZE (in)</th>
<th>SIZE (mm)</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>48</td>
<td>1200</td>
<td>I.D. PRECAST MANHOLE</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>30</td>
<td>750</td>
<td>INTERNAL COMPONENTS (PRE-INSTALLED)</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>24 (MAX)</td>
<td>600 (MAX)</td>
<td>OUTLET PIPE (BY OTHERS)</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>24 (MAX)</td>
<td>600 (MAX)</td>
<td>INLET PIPE (BY OTHERS)</td>
</tr>
</tbody>
</table>

**HYDRO FRAME AND COVER (INCLUDED)**

GRADE RINGS BY OTHERS AS REQUIRED

SUMP ELEV.: .00 ft [.000 m]

PIPE ELEV.: 4.97 ft [1.515 m] (MINIMUM)

T.O.S ELEV.: 8.07 ft [2.460 m] (MINIMUM)

NOTE: ADDITIONAL HEIGHT MAY BE REQUIRED DEPENDING ON PIPE SIZE

PRESASSEMBLY REFERENCE: 3.47 ft [1.057 m]

BOTTOM OF INTERNALS: 2.25 ft [.685 m]

**SECTION A-A**

4-ft DIAMETER FIRST DEFENSE HIGH CAPACITY