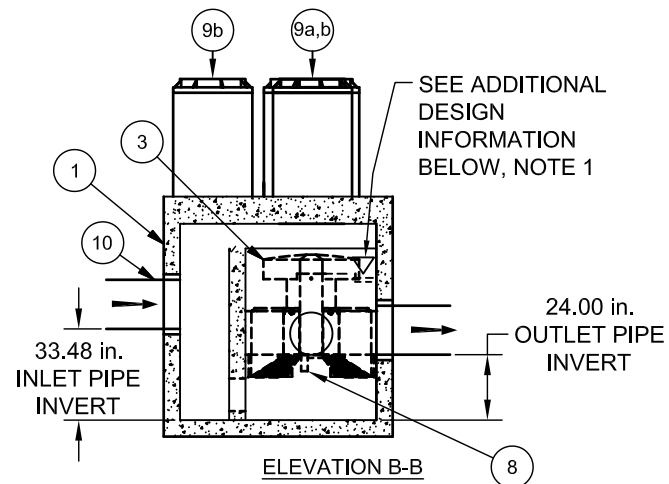
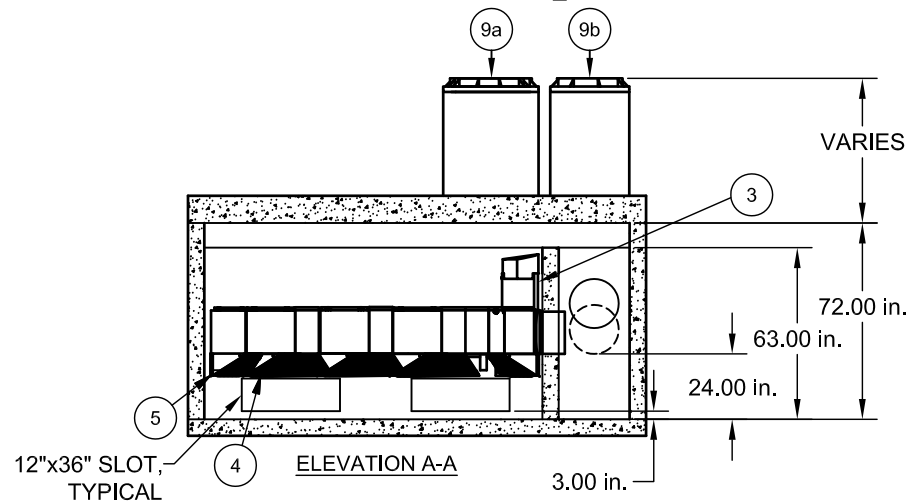
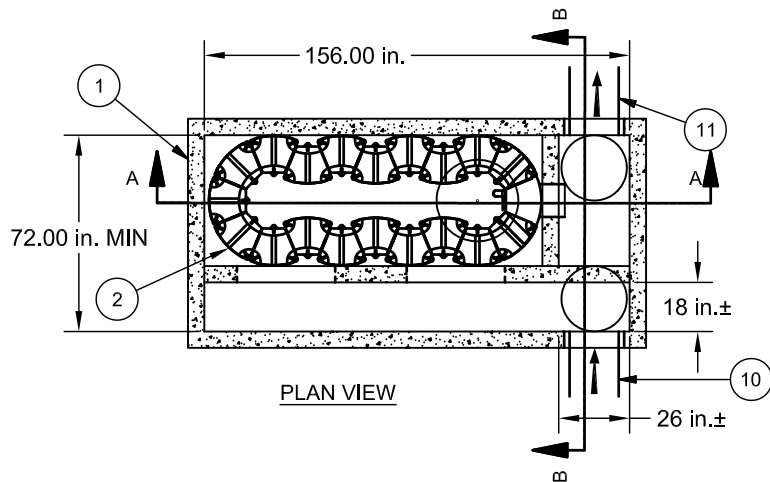


NOT FOR CONSTRUCTION, EXAMPLE ONLY,
DRAWING WILL BE MODIFIED TO SUIT
REQUIREMENTS OF SITE.



Notes

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.

