

NOTE: SINGULAR SEPTIC TANK TREATMENT UNIT AND ELECTRICAL COMPONENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND DEP GENERAL USE CERTIFICATION DATED JANUARY 9, 2019, MODIFIED OCTOBER 2, 2019, TRANSMISSION NO. X281247.

TEST PIT DATA

DATE OF SOIL EVALUATIONS: MARCH 4, 2025
 SOIL EVALUATOR: JAY MCKINNON, C.S.E.
 ENGINEERING FIRM: SCHNEIDER, DAVIGNON & LEONE, INC.
 INSPECTOR: DAVID FLAHERTY, HEALTH AGENT

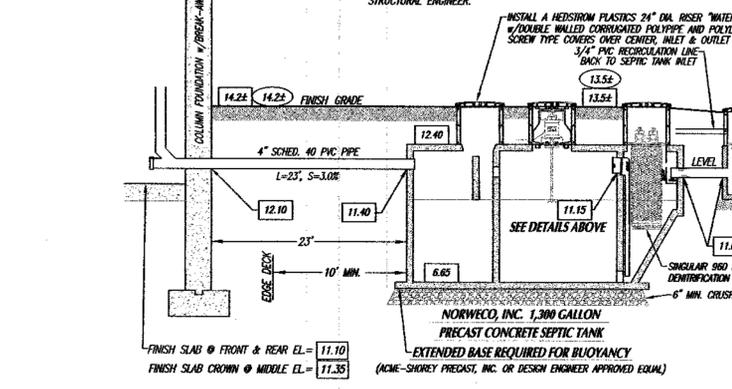
TEST PIT #	Elevation						
0'	13.7	0'	14.2	0'	11.7	0'	13.7
10'	12.9	9'	13.4	12'	10.7	10'	12.9
20'	11.4	27'	11.9	19'	10.1	20'	11.4
30'	11.4	36'	11.9	24'	8.7	30'	11.4
120'	3.7	120'	4.2	120'	3.4	120'	3.7

DEPTH OF HORIZONTAL PERMEABILITY TESTS: SEE NOTES
 EL = 11.4

DEPTH TO TOP PERC TEST: N/A
 PERC RATE: N/A
 SOIL TEXTURAL CLASS: CLASS 1
 DEPTH TO SOIL MOTTLING: NONE
 DEPTH TO WEEPING: NONE

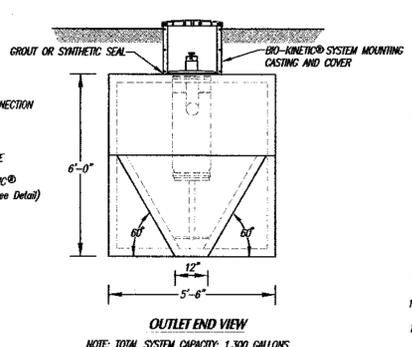
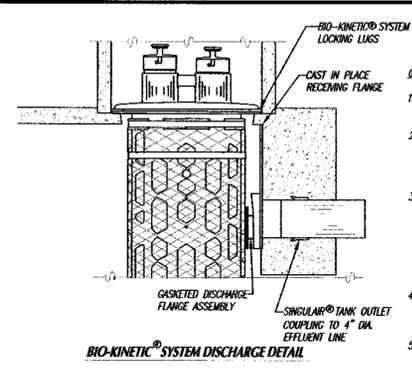
FOUNDATION CONSTRUCTION NOTES:

- THE PROPOSED DWELLING IS LOCATED IN FLOOD ZONE VE EL. 18 (N.A.V.D. Datum of 1988).
- THE LOWEST STRUCTURAL MEMBER SHALL BE SET AT OR ABOVE ELEVATION 21.0 (+3 F.L).
- THE PROPOSED FINISH CONCRETE SLAB ELEVATION = 11.1 @ FRONT & REAR & 11.35 @ MIDDLE.
- THE PROPOSED FOUNDATION SHALL BE AN OPEN COLUMN TYPE FOUNDATION DESIGNED BY A STRUCTURAL ENGINEER IN COMPLIANCE WITH FEMA AND MASS BUILDING CODE FOR CONSTRUCTION WITHIN A VELOCITY ZONE.
- BREAKAWAY PANELS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER IN COMPLIANCE WITH FEMA & MASS BUILDING CODE.
- THE NUMBER AND LOCATION OF COLUMNS OR PILES SHALL BE DETERMINED BY THE STRUCTURAL ENGINEER.

