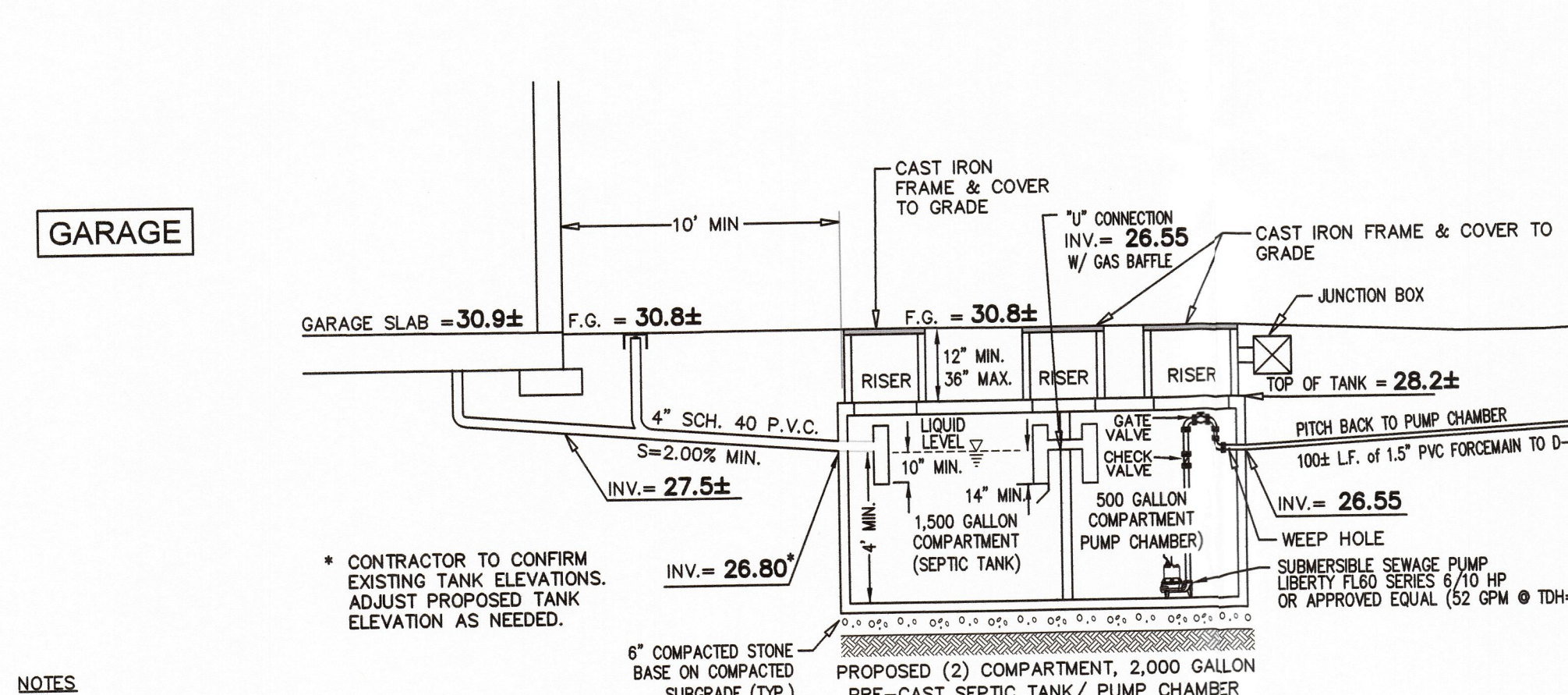
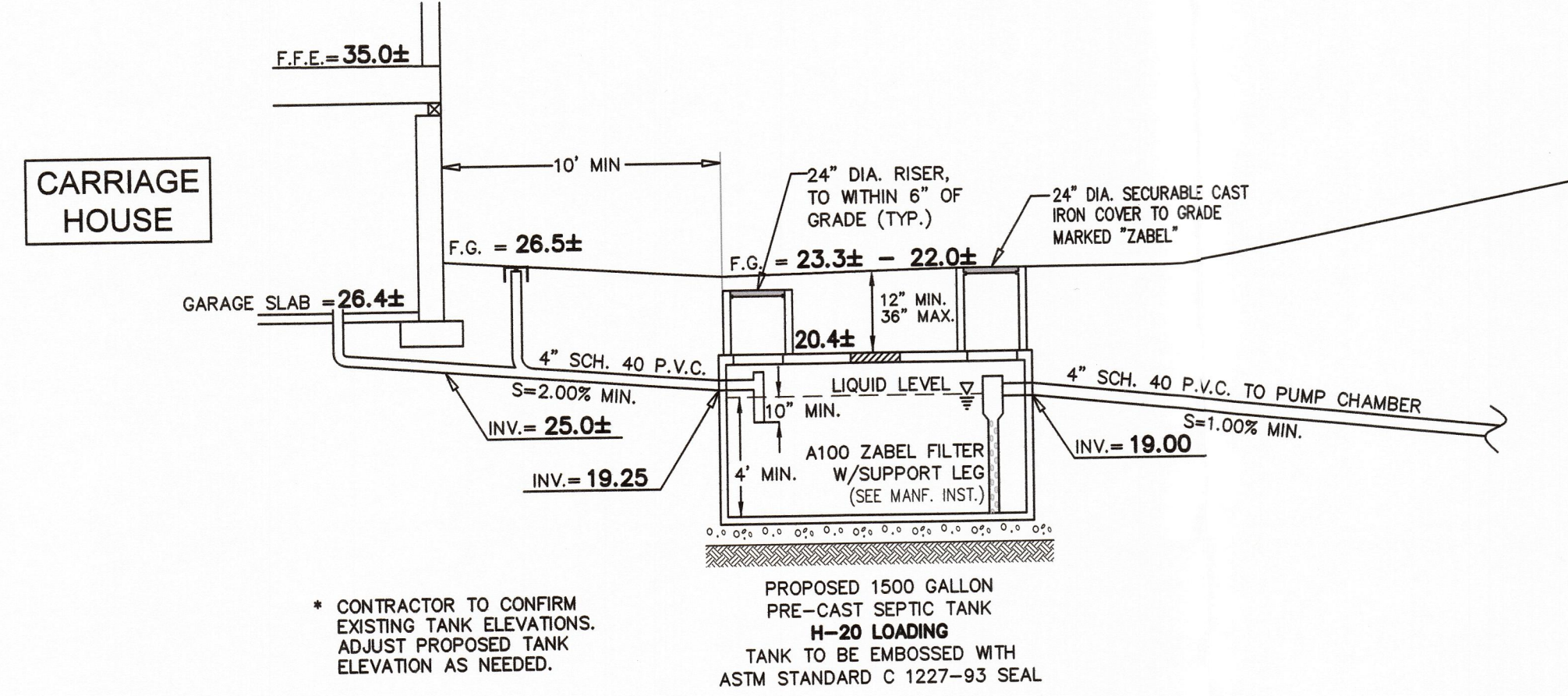
