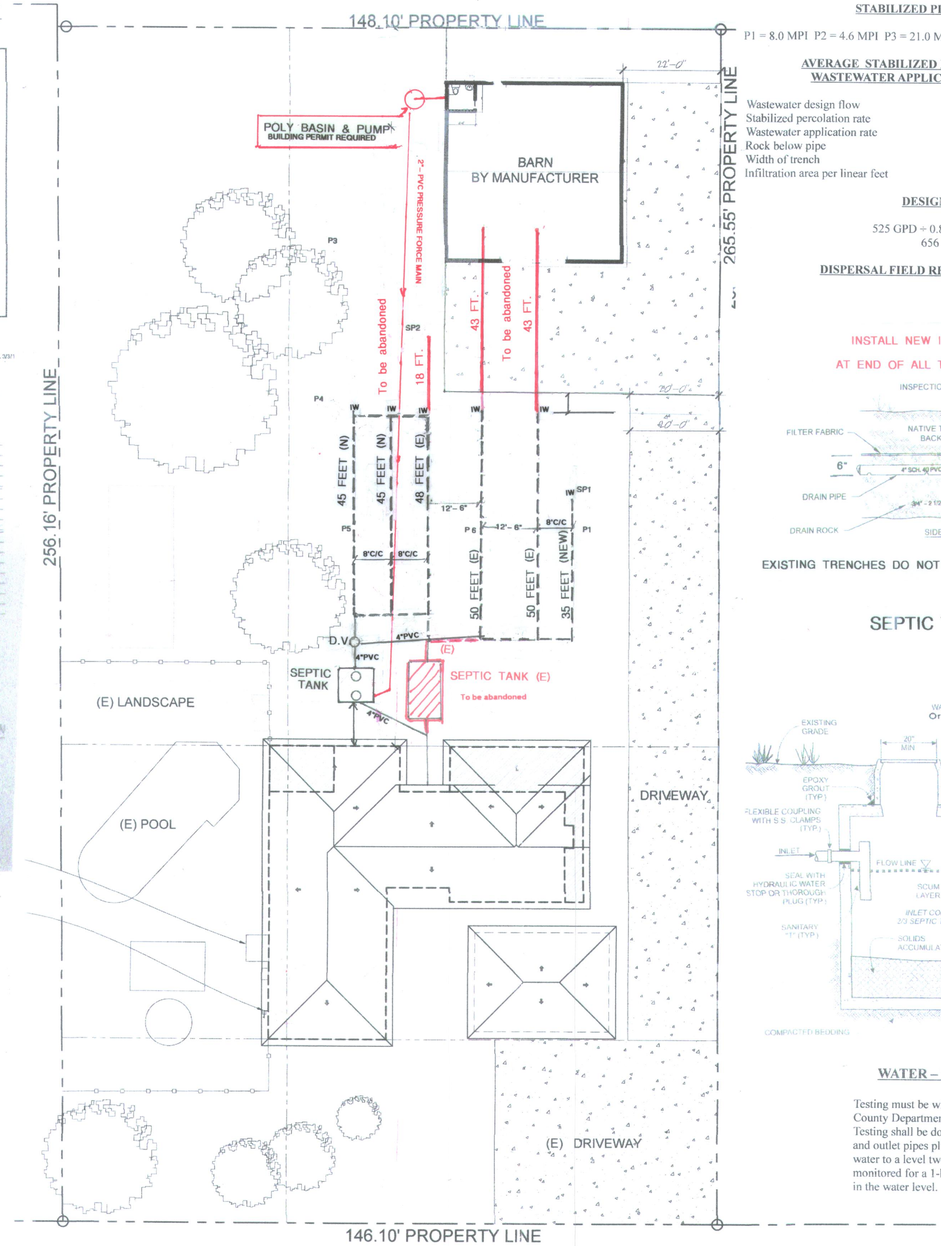
OWTS

PLOT PLAN



SOIL PROFILES

SOIL PROFILE INSPECTION RESULTS

OWNER: John R. Gilden DATE OF INSPECTION: 5/24/2022
ADDRESS: Greenbrier CITY: Morgan Hill
APN: 776-29-029 CONDUCTED BY: McAtee CHECKED BY: JeffCamp

