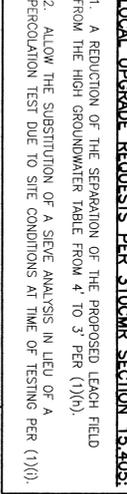


GENERAL NOTES

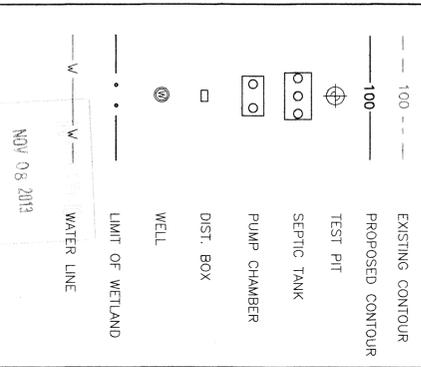
- THIS SEWAGE DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REGULATIONS OF TITLE 5 OF THE STATE ENVIRONMENTAL CODE AND THE REGULATIONS OF THE LOCAL BOARD OF HEALTH.
- THE LOCAL BOARD OF HEALTH AND THIS FIRM ARE TO BE NOTIFIED:
 - PRIOR TO BEGINNING CONSTRUCTION IN THE EXCAVATION FOR THE PURPOSE OF SOIL EXAMINATION TO INSURE CONTINUITY OF PERMEABLE MATERIAL.
 - PRIOR TO BACKFILLING THE COMPLETED SYSTEM FOR THE PURPOSE OF PERFORMING AN AS-BUILT INSPECTION.
 - PRIOR TO CONSTRUCTING THE SYSTEM IN A MANNER OTHER THAN SHOWN ON THIS DESIGN.
- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION THROUGH DIG SAFE AND OTHER APPROPRIATE AGENCIES. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ALL SEPTIC SYSTEM COMPONENTS SHALL WITHSTAND H-10 OR H-20 LOADING AS NOTED ON PLAN.
- WHERE REQUIRED CONTRACTOR WILL REMOVE ALL LOAM, SUBSOIL, AND OTHER UNSUITABLE MATERIAL IN THE AREA BENEATH AND FOR 5 FEET ON ALL SIDES OF THE LEACHING FACILITY. THE CONTRACTOR SHALL REPLACE ALL UNSUITABLE MATERIAL WITH CLEAN COARSE SAND FREE FROM CLAY, FINES OR OTHER UNSUITABLE MATERIAL. REPLACEMENT MATERIAL TO HAVE AN INPLACE PERC RATE OF TWO MINUTES.
- SCHEDULE 40 PVC PIPE WITH TIGHT JOINTS TO BE USED IN DISPOSAL SYSTEM UNLESS OTHERWISE NOTED.
- THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL OR WATER CONDITIONERS. WATER CONDITIONERS SHALL DISCHARGE TO A DRAIN.
- CONTRACTOR IS TO VERIFY BENCH MARK, EXISTING INVERTS, AND TOP OF FOUNDATION PRIOR TO ANY EXCAVATION AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER.
- CONTRACTOR IS TO MARK ALL ELBOWS AND INSPECTION PORT WITH MAGNETIC TAPE.
- ALL COVERS TO GRADE ARE TO BE WATERIGHT AND SECURABLE.
- THE EFFLUENT FILTER INSTALLED REQUIRES ROUTINE MAINTENANCE TO PREVENT BACKUP.
- THE CONTRACTOR IS TO DECOMMISSION THE EXISTING SEPTIC SYSTEM IN ACCORDANCE WITH 310CMR 15.354.



LOCAL UPGRADE REQUESTS PER 310CMR SECTION 15.405:

- A REDUCTION OF THE SEPARATION OF THE PROPOSED LEACH FIELD FROM THE HIGH GROUNDWATER TABLE FROM 4' TO 3' PER (1)(h).
- ALLOW THE SUBSTITUTION OF A SIEVE ANALYSIS IN LIEU OF A PERCOLATION TEST DUE TO SITE CONDITIONS AT TIME OF TESTING PER (1)(i).

