

Proper Application of Drip Irrigation Systems: One Tool in the Toolbox

Seth L. Lajoie, R.S.

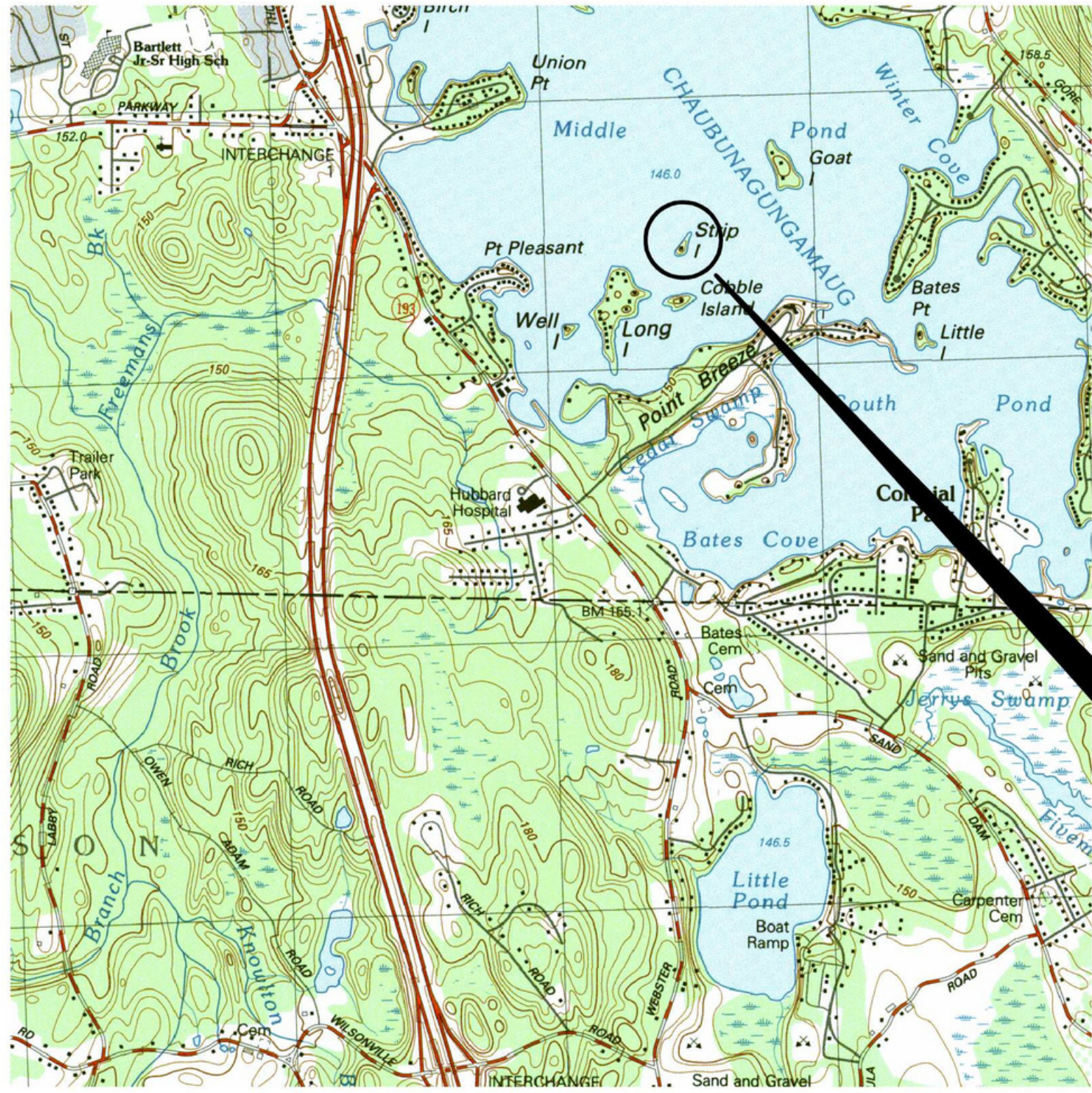
sethlajoie@gmail.com

When should a drip
irrigation system be
considered?

Case Study Number One

Strip Island, Webster,

MA



LOCUS

Limited Access for
Equipment and
Construction Materials
Plus Limited Usable
Land Area

DESIGN CRITERIA PROPOSED IN ACCORDANCE WITH THE PROVISIONS OF 310 CMR 15.405(1). CONTENTS OF LOCAL UPGRADE APPROVAL:

310 CMR 15.405(1)(c) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A SEWAGE DISPOSAL SYSTEM WITH UP TO A 25% REDUCTION IN THE REQUIRED LEACHING AREA.

310 CMR 15.405(1)(f) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A LEACH FIELD LESS THAN 50- FEET FROM SURFACE WATER. AN OFFSET DISTANCE OF 14' IS REQUESTED FROM THE PROPOSED SEPTIC TANK TO THE EDGE OF WEBSTER LAKE.

310 CMR 15.405(1)(f) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A SEPTIC TANK LESS THAN 25- FEET FROM SURFACE WATER. AN OFFSET DISTANCE OF 20' IS REQUESTED FROM THE PROPOSED SEPTIC TANK TO THE EDGE OF WEBSTER LAKE.

