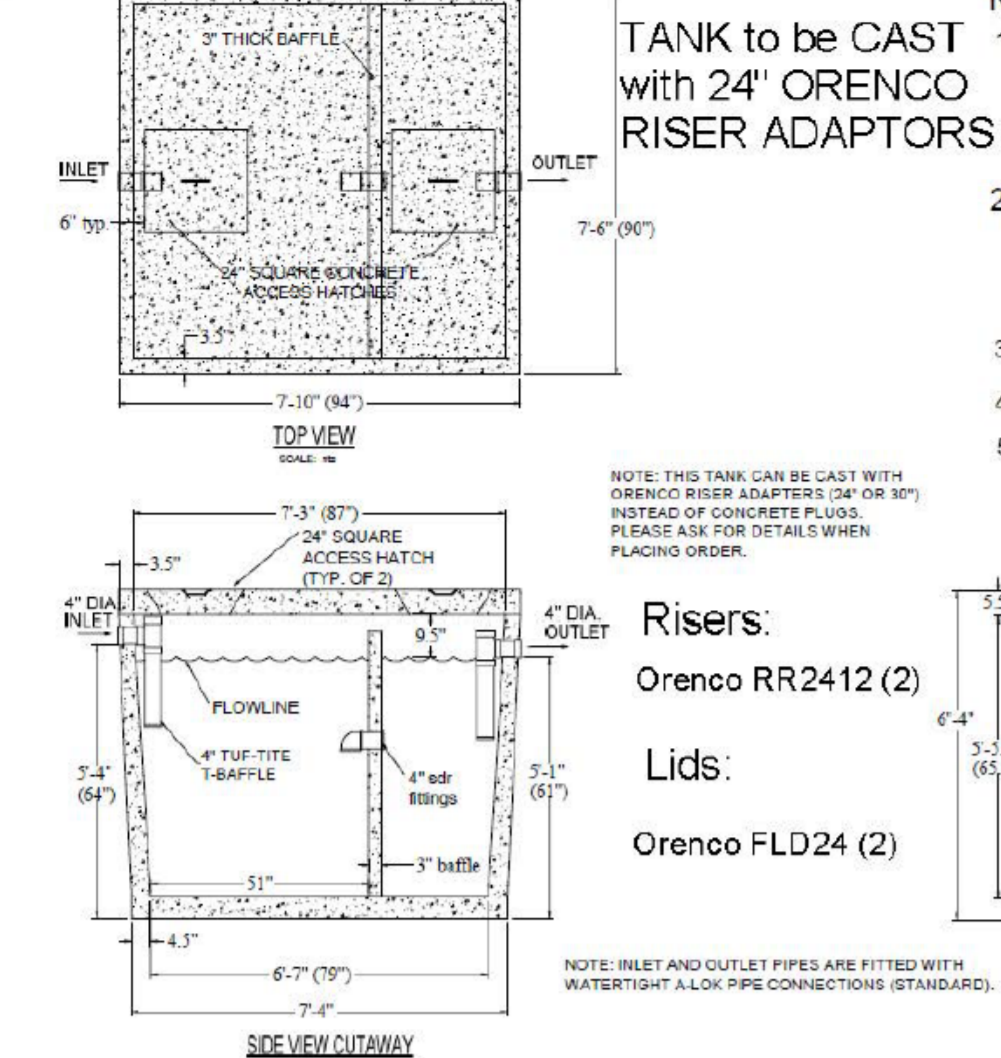


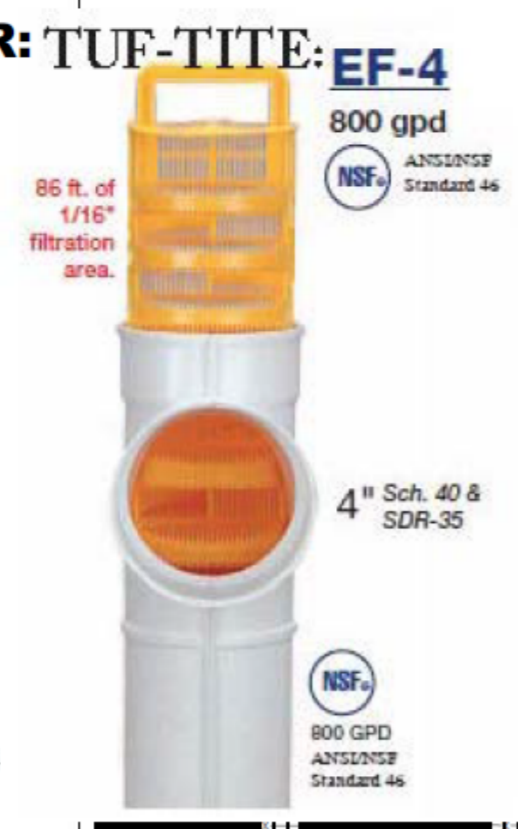
SEPTIC TANK:



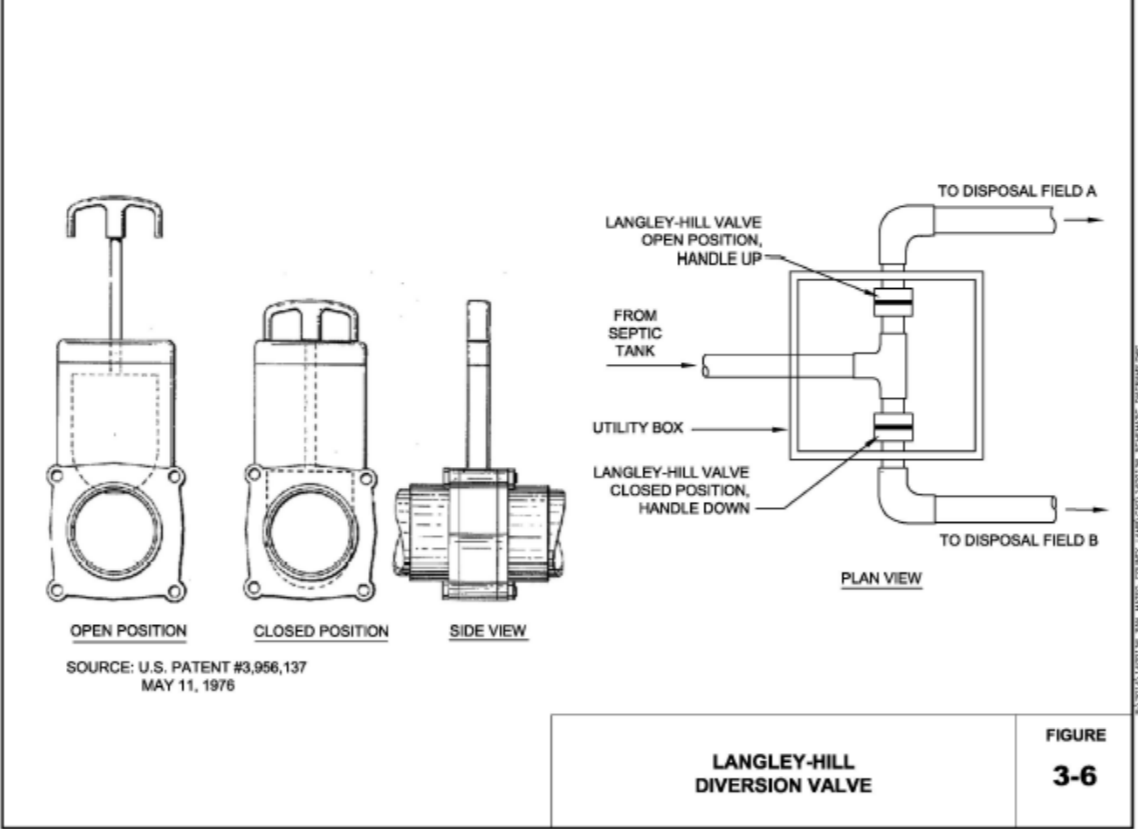
NOTES:

- EXCAVATION SPECIFICATIONS:
LENGTH 9'-0"
WIDTH 9'-0"
DEPTH BELOW INLET 5'-4"
DO NOT CHANGE THE LOCATION OR MAKE CHANGES TO THE DESIGN AND OR TO THE DIMENSIONS WITHOUT NOTICE. PLEASE CONTACT DON CHAPIN PRE-CAST WHEN NECESSARY TO CONFIRM DESIGN CRITERIA.
- CERTIFIED ENGINEERING IS AVAILABLE UPON REQUEST.
- THIS IS ALSO AVAILABLE AS AN IOD RATED ASSEMBLY.
- INTERNAL TOP TO BODY DESIGN.