LEGEND



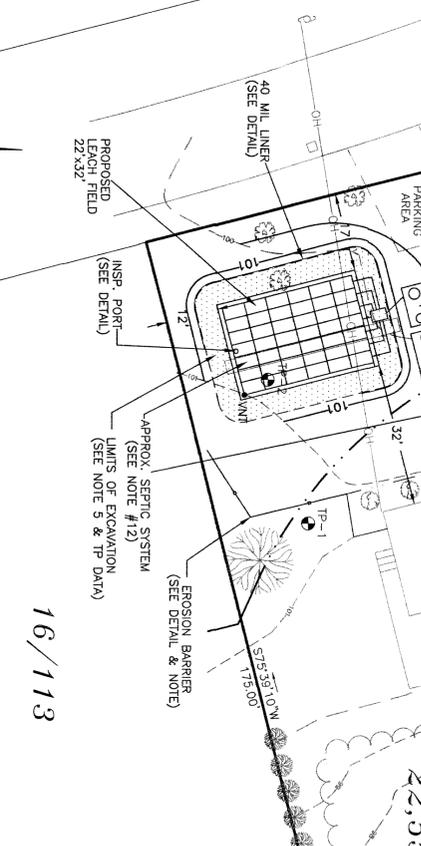
DESIGN CAPACITY REQUIRED
 3 BEDROOMS* AT 110 GAL./DAY/BDRM. = **330**
 *SEE DEFINITION OF BEDROOM PER 310CMR 15.002

SEPTIC TANK VOLUME
 330 GALS X 200% = **660** GALS. DESIGN CAPACITY
 MINIMUM OF 1500 GALLON TANK REQUIRED

SYSTEM CAPACITY PROVIDED
 ADS ARC CAPACITY = 480 S.F./L.F.
 CAPACITY REQUIRED = 330 GPD / 0.33GPD/SF = **1000** S.F.
 1000 S.F. / 4.80 S.F./L.F. = **209** L.F.
 209 L.F. / 7 ROWS = **30** = 7 ROWS OF (6) 5' CHAMBERS + (2) 2' ENDCAPS/ROW
 PROPOSED LEACH FIELD = 13'0\"/>

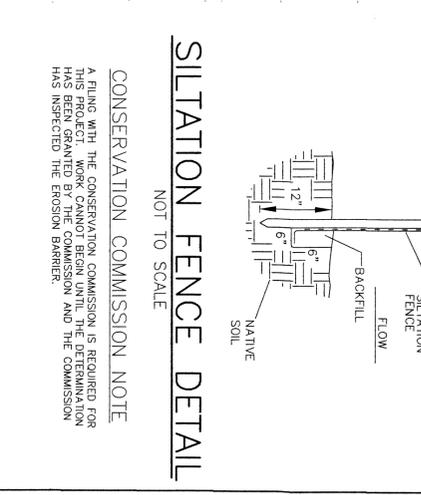
PROPERTY INFORMATION
 DEED BOOK/PAGE: 7316 / 127
 PLAN TITLE: PLAN OF SUBDIVISION - KERR
 ASSESSORS MAP/LOT: 16 / 112
 PLAN DATE: JANUARY, 1976

SEWAGE DISPOSAL SYSTEM UPGRADE DESIGN
 ADS ARC36 CHAMBERS GENERAL USE APPROVAL
 RESERVED FOR BOARD OF HEALTH USE



LOT AREA
 22,555 SF ±

GRAPHIC SCALE
 1 inch = 20 ft



CONSERVATION COMMISSION NOTE
 A RATING WITH THE CONSERVATION COMMISSION IS REQUIRED FOR ANY EROSION CONTROL MEASURES THAT HAVE BEEN GRANTED BY THE COMMISSION AND THE COMMISSION HAS INSPECTED THE EROSION BARRIER.

