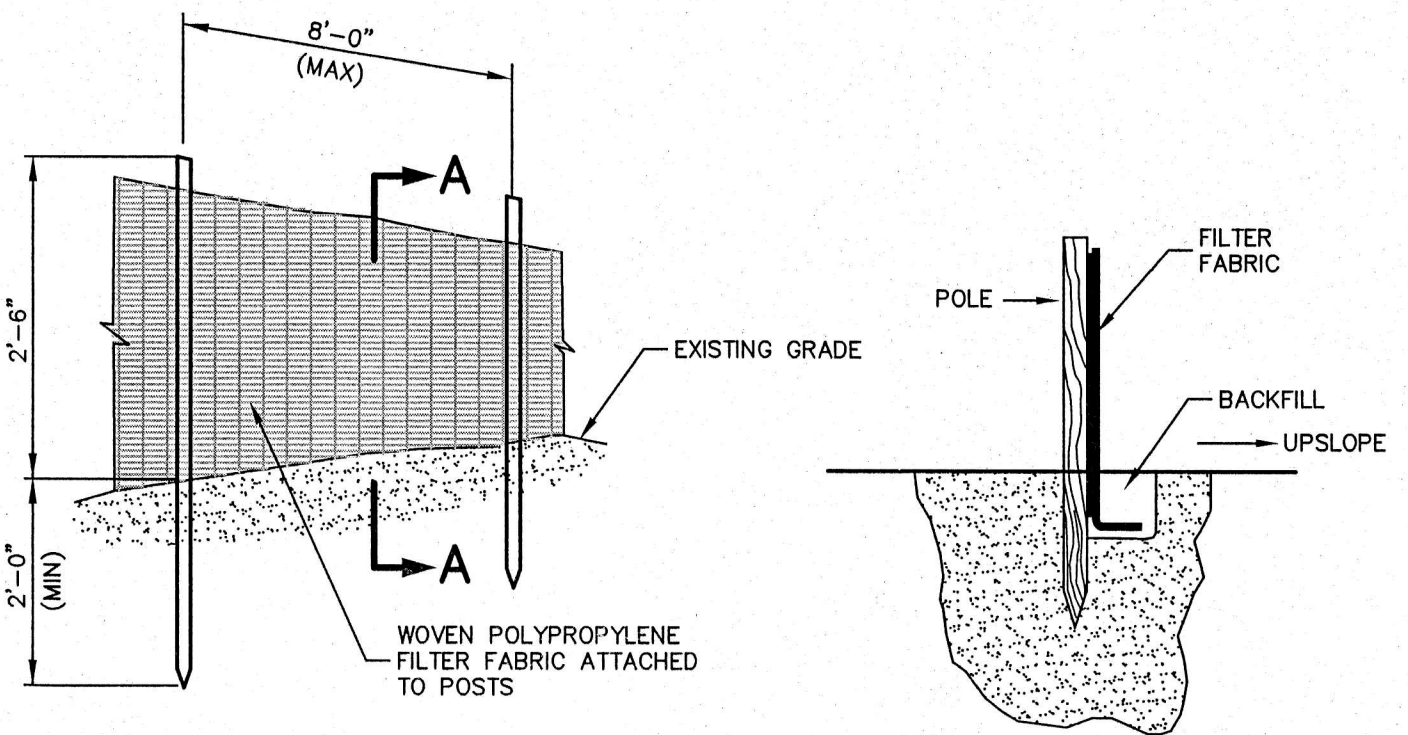


- NOTES:
- TIGHT TANK SHALL BE WATERPROOFED. A MINIMUM OF TWO (2) COATS OF BITUMASTIC COMPOUND SHALL BE APPLIED PRIOR TO INSTALLATION OF TANK.
  - ONE (1) 24-INCH DIAMETER CAST IRON FRAME & COVER W/ APPROPRIATE RISER SHALL BE INSTALLED AT GRADE TO PROVIDE ACCESS FOR ROUTINE PUMPING.
  - A FLOAT-ACTUATED ALARM SHALL BE INSTALLED INSIDE THE DWELLING. THE