HOLE # 1	HOLE # 2
0 ft.	
2 ft. Silty sandy loam	
2'6"- / Med brown	
4 ft.	Same as #1
6ft. Same	
7'- Orange light brown	
8 ft. Silty sandy clay	8'- Same rock/sand
Signs of rock	
10 ft. Increase sand/rock	
12 ft. Same	Same
14 ft. Increase sand gravel	
16 ft. Terminate no gw GW	Terminate - sandy gravel dry
TOP OF PIPE - 4'	30' from NE fence.
Comments:	60' from end of house
18" ROCK - TOTAL 5½'	
60-6" from 8" Pencil Rock	
4" - 8mm end of 1st trench	

SOIL PROFILE RESULTS
CONVENTIONAL SYSTEMS

SR #: 868945 DATE OF INSPECTION: 5/24/22
APN #: 776-29-029 OWNER: Gilden
APPLICANT:
SITE ADDRESS: 2149 Green Acres MH
CONDUCTED BY: Brooks Morton CHECKED BY: J Camp

HOLE #SP1: Sandy loam/Roots; 1ft Sandy clay loose; 2ft silty clay loose with gravel; 3ft Silty Sandy Clay Very loose with gravel; Terminate @ 5½' No GW observed

HOLE #SP2: Same; 1ft silty sandy clay; 2ft Same; 3ft Sandy gravel; Terminate @ 5½' No GW observed

COMMENTS:

Rev. 3/3/21

PERCOLATION TEST RECORD

County of Santa Clara – Department of Environmental Health
SOIL PERCOLATION TEST RECORDED MEASUREMENTS

OWNER/APPLICANT: John R. Gilden — SR #: — PLOT/FILE #:
LOCATION: 2149 Green Acres MH — BY: JEFF — ZONE:
CONTACT PERSON: STEVE BROOKS, REHS — PHONE: 408-202-9234 — DATE: 6-7-22
APN: 776-29-029

HOLE # 1	DEPTH: 5'-6"					HOLE # 2	DEPTH: 5'-6"				
	TIME	WATER LEVEL					TIME	WATER LEVEL			
	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	Δ MIN	Δ INCH	MPI
1	10:00	10:30	30	6.5/5	5.6	1	10:00	10:30	30	6.5/5	5.6
2	10:30	11:00	30	5.5/5	5.6	2	10:30	11:00	30	5.5/5	5.6
3	11:00	11:30	30	5.5/5	5.7	3	11:00	11:30	30	5.5/5	5.7
4	11:30	12:00	30	5.5/5	5.7	4	11:30	12:00	30	5.5/5	5.7
			AVG	30	5.7				AVG	30	5.7

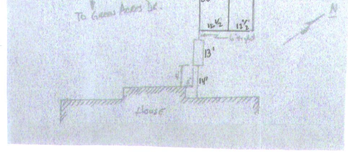
HOLE # 3	DEPTH: 5'-6"					HOLE # 4	DEPTH: 5'-6"				
	TIME	WATER LEVEL					TIME	WATER LEVEL			
	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	Δ MIN	Δ INCH	MPI
1	10:00	10:30	30	6.0/5	5.0	1	10:00	10:30	30	6.0/5	5.0
2	10:30	11:00	30	5.0/5	5.0	2	10:30	11:00	30	5.0/5	5.0
3	11:00	11:30	30	5.0/5	5.0	3	11:00	11:30	30	5.0/5	5.0
4	11:30	12:00	30	5.0/5	5.0	4	11:30	12:00	30	5.0/5	5.0
			AVG	30	5.0				AVG	30	5.0

HOLE # 5	DEPTH: 5'-6"					HOLE # 6	DEPTH: 5'-6"				
	TIME	WATER LEVEL					TIME	WATER LEVEL			
	START	FINISH	Δ MIN	Δ INCH	MPI		START	FINISH	Δ MIN	Δ INCH	MPI
1	10:00	10:30	30	6.0/5	5.0	1	10:00	10:30	30	6.0/5	5.0
2	10:30	11:00	30	5.0/5	5.0	2	10:30	11:00	30	5.0/5	5.0
3	11:00	11:30	30	5.0/5	5.0	3	11:00	11:30	30	5.0/5	5.0
4	11:30	12:00	30	5.0/5	5.0	4	11:30	12:00	30	5.0/5	5.0
			AVG	30	5.0				AVG	30	5.0