REVISION HISTORY			
REV	BY	DATE	DESCRIPTION
A	JL	5/23/13	PARTS LIST
Date		3/19/13	Scale
			NTS
Drawn	Checked	Approved	
RC			

Title

6-FT x 13-FT VAULT
UP-FLO FILTER
19 MODULES (19 MAX)

1-ROW VAULT - OFFLINE



Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

Parts List			
ITEM	QTY	DESCRIPTION	SIZE
1	1	PRECAST VAULT (BY HYDRO VIA PRECASTER)	72 in x 156 in
2	19	FILTER MODULE	
3	1	OUTLET MODULE AND BYPASS HOOD	
4	3,3	DUAL SUPPORT BRACKET W/ ANGLED SCREEN	RIGHT, LEFT
5	7	SINGLE SUPPORT BRACKET W/ ANGLED SCREEN	
6	7	BACKER PLATE FOR SINGLE SUPPORT	
	1	OUTLET SUPPORT BRACKET	
7	4	TRIANGULAR MOUNTING BRACKET	
8	1	DRAIN DOWN FILTER	
9a, 9b	1, 2	FRAME AND COVERS	30 in, 24 in
10	1	INLET PIPE (BY OTHERS)	15 in
11	1	OUTLET PIPE (BY OTHERS)	15 in

CAPACITIES:

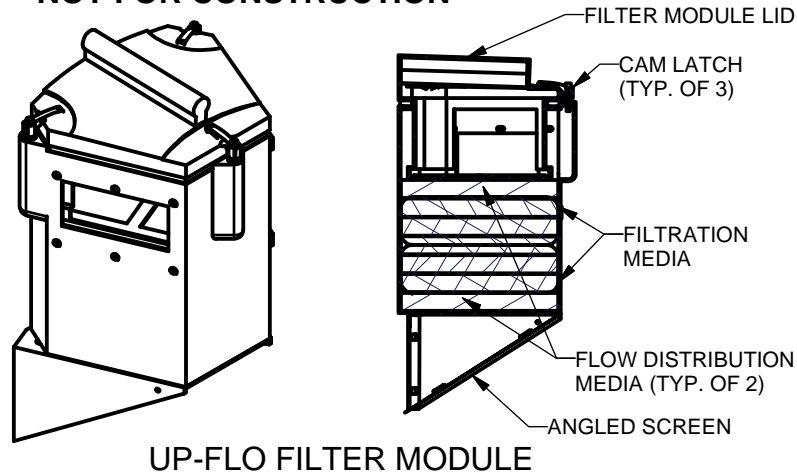
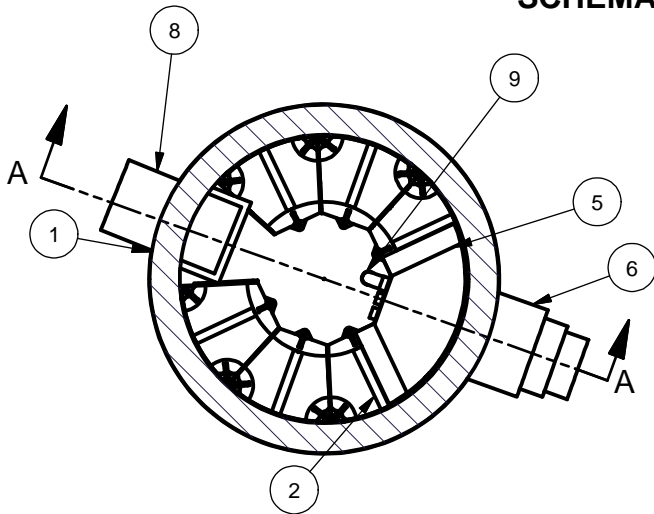
1. Minimum performance: 80% removal of Sil-Co-Sil 106 (d50 = 22 microns) at the peak treatment flow.
2. NJDEP peak treatment flow: 0.045 cfs/module * OR 0.3 acres of Imperviousness/module, whichever results in the greater number of modules.
3. Maximum number of modules: 19 **
4. Exact vault and pipe sizes may vary.