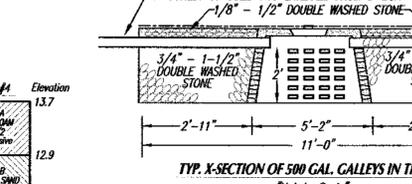


IF REQUIRED - REMOVE AND REPLACE NOTE:

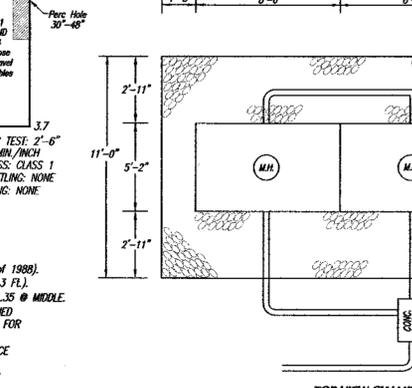
WHERE REQUIRED, CONTRACTOR IS TO REMOVE ALL LOAM, SUBSOIL AND OTHER UNSUITABLE MATERIAL IN THE AREA BENEATH AND FOR 5 FT. ON ALL SIDES OF THE LEACHING FACILITY. EXCAVATED MATERIAL IS TO BE REPLACED WITH CLEAN COARSE SAND FREE FROM CLAY, FINES, OR OTHER UNSUITABLE MATERIAL. IN ACCORDANCE WITH 310CMR 15.25(3) CONTRACTOR SHALL PROVIDE A SIEVE ANALYSIS OF FILL MATERIAL. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE. UP TO 40% WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS SHALL BE PERFORMED ON A FRACTION OF SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS AS LISTED TO THE RIGHT.



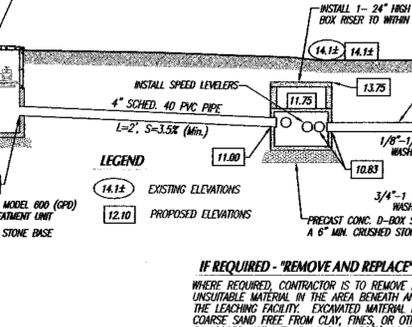
NOTE: TOTAL SYSTEM CAPACITY: 1,300 GALLONS
 RATED CAPACITY: 500/600 GALLONS PER DAY



NOTE: GALLEYS SHALL BE REINFORCED WITH 6x6x6 GAUGE WIRE MESH



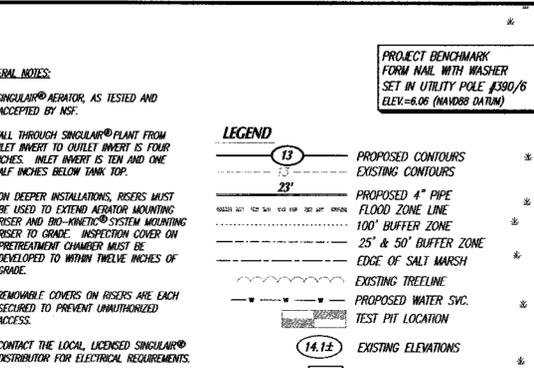
TYP. PRECAST CONCRETE 500 GAL. LEACHING GALLEYS



SIEVE SIZE

SIEVE SIZE	% THAT MUST PASS SIEVE
#4	100%
#10	100-100%
#20	0%-20%
#40	0%-5%

BOTTOM OF EXCAVATION SHOULD BE LEVEL AND INTO HORIZON C1.
 COARSE SAND STRATA REMAINING HORIZON A AND HORIZON B.
 (ELEVATION TO BE VERIFIED BY ENGINEER IN FIELD PRIOR TO INSTALLATION)
 TOP OF FILL PER NOTE WOULD EXTEND TO EL. = 11.35 TOP OF CHAMBERS.
 APPROX. VOLUME OF TITLE 5 SAND REQUIRED = 0 Cu.Yds. (20% Compaction Allowance)

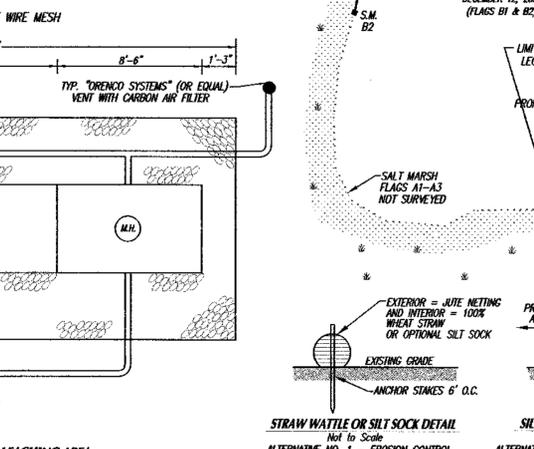


GENERAL NOTES:

- SINGULAR® AERATOR, AS TESTED AND ACCEPTED BY NSF.
- FALL THROUGH SINGULAR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TEN AND ONE HALF INCHES BELOW TANK TOP.
- ON DEEPER INSTALLATIONS, RISERS MUST BE USED TO EXTEND AERATOR MOUNTING RISER AND BIO-KINETIC® SYSTEM MOUNTING RISER TO GRADE. INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- REMOVABLE COVERS ON RISERS ARE EACH SECURED TO PREVENT UNAUTHORIZED ACCESS.
- CONTACT THE LOCAL LICENSED SINGULAR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS SHALL CONFORM TO 310 CMR TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND ANY APPLICABLE LOCAL REGULATIONS.
- ANY AND ALL CHANGES TO THIS DESIGN PLAN MUST BE APPROVED BY THE DESIGN ENGINEER AND BOARD OF HEALTH.
- ON DEEPER INSTALLATIONS, RISERS MUST BE USED TO EXTEND AERATOR MOUNTING RISER AND BIO-KINETIC® SYSTEM MOUNTING RISER TO GRADE. INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
- CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION THROUGH DIG SAYS AND OTHER APPROPRIATE AGENCIES, AND REPORT ANY DISCREPANCIES TO DESIGN ENGINEER.
- CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER OF ANY AND ALL DISCREPANCIES FOUND BETWEEN THE SITE CONDITIONS AND THOSE SHOWN ON DESIGN PLAN PRIOR TO THE COMMENCEMENT OF WORK.
- SEPTIC SYSTEM COMPONENTS SHALL BE H-10 PRODUCTS IF LOCATED UNDER DRIVEWAY, PARKING OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC. ALL OTHER SYSTEM COMPONENTS SHALL BE H-10 PRODUCTS.
- GROUND OR CAST IN PLACE RUBBER FOOT IS TO BE USED WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATER-TIGHT SEAL.
- USE ALL SCHEDULE 80 PIPE UNDER DRIVEWAY AND SCHEDULE 40 AS SPECIFIED.
- THE MINIMUM SLOPE PER TITLE 5 FOR ALL 4\"/>