EFFLUENT FILTER: TUF-TITE: EF-4



DIVERTER VALVE:



INFILTRATIVE AREA CALCULATIONS & SPECIFICATIONS

TYPE OF SEPTIC SYSTEM: Conventional Gravity Flow with Infiltration Chambers

DESIGN CALCULATIONS:	DRAINFIELD TRENCH SPECIFICATIONS:
Average Percolation Rate: 7 MPI (HOLES 1-6)	Drainfield Dimensions: 3 ft width x 2.5 ft depth
Design Application Rate: 1.04 gal/sq. ft./day	Slope in Drainfield Area: FLAT (less than 1%)
Peak Wastewater Flow: 300 gpd (2 BR)	Horizontal Drainfield Spacing: 6 ft o.c. (minimum)
Req. Infiltrative Area: 289 ft ² (300 gpd/1.04 gpd/ft ²)	GW Below Trench: 9.5 ft (Hydrogeologist's Report)
Infiltrative Area per Linear Ft Trench: 4 sq. ft.	Reduced length for chambers: 51 ft (72 - 0.3x72)
Trench Length (each side DV): 72 ft (289 ft ² /4 ft/ft ²)	Required Depth to GW: 8 ft
DV=Diverter Valve	

Gravity Flow Calculations:

FINISHED FLOOR:	259.5 ft	SEPTIC TANK OUTLET:	253.8 ft
SEPTIC TANK INLET:	254.1 ft	DRAINFIELD CHAMBER INLET:	253.6 ft
PIPE RUN:	10.0 ft	PIPE SLOPE:	0.6%
PIPE SLOPE:	54%		

SEPTIC TANK BURIAL DEPTH IS 6 INCHES TO TOP OF UNIT.
(additional 6 inches of fill soil to be placed over tank of 12" minimum soil cover)

PROJECT SCOPE & RATIONALE:

This project is to construct a new 2 BR residence. This will be a 2nd unit at the parcel until the lot is subdivided.

A conventional septic system was selected due to ground slope less than 20%, acceptable separation to the highest seasonal groundwater documented in the attached hydrogeologist's report, and a favorable average percolation rate.

LEGEND:

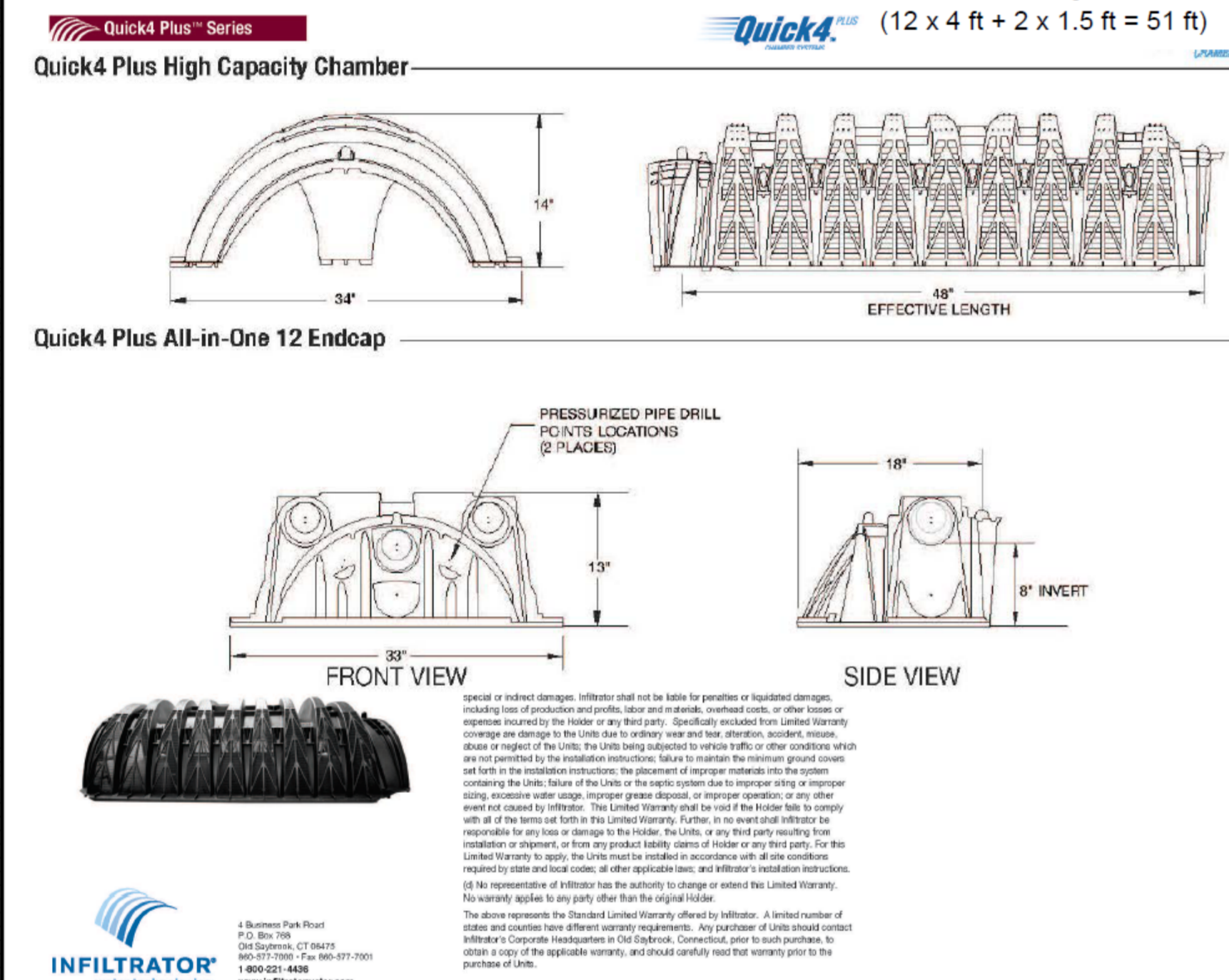
- P1 - P6 = perc test holes
- SP1, 2 = soil profile test holes
- [Symbol] = proposed drainfields

