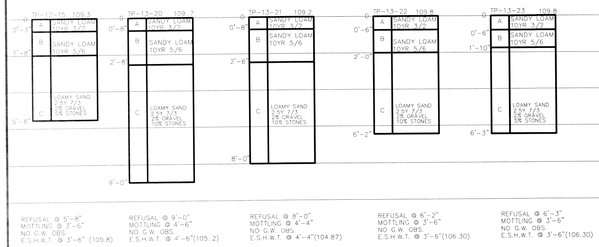
TEST PIT DATA:

DATE OF TESTING: 12/4/12 1/3/13
TEST BY: STAMSKI AND McNARY, INC.
CERT. SOIL EVAL.: BENJAMIN EWING 2005
WITNESSED BY: EVAN CARLONI



PERC. TEST DATA:

DATE OF TESTING: 12/4/12
TEST BY: STAMSKI AND McNARY, INC.
CERT. SOIL EVAL.: BILL HALL, 2012
WITNESSED BY: EVAN CARLONI

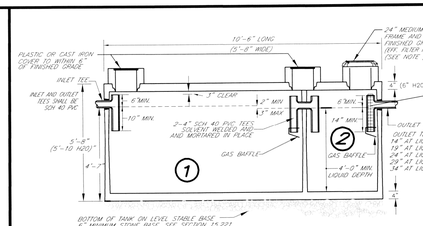
PT 12-H
DEPTH OF TEST: 42"
RATE: 13 MPI

PT 12-G
DEPTH OF TEST: 44"
RATE: 16 MPI

DATE OF TESTING: 1/3/13
TEST BY: STAMSKI AND McNARY, INC.
CERT. SOIL EVAL.: BENJAMIN EWING, 2005
WITNESSED BY: EVAN CARLONI

PT 13-K
DEPTH OF TEST: 44"
RATE: 13 MPI

PT 13-J
DEPTH OF TEST: 42"
RATE: 3 MPI



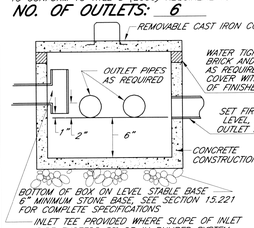
1500 GALLON DUAL COMPARTMENT SEPTIC TANK DETAIL
N.T.S.

TANK SHALL CONFORM TO TITLE 5(2006) REQUIREMENTS. AS MANUFACTUIED BY SHEA CONCRETE OR APPROVED EQUAL

D.BOX DETAIL:

N.T.S.

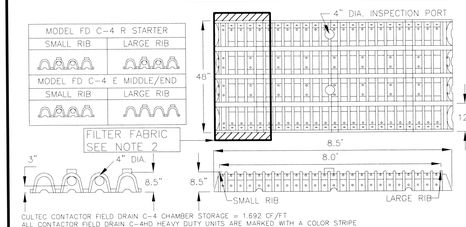
TO CONFORM TO TITLE 5 (2006) REQUIREMENTS
NO. OF OUTLETS: 6



FILE: D_BOX.DWG

SOIL ABSORPTION SYSTEM:

CULTEC CONTACTOR FIELD DRAIN C-4



CULTEC CONTACTOR FIELD DRAIN C-4 CHAMBER STORAGE = 1.692 CF./FT.
ALL CONTACTOR FIELD DRAIN C-4HD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
1. CULTEC CONTRACTOR FIELD DRAIN C-4 TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
2. A 2' LENGTH OF FILTER FABRIC SHALL BE PLACED ON THE SOIL AT THE CHAMBER INLET FOR A SPLASH PAD.

LOCUS PLAN:

