

- LEGEND**
- PROPOSED CONTOURS
 - EXISTING CONTOURS
 - EXISTING TREE LINE
 - WATER SVC. LINE
 - TEST PIT LOCATION
 - EXISTING ELEVATIONS
 - PROPOSED ELEVATIONS



- TITLE 5 VARIANCES REQUESTED:**
- 1) 310 CMR 15.211, MINIMUM SETBACK DISTANCES: LEACHING AREA SEPARATION FROM STREET LINE: REQUESTING A 5 FL SETBACK VS. THE 10 FL MIN. REQUIREMENT
 - 2) 310 CMR 15.211, MINIMUM SETBACK DISTANCES: SEPTIC TANK SEPARATION FROM STREET LINE: REQUESTING A 2 FL SETBACK VS. THE 10 FL MIN. REQUIREMENT

Rev #	DATE	BY	DESCRIPTION
2	8-16-23	D.M.D.	ADD PROPOSED ENCLOSED FRONT PORCH
1	3-17-22	D.M.D.	NOTE PATIOS & STEPS TO BE REMOVED/RELOCATED, MOVE 0-BOX & ADD 2nd OUTLET PIPE PER B.O.71

SEWAGE DISPOSAL SYSTEM REPAIR - SITE PLAN
 FOR PROPERTY LOCATED ON
4 WAREHAM LAKE SHORE DRIVE
 IN WAREHAM, MA.
 PREPARED FOR
ROBERT J. & JEANNINE PERRY
SHEET 1 OF 2 SHEETS

SCALE: 1"=10'
 DATE: FEBRUARY 28, 2022

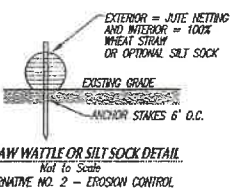
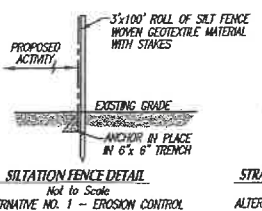
SCHNEIDER, DAVIGNON & LEONE, INC.
 PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
 1 COUNTY RD, P.O. BOX 480, MATTAPOSETT, MA 02729
 1-508-755-7886

Drawn By: D.M.D. Check By: D.M.D. Job No. 3142



SITE INFORMATION:
 SITE ADDRESS: 4 WAREHAM LAKE SHORE DRIVE
 ASSESSORS MAP # 120
 ASSESSORS LOT # 35
 CURRENT ZONING DISTRICT: R-130
 BUILDING SETBACKS:
 FRONT: 50' SIDE: 20'
 REAR: 20'

APPLICABLE BUILDING SET BACKS PER ARTICLE 6 SEC. 62B CATEGORY 3
 FRONT: 20' SIDE: 10'
 REAR: 10'
 FEMA FLOOD ZONE: X, A, ELEV. N/A
 F.L.R.M. PANEL NO.: 2502300492X
 APPLICANT/OWNER OF RECORD:
 ROBERT J. & JEANNINE PERRY
 4 WAREHAM LAKE SHORE DRIVE
 E. WAREHAM, MA 02538
 SEE DEED BOOK 18024, PAGE 183



- GENERAL CONSTRUCTION NOTES:**
- 1) CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY EXCAVATION THROUGH "DIG SAFE" AND OTHER APPROPRIATE AGENCIES, AND REPORT ANY DISCREPANCIES TO THIS OFFICE.
 - 2) CONTRACTOR SHALL NOTIFY THIS OFFICE OF ANY AND ALL DISCREPANCIES FOUND BETWEEN THE SITE CONDITIONS AND THOSE SHOWN ON THIS PLAN PRIOR TO THE COMMENCEMENT OF WORK.
 - 3) ANY AND ALL CHANGES FROM THE SITE DESIGN LAYOUT SHOWN MUST BE APPROVED BY THIS OFFICE AND OTHER APPROPRIATE LOCAL OFFICIALS.

