

**Sizing Calculations**  
One Bedroom Apartment, 5 Employees

**Adjusted Stabilized Percolation Rate (MPI)**  
P1 = 16.8, P2 = 84.0, P3 = 33.6, P4 = 42.0, P5 = 42.0, P6 = 42.0

Average Stabilized Percolation Rate Using Passing Holes = 51 MPI  
Wastewater Application Rate = 0.41 GPD/SQFT

1. Wastewater design flow = 150 + 75 = 225 GPD
2. Stabilized percolation rate = 51 MPI
3. Wastewater application rate = 0.41 GPD/SQFT
4. Width of Trench = 36"
5. Rock below perforated drain pipe = Infiltrator Chambers
6. Infiltration area per linear foot = 6.6

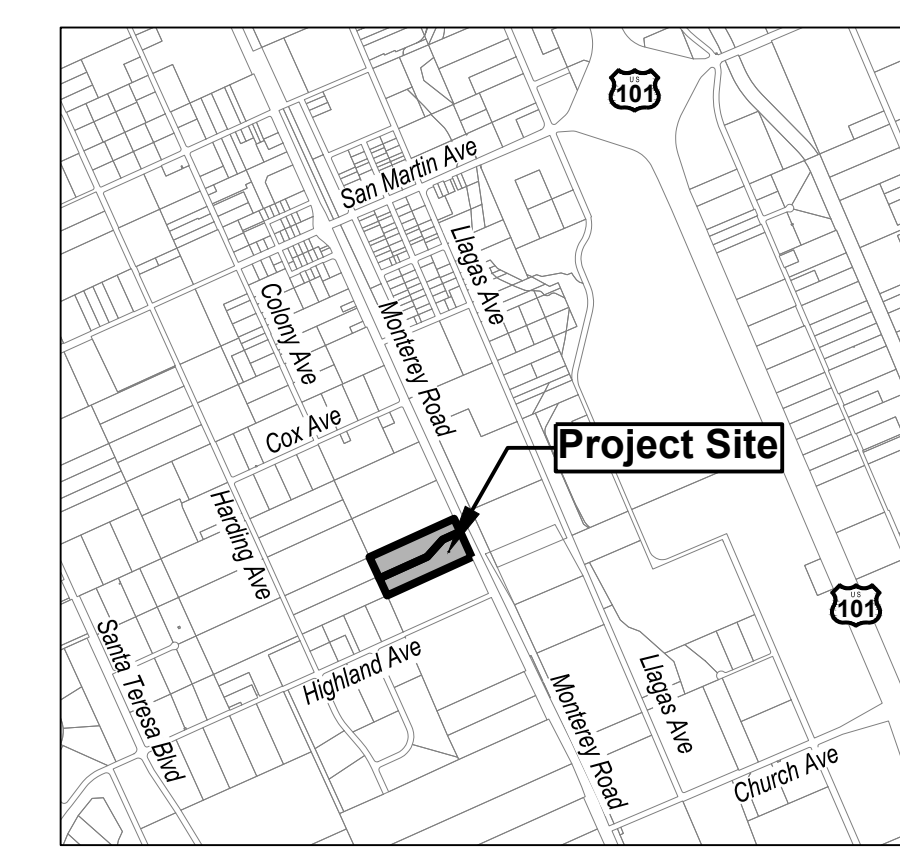
**Design Calculations**  
225 GPD / 0.41 = 548.78  
548.78 / 6.6 = 84 LF

**Proposed Dispersal Field = 88 LF + 88 LF**

**Applicant/Owner:**  
Nick Gera  
19431 Monte Vista Drive  
Saratoga, CA  
ngera@comcast.net  
408.391.9081

**Engineer:**  
David L. Faria, RCE 92432  
Faria Engineering & Surveying  
1656 Cienega Road Unit 100  
Hollister, CA 95023  
602.515.7650  
david@fariaengineering.com

