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Humboldt County
Department of
Health & Human
Services

MAR 03 2025

HUMBOLDT CO. DIVISION
OF ENVIRONMENTAL HEALTH

Division of Environmental Health

100 H Street - Suite 100 - Eureka, CA 95501

Phone: 707-445-6215 - Toll Free: 800-963-9241

Fax: 707-441-5699

envhealth@co.humboldt.ca.us

EH-SEPTA-25-000023

EH-Sept-25-000027

ONSITE WASTEWATER TREATMENT SYSTEM (OWTS) PERMIT APPLICATION NEW CONSTRUCTION/MODIFICATION

Application is hereby made to the Humboldt County Department of Health & Human Services, Division of Environmental Health (DEH) for a permit to construct or modify an onsite wastewater treatment system as specified below in compliance with all county ordinances and state law regulating construction of OWTS.		Permit Type: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Modification <input type="checkbox"/> Permit Renewal
Applicant Name: Scott Davies	Owner's Name: Stenborg - Davies Jonathan W Suctr	
Mailing Address: 2242 Fickle Hill Rd, Arcata, CA 95521	Mailing Address: 2242 Fickle Hill Rd, Arcata, CA 95521	
Phone Number:	Phone Number:	
Email: scottdaviesarcata@gmail.com	Email:	
Parcel Number: 500-011-024	System will serve:	
Site Address: Street 2242 Fickle Hill Rd	<input type="checkbox"/> Residence: No. of Bedrooms: _____ <input checked="" type="checkbox"/> Commercial: Design Flow: 150 Guests @ 5 gpd = 750 gpd	
City & Zip: Arcata, CA 95521	<input type="checkbox"/> Multiple Housing: No. of Units: _____ Br / Unit: _____ <input type="checkbox"/> Mobile Home Park/Campground: Design Flow: _____	
Directions to Site: US-101 north, exit Samoa Blvd. to Sunny Brae, left Union St., right Bayside Rd., left Fickle Hill Rd., site driveway on left	Water Supply: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private	
<input type="checkbox"/> Standard System <input checked="" type="checkbox"/> Non-Standard System** **Please note that non-standard systems require an operating permit pursuant to HCC Title VI, Division I, Chapter 6. The owner/operator will be subject to permit fees and inspections.		
Terms of Permit 1. DEH personnel will be notified a minimum of 48 hours prior to final inspection. Please note that some systems may require several inspections. Should situations arise that prohibit a final inspection at the appointed time, the applicant or the applicant's agent shall notify DEH and reschedule the appointment. Failure to do so may result in additional charges to the applicant at the current hourly rate. 2. An inspection by DEH personnel, or other Qualified Professional approved by DEH, will be obtained prior to covering the system. 3. An inspection will not be performed unless a copy of the DEH-approved OWTS design is available at the job site. 4. Any deviation from the approved plan without prior approval from DEH may result in revocation of this permit. 5. This permit shall expire if work authorized is not completed prior to 1 year from the Building Permit Issuance Date . The issuance of a permit in no way implies a DEH guarantee of perfect and indefinite operation of this OWTS. Field conditions that vary significantly from the description provided with the application may void this permit.		
The undersigned applicant of the permit certifies as follows: Contractors' License Law Certification <input type="checkbox"/> The applicant's contractor is licensed under the provisions of the Contractors' License Law, under the license number below, which is in full effect. OR <input type="checkbox"/> The applicant is exempt from the provisions of the Contractor's License Law (owner/builder)		To Be Completed by Building Department Building Permit No.: _____ Issuance Date: _____
I hereby acknowledge that I have read this application and that the information provided is correct. I agree to comply with all County Ordinances and State Law regulating construction of onsite wastewater treatment systems.		
Signature of Owner / Owner's Authorized Agent: <u>R Scott Davies</u>		Date: <u>2-25-25</u>

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FOR OFFICE USE ONLY				
Septic Tank Size: 1500	Pump Chamber Size: 1200	No. of Lines: 5	Line Length: 58'	Trench Depth: 18"
Approved Bedroom Count: N/A		Approved Design Flow: 750 gpd		
Special Requirements and/or Comments:				
System Design Approved by: a molofsky		Date: 3/7/25	Reviewed By: J. Whitting	Date: 3/7/25
Construction Approved by:			Date:	
Application Fee Assigned: \$2091.00 assigned			PE Code: 2709	

