



**NOTICE OF PUBLIC MEETING
SUDBURY CONSERVATION COMMISSION**

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability (RDA) filing, under the State Act and local Wetland Bylaw to replace a failed septic system within the 100' buffer zone at 26 Country Village Lane, in Sudbury, MA. Thomas Lopez, applicant. The hearing will be held on Mon., March 23, 2020 at 6:45 pm, at the Lower Town Hall, 322 Concord Road, Sudbury MA. Copies of the application may be reviewed at the Conservation Office at 275 Old Lancaster Rd, Sudbury MA, during business hours.

SUDBURY CONSERVATION COMMISSION
March 2, 2020



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

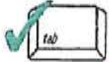
WPA Form 1- Request for Determination of Applicability

City/Town _____

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Thomas Lopez

Name

E-Mail Address _____

26 Country Village Ln

Mailing Address

Sudbury

City/Town

MA

01776

State

Zip Code

978-761-7082

Phone Number

Fax Number (if applicable) _____

2. Representative (if any):

Sullivan Connors

Firm

Michael Sullivan

Contact Name

mjs@sca121.com

E-Mail Address

121 Boston Post Rd

Mailing Address

Sudbury

City/Town

MA

01776

State

Zip Code

978-443-9566

Phone Number

Fax Number (if applicable) _____

B. Determinations

1. I request the Sudbury _____ make the following determination(s). Check any that apply:
Conservation Commission

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Sudbury

Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).

3/23



WPA Form 1- Request for Determination of Applicability

City/Town

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

26 Country Village Ln

Sudbury

Street Address

City/Town

6/815

Assessors Map/Plat Number

Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

Single family dwelling on the corner of Old Forge Ln and Country Village Ln. The lot is .72 acres in size. There is a resource area in the south east portion of the lot

c. Plan and/or Map Reference(s):

Proposed Sewage Disposal Plan 26 Country Village Ln

1/9/20

Title

Date

Title

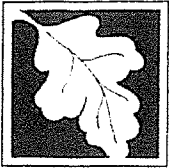
Date

Title

Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Repair a failed septic system. The proposed septic system consists of a 1500 gal double compartment septic tank and 3 leaching galleys encased in 3 ft of stone. The only work within the 100 ft buffer is replacing the septic tank which will be 79 ft from the resource area. The leaching facility will be outside the buffer.



C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 1- Request for Determination of Applicability