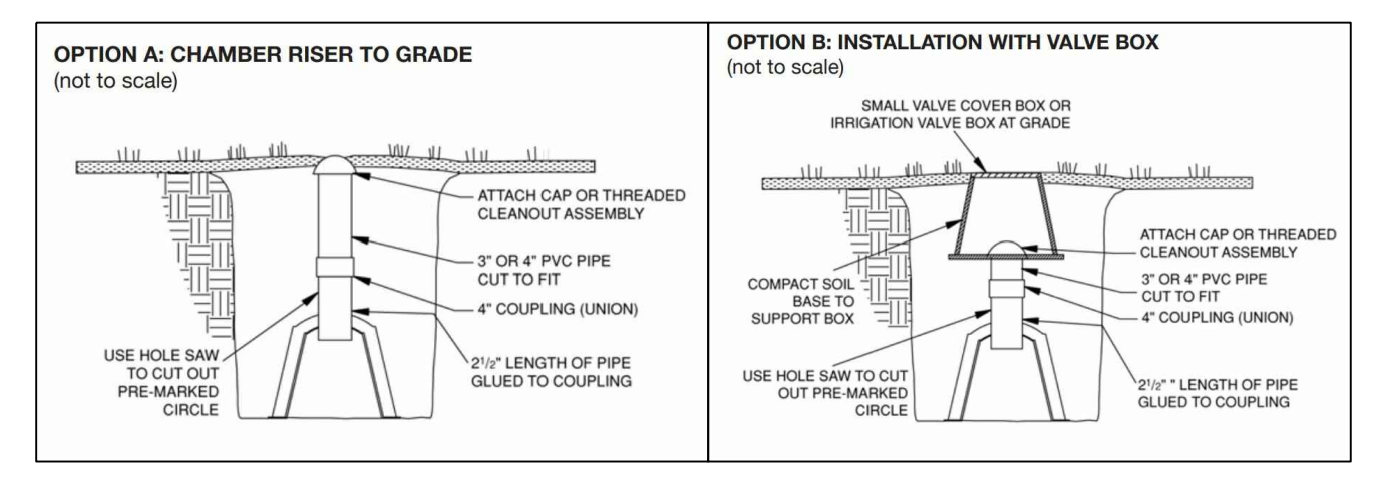
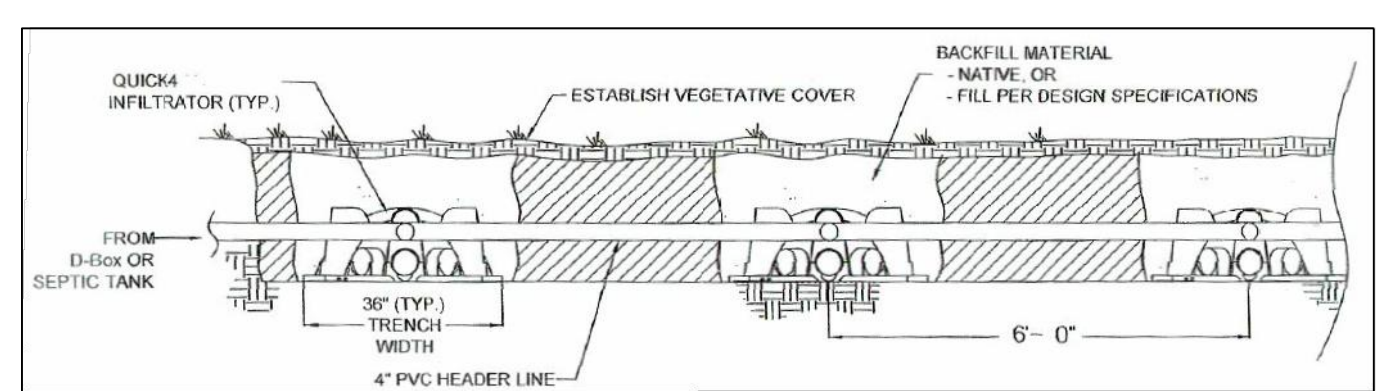
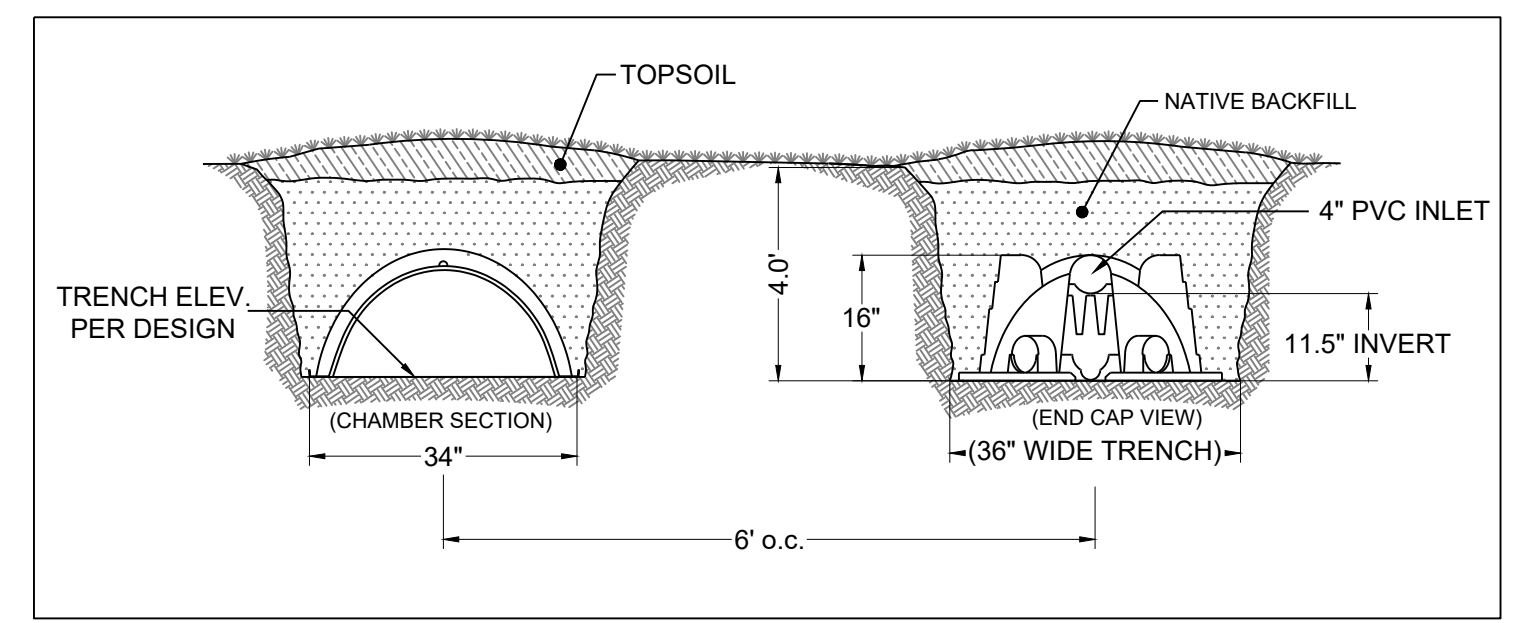
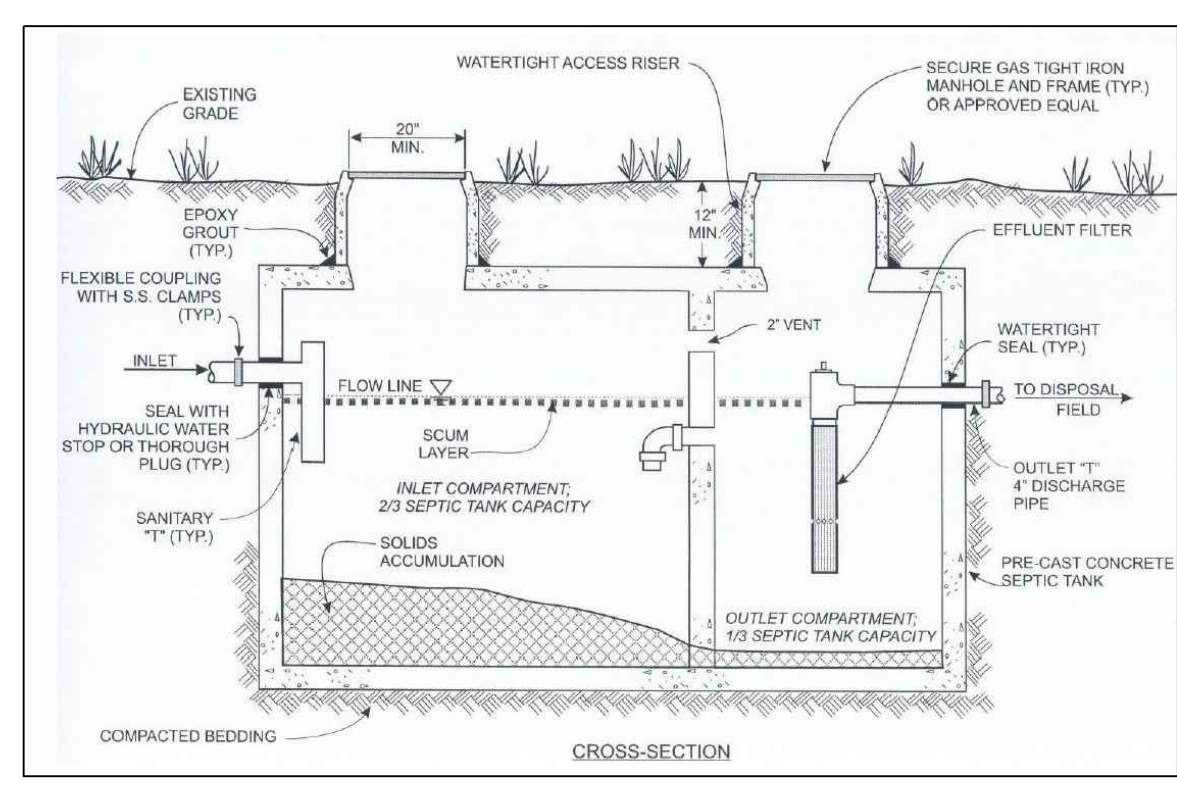