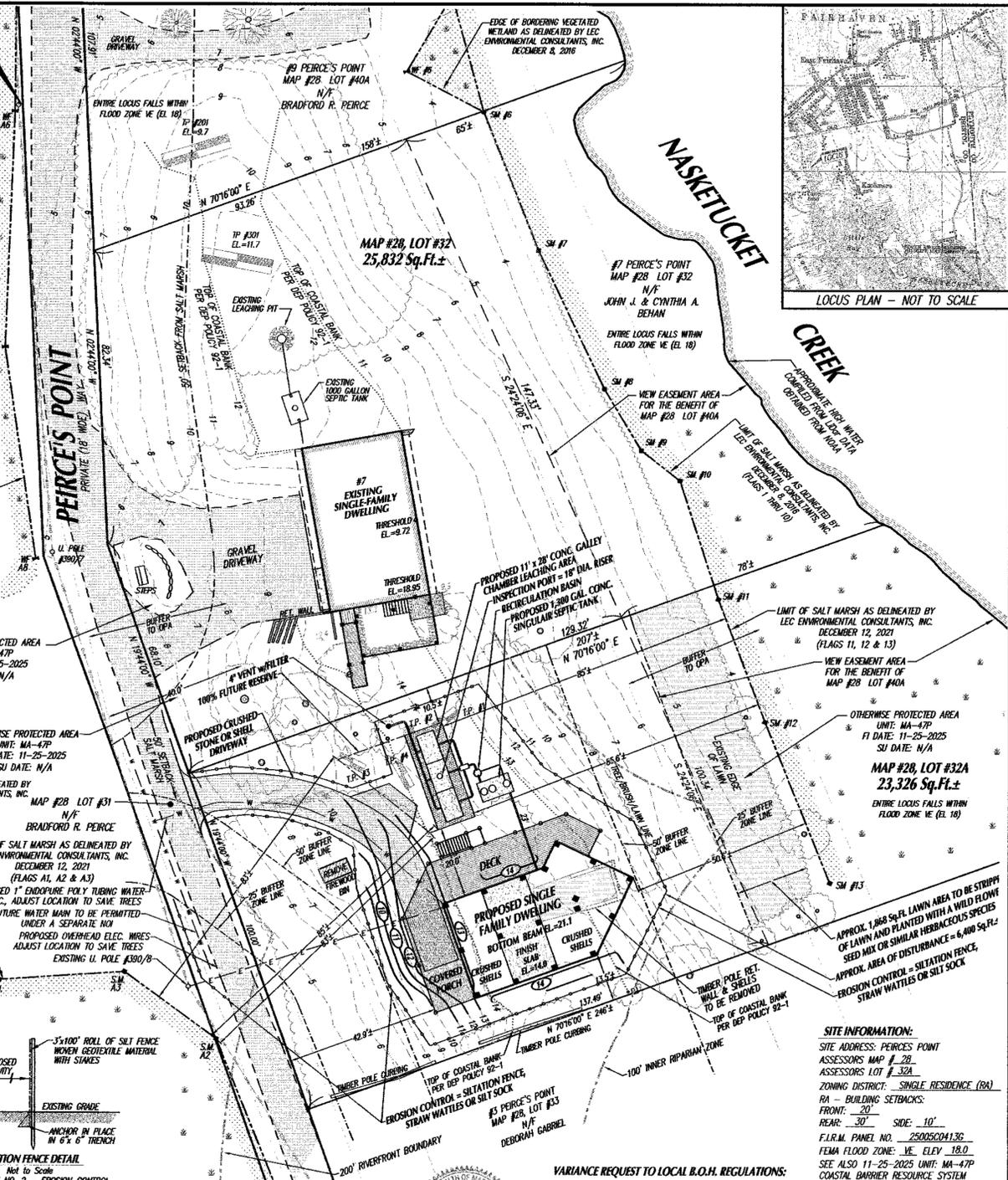
SEWAGE DISPOSAL SYSTEM DESIGN DATA

FLOW REQUIREMENTS:
 EXISTING NUMBER OF BEDROOMS: THREE (3)
 DAILY DESIGN FLOW PER TITLE 5: 110 GALLONS/BEDROOM/DAY
 MINIMUM DESIGN FLOW REQUIRED: 110 GAL./BEDRM x 3 BEDROOMS = 330 GAL./DAY

SEPTIC TANK SIZE:
 TITLE 5: 330 GAL. x 2008 = 660 GALLONS
 INSTALL A NORWECO CO. 1,300 GAL. PRECAST CONCRETE SEPTIC TANK WITH A SINGULAR DENITRIFICATION WASTEWATER TREATMENT UNIT

TYPICAL CHAMBER LEACHING FIELDS:
 DESIGN SOIL TEXTURAL CLASS: CLASS 1
 DESIGN PERCOLATION RATE: 1 INCH IN 5 MINUTES
 LONG TERM ACCEPTANCE RATE: 0.74

REQUIRED LEACHING AREA: 330 GAL./DAY Divided By LTR: 0.74 = 446 Sq.Ft.
 LEACHING AREA PROVIDED: 11' WIDE X 28' LONG X 2'-0\"/>



SITE INFORMATION:

SITE ADDRESS: PEIRCES POINT
 ASSESSORS MAP # 28
 ASSESSORS LOT # 32A
 ZONING DISTRICT: SINGLE RESIDENCE (RA)
 RA BUILDING SETBACKS:
 FRONT: 20'
 REAR: 30'
 SIDE: 10'
 F.I.R.M. PANEL NO.: 2500SC0413C
 FEMA FLOOD ZONE: VE, ELEV. 18.0
 SEE ALSO 11-25-2025 UNIT: MA-47P
 COASTAL BARRIER RESOURCE SYSTEM

OWNER OF RECORD:
 JOHN J. & CYNTHIA A. BEHAN
 REVOCABLE LIVING TRUST AGREEMENT
 70 WHITE STREET
 SARATOGA SPRINGS, NY 12886
 L.C. CERT. #26655

VARIANCE REQUEST TO LOCAL B.O.H. REGULATIONS:
 TOWN OF FAIRHAVEN BOARD OF HEALTH REGULATIONS:
 CHAPTER 5, SECTION 14:
 LEACHING AREA SETBACK VS. 100' AND
 100% FUTURE RESERVE AREA 83' VS. 100'
 DENITRIFICATION TREATMENT SYSTEM IS PROPOSED

SEWAGE DISPOSAL SYSTEM - SITE PLAN
 FOR PROPERTY LOCATED
 at PEIRCES POINT in
 FAIRHAVEN, MA.
 PREPARED FOR
 JOHN J. BEHAN AND CYNTHIA A. BEHAN
 REVOCABLE LIVING TRUST AGREEMENT

SCALE: 1"=20'
 DATE: DECEMBER 23, 2025

SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 P.O. Box 480, 81A COUNTY ROAD, UNIT G, MATTAPOISETT, MA 02739
 1-508-758-7866

Drawn By: D.M.D. Check By: D.M.D. Job No. 3587