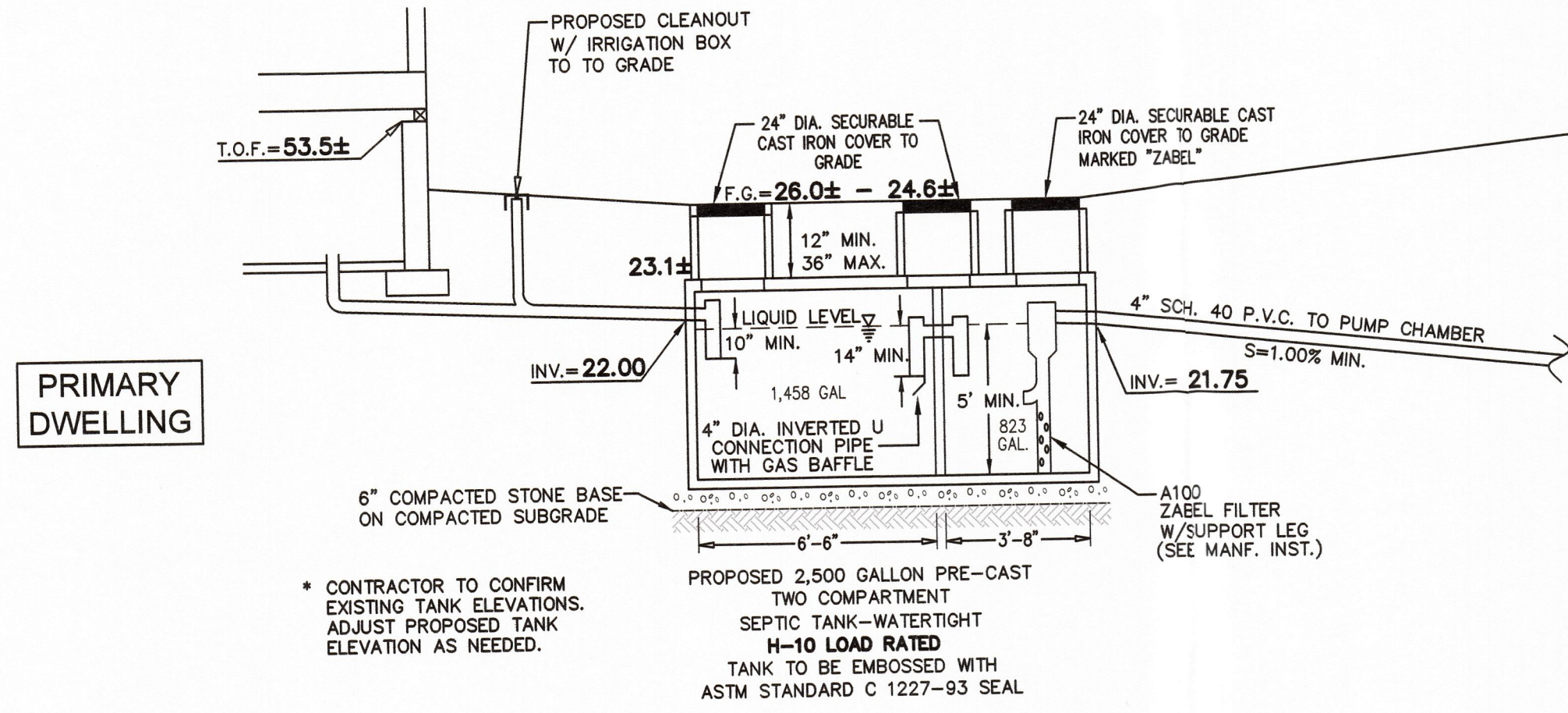


