

### GENERAL NOTES

- SWALE AND/OR GRADE SURFACE WATER AND PIPE ROOF AND FOOTING DRAINS AWAY FROM THE SEPTIC SYSTEM AREA DOUBLE PIPE CURTAIN DRAIN IF ROOF OR FOOTING DRAINS ARE IN THE SAME TRENCH.
- THE SEPTIC TANK AND LEACHING SYSTEM MAY BE RELOCATED IN THE FIELD TO ADJUST TO SITE CONDITIONS WITH THE APPROVAL OF THE ENGINEER AND THE HEALTH DEPARTMENT.
- PRIOR TO THE START OF CONSTRUCTION OF THE DWELLING OR INSTALLATION OF THE SEPTIC SYSTEM, THE PROPERTY LINES SHALL BE CLEARLY LOCATED AND STAKED BY A SURVEYOR.
- THE ENGINEER IS TO BE NOTIFIED 24 HOURS IN ADVANCE PRIOR TO THE START AND COMPLETION OF THE CONSTRUCTION OF THE SEPTIC SYSTEM. THE SYSTEM SHALL BE BACKFILLED WITH (2) HOURS DAILY FOLLOWING APPROVAL.
- THE SEPTIC SYSTEM INSTALLER SHALL NOTIFY THE ENGINEER PRIOR TO INSTALLING THE SYSTEM TO DISCUSS THE INTENT OF THE PLAN AND ANY SPECIAL REQUIREMENTS OF THE DESIGN AND TO SCHEDULE A SCOURING INSPECTION.
- THE HEALTH CODE OF THE STATE OF CONNECTICUT IS A PART OF THIS DESIGN. NOTHING HEREON SHALL BE INTERPRETED AS INTENDING TO REDUCE THE HEALTH REQUIREMENTS OR DELETING ANY PART OF SAID CODE.
- PRIOR TO EXCAVATION FOR ANY REASON, CALL BEFORE YOU DIG SHALL BE NOTIFIED. (IF ANY UTILITY INTERFERENCE IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED.)
- THERE IS NO OBVIOUS INTERFERENCE REGARDING SEPARATION DISTANCES BETWEEN EXISTING AND PROPOSED SEPTIC SYSTEMS AND/OR WELLS TO THE BEST OF OUR KNOWLEDGE.
- AS-BUILT PLANS ARE TO BE SUBMITTED BY THE ENGINEER TO THE HEALTH DEPARTMENT PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR CERTIFICATE TO DISCHARGE.
- THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM DESIGN CONFORMS WITH ACCEPTED ENGINEERING DESIGN PRINCIPLES. IT SHOULD NOT BE INTERPRETED AS A GUARANTEE AGAINST FAILURE DUE TO UNFORESEEN FUTURE CIRCUMSTANCES SUCH AS: IMPROPER INSTALLATION OF THE SYSTEM, IMPROPER SITE GRADING, EXCESSIVE WATER USAGE, LACK OF MAINTENANCE OR CHANGES IN SOIL OR GROUND WATER CHARACTERISTICS BEYOND THE SCOPE OF NORMAL SITE INSPECTIONS OR SOIL TESTS.
- ALL TOWN OF NEW FAIRFIELD REQUIREMENTS SHALL BE FOLLOWED AND ARE A PART OF THESE PLANS AND SPECS.
- THE SEPTIC TANK SHALL BE INSPECTED AT INTERVALS OF NO MORE THAN EVERY 180 DAYS TO DETERMINE A MAINTENANCE SCHEDULE.
- THE DEPTH OF FILL SHOWN ON THE PROFILE AND IN THE DESIGN CRITERIA IS BASED UPON THE PROFILE SECTION LINE ONLY. MORE OR LESS FILL MAY BE REQUIRED IN OTHER AREAS OF THE SEPTIC SYSTEM.
- REFER TO PROFILE FOR FINISHED GRADE REQUIREMENTS.
- THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL PREPARED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION DATED JANUARY 1985, REVISED SEPTEMBER 1988, SHALL BE FOLLOWED. MAY BARRIERS AND/OR SILT FENCE SHALL BE INSTALLED PRIOR TO FILLING OR CONSTRUCTION OF THE DWELLING, DRIVEWAY, WELL OR SEPTIC SYSTEM AS REQUIRED.
- THE NEED TO INSTALL A CURTAIN DRAIN SHALL BE FIELD DETERMINED PRIOR TO THE INSTALLATION OF THE SEPTIC SYSTEM (REFER TO NOTE #5).
- FUEL OIL TANKS MUST BE INSTALLED IN DWELLING BASEMENT.

