

DEEP OBSERVATION HOLE LOG:

GENERAL SOIL CONDITIONS FOR THE AREA PERFORMED AT 106 RIVER ST, NEWTON, MA BY SPRUHAN ENGINEERING P.C. SOIL EVALUATOR: EDMOND SPRUHAN (#14235)

DATED: 08/12/21 HOLE NUMBER: 1

GENERAL SITE CONDITIONS: GRASS & TREES.

PERCOLATION TEST: 2 MIN/IN DEPTH: 3'±

HOLE LOG #1 table with columns: DEPTH, ELEVATION, HORIZON, TEXTURE, COLOR, MOTTLING, OTHER. Rows show soil layers from 0" to 84" depth.

DEEP OBSERVATION HOLE LOG:

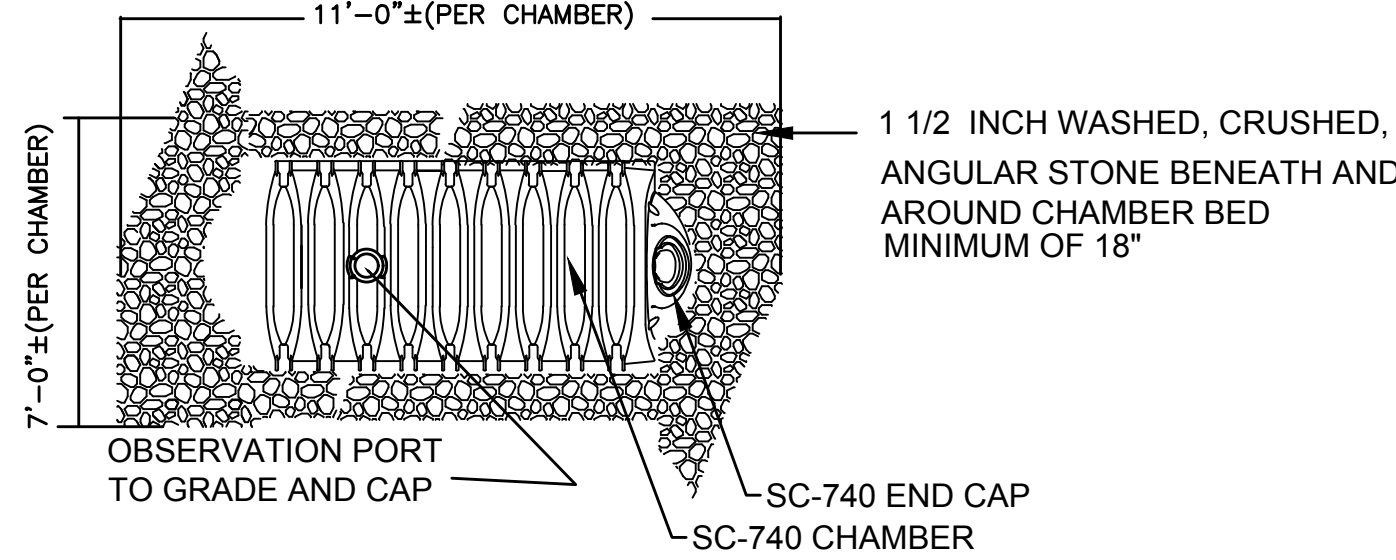
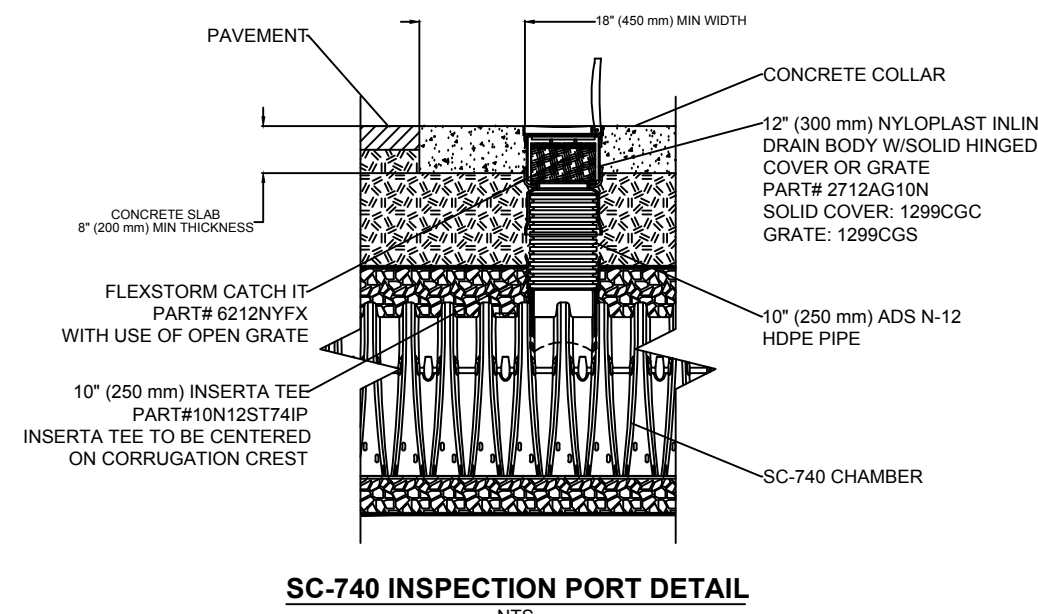
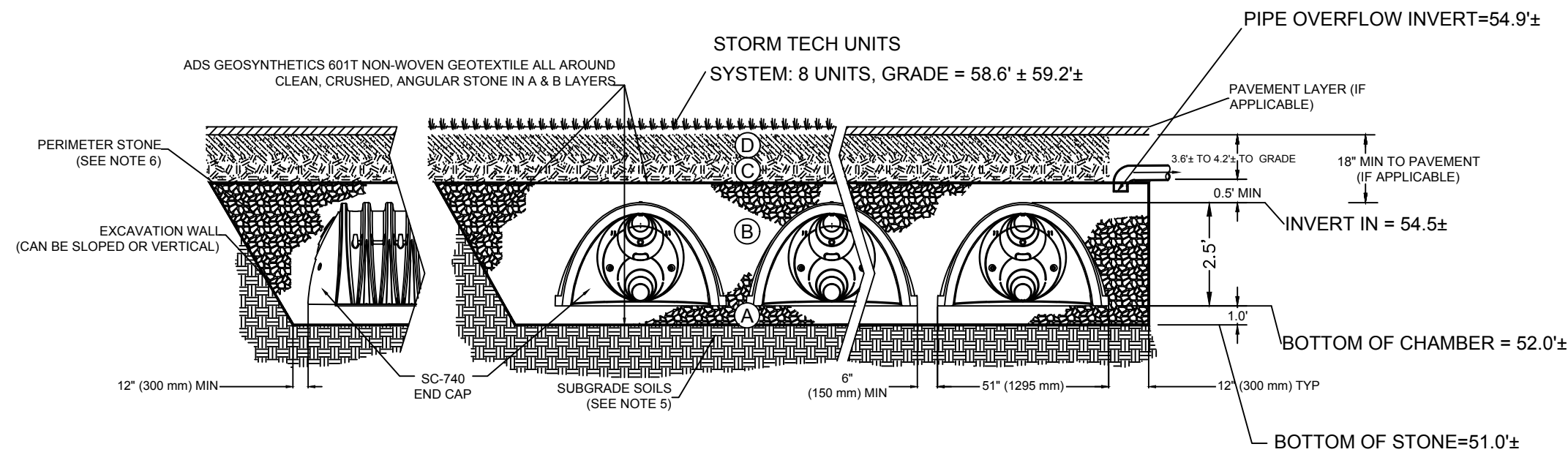
GENERAL SOIL CONDITIONS FOR THE AREA PERFORMED AT 106 RIVER ST, NEWTON, MA BY SPRUHAN ENGINEERING P.C. SOIL EVALUATOR: EDMOND SPRUHAN (#14235)