THE DON CHAPIN COMPANY
PRE-CAST DIVISION
2735 BOLSARA RD
HOLLISTER, CA 95023
831-430-1942
831-430-5763 FAX

PRE-CAST CONCRETE WATER TIGHT SEPTIC TANK
CAPACITY 1500 GALLONS
MODEL IPS1500

2/12/09

DRAINFIELD CHAMBERS: 12 CHAMBERS and 2 END CAPS per trench



Note regarding perc test hole locations: The banks of Llagas creek channel were widened since the time of testing. This resulted in test hole being located slightly outside of the proposed drainfields area. Due to very consistent soil profile and perc test data across the area, we request that no additional perc test be required.

SOIL PERCOLATION TEST RECORDED MEASUREMENTS (Electronic Version by Chris Day, R.E.H.S.)

HOLE #1	DEPTH: 2 1/2 ft	HOLE #2	DEPTH: 2 1/2 ft
START TIME	FINISH TIME	START TIME	FINISH TIME
9:48	10:30	10:33	11:03
11:01	11:11	11:04	11:14
11:12	11:22	11:14	11:24
11:23	11:33	11:24	11:34
11:34	11:44	11:35	11:45
11:54	12:04	11:46	11:57
12:05	12:15	11:58	12:08
12:16	12:25	12:09	12:19
12:26	12:36		
HOLE #3	DEPTH: 2 1/2 ft	HOLE #4	DEPTH: 1 3/4 ft
START TIME	FINISH TIME	START TIME	FINISH TIME
9:51	10:34	10:37	11:07
11:09	11:19	11:12	11:22
11:20	11:30	11:28	11:38
11:40	11:48	11:49	11:59
11:50	12:08	11:59	12:09
HOLE #5	DEPTH: 2 3/4 ft	HOLE #6	DEPTH: 2 1/2 ft
START TIME	FINISH TIME	START TIME	FINISH TIME
10:30	11:09	10:41	10:11
11:10	11:20	10:11	11:21
11:20	11:30	11:22	11:32
11:31	11:41	11:33	11:43
11:41	11:51	11:43	11:53
11:51	12:01	11:54	12:04
12:02	12:12	12:05	12:15
12:15	12:25	12:15	12:25

