

PROFILE OF LEACHING FIELD SEWAGE DISPOSAL SYSTEM

TYPE OF BUILDING EXIST 3 BDRM HOUSE
DESIGN FLOW 3 x 110 GPD/BDRM = 330 GPD

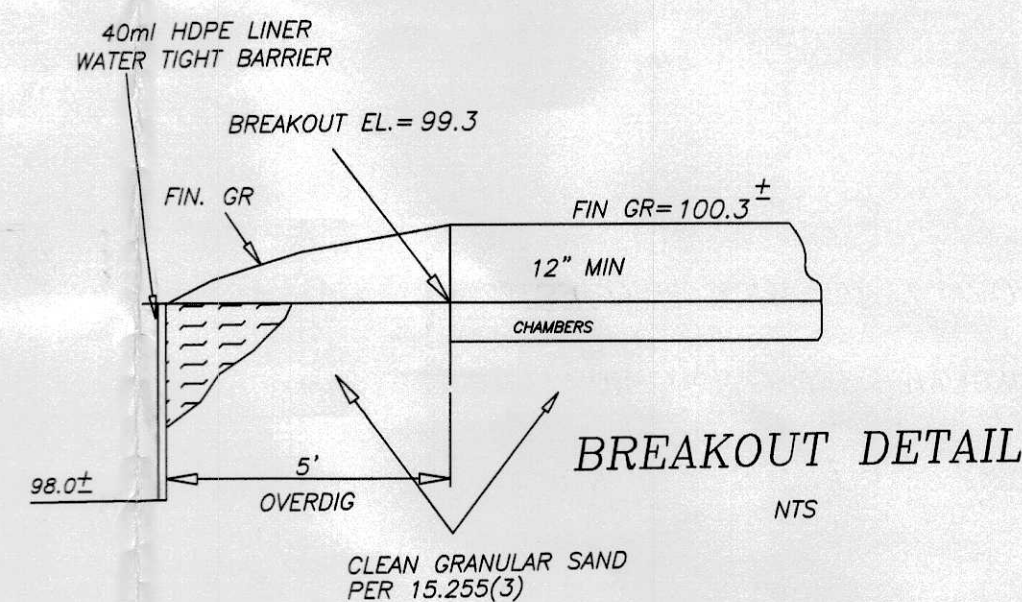
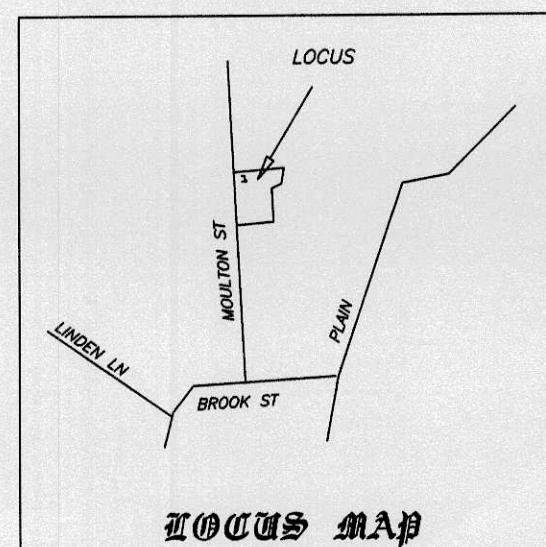
SEPTIC TANK
200% OF DESIGN FLOW = $330 \times 2.0 = 660$ GALLONS
USE 1500 GALLON SEPTIC TANK

GARBAGE GRINDERS
NOT ALLOWED!