- ALL SELECT FILL MUST BE PLACED ON THE PERIPHERY OF THE SEPTIC SYSTEM AREA AND FINED TOWARDS THE MIDDLE TO PREVENT DRAINING/COMPACTING OF THE ORIGINAL SOIL. ALL FILL SHALL BE PERCOLATION TESTED BY THE ENGINEER PRIOR TO INSTALLATION OF THE SEPTIC SYSTEM. FILL PERCOLATION RATE MUST BE FASTER THAN ORIGINAL SOIL.
- CAREFULLY REMOVE THE ORGANIC (TOPSOIL) FROM THE SEPTIC SYSTEM PRIMARY AREA WITH AN EXCAVATOR. DO NOT DISBURD OR COMPACT THE SEPTIC SYSTEM AREA IN ANY MANNER OR THIS PLAN SHALL BE DEEMED VOID. THE SEPTIC SYSTEM AREA SHALL BE STAKED PRIOR TO FILLING.
- PROPERTY LINES BEARINGS AND DISTANCES TAKEN FROM A-C SURVEY PREPARED BY PAUL A. HIRD P.C. DATED 1/27/06
- EXISTING GRADE CONTOURS TAKEN FROM A-C SURVEY PREPARED BY PAUL A. HIRD P.C. DATED 1/27/06
- A SEWAGE PUMPING STATION WILL BE REQUIRED IF THE BUILDING FIRST FLOOR CANNOT BE CONSTRUCTED HIGHER THAN THE LEACHING AREA.
- THE LEACHING SYSTEM AREA MUST BE FILLED WITH SELECT COARSE SAND SEPTIC FILL AND RETESTED PRIOR TO THE INSTALLATION OF THE SEPTIC SYSTEM.
- A BENCH MARK IS TO BE SET BY THE PROJECT SURVEYOR PRIOR TO THE START OF CONSTRUCTION.
- THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING "SELECT MATERIAL" IS THAT OF THE LICENSED INSTALLER. TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVER COMPACTION AND SATURATION (ONCE EXPOSED).