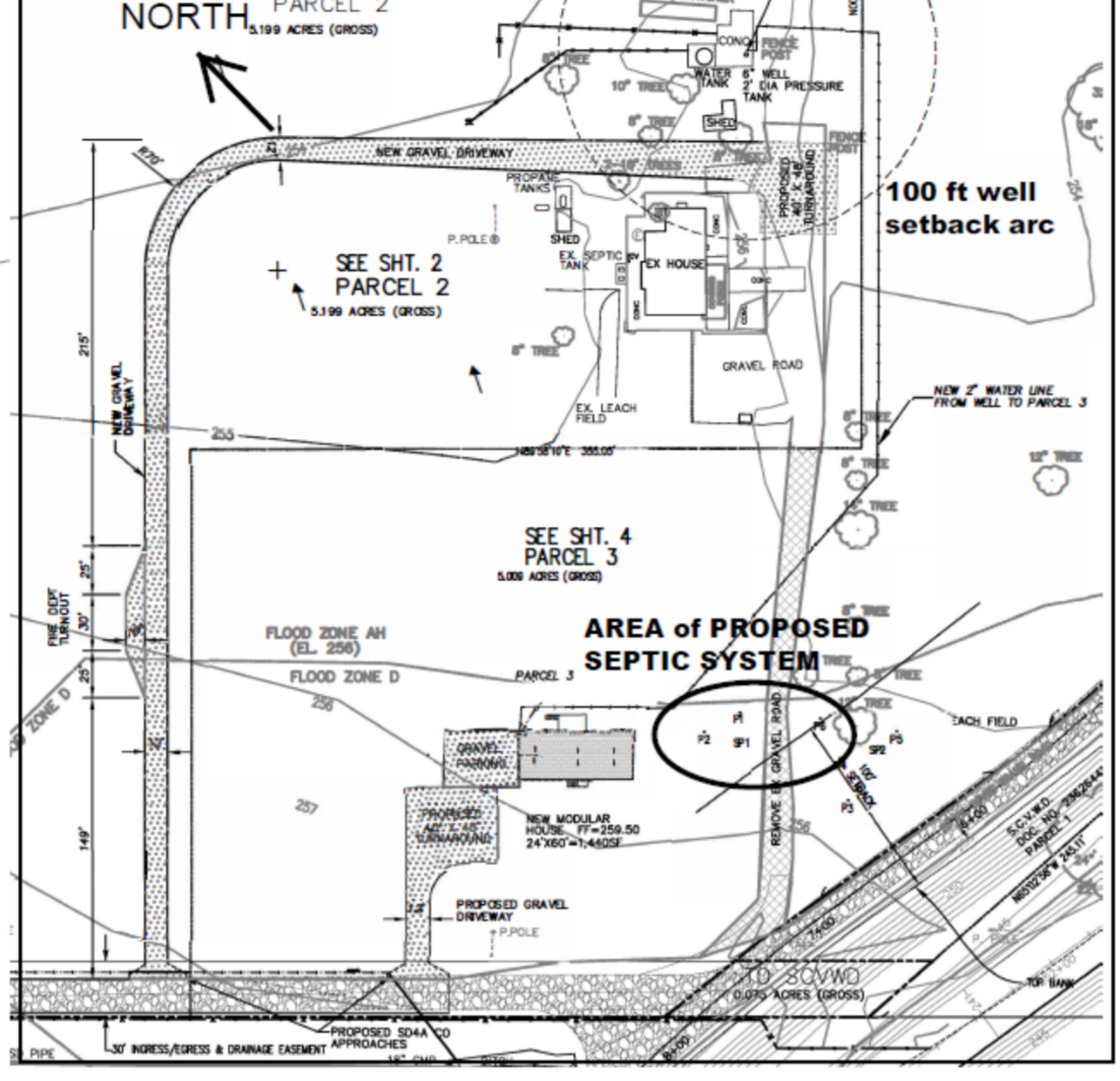
Free ground water noted at depth of 13.0 feet

