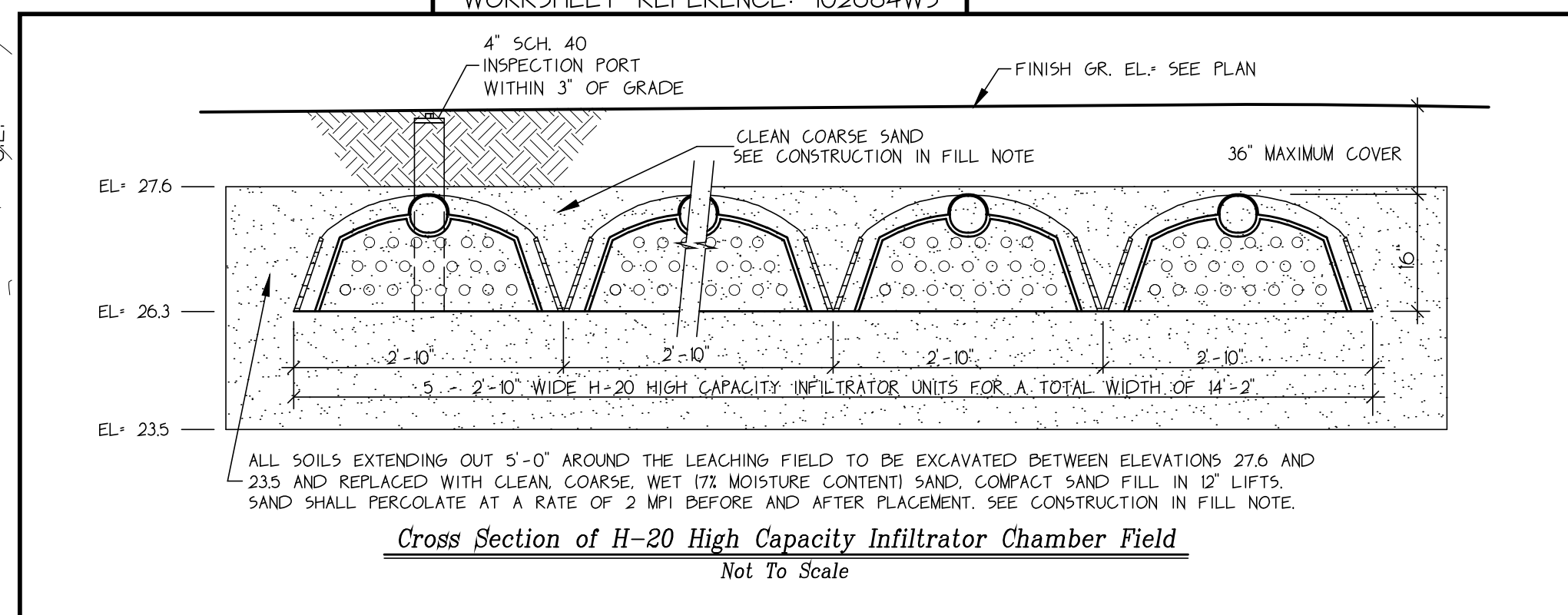
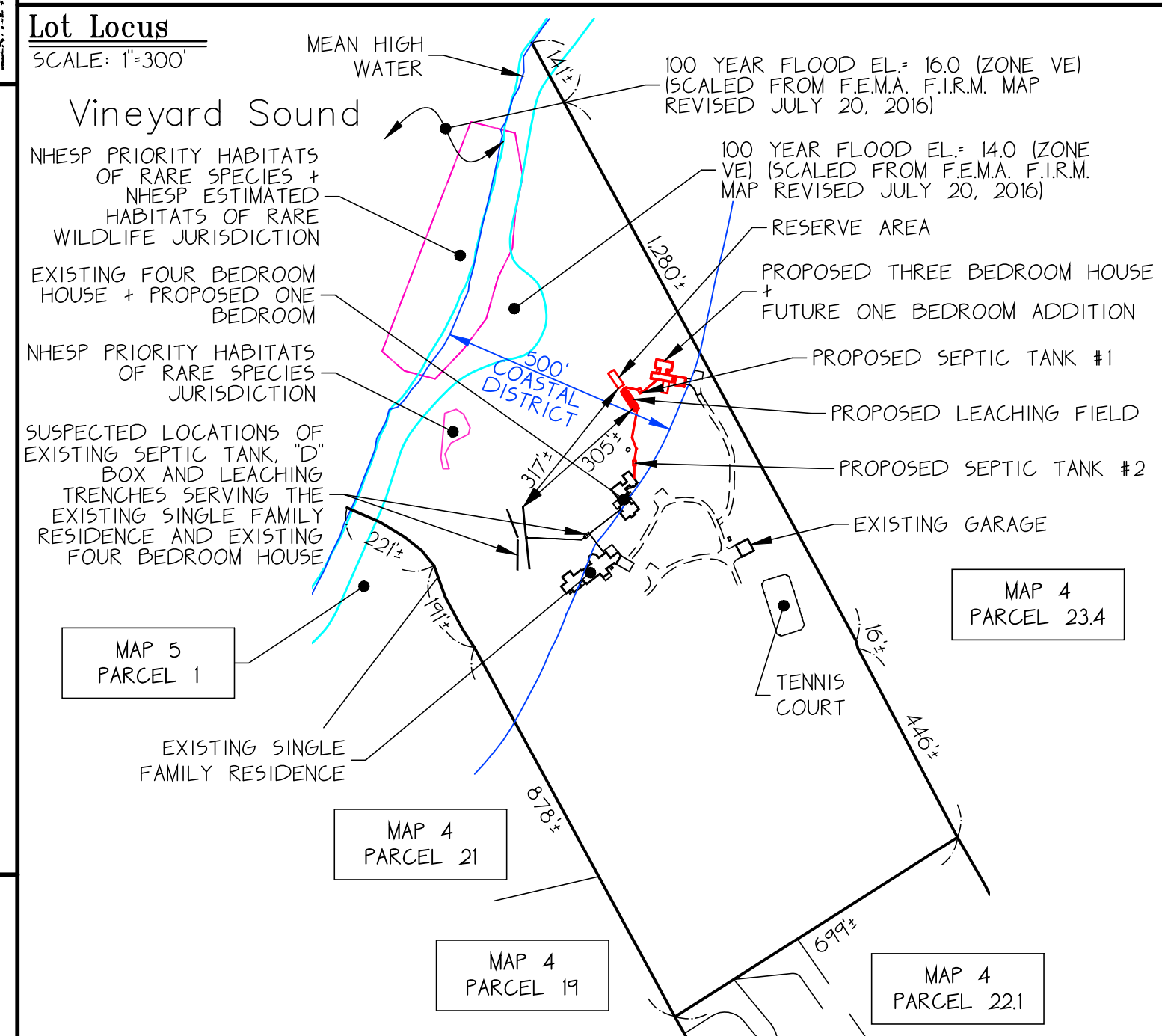