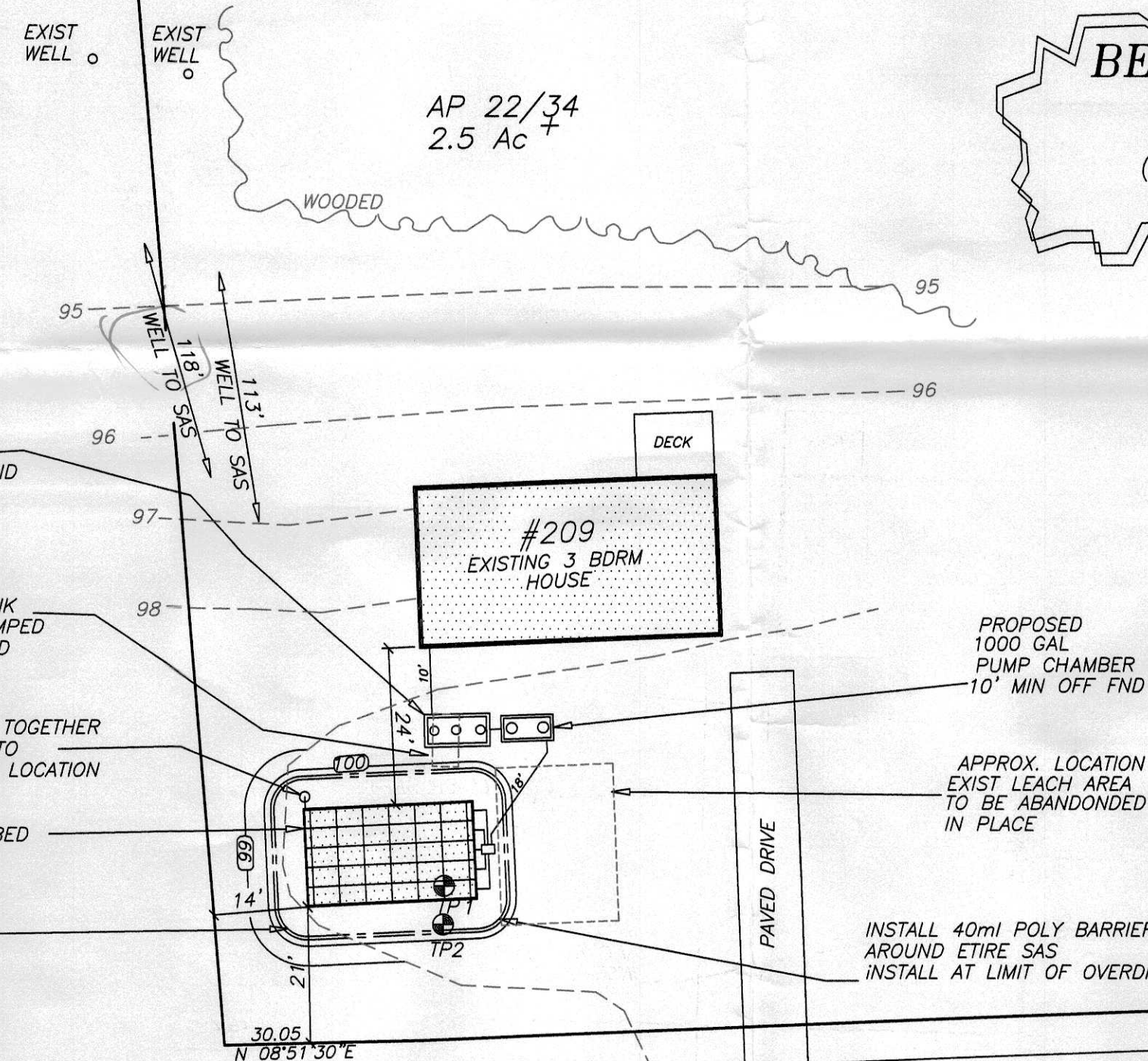
LEACHING FIELD
DESIGN PERC RATE = < 5 MIN/IN
SOIL CLASS I
EFFLUENT LOADING RATE = 0.74 GPD/SF
 $330 \text{ GPD} \div 0.74 \text{ GPD/SF} = 446$ SF OF LEACHING AREA

