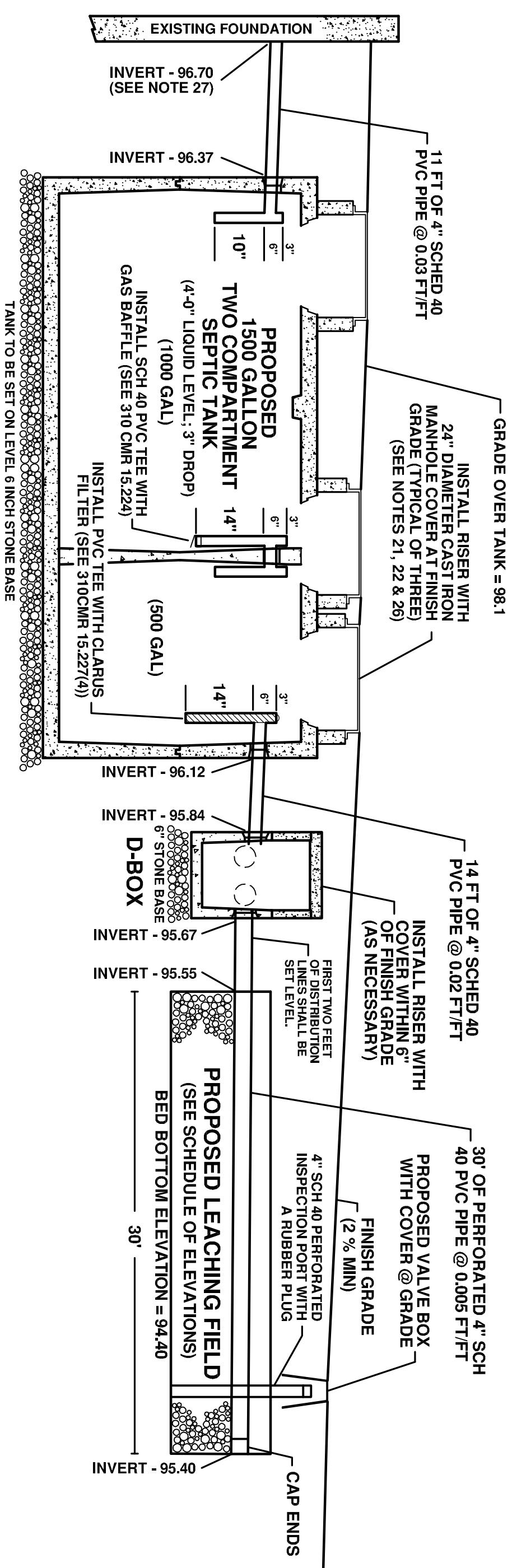


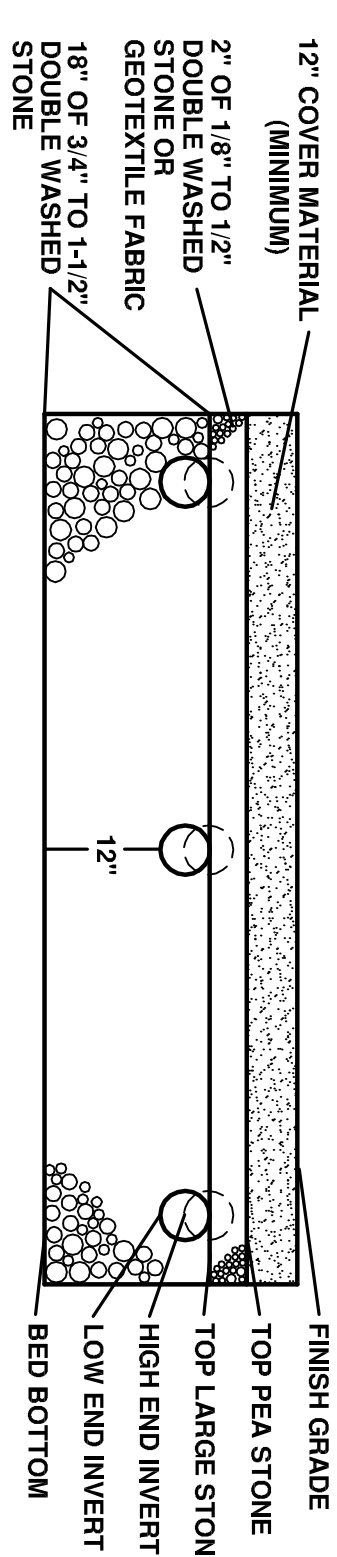
PROFILE AND DETAILS

NOT TO SCALE



CROSS SECTION

NOT TO SCALE



SCHEDULE OF ELEVATIONS	
TOP OF FOUNDATION	100.02
OUT OF FOUNDATION	96.70
IN SEPTIC TANK	96.37
OUT SEPTIC TANK	96.12
IN DISTRIBUTION BOX	95.84
OUT DISTRIBUTION BOX	95.67
LEACHING FIELD	99.20
TOP PEA STONE	95.05
TOP LARGE STONE	95.88
HIGH END INVERT	95.55
LOW END INVERT	95.40
BED BOTTOM	94.40

SOIL PROFILE DATA

TESTHOLE No. 1

DEPTH ELEV.

0"	A	(to be removed)	58.20
10"	B	(to be removed)	97.80
18"	B	(to be removed)	96.80
18"	A	(to be removed)	95.10
18"	B	(to be removed)	96.60

0"	A	(to be removed)	58.20
10"	B	(to be removed)	97.80
18"	B	(to be removed)	96.80
18"	A	(to be removed)	95.10
18"	B	(to be removed)	96.60

DATE: 9/14/2020
 ENG: K. RITCHIE, CSI
 AGENT: R. METCALF, NABOH
 KEVIN J. RITCHIE IS THE SOIL EVALUATOR FOR THIS SITE.
 HE PASSED THE MA SOIL EVALUATOR EXAM SPRING 1995.