City/Town _____

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Thomas Lopez

Name

26 Country Village Ln

Mailing Address

Sudbury

City/Town

ma

State

01776

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

DS Mayo, Agent for Owner
Signature of Applicant
SULLIVAN, CONNORS & ASSOC., INC

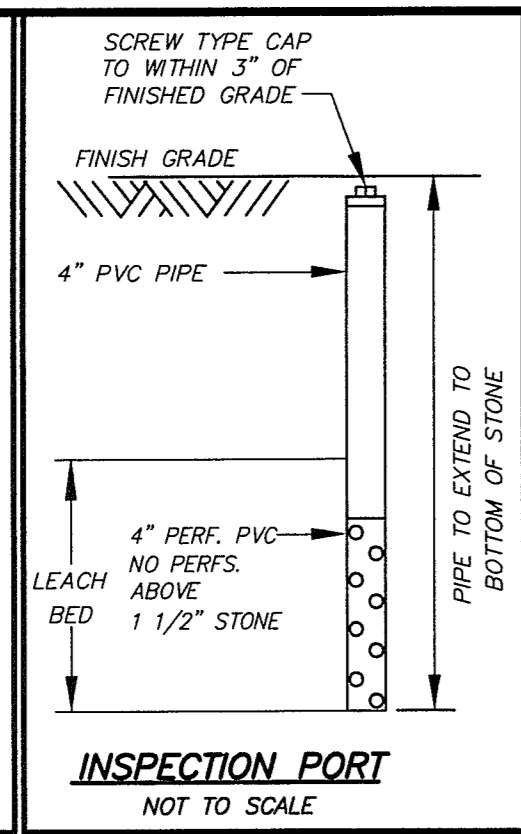
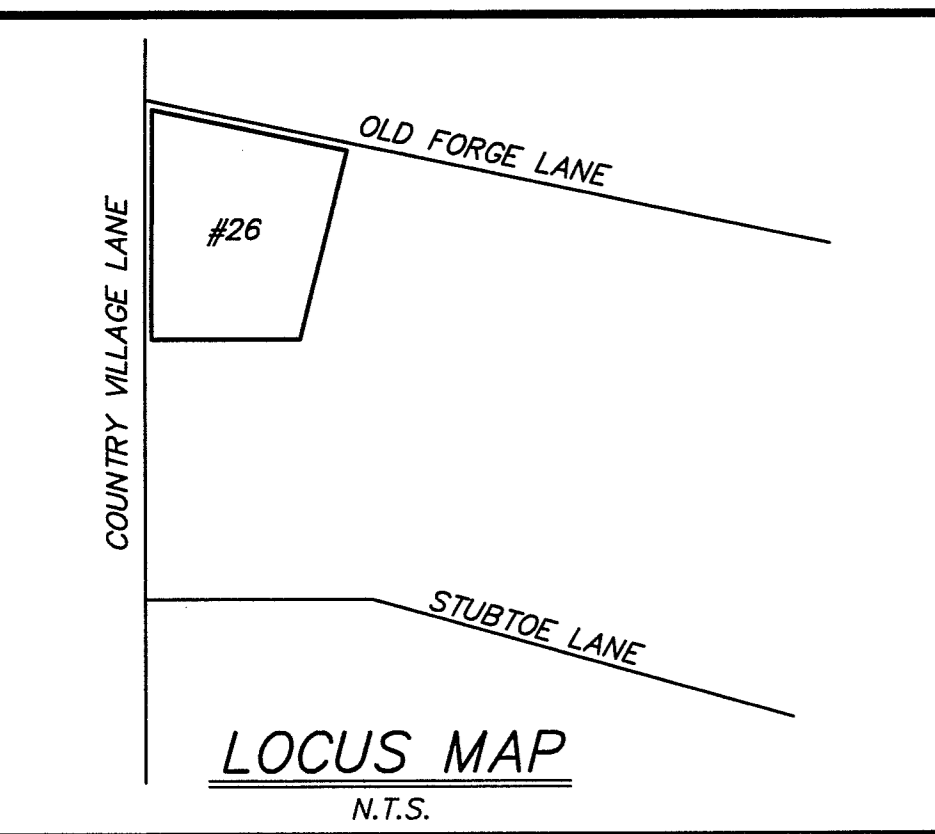
3/6/20

Date

DS Mayo
Signature of Representative (if any)

