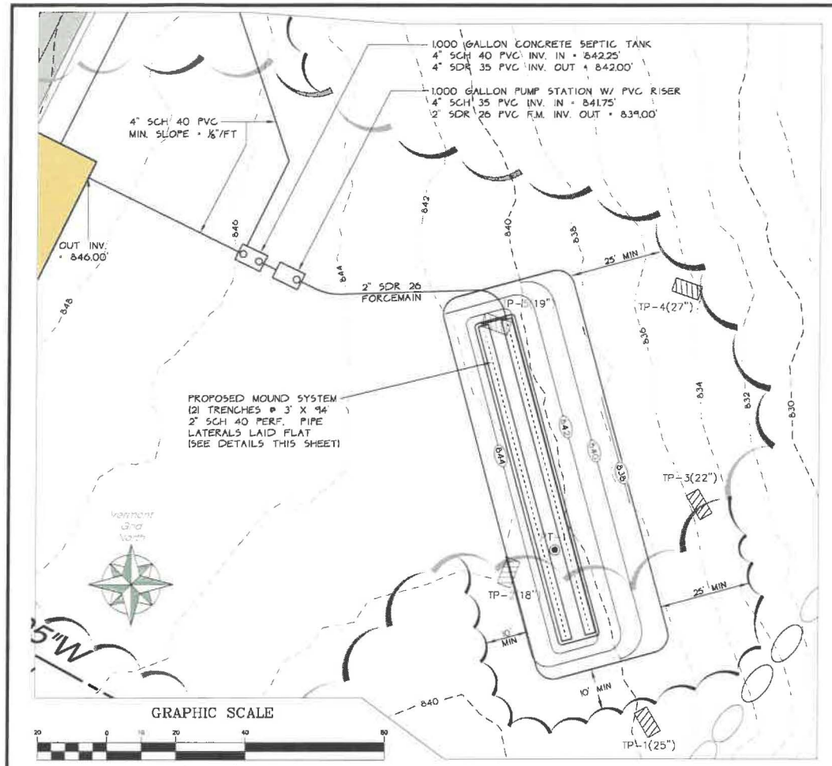


SOIL TEST PIT LOGS

DATE 6/12/18
METHOD EXCAVATOR
BY DAVID BURKE

TP-1
0"-10": YELLOW/BROWN LOAM
10"-19": BROWN FINE SANDY LOAM
19"-25": GRAY/BROWN FINE SANDY LOAM
25"-42": GRAY/BROWN FINE SANDY LOAM, FIRM W/ FE+

NO H20, NO LEDGE, REDOX AT 25"+

TP-2
0"-11": YELLOW/BROWN LOAM
11"-19": BROWN FINE SANDY LOAM
19"-25": BROWN FINE SANDY LOAM WITH FE+
25"-33": LIGHT GRAY FINE SANDY LOAM W/ FE+ & FE-
33"-39": OLIVE/BROWN SILTY SAND, DENSE, FE+

NO H20, NO LEDGE, REDOX 18"

TP-3
0"-9": DARK BROWN LOAM
9"-22": LIGHT BROWN FINE SANDY LOAM
22"-27": GRAY/BROWN FINE SANDY LOAM W/ FE+ & FE-
27"-36": GRAY/BROWN FINE SANDY LOAM, FIRM

NO H20, NO LEDGE, REDOX AT 22"

TP-4
0"-7": DARK BROWN LOAM
7"-17": BROWN FINE SANDY LOAM
17"-28": LIGHT BROWN FINE SANDY LOAM, 10% STONES
28"-44": GRAY/BROWN FINE SANDY LOAM, DENSE W/ 10% ROCKS

NO H20, NO LEDGE, REDOX @ 27"

TP-5
0"-10": DARK BROWN LOAM
10"-14": RED/BROWN FINE SANDY LOAM
14"-21": LIGHT BROWN FINE SANDY LOAM, FE+ @ 19"
21"-36": GRAY VERY FINE SANDY LOAM, FIRM, FE

NO H20, NO LEDGE, REDOX @ 19"

TP-6 (Lot #1 Replacement Area)
0"-10": DARK BROWN LOAM
10"-26": LIGHT BROWN VERY FINE SANDY LOAM
26"-36": GRAY/BROWN VERY FINE SANDY LOAM, DENSE

