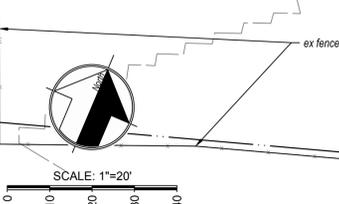


**SEWAGE SYSTEM REVIEW**  
 SANTA CLARA COUNTY  
 DEPARTMENT OF ENVIRONMENTAL HEALTH  
 Project Description SR No. SR0869829  
 New 4 bedroom Single Family Dwelling

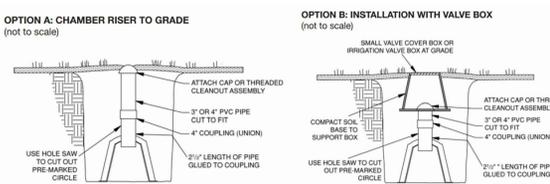
**APPROVAL RECOMMENDED**  
 With existing System (Existing No. )  
 X Install/modify system per plan (describe below)  
 [Obtain a permit from Environmental Health]

New 1500 gallon septic tank w/ 296 + 296 linear feet dispersal field at 4 sqft using Quick4 High Capacity Chambers w/ diversion valve

R.E.H.S. Peter Estes Date 02/24/2023  
 Not A Sewage System Permit. Plan is void if absent signature



**Water Tightness Testing**  
 Testing must be witnessed by a representative of the County Department of Environmental Health Services. Testing shall be done with the risers in place and the inlet and outlet pipes plugged. The tank shall be filled with water to a level of two (2) inches into the risers and monitored for a one (1) hour period with no measurable drop in the water level.

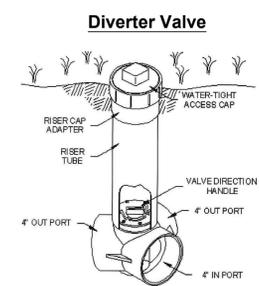


Typical Inspection Riser Detail

**SOIL PROFILE INSPECTION RESULTS**

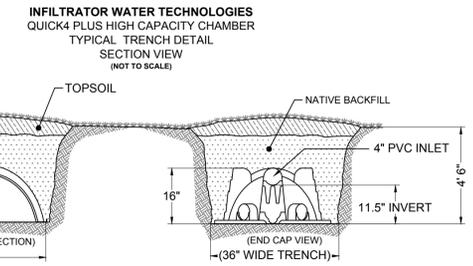
OWNER: Marla Carroll DATE OF INSPECTION: 8/12/2022  
 ADDRESS: 511 Korn Lane CITY: Gilroy  
 APN: 835-08-059 CONDUCTED BY: [Signature] CHECKED BY: [Signature]

DEPTH	SOIL TYPE	REMARKS
0'-0"	Silty clay	
0'-6"	Silty sand - clay	Some gravel
0'-12"	Silty sand - clay	Gravel - clay
0'-18"	Silty sandy clay	Gravel - clay
0'-24"	Silty sand - gravel	Gravel - clay
0'-30"	Silty sand - gravel	Gravel - clay
0'-36"	Silty sand - gravel	Gravel - clay
0'-42"	Silty sand - gravel	Gravel - clay
0'-48"	Silty sand - gravel	Gravel - clay
0'-54"	Silty sand - gravel	Gravel - clay
0'-60"	Silty sand - gravel	Gravel - clay



**OPERATING THE VALVE**  
 The Bull Run Valve should be rotated periodically to direct effluent to one or the other of two septic fields. After removing the screw cap at the top of the riser tube, the valve handle can be turned with the valve key furnished.

- Construction Notes**
1. Install Chapin Precast "Pinnacle" septic tank Model PDI-1500 with Orenco riser adapters with gas tight lids
  2. Septic tank must have effluent filter cartridge installed on the outlet.
  3. The septic tank must pass the water tightness test required by DEH.
  4. The top of the tank must be no deeper than 12" below grade.
  5. Install Bull Run diversion valve in location shown. The diversion valve shall be enclosed (covered) by a Oldcastle Precast Underground box (10"x16") or equal with waterproof cover.
  6. Install dual dispersal fields of 300 linear feet each side of the diversion valve as shown.
  7. Install Quick 4 High Capacity Chambers in lieu of conventional rock at a depth of 4' 6". (See detail)
  8. Each dispersal trench shall be separated 6 feet apart measured from center to center.
  9. Each outlet of the diversion valve shall connect to a 4" PVC manifold pipe as shown.
  10. The manifold pipe shall be level to ensure even distribution of effluent from the diversion valve.
  11. The bottom of the dispersal trenches shall be level from one end to the other. A tripod mounted laser shall be used.
  12. Install inspection port at end of each trench and cover each riser with a utility box for ease of access and protection from damage.
  13. No portion of the dispersal field shall be within 100 feet of a well.