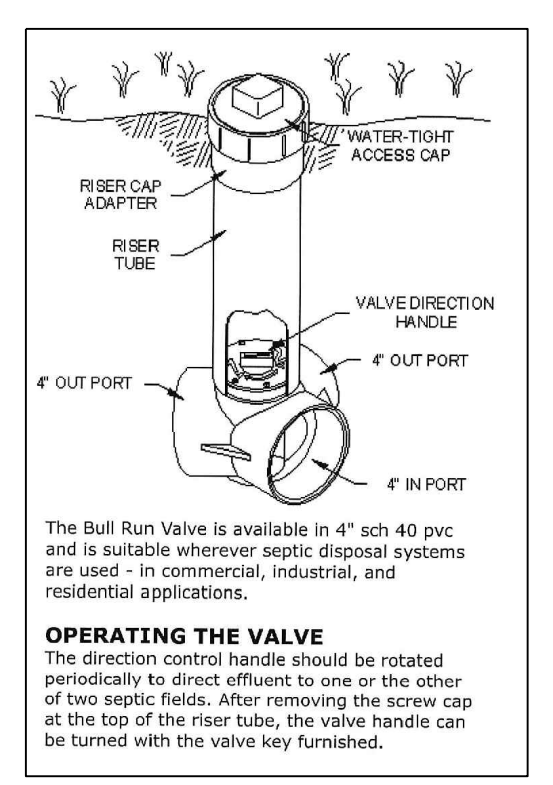
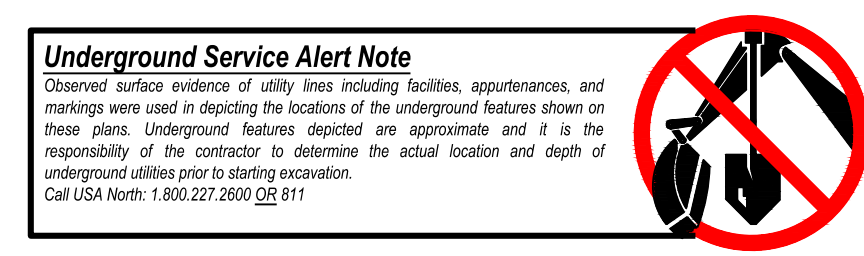
**Project Information:**  
APN: 779-13-031, 032  
Present Use: Residential  
Proposed Use: Commercial  
Present Zoning: RR-5Ac-sm  
Existing Improvements: As Shown  
Water: San Martin Water Company  
Sanitary Sewer: Proposed OWTS  
Gas & Electric: PGE  
Gross Area: 9.8 ac