NO H20, NO LEDGE, REDOX @ 25"

SUMMARY OF SOIL TEST PITS

TP-1&2 ON 12/30/13 WITH BILL ZABLOSKI; TP-6&7 ON 7/3/18

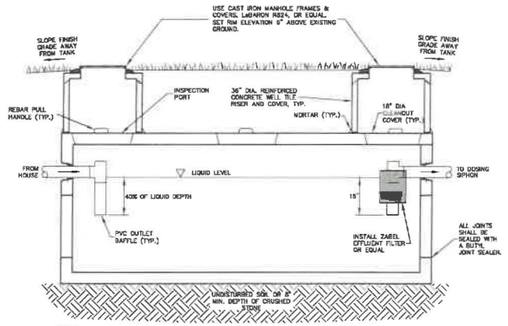
TEST PIT NUMBER	EXISTING GROUNDWATER (DEPTH IN INCHES)	REDOXIMORPHIC FEATURES (DEPTH IN INCHES)	EXISTING LEDGE (DEPTH IN INCHES)
1	> 42	25	> 42
2	> 39	18	> 39
3	> 36	22	> 36
4	> 44	27	> 44
5	> 36	19	> 36
6	> 36	25	> 36

PERCOLATION TEST RESULTS

TESTS PERFORMED ON 6/24/18 BY TBC

TEST NUMBER	TEST DEPTH (INCHES)	PERCOLATION RATE (MINUTES/INCH)
PT 1	18	7.2 MIN./INCH

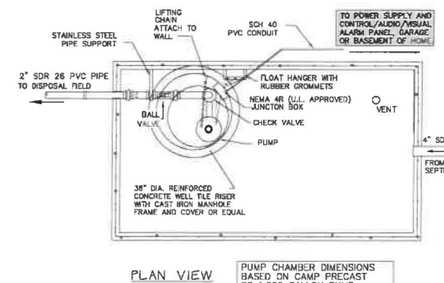
THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.



NOTES:
1. HEAVY-DUTY SEPTIC TANK TOPS REINFORCED WITH 5/8" REBAR @ 12" O.C. EACH WAY.
2. REVED JOINT SEALED WITH BUTYL RUBBER.
3. EXCAVATION MUST BE AT LEAST 12" WIDER AND LONGER THAN TANK SIZE.
4. PROVIDE WATERTIGHT PIPE CONNECTIONS USING PRE-FAB 4" PLASTIC BOOTS OR NON-SHRINK GROUT.
5. EXTERNALLY COAT CONCRETE SEPTIC TANK WITH TWO COATS OF A BITUMINOUS WATERPROOFING. THE TANK SHALL BE LEAKAGE TESTED PRIOR TO BACKFILLING.

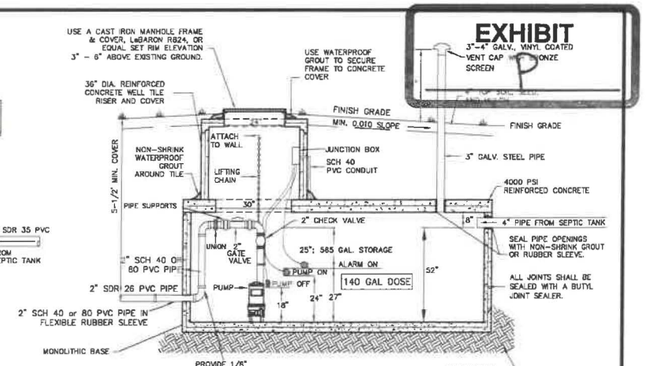
CONCRETE SEPTIC TANK

NTS



PLAN VIEW

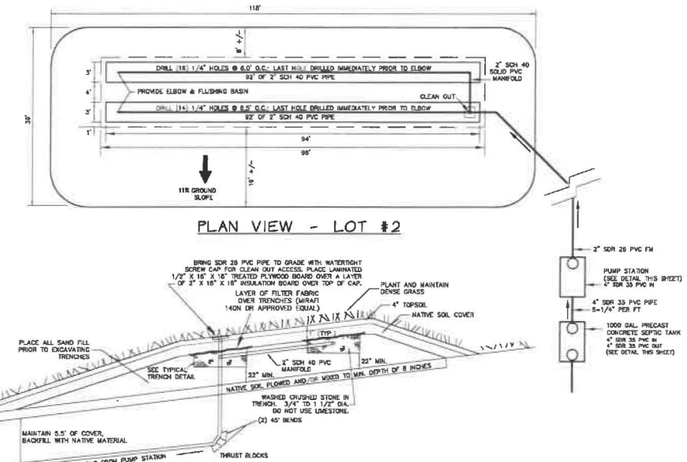
PUMP CHAMBER DIMENSIONS BASED ON CAMP PRECAST PS 1,000 GALLON PUMP STATION (271 GAL/VF)