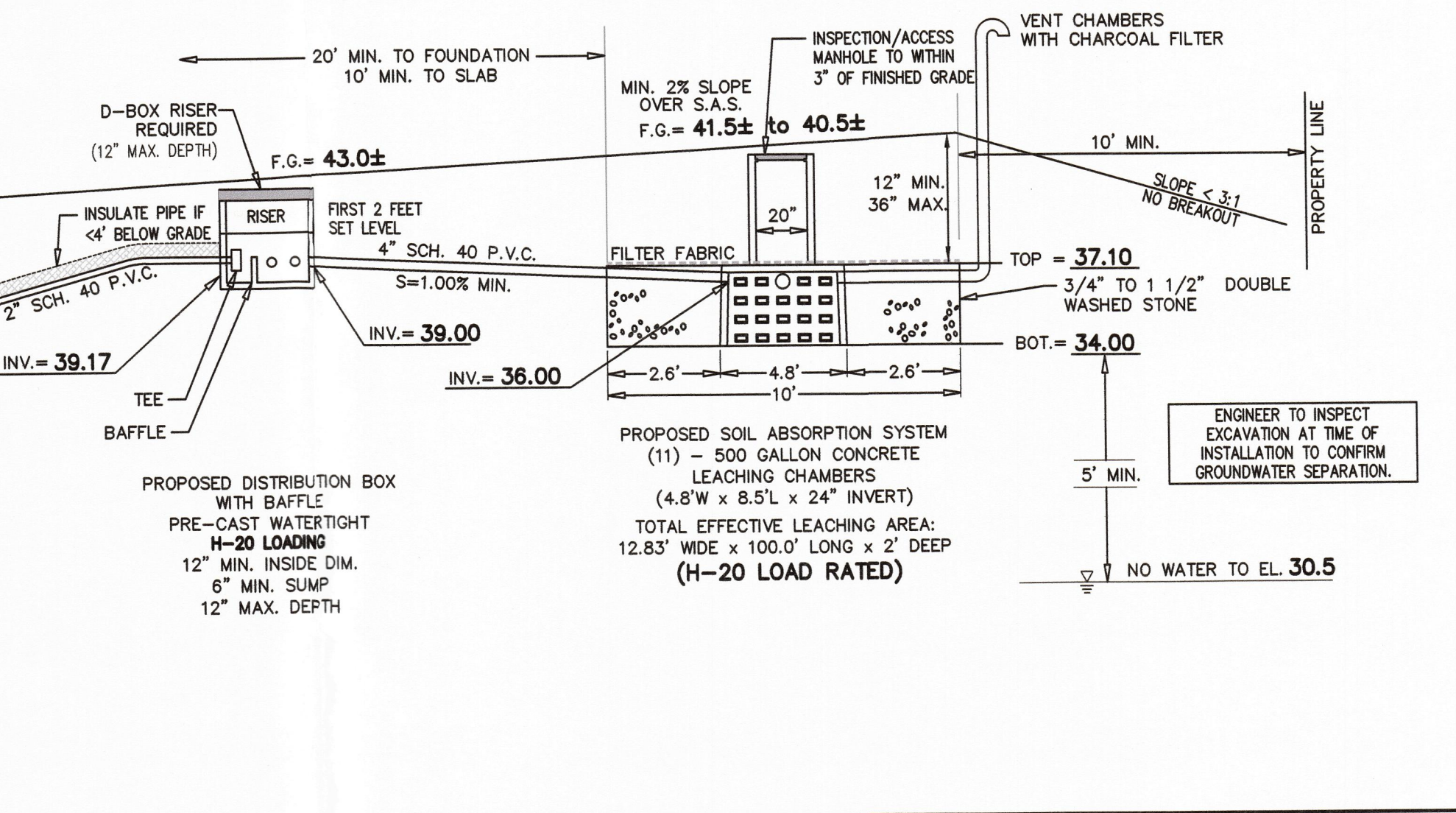
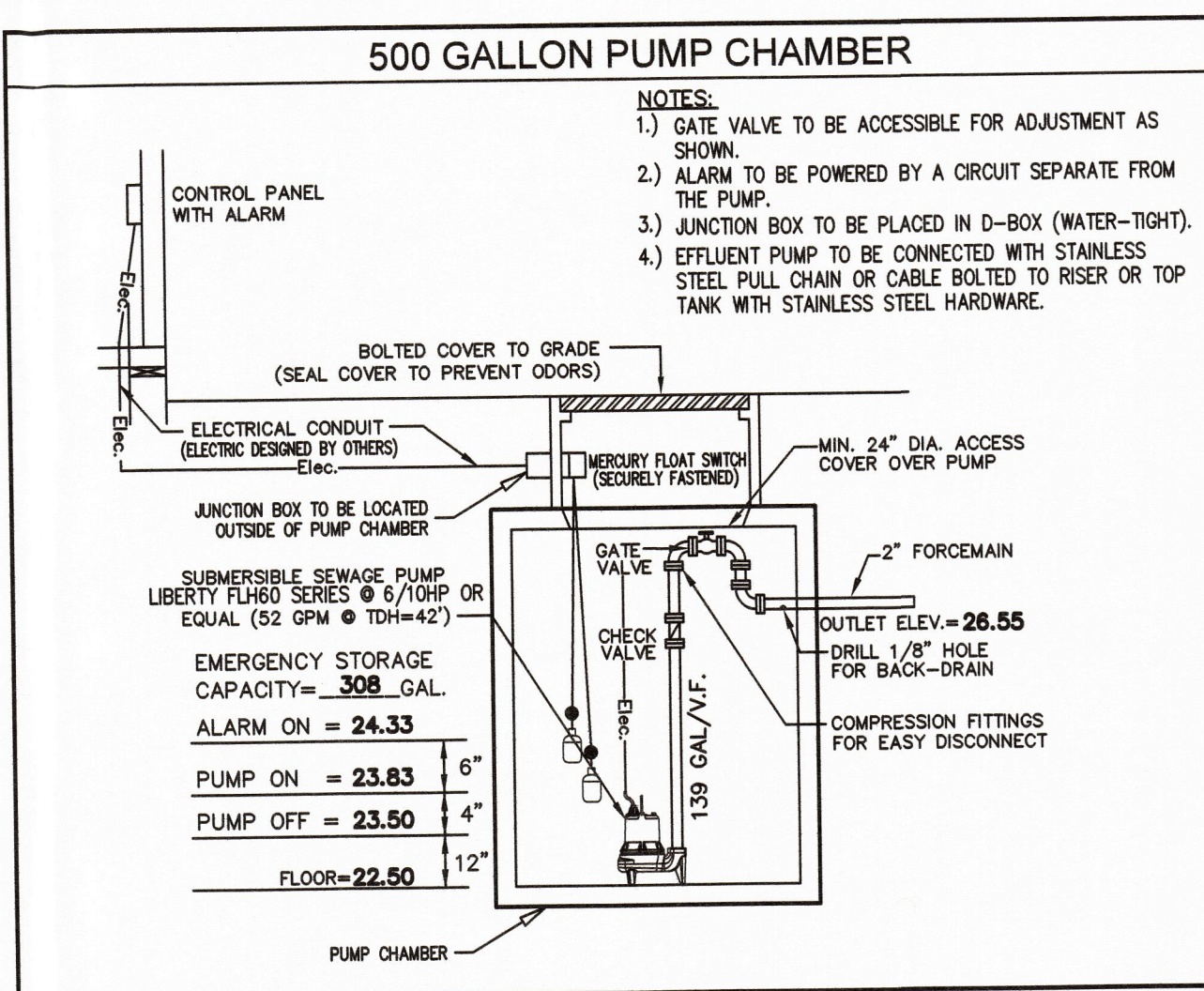