ALARM SHALL PROVIDE AUDIBLE & VISUAL NOTIFICATION TO THE OCCUPANTS. THE ALARM FLOAT SHALL BE SET TO SOUND WHEN 3/5 TANK CAPACITY HAS BEEN REACHED.
  - TANK OUTLETS SHALL BE PERMANENTLY SEALED.
  - 2,500 GALLON SEPTIC TANK SHALL BE ITEM CTK-2500 AS MANUFACTURED BY SHEA CONCRETE OR APPROVED EQUAL.

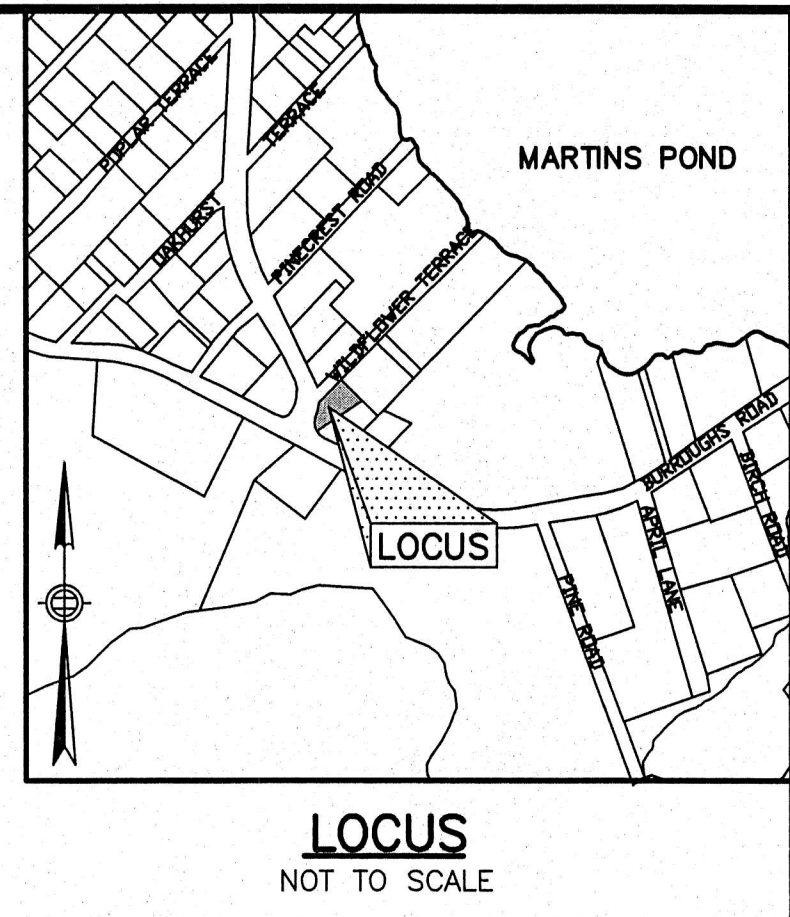
**2,500 GALLON H2O MONOLITHIC TANK**  
NOT TO SCALE