**** WHEN FULLY APPROVED, THIS APPLICATION WILL BE THE PERMIT ****

OWTS PERMIT APPLICATION CHECKLIST

☐ Site Plan showing:

- Locations of tanks, piping, and primary and reserve disposal fields
- Any existing onsite wastewater treatment system(s) or components
- Distances to wells, water bodies, property lines, steep slopes, foundations, and drainages
- Any and all structures served by the system
- Ground slope or contour in the area of work

☐ Design Report:

- Detailed dimensioned layout of disposal field and trench cross-section
- Soil textural analysis and percolation testing
- Groundwater monitoring well readings (if applicable)
- Soil profiles for the primary and reserve disposal field locations
- System sizing and design calculations, stamped by a qualified professional



Division of Environmental Health

100 H Street - Suite 100 - Eureka, CA 95501

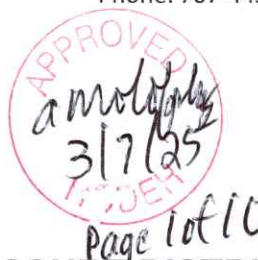
Phone: 707-445-6215 - Toll Free: 800-963-9241

Fax: 707-441-5699

envhealth@co.humboldt.ca.us

Name: Davies

AP#500-011-024



INSPECTION REQUIREMENTS FOR LOW PRESSURE DISTRIBUTION SYSTEM

The installer shall contact Division of Environmental Health (DEH) personnel to arrange for inspection of the following system components, prior to backfilling or covering the system. **A copy of the DEH approved sewage disposal system (SDS) plans must be maintained on site during construction.**

	OK (initial & date)	Comments
Appropriate fall on building sewer line to septic tank		
Building sewer, effluent sewer and absorption field piping of approved size and materials with watertight joints		
Cleanouts installed in building sewer line, as necessary		
**Septic Tank and Pump Tank Watertight, Level, and on Competent Bases		
Sanitary tees & effluent filter installed properly		
Watertight risers installed over tank with locking lids to finished grade		
Position & length of pump and alarm floats; proper wiring to control panel. Pump on concrete pedestal.		
Leach Field location as per plan		
Trenches installed parallel to natural ground contour		
Depth of gravel inside trenches, with level trench bottoms		
Valves & cleanouts installed on laterals, inside irrigation cans		
Orifice size/spacing correct		
Approved pump control panel with dose/hour counter.		Panel Location:
High water alarm functional		Audible/Light
Squirt Test(minimum 3-5 feet)		
Good quality topsoil cover		
Other		