3/6/20

Date



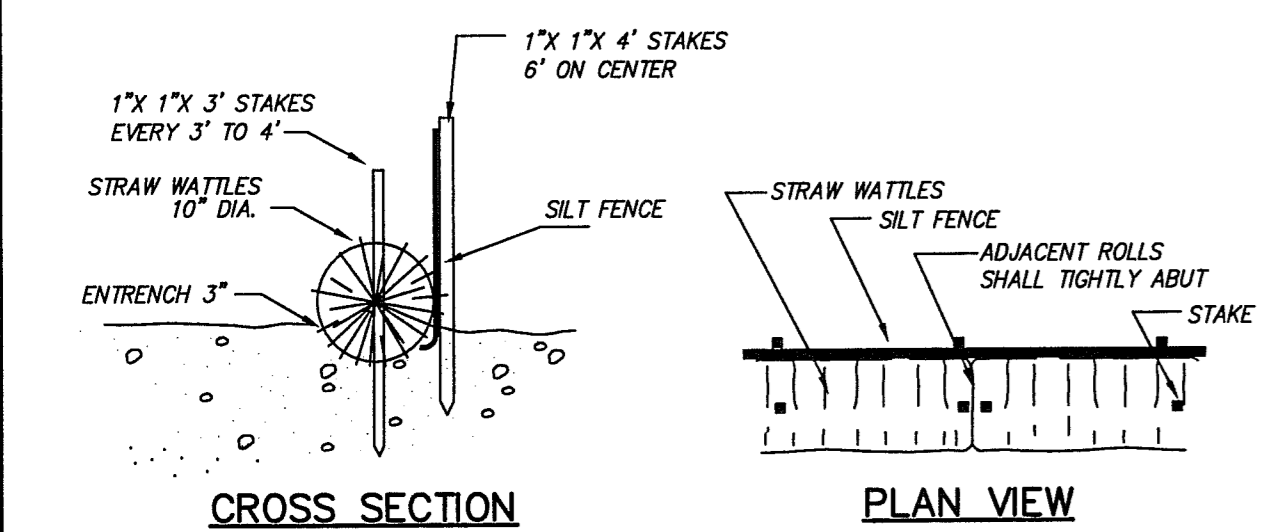
SCHEDULE OF ELEVATIONS

TOP OF FOUNDATION T.C. =	203.25
CONTRACTOR TO CONFIRM INVERTS PRIOR TO CONSTRUCTION	
INVERT OF PIPE AT FOUNDATION =	198.15±
INVERT AT SEPTIC TANK INLET =	198.0
INVERT AT SEPTIC TANK OUTLET =	197.8
INVERT AT DISTRIBUTION BOX INLET =	197.6
INVERT AT DISTRIBUTION BOX OUTLET =	197.4
INVERT AT LEACHING GALLEY (IN) =	197.2
ELEVATION OF GALLEY BOTTOM =	195.2
FINISH GRADE OVER LEACHING AREA =	200±

DESIGN CRITERIA

- ESTIMATED FLOW = 4 BDRMS X 110 GPD/BR=440 GPD
- DESIGN PERCOLATION RATE = 3 MPI
- LEACHING AREA CALCULATION =
 $SA = 2(2 \times (11.7' \times 38.5')) = 200 \text{ SF} > 650 \text{ SF} (0.74 \text{ GPD/SF}) = 481 \text{ GPD}$
 $BA = 11.7' \times 38.5' = 450 \text{ SF}$

- LOCAL UPGRADE APPROVALS REQUIRED:**
- LEACH SYSTEM SEPARATION TO FOUNDATION LESS THAN 20' (16.5' PROPOSED). 15.405:(1)(a).
 - LEACH TRENCH SEPARATION TO E.S.H.G.W. LESS THAN 4' (3' PROPOSED). 15.405:(1)(h)2.

