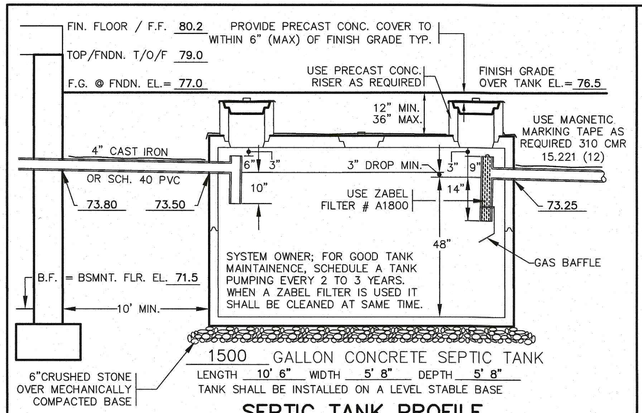
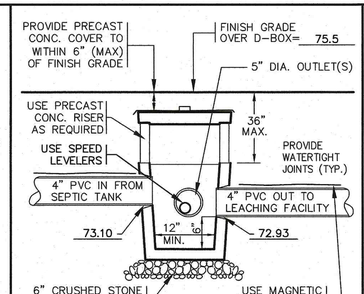


SEPTIC TANK PROFILE

N.T.S.

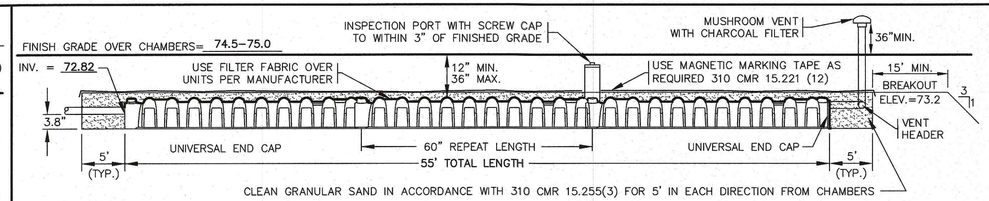


9 OUTLET DISTRIBUTION BOX
TO BE INSTALLED ON A LEVEL STABLE BASE
FIRST TWO FEET OF OUTLET PIPES TO BE LAID LEVEL

CROSS SECTION VIEW

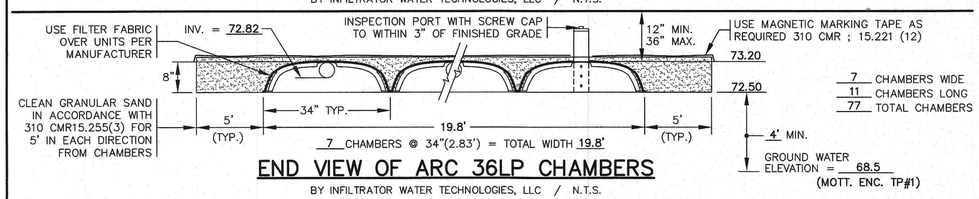
DISTRIBUTION BOX DETAIL

N.T.S.



PROFILE OF ARC 36LP CHAMBERS

BY INFILTRATOR WATER TECHNOLOGIES, LLC / N.T.S.



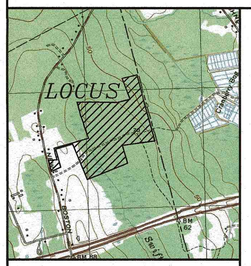
7 CHAMBERS @ 34"(2.83') = TOTAL WIDTH 19.8'

END VIEW OF ARC 36LP CHAMBERS

BY INFILTRATOR WATER TECHNOLOGIES, LLC / N.T.S.