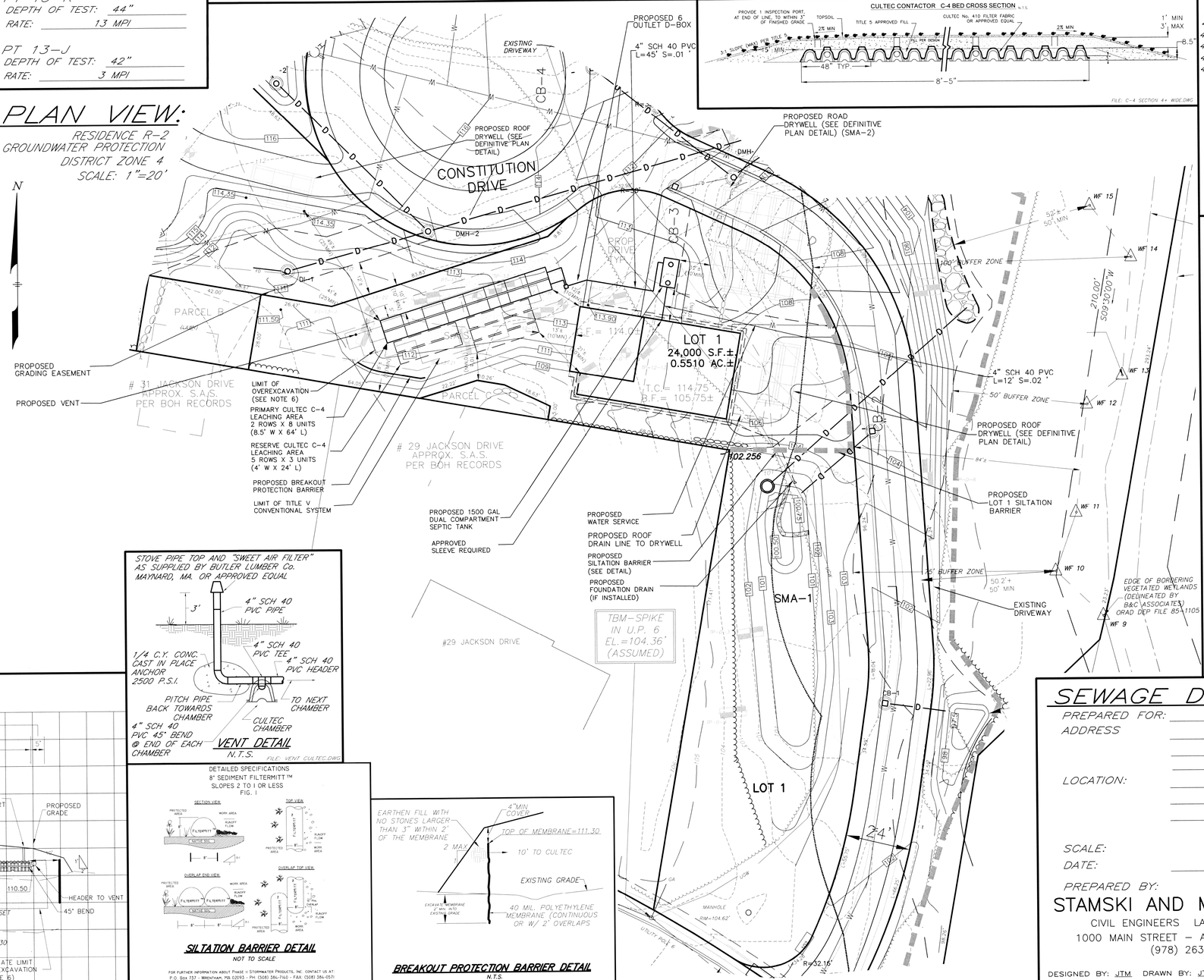
N.T.S.

NOTES:

