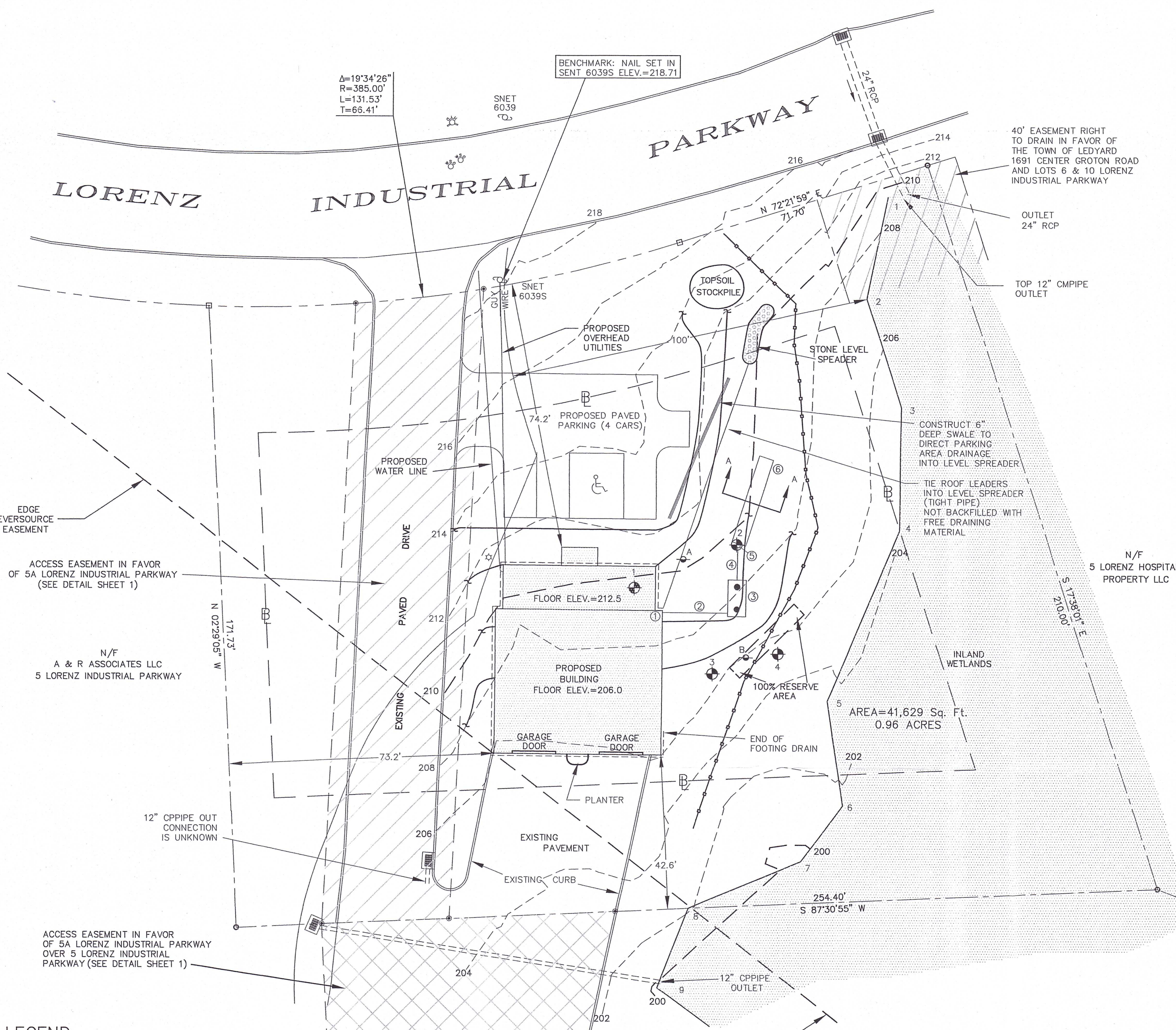
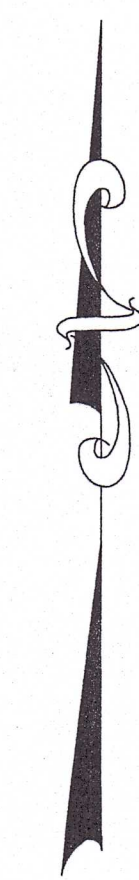