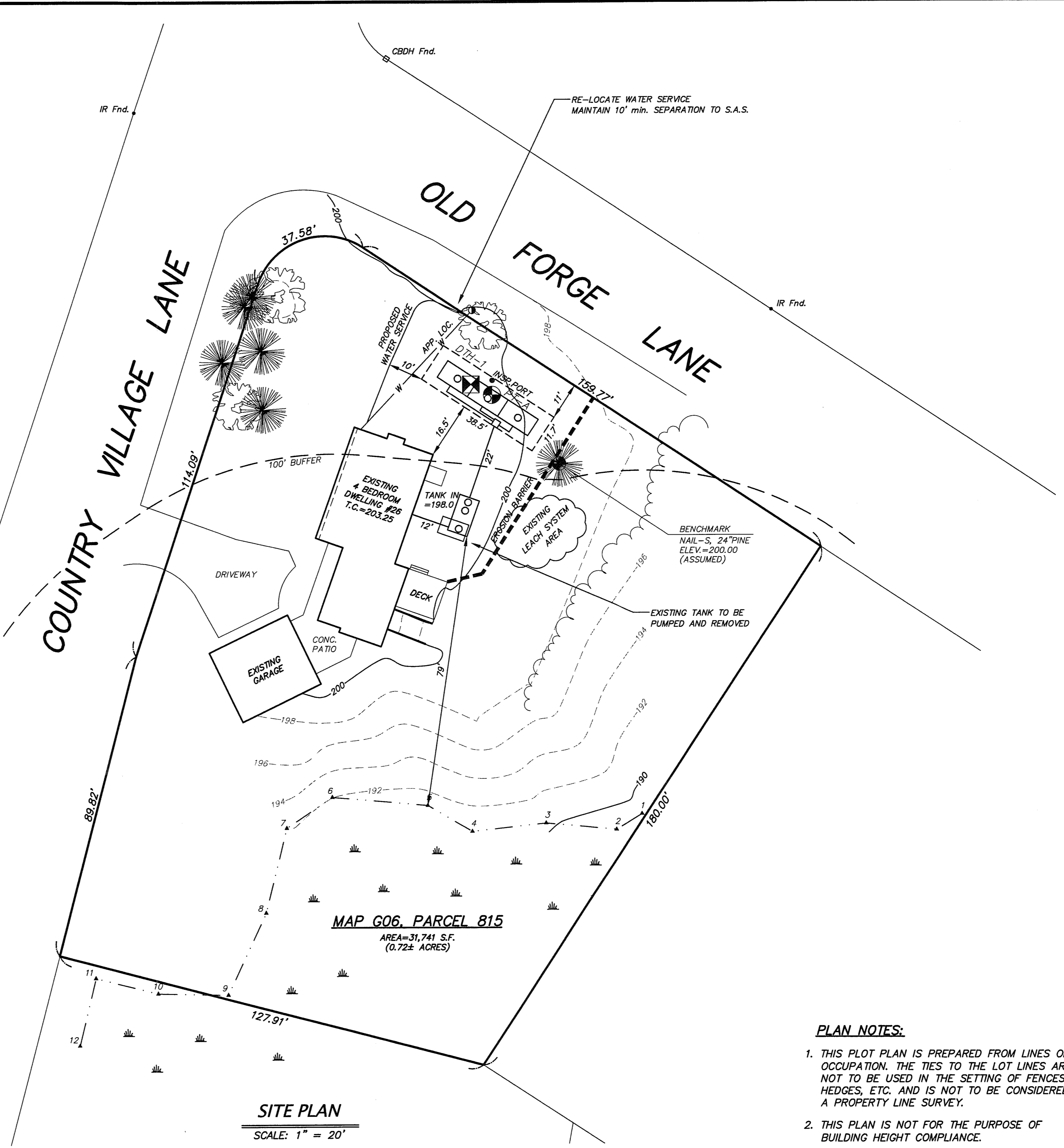


EROSION BARRIER
NOT TO SCALE

NOTES:

- STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" DEEP. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.
- INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

PLAN No. 1634 OF 1956



PLAN NOTES:

- THIS PLOT PLAN IS PREPARED FROM LINES OF OCCUPATION. THE TIES TO THE LOT LINES ARE NOT TO BE USED IN THE SETTING OF FENCES, HEDGES, ETC. AND IS NOT TO BE CONSIDERED A PROPERTY LINE SURVEY.
- THIS PLAN IS NOT FOR THE PURPOSE OF BUILDING HEIGHT COMPLIANCE.

- GENERAL NOTES:**
- Contractor shall call Digsafe at (888) 344-7233 a minimum of 72 hours prior to commencing any construction activities on site.
 - Inspections by Design Engineer and Board of Health are as required by the Board of Health.
 - This plan was prepared for the design of the subsurface sewage disposal system only and is based on the subsurface explorations and percolation tests listed below.
 - System was designed only to accommodate sanitary sewage associated with normal domestic usage, consisting of water carried putrescible waste, and for flows indicated in the design criteria.
 - The system must be vented through the buildings plumbing in accordance with the state building code.
 - Plans show any features that were visually apparent on the date of the topographic survey and the absence of subsurface structures, utilities, etc. is not guaranteed.
 - Contractor to determine if site conditions are suitable for construction of proposed system, and must promptly notify the Design Engineer and Owner, in writing, of any plan deficiencies, unforeseen subsurface conditions, or required changes.
 - There are no wells located within 100 feet of the proposed leaching area or within 100 feet of the proposed septic tank (except as shown).
 - The subject property is located within a Zone II of a public drinking water supply well.
 - All construction is to conform to the requirements of the Massachusetts Environmental Code, Title V, and the town of Sudbury Board of Health regulations.
 - There are no bordering vegetated wetlands, inland banks, or surface waters within 100' of the proposed system.
 - There are no surface or subsurface drains which are used to lower the ground water.
 - All elevations refer to TBM 24, PINE NAIL, EL=200.0
 - For proper performance, septic tank should be pumped annually.
 - System cannot be backfilled or concealed until design firm and board of health have inspected the system and permission to backfill has been given.
 - Design firm must prepare and submit "As-Built" plan to Board of Health. This plan must certify that the system was installed in accordance with state and local regulations and that it complies with the proposed plan.
 - Property lines are approximate and are not to be used for boundary survey purposes. Surface features and topography outside of work area are approximate.
 - System is not designed to accommodate a garbage grinder.