Notes
GENERAL NOTES:
 1. THIS PLAN IS TO BE USED ONLY FOR THE PERMITTING AND INSTALLATION OF A SEWAGE DISPOSAL SYSTEM. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.
 2. NO CHANGES TO THIS PLAN ARE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF SOURATI ENGINEERING GROUP, LLC.
 3. INSTALLATION SHALL BE IN STRICT CONFORMITY WITH TITLE 5 OF THE MASSACHUSETTS STATE SANITARY CODE AND THE RULES & REGULATIONS OF THE TOWN OF CHILMARK BOARD OF HEALTH.
 4. MACHINERY THAT MAY DISTURB PIPE ALIGNMENT IN THE DISPOSAL SYSTEM SHALL NOT BE USED ON THE DISPOSAL AREA.
 5. NO EXISTING WELLS WERE FOUND WITHIN 50' FROM THE PROPOSED SOIL ABSORPTION SYSTEM, OR WITHIN 50' FROM THE SEPTIC TANK.
 6. FINISHED SURFACE OF LEACHING AREA SHALL BE GRADED TO INSURE RUNOFF (2% MINIMUM SLOPE).
 7. THE SEPTIC TANK AND THE DISTRIBUTION BOX SHALL BE EITHER:
 A. WATER TIGHT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND WARRANTY, OR
 B. MADE WATER TIGHT BY THE MANUFACTURER, EQUIPMENT SUPPLIER OR INSTALLER, USING ASPHALT OR SYNTHETIC POLYMER SEALER SPECIFIED BY THE CONCRETE OR SYNTHETIC MATERIAL MANUFACTURER.
 8. SEPTIC TANKS AND DISTRIBUTION BOXES SHALL BE LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ONTO WHICH 6 INCHES OF CRUSHED STONE HAVE BEEN PLACED TO MINIMIZE UNEVEN SETTLING.
 9. ALL SYSTEM COMPONENTS SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS.
 10. ALL PIPING SHALL BE A MINIMUM OF SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
 11. DISTRIBUTION BOX OUTLET LINES SHALL BE LEVEL FOR A MINIMUM OF THE FIRST TWO FEET OF THEIR LENGTH.