PREPARED FOR: **ROBERTS ASSOCIATES**
 295 CHERRY STREET
 FALL RIVER, MA 02720

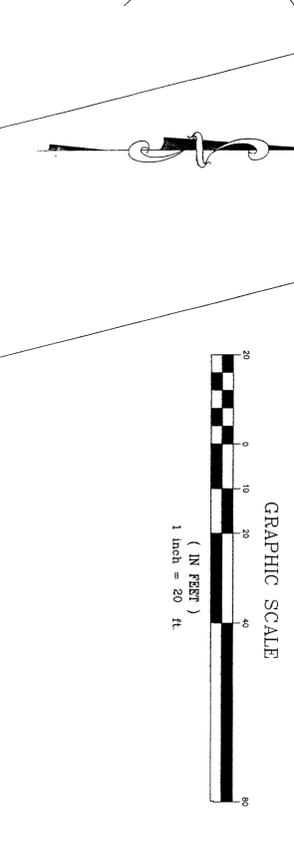
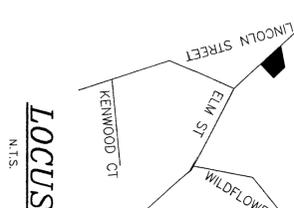
LOCATED AT: **463 LINCOLN STREET**
 SEEKONK, MASSACHUSETTS

DATE: 10/28/13
 SCALE: 1" = 20'
 DESIGN ENG: DJM
 FIELD REVIEW: JB
 PERMITS: PS13-105
 DWG. NO.: PS13-105SDS

REGISTERED PROFESSIONAL ENGINEER
 COMMONWEALTH OF MASSACHUSETTS
 RICHARD R. HEDRICK
 No. 10272
 EXPIRES 12/31/15

FORESIGHT ENGINEERING INC.
 100 WASHINGTON STREET
 WEST BURLINGTON, MA 02726
 TEL: (508) 265-2148

NO.	DATE	DESCRIPTION	BY



BUDYANCY CALCULATIONS: 1,000 GALLON SEPTIC H-20
 DOWNWARD FORCE:
 TANK BY SHEA CONCRETE MODEL TK-1500C
 WEIGHT OF EMPTY 1,000 GAL. 1 COMPARTMENT
 TANK=14,166 LBS. (WITHOUT CONCRETE COVERS)
 SOIL WEIGHT ABOVE TANK:
 VOLUME OVER TANK=44 CF (44 CF X 110 LB/CF=4,840 LBS)
 DOWNWARD FORCE=14,166+4,840=19,006 LBS.
 BUOYANT FORCE: (ASSUMES TANK FULLY SUBMERGED IN WATER)
 VOLUME OF DISPLACED WATER = 286 CF
 BUOYANT FORCE=286 CF X 62.4 LB/CF=17,847 LB
 19,006 LB > 17,847 LB
 (DOWNWARD FORCE > BUOYANT FORCE)

BUDYANCY CALCULATIONS: 1,500 GALLON SEPTIC H-20
 DOWNWARD FORCE:
 TANK BY SHEA CONCRETE MODEL TK-1500C
 WEIGHT OF EMPTY 1,500 GAL.
 TANK=22,661 LBS. (WITHOUT CONCRETE COVERS)
 SOIL WEIGHT ABOVE TANK:
 VOLUME OVER TANK=61 CF (61 CF X 110 LB/CF=6,710 LBS)
 DOWNWARD FORCE=22,661+6,710=29,371 LBS.
 BUOYANT FORCE: (ASSUMES TANK FULLY SUBMERGED IN WATER)
 VOLUME OF DISPLACED WATER = 413 CF
 BUOYANT FORCE=413 CF X 62.4 LB/CF=25,771 LB
 29,371 LB > 25,771 LB
 (DOWNWARD FORCE > BUOYANT FORCE)

SOIL DATA
 INSPECTOR: BETH HALLAL
 DATE: 9/30/13
 PERFORMED BY: DARREN MICHAELS

TEST PIT # 1
 EL. TOP = 100.9
 EL. WATER = 95.9 MOTTLES
 PERC RATE = SIEVE SAMPLE
 DEPTH OF SAMPLE = 72"

TEST PIT # 2
 EL. TOP = 100.9
 EL. WATER = 95.9 MOTTLES
 PERC RATE = NO TEST