- Construction Notes**
1. Install Chapin Precast "Pinnacle" septic tank Model PDI-1500 with Orenco riser adapters and effluent filter cartridge Model PL-68 on outlet.
  2. The manhole riser covers shall extend to the ground surface with bolt down lids.
  3. The septic tank must pass the water tightness test required by DEH.
  4. 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.
  5. Each outlet of the diversion valve shall connect to a 4" PVC pipe as shown.
  6. Install dual dispersal fields of 88 linear feet each side of the diversion valve as shown.
  7. Each dispersal trench shall be separated 6 feet apart measured from center to center.
  8. Install inspection port at end of each trench and cover each riser with a utility box for ease of access and protection from damage.
  9. No portion of the dispersal field shall be within 100 feet of a well.

**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.



Gera, APN 779-13-032, 12625 Monterey Road

TEST PIT LOG TP-2		TEST PIT LOG TP-1	
Depth (feet)	Description	Depth (feet)	Description
0 - 3.0	Clay, silty, with some fine-grained sand; hard, dry, light brown (CL)	0 - 2.0	Clay, silty, with some fine-grained sand; hard, dry, brown (CL)
3.0 - 5.0	Clay, stiff to hard, with some roots, dry, dark brown (CL)	2.0 - 4.5	Clay, stiff to hard, with some roots, dry, dark brown (CL)
5.0 - 7.0	Gravel, sandy, with occasional cobbles and some hard clay matrix, brown (GM-GC)	4.5 - 8.0	Gravel, sandy, grading to gravelly sand, with occasional cobbles and slight amount of clay matrix, damp, brown (GM-SM)
7.0 - 16.0	Gravel, coarse-grained, sandy, loose, some clay matrix, damp to very damp below the depth of 11.0 feet to 15.0 feet in depth, then became moist to depth of excavation, dark brown (GM)	8.0 - 16.0	Gravel, coarse-grained, sandy, loose, with scarra cobbles, increasing clay matrix, damp to very damp (but not moist) below 15.0 feet in depth continuing to bottom of excavation, dark brown (GM-GC)