Name: Davies AP#: 500-011-024

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Page 3 of 10

SPECIFICATIONS FOR A LOW PRESSURE DISTRIBUTION SEWAGE TREATMENT SYSTEM

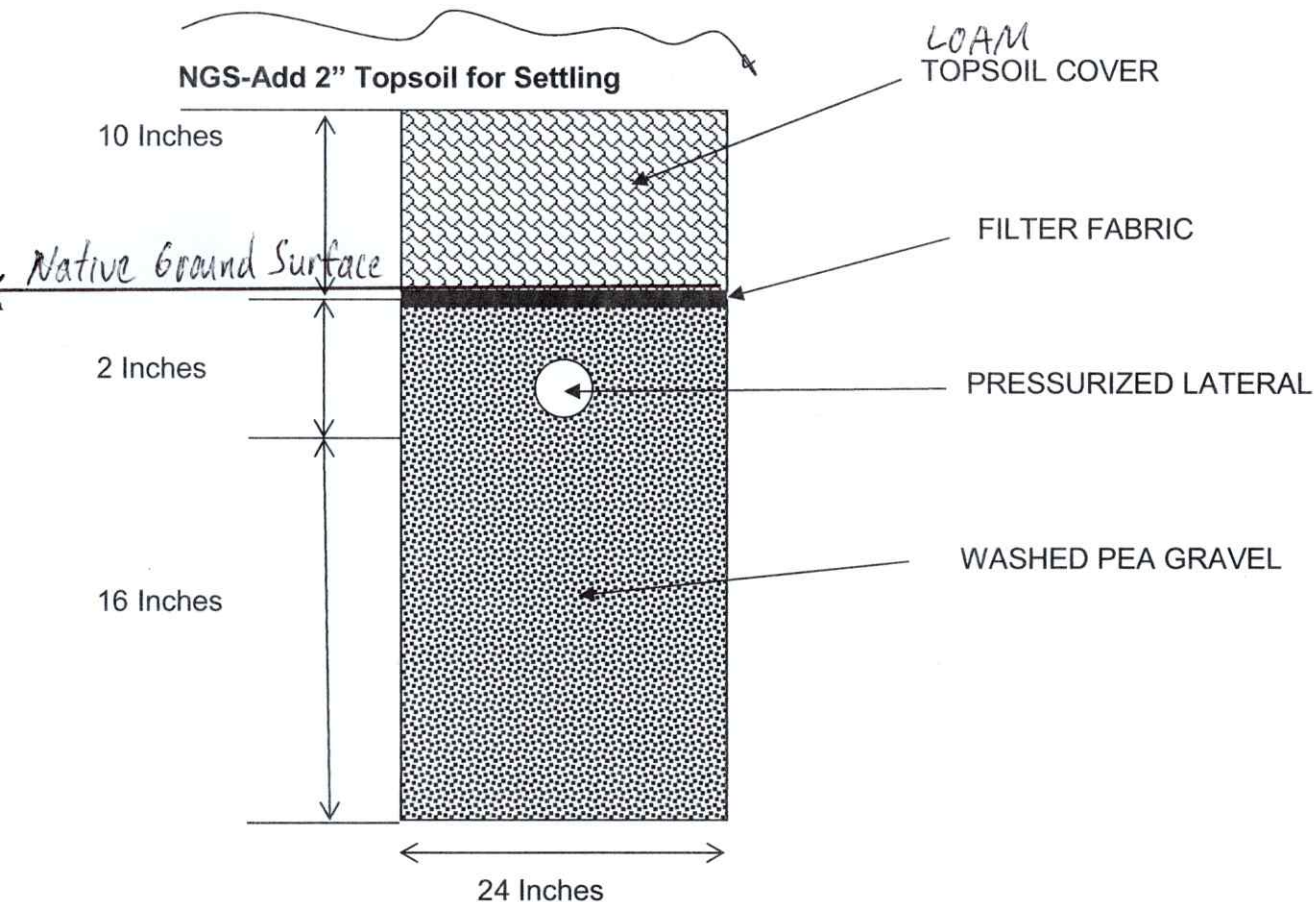
1. The disposal field shall be installed in the area indicated on the HCDEH approved site plan.
2. The disposal field shall consist of **5** trenches.
Trench length = **58'**
Trench depth = **18"**
Trench width = **2'**
Separation between laterals = **5'**
TRENCH BOTTOMS MUST BE LEVEL.
3. Force main shall be of 2-inch schedule 40 PVC in compact native soils at a depth of 12 inches.
4. Pressurized laterals shall be of 1 1/4 inch schedule 40 PVC with 5/32 inch diameter clean holes facing down, spaced **5** feet apart. Laterals shall be set level on pea gravel.
5. Dose volume = 150 gallons. The effluent pump shall be sized to achieve a 3-foot minimum discharge head throughout the pressurized laterals.
6. Ball valves shall be placed at the head of each lateral.
7. Tanks must be IAPMO approved.
Septic Tank = 1500 gallons
Pump Chamber = 1200 gallons
**** Both septic tank and pump chamber shall be tested for water tightness.**
8. An effluent filter shall be placed on the outlet side of the septic tank.
9. Install watertight risers with locking lids above the manholes of both tanks



Name: Davies AP#: 500-011-024

10. Install an approved control panel with a dose counter & elapsed time meter.
11. Licensed contractor shall perform all work in accordance with the Uniform Building Code (UBC), Uniform Plumbing Code (UPC), National Electric Code (NEC), and all other State and County regulations.

TRENCH CROSS SECTION



TRENCHES SHALL BE INSTALLED
ON NATURAL GROUND CONTOUR.
TRENCH BOTTOMS MUST BE LEVEL.

