

NOTES

- NO SYSTEM TO BE BACKFILLED OR CONCEALED WITHOUT THE REQUIRED INSPECTION BY THE BOARD OF HEALTH.
- AS BUILT AND CONSTRUCTION CERTIFICATION TO BE PREPARED BY DESIGN ENGINEER.
- CERTIFICATION OF CONSTRUCTION REQUIRED BY THE INSTALLER.
- SYSTEM SHALL BE STAKED AND FLAGGED FROM DATE OF INSTALLATION UNTIL CERTIFICATE OF COMPLIANCE IS ISSUED.
- SITE IS IN A NITROGEN SENSITIVE AREA.
- THERE ARE NO PUBLIC WELLS WITHIN 400' OF SEPTIC SYSTEM.
- THERE ARE NO PRIVATE WELLS WITHIN 100' OF SAS.
- THERE ARE NO BORDERING VEGETATED WETLANDS WITHIN 100' OF SOIL ABSORPTION SYSTEM.
- THERE ARE NO INLAND BANKS WITHIN 200' OF SOIL SAS SYSTEM.
- THERE ARE NO SURFACE WATERS WITHIN 50' OF SOIL SAS SYSTEM.

- THERE ARE NO WETLANDS BORDERING SURFACE WATER SUPPLIES OR TRIBUTARIES WITHIN 100' OF SEPTIC SYSTEM.
- THERE ARE NO OPEN, SURFACE, OR SUBSURFACE DRAINS WHICH INTERCEPT HIGH GROUND WATER WITHIN 50' OF SOIL SAS SYSTEM.
- THERE ARE NO OTHER OPEN, SURFACE, OR SUBSURFACE DRAINS.
- THERE ARE NO FOUNDATION DRAINS.
- THERE ARE NO VERNAL POOLS WITHIN 100' OF SOIL SAS SYSTEM.
- THERE ARE NO LEACHING CATCHBASINS OR DRY WELLS WITHIN 25' OF SOIL ABSORPTION SYSTEM.
- THERE ARE NO REGULATORY FLOODWAYS.
- THERE IS NO 100 YEAR FLOOD LIMIT.
- THERE ARE NO INDUSTRIAL CATEGORY OR OTHER PROHIBITED WASTEWATERS.
- COMMERCIAL SYSTEMS ARE NOT SIZED FOR A GARBAGE GRINDER.
- RESIDENTIAL SYSTEMS ARE NOT SIZED FOR GARBAGE GRINDERS.
- GROUNDWATER ADJUSTMENT USED - MOTTLES

- FINISH GRADE TO BE DONE IN ACCORDANCE WITH THE PLAN.
- ALL ELEVATIONS REFER TO ASSUMED.
- FOR PROPER PERFORMANCE, THE SEPTIC TANK SHOULD BE PUMPED ANNUALLY.
- ALL TOPSOIL, FILL, OR OTHER UNSUITABLE MATERIAL WITHIN 5' OF THE PROPOSED LEACHING AREA, WHICH LIES BELOW THE INVERT ELEVATION, MUST BE REMOVED AND REPLACED WITH GRAVEL IN COMPLIANCE WITH 310 CMR, TITLE 5, 15.255(3), IS REQUIRED.
- SOIL EVALUATOR - MICHAEL CATALANO
- LIMITING SOIL LAYER - NONE
- MAGNETIC TAPE IS REQUIRED TO BE INSTALLED OVER TANK COVERS, D-BOX, INSPECTION PORTS AND ALL SEPTIC LINES.
- ONE 4" PVC OBSERVATION PIPE WITH A SCREW CAP IS TO BE INSTALLED WITHIN THE SAS AND SHALL BE SET AT A MAXIMUM OF 3" FROM FINISH GRADE