Total depth of excavation 13.0 feet

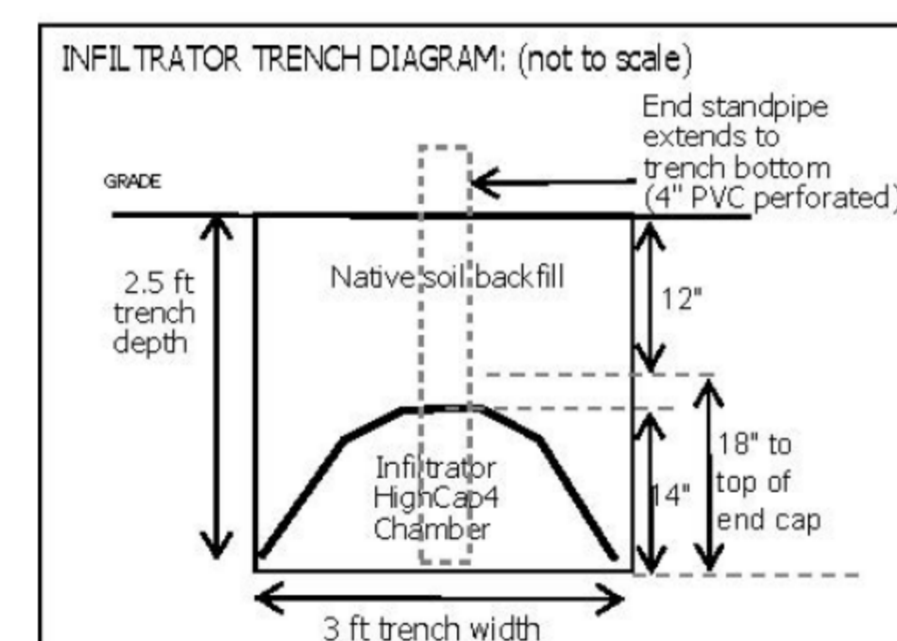
GPS coordinates: N 37° 03.899', W 121° 35.367'

December 31, 2019

SITE PLAN at 100 SCALE: (from current grading/drainage plan)



DRAINFIELD TRENCH:



HYDROGEOLOGIST REPORT: (Geoconsultants, Inc)

Mr. Juan Contreras
January 31, 2020
Page 4

12.2 feet or an equivalent elevation of 249.9 feet, and for the downgradient well it was 17.4 feet, equivalent to an elevation of 231.8 feet.

Regional ground-water elevation contour lines are generally at a right angle to the axis of southern Santa Clara Valley in the vicinity of the project site and exhibit a decreasing gradient from north to south, generally following the configuration of the surface topography (California Department of Water Resources, 1981). Based on the shallowest depth to the ground water level in the two monitoring wells in February 2017, a ground-water gradient reflecting this condition is thus established between the upgradient well, the project site, and the downgradient well. In this manner, with a surface elevation of 256.0 feet in the proposed dispersal areas in Parcel 1 and Parcel 3, the elevation of the highest anticipated ground-water level is 244.0 feet, equivalent to a depth of 12.0 feet (256.0 - 244.0).