### SPECIFICATIONS

- THE SEPTIC TANK SHALL BE 2000 GALLON PRECAST CONCRETE TYPE 51-2000-2 AS MANUFACTURED BY EASTERN PRECAST CO. INC. OR APPROVED EQUAL. TANK SHALL BE REINFORCED FOR H-20 WHEEL LOADING IF LOCATED UNDER TRAFFIC AREAS. TANK SHALL HAVE PRECAST 2'-0" DIA. Baffle.
- DISTRIBUTION PIPE SHALL BE 4" DIA. PVC ASTH D2224 OR 4" DIA. PVC SDR-35 SOLID WALL THICK JOINT PIPE OR APPROVED EQUAL.
- PIPE FROM DWELLING SHALL BE 4" ASTH D1785 PVC SCHEDULE 40, 1/2" WALL, C-100 PVC HW FIBER GLASS BASKETS OR APPROVED EQUAL. SURFACE CLEANING OR HANDLES SHALL BE PROVIDED FOR EACH 20' OF LENGTH. PIPE SLOPE SHALL BE 1/4" PER FOOT MIN.
- SELECT SEPTIC FILL SHALL CONFORM TO CONNECTICUT D.O.T. SPECIFICATIONS M22.06-13 AND BE PLACED IN 6" TO 12" LIFTS WITH COMPACTION EQUAL TO PROCTOR DENSITY OF 10% TO 15% FILL SHALL PERC AT A RATE EQUAL TO OR FASTER THAN THE ORIGINAL SOIL.
- DISTRIBUTION BOXES SHALL BE DB-4 FOR STD-6 HW Baffle FOR PUMPED SYSTEMS. PRECAST CONCRETE AS MANUFACTURED BY EASTERN PRECAST CO. INC. OR APPROVED EQUAL. PLASTIC DISTRIBUTION BOXES ARE AN ACCEPTABLE ALTERNATIVE.
- FORCE MAIN SHALL BE 2" DIA. PVC THICK JOINT PIPE C-100, ASTH 1785, ASTH D2224 OR APPROVED EQUAL. REQUIRED FOR PUMPING STATION DESIGN ONLY.
- FILTER FABRIC SHALL BE NON-WOVEN FABRIC MEETING A MINIMUM AVERAGE ROLL VALUE OF 180Z/FT<sup>2</sup> AND PERMITTIVITY OF 1.0 SEC AND A TENSILE/TEAR OF 9 LBS.
- SELECT FILL MATERIAL AND "SELECT BACKFILL MATERIAL" PLACED WITHIN AND ADJACENT TO PROPOSED LEACHING AREAS SHALL BE COMPRISED OF CLEAN SAND AND GRAVEL. FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE FILL MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY A PROFESSIONAL ENGINEER FOR USE WITHIN THE LEACHING AREA.

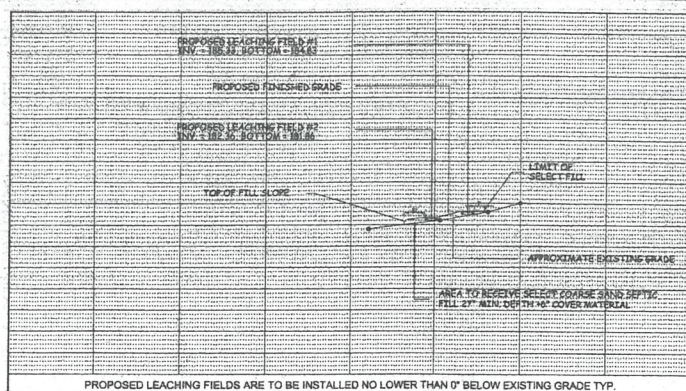
STEVE NO.	WET SIEVE	PERCENT PASSING	DRY SIEVE
#4	100%	100%	100%
#10	70%-100%	70%-100%	70%-100%
#40	10%-50% (SEE NOTE BELOW)	10%-50%	10%-75%
#100	0%-20%	0%-20%	0%-5%
#200	0%-5%	0%-5%	0%-2.5%

### DEEP TEST DATA

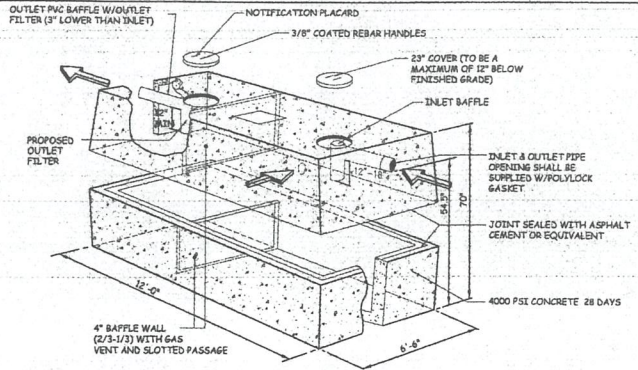
- NOTE: PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.
- REFER TO SITE PLAN AND INVERT DATA TABLE FOR 2" HIGH OVERFLOW AND/OR EQUAL DISTRIBUTION REQUIREMENTS. REINFORCE FOR H-20 WHEEL LOADING IF LOCATED UNDER TRAFFIC AREAS.

