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TYPICAL R-TANK HD SECTION NOT TO SCALE

20" MIN. UNDER PAVED AREAS

-WOVEN GEOTEXTILE, M200 BY ACF

OR ENGINEER-APPROVED EQUAL

-BIAXIAL GEOGRID, STF-P12 BY SYNTEEN

OR ENGINEER-APPROVED EQUAL

-- WOVEN GEOTEXTILE, M200 BY ACF

-18" SAND FILTER LAYER, MATERIAL

OR ENGINEER-APPROVED EQUAL

─6 OZ. NON-WOVEN GEOTEXTILE

-30 MIL PVC LINER

-16" UNDERDRAIN LAYER, MEETING MEDOT 703.22 SPEC, MINIMUM 4" BACKFILL ABOVE AND BELOW

OR ENGINEER-APPROVED EQUAL

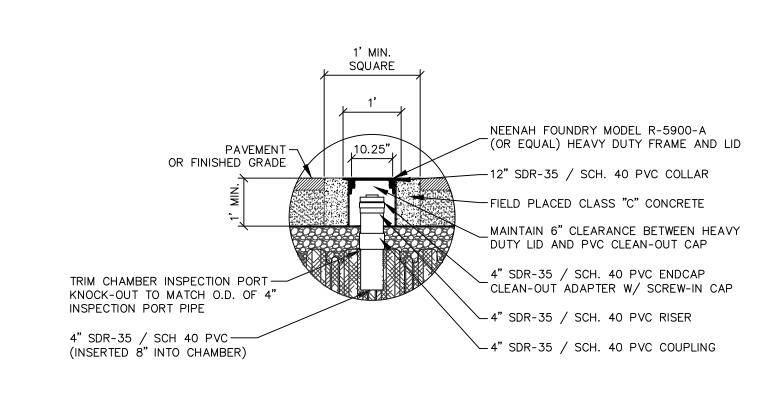
MEETING MEDOT 703.01 SPEC