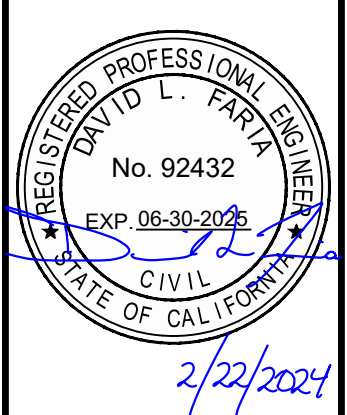
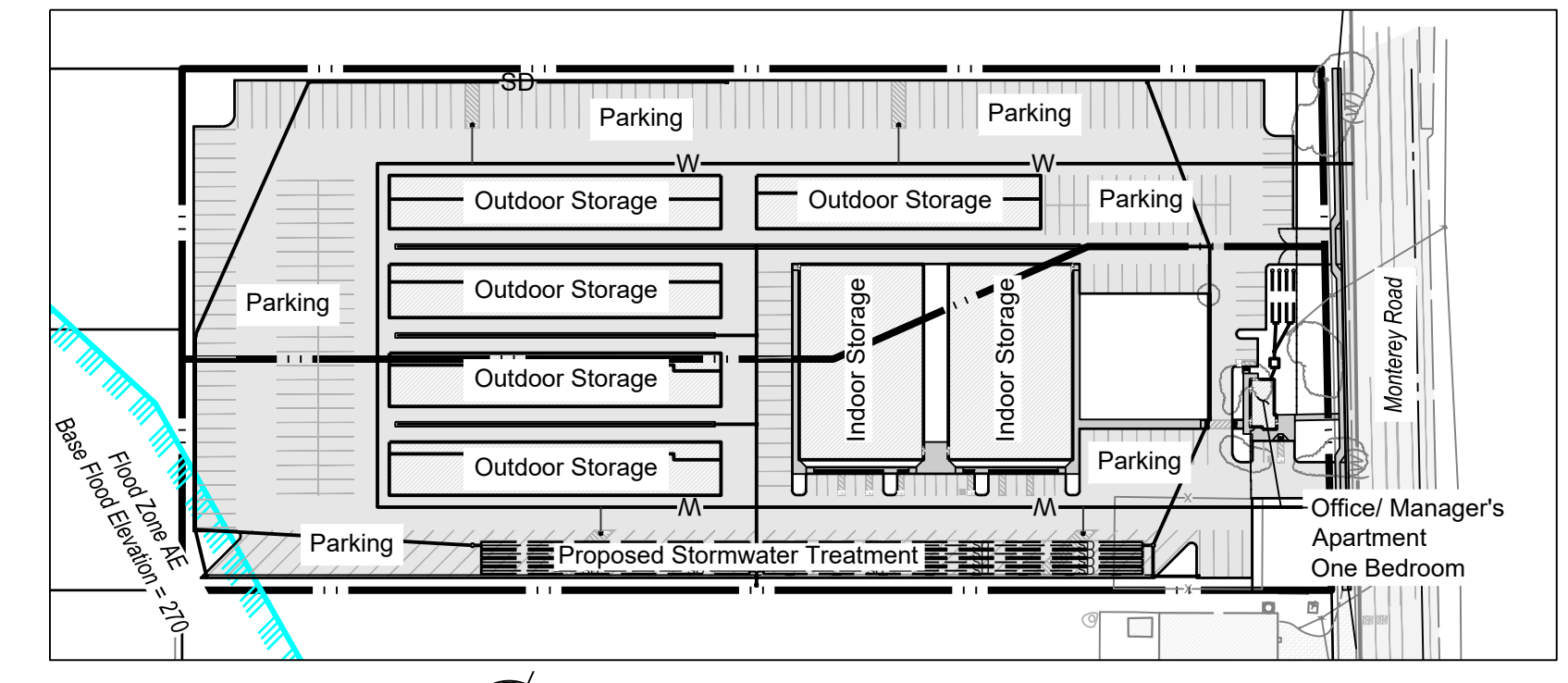
No indication of free ground water at total depth of excavation after standing open for 15 minutes

Total depth of excavation, 16.0 feet

GPS Coordinates: N37° 04' 55", W 121° 36' 33"

September 6, 2023

Project G2005-01 10/23



NO.	REVISIONS	BY
1		
2		
3		
4		
5		

**FARIA ENGINEERING & SURVEYING**  
PLANNING \* BUILDING \* SEPTIC  
david@fariaengineering.com  
602.515.7650

**OWTS Plot Plan**  
**Gera - APN 779-13-031 & 032**

DATE: 2/22/2024  
SCALE: As Shown  
DRAWN BY: DF  
CHECKED BY: DF  
JOB NO. 223020  
SHEET NO. 1 OF 1