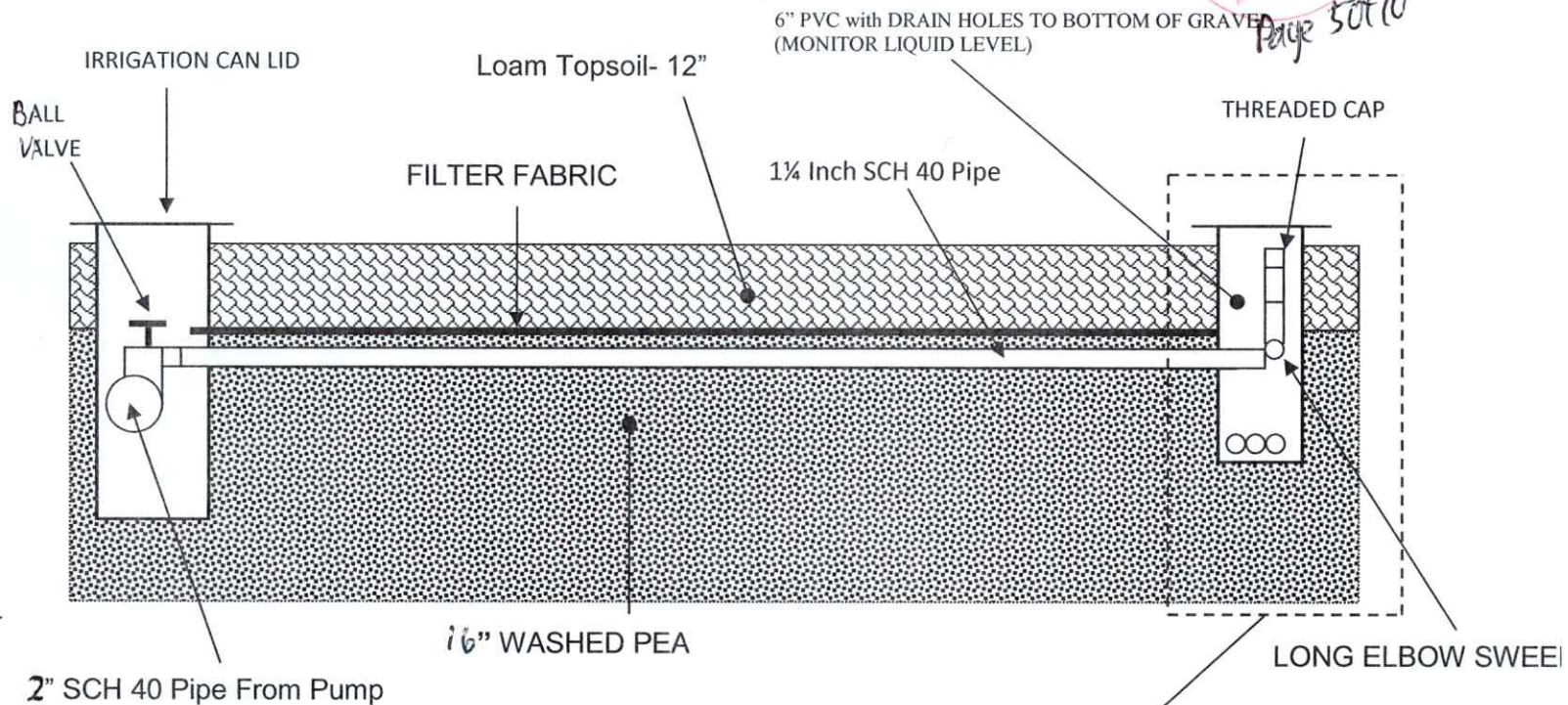


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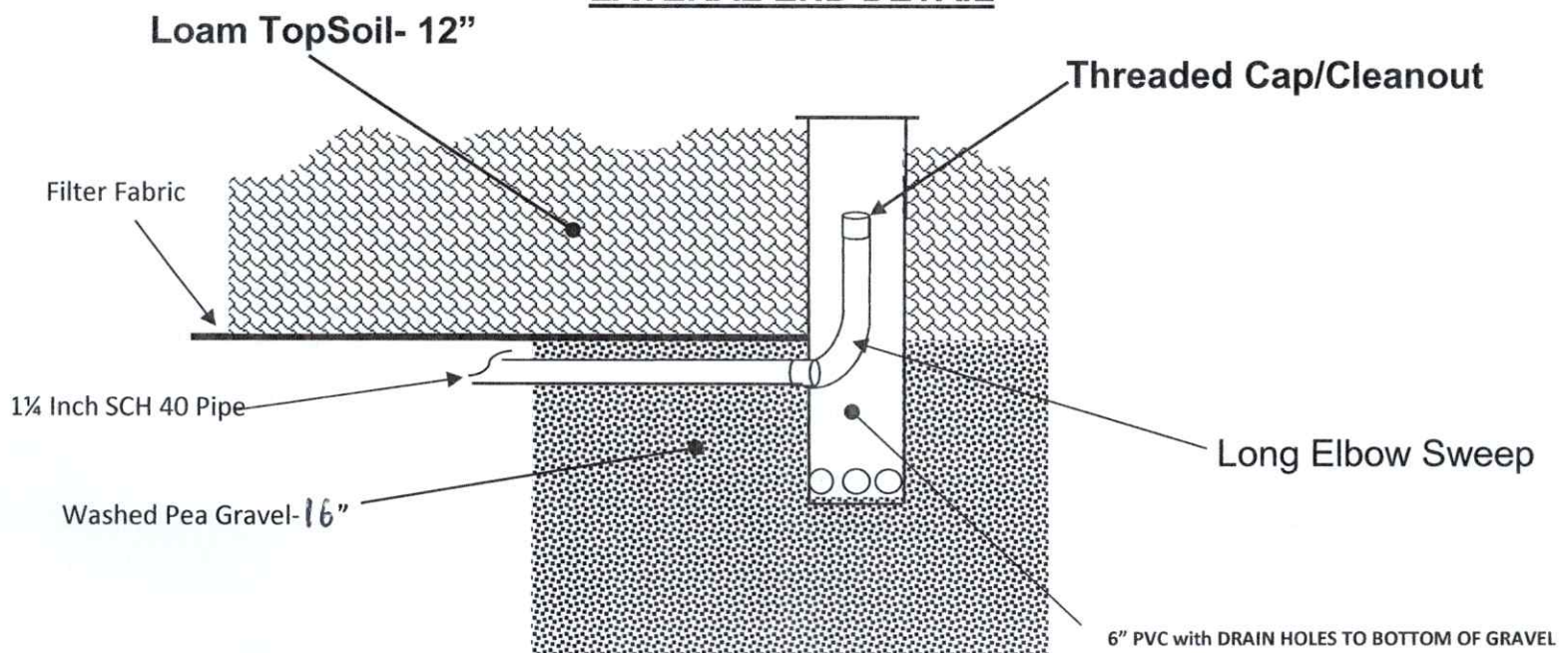
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Page 5 of 10

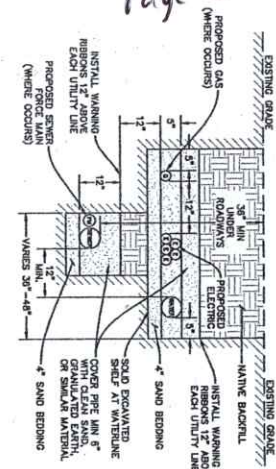
TRENCH DETAIL



LATERAL END DETAIL



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Page 6 of 10

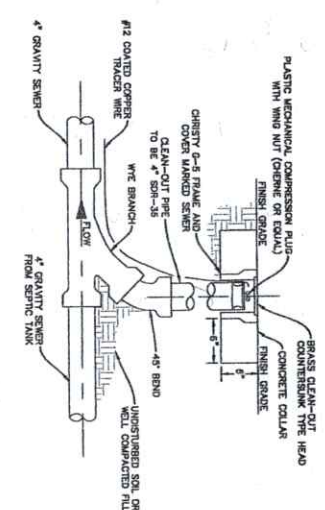


NOTES:

- TRENCH DEPTH VARIES DEPENDING ON THE OCCUPANT'S FACILITY
- STATE, COUNTY, AND LOCAL REGULATIONS MUST BE MET REGARDING ANY APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS
- SEWAGE TREATMENT PLANT MUST BE SEPARATION AND CLEARANCE DIMENSIONS SHOWN BELOW