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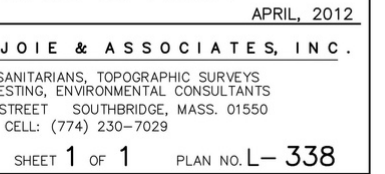
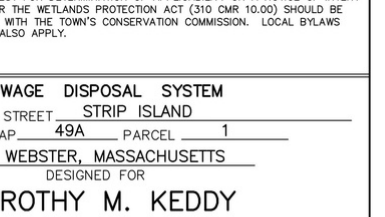
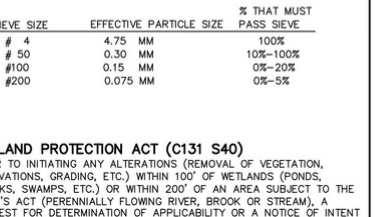
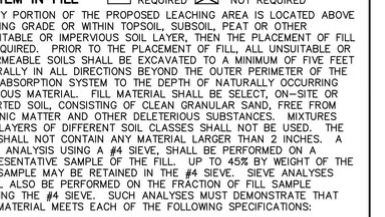
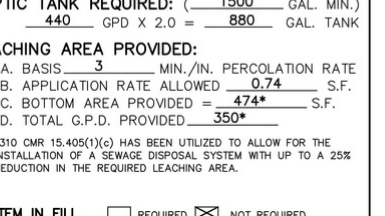
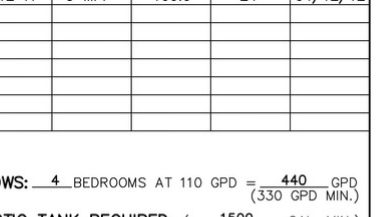
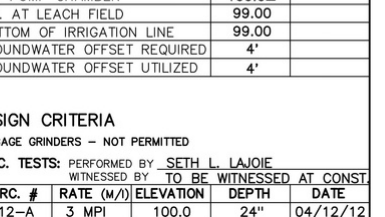
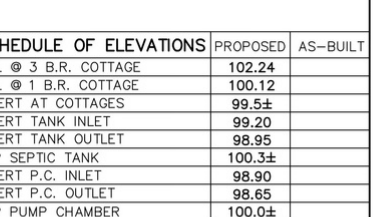
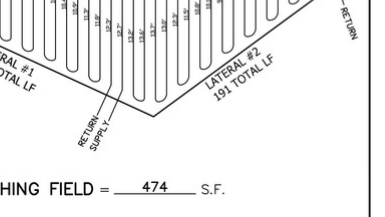
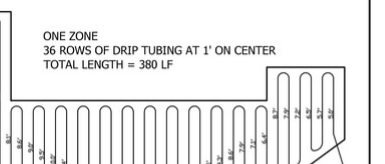
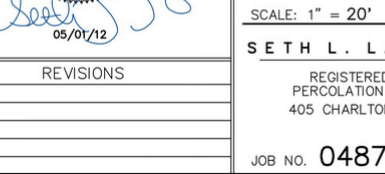
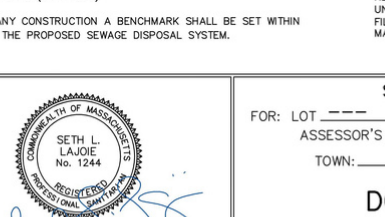
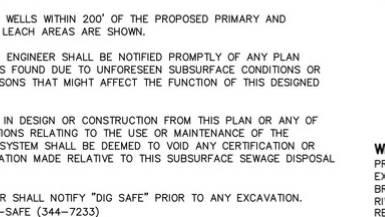
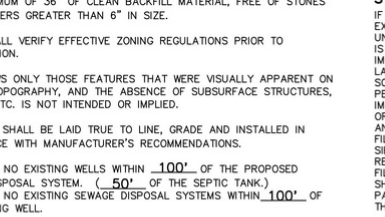
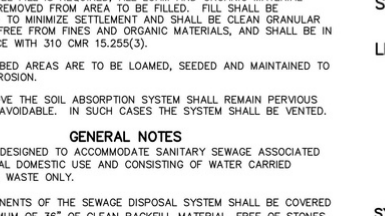
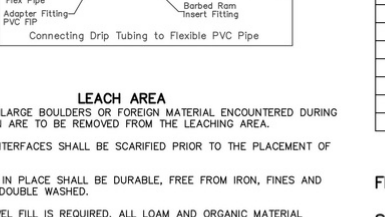
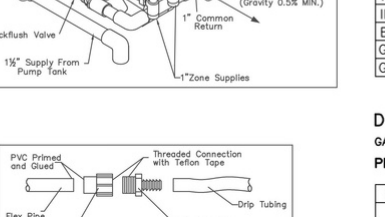
