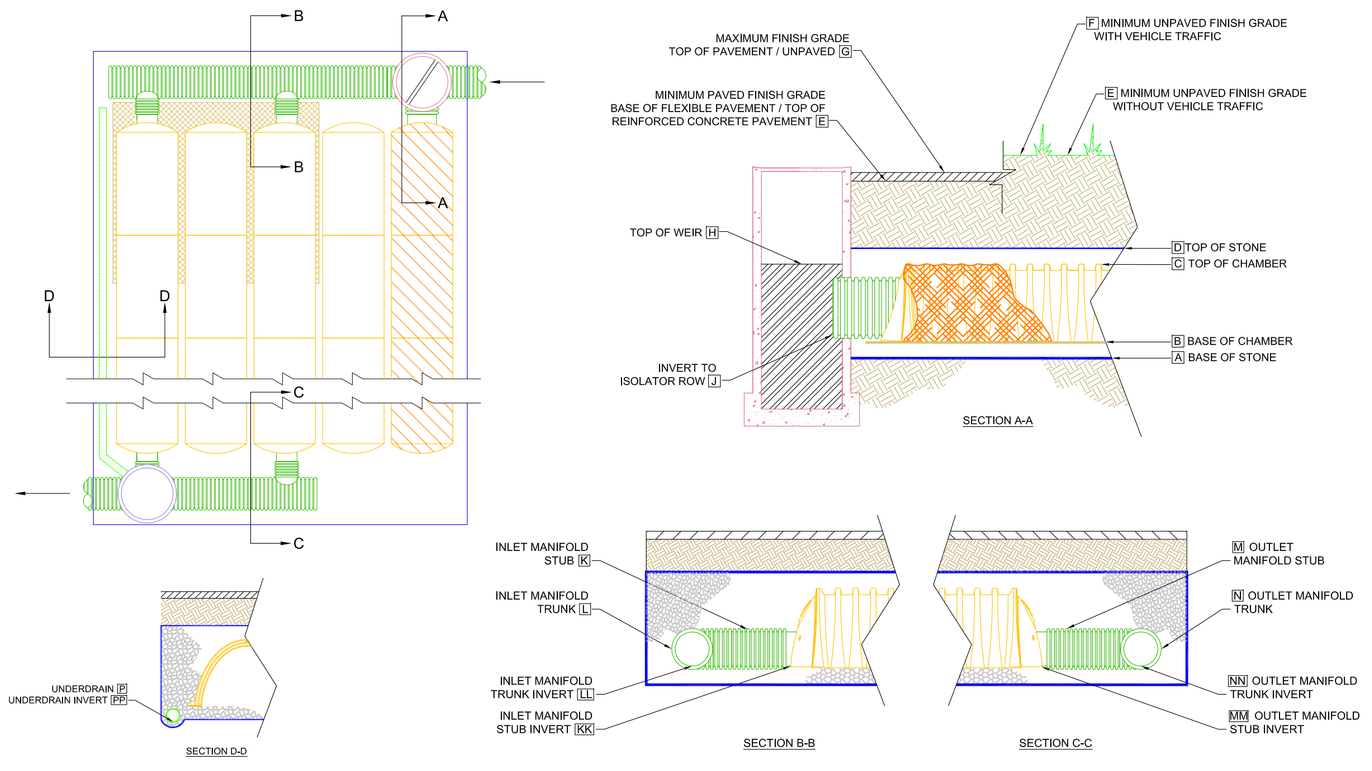
## 1 PLAN VIEW LAYOUT

| | A | B | C | D | E | F | G | H | J | K | KK | L | LL | M | MM | N | NN | P | PP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BED 1/ONLY | | | | | | | | TBD | | | | | | | | | | | |
| BED 2 | | | | | | | | TBD | | | | | | | | | | | |
| BED 3 | | | | | | | | TBD | | | | | | | | | | | |
| BED 4 | | | | | | | | TBD | | | | | | | | | | | |
| BED 5 | | | | | | | | TBD | | | | | | | | | | | |