CONSTRUCTION IN FILL:
 1. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL BE COMPOSED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES, MIXTURES AND LAYERS OF DIFFERENT TYPES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS USING A #4 SIEVE SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL UP TO 25% BY WEIGHT OF THE FILL. THE ANALYSIS MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSIS SHALL BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE. SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	EFFECTIVE PARTICLE SIZE	% THAT MUST PASS SIEVE
#4	4.75 MM	100 ±
#10	0.30 MM	10 ±
#100	0.15 MM	0 ±
#200	0.075 MM	0 ±

HIGH CAPACITY INFILTRATOR CHAMBER (SOIL ABSORPTION SYSTEM):
 1. THE INFILTRATORS SHALL BE INSTALLED IN STRICT CONFORMITY WITH THE MANUFACTURER SPECIFICATIONS.



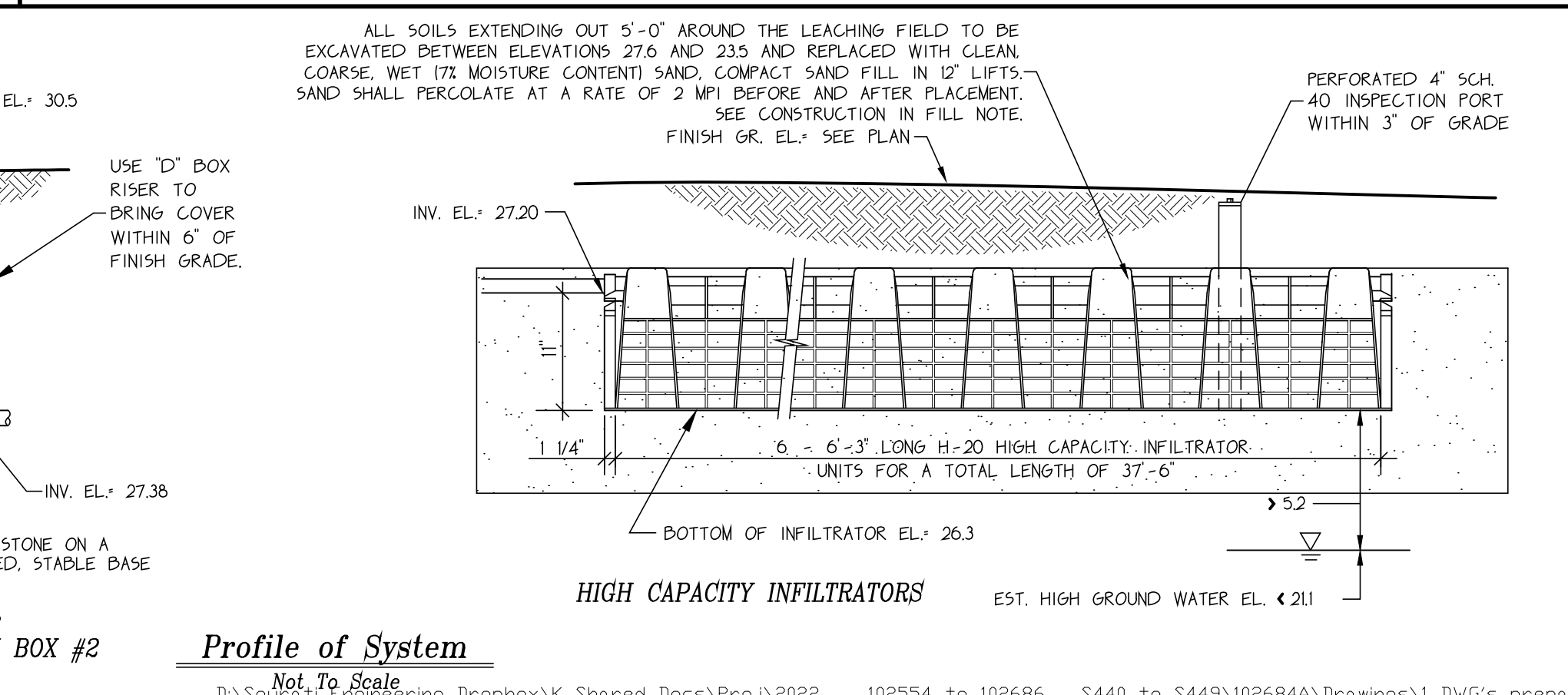
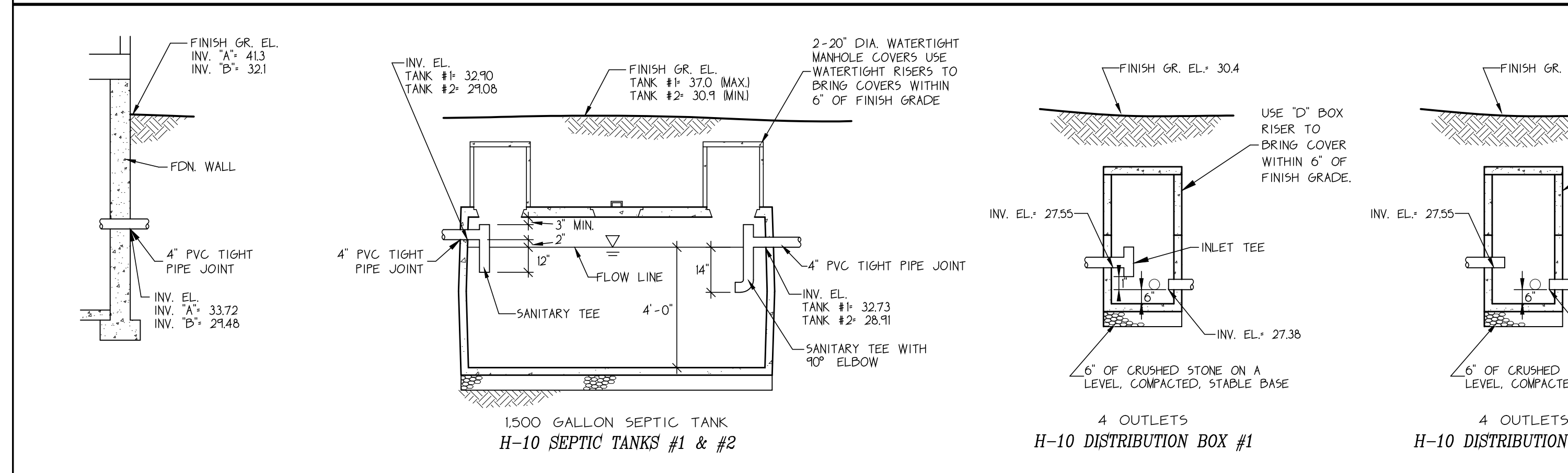
Design Computations:
HYDRAULIC LOADING
 3 + 1 + 1 + 5 BEDROOMS AT 110 GPD = 550 GPD
 A GARBAGE DISPOSAL IS NOT ALLOWED IN THIS DESIGN.