PER REHOBOTH BOH REGS INCREASE BY 25%
 $446 \times 1.25 = 558$ SF
PER INFILTRATOR DESIGN GUIDELINES
EFFECTIVE LEACHING AREA = $4.72 \text{ SF/LF OR } 18.88 \text{ SF/CHAMBER}$
 $558/18.88 = 29.5$ CHAMBERS
USE 5 ROWS OF 6 CHAMBERS
30 TOTAL

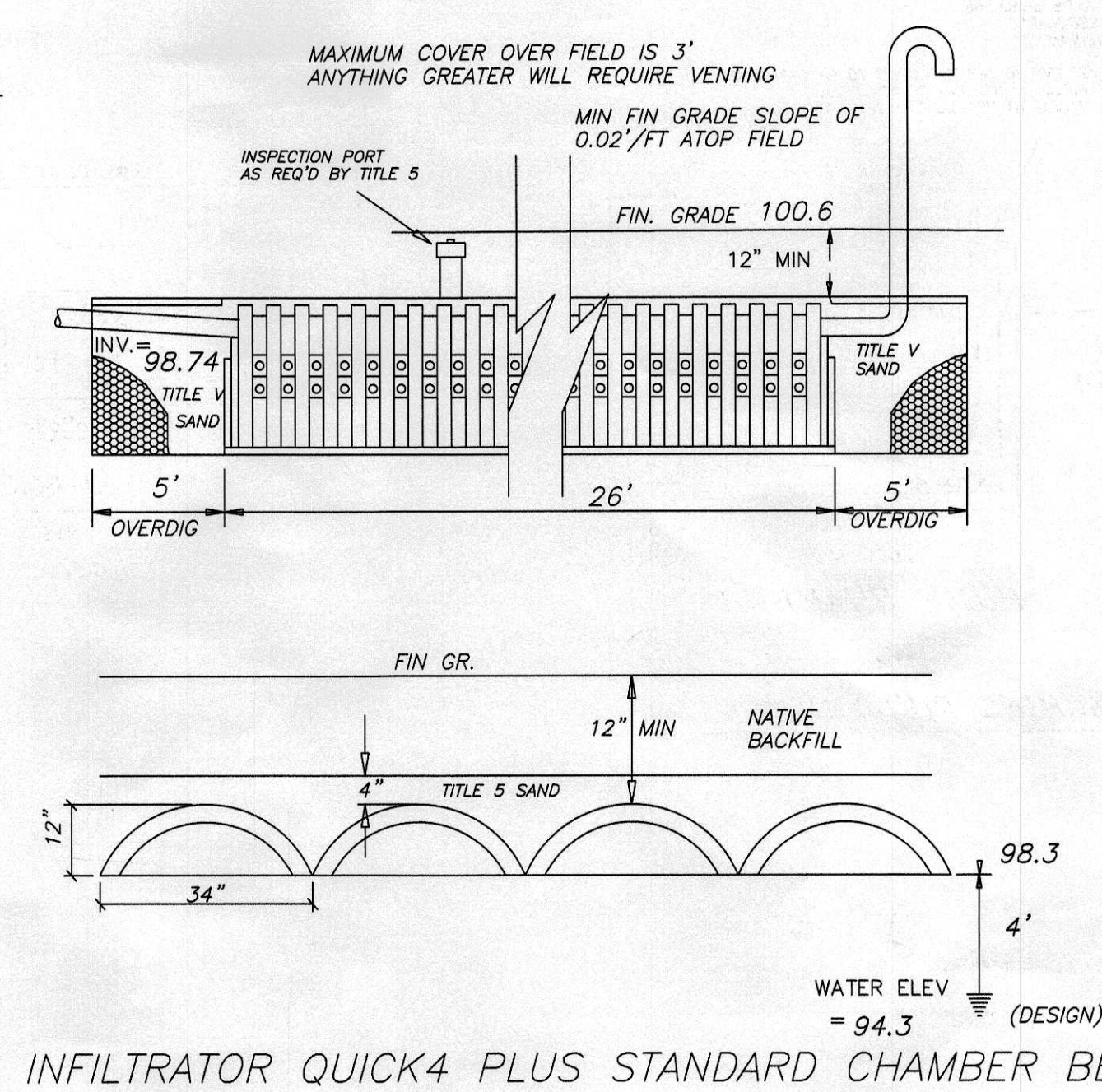
ELEVATION SCHEDULE	DESIGN ELEVATION
TOP OF FOUNDATION	100.0
SEWER INVERT AT FOUNDATION	98.8
SEWER INVERT INTO SEPTIC TANK	96.75
SEWER INVERT OUT OF SEPTIC TANK	96.50
SEWER INVERT INTO PUMP CHAMBER	96.4
SEWER INVERT INTO DIST. BOX	99.1
SEWER INVERT OUT OF DIST. BOX	98.93
SEWER INVERT INTO CHAMBERS	98.74
BOTTOM OF CHAMBER	94.3
ELEVATION OF GROUND WATER TABLE	94.3