PERCOLATION TEST DATA

PERC No.	DATE	DEPTH	RATE
P-A	9/14/2020	68 INCHES	2 MPI

PERCOLATION TEST(S) PERFORMED BY: KEVIN RITCHIE
 WITNESSED BY: RICK METCALF

NOTES AND SPECIFICATIONS

- BOUNDARY LINE INFORMATION TAKEN FROM A DEED RECORDED IN THE M.S.D.R. AS DEED BOOK 2889 PAGE 410. IN ADDITION, SEE A PLAIN ENTTLED "LAND IN TOWNSHIP AND PEPPERELL MASS SURVEYED IN THE RECORD AS PLANNING MAP NO. 33 BY CHARLES A. FERRIS CO., DATED APRIL 1959, RECORDED IN THE RECORD AS PLANNING MAP NO. 33.
- TOPOGRAPHICAL INFORMATION TAKEN FROM A FIELD SURVEY PERFORMED BY THIS OFFICE.
- CONTRACTOR SHALL NOTIFY DISSAFE (888) 344-2233 AT LEAST 72 HOURS PRIOR TO INITIATING WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY UTILITIES NOT DELINEATED BY INSPECTIONS.
- CONTRACTOR SHALL NOTIFY THIS OFFICE 24 TO 48 HOURS PRIOR TO REQUIRED CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACTOR IMMEDIATELY.
- CONTAMINATED SOIL WITHIN THE VICINITY OF THE PROPOSED LEACHING AREA SHOULD BE REMOVED BY THE CONTRACTOR. LOCATIONS OF EXISTING LEACHING AREA SHOULD BE APPROXIMATE.
- WHERE FILL IS REQUIRED TO REPLACE UNSTABLE OR IMPROVISED MATERIAL, THE ELEVATION OF BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO A DEPTH OF NATURALLY OCCURRING PERIODS MATERIAL.
- FILL MATERIAL SHALL MEET THE SPECIFICATIONS ESTABLISHED IN 310 CMR 13.255.
- EXISTING DWELLING IS SERVICED BY A MUNICIPAL WATER SUPPLY.
- THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE GARAGE DISPOSAL UNITS.
- RETURN WATER FROM HOME WATER FILTRATION SYSTEM SHALL NOT BE Piped INTO THE SEPTIC SYSTEM.
- TANKS AND DISTRIBUTION BOX SHOWN HEREON ARE GRAPHICAL REPRESENTATIONS OF THE CONCRETE OF TANKS AND BOXES SHALL BE APPROVED BY THE ENGINEER OF RECORD AND THE BOARD OF HEALTH WITHIN THE LOCAL CONSERVATION COMMISSION AND THE DEPARTMENT OF ENVIRONMENTAL.
- ANY ALTERATION OF WETLANDS OR DISTURBANCE WITHIN THE 100 FOOT BUFFER ZONE SHALL REQUIRE A FILING WITH THE LOCAL CONSERVATION COMMISSION AND THE DEPARTMENT OF ENVIRONMENTAL.
- THIS PLAN MAY ONLY BE REVISED WITH THE CONSENT OF THE LOCAL BOARD OF HEALTH AND THE ENGINEER OF RECORD.
- BASED ON AVAILABLE RECORD INFORMATION AND A VISUAL SITE INSPECTION, ALL WELLS WITHIN 100 FEET OF THE PROPOSED LEACHING SYSTEM SHOWN HEREON.
- THIS PLAN WAS PREPARED FOR THE PURPOSES OF SHOWING A PROPOSED SEWAGE DISPOSAL SYSTEM AND NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS PRIOR TO ANY CONSTRUCTION.
- A SOIL BENCH MARK (SBM) SHALL BE INSTALLED IN THE LEACHING AREA. INSPECTION PORT SHALL BE LOCATED WITHIN A VALVE BOX WITH THE COVER SET AT FINISH GRADE.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE ON A COMPARABLE MEANS.
- THE OUTLET OF THE SEPTIC TANK SHALL BE EQUIPPED WITH A CLEARVIS ENVIRONMENTAL VLV EFFLUENT FILTER AVAILABLE FROM ZOLLERL 1-800-928-7867 OR EQUIVALENT.
- THE DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIRES THAT THE EFFLUENT FILTER IN THE OUTLET OF THE SEPTIC TANK BE SERVICED AT LEAST ONCE PER YEAR. THIS OFFICE RECOMMENDS THAT THE EFFLUENT FILTER BE SERVICED AT LEAST ONCE PER YEAR.
- COVERS OVER THE INLET AND OUTLET OF THE SEPTIC TANK SHALL BE MARKED TO INDICATE THAT AN EFFLUENT FILTER HAS BEEN INSTALLED IN THE OUTLET TEE.
- CAST IRON MANHOLE COVERS ARE REQUIRED ON ALL OPENINGS OF THE SEPTIC TANK. PLASTIC COVERS ARE NOT ALLOWED.
- THE SUBJECT PROPERTY IS NOT LOCATED IN A WETLAND SENSITIVE AREA AS SHOWN ON THE MASS GIS "WETLANDS" MAP. THERE ARE NO WETLANDS WITHIN THE PROPERTY.
- THESE "E" PIPES SHALL BE 3" DIA. WITH 310 CMR 13.244 AND THE "W" PIPES SHALL BE 4" DIA. WITH 310 CMR 13.244.
- TOWNSHIP BOARD OF HEALTH REGULATIONS ON REMOVED AS NECESSARY.
- CIVIL SOLUTIONS SHALL NOT BE HELD RESPONSIBLE FOR THE LOCATIONS OF ANY SURFACE UTILITIES. LOCATIONS OF SURFACE UTILITIES SHOWN HEREON WERE PROVIDED BY OTHERS. SUBJECT PROPERTY OWNER SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE ONSET OF CONSTRUCTION.
- ALL THREE TANK OPENINGS ON THE SEPTIC TANK ARE REQUIRED TO HAVE INSERS WITH CAST IRON MANHOLE COVERS SET AT FINISH GRADE.
- THIS DESIGN REQUIRES ALTERATIONS TO THE INTERIOR PLUMBING TO RELOCATE THE BUILDING SEWER OWNERS' SERVICE LINE TO THE INTERIOR PLUMBING FOR PROPER AND FEASIBILITY OF THE OWNERS' SERVICE LINE.