**ELEVATION**  
**SECTION A-A**  
**SILTATION FENCE DETAIL**  
NOT TO SCALE

**TIGHT TANK NOTES**

- A TIGHT TANK IS PROPOSED PER 310 CMR 15.260 BECAUSE THERE IS NO OTHER FEASIBLE ALTERNATIVE TO UPGRADE THE EXISTING FAILED/ SUBSTANDARD SYSTEM.
- THE TIGHT TANK IS DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF 310CMR 15.260(2) AS SPECIFIED ON THIS PLAN.
- THE TIGHT TANK SHALL BE EMPTIED ON A ROUTINE AS-NEEDED BASIS OR ON AN APPROPRIATE REGULAR ROUTINE SCHEDULE AS COORDINATED WITH A LOCAL SEPTIC PUMPING COMPANY. CONTENTS SHALL BE PROPERLY DISPOSED OF AT TREATMENT WORKS FACILITY APPROVED FOR RECEIVING TRANSFERRED SEPTAGE.
- SITING OF THE TIGHT TANK AS PROPOSED ON THIS PLAN IS TO PROVIDE MAXIMUM FEASIBLE COMPLIANCE GIVEN THE EXISTING SITE CONSTRAINTS. LOCAL UPGRADE WAIVERS/VARIANCES ARE REQUIRED PER 310CMR 15.404 THROUGH 15.411 FROM THE MINIMUM SETBACK REQUIREMENTS OF 310 15.211 APPLICABLE TO A TIGHT TANK (HOLDING TANK) INCLUDING DISTANCE TO STREET LINE AND FOUNDATION.



**VARIANCES:** (VIA LOCAL UPGRADE APPROVAL)

- REQUEST VARIANCE TO REDUCE THE SETBACK DISTANCE FROM STREET LINE TO TIGHT TANK (HOLDING TANK) TANK FROM 10' TO 5' 310 CMR 15.405 (1) (a).
- REQUEST VARIANCE TO REDUCE THE SETBACK DISTANCE FROM FOUNDATION TO TIGHT TANK (HOLDING TANK) FROM 10' TO 5' 310 CMR 15.405 (1) (b).

**GENERAL NOTES**

- TIGHT JOINT PIPING IS TO CONSIST OF POLYVINYL CHLORIDE PIPE (P.V.C.) SCHEDULE 40, UNLESS OTHERWISE NOTED.
- ALL DISTURBED AREAS ARE TO BE LOAMED, SEEDED AND MAINTAINED TO PREVENT EROSION.
- THE GENERAL CONTRACTOR IS TO BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL OF ALL COMPONENTS.
- THE DESIGNER HAS NOT BEEN RETAINED BY THE CLIENT TO CONSTRUCT OR SUPERVISE THE CONSTRUCTION OF THE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS FOR INSPECTION OF INSTALLATION OF THE SYSTEM WITH THE LOCAL BOARD OF HEALTH BEFORE BACKFILLING OVER ANY SYSTEM COMPONENTS.
- THE DESIGNER MUST INSPECT AND SURVEY THE INSTALLED SYSTEM PRIOR TO THE CONTRACTOR BACKFILLING OVER ANY SYSTEM COMPONENTS. THE AS-BUILT PLAN MUST BE CERTIFIED BY THE DESIGNER WITH A STAMP AND SIGNATURE.
- EXISTING UTILITY LOCATIONS HAVE NOT BEEN VERIFIED. PRIOR TO THE START OF EXCAVATION ACTIVITIES THE CONTRACTOR IS TO CALL DIG-SAFE AT 1-888-344-7233.
- NO CHANGES ARE TO BE MADE TO THE PLAN DURING CONSTRUCTION UNLESS APPROVED BY THE DESIGN ENGINEER AND BOARD OF HEALTH.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED, PER TITLE 5, SECTION 15.221(12).
- THE PROPOSED WORK WILL BE WITHIN THE 100' BUFFER ZONE OF A WETLAND RESOURCE AREA AND WILL REQUIRE A FILING OF A NOTICE OF INTENT WITH THE LOCAL CONSERVATION COMMISSION AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION UNDER THE WETLANDS PROTECTION ACT. THE CONTRACTOR SHALL OBTAIN A COPY OF THE ORDER OF CONDITIONS AND FAMILIARIZE HIMSELF WITH ALL REQUIREMENTS CONTAINED THEREIN.

| WETLAND RESOURCE AREA TABLE<br>(100 FOOT BUFFER ZONE) |                                    |
|---|------------------------------------|
| TOTAL BUFFER AREA                                     | IMPERVIOUS AREA<br>(MAXIMUM = 22%) |
| 3,370± SF.  | 1,375 SF. = 40.8% (EXISTING)       |
|   | 935 SF. = 27.7% (PROPOSED)         |