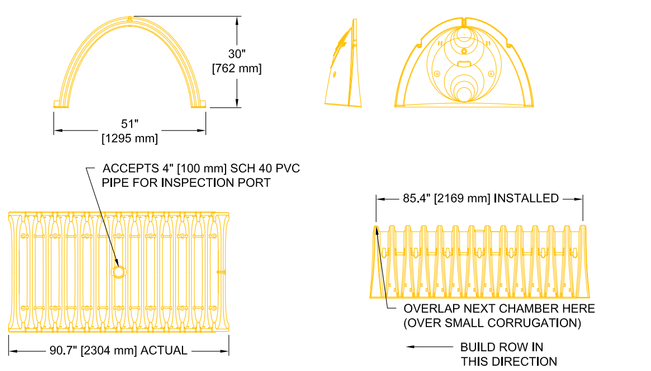
## 2 SC-740 ELEVATIONS




## 3 SC-740 NOTES

1. ALL DESIGN SPECIFICATIONS FOR STORMTECH SC-740 CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL
2. THE INSTALLATION OF STORMTECH SC-740 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 INSTALLTION. CALL **1-888-892-2694** OR VISIT **WWW.STORMTECH.COM** TO RECIEVE A COPY OF THE LATEST STORMTECH INSTALLTION INSTRUCTIONS
4. CHAMBERS SHALL MEET THE DESIGN REQUIREMENTS AND LOAD FACTORS SPECIFIED IN SECTION 12.12 OF THE LATEST EDITION OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

## 4 SC-740 TECHNICAL SPEC.




NOMINAL CHAMBER SPECIFICATIONS

| | |
|---|---|
| SIZE (W x H x INSTALLED LENGTH) | 51.0" x 30.0" x 85.4" [1295 mm x 762 mm x 2169 mm] |
| CHAMBER STORAGE | 45.9 CUBIC FEET [1.30 m³] |
| MINIMUM INSTALLED STORAGE | 74.9 CUBIC FEET [2.12 m³] |
| WEIGHT | 75 lbs. [33.6 kg] |

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

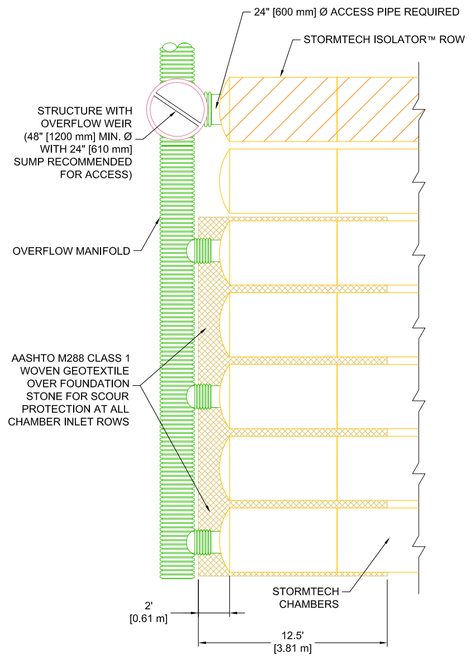
| PART# | STUB | A | B | C |
|---|---|---|---|---|
| SC740EPE06T | 6" [150 mm] | 10.90" [277 mm] | 18.50" [470 mm] | N/A |
| SC740EPE06B | 6" [150 mm] | 10.90" [277 mm] | N/A | 0.50" [13 mm] |
| SC740EPE08T | 8" [200 mm] | 12.20" [310 mm] | 16.50" [419 mm] | N/A |
| SC740EPE08B | 8" [200 mm] | 12.20" [310 mm] | N/A | 0.60" [15 mm] |
| SC740EPE10T | 10" [250 mm] | 13.40" [340 mm] | 14.50" [368 mm] | N/A |
| SC740EPE10B | 10" [250 mm] | 13.40" [340 mm] | N/A | 0.70" [18 mm] |
| SC740EPE12T | 12" [300 mm] | 14.70" [373 mm] | 12.50" [318 mm] | N/A |
| SC740EPE12B | 12" [300 mm] | 14.70" [373 mm] | N/A | 1.20" [30 mm] |
| SC740EPE15T | 15" [375 mm] | 18.40" [467 mm] | 9.00" [229 mm] | N/A |
| SC740EPE15B | 15" [375 mm] | 18.40" [467 mm] | N/A | 1.30" [33 mm] |
| SC740EPE18T | 18" [450 mm] | 19.70" [500 mm] | 5.00" [127 mm] | N/A |
| SC740EPE18B | 18" [450 mm] | 19.70" [500 mm] | N/A | 1.60" [41 mm] |
| *SC740EPE24B | 24" [600 mm] | 18.50" [470 mm] | N/A | 0.10" [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" [600 mm] STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" [44 mm]. BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