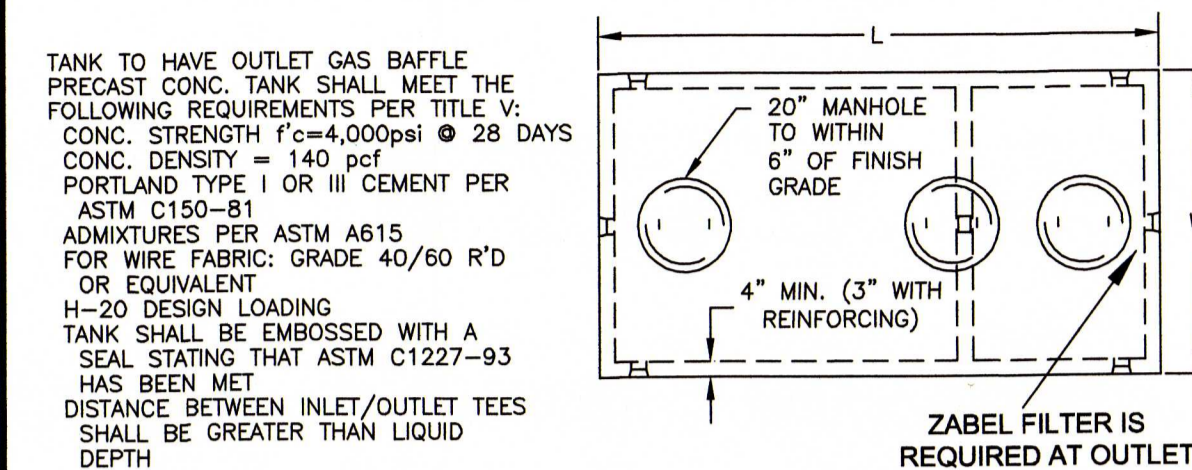
LEGEND

EXISTING	PROPOSED
CONTOUR ---100---	[00]
DRAIN D	D
CATCH BASIN CB □	CB ■
DRAIN MANHOLE DMH ⊙	DMH ⊙
SEWER S	S
SEWER MANHOLE SMH ○	SMH ●
ELECTRIC E	E
WATER W	W
GATE VALVE GV ⊗	GV ⊗
HYDRANT HYD ⊙	HYD ⊙
GAS G	G
TEST HOLE TP	TP
PERK TEST PT	PT

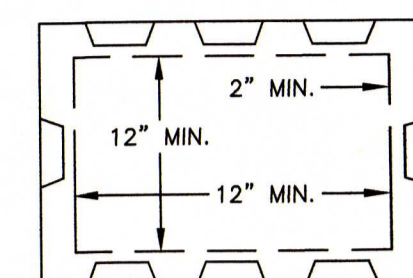
SYSTEM DESIGN

BEDROOMS: 4 DESIGN FLOW: 110 GPD x 4 BEDROOMS = 440 GPD SEPTIC TANK: 1,500 GAL PERC RATE: 20 MIN/IN
 GARBAGE GRINDER: NO
 PROPOSED SYSTEM: 440 GPD DIVIDED BY 0.53 LOADING RATE = 830.18 S.F.
 DESIGN CAPACITY: 32' X 26' X 6" BED WITH SCH40 PERFORATED PIPE. (832 S.F. PROVIDED)

