



SCALE: 1"=20'

REV.	DESCRIPTION	DATE

DESIGNED BY: LPS
 CHECKED BY: RS
 DATE PLAN: 10/09/18
 DATE SURVEY: 7/2018
 PROJECT NO.: 22045
 C/D NO.: 10644 CONCEPT 4

SVE Associates

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Project:
**WESTMORELAND
 FIRE STATION
 FEASIBILITY
 STUDY**
 ROUTE 83
 WESTMORELAND,
 NEW HAMPSHIRE

CONCEPT #6 PLAN

SHEET

C-6

LOT LOADING:
 ENV: WQ 1005-03 (MAXIMUM LOADING 2,000 GPD/ACRE)
 SOIL TYPE FROM USDA NRCS WEB SOIL SURVEY: BERNARDSTON Pk. SLOPES, GROUP 3, SEWAGE LOADING FACTOR = 1.8
 MINIMUM LOT SIZE FOR COMMERCIAL = $Q \text{ gpd}/(1,000 \text{ gal}/\text{acre}) \times \text{SEWAGE LOADING FACTOR}$
 TOTAL LOT AREA = 2.1 ACRES - WETLAND AREA - WELL RADIUS = $2.1 - 0.61 - 0.41 = 1.17 \text{ ACRES} = 02,000 \times 1.8$
 1,483 GPD = Q MAX

PRELIMINARY LEACHFIELD SIZING:
 Q FROM ENV: WQ 1005-03 (Q):
 FIRE STATIONS = 8 GPD/PERSON
 TOWN HALL = 8 GPD/SEAT FOR TOTAL SEATING CAPACITY
 TOWN OFFICES = 10 GPD/OFFICE EMPLOYEE + 5 GPD/TRANSIENT

35 FIREMAN (ASSUMED) AT 8 GPD = 150 GPD
 100 SEATS (ASSUMED) FOR TOWN HALL AT 8 GPD/SEAT = 800 GPD
 8 EMPLOYEES IN TOWN HALL AT 10 GPD/EMPLOYEE + 10 TRANSIENTS AT 8 GPD/TRANSIENT = 100 GPD
 DESIGN FLOW = 150 GPD + 800 GPD + 100 GPD = 760 GPD

USING CLEAN SOLUTION SYSTEM & CONVENTIONAL PIPE & STONE LEACHFIELD
 ASSUMED PERCOLATION RATE = 31 MIN/IN

- Leachfield Design Criteria**
1. LOCATION OF TRENCHES & LOCATION OF WETLANDS >15'
 2. LOCATION OF SURFACE AND SUBSURFACE DRAINS >15'
 3. WATER SUPPLY SOURCE: DRILLED WELL
 4. SYSTEM IS USED DESIGNED FOR A CARBIDE DISPOSAL
 5. SYSTEM IS USED DESIGNED FOR A BACKWASH TYPE WATER TREATMENT SYSTEM
 6. SYSTEM TO BE RESULT IN PLACE AT FUTURE OCCURE
 7. USE: FIRE STATION & TOWN HALL
 8. DESIGN FLOW: WARMER SEWARD = 750 GPD
 9. SEPTIC TANK CAPACITY (ENV NO 1010.02) REQUIRED VOLUME = TWICE DAILY FLOW = 1500 GAL
 10. FOUNDATION DRAINIS PERM
 11. SOIL WATERS SOILS [1510] - HAVE VERY FINE SANDY LOAM, 3 TO 6% SLOPES
 12. DESIGN INTEND: THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT ELEVATION 443.5; IT IS APPROXIMATELY 0.5' ABOVE ORIGINAL GROUND AT THE HIGH CORNER OF THE SYSTEM.

LEGEND

- HYDRANT
 - ◻ EXISTING CATCH BASIN
 - ◻ PROPOSED CATCH BASIN
 - ◻ CULVERT END SECTION
 - SEWER MANHOLE
 - GATE VALVE
 - DRAIN MANHOLE
 - HANDICAP PARKING
 - LIGHT POLE
 - SEWER LINE
 - WATER LINE
 - STORM DRAIN LINE
 - SILT FENCE
 - 100 YEAR FLOODPLAIN BOUNDARY
 - WETLAND BOUNDARY
 - SIGN
- U.N.D. UNLESS NOTED OTHERWISE
 N.I.C. NOT IN CONTRACT
 T.B.R. TO BE REMOVED
 O.A.E. OR APPROVED EQUAL
 S.C.E. STABILIZED CONSTRUCTION ENTRANCE
 I.C.C. INTEGRAL CONCRETE CURB
 V.C.C. VERTICAL CONCRETE CURB
 V.G.C. VERTICAL GRANITE CURB
 T.D. TIP-DOWN

NOTE:
 WETLANDS SHOWN ON JASON & ELEANOR BAFUNDI ARE REFERENCED FROM A PLAN TITLED "PROPOSED SUBDIVISION PLAN OF LAND OF DANIEL H. & ALISON W. FIBESITZ" DATED JUNE 21, 2013 AND REVISED AUGUST 17, 2013 BY EDWARD GOODRICH, JR.