TABLE 2-1 MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS FOR TRENCHES

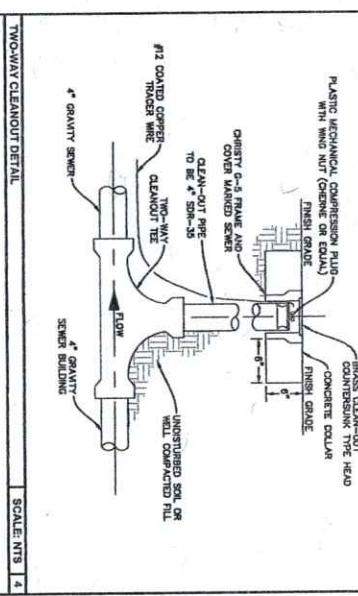
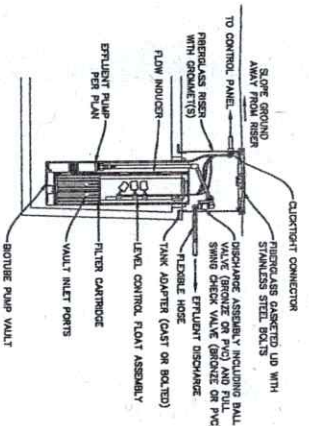
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TYPICAL TRENCH DETAIL SCALE: NTS 1/8

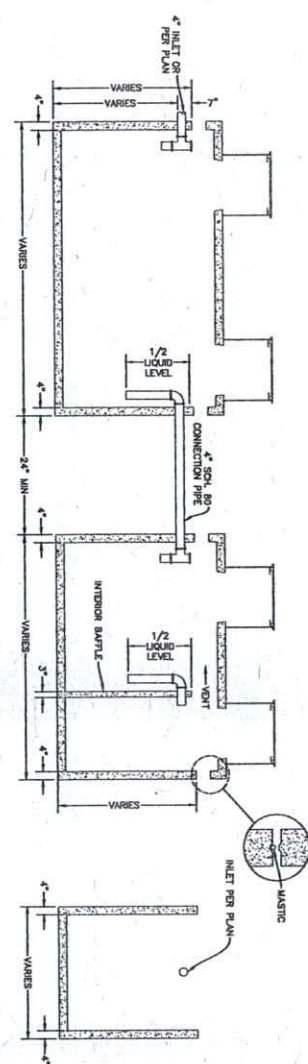
ONE-WAY CLEANOUT DETAIL SCALE: NTS 1/8

- SEPTIC TANK NOTES:
- SEPTIC TANKS MUST BE APPROVED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL CONTRACTORS (IAPMO) OR STAFFED AND CERTIFIED BY A QUALIFIED REGISTERED CIVIL ENGINEER.
 - SEPTIC TANKS MUST HAVE A NATIONAL SANITATION FOUNDATION/AMERICAN NATIONAL STANDARD (NSF) TEST REPORT OR STAFFED AND CERTIFIED BY A QUALIFIED REGISTERED CIVIL ENGINEER.
 - SEPTIC TANKS SHALL BE WATER AND OIL TIGHT.
 - SEPTIC TANK EXCAVATION SHALL PROVIDE A LEVEL, UNIFORM LOAD BEARING SURFACE FREE OF HAZARDOUS MATERIALS AND DEBRIS. THE EXCAVATION SHALL BE PROTECTED BY A SLOPE OR SHIELDING TO PREVENT COLLAPSE AND SHALL BE PROTECTED BY A SLOPE OR SHIELDING TO PREVENT COLLAPSE AND SHALL BE PROTECTED BY A SLOPE OR SHIELDING TO PREVENT COLLAPSE.
 - SEPTIC TANKS SHALL BE MADE OF NON-BOILING MATERIAL, FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS OR OTHER METHODS APPROVED BY HUMBOLDT COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
 - TANK DIMENSIONS MAY VARY BY MANUFACTURER.
 - TANKS MUST MEET HUMBOLDT COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH) REGULATIONS.
 - CONTRACTOR TO SUBMIT TANK MANUFACTURER SPECIFICATIONS TO ENGINEER.