SEPTIC TANK PLAN VIEW



DIST. BOX PLAN VIEW

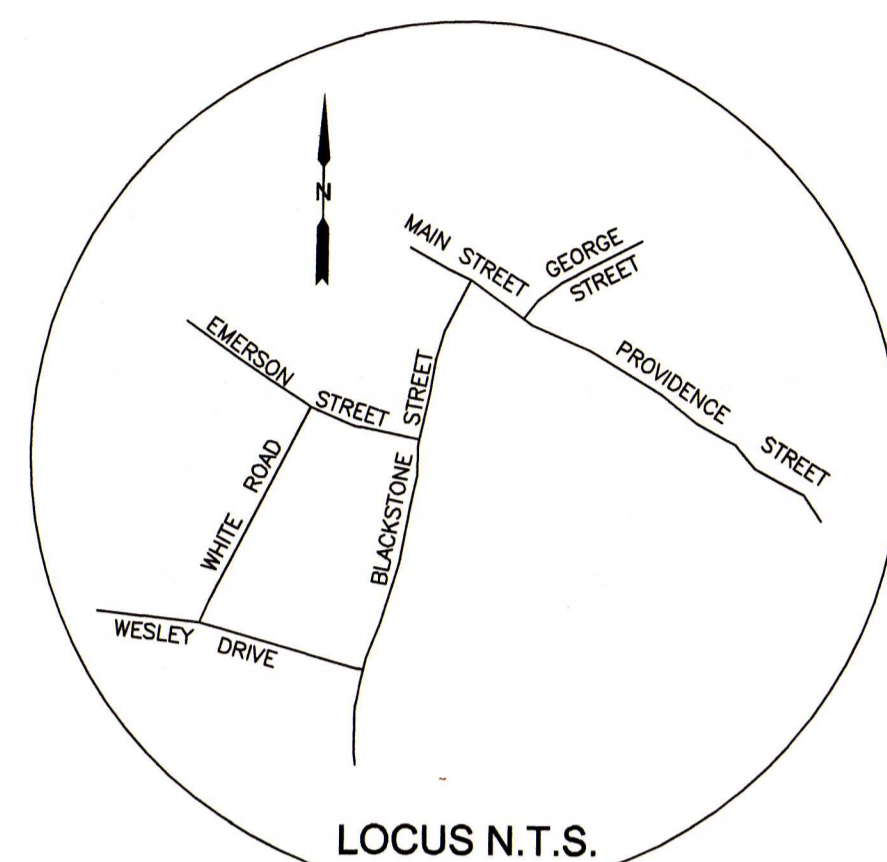


SEPTIC TANK DIMENSION TABLE

TANK VOL.	A	B	D	H(H-10)	H(H-20)	L	T	W
1,500 GAL.	1,000 GAL	500 GAL	4'-4"	5'-8"	5'-10"	10'-6"	19"	5'-8"

ALL DISTRIBUTION BOX OUTLET PIPES SHALL BE LEVEL FOR TWO FEET. ALL OUTLET PIPES SHALL HAVE THE SAME INVERT ELEV. AT THE DIST. BOX. IF INLET PIPE SLOPE EXCEEDS 0.08, PROVIDE CONC. BAFFLE TO 1" ABOVE OUTLET INV. ELEV. MIN. SUMP BELOW OUTLET INV. ELEV. = 6-INCHES OUTLET INV. ELEV. SHALL BE AT LEAST 2-INCHES BELOW THE INLET INV. ELEV.

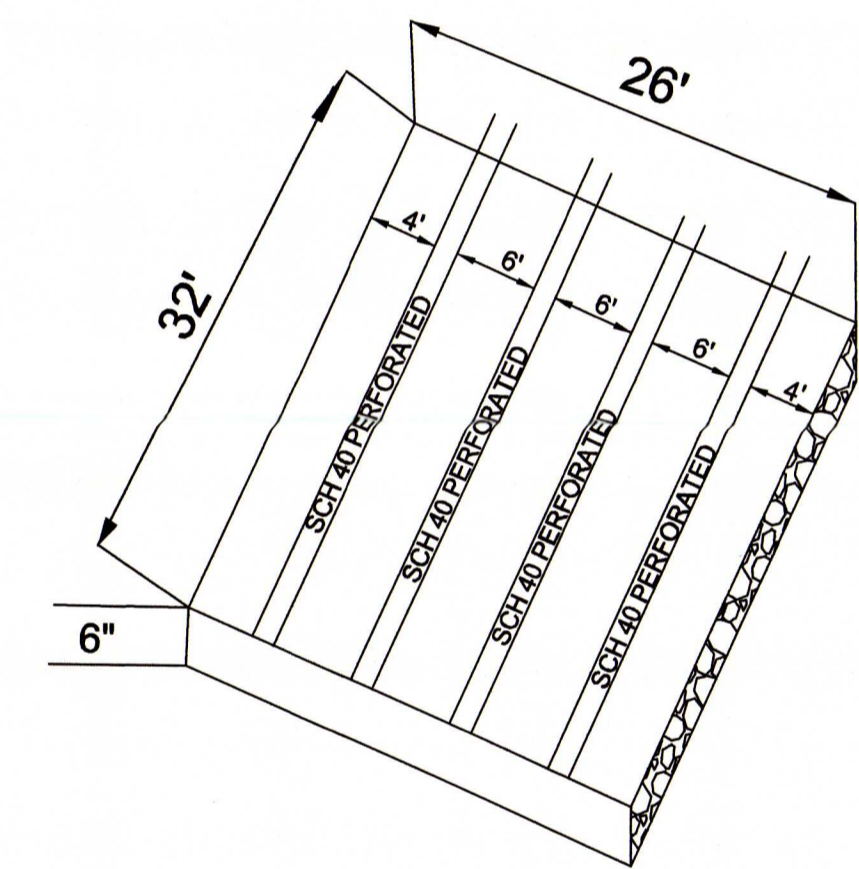
NOTE: THE LICENSED SEPTIC INSTALLER SHALL REVIEW EXISTING PLUMBING IN THE BUILDING AND VERIFY THE ELEVATION OF THE OUTLET PIPE TO PROPOSED TANK PRIOR TO COMMENCEMENT OF THE INSTALLATION OF ANY SEPTIC COMPONENTS.



