

**SOIL TEST DATA**

SOIL EVALUATOR: THOMAS ROUX  
APPROVING AUTHORITY: KARL DROWN  
DATE PERFORMED: NOVEMBER 16, 2020

DEPTH	SOIL HORIZON	SOIL TEXTURE	SOIL COLOR	SOIL MOTTLING	EL.
0" - 6"	FL				
6" - 12"	C	SANDY LOAM	5Y7/1		

ESTIMATED SEASONAL GROUND WATER ELEV. 109.9

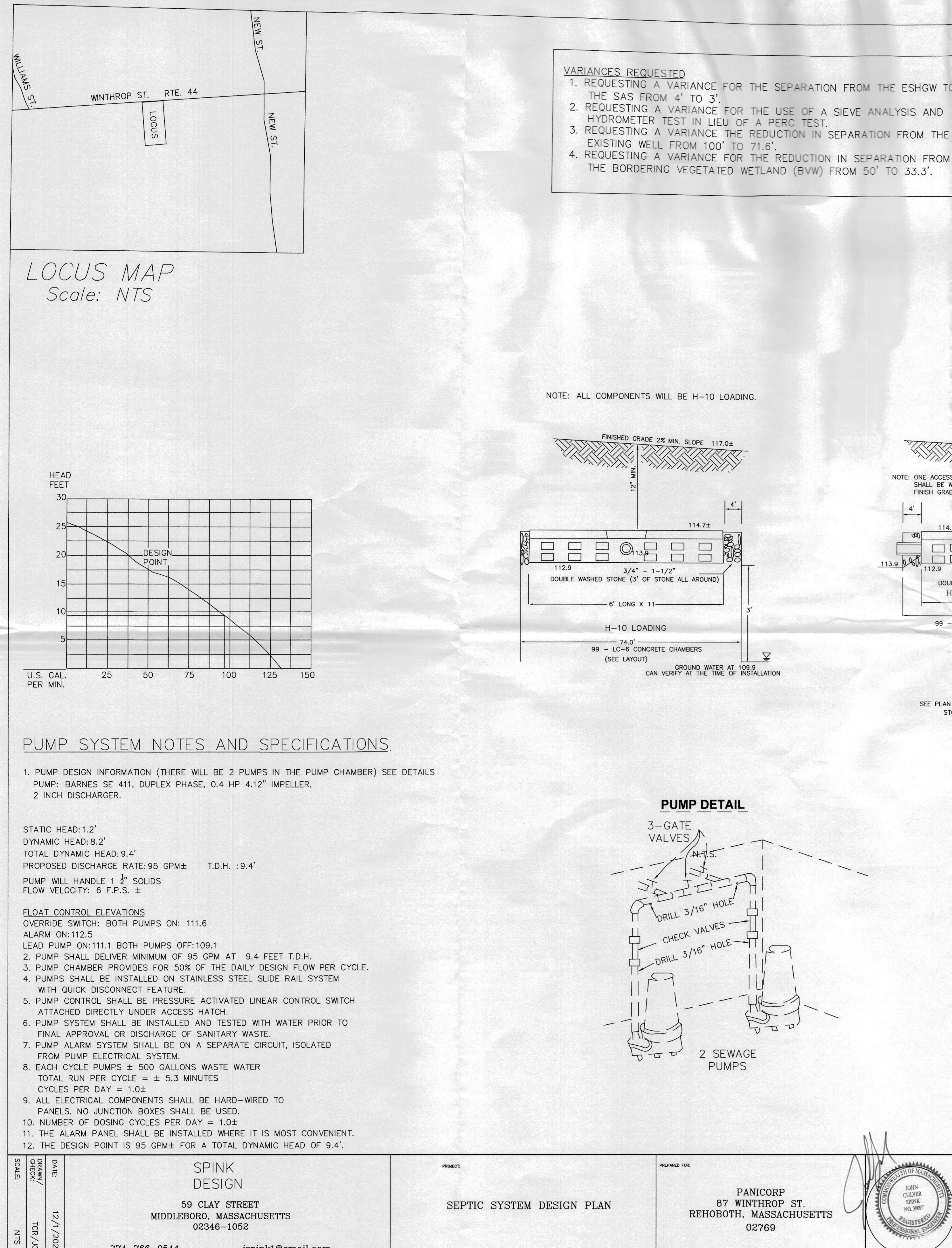
**DESIGN DATA**

TYPE OF BUILDING: SINGLE FAMILY DWELLING WITH OFFICE SPACE

TOTAL NUMBER OF EXISTING BEDROOMS: 4  
DESIGN FLOW: 110 GAL./BEDROOM/DAY. THE NEW SYSTEM WILL BE DESIGNED FOR 4 BEDROOMS.  
DESIGN FLOW: 4 BEDROOMS X 110 GAL./BEDROOM = 440 GAL./DAY  
2,740 S.F. OFFICE SPACE, 2,740 S.F./1,000 S.F. X 75 GPD PER 1,000 S.F. = 206 GPD  
SEPTIC TANK CAPACITY: (440 GPD + 206 GPD = 646 GPD X 1.25 = 807.5 GPD) REQUIRED  
REQUIRED: 807.5 GPD X 200% = 1615 GPD  
SEPTIC TANK PROVIDED = 2000 GAL. FIRST COMPARTMENT WITH 500 GAL. IN SECOND COMPARTMENT.  
2 COMPARTMENT TANK 2000 GAL. + 500 GAL. = 2,500 GAL. SEPTIC TANK (NEW SEPTIC TANK)  
SEPTIC TANK VOLUME: 2500 GAL.  
DESIGN FLOW RATE: 30 M.P.H. (FROM THE MASS. DEP REGS.)  
LTPAR = 33 gpd/ft

LEACHING CAPACITY PROVIDED:  
H-10 LC-6 PRECAST LEACHING CHAMBER  
99 PRECAST LC-6 PRECAST CHAMBERS REQUIRED  
99 UNITS AREA OF 74" X 35" = 2590 S.F. (WITH 4" OF STONE ALL AROUND)  
2590 SQ. FT. X 33 GPD/SQ. FT. = 854.7 GPD  
SINCE 854.7 GPD > 807.5 GPD O.K. (SIDEWALL AREA IS NOT USED)

- LEGEND**
- SW STONE WALL
  - TL TREE LINE
  - SMH SEWER MANHOLE
  - DMH DRAIN MANHOLE
  - W WELL
  - EC EROSION CONTROL
  - PROPOSED CONTOUR
  - EXISTING CONTOUR
  - CB CATCH BASIN
  - BM BENCHMARK
  - UP UTILITY POLE
  - HYD FIRE HYDRANT
  - PRC PERC TEST
  - DH DEEP HOLE
  - PROPOSED SPOT ELEV.
  - EXISTING SPOT ELEV.
- NOTES**
- ALL ELEVATIONS REFER TO THE BOTTOM STEP, SEE PLAN FOR BENCHMARK LOCATION
  - ALL CONSTRUCTION SHALL CONFORM TO 310 CMR 15.00, TITLE V AND THE REGULATION OF THE TOWN'S BOARD OF HEALTH.