GENERAL NOTES

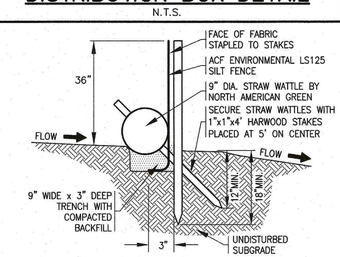
1. UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL RULES.
2. ANY CHANGES TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
3. 4" SCHEDULE 40 PVC PIPE WITH WATER TIGHT JOINTS SHALL BE USED IN THE DISPOSAL SYSTEM UNLESS OTHERWISE NOTED.
4. SLOPE ALL SOLID PIPE AT 1.0% MINIMUM.
5. THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL.
6. LOCAL BOARD OF HEALTH AND DESIGN ENGINEER TO BE NOTIFIED PRIOR TO BACKFILLING WHEN SYSTEM IS NEARLY COMPLETE AND READY FOR INSPECTION. SYSTEM IS NOT TO BE BACKFILLED WITHOUT FIRST OBTAINING APPROVAL FROM BOARD OF HEALTH AND DESIGN ENGINEER.
7. ELEVATIONS BASED ON NAVD-88
8. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION & REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM DIGSAFE DELINEATIONS AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACK FILLING, GRADING, PAVING OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE. G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
9. NON-SHRINK GROUT TO BE USED AT ALL POINTS WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE WATER TIGHT SEALS.
10. ALL TANKS SHALL BE WATERTIGHT THROUGH MANUFACTURERS SPECIFICATIONS OR APPLICATION OF ASPHALT OR SYNTHETIC POLYMER SEALER.
11. ALL SEPTIC SYSTEM COMPONENTS SHALL WITHSTAND H-10 LOADING UNLESS LOCATED UNDER PAVEMENT, DRIVES OR TRAVELED WAYS IN WHICH CASE THEY SHALL WITHSTAND H-20 LOADING.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL APPLICABLE FEES AND OBTAINING ALL PERMITS, INCLUDING A TRENCH PERMIT PURSUANT TO 320 CMR 14.00 AS APPLICABLE.
13. WHERE REQUIRED, CONTRACTOR SHALL REMOVE ALL LOAM, SUBSOIL AND UNSUITABLE MATERIAL IN AREA BENEATH AND FOR 5 FT. ON ALL SIDES OF LEACHING FACILITY. REPLACE ALL UNSUITABLE MATERIAL WITH CLEAN COARSE SAND FREE FROM CLAY, FINES OR OTHER UNSUITABLE MATERIAL IN ACCORDANCE WITH 310 CMR 15.255(3).
14. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES FOUND IN SITE CONDITIONS FROM THOSE SHOWN PRIOR TO CONTINUATION OF WORK.
15. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
16. ALL SOIL ABSORPTION SYSTEMS SHALL HAVE A MINIMUM OF ONE (1) INSPECTION PORT CONSISTING OF A PERFORATED FOUR(4) INCH PIPE PLACED VERTICALLY DOWN INTO THE CHAMBER TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE CHAMER. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN THREE(3) INCHES OF FINISH GRADE.
17. WHERE AN EXISTING SEPTIC TANK IS TO BE ABANDONED IN PLACE, IT SHALL BE PUMPED COMPLETELY DRY AND THE BOTTOM SHALL BE RUPTURED. THE REMAINDER OF TANK SHALL BE COLLAPSED AND BACKFILLED WITH CLEAN SAND.
18. WHERE AN EXISTING SEPTIC TANK IS TO BE REMOVED FROM THE SITE, IT SHALL BE PUMPED COMPLETELY DRY PRIOR TO REMOVAL. WHERE A LEACHING AREA IS TO BE REMOVED, ALL STRUCTURES, INCLUDING DISTRIBUTION BOX, ANY PIPE, CRUSHED STONE AND ALL CONTAMINATED SOIL SHALL BE REMOVED. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
19. PROPOSED PROJECT IS LOCATED WITHIN:
    ASSESSORS MAP # 35 LOT # 2
    ZONING DISTRICT RURAL RESIDENCE (RR)
    BUILDING SETBACKS F: 30 ft. S: 20 ft. R: 30 ft.
    FEMA FLOOD ZONE N/A ELEVATION N/A
    AS SHOWN ON COMMUNITY PANEL # N/A
20. OWNER OF RECORD: STEVEN TALLARIDA
    ADDRESS: 11 VICTORIA LANE
    MANSFIELD, MA



LOCUS MAP / SCALE : 1"=2000'

NOTES:

1. PROVIDE AND MAINTAIN STAKED STRAW WATTLES WITH SILT FENCE EROSION CONTROL BARRIERS AS SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL VEGETATION IS ESTABLISHED.
2. REFER TO ARCHITECTURAL PLANS PREPARED BY OTHERS FOR ALL PROPOSED DWELLING & GARAGE DIMENSIONS AND DETAILS OF CONSTRUCTION. CONTRACTOR SHALL CONFIRM TOP OF FOUNDATION AND GARAGE SLAB ELEVATION WITH OWNER & ARCHITECT PRIOR TO CONSTRUCTION.
3. THE FINAL LOCATION AND DETAILS OF CONSTRUCTION FOR THE PROPOSED UNDERGROUND ELECTRIC SERVICE & ELECTRIC METER SHALL BE DETERMINED BY THE LOCAL UTILITY COMPANY. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY PROVIDER AND ELECTRICIAN PRIOR TO CONSTRUCTION.
4. LOAM & SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY UNLESS OTHERWISE NOTED.