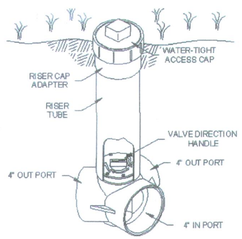
HOLE	1	2	3	4	5	6
Stabilized MPI	5.7	5.6	5.0	5.7	5.7	5.7
Adjusted Stabilized MPI	5.0	4.9	4.4	5.0	5.0	5.0
Areville Adjusted Stabilized MPI	10					
# Bedrooms:	FOR OFFICE USE ONLY	Tank Size (Gal)		Leach line (Ft)		

OWTS "AS-BUILT" PERMIT 26949

PERMIT NUMBER 26949 ISSUED 12/7/77 FEE $5.20
OWNER MORGAN HILL — INSPECTED BY HILT - CONTRACTOR
FROM NORGAN CAVE C. CHURCH STREET
PHONE — STATE — PHONE
Date — Description — Inspection Record No. 26949
R.P. Size — Depth Required — Feet
R.P. Location — Feet
Completed By — Approved



BULL RUN DIVERSION 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.

OPERATING THE VALVE
The direction control handle 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.

SEPTIC TANK ABANDONMENT PROCESS

1. A permit for the septic tank abandonment of the must be obtain from Environmental Health Services or local Building Department.
2. Work shall be performed by a Licensed Septic Tank Contractor or Pumper.
3. The septic tank may be completely removed or properly abandoned in place.
4. The abandonment (destruction) process of the septic tank must be verified by Environmental Health staff.
   The following procedure shall be used when tank is to be abandon in place:
   - Both chambers of the septic tank must be pumped by a licensed pumping company.
   - During pumping the sidewalls must be rinsed with water.
   - After pumping the bottom of the tank must be broken-up or perforated to allow the bottom to drain.
   - The top of the tank may be kept in place or broken up as an option.
   - The tank must be filled in with sand, native soil, or other approve material and must be compacted as appropriate.

SIZING CALCULATIONS

GILDEN
FOUR (4) BEDROOMS

STABILIZED PERCOLATION RATES

P1 = 8.0 MPI P2 = 4.6 MPI P3 = 21.0 MPI P4 = 10.2 MPI P5 = 9.4 MPI P6 = 9.4 MPI

AVERAGE STABILIZED PERCOLATION RATE = 10 MPI
WASTEWATER APPLICAION RATE = 0.80 GPD/SQFT

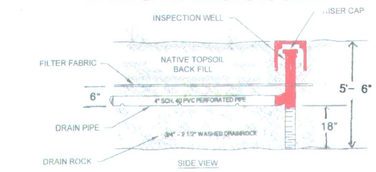
Wastewater design flow	= 525 GPD
Stabilized percolation rate	= 10 MPI
Wastewater application rate	= 080 GPD/SQFT
Rock below pipe	= 18 INCHES (Existing)
Width of trench	+ 24 INCHES (Existing)
Infiltration area per linear feet	= 5

DESIGN CALCULATIONS

525 GPD ÷ 0.80 GPD/SQFT = 656
656 ÷ 5 = 131

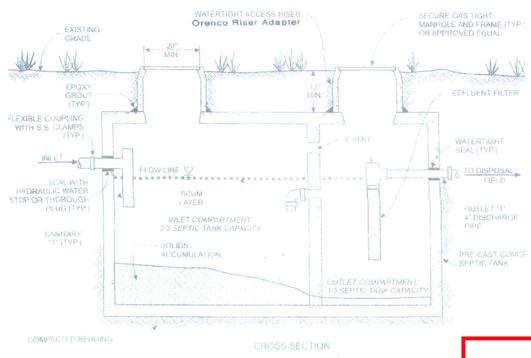
DISPERSAL FIELD REQUIRED = 131 LF + 131 LF

INSTALL NEW INSPECTION WELL
AT END OF ALL TRENCHES AS SHOWN



EXISTING TRENCHES DO NOT HAVE INSPECTION WELL RISERS

SEPTIC TANK DETAIL



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 two (2) inches into the risers, and monitored for a 1-hour period , with no measurable drop in the water level.

