

24.15' SANDBED

EXISTING CI OR PVC PIPE

SEPTIC LAYOUT

SCALE: 1" = 20'

32-6-7

JAMES BEATEY &

CAROLYN J. MALONE

BK. 34408 PG. 318

Deck >

Existing 3 Bedroom

Single Family Dwelling//

TOF = 93.89

FFE = 95.08

UTILITY ROAD

Edge of Pavement S 82°25'10" W

1.) NO STONE BELOW OR AROUND CHAMBERS IS REQUIRED.

- 2.) BACKFILL CHAMBERS WITH CLEAN COARSE SAND IN ACCORDANCE WITH 310 CMR 15.255 (3) TO THE TOP OF THE CHAMBER.
- 3.) DO NOT BACKFILL WITH ANY STONES 3" OR LARGER AGAINST CHAMBERS.
- 4.) CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

LOCAL UPGRADE APPROVAL REQUESTS

310 CMR 15.405(h): TO ALLOW A REDUCTION FROM 4' (REQ'D) TO 3' (PROP.) BETWEEN GROUNDWATER AND THE BOTTOM OF THE SAS.

DESIGN DATA

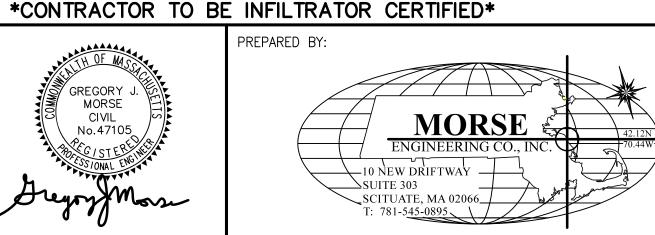
- . BUILDING TYPE: RESIDENTIAL NO. OF BEDROOMS: 3
- DESIGN FLOW: 3 BEDROOMS x 110 G.P.D./BED = 330 G.P.D. . DESIGN PERCOLATION RATE: 5 MPI (TP-1)
- GARBAGE DISPOSAL: NO SEPTIC TANK DESIGN REQUIREMENT: 200% DESIGN FLOW 330 X 2 = 660 GAL. (USE 1500 GAL. SEPTIC TANK) LEACH AREA REQUIREMENTS GALLONS/SQ. FT. (CLASS I SOILS)
- BOTTOM: 0.74 GAL./S.F. SIDE: 0.74 GAL./S.F. 8. TOTAL LEACH AREA REQUIRED: TITLE 5: 330 GPD / (0.74 GPD/S.F.) = 445.9 S.F.
- PROVIDED: 5 ROWS OF 4 INFILTRATOR ARC-36 LEACHING CHAMBERS 20 CHAMBERS x 5'L (EA.) x 4.8 S.F./L.F.* = 480 S.F. CAPACITY: $480 \text{ S.F. } \times 0.74 \text{ GPD/S.F.} = 355.2 \text{ GPD}$

- 1. SEPTIC SYSTEM INSTALLATION CONTRACTORS SHALL BE LICENSED BY THE BOARD OF HEALTH AND MUST COMPLY WITH ALL REQUIREMENTS OF THE BOARD OF HEALTH DISPOSAL WORKS CONSTRUCTION PERMIT AND ANY CONDITIONS, IF ISSUED BY THE CONSERVATION COMMISSION.
- 2. ALL CONSTRUCTION MUST COMPLY WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE 310 CMR 15 & THE ANY LOCAL BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- 3. THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF
- 4. ANY CHANGE IN SITE CONDITIONS, DISCREPANCIES, ERRORS OR OMISSIONS SHALL BE BROUGHT