SIDE VIEW

PUMP STATION

NTS



SECTION VIEW

STEPPED MOUND SYSTEM - LOT #2

NTS

SEWAGE DESIGN INFORMATION

1. THE MOUND SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS & THE ENVIRONMENTAL PROTECTION RULES.
2. BASIS OF DESIGN:

NO. OF BEDROOMS (HOUSE) =	3
NO. OF BEDROOMS (ACC. APT.) =	1
TOTAL DESIGN FLOW =	420+140=560 GPD
PERCOLATION RATE =	<60 MIN/INCH
APPLICATION RATE =	1.0 GPD/SF
ABSORPTION AREA REQUIRED: 560 / 1.0 =	560 SF
BASAL AREA REQUIRED: 560 / 0.74 =	757 SF
ABSORPTION AREA PROVIDED: (2) TRENCHES @ 3' X 94' =	564 SF
BASAL AREA PROVIDED: 94' X 29' =	2,726 SF

3. THE FOLLOWING MINIMUM ISOLATION DISTANCES SHALL BE MAINTAINED FROM THE DISPOSAL AREA TO:

PROPERTY LINE	25 FEET
BUILDING (WITH FOOTING DRAIN) UPSLOPE OR SIDESLOPE	35 FEET
BUILDING (WITH FOOTING DRAIN) DOWNSLOPE	75 FEET
DRIVEWAYS & PARKING LOTS	10 FEET
TREES	10 FEET

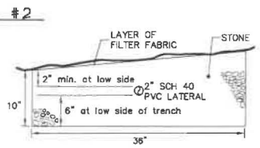
4. SEPTIC TANK: USE A 1,000 GALLON REINFORCED PRE-CAST CONCRETE SEPTIC TANK AS MANUFACTURED BY CAMP PRECAST PRODUCTS OR APPROVED EQUAL, WITH TWO COVERS TO GRADE; WATERPROOF JOINTS & COATING; OUTLET FILTER; AND SET ON THOROUGHLY COMPACTED SUB-BASE.
5. PUMP STATION:
   A) USE A 1,000 GALLON PRE-CAST CONCRETE TANK AS MANUFACTURED BY CAMP PRECAST PRODUCTS OR APPROVED EQUAL, WITH ON COVER TO GRADE; 4,000 PSI CONCRETE; WATERPROOF JOINTS; AND SET ON THOROUGHLY COMPACTED SUB-BASE. EXTERNALLY COAT THE CONCRETE.
   B) ALL BACKFILL MATERIAL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.
   C) ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND MATERIALS SHALL MEET U.L. APPROVAL.
   D) PUMP SPECIFICATIONS:

LOT #2	
HEAD LOSSES:	
FORCE MAIN (2" SDR 26 PVC X 60 LF=	2 FT
STATIC LIFT (843.40-839.00)=	5 FT
NETWORK LOSSES / FITTINGS=	2 FT
PRESSURE HEAD TO BE MAINTAINED=	3 FT
TOTAL HEAD LOSS=	12 FT
MIN. DISCHARGE RATE=	45 GPM

   USE ONE (1) PUMP, SINGLE PHASE, 230 VOLTS, MINIMUM PASSING DIAMETER = 1-1/2" SOLID SPHERE, 2" DISCHARGE PIPE CONNECTION, MINIMUM CAPACITY: SEE ABOVE AND ATTACHED.
   E) THE CONTRACTOR SHALL VERIFY PUMP ADEQUACY WITH THE ENGINEER.
   F) FLOAT CONTROL AND PANEL: ANCHOR SCIENTIFIC OR APPROVED EQUAL. ALARM PANEL SHALL HAVE AN AUDIO SIGNAL.
   G) PUMP CONTROL SHALL BE BY S.J. ELECTRO SYSTEMS PUMP CONTROLS OR EQUAL.