-STRUCTURAL GEOGRID UNDER PAVED AREAS

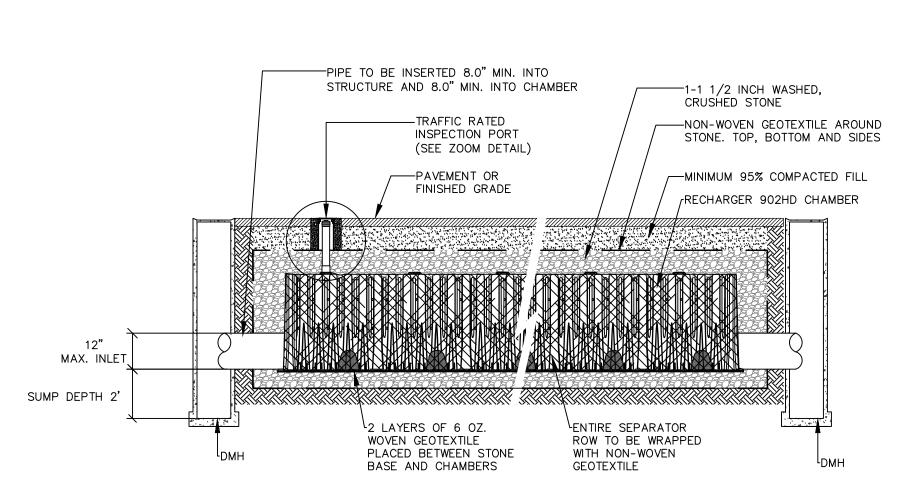
NON-WOVEN GEOTEXTILE UNDER LANDSCAPING

EXTENDING 3' BEYOND SIDES OF R-TANKS,

SUBJECT TO TRAFFIC LOADS

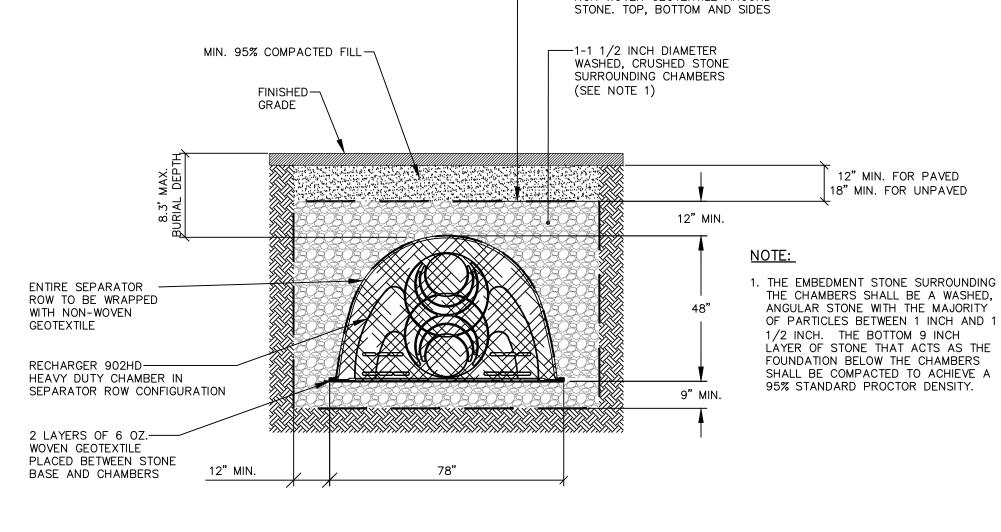


ISOLATOR ROW INSPECTION PORT



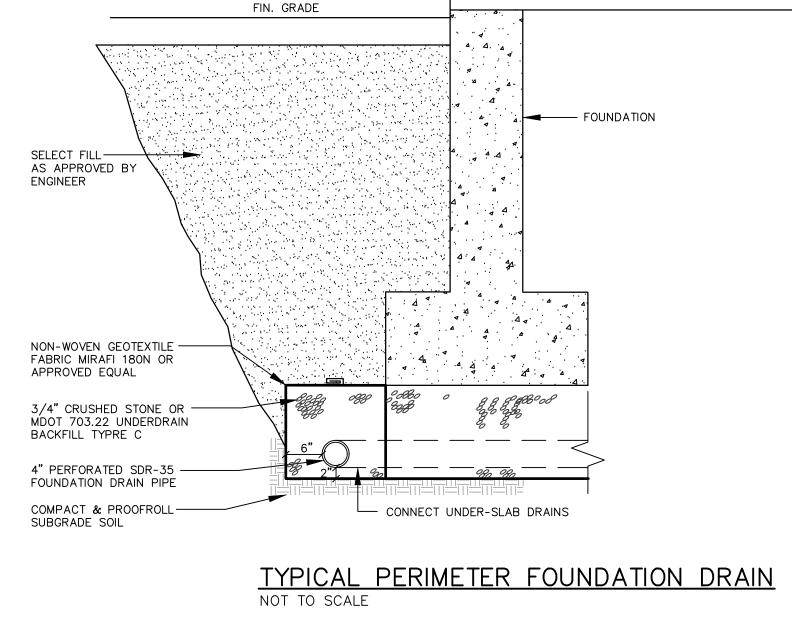
TYPICAL ISOLATOR ROW CROSS SECTION

FIN. GRADE



-----NON-WOVEN GEOTEXTILE AROUND

TYPICAL ISOLATOR ROW SECTION



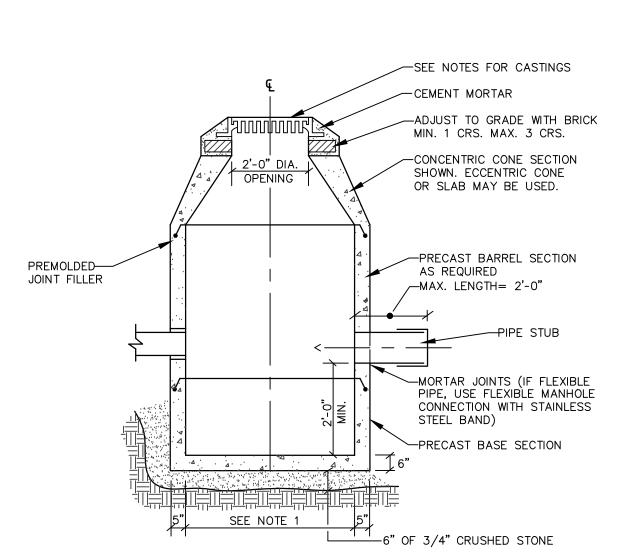
SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR SLAB, WATERPROOFING/VAPOR BARRIER, AND INSULATION REQUIREMENTS