CHAMBERS

- TO THE ATTENTION OF MORSE ENGINEERING PRIOR TO THE COMMENCEMENT OF WORK. 5. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH TITLE 5 (310 CMR 15) AND THE
- LOCAL BOARD OF HEALTH REQUIREMENTS TO THE FULLEST EXTENT PRACTICABLE. NO GUARANTEE TO THE SYSTEMS PERFORMANCE IS EXPRESSED OR IMPLIED.
- 6. SOIL TEST DATA SHOWN IS LIMITED TO THE CONDITIONS EXISTING AT THE SUBJECT TEST PIT LOCATION ONLY. IF DIFFERENT SOIL CONDITIONS ARE FOUND IN THE AREA OF THE PROPOSED SOIL ABSORPTION SYSTEM THEY SHALL BE BROUGHT TO THE ATTENTION OF
- APPROXIMATE ONLY AND HAVE BEEN COMPILED FROM AVAILABLE RECORDS AND OBSERVABLE SITE FEATURES. UTILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT AT THIS LOCATION. 8. THIS PLAN HAS BEEN PREPARED SPECIFICALLY AS A SEPTIC SYSTEM DESIGN AND IS NOT TO
- BE USED TO ESTABLISH PROPERTY LINES OR BUILDING SETBACKS. PROPERTY LINES AND BUILDING LOCATIONS ARE GRAPHIC ONLY, PROPERTY LINES NOT HAVING BEEN VERIFIED. NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED.
- 9. CONTRACTOR TO VERIFY AND ENSURE THAT ALL INTERIOR PLUMBING IS DIRECTED INTO PROPOSE SEPTIC SYSTEM. ANY VARIATIONS FROM THE DESIGN AS SHOWN SHALL BE BROUGHT TO THE
- DESIGN ENGINEER 24-HOURS IN ADVANCE OF THE FOLLOWING INSPECTIONS:
- 2. PRIOR TO COVERING THE CONSTRUCTED SYSTEM.
- 310 CMR 15 & THE ANY LOCAL BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- CLEANED AND CEMENTED FITTINGS, UNLESS OTHERWISE NOTED.
- 4. ALL PRECAST/PIPE CONSTRUCTION JOINTS AND FITTINGS SHALL BE MADE WATERTIGHT
- 5. THE CONTRACTOR SHALL PROVIDE A SIEVE ANALYSIS OF THE TITLE 5 PERC SAND UTILIZED FOR FILL TO VERIFY THAT IT MEETS THE REQUIREMENTS OF 310 CMR 15.255(3). TITLE 5 SAND FILL SHALL COMPLY WITH THE FOLLOWING:
- 6. THE CONTRACTOR SHALL PREVENT ANY HEAVY CONSTRUCTION MACHINERY AND/OR TRUCKS FROM DRIVING OVER THE PROPOSED SOIL ABSORPTION SYSTEM LOCATION UNTIL
- 7. THE CONTRACTOR SHALL INSTALL MAGNETIC TAPE OVER SYSTEM PIPING & COMPONENTS
- 8. THE DESIGN ENGINEER SHALL CERTIFY AND PREPARE AN "AS-BUILT" PLAN FOR SUBMITTAL
- TO THE BOARD OF HEALTH UPON SEPTIC SYSTEM COMPLETION.
- 10. CONTRACTOR SHALL ABANDON EXISTING SEPTIC COMPONENTS IN ACCORDANCE WITH 310 CMR
- 1. LOCUS DOES NOT LIE WITHIN A DEP DESIGNATED ZONE II RESOURCE AREA.
- 2. ALL WETLANDS OBSERVED WITHIN 100' OF PROPOSED WORK ARE SHOWN.
- PLANS ON FILE AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS 4. THERE WERE NO ACTIVE/POTABLE WELLS OBSERVED WITHIN 100' OF THE PROPOSED SYSTEM.
- 5. LOCUS LIES IN FEMA FLOOD ZONE "X" AS SHOWN ON FEMA COMMUNITY MAP PANEL 25023C 0109K DATED NOVEMBER 4, 2016. ZONE X IS DESCRIBED AS AN AREA OF

MINIMAL FLOODING ABOVE THE 100-YR. FLOOD BOUNDARY.



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DATA TYPE: RESIDENTIAL	PROJECT:	SEPTIC SY	STEM DESIGN PLAN	DESIGN: JDG
REDROOMS: 3		10 U	JTILITY ROAD	CHECK:
LOW: 3 BEDROOMS x 110 G.P.D./BED = 330 G.P.D. PERCOLATION RATE: 5 MPI (TP-1)		ASSESSO	OR'S PARCEL: 32-6-6	JMH
DISPOSAL: NO ANK DESIGN REQUIREMENT: 200% DESIGN FLOW		SCITUAT]	E, MASSACHUSETTS	JOB NO: 20-157
= 660 GAL. (USE 1500 GAL. SEPTIC TANK) REA REQUIREMENTS GALLONS/SQ. FT. (CLASS I SOILS) 0.74 GAL./S.F. SIDE: 0.74 GAL./S.F.	PREPARED FOR:	BERTRAND E 10 UTILITY RO	. & SHARON PLOURDE	DATE: 4/2/2020
ACH AREA REQUIRED: 330 GPD / (0.74 GPD/S.F.) = 445.9 S.F.		SCITUATE, MA		REV:
20 CHAMBERS x 5'L (EA.) x 4.8 S.F./L.F.* = 480 S.F.	PLAN TITLE:			
CAPACITY: 480 S.F. x 0.74 GPD/S.F. = 355.2 GPD *EFFECTIVE AREA PER GENERAL USE CERTIFICATION ISSUED BY DEP.		SEPTIC SY	YSTEM DESIGN PLAN	SHEET:

REMOVE & REPLACE

CONTRACTOR TO EXCAVATE ALL UNSUITABLE MATERIAL TO A DEPTH OF 18"± (TO C1 HORIZON) & REPLACE WITH CLEAN TITLE 5 PERC SAND TO EL.= 91.88 DIRECTLY UNDER AND WITHIN 5-FT. HORIZONALLY OF THE PROPOSED SOIL ABSORPTION SYSTEM.

(APPROX. SAND VOL. = $1.2\% \times 30$ 'L × 24.15'W × (91.88-89.0) / 27 = 93 C.Y. \pm

PROJECT FILES\2020 PROJECTS\20-157\CAD\20-157.DW

DIG SAFE RI-ME-N

CONVENTIONAL SAS

LAYOUT 20' x 23'

PROP. 5 OUTLET

PROP. 2" SCH. 40

FORCEMAIN (DRAIN

BENCHMARK

TOP OF FOUNDATION

EL=93.89(NAVD88)

BACK TO P.C.)-

DIST. BOX-

(NOT TO BE CONSTRUCTED)