SAND FILL MATERIAL SHALL MEET ONE OF THE FOLLOWING SIEVE ANALYSES: (CONTRACTOR TO PROVIDE RECENT SIEVE ANALYSIS RESULTS MEETING BELOW)

A. SIEVE NO.	% PASSING	B. SIEVE NO.	% PASSING	C. SIEVE NO.	% PASSING
10	85-100	4	95-100	10	85-100
40	25-75	8	80-100	40	30-50
60	0-30	16	50-85	200	0-10
100	0-10	30	25-60		
200	0-5	50	10-30		
		100	2-10		



TYPICAL TRENCH

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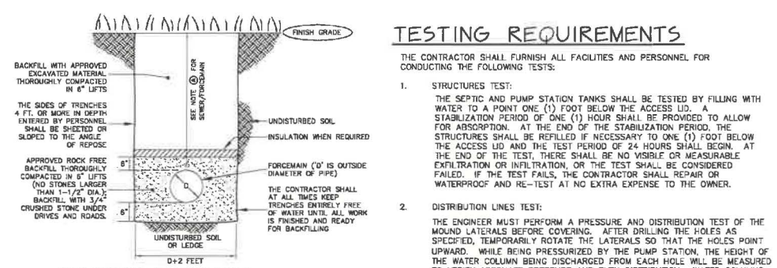

NOTE (A) (FOR SEWER AND FORCEMAIN TRENCHES):
IF COVER IS LESS THAN 5' OVER FORCEMAIN, PLACE 2' WIDE BY 4" THICK INSULATION BOARD, SUITABLE FOR BURIAL, ON A 6" BED OF SAND OVER THE PIPE. IN NO CASE SHALL DEPTH OF FORCEMAIN COVER BE LESS THAN 3'. BUILDING SEWER SHALL HAVE A MIN. DEPTH OF COVER OF 2'.

TYPICAL SEWER + FORCEMAIN TRENCH

NTS

TESTING REQUIREMENTS

THE CONTRACTOR SHALL FURNISH ALL FACILITIES AND PERSONNEL FOR CONDUCTING THE FOLLOWING TESTS:

1. STRUCTURES TEST:
   THE SEPTIC AND PUMP STATION TANKS SHALL BE TESTED BY FILLING WITH WATER TO A POINT ONE (1) FOOT BELOW THE ACCESS LID. A STABILIZATION PERIOD OF ONE (1) HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THE STABILIZATION PERIOD, THE STRUCTURES SHALL BE REFILLED IF NECESSARY TO ONE (1) FOOT BELOW THE ACCESS LID AND THE TEST PERIOD OF 24 HOURS SHALL BEGIN. AT THE END OF THE TEST, THERE SHALL BE NO VISIBLE OR MEASURABLE EXFILTRATION OR INFILTRATION, OR THE TEST SHALL BE CONSIDERED FAILED. IF THE TEST FAILS, THE CONTRACTOR SHALL REPAIR OR WATERPROOF AND RE-TEST AT NO EXTRA EXPENSE TO THE OWNER.
2. DISTRIBUTION LINES TEST:
   THE ENGINEER MUST PERFORM A PRESSURE AND DISTRIBUTION TEST OF THE MOUND LATERALS BEFORE COVERING. AFTER DRILLING THE HOLES AS SPECIFIED, TEMPORARILY ROTATE THE LATERALS SO THAT THE HOLES POINT UPWARD. WHILE BEING PRESSURIZED BY THE PUMP STATION, THE HEIGHT OF THE WATER COLUMN BEING DISCHARGED FROM EACH HOLE WILL BE MEASURED TO VERIFY ADEQUATE PRESSURE AND EVEN DISTRIBUTION. WATER COLUMNS 2.3 FT OR HIGHER WILL CONSTITUTE A PASSING TEST. FOLLOWING THE DISCHARGE TEST ROTATE DOWN AND ADD ORIFICE SHEILDS.
3. PUMP STATION TEST:
   THE CONTRACTOR AND THE ENGINEER SHALL BE PRESENT DURING START-UP. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO PERFORM A FULL OPERATIONAL CHECK OF THE STATION, INCLUDING ALL FLOAT FUNCTIONS AND ALARM TESTING. THE PUMP SHALL BE FIELD-TESTED TO INSURE THE TESTED TO PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.