ADDITIONAL DESIGN INFORMATION:

1. * Normal operating W.S.E. is 2.46' above the outlet invert at the peak treatment flow of 0.045 cfs/module. For a given flow the head requirement can be reduced by adding additional filters.
2. ** Treatment flows that require more modules will require a larger vault design or different arrangement.
3. Media Type: Sand

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SCHEMATIC ONLY - NOT FOR CONSTRUCTION



UP-FLO FILTER MODULE

EQUIPMENT PERFORMANCE

The stormwater filtration system shall adhere to the parameters listed below:

- Minimum Performance Criteria: 80% removal of Sil-Co-Sil 106 at the peak treatment flow.
- Peak Treatment Flow: SEE NOTE 1
- Minimum Bypass Capacity: 1527 gpm (96.20 l/s) SEE NOTE 2
- Minimum Sediment Storage Capacity: 16.6 cu. ft. (0.47 cu. m.)
- Minimum Oil Storage Capacity: 50 gal. (189 liters)

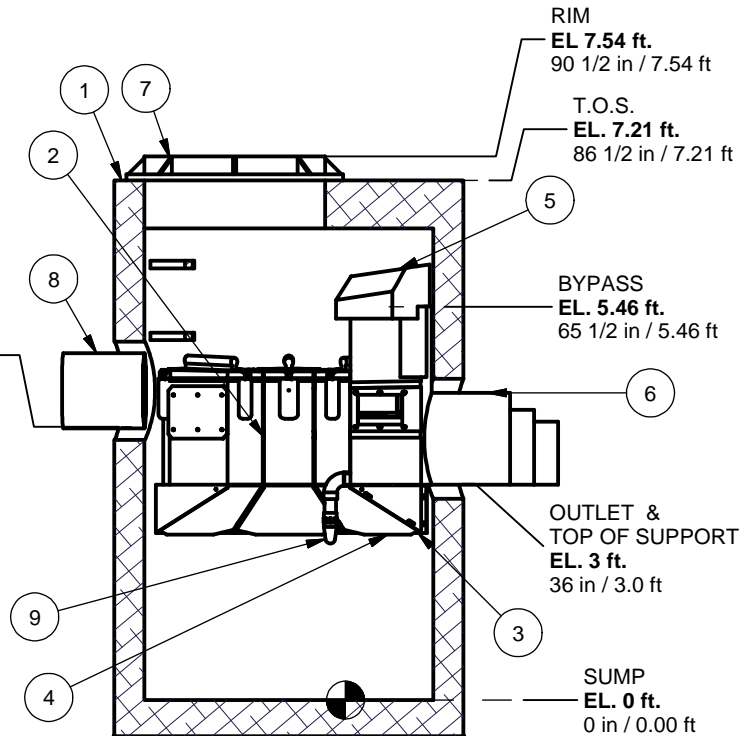
OUTLET PIPE STUB SIZE INFORMATION

- Outside Diameter: 10.5", 12.5" or 15.3" OD
- Concrete Penetration: Pipe Boot (by Hydro)
- Outlet Connection: Fernco-type coupling (BY OTHERS)

INLET: ORIENTATION & SIZE WILL BE SITE SPECIFIC (BY OTHERS)

INLET
EL 3.79 ft.
45 1/2 in / 3.79 ft

Parts List			
ITEM	QTY	SIZE	DESCRIPTION
1	1	48 in	CONCRETE MANHOLE
2	6		FILTER MODULE
3	1		SUPPORT
4	1		ANGLED SCREEN
5	1		SIPHONIC BYPASS AND FLOATABLES BAFFLE
6	1		OUTLET MODULE AND PIPE STUB
7	1	30 in	FRAME AND COVER
8	1	12 in	INLET PIPE
9	1		DRAINDOWN FILTER



SECTION A-A

Notes

- Peak Treatment Flow Rate is Media Specific
 CPZ = 25 gpm/module
 CPS = 20 gpm/module
 Sand = 23 gpm/module
 Perlite = 28 gpm/module
- Bypass Capacity will vary depending on TWL
 Minimum Bypass Capacity TWL = 5.84 ft.

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
	EPL	02/22/06	FIRST ISSUE
A	EPL	6/25/06	PRODUCT INFORMATION HATCHING
B	RC	12/7/07	FILTER MODULE
C	RC	1/14/08	STEPS & OFFSET MH COVER

Date	Scale	
1/14/2008	3/8"=1'-0"	
Drawn	Checked	Approved
RC		

Title
4-FT DIAMETER UP-FLO FILTER
GENERAL ARRANGEMENT



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