PARCEL 3
27.52 ACRES

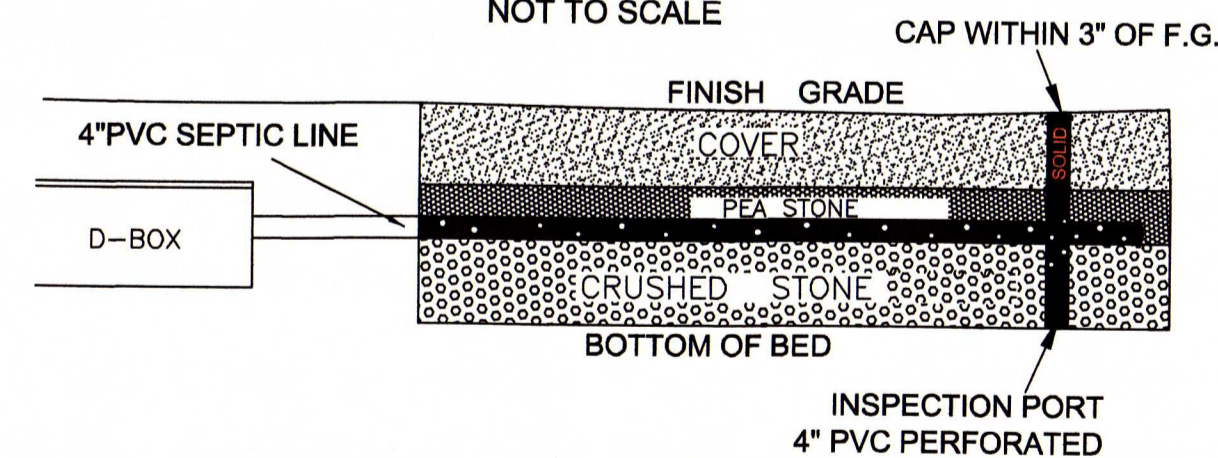
I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE INDICATED ANALYSIS HAS BEEN PERFORMED 10/27/20 BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE SUBMITTED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 15.017.