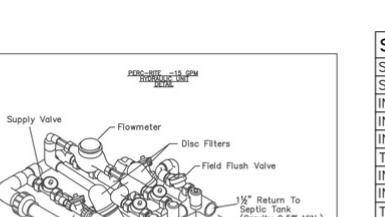
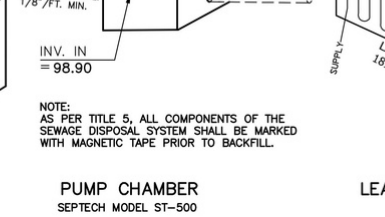
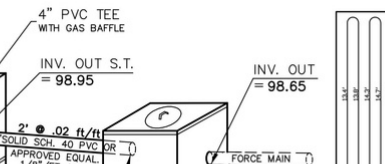
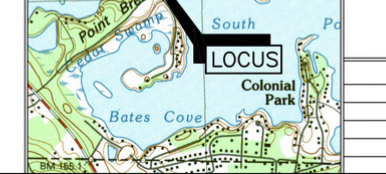
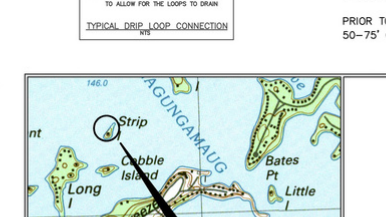
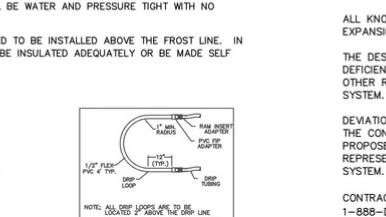
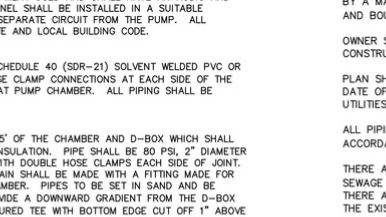
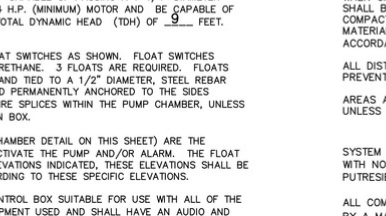
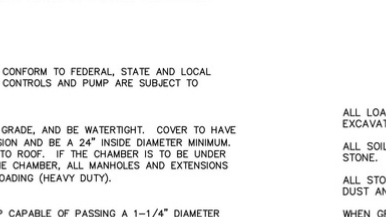
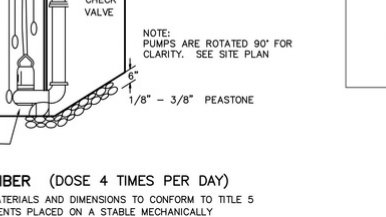
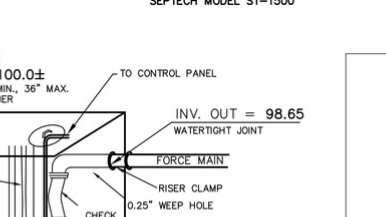
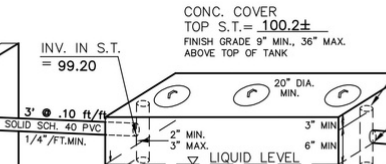
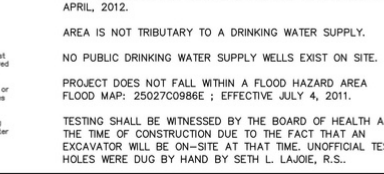
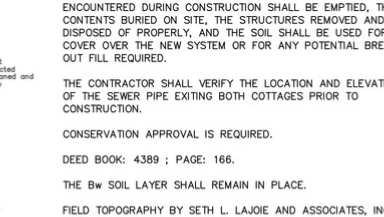
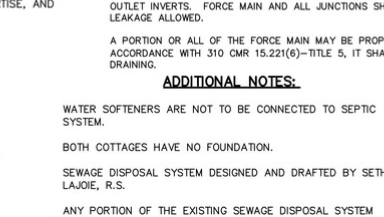
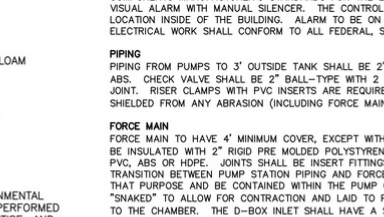
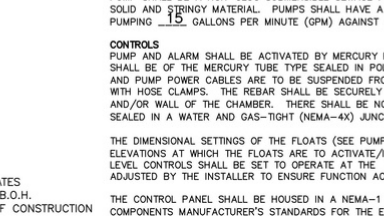
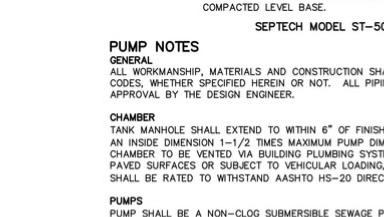