### PERCOLATION TEST DATA

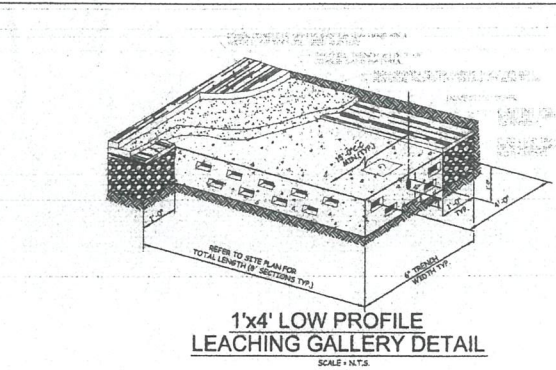
PERC #	276/2004
1	7.25
2	10.00
3	10.00
4	10.00
5	10.00
6	10.00
7	10.00
8	10.00
9	10.00
10	10.00



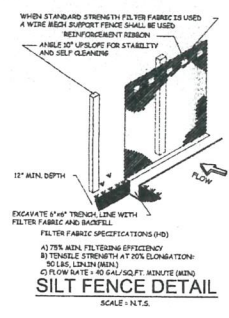
PROFILE SECTION A-A  
SCALE: 1"=20' HORIZONTAL AND VERTICAL



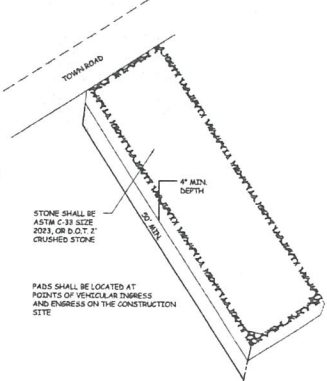
PROPOSED 2,000 GALLON SEPTIC TANK DETAIL  
SCALE: N.T.S. (H-20)



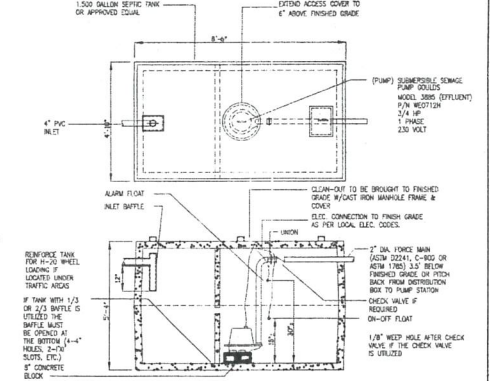
1'x4' LOW PROFILE LEACHING GALLERY DETAIL  
SCALE: N.T.S.



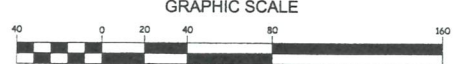
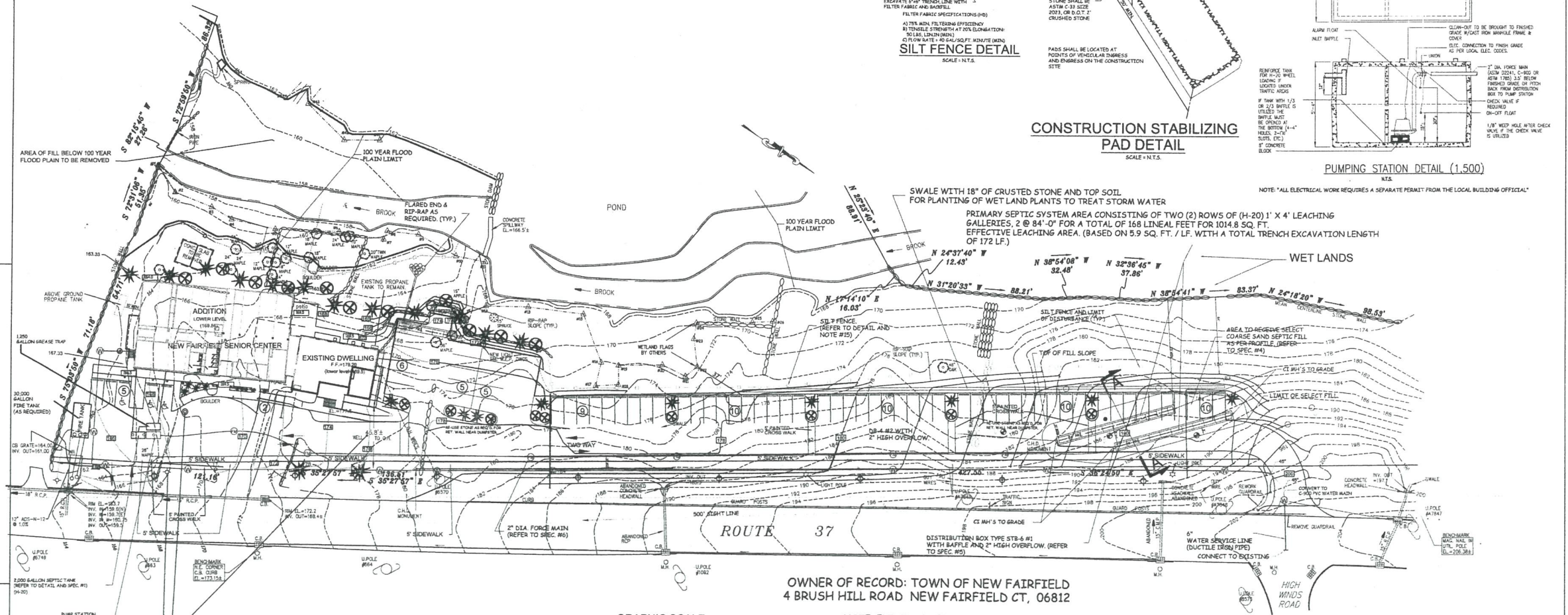
SILT FENCE DETAIL  
SCALE: N.T.S.



