

TEST PITS 1-7
 DUG 3 AUGUST, 2023
 DAVID A. TUDHOPE, R.L.S. & SITE TECH B
 MARK DAY, L.S.
 JR. DRINKWINE, EXCAVATOR
 GEORGE PIGEON, OWNER

TEST PIT 1
 0-12" 10YR 5/3 GR FSL FRIABLE.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 24"-40" 10YR 6/1 MA SIC VERY FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

TEST PIT 2
 0-12" 10YR 5/3 GR FSL FRIABLE.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 24"-42" 10YR 6/1 MA SIC VERY FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

TEST PIT 3
 0-12" 10YR 5/3 GR FSL FRIABLE.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 24"-42" 10YR 6/1 MA SIC VERY FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

TEST PIT 4
 0-12" 10YR 5/3 GR FSL FRIABLE.
 12"-24" 10YR 5/2 PL SIL FIRM REDOX. FEATURES.
 24"-42" 10YR 6/1 MA SIC VERY FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

TEST PIT 5
 0-12" 10YR 5/3 SBK LOAM.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 24"-42" 10YR 6/1 MA SIL VERY FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

AUGER PIT 6
 0-12" 10YR 5/3 SBK LOAM.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

AUGER PIT 7
 0-12" 10YR 5/3 SBK LOAM.
 12"-24" 10YR 5/2 MA SIL FIRM REDOX. FEATURES.
 ESTIMATED SHWT 12", ROOTS TO 12"

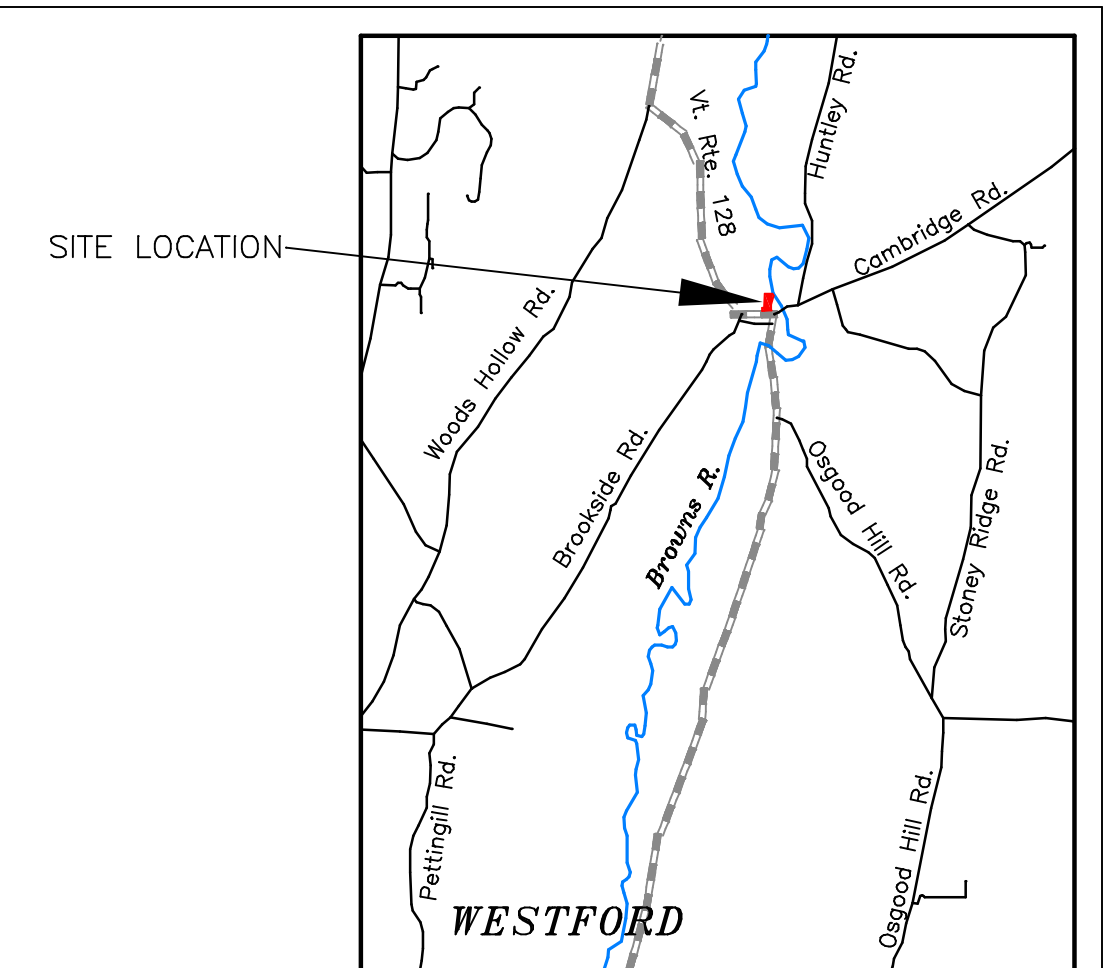
LOT 1 REPLACEMENT MOUND DESIGN:

BASIS OF DESIGN:
 EXISTING FOUR (4) BEDROOM SINGLE FAMILY RESIDENCE.
 (140 g.p.d./bedrm. X 3 bed'rm.) +
 (70 g.p.d./bedrm. X 1 bed'rm.) = **490gpd**

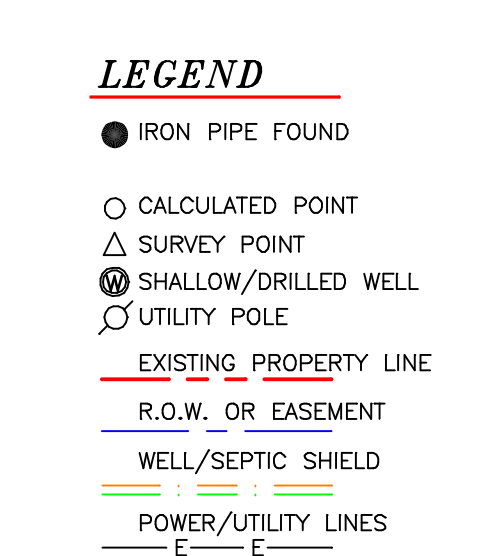
DESIGN CONDITIONS:
 ±12% GRADE, SHWT @ 12", SOIL TEXTURE = LOAM
 LLR factor = 14.0, MAX. MOUNDING (h) = 6".
 L.L.R. = (6/12)' X 14.0 = 7.00gpd/lf
 490gpd/7.00gpd/lf = 70 lf, MINIMUM.
 490gpd/2.0gpd/sf = 245sf OF ABSORPTION AREA REQUIRED.
 USE MOUND TRENCH 4' X 70' = 280sf
 280sf AVAILABLE => 245sf REQUIRED
 70 lf => 70 lf, REQUIRED

MOUND SAND CALCULATIONS:
 gpd/ACTUAL LENGTH = ACTUAL LLR
 490gpd/70 lf = 7.00gpd/lf
 ACTUAL LLR/LLR FACTOR = ACTUAL MOUNDING(h)
 7.00/14.0 = 0.500' OR ±6"
 6" (TO MOUNDING) + 12" FILL = 18" FROM BOTTOM
 OF BED TO MOUNDING.
 12" (TO SHWT) + 12" FILL = 24" FROM BOTTOM
 OF BED TO SHWT.

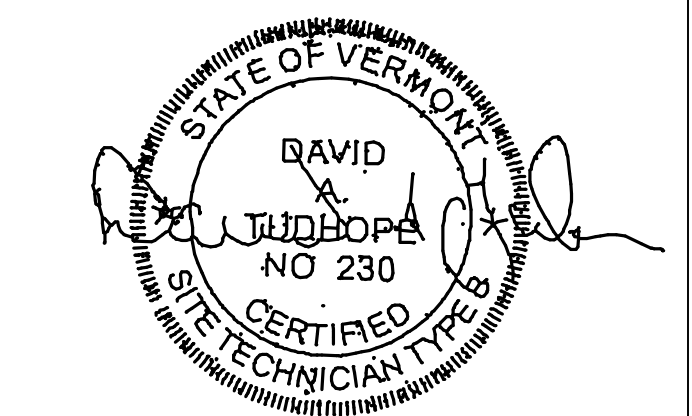
USE 12" MIN. MOUND SAND FILL BELOW BED.



SUBJECT PARCEL:
 ±3.3 AC. TOTAL
OWNER OF RECORD:
 PIGEON FAMILY LIVING TRUST
 GEORGE PIGEON, TRUSTEE
 VOL. 157, PGS. 163-164
 PARCEL I.D.# 05TW043
 SPAN # 720-229-10632



"I hereby certify that the design-related information submitted with this application is true and correct, and that, in the exercise of my reasonable professional judgement, the design included in this application for a permit complies with Vermont Wastewater system and Potable Water Supply Rules and the Vermont Water Supply Rules."



17 JANUARY, 2023

PIGEON LOT 1

SEPTIC & WATER PLAN

DRAWN	DATE	Prepared for:
D.A.T.	12/21/23	George Pigeon
APPROVED	DATE	1705 Vt. Rte. 128
D.A.T.	01/17/24	Westford, Vermont
SCALE	SHEET	PROJECT NO.
1" = 30'	1	3058

DAVID A. TUDHOPE
 74 CAYUGA COURT
 BURLINGTON, VERMONT 05408
 TELE.: (802) 862-9360
 dtudhope@aol.com
 REGISTERED LAND SURVEYOR 538
 SITE TECHNICIAN B # 230

MOUND NOTE:
 THE LAND AREA DOWNGRADIENT OF THE ELEVATED SAND MOUND IS THE EFFLUENT DISPERSAL AREA AND THE SOIL IN THIS AREA MAY NOT BE REMOVED OR DISTURBED. DO NOT DISTURB SOILS WITHIN 10FT. OF ALL OTHER TOES.