CONCLUSIONS

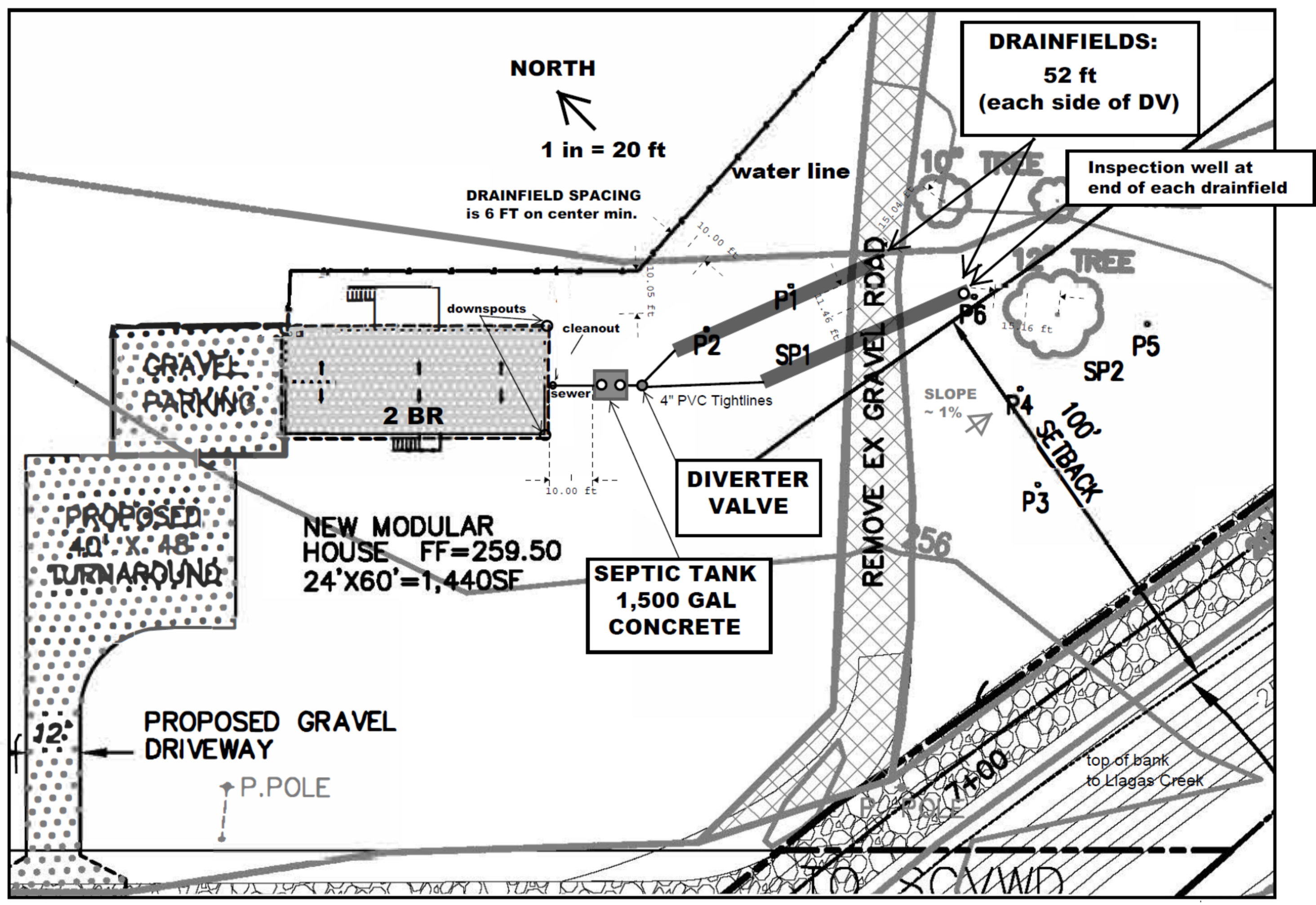
As discussed in the previous section on subsurface conditions, there was no evidence from the deeper soil units exposed in the test pits that the depth to ground water had ever been any less than 12 feet at the two proposed OWTS dispersal areas. Considering this condition and the historic shallow ground-water elevation measurements from the two monitoring wells that established a ground water gradient through the site in February 2017, it is our opinion that for design purposes 12 feet should be used as the shallowest anticipated depth to the ground-water table during an extended period of wet weather.

LIMITATIONS

Geoconsultants, Inc. has provided its findings, recommendations, specifications, and professional advice after preparing such information in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the field of hydrogeology. This acknowledgment is in lieu of all warranties either express or implied.

Geoconsultants, Inc. does not guarantee nor warrant that a satisfactory septic disposal system can be developed at the subject site or warrant or guarantee approval of the project by regulatory authorities.

SITE PLAN: (showing current grading/drainage plan)



ANNUAL SEPTIC TANK INSPECTION REQUIRED:	ON-SITE WATER TIGHTNESS TESTING
1) Access risers & lids in good condition.	(REQUIRED PRIOR TO SEPTIC TANK USE)
2) Structural Integrity - probe interior walls/baffles, inlet/outlet T-pipes.	1. FILL TANK TO 2" INTO BOTTOM OF RISER
3) Check Tuf-Tite effluent filter and clean if needed.	2. LET TANK SIT FOR 1 HOUR
4) Septic tank liquid level - should be at outlet invert in tank.	3. OBSERVE WATER LEVEL IN RISER BEFORE AND AFTER 1 HR PERIOD
MATERIAL EXCEED 30% OF TANK VOLUME OR ENDOUCH ON INLET/OUTLET T'S	4. IF LEVEL HAS FALLEN, INSPECT FOR LEAKS
MINIMUM SEPTIC TANK PUMPING FREQUENCY IS 3 TO 5 YEARS.	5. REPAIR ANY LEAKS AND REPEAT TEST