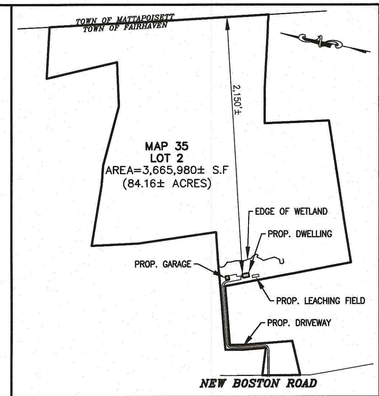


NOTES:

1. STRAW WATTLES AND SILTATION FENCING SHALL BE INSTALLED DOWNSLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
2. SECURE WATTLES WITH 1"x1"x4' STAKES EVERY 5' AND STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING 2"-4" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE OR STABILIZED COVER HAS BEEN FIRMLY ESTABLISHED.
4. EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

SILT FENCE/STRAW WATTLE DETAIL

N.T.S.

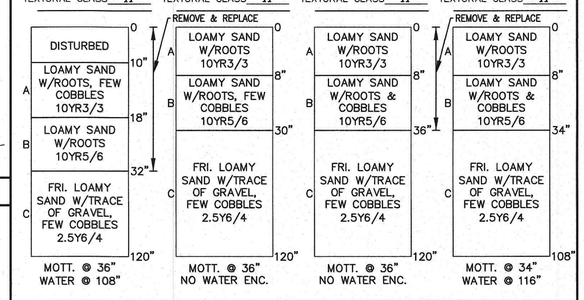


LOT OVERVIEW PLAN / SCALE 1" = 600'

TEST PIT DATA

INSPECTOR: DAVID FLAHERTY DATE: 12/6/24
SOIL EVALUATOR: BRIAN GRADY CERT. #: SE-923

	TP #1	TP #2	TP #3	TP #4
ELEV TOP =	71.5	69.8	70.2	70.5
	MOTT. ENC.	MOTT. ENC.	MOTT. ENC.	MOTT. ENC.
ELEV WATER =	68.5	66.8	67.2	67.7
PERC RATE =	26 MIN/IN	22 MIN/IN	— MIN/IN	— MIN/IN
DEPTH OF PERC=	36-54"	34-52"	—	—
TEXTURAL CLASS	II	II	II	II



DESIGN DATA

NUMBER OF BEDROOMS 5
NUMBER OF PERSONS 10
DESIGN FLOW 110 GAL/DAY/BEDROOM
TOTAL DESIGN FLOW 550 GAL/DAY

SEPTIC TANK:
550 GAL. X 200% = 1100 GALS. DESIGN CAPACITY
USE 1500 GALLON SEPTIC TANK. (MIN. SIZE PER REGS)

LEACHING FIELD:
BOTTOM CAPACITY-EFFECTIVE LEACHING AREA (ELA)
77 CHAMBERS IN BED CONFIGURATION
7 ROWS OF 11 CHAMBERS
WIDTH=(7 ROWS x 2.83'W)= 19.8 FT
LENGTH=(11 CHAMBERS/ROW x 5'L)= 55 FT/ROW
55 FT/ROW x 7 ROWS= 385 FT.
385 FT x 4.73 ELA*= 1821 SF
1821 SF x 0.33 GPD/SF= 600.9 GAL.LEACHING/DAY
ELA*=EFFECTIVE LEACHING AREA-SEE DEP APPROVAL