SEWAGE DISPOSAL SYSTEM DESIGN DATA

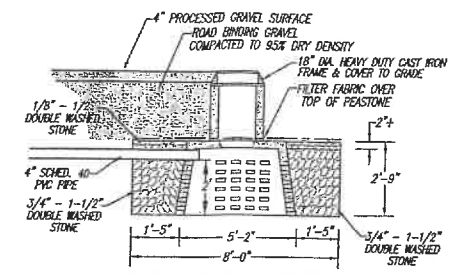
FLOW REQUIREMENTS:
 EXISTING NUMBER OF BEDROOMS: FOUR (4)
 TO BE DOWNSIZED 1 BEDROOM
 PROPOSED NUMBER OF BEDROOMS: THREE (3)
 DAILY DESIGN FLOW PER TITLE 5: 110 GAL/BEDROOM/DAY = 330 GAL/DAY

SEPTIC TANK SIZE:
 TITLE 5: 330 GAL X 200% = 660 GALLONS
 INSTALL A 1,500 GAL. CONCRETE 2-COMPARTMENT SEPTIC TANK IN COMPLIANCE WITH MICRO F.A.S.T. 0.5 REQUIREMENTS

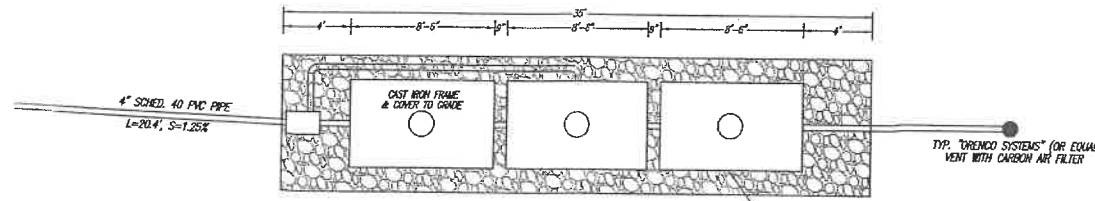
TYPICAL CHAMBER LEACHING FIELD:
 DESIGN SOIL TEXTURAL CLASS: CLASS 1
 DESIGN PERCOLATION RATE: 1 INCH IN 5 MINUTES
 LONG TERM ACCEPTANCE RATE: 0.24
 REQUIRED LEACHING AREA: 330 GAL/DAY Divided By LTR: 0.24 = 446 Sq.Ft.

EFFECTIVE LEACHING AREA:
 BOTTOM AREA = 8'-0" Wide x 35'-0" Long = 280 Sq.Ft.
 SIDEWALL AREA = (8'-0" + 35'-0") x 2 x 2' Depth = 172 Sq.Ft.
 452 Sq.Ft. x 0.24 GAL/Sq.Ft. = 334 GAL LEACHING/DAY

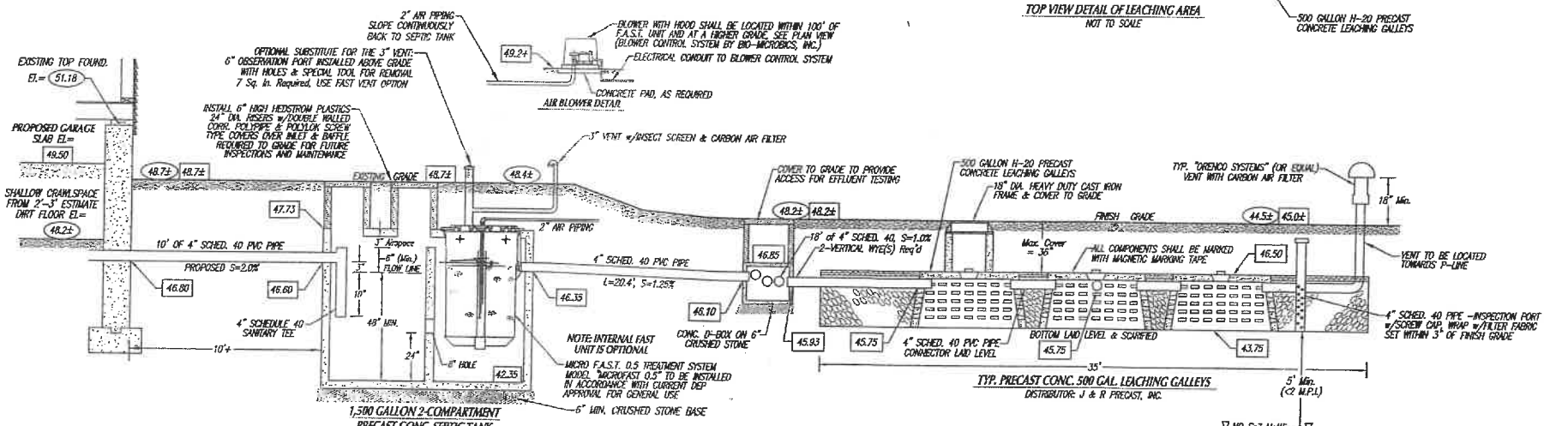
TOTALS:
 TOTAL NUMBER OF TRENCHES = 1
 TOTAL NUMBER OF LATERALS = 1
 TOTAL NUMBER OF 500 GAL CONC. GALLEYS = THREE (3)
 TOTAL LEACHING AREA = 452 Sq.Ft.
 TOTAL LEACHING CAPACITY = 334 > 330 GAL/DAY



