INFILTRATION SYSTEM #1

SCALE: 1" = 10'

NOTES:

1. MANHOLE FRAME AND GRATE SHALL BE DESIGNED TO WITHSTAND H-20 LOADING.
2. ACCESS LADDER WITH PRECAST DROP FRONT STEEL REINFORCED COPOLYMER RUNGS AT 12" O.C.
3. LeBARON STANDARD FRAME AND COVER SET IN MORTAR. CAT NO LK 110 SET ON TOP OF BRICK MASONRY AND SEALED WITH MORTAR. COVER TO BE SUPPLIED WITH 3" LETTERING TO READ "DRAIN".

ACCEPTABLE FILL MATERIALS
STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. (SEE TYPICAL STORMWATER TRENCH SECTION ON SHEET C-10)	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	A-1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
EMBEDMENT STONE SURROUNDING TO AN ELEVATION 12" ABOVE & 6" BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
FOUNDATION BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY
SUBSURFACE SOIL FILTER	SEE CROSS SECTION	N/A	N/A	

STORMTECH ACCEPTABLE FILL MATERIALS

NOMINAL CHAMBER SPECIFICATIONS
SIZE (W x H x INSTALLED LENGTH) 51.0" x 30.0" x 85.4"
CHAMBER STORAGE 45.9 CUBIC FEET
MINIMUM INSTALLED STORAGE 74.9 CUBIC FEET
WEIGHT 75 LBS.

STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH "1"

STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH "8"

PART #	CHAMBER	PIPE SIZE	A	B	C	D
SC740EPE12B	SC 740	12 in (300 mm)	14.70 in (373 mm)	7.70 in (196 mm)	N/A	1.20 in (30 mm)
~~SC740EPE18B~~	~~SC 740~~	~~24 in (600 mm)~~	~~18.50 in (470 mm)~~	~~9.45 in (240 mm)~~	~~N/A~~	~~0.10 in (3 mm)~~

NOTE: ALL DIMENSIONS ARE NOMINAL

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

★ FOR THE SC740EPE24B THE 24" STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.25". BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SETS LEVEL.

SC-740 TECHNICAL DETAILS

NOT TO SCALE

MANIFOLDS ARE DESIGNED TO BE COUPLED TO STORMTECH PREFABRICATED END CAPS. WHEN USING STANDARD END CAPS, CORRUGATED PIPE UP TO 18 INCHES CAN BE INSERTED DIRECTLY INTO THE END CAP. FOR 24" INLET PIPES, A CORRUGATED TO SMOOTH PIPE ADAPTER IS REQUIRED.

MANIFOLDS TO BE 24" DIA.

ADS MANIFOLDS

NOT TO SCALE

NOTES:
1. ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
2. THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL 1-888-892-2694 OR VISIT WWW.STORMTECH.COM TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.

SECTION A-A

NOT TO SCALE

SECTION B-B

NOT TO SCALE

STORMTECH INSPECTION PORT DETAIL

NOT TO SCALE

Revision	By	Date	Changes
5	SMA	2/12/15	REVISED OWNER/APPLICANT
2	SMA	11/18/14	REVISED PER PEER REVIEW COMMENTS
1	SMA	10/14/14	REVISED PER TOWN COMMENTS

PROJECT NUMBER: 33229.02 | ACAD FILE: 33229-DETAILS.DWG | SCALE: NTS | DATE: AUGUST 4, 2014

Drawing Name:
UNDERGROUND DETENTION SYSTEM DETAILS

Project Name and Location:
PAMELA ROAD EXTENSION
PAMELA ROAD, PORTLAND, MAINE 04101

Prepared For:
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SHEET 12 OF 12

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/15/17

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