## 5 SC-740 MANIFOLD DETAIL




## 6 STORMTECH ACCEPTABLE FILL MATERIALS

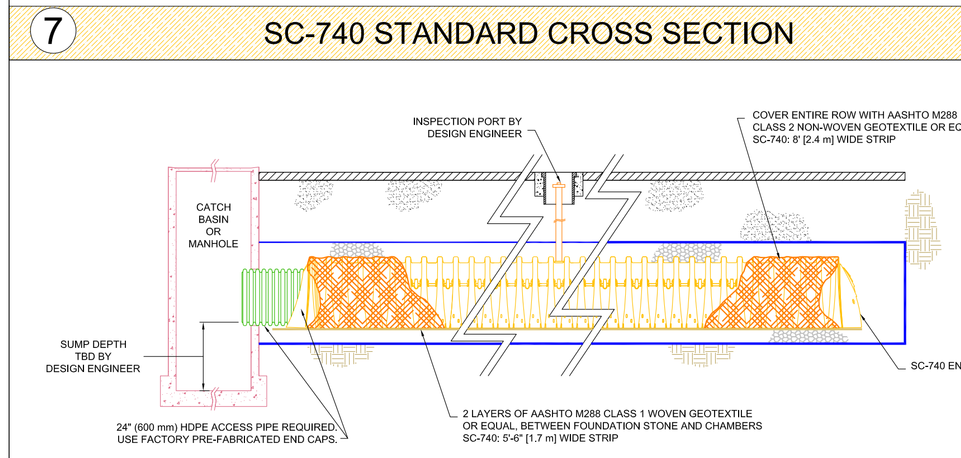
**ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS**

| | MATERIAL LOCATION | DESCRIPTION | AASHTO M43 DESIGNATION[1] | COMPACTION/DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (B* LAYER) TO 18" [457 mm] ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTION AFTER 12" [305 mm] OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" [152 mm] LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs [53 kN]. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs [89 kN]. |
| B | EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 + 2 INCH [19 + 51 mm] | 3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE. NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 + 2 INCH [19 + 51 mm] | 3, 35, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY*. |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" [229 mm] (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.

