

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

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

Project Site

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

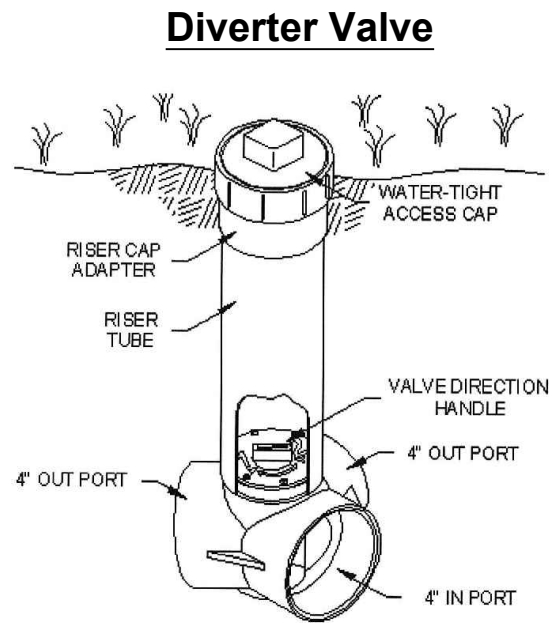
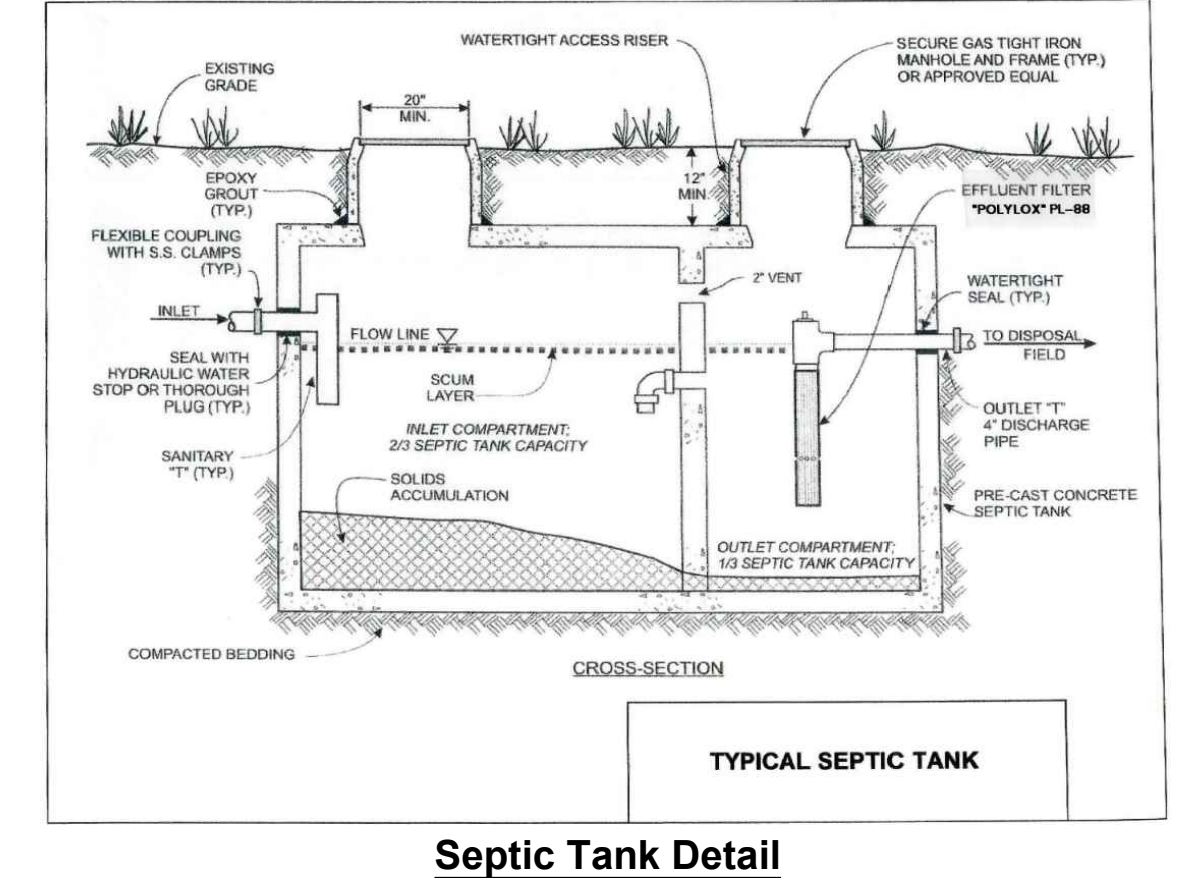
Steve Brooks, Consulting
200 Greenbrier Drive
Aptos, CA 95003
O 831-688-4391 M 408-202-9234