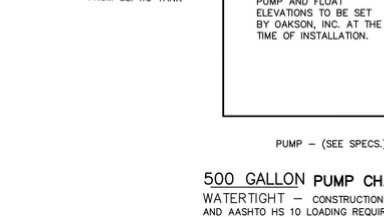
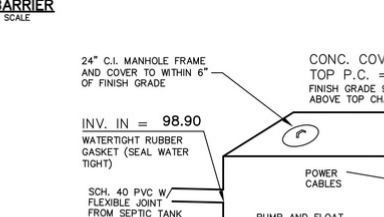
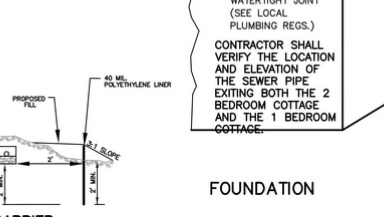
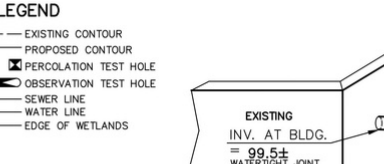
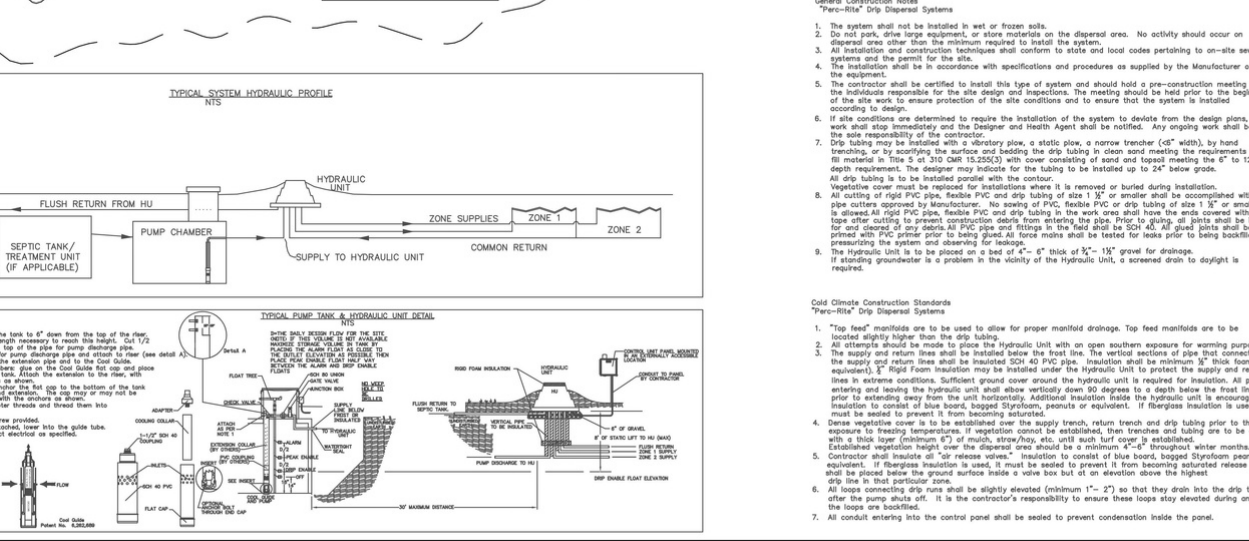
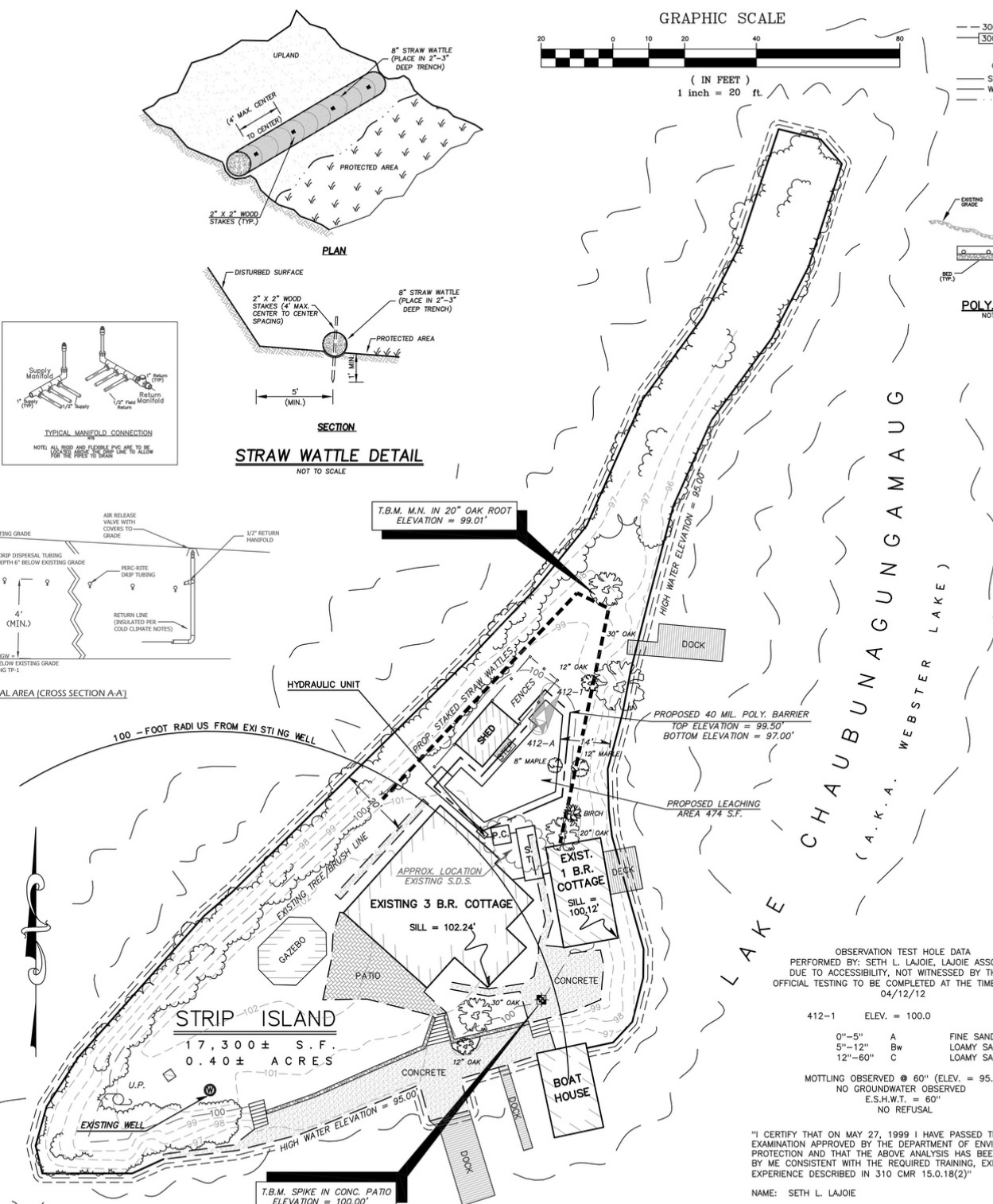
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SEWAGE DISPOSAL SYSTEM
 FOR: LOT --- STREET STRIP ISLAND
 ASSESSOR'S MAP 49A PARCEL 1
 TOWN: WEBSTER, MASSACHUSETTS
 DESIGNED FOR
DOROTHY M. KEDDY
 SCALE: 1" = 20' APRIL, 2012
SETH L. LAJOIE & ASSOCIATES, INC.
 REGISTERED SANITARIANS, TOPOGRAPHIC SURVEYS
 PERCOLATION TESTING, ENVIRONMENTAL CONSULTANTS
 405 CHARLTON STREET SOUTHBOROUGH, MASS. 01550
 CELL: (774) 230-7029
 JOB NO. 0487 SHEET 1 OF 1 PLAN NO. L-338