Michael Catalano



BED DETAIL

INSPECTION PORT DETAIL NOT TO SCALE

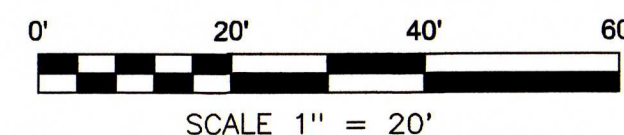


INSPECTION PORT 4" PVC PERFORATED

Title V 15.354 Abandonment of Systems

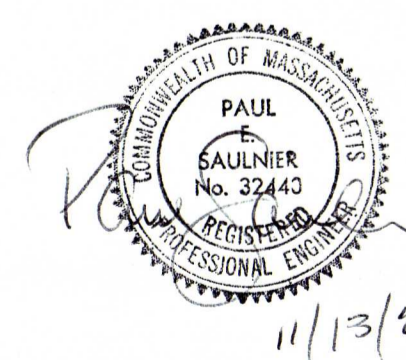
- Whenever the use of a system is disconnected following connection to a municipal or private sanitary sewer or following condemnation or demolition of a building served by the system, the system shall be considered abandoned and any further use of the system for any purpose shall be prohibited unless, after inspection, the approving authority determines the system is in compliance or can be brought into compliance with 310 CMR 15.000.
- Continued use of a septic tank where the tank is to become an integral part of a sanitary sewer system requires the prior written approval of the Department.
- The following procedure shall be used to abandon a system:
 - The facility owner shall apply to the approving authority to abandon the existing system citing the reason(s) abandonment is necessary, and where connection to municipal or private sanitary sewer has been made, a copy of the sewer connection permit shall be submitted with the application.
 - Upon receipt of the approving authority's written approval to abandon the system, the septic tank shall be pumped of its entire contents by a licensed septage hauler; and
 - The tank shall be excavated and removed from the site, or the bottom of the tank shall be opened or ruptured after being pumped of its contents so as to prevent retainage of water and the tank shall be completely filled with clean sand.

BLACKSTONE STREET

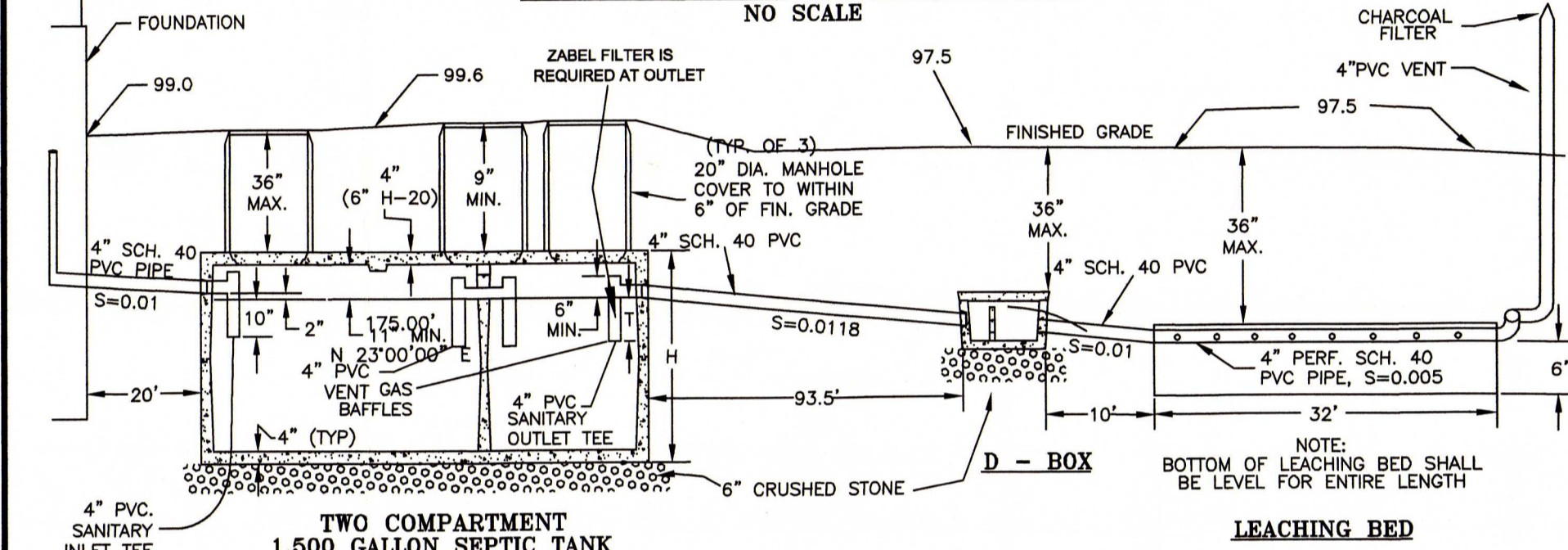


NOTE:

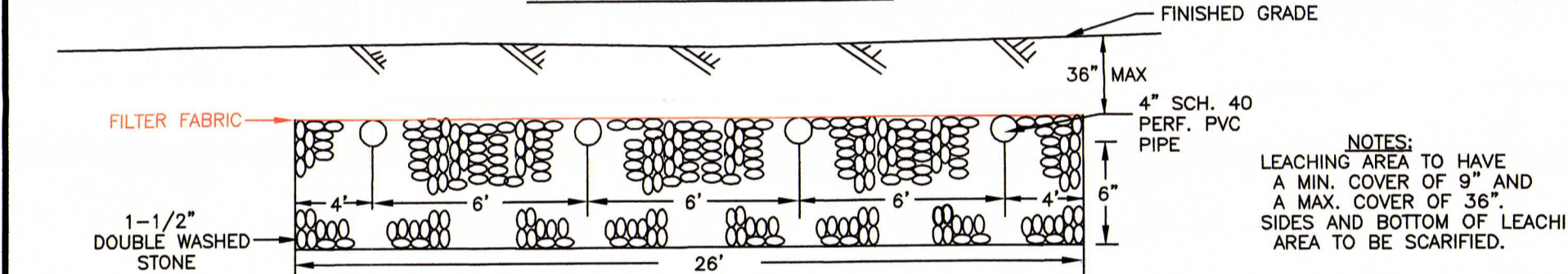
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIG SAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIG SAFE 1-888-DIG-SAFE



PROFILE OF SYSTEM



BED DETAIL



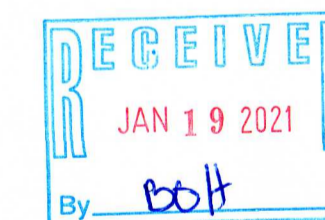
SOIL TEST RESULTS

TP #1	DATE: 10/27/20	GROUND 95.8		
SOIL HORIZONS	SOIL DEPTH	SOIL COLOR	SOIL TEXTURE	ELEVATION
A	0"-5"	7.5YR3/2	FSL	95.38
B	5"-40"	7.5YR6/8	SL	92.46
C	40"-104"	2.5Y7/2	LS	87.13
NO MOTTLES	40"			92.46

SOIL EVALUATOR MIKE CATALANO
WITNESSED BY LENNY IZZO

REMARKS

BREAKOUT ELEV. = 96.62', 15' AWAY AT 3' TO 1' SLOPE.
REQUEST WAIVER FROM SEPARATION TO WATER TABLE (4' TO 3').



SCHEDULE OF ELEVATIONS

Top of Found. (T.C.)	100.85
Basement Floor	93.3
Invert of Pipe at Found.	97.95
Invert at S. Tank Inlet	97.75
Invert at S. Tank Outlet	97.50
Invert at D. Box Inlet	96.39
Invert at D. Box Outlet	96.22
Invert at Leach. Lines (Beg.)	96.12
Invert at Leach Lines (End)	95.96
Elevation of Bed Bottom	95.46
Finish Grade Over Leach Area (F.G.)	95.0 - 96.0

PERCOLATION RESULTS

NO.	DEPTH	RATE	DATE	BY	INSP.
PERC 1	42"/18"	20 MIN/IN	10/27/20	M.C.	L.I.

PROPOSED LOCAL UP-GRADE SEWAGE DISPOSAL SYSTEM
18 BLACKSTONE STREET
MENDON, MA.
 MAP 12 PARCEL 18

COLONIAL ENGINEERING, INC.
 PO BOX 95
MEDWAY, MA. 02053
PH. 508-533-1644
FAX 508-533-1645

DATE: 10/28/20 SCALE: 1" = 20'

OWNER: David & Lorna Palmer
 ADDRESS: 18 Blackstone Mendon, Ma. 01756

DEED BK. 35634 PG. 151

REVISION	DATE	BY