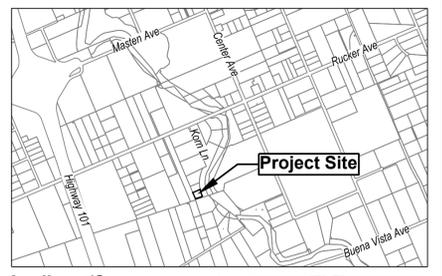
Typical Trench Detail

**Sizing Calculations**  
 Carroll  
 Four (4) Bedrooms  
 Stabilized Percolation Rate (MPI)  
 P1 = 84, P2 = 48, P3 = 48, P4 = 84, P5 = 84, P6 = 84  
 Average Stabilized Percolation Rate = 72.0 MPI  
 Wastewater Application Rate = 0.31 GPD/SQFT

Wastewater design flow = 525 GPD  
 Stabilized percolation rate = 72 MPI  
 Wastewater application rate = 0.31 GPD/SQFT  
 Width of Trench = 24 Inches  
 Rock below perforated drain pipe = 12 inches  
 Infiltration area per linear foot = 4

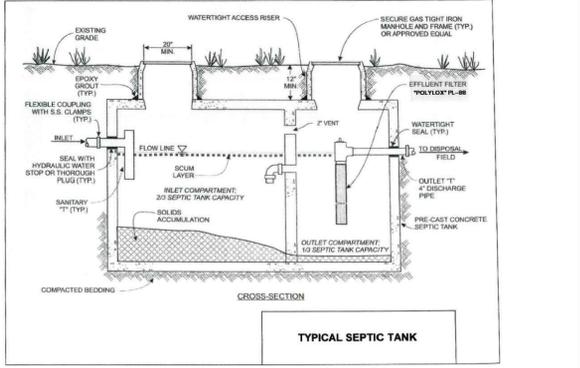
**Design Calculations**  
 525 GPD / 0.31 = 1,693  
 1693 / 4 = 423 LF  
**Dispersal Field Requirement = 423 LF + 423 LF**

**Dispersal Field Using High Capacity Infiltrator Chambers**  
 423 - 30% = 296 LF + 296 LF



**Applicant/Owner:** Vicinity Map  
 Mark & Marla Carroll  
 10511 Korn Lane  
 Gilroy, CA 95020  
 mark-carroll@aol.com  
 408.605.5870

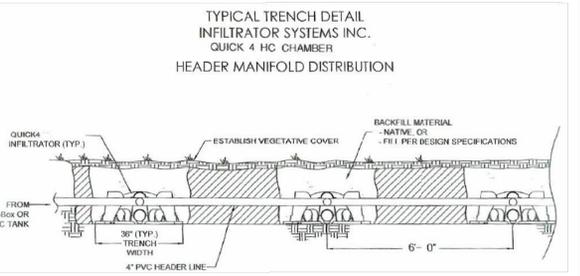
**Steve Brooks, Consulting**  
 200 Greenbrier Drive  
 Aptos, CA 95003  
 O 831-688-4391 M 408-202-9234



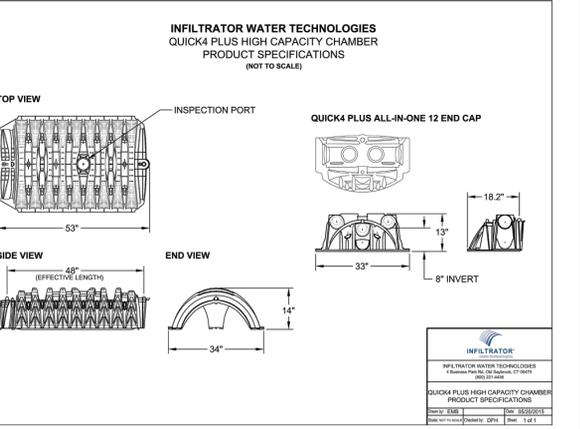
Typical Septic Tank

**Percolation Results**  
 PERCOLATION TEST CONDUCTED ON: 11/10/22

PERCOLATION HOLE (PH)	1	2	3	4	5	6
Depth	4.5'	4.5'	4.5'	4.5'	4.5'	4.5'
Stabilized MPI	80.0	34.3	34.3	80.0	80.0	80.0
Adjusted Stabilized MPI	84.0	48.0	44.0	84.0	84.0	84.0
Avg. Adj. Stabilized MPI	72.0					



Typical Trench Detail



INFILTRATOR WATER TECHNOLOGIES QUICK4 PLUS HIGH CAPACITY CHAMBER PRODUCT SPECIFICATIONS