REVISIONS

| | |
|-----|-------------|
| NO. | DESCRIPTION |
| | |
| | |
| | |

DATE: 05/01/12



Pro's of the site:

- 1) It's Pretty
- 2) Gravely Soils = Good Percolation Rate
- 3) Easy Property Line Determination
- 4) Seasonal Application Allowing for the System to Rest.

Con's of the site:

- 1) Logistical Nightmare
- 2) Relatively High Water Table
- 3) Water, Water Everywhere

Case Study Number Two

105 Lakeshore Drive,

Georgetown, MA



LOCUS

Limited Usable Land
Area

Difficult Access for
Equipment

DESIGN CRITERIA PROPOSED IN ACCORDANCE WITH THE PROVISIONS OF 310 CMR 15.405(1). CONTENTS OF LOCAL UPGRADE APPROVAL:

310 CMR 15.405(1)(a) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A SEWAGE DISPOSAL SYSTEM LESS THAN 10- FEET FROM A PROPERTY LINE. AN OFFSET DISTANCE OF 6- FEET IS REQUESTED.

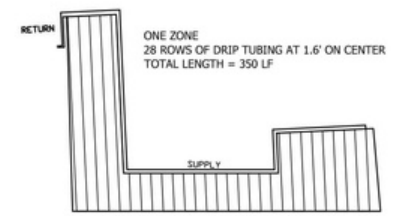
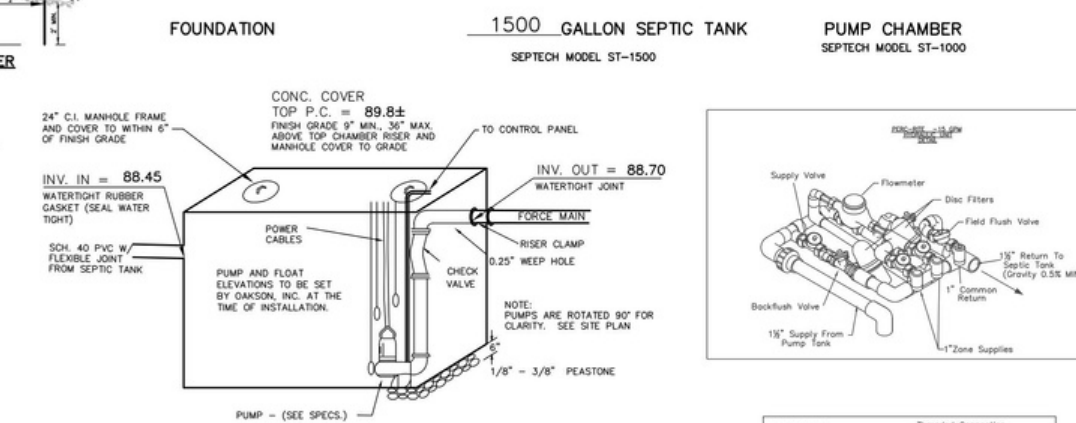
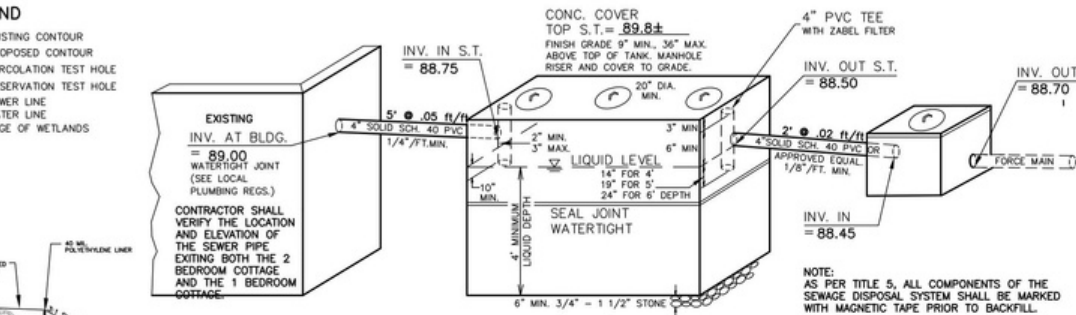
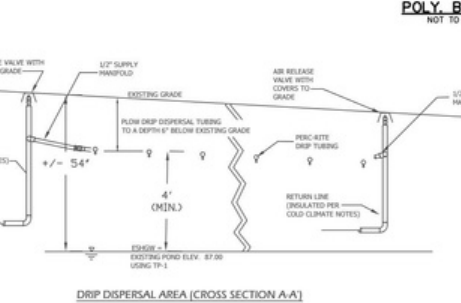
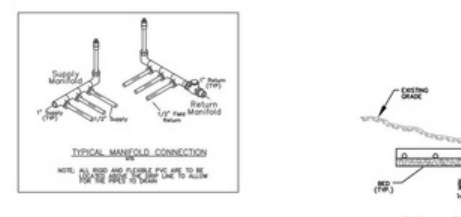
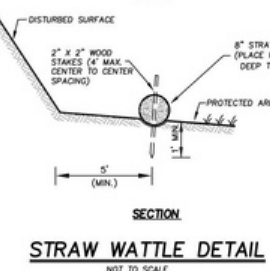
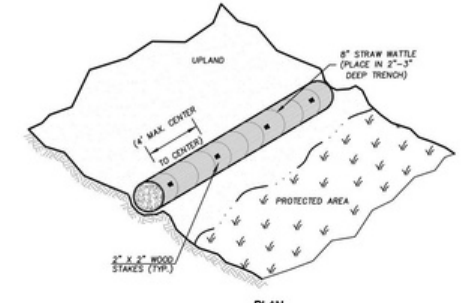
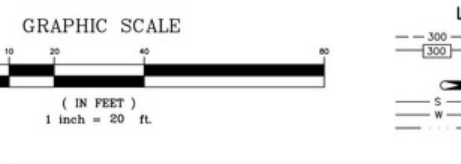
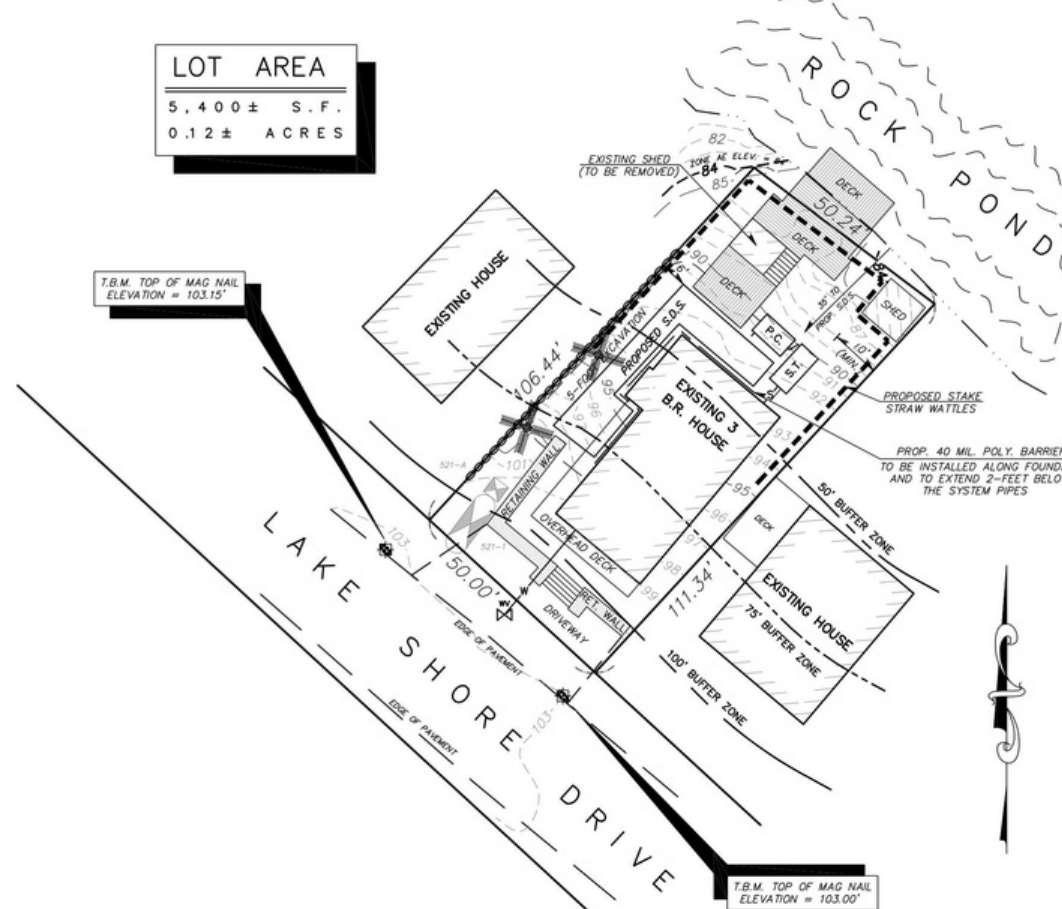
310 CMR 15.405(1)(b) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A SEWAGE DISPOSAL SYSTEM LESS THAN 10- FEET FROM A SLAB FOUNDATION. AN OFFSET DISTANCE OF 1- FEET IS REQUESTED.