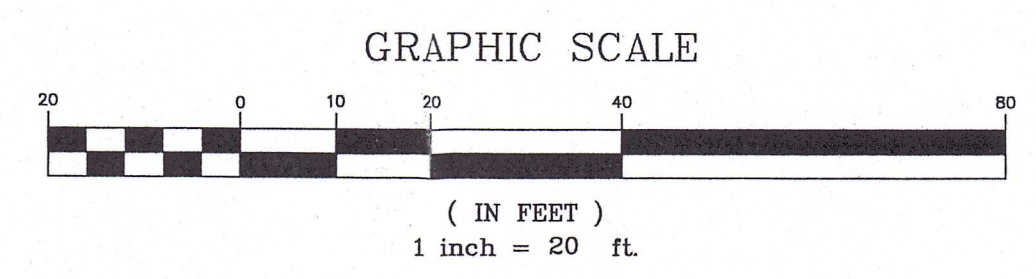
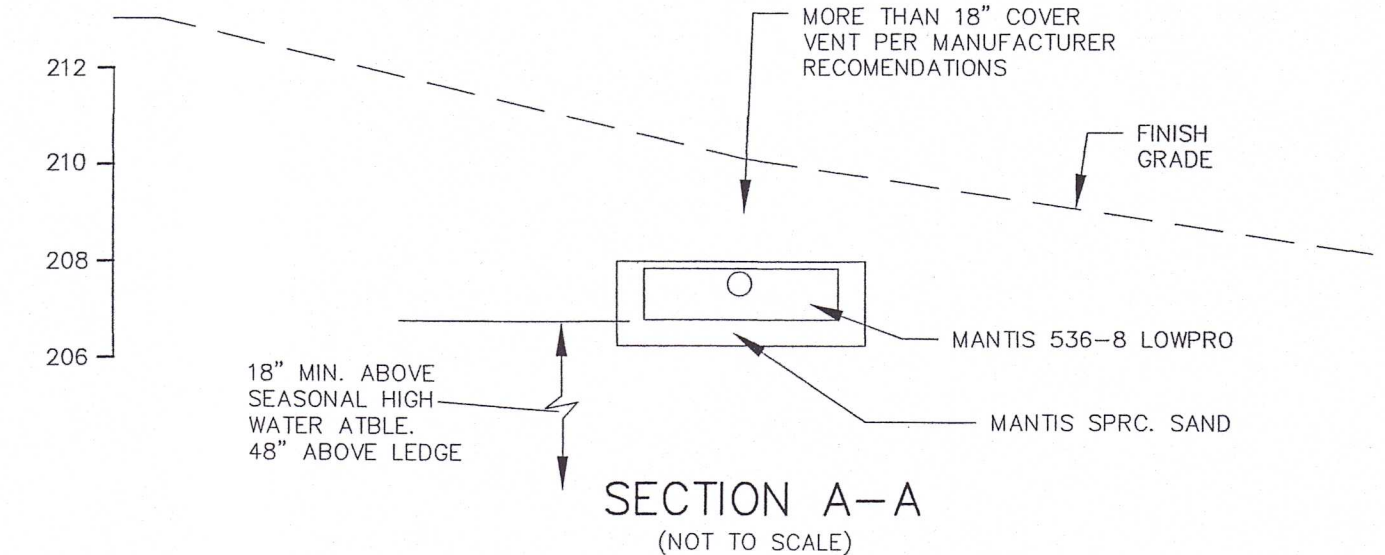