  - THIS PLAN DOES NOT WARRANT OR IMPLY ANY SUBSURFACE SOIL CONDITIONS OTHER THAN THOSE OBSERVED AT THE IMMEDIATE TEST PIT LOCATIONS. IF UNSUITABLE MATERIAL IS ENCOUNTERED, ALL CONSTRUCTION SHALL CEASE AND THE DESIGN ENGINEER SHALL BE CONTACTED IMMEDIATELY.
  - ALL TANKS, D-BOXES, AND CHAMBERS SHALL BE SET LEVEL AND TRUE TO GRADE ON A MECHANICALLY COMPACTED STABLE BASE.
  - AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED TO MINIMIZE EROSION. THE AREA OVER THE SYSTEM SHALL BE GRADED TO A MINIMUM OF 2% SLOPE TO PROVIDE POSITIVE SURFACE DRAINAGE.
  - THE ORIGINAL TOPOGRAPHIC SURVEY AND PLAN WERE DONE BY BORDERLAND ENGINEERING.
  - THIS PLAN SHALL NOT BE USED FOR THE REPRODUCTION OF PROPERTY LINES, NOR SHALL IT BE USED AS A MORTGAGE PLOT PLAN OR TITLE SURVEY. CONFORMANCE TO LOCAL BYLAWS SHALL BE DETERMINED BY THE OWNER PRIOR TO CONSTRUCTION.
  - THE OWNER IS RESPONSIBLE FOR THE DETERMINATION OF THE LOCATIONS OF ALL BURIED UTILITIES.
  - FOR PROPER PERFORMANCE, THE SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND PUMPED WHEN THE TOTAL DEPTH OF SOLIDS EXCEEDS 1/4 THE LIQUID DEPTH OF THE TANK.
  - ANY ALTERATIONS MUST BE REPORTED TO THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
  - THE SYSTEM MUST BE INSPECTED DURING CONSTRUCTION BY THE BOARD OF HEALTH OR ITS AGENT AND THE DESIGN ENGINEER AND BE CERTIFIED BY THE DESIGN ENGINEER.
  - NO RESERVE AREA IS PROVIDED.
  - ALL STONE USED IS TO BE DOUBLE WASHED STONE.
  - SEE 310 CMR 15.255 FOR FILL SPECIFICATIONS. SEE 310 CMR 15.247 FOR AGGREGATE SPECIFICATION.
  - ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
  - THERE IS A WELL WITHIN 100' OF THE SYSTEM.
  - AN EFFLUENT FILTER IS TO BE USED AT THE OUTLET END OF THE TANK.
  - THE EXISTING SYSTEM WILL BE PUMPED DRY AND ABANDONED.
  - SLOPES MUST BE STABILIZED POST CONSTRUCTION.
  - EXISTING 4 BEDROOM HOUSE AND OFFICE SPACE DESIGN. SEE DESIGN CALCULATIONS ON THE PLAN.
  - REPLACE THE PIPE FROM THE HOUSE TO THE NEW SEPTIC TANK WITH NEW SCH-40 PVC PIPE.
  - ADD A PATIO BLOCK AT THE ENTRANCE OF EACH CHAMBER AS A SPLASH PAD.