310 CMR 15.405(1)(c) HAS BEEN UTILIZED TO ALLOW FOR THE INSTALLATION OF A LEACH FIELD LESS THAN 50- FEET FROM SURFACE WATER. AN OFFSET DISTANCE OF 35' IS REQUESTED FROM THE PROPOSED LEACH FIELD TO THE EDGE OF ROCK POND.

VARIANCE REQUESTED TO THE TOWN OF GEORGETOWN BOARD OF HEALTH REGULATIONS:

A VARIANCE IS REQUESTED TO ALLOW FOR TITLE 5 SIZING OF THE SEPTIC SYSTEM.

LOT AREA
5,400 ± S.F.
0.12 ± ACRES



LEACHING FIELD = 453 S.F.

| SCHEDULE OF ELEVATIONS | PROPOSED | AS-BUILT |
|--|----------------|----------|
| TOP CONCRETE FOUNDATION | VARIABLES | |
| INVERT AT HOUSE | EXISTING 89.00 | |
| INVERT TANK INLET | 88.75 | |
| INVERT TANK OUTLET | 88.50 | |
| TOP SEPTIC TANK | 89.8± | |
| INVERT P.C. INLET | 88.45 | |
| INVERT P.C. OUTLET | 88.70 | |
| TOP PUMP CHAMBER | 89.8± | |
| INV. AT LATERAL #1 | 96.00 | |
| BOTT. OF IRRIGATION LINES TO FOLLOW EXIST. GRADE | | |
| INV. AT LATERAL #2 | 91.00 | |
| BOTT. OF IRRIGATION LINES TO FOLLOW EXIST. GRADE | | |
| GROUNDWATER OFFSET REQUIRED | 4' | |
| GROUNDWATER OFFSET UTILIZED | 4'+ | |

DESIGN CRITERIA
GARBAGE GRINDERS - NOT PERMITTED

PERC. TESTS: PERFORMED BY SETH L. LAJOIE, WITNESSED BY JOSEPH SERWATKA

| PERC. # | RATE (M/IN) | ELEVATION | DEPTH | DATE |
|---------|-------------|-----------|-------|----------|
| 521-A | 3 MPI | 102.5 | 72" | 05/18/21 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

FLOWS: 3 BEDROOMS AT 165 GPD = 495 GPD (330 GPD MIN.)