LEGEND

- PROPERTY LINE
- STREET LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- BUILDING SETBACK LINE
- DEEP TEST PIT LOCATION
- PERCOLATION TEST LOCATION
- UTILITY POLE
- CATCH BASIN
- SILTS/FENCE/HAYBALES/WOODCHIPS
- EDGE OF WETLANDS & FLAG NUMBER
- CURBING
- WATER GATE
- HYDRANT



THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF THE PROFESSIONAL OPINION BY THE LAND SURVEYOR WHICH IS BASED ON HIS OR HER BEST KNOWLEDGE, INFORMATION AND BELIEF. AS SUCH IT CONSTITUTES NEITHER GUARANTEE OR WARRANTY. THE STONE WALLS AND/OR FENCES SHOWN AS BOUNDARIES MAY HAVE IRREGULARITIES OF COURSE BETWEEN PRINCIPAL POINTS OF COURSE INDICATED.

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EMAIL: DIETER.GARDNER@YAHOO.COM

DEEP TEST PIT DATA

WITNESSED AND RECORDED BY CHERYL HAASE RS, LEDGE LIGHT HEALTH DISTRICT ON JULY 21, 2021.

TEST PIT 1 0-8" TOPSOIL 8-31" ORANGE-BROWN FINE SANDY LOAM 31-84" LIGHT BROWN MED-FINE SAND/GRAVEL (LARGE BOULDERS THROUGHOUT)	TEST PIT 2 0-10" TOPSOIL W/ FINE ROOTS 10-30" ORANGE FINE SANDY LOAM 30-84" LIGHT BROWN MED-COARSE SAND/GRAVEL
NO MOTTLING NO GROUNDWATER NO LEDGE	NO MOTTLING NO GROUNDWATER NO LEDGE
TEST PIT 3 0-16" TOPSOIL W/ LEAF DEBRIS 16-22" ORANGE FINE SANDY LOAM 22-80" TAN-GRAY SAND W/SILT (COMPACT)	TEST PIT 2 0-12" TOPSOIL 12-24" ORANGE FINE SANDY LOAM 24-64" LIGHT BROWN MED-COARSE SAND/GRAVEL
MOTTLING AT 18" GROUNDWATER 80", SEEPAGE AT 26" NO LEDGE	NO MOTTLING NO GROUNDWATER LEDGE AT 64"

PERCOLATION TESTS
PERFORMED BY DIETER & GARDNER, INC. ON AUGUST 2, 2021.

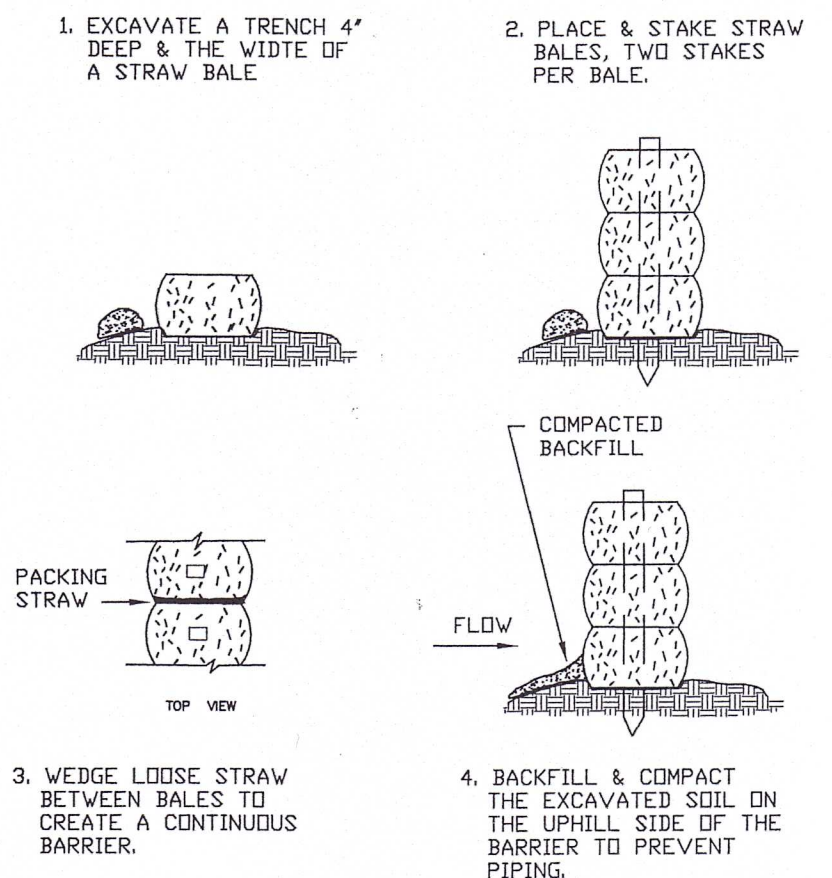
TIME	READING	TIME	READING
10:31	0"	10:31	0"
10:36	2 1/2"	10:36	4 1/2"
10:41	4 1/2"	10:41	8 1/2"
10:46	6 1/2"	10:46	11"
10:51	7 1/2"	10:51	12"
10:56	8 1/2"	10:56	13"
11:01	9 1/2"	11:01	14"
11:06	10 1/2"	11:06	15"
11:11	11 1/8"		