12"-¾" COMPACTED CRUSHED STONE

NON-WOVEN GEOTEXTILE FABRIC MIRAFI 180N OR APPROVED EQUAL

COMPACT & PROOFROLL SUBGRADE SOIL

TYPICAL UNDER SLAB DRAIN



NOTES:

1. 4'-0" I.D. TYPICAL. SOME STRUCTURES MAY REQUIRE LARGER I.D. PROVIDE SHOP DRAWINGS.

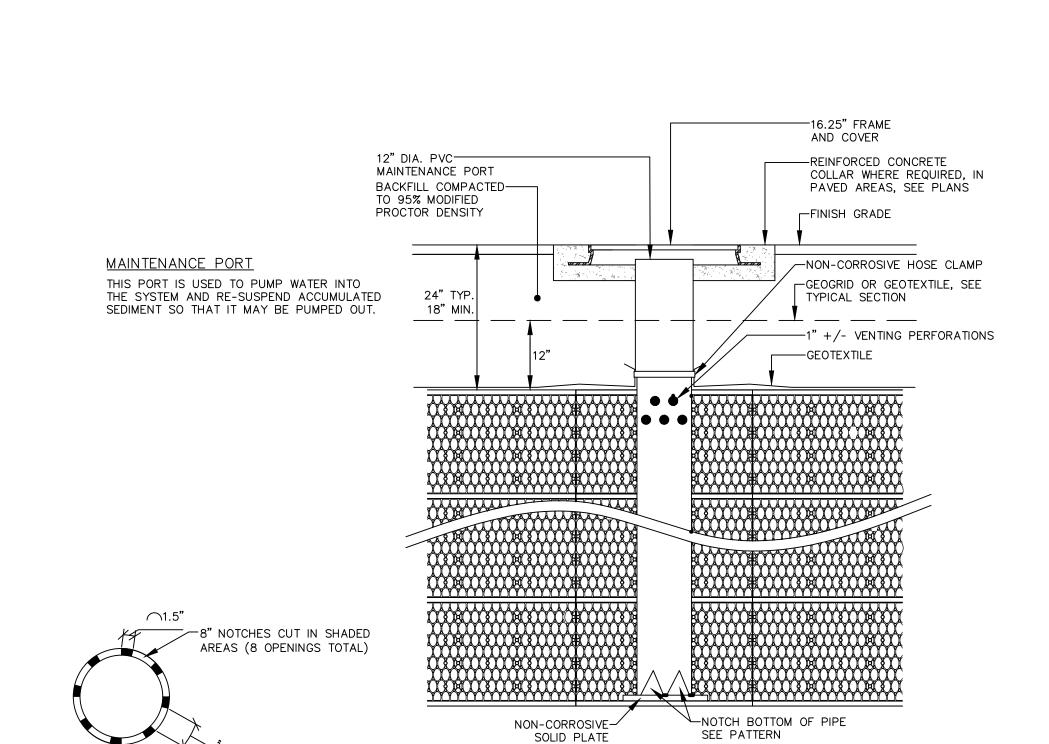
2. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.

3. PIPE SIZES AND INVERTS AS NOTED ON PLANS.

4. CATCH BASIN FRAME AND GRATE TO BE NEENAH FOUNDRY R-2554, OR APPROVED EQUAL.

TYPICAL CATCH BASIN

NOT TO SCALE



MDOT AGGREGATE SAND (MDOT #703.01). THIS

CONTENT. THIS 18 INCH LAYER OF SAND

STANDARD PROCTOR DENSITY.