APPROVALS REQUIRED

1. THERE ARE NO KNOWN VARIANCES REQUIRED.

SEWAGE DISPOSAL SYSTEM PLAN

2 PEPPERELL ROAD
 TOWNSEND, MASSACHUSETTS
 SEPTEMBER 23, 2020

ASSESSOR'S MAP 33, PARCEL 57

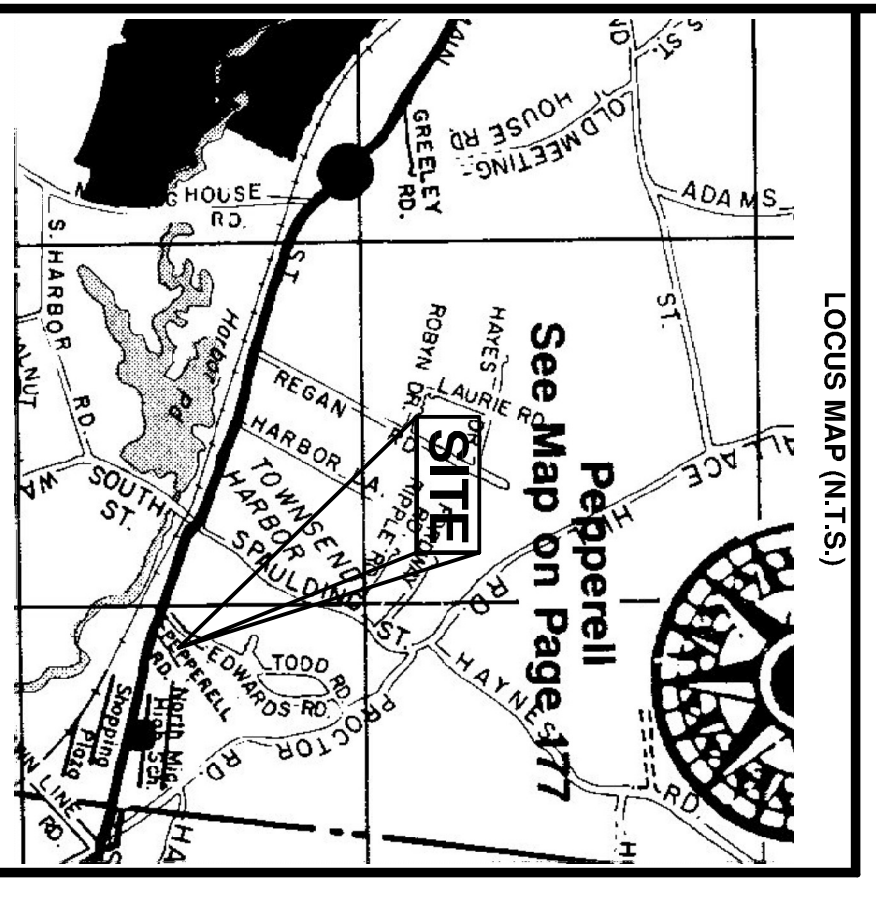
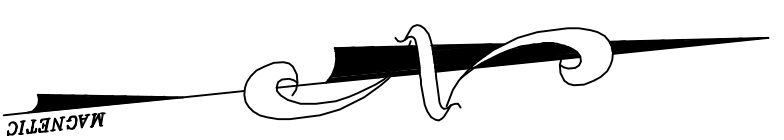
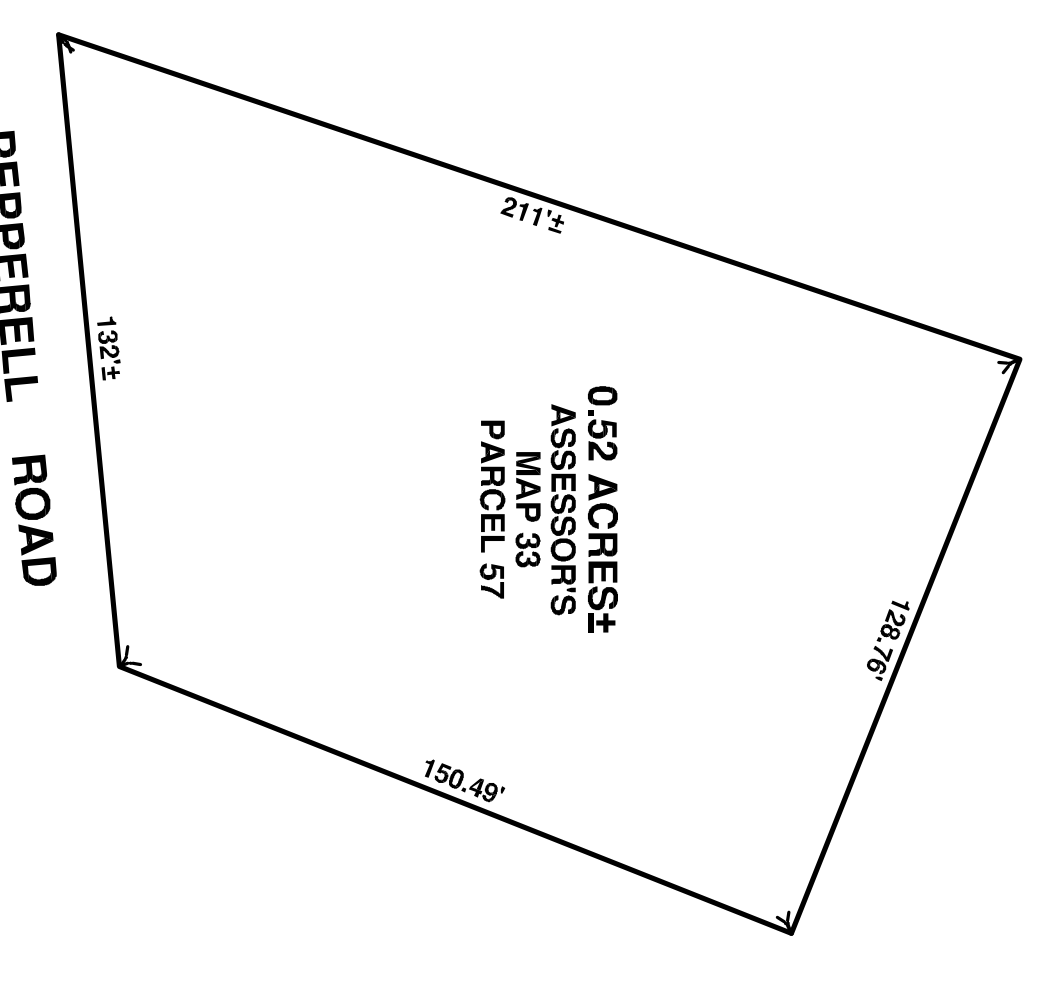
CIVIL SOLUTIONS, INC.