CONSTRUCTION REQUIREMENTS

1. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
2. PRIOR TO CONSTRUCTION, ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
3. PLOW THE AREA TO A DEPTH OF 7" - 8", PARALLEL TO THE LAND CONTOUR WITH THE PLOW THROWING THE SOIL UPSLOPE TO PROVIDE A PROPER INTERFACE BETWEEN THE FILL AND THE NATURAL SOIL. ONCE THE PLOWING OF THE LAND IS COMPLETED, THE AREA SHALL BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM ENTERING THE PLOWED AREA.
4. TO PREVENT COMPACTION, CONSTRUCTION EQUIPMENT SHALL NOT BE MOVED ACROSS THE PLOWED SURFACE OR THE EFFLUENT DISPERSAL AREA. HOWEVER, AFTER PLACEMENT OF A MINIMUM OF SIX (6) INCHES OF SAND FILL OVER THE PLOWED AREA, LOW GROUND PRESSURE CONSTRUCTION EQUIPMENT MAY BE DRIVEN OVER THE PROTECTED SURFACE TO EXPEDITE CONSTRUCTION. CONSTRUCTION AND/OR PLOWING SHALL NOT BE INITIATED WHEN THE SOIL MOISTURE CONTENT IS HIGH.
5. CONSTRUCTION SHOULD BE INITIATED IMMEDIATELY AFTER PREPARATION OF THE SOIL INTERFACE BY PLACING ALL OF THE SAND FILL NEEDED FOR THE MOUND TO THE DEPTH SHOWN ON THE PLANS. THIS DEPTH WILL PERMIT EXCAVATION OF THE TRENCHES TO ACCOMMODATE THE CRUSHED STONE AND DISTRIBUTION PIPING. AFTER THE TRENCHES ARE DUG, THE STONE SHALL BE PLACED INTO THE TRENCH, HAND LEVELED AND THE DISTRIBUTION PIPE INSTALLED. THE ENGINEER SHALL WITNESS THE TESTING OF THE DISTRIBUTION SYSTEM. AFTER THE TESTING IS COMPLETED AND THE CRUSHED STONE HAS BEEN COVERED WITH MIRAFI 140N FABRIC OR EQUAL, THE ENTIRE MOUND SHALL BE COVERED WITH TOPSOIL NATIVE TO THE SITE OR SOIL OF SIMILAR CHARACTERISTICS TO SUPPORT VEGETATION FOUND IN THE AREA. THE MINIMUM DEPTH OF THE COVER SHALL BE TWELVE (12) INCHES. NATIVE SOIL FROM THE SITE IS SUITABLE, PROVIDED THE TOP FOUR (4) INCHES OF COVER IS TOPSOIL. THE ENTIRE MOUND SHALL BE SEEDED, SODDED, OR OTHERWISE PROVIDED WITH VEGETATIVE COVER TO ASSURE STABILITY OF THE INSTALLATION.
6. THE FILL MATERIAL (MOUND SAND), FROM THE NATURAL SOIL (PLOWED) SURFACE TO THE TOP OF THE TRENCH, SHALL BE SAND WITH A SIEVE ANALYSIS MEETING ONE OF THE THREE GRADING REQUIREMENTS SHOWN IN THE DETAIL ON THIS SHEET. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FURNISH A CURRENT SIEVE ANALYSIS REPORT ON THE SAND TO BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
7. TRENCHES SHALL BE EXCAVATED INTO THE MOUND SAND AS SHOWN IN THE DETAIL ON THIS SHEET. THE BOTTOM OF THE TRENCHES SHALL BE ABSOLUTELY LEVEL, SIDE TO SIDE AND END TO END.
8. THE PRESSURE DISTRIBUTION PIPE SHALL BE RIGID PLASTIC PIPE, SCHEDULE 40, WITH DIAMETER AS INDICATED. THE PIPE SHALL HAVE A SINGLE ROW OF HOLES, SIZE AND SPACING AS INDICATED ON THE DETAIL SHEET, ALONG THE LENGTH OF THE PIPE WITH THE LAST HOLE IN THE ENDCAP. ALL LATERALS SHALL BE LAID LEVEL. ALL JOINTS AND CONNECTIONS SHALL BE SOLVENT-CEMENTED.
9. THE PRESSURE DISTRIBUTION PIPE SHALL BE PLACED ON 6 INCHES OF 3/4 TO 1-1/2 INCH WASHED CRUSHED STONE WITH THE HOLES DOWNWARD. THE WIDTH AND DEPTH OF THE CRUSHED STONE SHALL BE AS SHOWN ON THE PLANS. THE MATERIAL USED TO COVER THE TOP OF THE STONE SHALL BE MIRAFI 140N FABRIC OR EQUAL. BUILDING PAPER OR HAY WILL NOT BE ALLOWED.
10. THE AREA SURROUNDING THE MOUND SHALL BE GRADED TO PROVIDE DIVERSION OF SURFACE RUN-OFF WATERS.