- TECHNICAL NOTES:**
- Building sewer shall be in accordance with state plumbing code and have a minimum of 4" of cover in landscaped areas. A minimum of 12" of cover and/or appropriate sleeving shall be used in areas subject to vehicular traffic.
 - All tanks, including septic tanks, distribution boxes, dosing chambers, and grease traps shall be either watertight, through manufacturer's specification and warranty, or made watertight by the manufacturer or other individual by means and persons as approved in 310 CMR 15.221. Septic tank shall be constructed and placed in accordance with 310 CMR 15.223 through 310 CMR 15.228.
 - Septic tanks shall have at least three (3) 20" manholes with at least one (1) of these manholes located no more than 6" below finish grade. (Systems over 1,000 gpd shall have access ports at both the inlet and outlet tees.)
 - Distribution box ("d-box") shall be of watertight construction, installed level on a firm base, and installed in accordance with 310 CMR 15.232.
 - Septic tank covers and d-box are to be brought within 6" and 9" of finish grade respectively by the use of riser sections.
 - When the soil absorption system (SAS) is to be dosed or the slope of the inlet pipe exceeds 0.08 feet per foot, an inlet tee, baffle or splash plate extending to one inch above the outlet invert elevation shall be provided to dissipate velocity of the influent.
 - When the SAS is installed within the top and subsoil layers or above natural grade, all topsoil and subsoil shall be removed below and laterally a minimum of 5 feet surrounding the SAS. Removed material shall be replaced with clean granular material in accordance with 310 CMR 15.255(3).
 - All disturbed areas shall be loamed, seeded, and maintained so as to prevent erosion.
 - All native soil interfaces which will contact the SAS shall be scarified prior to placement of stone.

PERCOLATION TESTS

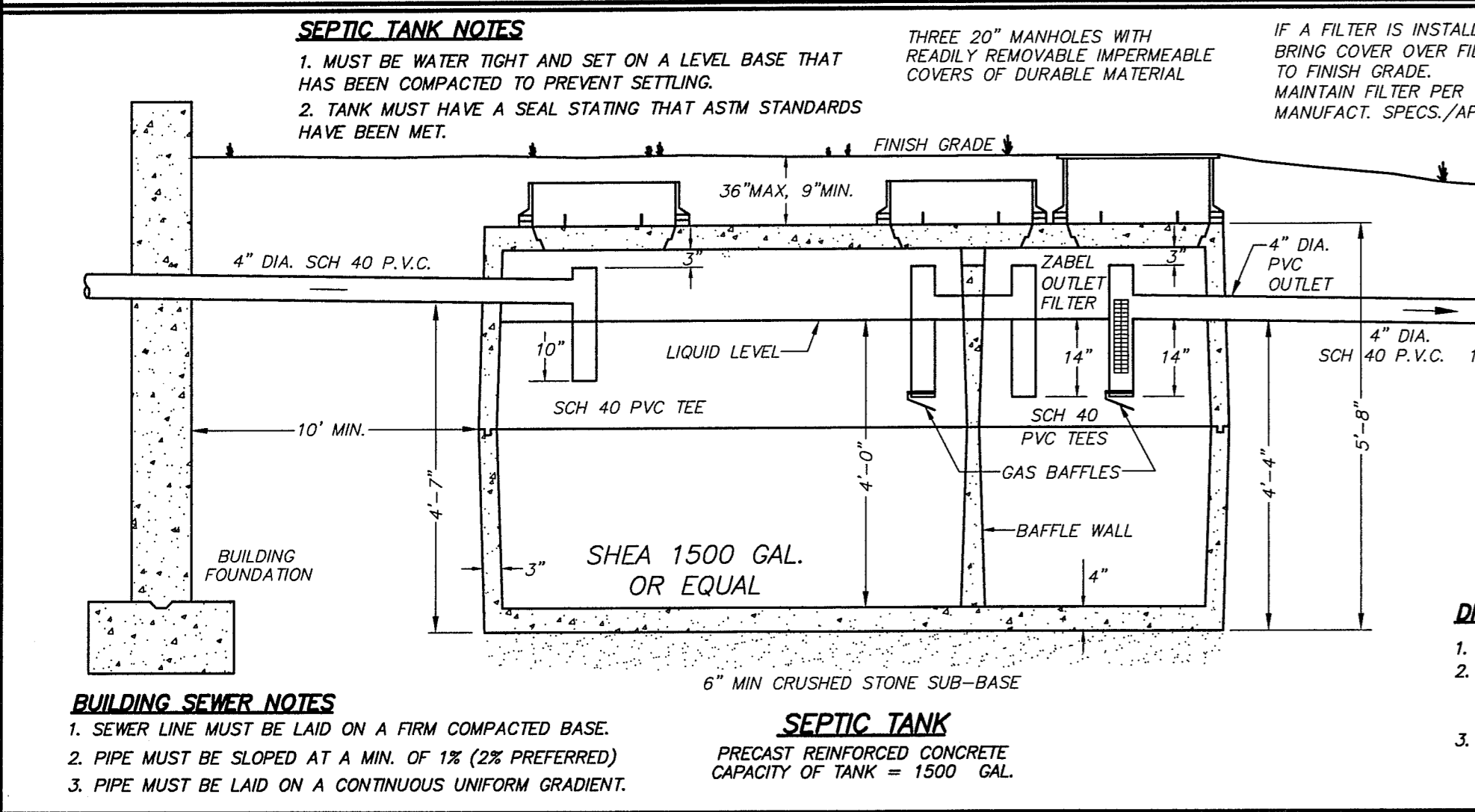
HOLE NO. & DATE	TOP ELEVATION	DEPTH (In.)	SATURATION (Min.)	12"-9" DROP (Min.)	9"-6" DROP (Min.)	PERC. RATE (Min./In.)
PT-A 12/13/19	200.2	55"	15 MIN.	7 MIN.	8 MIN.	3 MIN/IN

