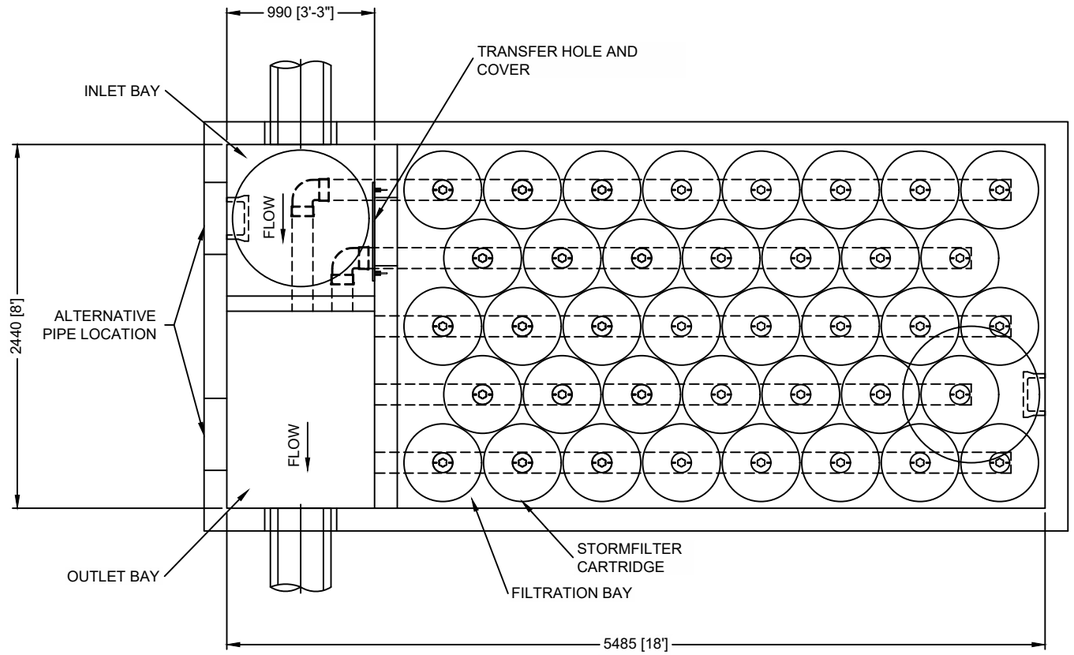
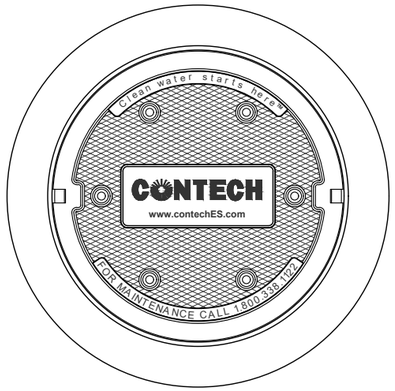


PLAN

STORMFILTER DESIGN NOTES

- THE 8' x 18' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE. PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD.
- THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR RIGHT INLET CONFIGURATION.
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.

CARTRIDGE HEIGHT	675mm (27")	450mm (18")	300mm (12")
RECOMMENDED HYDRAULIC DROP (H)	930mm (3.05')	700mm (2.3')	550mm (1.8')
HEIGHT OF WEIR (W)	915mm (3.00')	685mm (2.25')	535mm (1.75')
SPECIFIC FLOW RATE	1.13 (L/s)/m^2	1.13 (L/s)/m^2	1.13 (L/s)/m^2
CARTRIDGE FLOW RATE	1.19 L/s (18.79 gpm)	0.79 L/s (12.53 gpm)	0.54 L/s (8.35 gpm)



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

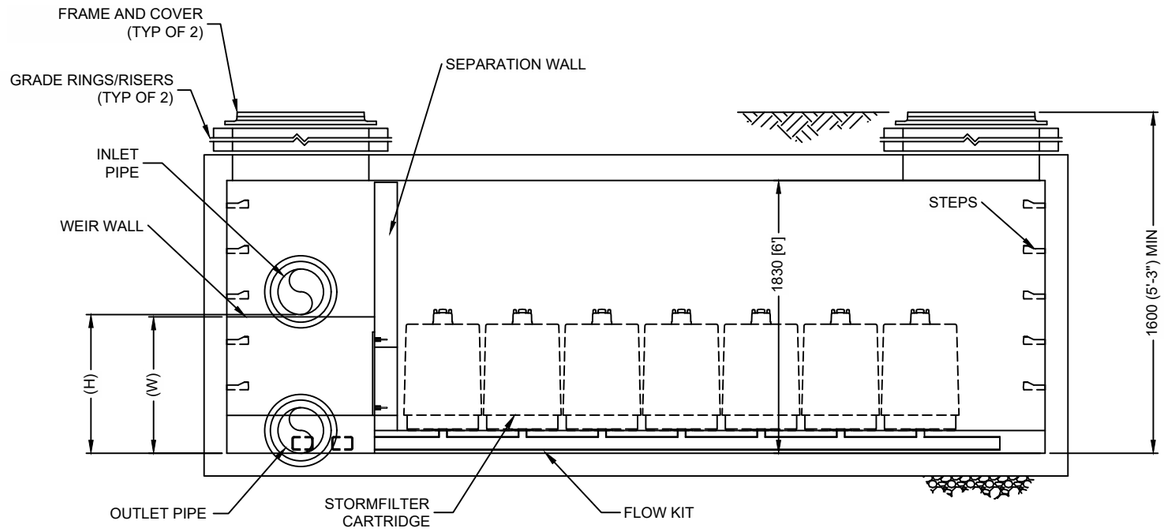
STRUCTURE ID	*
WATER QUALITY FLOW RATE (L/s)	*
PEAK FLOW RATE (L/s)	*
RETURN PERIOD OF PEAK FLOW (yrs)	*
CARTRIDGE HEIGHT (27", 18", LOW DROP(LD))	*
NUMBER OF CARTRIDGES REQUIRED	*
CARTRIDGE FLOW RATE	*
MEDIA TYPE (PERLITE, ZPG, PSORB)	*