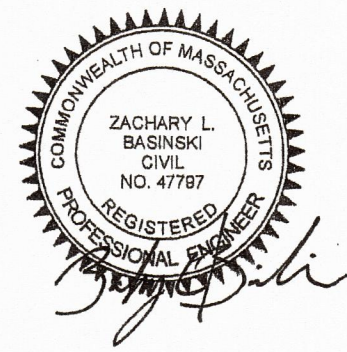
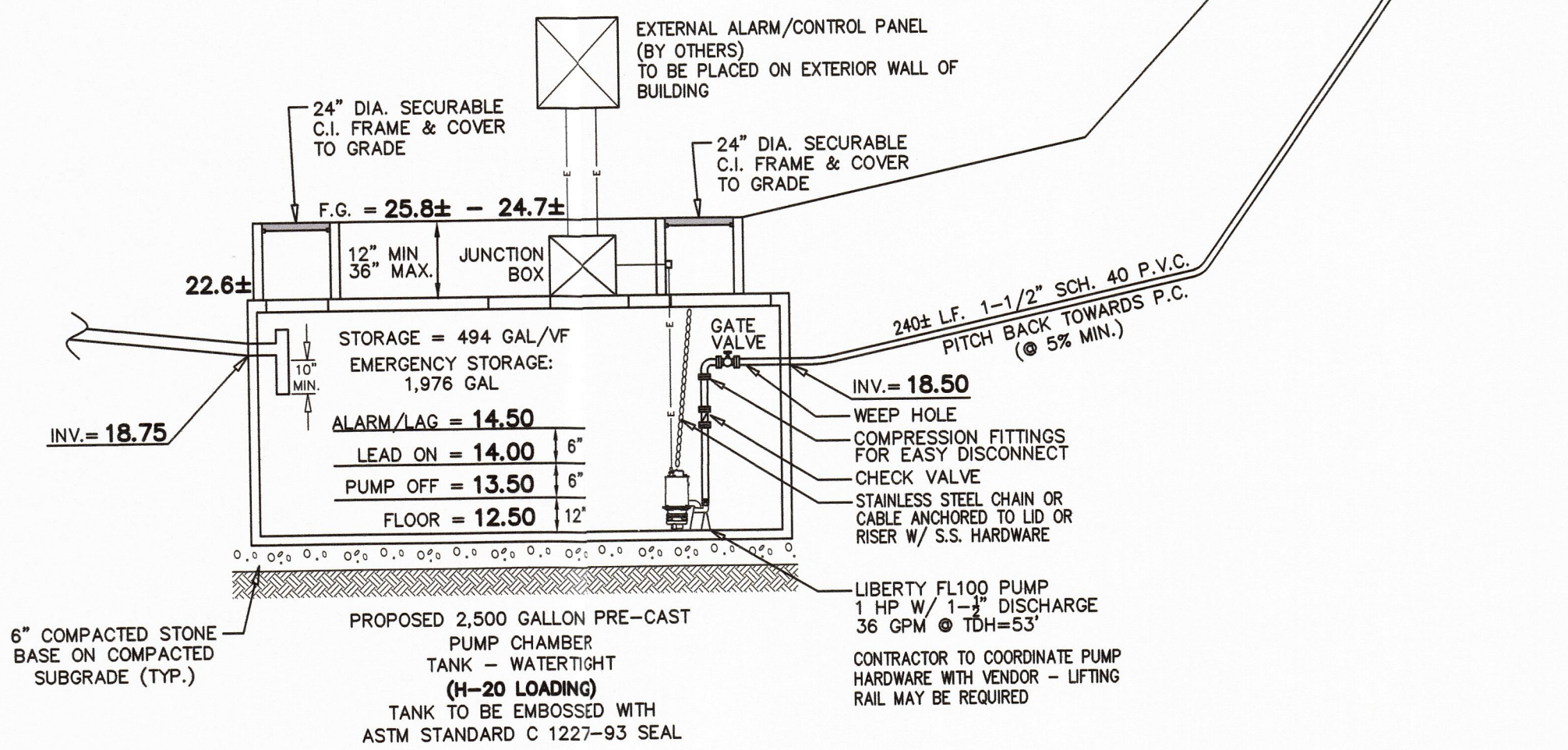
SYSTEM PROFILE
NOT TO SCALE