AGGREGATE SAND SHALL BE MIXED WITH LOAM TO

ACHIEVE A MATERIAL WITH BETWEEN 8% AND 10% PASSING THE #200 SIEVE. THE LOAM USED IN THIS MIXTURE SHALL HAVE LESS THAN 2% CLAY

FILTRATION MEDIA SHALL BE PLACED TO ACHIEVE A

LEVEL OF COMPACTION BETWEEN 92% AND 95%

2. FIRST 12" COVER MUST BE FREE DRAINING BACKFILL:

1-1 1/2" WASHED CRUSHED STONE. ADDITIONAL FILL

MAY BE STRUCTURAL FILL: STONE OR SOIL (USCS

CLASS SM, SP, SW, GM, GP OR GW) WITH MAX

CLAY CONTENT<10%, MAX 25% PASSING NO. 200

SIEVE, AND MAX PLASTICITY INDEX OF 4. A MIN.

BACKFILL EQUIPMENT AND THE TOP OF THE R-TANK™ SYSTEM AT ALL TIMES. TOTAL HEIGHT

OF TOP BACKFILL SHOULD NOT EXCEED 7'. CONTACT

ACF ENVIRONMENTAL IF MORE THAN 7' OR LESS

THAN 20" OF TOP BACKFILL IS REQUIRED (FROM

TOP OF TANK TO TOP OF PAVEMENT).

 SIDE BACKFILL: 24" MIN. OF FREE DRAINING BACKFILL: STONE <1.5". MUST BE FREE FROM</li>

COMPACT SIDE BACKFILL WITH POWERED

MECHANICAL COMPACTOR IN 12" LIFTS.

PIPE NOTCHING

LUMPS, DEBRIS AND OTHER SHARP OBJECTS.

4. FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK MODULE SHEET.

SPREAD EVENLY TO PREVENT R-TANKHD MOVEMENT.

12" COVER MUST BE MAINTAINED BETWEEN

1 1/2" WASHED-

1" MINIMUM COVER

CRÚSHED STONE.

ABOVE R-TANKS

SIDES OF R-TANK

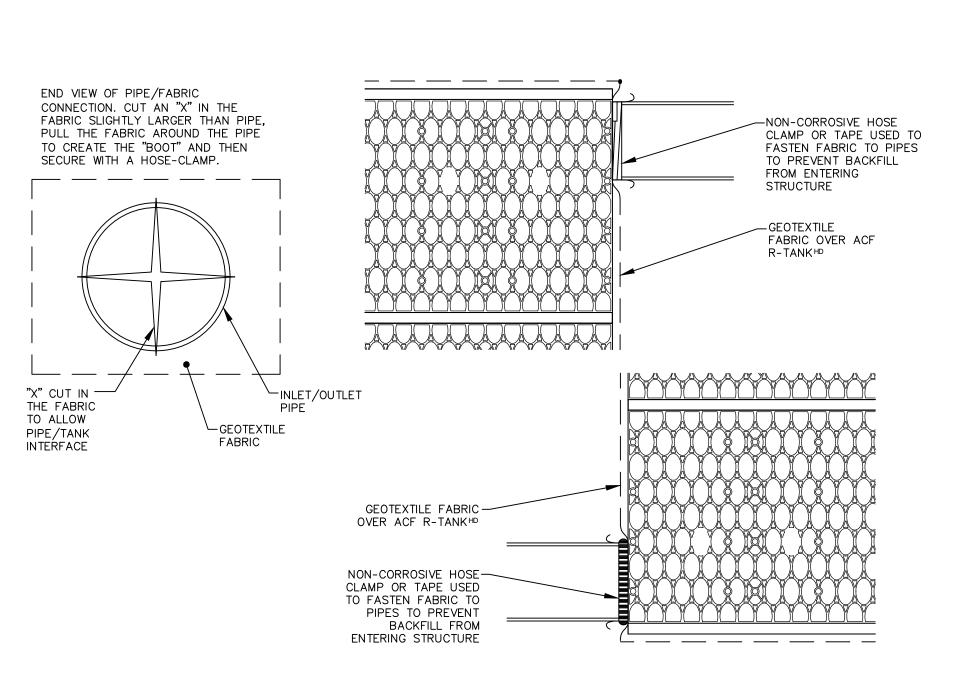
FIELD (SEE NOTE 3

(SEE NOTE 2)