TITLE 5 DESIGN CAPACITY PROVIDED:
 3 BEDROOMS X 110 GAL/BEDROOM = 330 GAL/DAY
 PROVIDED:
 PERCOLATION RATE: 2 MINUTES/INCH
 APPLICATION RATE: 0.74 GAL/SF
 TOTAL LEACHING AREA: 15 FT (W) X 30 FT (L) = 450 SF
 TOTAL VOL APPLIED/DAY: 450 SF X 0.74 GAL/SF = 333 GAL
 APPROVED CAPACITY: 3 BEDROOM

SHEET	SCALE	JOB NO.	DWG. NO.	REVISION	BY
1 OF 1	1"=20'	20-093	20-094D		
OWNER OF RECORD:					
SHARON NEWTON					
742 LOUDELLA STREET					
NEW SMYRNA BEACH, FL 32188					
PLANNED BY:					
SHARON NEWTON					
742 LOUDELLA STREET					
NEW SMYRNA BEACH, FL 32188					

PLOT PLAN

1" = 40'



LEGEND

- EXISTING TREE
- LIGHT POST
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- SOIL PROFILE TEST
- PERCOLATION TEST
- EXISTING CONTOUR
- PROPOSED CONTOUR
- WATER LINE
- GAS LINE
- BRUSH LINE/TREELINE

SYSTEM CALCULATIONS

TITLE 5 DESIGN CAPACITY PROVIDED:
 3 BEDROOMS X 110 GAL/BEDROOM = 330 GAL/DAY
 PROVIDED:
 PERCOLATION RATE: 2 MINUTES/INCH
 APPLICATION RATE: 0.74 GAL/SF
 TOTAL LEACHING AREA: 15 FT (W) X 30 FT (L) = 450 SF
 TOTAL VOL APPLIED/DAY: 450 SF X 0.74 GAL/SF = 333 GAL
 APPROVED CAPACITY: 3 BEDROOM
 SEPTIC TANK SIZING:
 200% X 330 GPD = 660 GALLONS
 INSTALL NEW 1500 GALLON 2 COMPARTMENT SEPTIC TANK