INSPECTION REQUIREMENTS

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER & AUTHORIZED TOWN INSPECTOR A MINIMUM OF 24 HOURS IN ADVANCE FOR INSPECTION OF THE BOTTOM OF THE TRENCHES PRIOR TO PLACEMENT OF STONE AND PIPING.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER & AUTHORIZED TOWN INSPECTOR A MINIMUM OF 24 HOURS IN ADVANCE, AND THE INSPECTION OF THE SYSTEM PRIOR TO BACKFILLING, INCLUDING THE DISTRIBUTION BOX (LEVELNESS CHECK) & SEPTIC TANK.
3. PUMP STATIONS: WITNESSING OF PUMP ON, OFF AND ALARM OPERATION, CHECK OF PUMPING RATE AND EMERGENCY STORAGE VOLUME.
4. SEE "TESTING REQUIREMENTS" BELOW FOR ADDITIONAL INFORMATION
5. THIS DESIGN MUST BE INSPECTED BY O'LEARY-BURKE CIVIL ASSOCIATES, PLC PRIOR TO CONSTRUCTION. WITHIN 24 HOURS OF APPLICATION OF FERTILIZER, LIME, AND SEED, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF TWO TONS PER ACRE AS ORDERED BY THE ENGINEER.
   E) ALL TURF ESTABLISHMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 651.
   F) TOPSOIL SHALL BE STOCKPILED, SEEDED, AND MULCHED UNTIL REUSED. HAYBALES SHALL BE PLACED AND STAKED CONTINUOUSLY AROUND THE BOTTOM OF THE TOPSOIL PILES.

STAKE-OUT REQUIREMENTS

1. THE SEWAGE SYSTEM LOCATIONS SHALL BE STAKED OR VERIFIED BY O'LEARY-BURKE CIVIL ASSOCIATES, PLC PRIOR TO CONSTRUCTION.

OPERATION + MAINTENANCE RECOMMENDATIONS

1. THE SEPTIC TANK'S PURPOSE IS TO SETTLE OUT SOLIDS, CONTAIN THE SCUM AND PASS TREATED EFFLUENT. BACTERIA WITHIN THE SEPTIC TANK HELPS DECOMPOSE THE SOLIDS. SHOULD ANY SOLIDS PASS THROUGH THE SEPTIC TANK INTO THE SYSTEM, PREMATURE CLOGGING OF THE PIPING, STONE OR NATIVE SOIL BENEATH THE SYSTEM IS LIKELY TO OCCUR. ONLY HUMAN WASTES SHOULD ENTER THE SEWAGE SYSTEM, WATER USE SHOULD BE CONSERVATIVE AND CLEANING AGENTS CAN NOT ENTER THE SYSTEM, AS THEY KILL BACTERIA.
2. THE STATE FLOW FIGURES OF ARE BASED ON SHORT TERM PEAK USE PERIODS (IE. DAILY EVENTS). ACTUAL FLOWS FOR A 4 BEDROOM HOME SHOULD AVERAGE 175 - 225 GALLONS PER DAY.
3. ONCE PER YEAR, THE DEPTH OF SCUM AND SLUDGE IN THE SEPTIC TANK SHOULD BE MEASURED AND THE TANK SHALL BE PUMPED IF:
   A) THE SLUDGE LEVEL IS WITHIN 12 INCHES OF THE BOTTOM OF THE
   B) THE SCUM LAYER IS WITHIN 3 INCHES OF THE TOP OF THE OUTLET
   C) IF A OR B IS ANTICIPATED TO OCCUR PRIOR TO THE NEXT INSPECTION.
   D) IN ANY CASE, THE TANK SHALL BE PUMPED AT A MAXIMUM 5 YEAR INTERVAL.
4. ONCE PER YEAR, THE PUMP STATION SHOULD BE INSPECTED. ANY SOLIDS OR SLUDGE REMOVED.
5. ABOVE ITEMS 1 - 4 ARE INTENDED TO PROLONG THE LIFE OF THE SYSTEM, NOT GUARANTEE IT. A PROPERLY OPERATED & MAINTAINED SYSTEM GENERALLY FUNCTIONS PROPERLY FOR 8 - 25 YEARS.