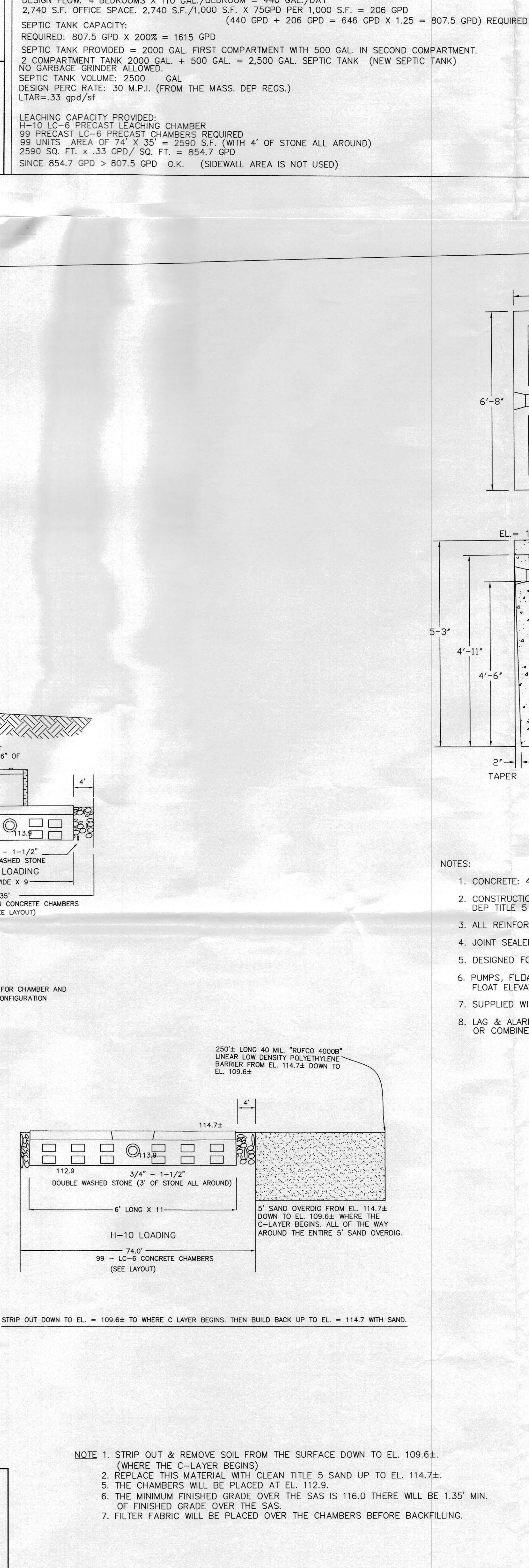


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**SEPTIC SYSTEM DESIGN PLAN**

CLIENT: PANICORP LOCATION: 87 WINTHROP ST. (RTE. 44) REHOBOTH, MA. 02769

DATE: DECEMBER 2, 2020 SCALE: 1" = 20' DESIGNED BY: TCR

DRAWING NO.: 1 OF 2 JOB NO: CHECKED BY: JCS

#	DATE	REVISION DESCRIPTION	TCR	JCS

**SEPTIC SYSTEM DESIGN PLAN**

CLIENT: PANICORP LOCATION: 87 WINTHROP ST. (RTE. 44) REHOBOTH, MA. 02769

DATE: DECEMBER 2, 2020 SCALE: NTS DESIGNED BY: TCR

DRAWING NO.: 2 OF 2 JOB NO: CHECKED BY: JCS

#	DATE	REVISION DESCRIPTION	TCR	JCS