DEEP OBSERVATION HOLE LOG

NO. & ELEV.	DEPTH (m.)	SOIL HORIZON	TEXTURE (USDA)	COLOR (MUNSELL)	SOIL MOTTLING	OTHER
DTH-1	0-10"	Ap	SANDY LOAM	10YR3/2		
12/13/19	10-37"	Bw	LOAMY SAND	10YR6/8		
200.2	37-120"	C1	MED. SAND	10YR7/1	96"	

PARENT MATERIAL: GLACIAL TILL DEPTH TO BEDROCK: - STANDING WATER: 107" WEeping FROM PIT FACE: - ESHWT: 192.2

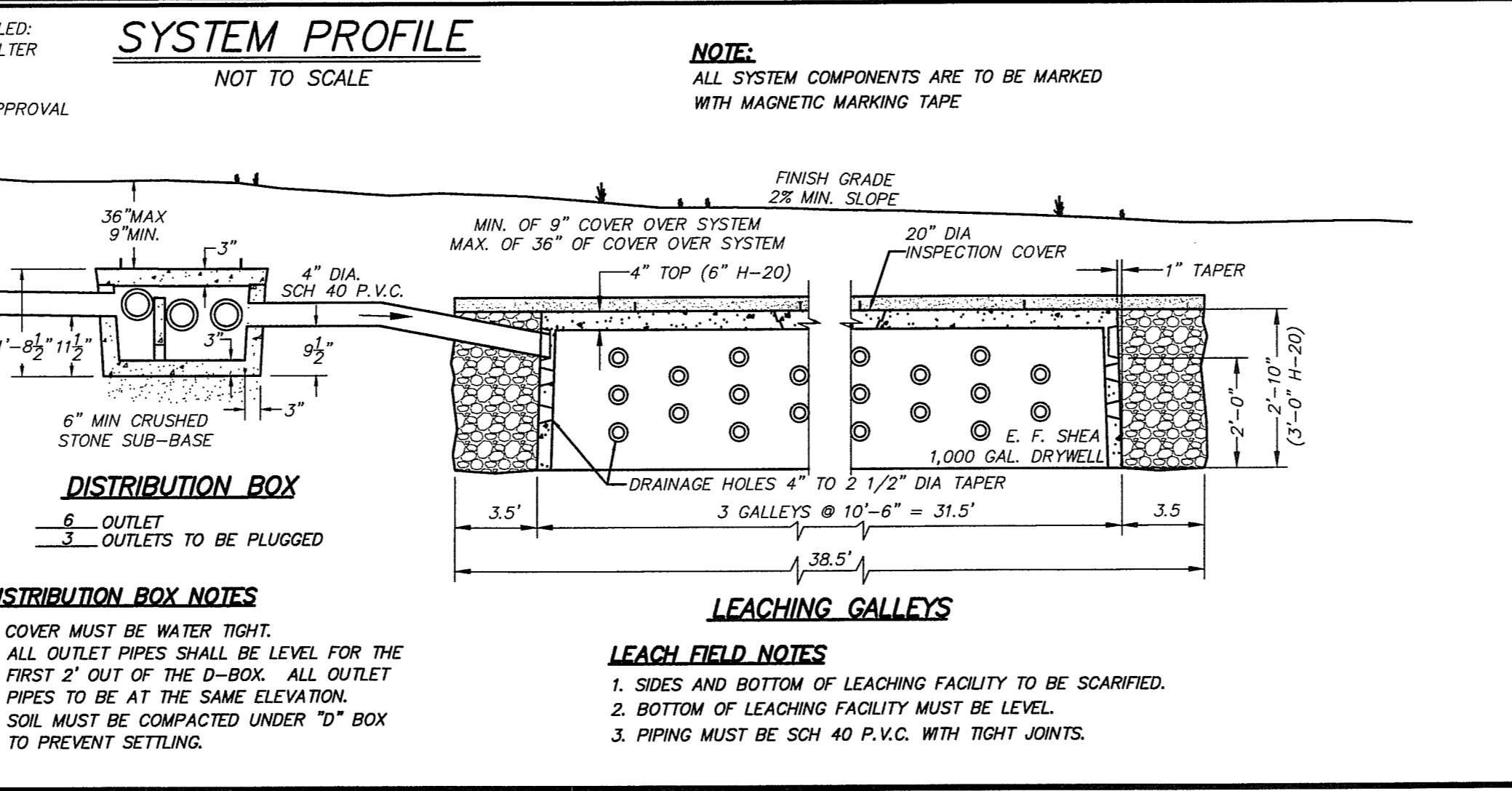
TESTS CONDUCTED BY: MIKE SULLIVAN
 TESTS OBSERVED BY: BILL MURPHY DATE: 12/13/19



SEPTIC TANK
PRECAST REINFORCED CONCRETE CAPACITY OF TANK = 1500 GAL.

SEPTIC TANK NOTES

- MUST BE WATER TIGHT AND SET ON A LEVEL BASE THAT HAS BEEN COMPACTED TO PREVENT SETTLING.
- TANK MUST HAVE A SEAL STATING THAT ASTM STANDARDS HAVE BEEN MET.