Steve Brooks
No. 2879
EXP. 12/31/23
STATE OF CALIFORNIA

SOIL PROFILE INSPECTION RESULTS

OWNER: Maria Carroll DATE OF INSPECTION: 8/27/22
ADDRESS: 10511 Korn Lane CITY: Gilroy
APN: 835-08-059 CONDUCTED BY: Mark Carroll CHECKED BY: Steve Brooks
S.C. U.S. 2022

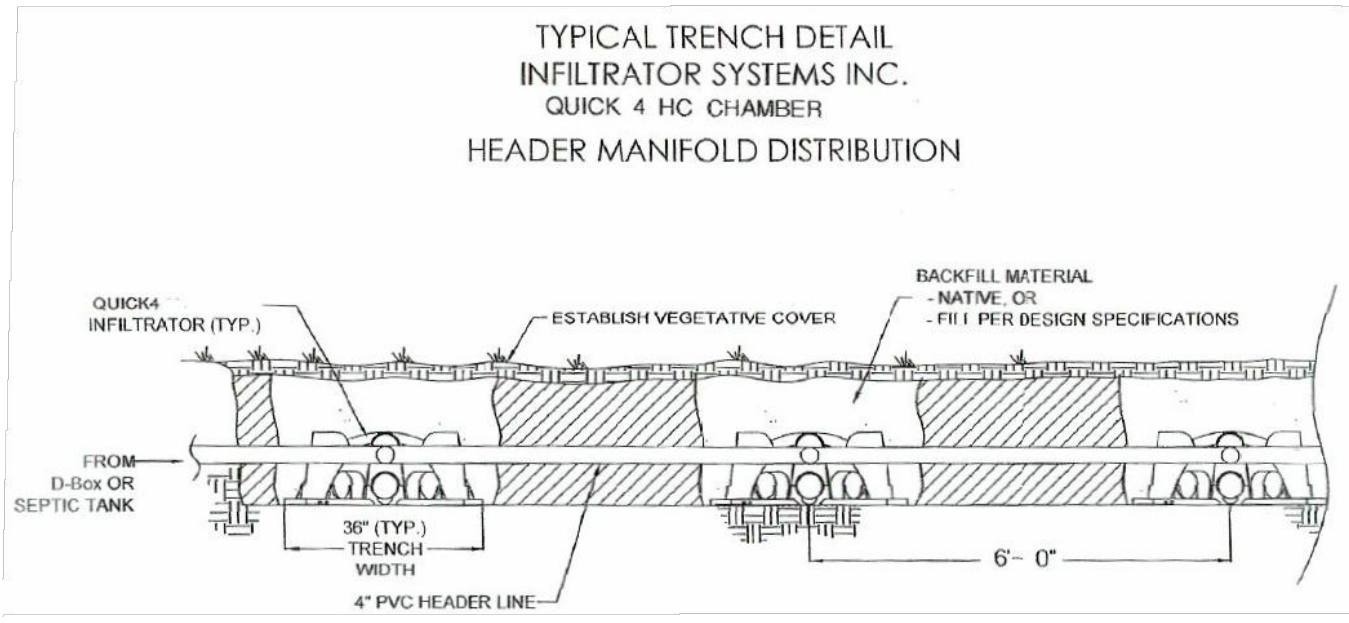
DEPTH	SOIL TYPE	DEPTH	SOIL TYPE
0' - 1'	Silty clay	10' - 11'	Silty sand - clay
1' - 2'	Silty sand - clay	11' - 12'	Silty sand - clay
2' - 3'	Silty sand - clay	12' - 13'	Silty sand - clay
3' - 4'	Silty sand - clay	13' - 14'	Silty sand - clay
4' - 5'	Silty sand - clay	14' - 15'	Silty sand - clay
5' - 6'	Silty sand - clay	15' - 16'	Silty sand - clay
6' - 7'	Silty sand - clay	16' - 17'	Silty sand - clay
7' - 8'	Silty sand - clay	17' - 18'	Silty sand - clay
8' - 9'	Silty sand - clay	18' - 19'	Silty sand - clay
9' - 10'	Silty sand - clay	19' - 20'	Silty sand - clay



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	84.0	48.0	48.0	84.0	84.0	84.0
Adjusted Stabilized MPI	84.0	48.0	48.0	84.0	84.0	84.0
Avg. Adj. Stabilized MPI	72.0					72.0
# Bottoms	FOR OFFICE USE ONLY					TANK SIZE (Gals)



- OPERATING THE VALVE**
The Bull Run Valve is available in 4" sch 40 pvc and is suitable wherever septic disposal systems are used - in commercial, industrial, and residential applications.
- 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.