SEPTIC TANK #1 SIZE
 3 + 1 + 4 BEDROOMS AT 110 GPD = 440 GPD
 INCREASE FLOW TO 200% (TITLE VI) = 880 GALLONS USE 1500 GALLON SEPTIC TANK.

SEPTIC TANK #2 SIZE
 1 BEDROOM AT 110 GPD = 110 GPD
 INCREASE FLOW TO 200% (TITLE VI) = 220 GALLONS USE 1500 GALLON SEPTIC TANK.

LEACHING CAPACITY
 DESIGN PERCOLATION RATE IS 5 MIN/INCH EFFLUENT LOADING RATE 0.74 G/5F/D
 SOIL TYPE: CLASS I
 USE 1 LEACHING FIELD WITH 30 CHAMBERS.

TOTAL AREA OF FIELD = 30 CHAMBERS X 6.25 LF/CHAMBER X 4.72 5F/LF = 885 5F.
 TOTAL LEACHING CAPACITY PROVIDED = 885 5F. X 0.74 G/5F/D = 654 G/D.
 TOTAL LEACHING CAPACITY PROVIDED = 654 G/D.
 TOTAL HYDRAULIC LOADING REQUIRED = 550 G/D.



New Sewage Disposal System
 In The Town Of Chilmark

Site:
 Proposed Three Bedroom House Plus Future One Bedroom Addition Plus Proposed One Bedroom in Existing House for a Total of Five Bedrooms
 Map 4, Parcel 22.2
 157 North Road A,B

Owner:
 Vagelos Vineyard Properties 2 LLC
 c/o Marks Paneth & Sharon, LLP
 ATTN: Robert Hughes
 685 Third Avenue, 4th Floor
 New York, NY 10017

Scale: As Shown
Job No.: 102684
Drawing No.: 102684SP
Sheet: 1 of 1

Date: July 14, 2023
Drawn By: H. Chen
Designed By: H. Chen
Checked By: G. Sourati

Revisions:

Professional Land Surveyors
Sourati Engineering Group LLC
 P.O. Box 4458
 107 Beach Road, Suite 202
 Vineyard Haven, MA 02568
 Phone: (508) 693-9933
 Fax: (508) 693-4933