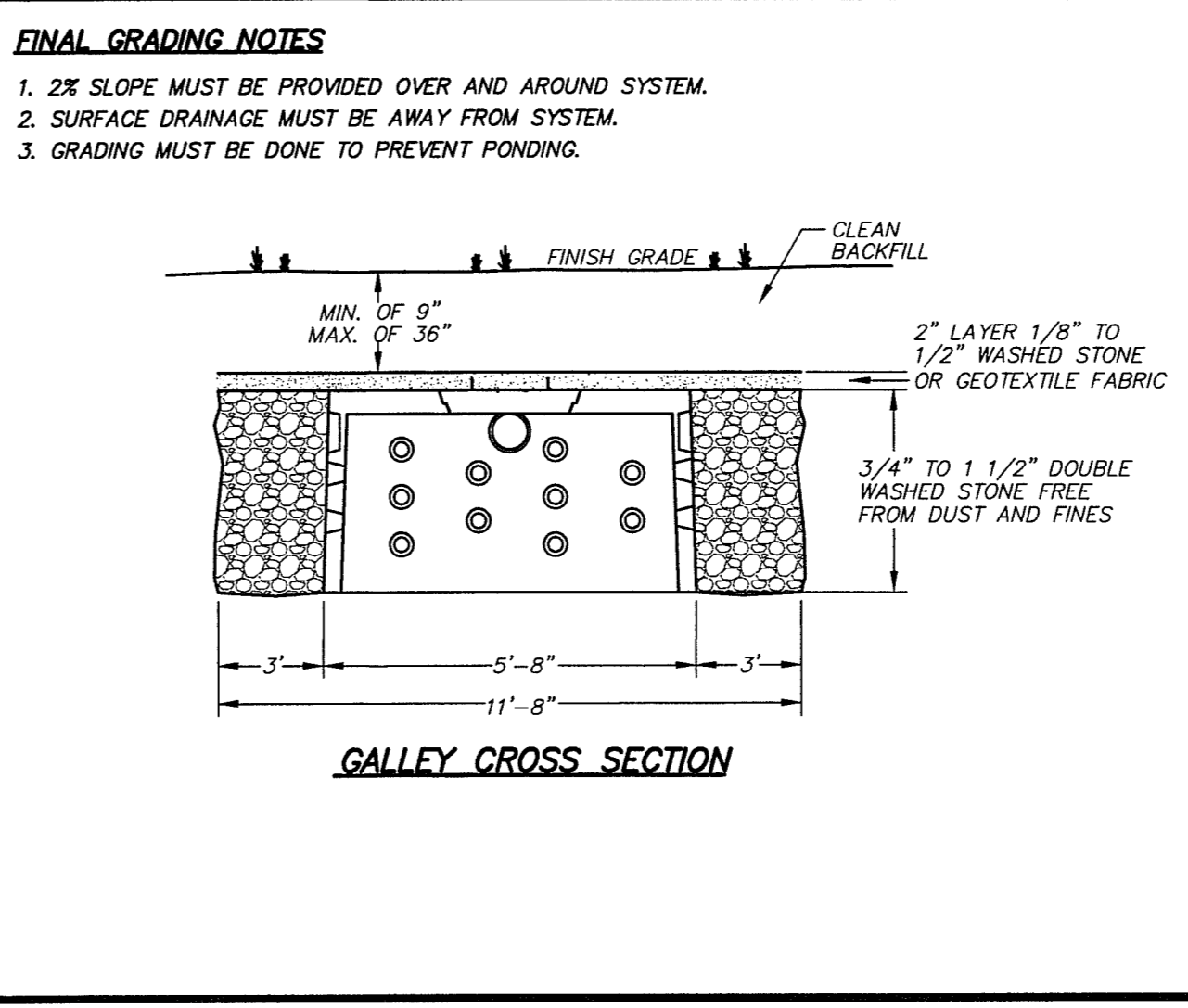


DISTRIBUTION BOX NOTES

- COVER MUST BE WATER TIGHT.
- ALL OUTLET PIPES SHALL BE LEVEL FOR THE FIRST 2' OUT OF THE D-BOX. ALL OUTLET PIPES TO BE AT THE SAME ELEVATION.
- SOIL MUST BE COMPACTED UNDER "D" BOX TO PREVENT SETTLING.

LEACH FIELD NOTES

- SIDES AND BOTTOM OF LEACHING FACILITY TO BE SCARIFIED.
- BOTTOM OF LEACHING FACILITY MUST BE LEVEL.
- PIPING MUST BE SCH 40 P.V.C. WITH TIGHT JOINTS.



FINAL GRADING NOTES

- 2% SLOPE MUST BE PROVIDED OVER AND AROUND SYSTEM.
- SURFACE DRAINAGE MUST BE AWAY FROM SYSTEM.
- GRADING MUST BE DONE TO PREVENT PONDING.

I certify that 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).

Certified: **2374**

APPLICANT THOMAS & NANCY LOPEZ	LOCATION 26 COUNTRY VILLAGE LANE SUDBURY, MA ASSESSORS MAP 06 & PARCEL 815		
NO.	DATE:	REVISION:	BY:

PROPOSED SEWAGE DISPOSAL SYSTEM

SULLIVAN, CONNORS AND ASSOCIATES
 LAND SURVEYING AND CIVIL ENGINEERING
 121 BOSTON POST RD. SUDBURY, MA. 01776
 PHONE: 978-443-9566 FAX: 978-443-8915
 DATE: 1-9-2020 SHEET 1 OF 1