PERCOLATION RATE: 10.0 MIN./INCH

- SANITARY DESIGN CRITERIA
- PROPOSED 430 SQ. FT. OFFICE (430; 200 SQ. FT. GROSS AREA/PERSON) = 2.15 EMPLOYEES X 20 GPD = 43 GPD
GARAGE AREA (INDUSTRIAL BUILDING) 1840 SQ. FT. X 0.1 GPD = 184 GPD
TOTAL = 227 GPD. (PER TABLE IV OF THE CODE)
 - 1000 GALLON TWO COMPARTMENT SEPTIC TANK REQUIRED BY CODE AND PROVIDED.
 - DESIGN PERCOLATION RATE: 10.0 MIN./IN.
 - MINIMUM LEACHING SYSTEM SPREAD: NOT APPLICABLE
APPLICATION RATE (TABLE B) 1.5 GPD PER S.F. 227 GPD/1,5=151.3 S.F. ELA
 - EFFECTIVE LEACHING AREA REQUIRED PER CODE: 152 S.F.
 - MANTIS 536-8 LOW PRO SELECTED FOR PRIMARY SYSTEM DESIGN.
EFFECTIVE LEACHING AREA PROVIDED PER L.F. PER CODE: 6.5 S.F./L.F.
MINIMUM LENGTH OF TRENCH REQUIRED: 152 S.F./ 6.5 S.F./L.F. = 23.4'
 - EFFECTIVE LEACHING AREA PROVIDED:
1 - ROW - 25' LONG MANTIS 536-8 LOW PRO 1 X 25' X 6.5 S.F./L.F. = 162.5 S.F.
 - 100% RESERVE AREA REQUIRED AND PROVIDED AS 25' LONG 536-8 MANTIS LOW PRO.

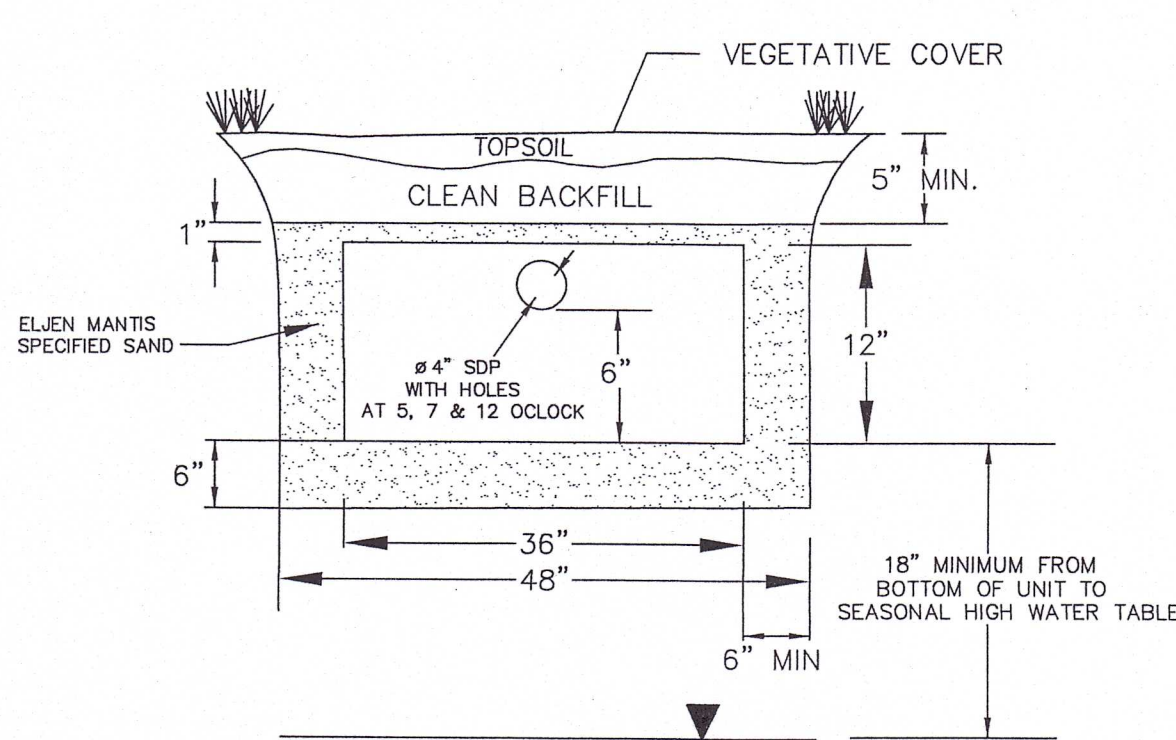
SANITARY ELEVATION DATA:

- SANITARY INVERT AT FOUNDATION: 208.75
- 18"-4" DIA. SCHEDULE 40 ASTM D1785 OR EQUAL PIPE (MIN. SLOPE = 1/4" PER FT.)
- 1000 GALLON TWO COMPARTMENT SEPTIC TANK
INVERT IN: 208.25
INVERT OUT: 208.00
- 9" - 4" DIA. SDR 35 PVC PIPE
- "D" BOX
INVERT IN: 207.50
INVERT OUT: 207.30
- 25' LONG MANTIS 536-8 LOW PRO
BOTTOM TRENCH ELEV: 206.80
TRENCH INV.: 207.30

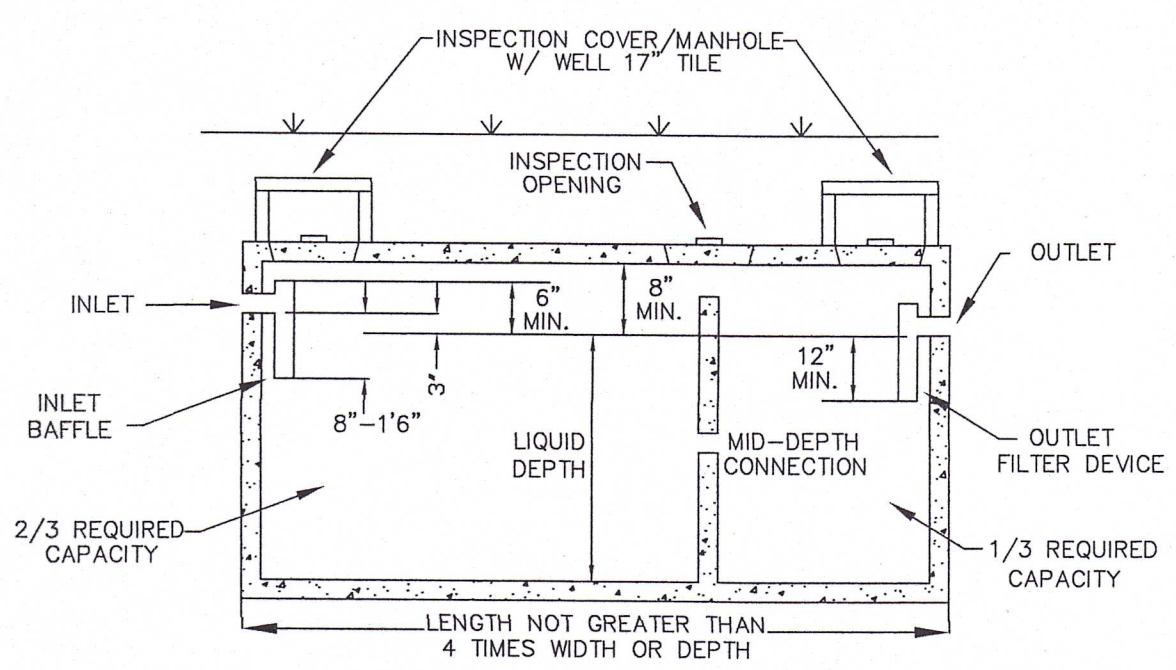


CONSTRUCTION OF A STRAW BALE BARRIER
NOT TO SCALE

MANTIS 536-8 LowPro CROSS SECTION

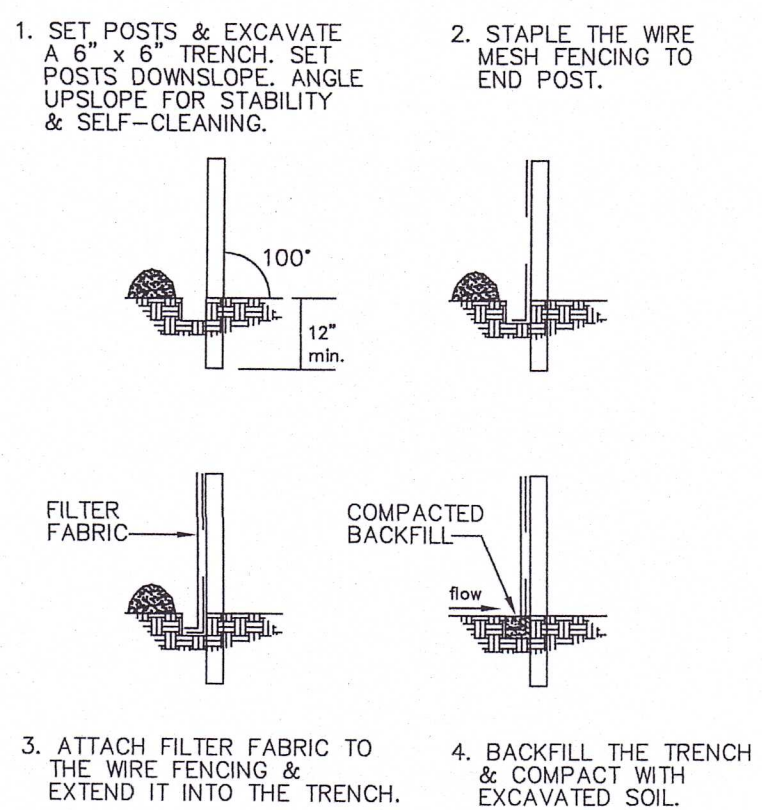


NOTE: VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE
NOT TO SCALE



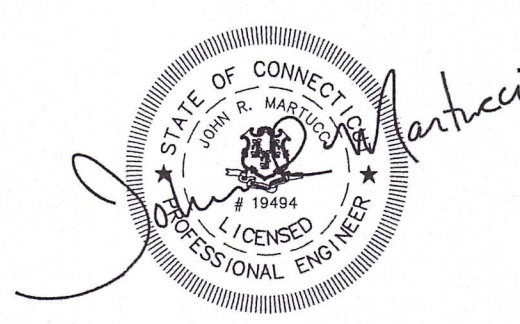
NOTE: CLEANOUT MANHOLES AND ALL BAFFLED INSPECTION MANHOLES SHALL BE LOCATED AT A DEPTH NOT GREATER THAN 12" BELOW FINAL GRADE.

SEPTIC TANK DETAIL
NOT TO SCALE



FILTER FABRIC SEDIMENT BARRIER
NOT TO SCALE

PLAN SHOWING
PROPOSED BUILDING
ON PROPERTY OF
A & R ASSOCIATES INC.
5A LORENZ INDUSTRIAL PARKWAY
LEDYARD, CONNECTICUT
SCALE: 1"=20'
OCTOBER 2024



THIS MAP AND SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-3008-1 THROUGH 20-3008-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES-MINIMUM STANDARDS OF ACCURACY, CONTENT AND CERTIFICATION FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT, ADOPTED EFFECTIVE JUNE 21, 1996, REVISED OCTOBER 28, 2018. IT IS A BOUNDARY SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2, TOPOGRAPHIC ACCURACY T-2, TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

TITLE: LAND SURVEYOR CT No. 14208
DATE: OCTOBER 1, 2024