SEPTIC TANK REQUIRED: (1500 GAL. MIN.) 330 GPD X 2.0 = 660 GAL. TANK

LEACHING AREA PROVIDED:

A. BASIS 3 MIN./IN. PERCOLATION RATE
B. APPLICATION RATE ALLOWED 0.74 S.F.
C. BOTTOM AREA PROVIDED = 453 S.F.
D. TOTAL G.P.D. PROVIDED 335

OBSERVATION TEST HOLE DATA
PERFORMED BY: SETH L. LAJOIE, LAJOIE ASSOCIATES
WITNESSED BY: JOSEPH SERWATKA, AGENT
05/18/2021

521-1 ELEV. = 102.5

| DEPTH | FILL |
|----------|-----------------|
| 0"-55" | FINE SANDY LOAM |
| 55"-62" | Ap |
| 62"-74" | Dw |
| 74"-124" | C |

NO MOTTILING OBSERVED TO 124" (ELEV. = 92.17)
NO GROUNDWATER OBSERVED
E.S.H.W.T. = POND ELEVATION 81.0
NO REFUSAL

"I CERTIFY THAT ON MAY 27, 1999 I HAVE PASSED THE EXAMINATION APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.018(2)"

NAME: SETH L. LAJOIE

- General Construction Notes**
- The system shall not be installed in wet or frozen soils.
 - Do not work, park large equipment, or store materials on the disposal area. No activity should occur on disposal area other than the minimum required to install the system.
 - All installation and construction techniques shall conform to state and local codes pertaining to on-site sewage systems and the permit for the site.
 - The installation shall be in accordance with specifications and procedures as supplied by the manufacturer of the equipment.
 - The contractor shall be certified to install this type of system and should have a pre-construction meeting with the individual responsible for the site observations. The meeting should be held prior to the beginning of the site work to ensure protection of the site conditions and to ensure that the system is installed according to plan.
 - If site conditions are determined to require the installation of the system to deviate from the design plan, all deviations shall be approved by the Designer and Municipality Agent. Any changing work shall be the site responsibility of the contractor.
 - Drain tubing may be installed with a minimum slope of 1/8" per foot. A narrow trencher (48" width), by hand, trenching, or by auguring the surface and bedding the drain tubing in clean sand meeting the requirements for that purpose and be contained within the pump chamber. PIPES TO BE SET IN SAND AND BE "SHAKED" TO ALLOW FOR CONTRACTION AND LAID TO PROVIDE A DOWNWARD GRADIENT FROM THE D-BOX TO THE CHAMBER. THE D-BOX INLET SHALL HAVE A SECURED TEE WITH BOTTOM EDGE CUT OFF 1" ABOVE OUTLET INVERTS. FORCE MAIN AND ALL JUNCTIONS SHALL BE WATER AND PRESSURE TIGHT WITH NO LEAKAGE ALLOWED.
 - A PORTION OR ALL OF THE FORCE MAIN MAY BE PROPOSED TO BE INSTALLED ABOVE THE FROST LINE, IN ACCORDANCE WITH 310 CMR 15.221(6)-TITLE 5, IT SHALL BE INSULATED ADEQUATELY OR BE MADE SELF DRAINING.
- Gold Glove Construction Standards**
- "The test" manholes are to be used to allow for proper installed drainage. Top feed manholes are to be located slightly higher than the drain tubing.
 - All cutting of rigid PVC pipe, flexible PVC and drip tubing of size 1/2" or smaller shall be accomplished with pipe cutters approved by manufacturer. No sawing of PVC, flexible PVC or drip tubing of size 1/2" or smaller is allowed. All rigid PVC pipe, flexible PVC and drip tubing in the work zone shall have the ends compressed with a pipe end compactor. Rigid PVC pipe and fittings in the work zone shall be cut with a hand saw and the ends compressed with a pipe end compactor. All pipe entering and leaving the hydraulic unit shall be cut with a hand saw and the ends compressed with a pipe end compactor. All pipe entering and leaving the hydraulic unit shall be cut with a hand saw and the ends compressed with a pipe end compactor. All pipe entering and leaving the hydraulic unit shall be cut with a hand saw and the ends compressed with a pipe end compactor.
 - Insulation to be installed in the work zone shall be installed in a minimum 4" x 4" throughout water months.
 - Contractor shall install a "top" release valve. In addition to control of the tank, trapped drainage permits, or equivalent. If fiberglass insulation is used, it must be sealed to prevent it from becoming saturated release valves shall be placed below the ground surface inside a wire box that is elevated above the ground.
 - All pipe connecting into the control panel shall be slightly elevated (minimum 1"-2") so that they drain into the drip tubing after the pump shuts off. It is the contractor's responsibility to ensure these traps stay elevated during and after the traps are installed.
 - All conduct entering into the control panel shall be sealed to prevent condensation inside the panel.

ADDITIONAL NOTES:

WATER SOFTENERS ARE NOT TO BE CONNECTED TO SEPTIC SYSTEM.

SEWAGE DISPOSAL SYSTEM DESIGNED AND DRAFTED BY SETH L. LAJOIE, R.S.

ANY PORTION OF THE EXISTING SEWAGE DISPOSAL SYSTEM ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT, REMOVED, AND THE EXCAVATION SHALL BE BACKFILLED WITH CLEAN SAND.

THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE SEWER PIPE EXTING THE BUILDING PRIOR TO CONSTRUCTION.

CONSERVATION APPROVAL IS REQUIRED.

DEED BOOK: 33345 | PAGE: 35.

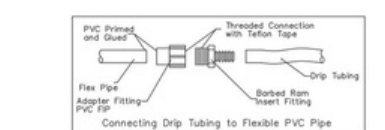
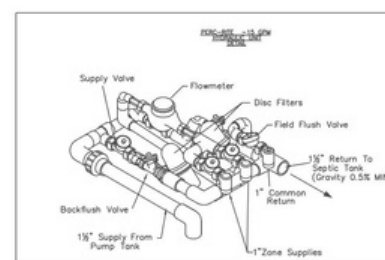
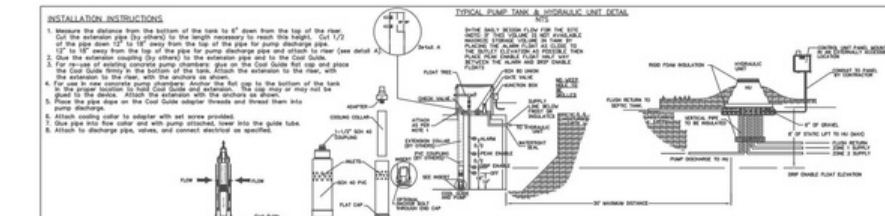
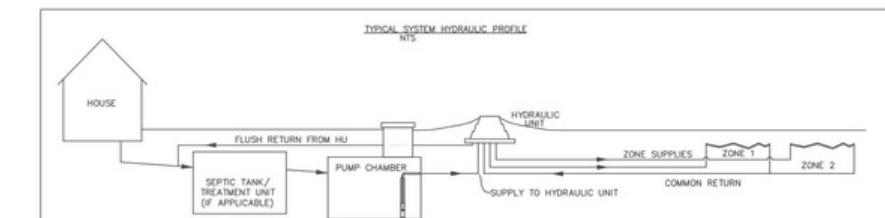
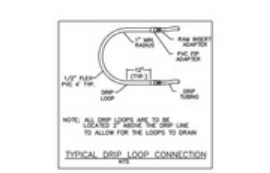
THE Bw SOIL LAYER SHALL REMAIN IN PLACE.