CONSTRUCTION NOTES

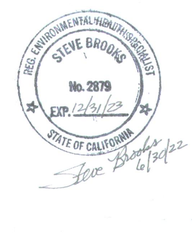
GILDEN

SCOPE OF PROJECT: To abandon the existing 1200 gallon septic tank and portions of existing dispersal field and add additional length of dispersal tench required to meet current regulations. Areas illustrated in Red are portions of existing septic system to be removed and/or abandoned. Three (3) of the existing dispersal trenches remain modified and three (3) new trenches to be added.

1. Disconnect the existing septic tank and abandon the tank as required by County EHS. (see Septic Tank abandonment process)
2. Install a new 1500 gallon watertight 1500- gallon Chapin Pre-Cast Pinnacle septic tank as shown. Special order for side inlet for 2 inch sewage pump dischage pipe.
3. Septic tank must pass the reuqired watertightness test. (see requirements)
4. Install a Bull Run Diversion Valve within 6 feet of the septic tank.
5. Connect each outlet of the diversion valve to the dispersal trenches as shown.
6. Remove all rock and pipe from portions of existing dispersal field shown in RED and back fill with Bentonite or equal impermeable clay soils for first 10 from end of existing trench..
7. Install a new dispersal field trenches as shown
8. An Inspection Well shall be install at the end of each trench. The Inspection well shall be capped and covered by an irrigation box to avoid damage. (See detail)

ADDITIONAL CONSTRUCTION REQUIRING A PERMIT FROM THE BUILDING DEPARTMENT

9. Install a 50-gallon Polyethylene Basin and Sewage Pump with steel cover (2" discharge, 2 " vent an 4' inlet gasket within 10 feet of the proposed workshop.
10. Install a Barnes Submersaible SE411 or Liberty LE41 wastewater pump and motor with a 2-inch discharge and float switch witin the basin.
11. Connect the 2" discharge pipe to a 2 inch PVC pipe to be connected to the existing 4 inch sewer pipe entering side inlet the newly installed septic tank. The 2 -inch discharge pipe can be instlled within same trench as the new 67 feet dispersal trench. Strap a metal tracer wire to the pipe for ease of location.
12. Install a Tank Alert EZ Alarm system pump and basin and mount the control panel outside the workshop where easily visible



Steve Brooks 6/30/22

SEWAGE SYSTEM REVIEW

SANTA CLARA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
Project Description SR No. SR0868945

Minor building addition (4 bedrooms max) and new accessory structure with 1/2 bath

APPROVAL RECOMMENDED

X With existing System (Existing No. 26949)
X Install/modify system per plan (describe below)
[Obtain a permit from Environmental Health]

Abandon (e) 1200gal tank. Abandon (e) leachfield withibn 10 feet of new strucutre and driveway. Install new 1500gal tank w/D-vavle and leachfilled to mainatin a minimum 131'+131' leach field

R.E.H.S. Jeff Camp Date 07/26/2022

Not A Sewage System Permit. *Plan is void if absent signature.*

STEVE BROOKS, CONSULTING
200 GREENBRIER DRIVE
APTOS, CA. 95003
O 831-688-4391 M 408-202-9234

SCALE: 1/16"=1'-0"