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE	*	*	*
OUTLET PIPE	*	*	*

UPSTREAM RIM ELEVATION	*
DOWNSTREAM RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:



ELEVATION

PERFORMANCE SPECIFICATION

THE FILTER CARTRIDGES ARE FILLED WITH FILTER MEDIA AND TREAT WATER PASSIVELY. WATER RISES INTO THE SYSTEM, ACTIVATES THE SIPHON, AND PERCOLATES TOWARD THE CENTER OF THE FILTER MEDIA. THE CARTRIDGE ARE SELF-CLEANING. THE DEPTH OF THE FILTER MEDIA IS 177.8MM (7 INCHES). THE FILTER MEDIA MUST REMAIN IN CONTACT WITH THE WATER FOR AT LEAST 38 SECONDS. THE SPECIFIC FLOW RATE MUST NOT EXCEED 1.36L/S PER M^2. THIS RATE IS CALCULATED BY DIVIDING THE FLOW RATE (L/S) BY THE CONTACT SURFACE AREA OF THE FILTER MEDIA (M^2). THE VOLUMETRIC FLOW RATE OF THE CARTRIDGES IS 13.37L/S PER M^3.

GENERAL NOTES

1. UNLESS OTHERWISE SPECIFIED, SOLENO SUPPLIES ALL MATERIALS.
2. TO OBTAIN SPECIFIC FABRICATION DRAWINGS DETAILING THE EXACT DIMENSIONS AND WEIGHT OF EACH COMPONENT, CONTACT YOUR SOLENO REPRESENTATIVE.
3. THE FINAL DIMENSIONS AND WEIGHT OF THE SECTIONS THAT MAKE UP THE TREATMENT UNIT DEPEND ON THE CONCRETE MANUFACTURER. THE DIMENSIONS PROVIDED ARE MINIMUM VALUES.
4. THE TREATMENT UNIT MUST COMPLY WITH THE SPECIFICATIONS OUTLINED IN THIS DOCUMENT. IT IS THE RESPONSABILITY OF THE PROJECT'S CONSULTING ENGINEER TO ENSURE THAT THE EQUIPMENT GEOMETRY MEETS THE PROJECT REQUIREMENTS.
5. THE TREATMENT UNIT IS DESIGNED TO WITHSTAND THE STANDARD CL-625 LOAD(CAN/CSA-S6) IF IT IS BACKFILLED WITH AT LEAST 300 MM OF COVER. BUOYANCY RESISTANCE IS ENSURED IF THE WATER TABLE IS AT OR BELOW THE ELEVATION OF THE OUTLET PIPE INVERT. IT IS THE RESPONSABILITY OF THE PROJECT'S CONSULTING ENGINEER TO SPECIFY THE ACTUAL GROUNDWATER ELEVATION.
6. ALL STORMFILTER CONCRETE STRUCTURES MUST COMPLY WITH BNQ 2622-420 STANDARDS, AND MUST DISPLAY THE SOLENO AND CONTECH LOGOS.

INSTALLATION NOTES

A. THE UNIT INSTALLATION MUST COMPLY WITH THE REQUIREMENTS OF BNQ 1809-300.
B. THE CONTRACTOR MUST PROVIDE EQUIPMENT WITH THE LIFTING CAPACITY AND REACH REQUIRED TO PLACE AND ASSEMBLE THE STORMFILTER
C. DURING ASSEMBLY, THE CONTRACTOR MUST APPLY BUTYL JOINTS BETWEEN EACH CONCRETE SECTION.
D. THE CONTRACTOR MUST SUPPLY AND INSTALL THE INLET AND OUTLET PIPES.
E. THE CONTRACTOR MUST TAKE THE NECESSARY MEASURES TO PROTECT THE CARTRIDGES FROM SEDIMENT GENERATED DURING CONSTRUCTION.
F. THE CONTRACTOR MUST TAKE THE NECESSARY MEASURES TO ENSURE THE UNIT IS WATERTIGHT.

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,524,778; 5,707,527; 5,865,157; 6,027,639; 6,445,244; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

SOLENO

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THE STORMWATER MANAGEMENT STORMFILTER 8' x 18' PEAK DIVERSION STORMFILTER STANDARD DETAIL