NOTES:

- ALL SYSTEM COMPONENTS TO BE MARKED WITH MAGNETIC MARKING TAPE.
- ALL SYSTEM COMPONENTS TO BE WITHIN 36" OF FINISHED GRADE UNLESS OTHERWISE NOTED.
- ALL PLUMBING WITHIN 10 FEET OF THE FOUNDATION TO BE INSTALLED BY A LICENSED PLUMBER.
- WHERE NOT ALREADY SHOWN, ANY BEND IN A SEWER PIPE BETWEEN THE FOUNDATION AND SEPTIC TANK SHALL REQUIRE AN EXTERNAL CLEANOUT. CONSULT DESIGN ENGINEER FOR TYPE AND LOCATION.

CONTRACTOR TO CONFIRM EXISTING TANK ELEVATIONS. ADJUST PROPOSED TANK ELEVATION AS NEEDED.



DESIGN CALCULATIONS

SOIL TEXTURAL CLASS:	CLASS I
PERC. RATE:	< 2 MINUTES/INCH
NO. OF BEDROOMS:	7 (PER WALKTHROUGH)
DESIGN FLOW REQUIRED:	1,210 GPD (MIN.)
SEPTIC TANK REQUIRED:	1,500 GALLONS
SEPTIC TANK PROVIDED:	1,500 GALLONS
PRIMARY DWELLING:	
NO. OF BEDROOMS:	7 (PER WALKTHROUGH)
SEPTIC TANK REQUIRED:	2,000 GALLON
SEPTIC TANK PROVIDED:	2,500 GALLON (2-COMPARTMENT)
PUMP CHAMBER PROVIDED:	2,500 GAL (SEE DETAIL FOR PUMP CALCULATIONS)
CARRIAGE HOUSE:	
NO. OF BEDROOMS:	3 (PER BOH RECORDS)
SEPTIC TANK REQUIRED:	1,500 GALLON (MIN. REQUIRED)
SEPTIC TANK PROVIDED:	1,500 GALLON
PUMP CHAMBER PROVIDED:	2,500 GAL (SEE DETAIL FOR PUMP CALCULATIONS)
GARAGE:	
NO. OF BEDROOMS:	1 (PER WALKTHROUGH)
SEPTIC TANK REQUIRED:	1,500 GALLON (MIN. REQUIRED)
SEPTIC TANK PROVIDED:	1,500 GALLON
PUMP CHAMBER PROVIDED:	500 GAL (SEE DETAIL FOR PUMP CALCULATIONS)