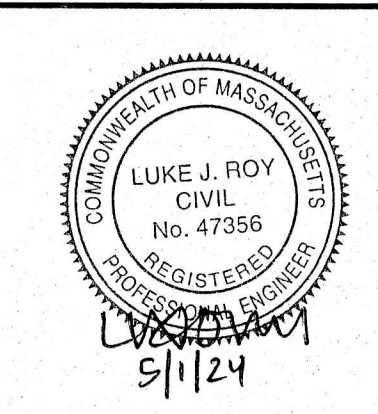
NOTES: 1. ALL PROPOSED WORK IS WITHIN EXISTING ALTERED BUFFER ZONE AREAS. THERE IS NO NEW BUFFER ZONE ALTERATION PROPOSED.

**DESIGN**

EXISTING 2 BEDROOM DWELLING  
2 BEDROOMS @ 110 gpd PER BEDROOM = 220 gpd  
500% x 220 gpd = 1,100 gal.  
(2,000gal. MIN REQUIRED FOR TIGHT TANK PER TITLE 5)  
USE 2,500 gal. TANK

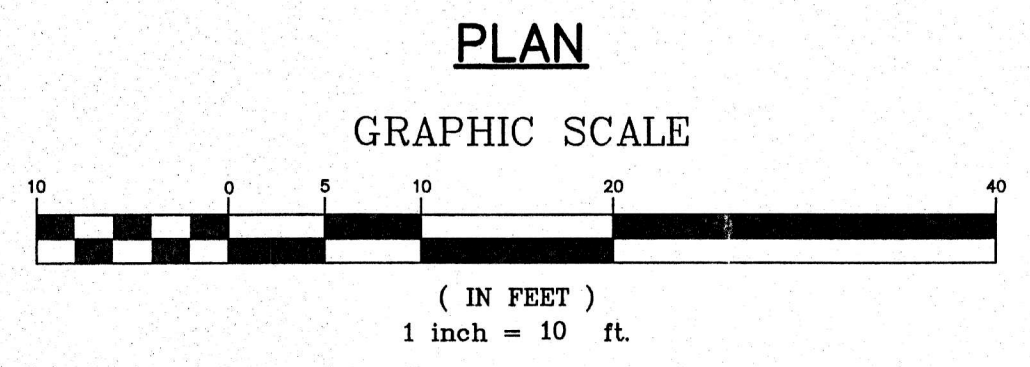
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**LEGEND**

- EXISTING UTILITY POLE
- EXISTING STONE WALL
- EXISTING TREES
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT GRADE
- PROPOSED FINISH GRADE
- SOIL TESTING LOCATION
- EXISTING TREE/BRUSH LINE
- EXISTING WATER SERVICE
- EXISTING GAS SERVICE
- BENCH MARK (SEE CHART)



| BENCHMARKS (NAVD88 DATUM) |                      |           |
|---------------------------|----------------------|-----------|
| NO.                       | DESCRIPTION          | ELEVATION |
| BM#1                      | NAIL IN UTILITY POLE | 81.51     |

**LJR ENGINEERING, INC.**  
Civil Engineers & Land Surveyors  
234 Park Street • North Reading, MA 01864 • 978-664-8141

**SITE PLAN**  
**PROPOSED TIGHT TANK**  
67 BURROUGHS ROAD  
NORTH READING, MASSACHUSETTS  
ASSESSORS MAP 8 PARCEL 269

APPLICANT: JEFF STRONG  
67 BURROUGHS ROAD  
NORTH READING, MA 01864

|                   |                       |
|-------------------|-----------------------|
| DATE: MAY 1, 2024 | DESIGNED BY: L.J.R.   |
| SCALE: AS NOTED   | DRAWN BY: R.P.O.      |
| SHEET: 1 OF 1     | CHECKED BY: L.J.R.    |
|                   | PROJECT No: 24-012    |
|                   | DRAWING: 24012SEP.DWG |