1 SITE PLAN

REVISIONS

MARK NEIL BAYOG
408.705.7322
mbayog2480@gmail.com

AGENCY STAMP

ADDITION
2149 GREEN ACRES LANE
MORGAN HILL, CA 95037
APN : 776 – 29 – 029

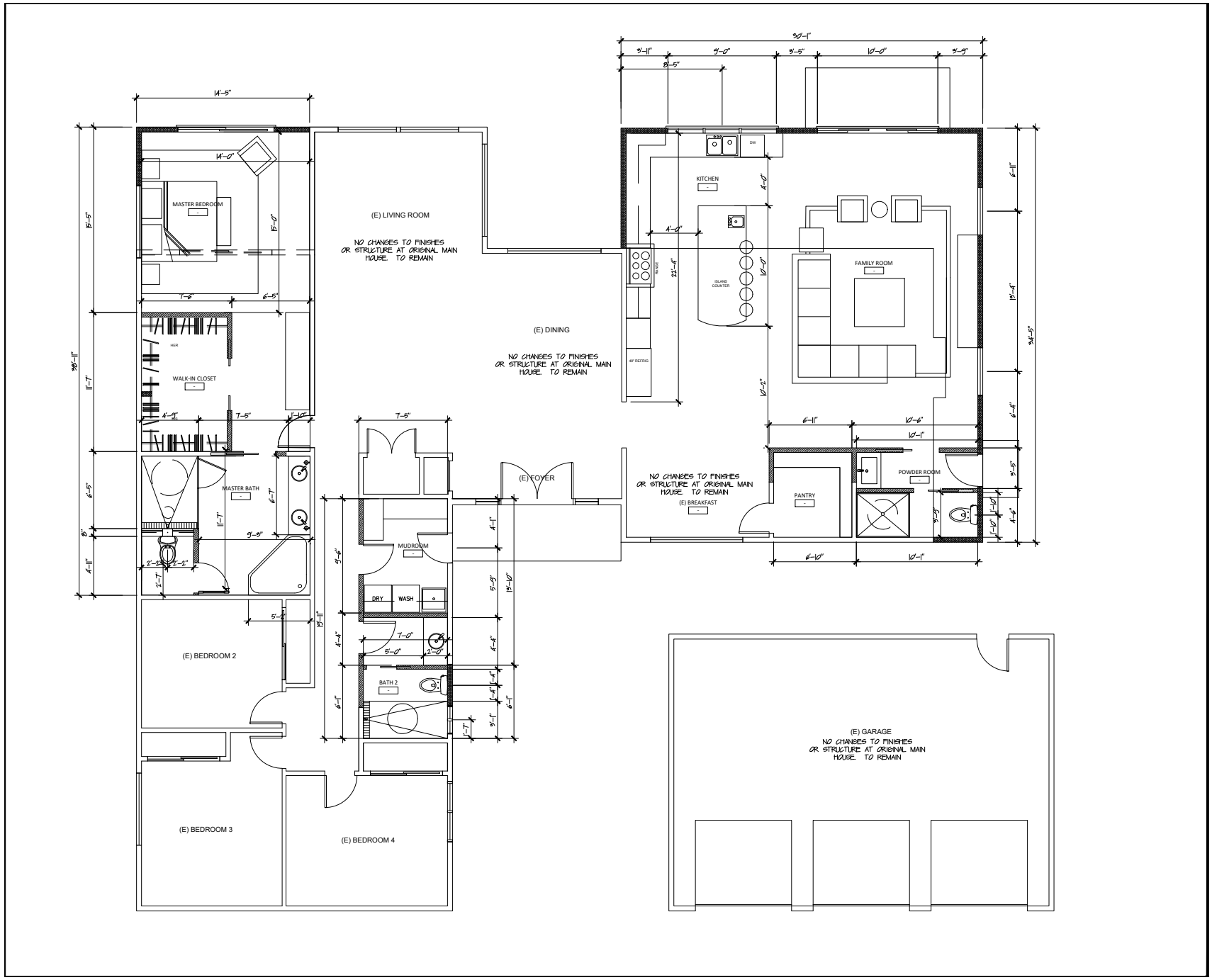
OWNER: JOHN R. GILDEN

SITE PLAN

FILE NO. -

AGENCY STAMP

Date -
Scale AS NOTED
Drawn MSB Check
Job -
Sheet A-2.0



REVISIONS

MARK NEIL BAYOG
408.705.7322
mbayog248@gmail.com

AGENCY STAMP

2149 GREEN ACRES LANE
MORGAN HILL, CA 95037
APN :

FILE NO. -

Date -
Scale
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Check
Job -
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REVIEWED
By Jeff Camp at 11:39 am, Jul 26, 2022