DATED: 08/12/21 HOLE NUMBER: 2

GENERAL SITE CONDITIONS: GRASS & TREES.

PERCOLATION TEST: 2 MIN/IN DEPTH: 3'±

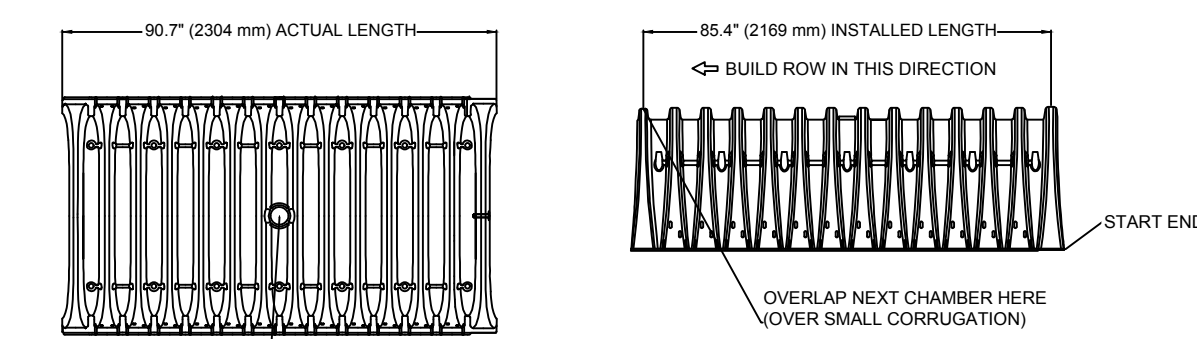
HOLE LOG #2 table with columns: DEPTH, ELEVATION, HORIZON, TEXTURE, COLOR, MOTTLING, OTHER. Rows show soil layers from 0" to 84" depth.



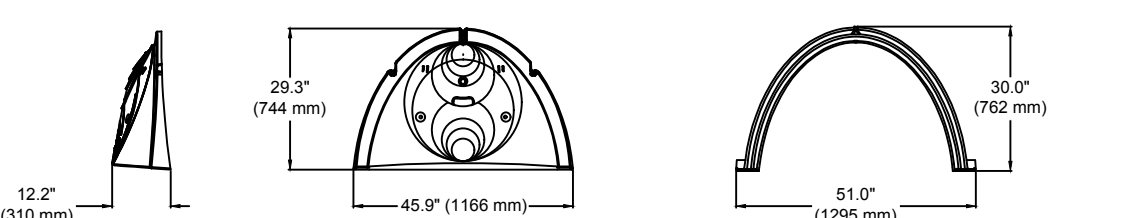
NOTES:

- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418... 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787... 3. ACCEPTABLE FILL MATERIALS TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS...

SC-740 TECHNICAL SPECIFICATION



ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT. FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER CREST CORRUGATION.



NOMINAL CHAMBER SPECIFICATIONS table with columns: SIZE (W X H X INSTALLED LENGTH), CHAMBER STORAGE, MINIMUM INSTALLED STORAGE, WEIGHT.

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

Table with columns: PART #, STUB, A, B, C. Lists various chamber parts and their dimensions.

ALL STUBS EXCEPT FOR THE SC740PE24B 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 SC740PE24B 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.

NOTE: ALL DIMENSIONS ARE NOMINAL

STORMTECH GENERAL NOTES

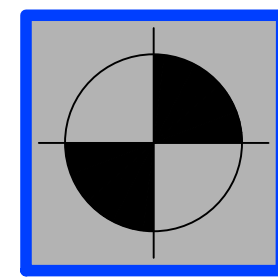
- 1. STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS... 2. STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN... 3. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.

DRAINAGE AREA SUMMARY

EXISTING ROOF = 3,144.48 S.F. EXISTING PAVED PARKING = 7,702.74 S.F. EXISTING LANDSCAPE AREA = 4,954.78 S.F. PROPOSED ROOF = 6,907.26 S.F. PROPOSED PERMEABLE PAVERS DRIVEWAY = 4,519.84 S.F. PROPOSED PAVED WALKWAY = 302.07 S.F. PROPOSED COVERED PORCH = 217.45 S.F. PROPOSED LANDING/STEPS = 175.39 S.F. PROPOSED RET. WALL/CURB = 103.48 S.F. PROPOSED LANDSCAPE AREA = 3,576.51 S.F. TOTAL EXISTING IMPERVIOUS AREA = 10,847.22 S.F. TOTAL PROPOSED IMPERVIOUS AREA = 7,705.65 S.F. TOTAL DECREASE IN IMPERVIOUS AREA = 3,141.57 S.F.

NOTES

- 1. ELEVATIONS REFER TO CITY OF NEWTON DATUM. 2. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION... 3. MASSACHUSETTS STATE LAW REQUIRES UTILITY NOTIFICATION AT LEAST THREE BUSINESS DAYS PRIOR TO CONSTRUCTION... 4. ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS, LATEST EDITION...



PETER NOLAN & ASSOCIATES, LLC

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SPRUHAN ENGINEERING, P.C.

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106 RIVER STREET NEWTON MASSACHUSETTS

DRAINAGE PLAN REVISION BLOCK

Table with columns: BY, DESCRIPTION, DATE. Shows a revision on 10/26/22.

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Table with columns: DATE, DRAWN BY, CHECKED BY, APPROVED BY. Shows dates and initials for 7/8/2022.

DETAILS