RESERVED FOR BOARD OF HEALTH USE

LEGEND

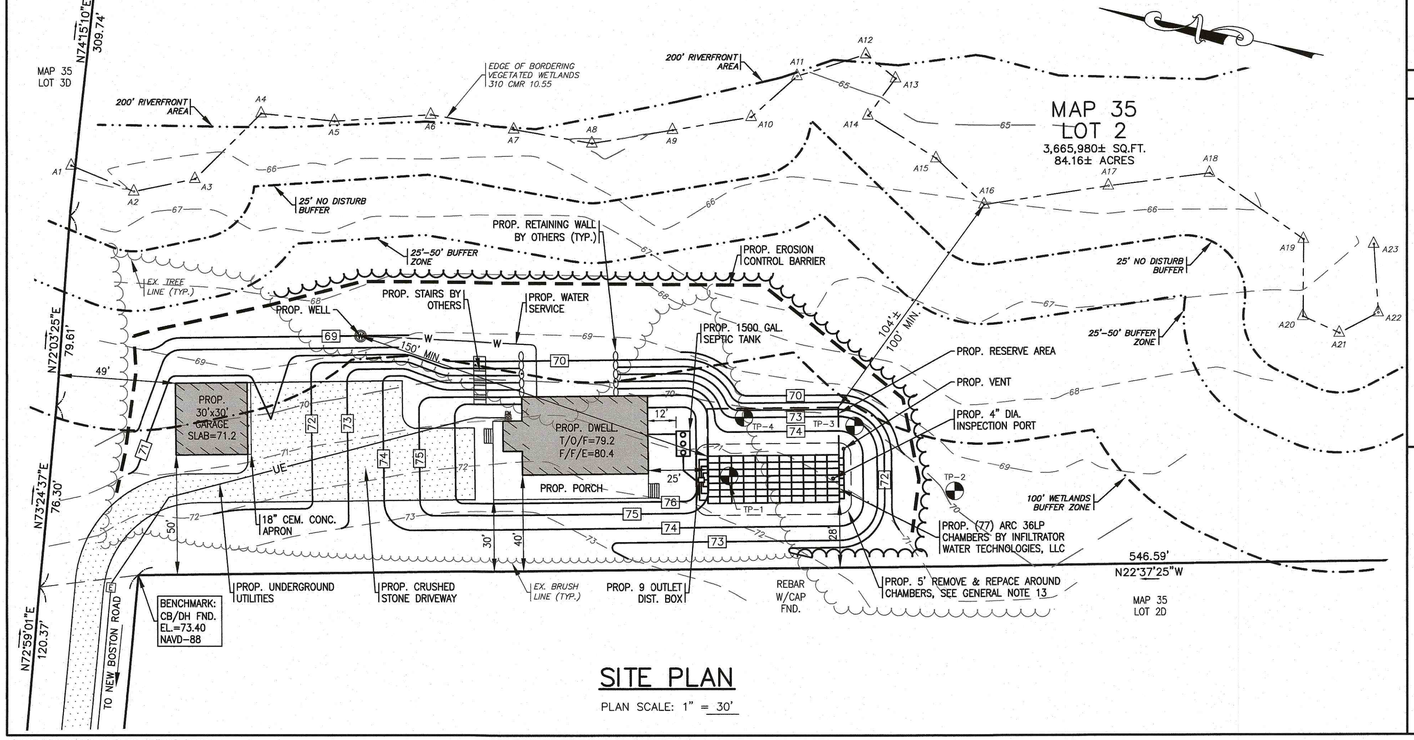
F.F. = 00.00	FINISHED FLOOR ELEVATION	T/O/F = 00.00	TOP OF FOUNDATION
G.F. = 00.00	GARAGE FLOOR ELEVATION	INV. = 00.00	INVERT ELEVATION
B.F. = 00.00	BASEMENT FLOOR ELEVATION	(00.00)	AS-BUILT ELEVATION
38	EXISTING CONTOURS		EXISTING SPOT GRADE
38	PROPOSED CONTOURS	TP	TEST PIT LOCATION
G	GAS LINE		LIMITS OF WETLANDS
UE	ELECTRIC LINE		SEPTIC TANK
W	WATER LINE		LIMITS OF OVERDIG
	4" SOLID SCH-40 PVC PIPE		DISTRIBUTION BOX

REV.	DATE	BY	APP'D.	DESCRIPTION

APPROVED BY:

COMMONWEALTH OF MASSACHUSETTS
WILLIAM F. MADDEN
CIVIL
NO. 39883
REGISTERED PROFESSIONAL ENGINEER
5/22/25

APPROVED BY:



SITE PLAN

PLAN SCALE: 1" = 30'

SEWAGE DISPOSAL SYSTEM DESIGN
PREPARED FOR
STEVEN TALLARIDA
MAP 35 / LOT 2
15 ROBICHAUD FARM LANE
FAIRHAVEN, MA

G.A.F. ENGINEERING, INC.
PROFESSIONAL ENGINEERS & LAND SURVEYORS
266 MAIN STREET, WAREHAM, MA 02571
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E-MAIL: info@gafenginc.com

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DWG NO.: SD-1	SCALE: AS NOTED	DATE: APR. 24, 2025	
DRN BY: JMP	CHK BY: WFM	JOB No. 24-10203A	

H:\GAF DRAWINGS\2024 DRAWINGS\24-10203 (TALLARIDA-PRIM01)\10203\dwg\SEPTIC PLAN.dwg