GENERAL SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST AGENCY OF NATURAL RESOURCES STANDARDS, 10-STATE STANDARDS, AWWA STANDARDS, AND THESE PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER OR APPLY CALCIUM CHLORIDE OR SWEEP THE ROADWAY WITH A POWER BROOM AS DUST CONTROL.
3. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO OCTOBER 1 OF EACH YEAR. ANY DISTURBED AREAS OUTSIDE THE ROADWAY SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 15 DAYS. ANY WORK PERFORMED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH AND NETTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND REMULCHED AS SOON AS WEATHER PERMITS IN THE SPRING.
4. THE CONTRACTOR SHALL ENCLOSE THE TRUNKS OF LARGE TREES NEAR THE NEAR THE NEW CONSTRUCTION WITH SNOW FENCING TO PROTECT THE TREES FROM INJURY BY EQUIPMENT.
5. ALL SLOPES, DITCHES, AND DISTURBED AREAS SHALL BE GRADED SMOOTH AND BE FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
6. ALL FILL OR BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
7. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND BE SEEDED, FERTILIZED, LIMED, AND MULCHED IN ACCORDANCE WITH THE FOLLOWING:
   A) SEED MIXTURE IN ALL AREAS SHALL BE URBAN MIX CONFORMING TO THE TABLE TO THE RIGHT. FOR SEEDING BETWEEN SEPTEMBER 1 AND OCTOBER 1, WINTER RYE SHALL BE USED AT A RATE OF 100 LBS PER ACRE.
   B) FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE CONFORMING TO THE STATE FERTILIZER LAW AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. DRY FERTILIZER, IF USED, SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. LIQUID FERTILIZER, IF USED, SHALL BE APPLIED IN A 1-2-1 RATIO WITH THE MINIMUM RATE TO INCLUDE 100 POUNDS OF NITROGEN, 200 POUNDS OF PHOSPHATE, AND 100 POUNDS OF POTASH PER ACRE.
   C) LIMESTONE SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. THE LIMESTONE SHALL BE APPLIED AT A RATE OF ONE TON PER ACRE AS DIRECTED.
   D) WITHIN 24 HOURS OF APPLICATION OF FERTILIZER, LIME, AND SEED, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A RATE OF TWO TONS PER ACRE AS ORDERED BY THE ENGINEER.
   E) ALL TURF ESTABLISHMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 651.
   F) TOPSOIL SHALL BE STOCKPILED, SEEDED, AND MULCHED UNTIL REUSED. HAYBALES SHALL BE PLACED AND STAKED CONTINUOUSLY AROUND THE BOTTOM OF THE TOPSOIL PILES.

DATE			BY
SURVEY OBCA	☐ RECORD DRAWING ☐ PRELIMINARY ■ FINAL ☐ SKETCH/CONCEPT	HALL 2-LOT SBUDIVISION	DATE 08/22/18
DESIGN OBCA	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	4 BLAKEY ROAD UNDERHILL, VT	JOB# 2018-02
DRAWN DWB/GRT	13 CORPORATE DRIVE ESSEX JCT, VT PHONE: 878-9900 FAX: 878-9909 E-MAIL: oleca@oleary-burke.com	SEWAGE DISPOSAL PLAN + DETAILS	FILE 2018-02-52
CHECKED DWB			PLAN SHEET # 2
SCALE AS SHOWN			

STATE OF VERMONT — DAVID W. BURKE — 318 SW — REGISTERED PROFESSIONAL ENGINEER