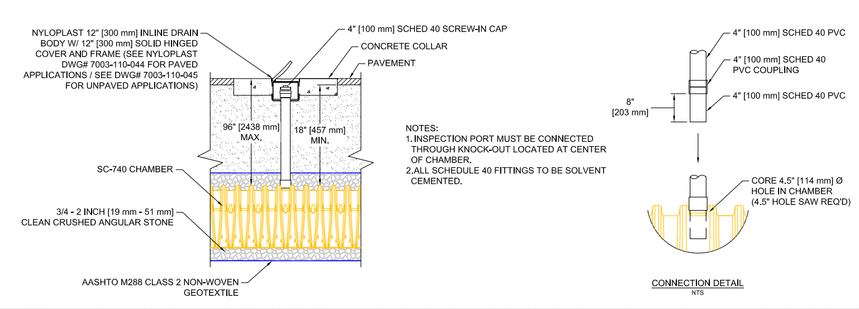
## 7 SC-740 STANDARD CROSS SECTION



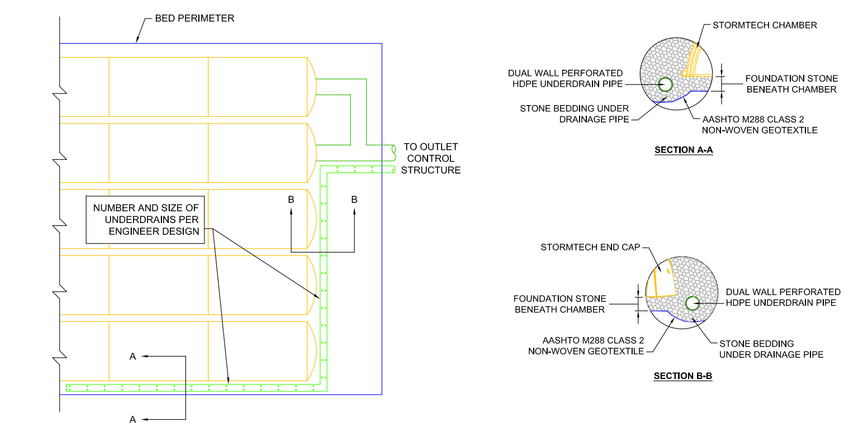

## 8 SC-740 ISOLATOR ROW™ DETAIL



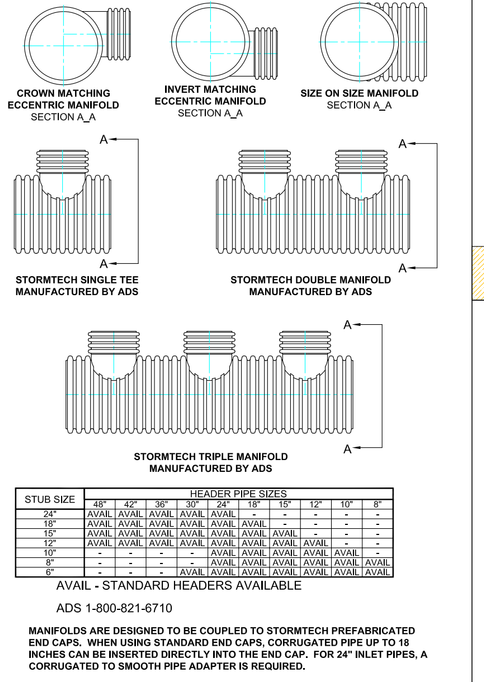

## 9 SC-740 INSPECTION PORT DETAIL




## 10 SC-740 UNDERDRAIN DETAIL




## 11 MANIFOLDS




| STUB SIZE | HEADER PIPE SIZES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 48" | 42" | 36" | 30" | 24" | 18" | 15" | 12" | 10" | 8" |
| 24" | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | - | - | - | - | - |
| 18" | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | - | - | - | - |
| 15" | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | - | - | - |
| 12" | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | - | - |
| 10" | - | - | - | - | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | - |
| 8" | - | - | - | - | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL |
| 6" | - | - | - | - | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL | AVAIL |

AVAIL - STANDARD HEADERS AVAILABLE

ADS 1-800-821-6710

**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.**

StormTech®
Detention • Retention • Recharge
Subsurface Stormwater Management℠

| DESCRIPTION | DATE | DRN | CHK |
|---|---|---|---|
| | | | |

DATE: | PROJECT #:
DRAWN BY: | SCALE: NTS
CHECKED BY: | PAGE: OF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WETHERSFIELD, CT 06109
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FAX: 866-328-8401
WWW.STORMTECH.COM



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