SOIL LOGS

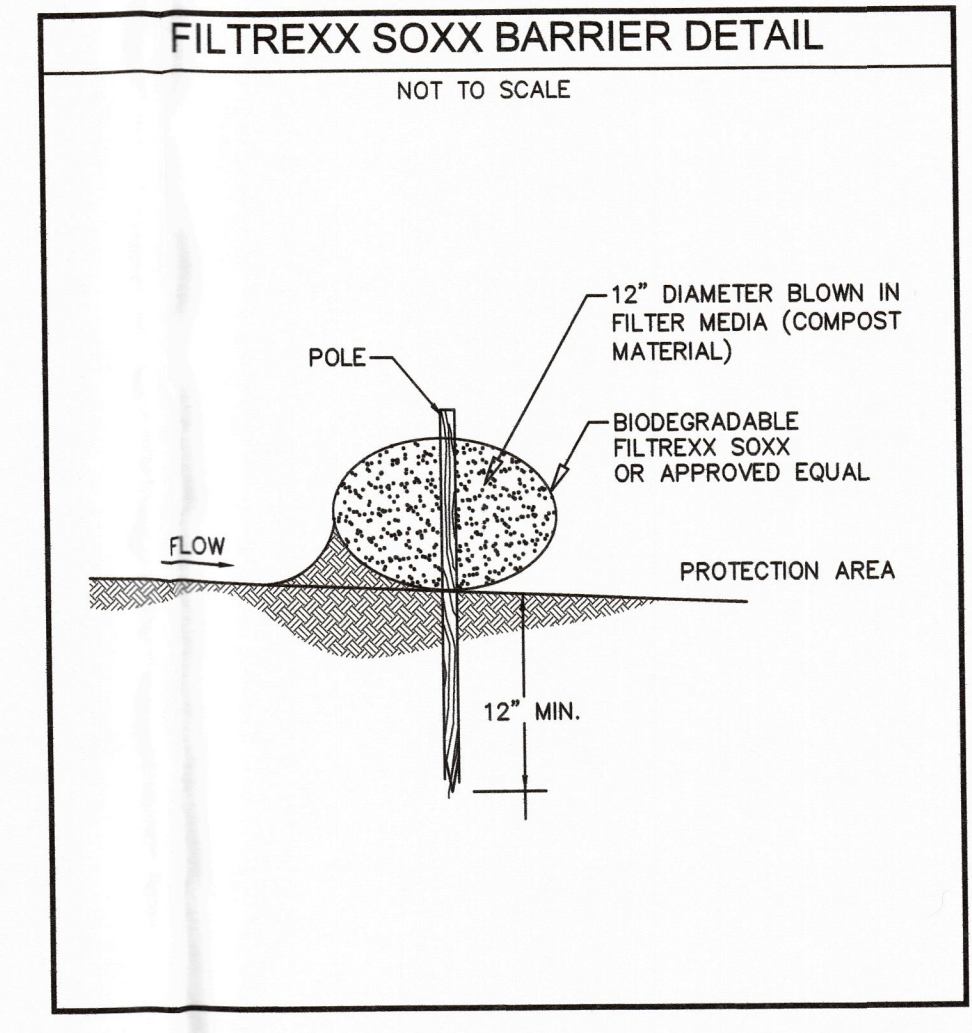
TP NO.:	1/2
GRD. EL.:	40.5
GW. EL.:	NONE TO 30.5
0'	A/O LOAMY SAND 10YR 3/3
8'	Bw LOAMY SAND 10YR 5/4
28'	C MED. SAND 2.5Y 6/8
120'	NO REDOX NO WATER

PROPOSED LEACHING SYSTEM:
(11) 500 GAL CONCRETE LEACHING CHAMBERS IN A (12.83' WIDE x 100' LONG x 2' DEEP STONE BED

EFFECTIVE LEACHING:
12.83' WIDE x 100' LONG x 2' DEEP
BOTTOM AREA = 1,283 S.F.
SIDEWALL AREA = 451 S.F. TOTAL = 1,734 S.F.
LOADING RATE = 0.74 GPD/SF
FLOW PROVIDED: 1,283 GPD > 1,210 GPD

SOIL DISCLAIMER

SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION MAY DIFFER FROM THE PREVIOUSLY OBSERVED CONDITIONS AT THE TEST PITS. ADDITIONAL REMOVAL AND REPLACEMENT OF SOIL MAY BE REQUIRED IF UNDESIRABLE CONDITIONS ARE ENCOUNTERED. THE DESIGN ENGINEER SHALL BE CONSULTED IF SUCH SUCH CONDITIONS ARE FOUND.



Prepared By:

BRACKEN ENGINEERING, INC.

49 HERRING POND ROAD BUZZARDS BAY, MA 02532 (tel) 508.833.0070 (fax) 508.833.2282

19 OLD SOUTH ROAD NANTUCKET, MA 02554 (tel) 508.325.0044 (fax) 508.833.2282 www.brackeneng.com

PROPOSED SEPTIC UPGRADE PLAN IN BOURNE, MASSACHUSETTS

Prepared For:

681 HOTB, LLC

#681 HEAD OF BAY ROAD
MAP: 14.0 PARCEL: 47

No.	Date	Revision	Description	By

Date: AUGUST 11, 2022 Drawn: RED/ERC/BE Checked: ZLB/AMG Sheet: 1 of 2