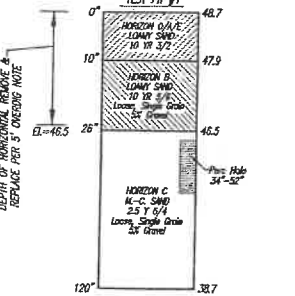
X-SECTION OF GALLEYS IN TRENCH
 NOT TO SCALE
 NOTE: GALLEYS SHALL BE REINFORCED WITH 6x6x6 GAUGE WIRE MESH



TOP VIEW DETAIL OF LEACHING AREA
 NOT TO SCALE



TEST PIT DATA
 DATE OF SOIL EVALUATION: JUNE 27, 2019
 SOIL EVALUATOR: JIM MARRON, C.S.E.
 ENGINEERING FIRM: SCHNEIDER, DAVIGNON & LEONE, INC.
 INSPECTOR: JOHN VIVERO, HEALTH AGENT



"IF REQUIRED" (SYSTEM TO BE SET INTO HORIZON C LAYER)
"REMOVE AND REPLACE" NOTE:
 WHERE REQUIRED, CONTRACTOR IS TO REMOVE ALL LOAM, SILT AND OTHER UNSATURABLE MATERIAL IN THE AREA BENEATH AND FOR 5 FEET ON ALL SIDES OF THE LEACHING FACILITY. EXCAVATED MATERIAL IS TO BE REPLACED WITH CLEAN COARSE SAND FREE FROM CLAY, FINES, OR OTHER UNSATURABLE MATERIAL. IN ACCORDANCE WITH 310 CMR 15.00(5) CONTRACTOR SHALL PROVIDE A SEIVE ANALYSIS OF FILL MATERIAL. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SEIVE ANALYSIS USING A #4 SEIVE SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE. UP TO 45% BY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SEIVE. SEIVE ANALYSIS ALSO SHALL BE PERFORMED ON A FRACTION OF SAMPLE PASSING THE #4 SEIVE. SUCH ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS AS LISTED TO THE RIGHT.

SEIVE SIZE	% THAT MUST PASS SEIVE
#4	100%
#50	100-100%
#100	0%-20%
#200	0%-5%

IF REQUIRED - BOTTOM OF EXCAVATION TO BE LEVEL INTO HORIZON C MEDIUM-COARSE SAND STRATA @ 26'
 (ELEVATION TO BE VERIFIED BY ENGINEER IN FIELD PRIOR TO INSTALLATION)
 TOP OF FILL PER NOTE TO EXTEND TO EL. = 46.5 TOP OF CHAMBERS
 APPROX. VOLUME OF TITL 5 SAND REQUIRED = 0 Cu.Yds. (20% Compaction Allowance)
 APPROX. VOLUME OF C-33 SYSTEM SAND REQUIRED = 0 Cu.Yds. (20% Compaction Allowance)

SEPTIC CONSTRUCTION NOTES:

- UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS SHALL CONFORM TO 310 CMR 15.00, 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.
- DESIGN ENGINEER AND LOCAL BOARD OF HEALTH ARE TO BE NOTIFIED PRIOR TO BACKFILLING WHEN THE SYSTEM IS NEARLY COMPLETE AND READY FOR INSPECTION. THE SYSTEM IS NOT TO BE BACKFILLED WITHOUT FIRST OBTAINING APPROVAL FROM THE BOARD OF HEALTH AND DESIGN ENGINEER.
- SEPTIC SYSTEM COMPONENTS SHALL BE H-20 PRODUCTS IF LOCATED UNDER DRIVEWAY, PARKING OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC. ALL OTHER SYSTEM COMPONENTS SHALL BE 15-10 PRODUCTS.
- GROUT OR CAST IN PLACE RUBBER BOOT IS TO BE USED WHERE PIPES ENTER OR LEAVE ALL CONCRETE STRUCTURES IN ORDER TO PROVIDE A WATERPROOF SEAL.
- USE ALL SCHEDULE 40 PIPE UNLESS OTHERWISE SPECIFIED.
- THE MINIMUM SLOPE PER TITLE 5 FOR ALL 4" SCHEDULE 40 PIPE = 1.0%.
- THIS SYSTEM IS NOT DESIGNED FOR A GARAGE DISPOSAL UNIT, WATER SOFTENER OR OTHER HIGH WATER USAGE.
- ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE.



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