CONSTRUCTION STABILIZING PAD DETAIL  
SCALE: N.T.S.



PUMPING STATION DETAIL (1,500)  
SCALE: N.T.S.



### LEGEND

- APPROXIMATE DEEP TEST LOCATIONS
- APPROXIMATE PERCOLATION TEST LOCATION
- APPROXIMATE EXISTING GRADE CONTOURS
- PROPERTY LINES
- STONEWALLS
- PROPOSED FINISHED GRADE CONTOURS
- PROPOSED SILT FENCE
- APPROXIMATE EXISTING SPOT ELEVATIONS
- FLOOD LIGHTS PER ZONING REGS.

### DESIGN CRITERIA

- FIELD PERCOLATION RATE: PRIMARY = 1" IN 10 MIN.
- DESIGN PERCOLATION RATE: PRIMARY = 1" IN 10-15 MIN.
- PROPOSED SEPTIC TANK SIZE = 2000
- DESIGN FLOW = 25 EMPLOYEES @ 20 GPD = 500
- 275 SEATS (1 GPD) = 275
- APPLICATION RATE = 1.5 GPD / SQ. FT.
- TDS / 15 = 517 SQ. FT. E.L.A. REQUIRED
- MINIMUM LEACHING SYSTEM SPREAD (M.L.S.S.)
- DEPTH TO RESTRICTIVE LAYER = 28" HYDRAULIC GRADIENT = 0.02% SLOPE
- TOTAL LINEAL FEET OF THE PRIMARY LEACHING SYSTEM = 168
- TOTAL SQUARE FEET OF THE LEACHING SYSTEM = 2722 PROVIDED 321 REQUIRED
- SELECT COARSE SAND SEPTIC FILL 27" MINIMUM DEPTH 6" COVER MATERIAL OR APPROX. 300 CUBIC YARDS

**R.J. GALLAGHER JR. & ASSOCIATES** ENGINEERS  
39 MILL PLAIN ROAD, SUITE #2 DANBURY, CONNECTICUT (203) 798-9640

PROJECT: **33 ROUTE 37 NORTH NEW FAIRFIELD, CONNECTICUT**  
prepared for N.F. SENIOR CENTER

TITLE: **SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN**

DRAWN BY: T.K. SCALE: 1"=40' OR AS NOTED  
APPROVED BY: DATE: 1/11/06

D.T.G. TD 1/11/06

SP - 4