INSTALL 1 INSPECTION PORT, CONSISTING OF A PERFORATED 4" PIPE PLACED VERTICALLY DOWN INTO THE SAND TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE INFILTRATORS. THE PIPE SHALL BE CAPPED W/ A SCREW TYPE CAP & ACCESSIBLE TO WITHIN 3" OF FINISH GRADE. MARK W/ MAGNETIC TAPE.



MOULTON STREET



BENCHMARK:
TOP OF FND
EL. = 100.0
(ASSUMED)

INSTALL 40ml POLY BARRIER AROUND ENTIRE SAS. INSTALL AT LIMIT OF OVERDIG.

LOCAL UPGRADE APPROVAL/ VARIANCE REQUESTS:
1. REDUCE REQUIRED GROUNDWATER SEPARATION FROM 5' TO 4' AS PER 310CMR 15.405 1h
2. ALLOW REDUCTION OF TOWN OF REHOBOTH REQUIRED 150' SETBACK DISTANCE FROM A WELL TO 100' AS PER TITLE 5 REQUIREMENT.

OBSERVATION TEST PITS 98.8

TP 1 ELEV= 98.8	TP 2 ELEV= 98.9
44" FILL	4" SL
96" MED SAND	12" LS
C 25Y5/3	A 10YR2/1
	B 10YR5/4
	C 25Y5/3
	PERC @ 18"
	2 MIN/IN
	WATER EL=
	RUST @ 54"
	STANDING @ 71"
	RUST @ 54"

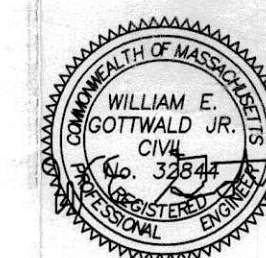
SOIL TEST PITS AND PERC. TEST PERFORMED BY:

BILL GOTTFELD DATE 2/11/20

WITNESSED BY: KARL DROWN

GENERAL NOTES:

- THE SEPTIC TANK SHALL BE 1500 GALLONS MINIMUM, UNLESS OTHERWISE SPECIFIED ON THIS DESIGN PLAN, AND FITTED WITH SCHEDULE 40 PVC TEES OF PROPER LENGTH. SEPTIC TANK CONSTRUCTION SHALL CONFORM TO 310 CMR 15.226. THE SEPTIC TANK OUTLET COVER SHALL BE BUILT UP TO WITHIN 6" OF THE FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
- SEPTIC TANK AND DISTRIBUTION BOX SHALL BE PLACED ON A 6" MINIMUM COMPACTED GRAVEL BASE.
- ALL JOINTS MUST BE WATERTIGHT, SEALED WITH SUITABLE CEMENT FOR THAT SPECIFIC COMPONENT.
- SOIL PREPARATION FOR THE LEACHING AREA SHALL CONFORM TO 310CMR 15.246 & 15.247.
- ANY EXCAVATION OF UNSUITABLE MATERIAL DESIGNATED ON THE PLAN SHALL CONFORM TO CONSTRUCTION IN FILL REQUIREMENTS AS OUTLINED IN 310CMR 15.255 (1-6).
- FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. AGGREGATE SPECIFICATIONS SHALL CONFORM TO 310 CMR 15.247. 24 HOUR NOTICE REQUIRED FOR INSTRUCTIONS. ANY ALTERATIONS MUST BE REPORTED TO THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- NO HEAVY EQUIPMENT SHALL BE RUN OVER THE COMPONENTS OR LEACHING BED DURING CONSTRUCTION.
- DEEP TEST HOLE INFORMATION INDICATES SOIL CONDITION, PERCOLATION RATE AND WATER TABLE ELEVATION AT THE TIME AND LOCATION OF ACTUAL TESTING ONLY. IF UNSUITABLE MATERIAL OR A HIGHER GROUNDWATER ELEVATION IS ENCOUNTERED, THE BOARD OF HEALTH AND DESIGN ENGINEER SHALL BE NOTIFIED.
- AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED TO HELP PREVENT EROSION. THE AREA OVER THE SYSTEM SHALL BE GRADED TO A MINIMUM OF 2% SLOPE, TO PROVIDE POSITIVE SURFACE DRAINAGE.
- NO STRUCTURE MAY BE CONSTRUCTED OVER THE RESERVE AREA.
- THE SYSTEM SHALL BE VENTED IF THE TRENCH LENGTH EXCEEDS 50' OR IF IT IS COVERED BY IMPERVIOUS SURFACE. ALL PUMPED SYSTEMS ARE TO BE VENTED.
- IF ANY COMPONENTS OF THE PROPOSED SYSTEM ARE SPECIFIED AS HEAVY DUTY, THOSE COMPONENTS SHALL CONFORM TO ALL STATE AND LOCAL REQUIREMENTS FOR MASHTO H-20 LOADING.
- THE SYSTEM MUST BE INSPECTED BY THE BOARD OF HEALTH AND THE DESIGN ENGINEER, PRIOR TO BACKFILLING.
- UNLESS SPECIFIED IN THE BASIS OF SANITARY DESIGN, THIS SYSTEM IS NOT DESIGNED FOR THE USE OF A GARBAGE GRINDER OR OTHER HIGH WATER USAGE DEVICE.
- IF THE D-BOX IS DOSED OR THE INLET SLOPE EXCEEDS 8%, AN INLET TEE OR BAFTEL IS REQUIRED.
- ALL CONSTRUCTION SHALL CONFORM TO 310 CMR 15.00, TITLE V AND THE REGULATIONS OF THE LOCAL BOARD OF HEALTH.
- IT IS THE CONTRACTORS RESPONSIBILITY TO SECURE ALL NECESSARY PERMITS PRIOR TO ANY SITE ACTIVITY. A STAMPED COPY OF THE APPROVED PLAN SHALL BE KEPT ON-SITE.
- ANY EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR TO VERIFY PRIOR TO EXCAVATION.
- ALL KNOWN PUBLIC AND PRIVATE WELLS PER 310 CMR 15.220(k) ARE SHOWN.
- FOR OPTIMUM PERFORMANCE, THE SEPTIC TANK SHOULD BE INSPECTED ANNUALLY AND WHEN THE SOLIDS AND SCUM DEPTH EXCEEDS 1/3 OF THE LIQUID DEPTH, THE TANK SHOULD BE PUMPED.



REPAIR

ON-SITE SEWAGE DISPOSAL SYSTEM

209 MOULTON STREET
REHOBOTH, MASSACHUSETTS

PREPARED FOR: DOWN TO EARTH CONSTRUCTION

SCALE: 1"=20' DATE: 2/16/20

DMG

DMG ASSOCIATES
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