FIELD TOPOGRAPHY BY SETH L. LAJOIE AND ASSOCIATES, INC. JUNE, 2021.

AREA IS NOT TRIBUTARY TO A DRINKING WATER SUPPLY.

NO PUBLIC DRINKING WATER SUPPLY WELLS EXIST ON SITE.

PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD AREA



GENERAL NOTES

SYSTEM IS DESIGNED TO ACCOMMODATE SANITARY SEWAGE ASSOCIATED WITH NORMAL DOMESTIC USE AND CONSISTING OF WATER CARRIED PUTRESIBLE WASTE ONLY.

ALL COMPONENTS OF THE SEWAGE DISPOSAL SYSTEM SHALL BE COVERED BY A MAXIMUM OF 36" OF CLEAN BACKFILL MATERIAL, FREE OF STONES AND BOULDERS GREATER THAN 6" IN SIZE.

OWNER SHALL VERIFY EFFECTIVE ZONING REGULATIONS PRIOR TO CONSTRUCTION.

PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON DATE OF TOPOGRAPHY, AND THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. IS NOT INTENDED OR IMPLIED.

ALL PIPING SHALL BE LAID TRUE IN LINE, GRADE AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THERE ARE NO EXISTING WELLS WITHIN 100' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM. (50' OF THE SEPTIC TANK).

THERE ARE NO EXISTING SEWAGE DISPOSAL SYSTEMS WITHIN N/A' OF THE EXISTING WELL.

TOWN WATER PROVIDED.

ALL KNOWN WELLS WITHIN 200' OF THE PROPOSED PRIMARY AND EXPANSION LEACH AREAS ARE SHOWN.

THE DESIGN ENGINEER SHALL BE NOTIFIED PROMPTLY OF ANY PLAN DEFICIENCIES FOUND DUE TO UNFORESEEN SUBSURFACE CONDITIONS OR OTHER REASONS THAT MIGHT AFFECT THE FUNCTION OF THIS DESIGNED SYSTEM.

DEVIATIONS IN DESIGN OR CONSTRUCTION FROM THIS PLAN OR ANY OF THE CONDITIONS RELATING TO THE USE OR MAINTENANCE OF THE PROPOSED SYSTEM SHALL BE DEEMED TO VOID ANY CERTIFICATION OR REPRESENTATION MADE RELATIVE TO THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM.

CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION. 1-888-DIG-SAFE (344-7233)

PRIOR TO ANY CONSTRUCTION A BENCHMARK SHALL BE SET WITHIN 50-75' OF THE PROPOSED SEWAGE DISPOSAL SYSTEM.

WETLAND PROTECTION ACT (C131 S40)

PRIOR TO INITIATING ANY ALTERATIONS (REMOVAL OF VEGETATION, EXCAVATIONS, GRADING, ETC.) WITHIN 100' OF WETLANDS (PONDS, BROOKS, SWAMPS, ETC.) OR WITHIN 200' OF AN AREA SUBJECT TO THE RIVER'S ACT (PERENNIALY FLOWING RIVER, BROOK OR STREAM), A REQUEST FOR DETERMINATION OF APPLICABILITY OR A NOTICE OF INTENT UNDER THE WETLANDS PROTECTION ACT (310 CMR 10.00) SHOULD BE FILED WITH THE TOWN'S CONSERVATION COMMISSION. LOCAL BYLAWS MAY ALSO APPLY.

| SEIVE SIZE | EFFECTIVE PARTICLE SIZE | % THAT MUST PASS SEIVE |
|------------|-------------------------|------------------------|
| # 4 | 4.75 MM | 100% |
| # 50 | 0.30 MM | 10%-100% |
| #100 | 0.15 MM | 0%-20% |
| #200 | 0.075 MM | 0%-5% |

SEWAGE DISPOSAL SYSTEM

FOR: LOT --- STREET 105 LAKE SHORE DRIVE

ASSESSOR'S MAP 21 PARCEL 9

TOWN: GEORGETOWN, MASSACHUSETTS

DESIGNED FOR

JUSTIN P. MCCARTHY

SCALE: 1" = 20' OCTOBER, 2021

SETH L. LAJOIE & ASSOCIATES, INC.

REGISTERED SANITARIANS, TOPOGRAPHIC SURVEYS
PERCOLATION TESTING, ENVIRONMENTAL CONSULTANTS
27 BECKET STREET SALEM, MA 01970
CELL: (774) 230-7029

JOB NO. 0989 SHEET 1 OF 1 PLAN NO. L-768

REVISIONS

10/25/21 - ORIGINAL ENDORSEMENT
01/20/22 - POLY BARRIER ADDED
CHANGED TO TITLE 5 SIZING



Pro's of the site:

- 1) Gravely Soils = Good Percolation Rate
- 2) The house is on the water in Georgetown. (It's a high-value property)

Con's of the site:

- 1) Logistical Nightmare
- 2) Unknown amount of fill
- 3) Neighbors

Thank You for Your
Time and Attention.

Questions?