R-TANKHD TYPICAL MAINTENANCE PORT

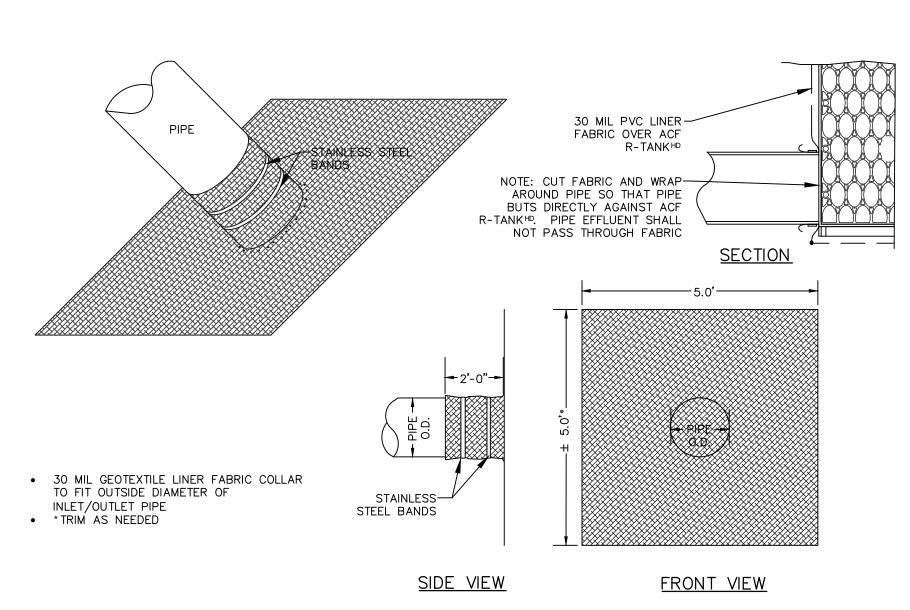
PLASTIC, SLATE

OR EQUIVALENT



NOT TO SCALE

R-TANK TYPICAL TANK INLET/OUTLET DETAIL
NOT TO SCALE



GEOTEXTILE PIPE BOOT FOR R-TANKHD

NOT TO SCALE



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3 Baldwin Green Common, Suite 202, Woburn, MA 01801

630 Dundee Road, Suite 340, Northbrook IL 60062

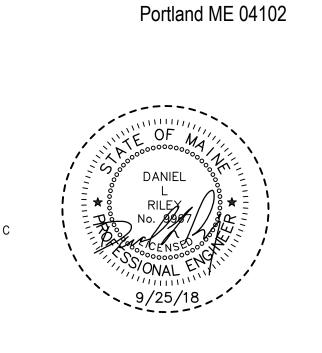
COST ESTIMATOR

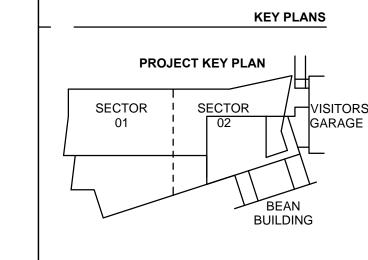
Mitchell Planning

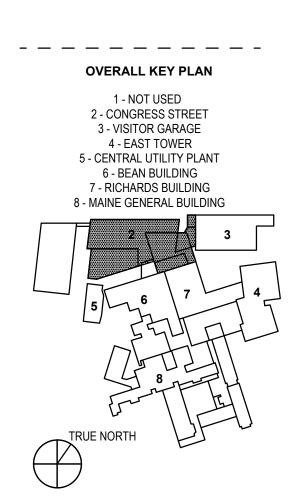
D.G. Jones International

MEDICAL EQUIPMENT PLANNING

22 Bramhall Street







CITY SUBMISSION SEPTEMBER 25, 2018

CITY SUBMISSION		9/25/201
ISSUE		DATE
Number	1	52189.00
awn		MAL/MA
ked		DL
oved		DL
֡	ISSUE Number n cked	ISSUE Number 1:

DETAILS
STORMWATER SYSTEM
CONGRESS STREET
EXPANSION

C30-04

SHEET NUMBER

TITLE

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