1. THIS PLAN IS FOR THE DESIGN AND CONSTRUCTION OF A SEWAGE DISPOSAL FACILITY ONLY.
2. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO TITLE 5 AND THE ACTON BOARD OF HEALTH REGULATIONS.
3. IF ALTERATIONS (REMOVAL OF VEGETATION, GRADING, EXCAVATIONS, ETC.) ARE TO BE MADE WITHIN 100 FT OF WETLAND AREAS (PONDS, BROOKS, SWAMPS, ETC.) A REQUEST FOR DETERMINATION OF APPLICABILITY OF THE WETLANDS PROTECTION ACT (c131 s40A) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. THE FILING OF A NOTICE OF INTENT MAY BE REQUIRED AND LOCAL BYLAWS MAY APPLY.
4. ACCEPTABLE MATERIAL SPECIFICATIONS FOR DISTRIBUTION LINES: PVC–SCHEDULE 40 (ASTM D 1785 & D 2665), SDR 35 (ASTM D 3034). ABS–SCHEDULE 40 (ASTM F 628). HDPE–SHALL MEET OR EXCEED ASTM F 810 FOR SMOOTH WALL POLYETHYLENE PIPE FOR USE IN DRAINAGE AND WASTE DISPOSAL FIELDS. SCHEDULE 40 PVC SHALL BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
5. UNLESS OTHERWISE SHOWN, THERE ARE NO KNOWN WELLS WITHIN 150' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.
6. ALL TOP, SUBSOIL, FILL, BOULDERS, AND OTHER MATERIALS UNDER AND WITHIN 5' OF THE PROPOSED LEACHING AREA SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL ACCORDING TO TITLE V(2006) SECTION 15.255 "CONSTRUCTION IN FILL"
7. PER TITLE 5 REQUIREMENTS, THE DESIGN ENGINEER IS REQUIRED TO INSPECT CONSTRUCTION OF THE SEPTIC SYSTEM AND CERTIFY THAT THE SYSTEM IS CONSTRUCTED ACCORDING TO THE PLANS, LOCAL REGULATIONS, AND TITLE 5. IN MOST INSTANCES THE DESIGN ENGINEER IS ALSO REQUIRED TO PREPARE AN "AS–BUILT" PLAN. UNLESS OTHERWISE SPECIFICALLY STATED IN WRITING BETWEEN OWNER AND THE INSTALLER, THE INSTALLER SHALL BE RESPONSIBLE FOR COORDINATING INSPECTIONS WITH THE DESIGN ENGINEER AND PAY FOR THESE SERVICES. NOTIFYING THE DESIGN ENGINEER DOES NOT RELIEVE THE OWNER OR INSTALLER FROM THE RESPONSIBILITY OF HAVING THE REQUIRED INSPECTIONS ETC. BY THE BOARD OF HEALTH.
8. FINISHED GRADE OVER THE LEACHING AREA SHALL HAVE A MINIMUM SLOPE OF 2%.
9. THE FIRST TWO FOOT SECTIONS OF PIPE FROM THE D. BOX SHALL BE SET LEVEL.
10. THE SYSTEM SHALL BE STAKED AND THE BENCHMARK SET IN THE FIELD BY THE DESIGN ENGINEER
11. ALL UNDERGROUND UTILITIES SHOWN HERE WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS FROM VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, OR PAVEMENT RESTORATION OR REPAIR. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED, INCLUDING THOSE IN CONTROL OF UTILITIES. SEE CHAPTER 370, ACTS OF 1963 MASS. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE PLANNING FUTURE CONNECTIONS, THE APPROPRIATE UTILITY ENGINEERING DEPARTMENT MUST BE CONSULTED. D.I.G. SAFE TELE. NO.: 1–888–344–7233.
12. ALL ROOF RUNOFF SHALL BE DIRECTED TO INFILTRATION DRYWELLS.
13. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO BE LOCATED ONCE BURIED.
14. ALL DISTURBED SURFACES SHALL BE RESTORED WITH 4" OF LOAM AND SEED.
15. SEWER MANHOLES BROUGHT TO FINISH GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS.
16. EFFLUENT TEE FILTER SHALL BE INSTALLED IN COMPLIANCE WITH APPROVAL ISSUED AUGUST 11, 1997. ALL SEWER MANHOLES AT FINISHED GRADE SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. COVER SHALL BE PERMANENTLY MARKED "EFFLUENT TEE FILTER".
17. PROPOSED VENT MAY BE RELOCATED UPON OWNERS REQUEST AND MAY ALSO BE REPLACED WITH AN ALTERNATIVE DESIGN, AVAILABLE FROM VARIOUS MANUFACTURERS.

PLAN VIEW:

RESIDENCE R–2
GROUNDWATER PROTECTION
DISTRICT ZONE 4
SCALE: 1"=20'



CULTEC CONTACTOR C-4 BED CROSS SECTION N.T.S.

FILE: C-4 SECTION 4+ WIDE.DWG

INVERT ELEVATIONS:

4" INV. @ BUILDING	=	112.15
4" INV. @ SEPTIC TANK (IN)	=	111.91
4" INV. @ SEPTIC TANK (OUT)	=	111.66
4" INV. @ D.BOX (IN)	=	111.21
4" INV. @ D.BOX (OUT)	=	111.04

AT LEACHING FACILITY:
PRIMARY:
CULTEC CHAMBER (SET LEVEL)

TOP CHAMBER	=	111.21
4" INV. @ BEGIN CHAMBERS	=	110.75
BOTTOM CHAMBERS	=	110.50

RESERVE:
CULTEC CHAMBER (SET LEVEL)

TOP CHAMBER	=	110.71
4" INV. @ BEGIN CHAMBERS	=	110.25
BOTTOM CHAMBERS	=	110.00

DESIGN DATA:

DESIGN FLOW:
4 BR. X 110 GPD/BR = 440 GPD
NO GARBAGE DISPOSAL ALLOWED

REQUIRED SEPTIC TANK:
REQUIRED: 880 & 440 GAL=1320 GAL
PROVIDED: 1000 & 500 GAL=1500 GAL

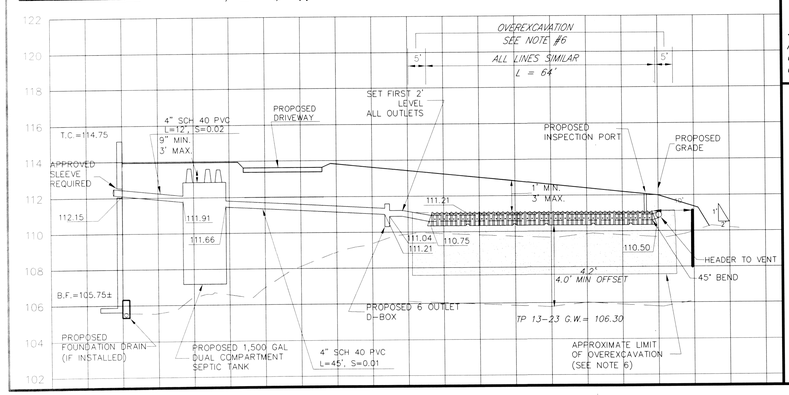
REQUIRED SIZE SOIL ABSORPTION SYSTEM: (PRIMARY & RESERVE)
PT13–K = 13 MPI CLASS II SOIL
440 GPD/0.56 GPD/S.F. = 786 S.F.
800 S.F. MINIMUM PER ACTON BOH

TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:
PRIMARY:
CULTEC CONTRACTOR C–4
EFFECTIVE LEACHING AREA PER L.F.=
1.67 x BOTTOM WIDTH (SEE NOTE 21)
1.67 x 4' = 6.67 SF/LF
128 LF x 6.67 SF/LF = 854 SF
854 SF > 800 SF O.K.
RESERVE:
CULTEC CONTRACTOR C–4
EFFECTIVE LEACHING AREA PER L.F.=
1.67 x BOTTOM WIDTH (SEE NOTE 21)
1.67 x 4' = 6.67 SF/LF
120 LF x 6.67 SF/LF = 800.4 SF
800.4 SF > 800 SF O.K.

TITLE V CONVENTIONAL SYSTEM

TYPE AND SIZE OF SOIL ABSORPTION SYSTEM PROVIDED:
4 TRENCHES: 2' W X 2' D X 34' L
4 TRENCHES X 6 SF/FT X 34 FT = 816 SF > 800 SF O.K.

PROFILE: SCALE: 1"= 20' H. 1"= 4' V.



STOVE PIPE TOP AND "SWEET AIR FILTER" AS SUPPLIED BY BUTLER LUMBER Co. MAYNARD, MA. OR APPROVED EQUAL

VENT DETAIL
N.T.S.

FILE: VENT CULTEC.DWG

DETAILED SPECIFICATIONS
8" SEDIMENT FILTERMITT ™
SLOPES 2 TO 1 OR LESS
FIG. 1

SILTATION BARRIER DETAIL
NOT TO SCALE

FOR FURTHER INFORMATION ABOUT PHASE II STORMWATER PRODUCTS, INC. CONTACT US AT: P.O. Box 737 - WRENTHAM, MA 02093 - PH: (508) 384-7140 - FAX: (508) 384-0571 www.groundcoversexpress.com

BREAKOUT PROTECTION BARRIER DETAIL
N.T.S.

SEWAGE DISPOSAL PLAN

PREPARED FOR: LEXINGTON HOLDING, LLC
ADDRESS: 6 OPEN SPACE DRIVE
SANDWICH, MA 02563
(508) 740–8411
LOCATION: LOT 1, CONSTITUTION DRIVE
ACTON, MA 01720

SCALE: AS SHOWN
DATE: OCTOBER 3, 2013

PREPARED BY:
STAMSKI AND McNARY, INC.
CIVIL ENGINEERS LAND SURVEYORS
1000 MAIN STREET – ACTON, MA 01720
(978) 263–8585

COMMONWEALTH OF MASSACHUSETTS GEORGE DIMAKARAKOS CIVIL No. 41281 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: JTM DRAWN BY: JTM JOB No. SM–4993 FILE: 4993–SDS.DWG