TYPICAL TRENCH DETAIL SCALE: NTS 1/8

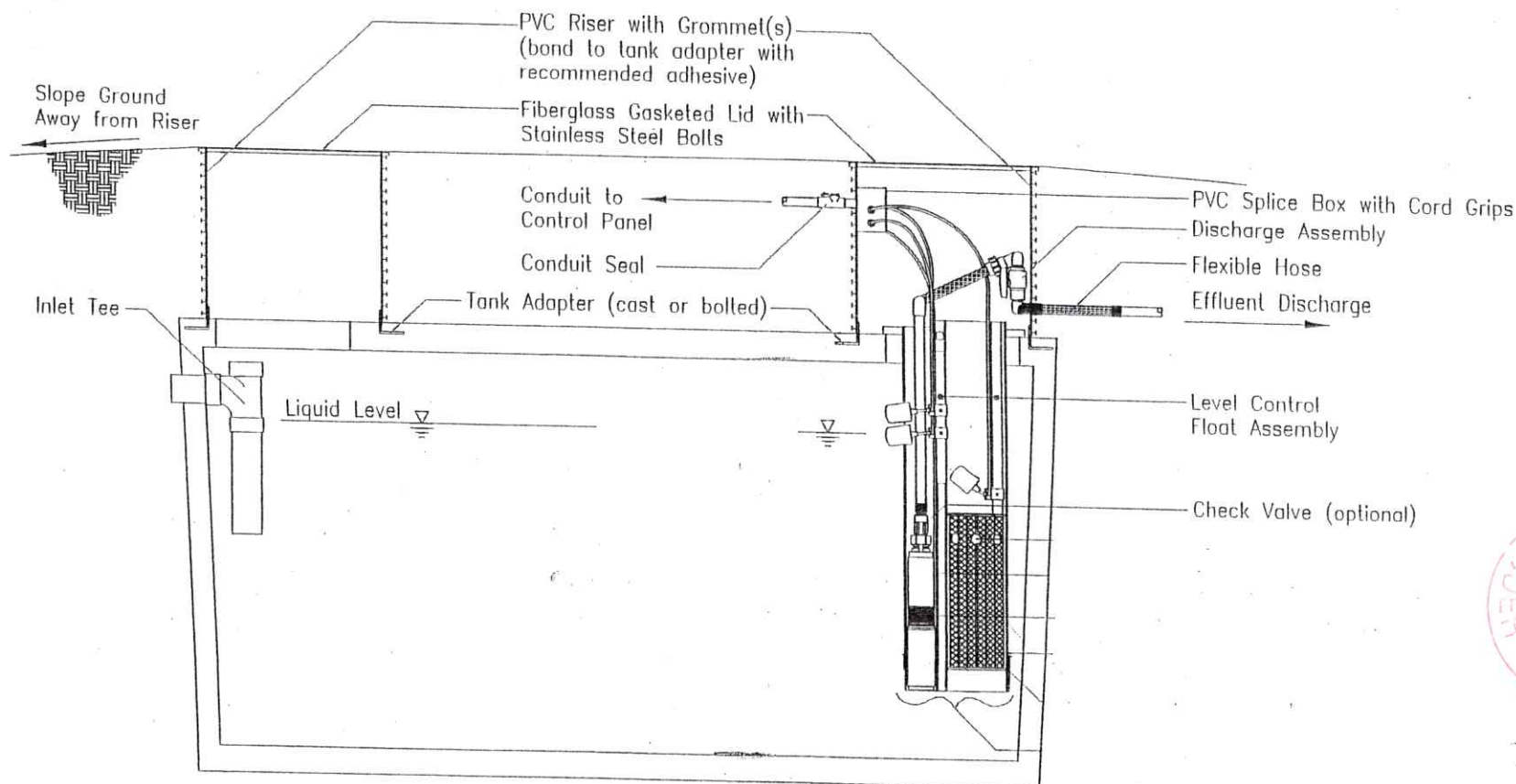
TWO-WAY CLEANOUT DETAIL SCALE: NTS 1/8



SEPTIC TANK AND PUMP TUBE DETAIL SCALE: NTS 1/8

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Page 8 of 10

Effluent Pumping System



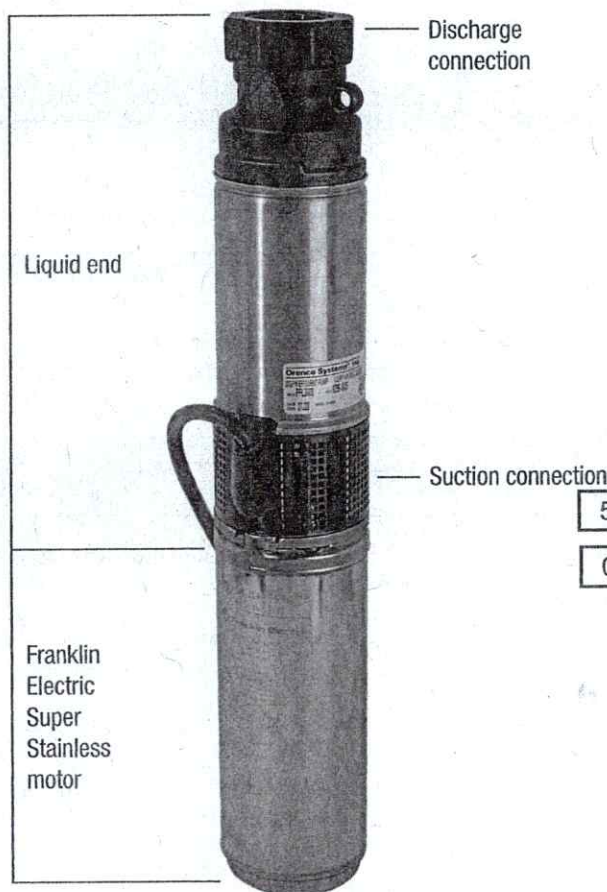
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PF-Series 60Hz, 1-Phase Effluent Pumps

Applications

Orenco's PF-Series 60Hz, 1-phase, 4in (100mm) Submersible Effluent Pumps are designed to transport screened effluent with low TSS counts from septic or dosing tanks. These pumps are engineered using lightweight, corrosion-resistant stainless steel and polymers, and are field serviceable and repairable with common tools. They're also CSA and UL certified to US and Canadian safety standards for effluent pumps.

PF-Series pumps are used in a variety of applications, including pressurized drainfields, packed-bed filters, mounds, aerobic units, effluent irrigation, liquid-only (effluent) sewers, wetlands, lagoons, and more. These pumps are designed to be used with a Biotube® pump vault or after a secondary treatment system.



Powered by
Franklin Electric

General

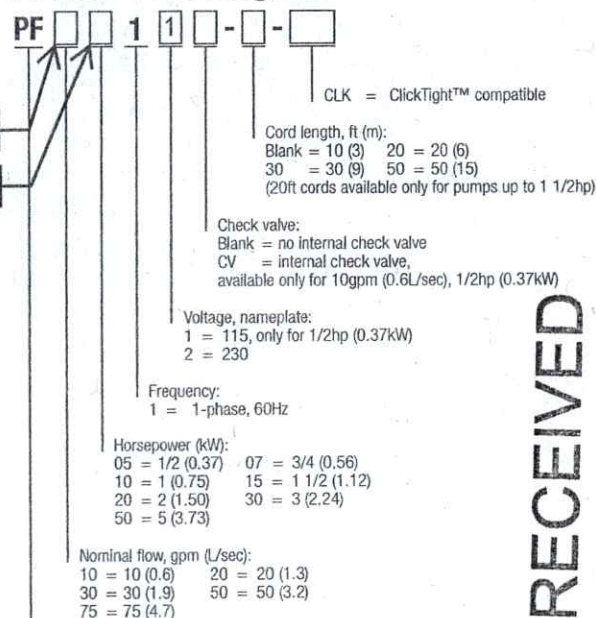
To specify this pump for your installation, require the following:

- Minimum 24-hour run-dry capability (liquid end) with no decline in pump life or performance; not applicable for 5hp (3.73kW) models
- 1/8in (3mm) bypass orifice to ensure flow recirculation for motor cooling and to prevent air binding
- 1/8in (3mm) mesh intake screen to limit solids
- Liquid-end repair kit availability for lower long-term cost to own
- Franklin Electric TRI-SEAL™ floating impeller design on 10, 20, and 30gpm (0.6, 1.3, and 1.9L/sec) models; floating stack design on 50 and 75gpm (3.2 and 4.7L/sec) models
- Franklin Electric Super Stainless motors are rated for continuous use and frequent cycling, with surge arrestors, hermetically sealed motor housing for moisture-free windings, and Kingsbury-type thrust bearing for thrust absorption
- Thermal overload protection trips at 203-221°F (95-105°C) for 1-phase motors through 1.5hp (1.12kW)
- Type SOOW 600V motor cable (model PF751512 uses 14 AWG, SJ00W, 300V cord)

Standard Models

See Specifications (on page 2) for a list of standard pumps. For a complete list of available pumps, call Orenco.

Product Code Diagram



Pump, PF-Series

Not all product code configurations may be available as standard products.

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 Page 9 of 10

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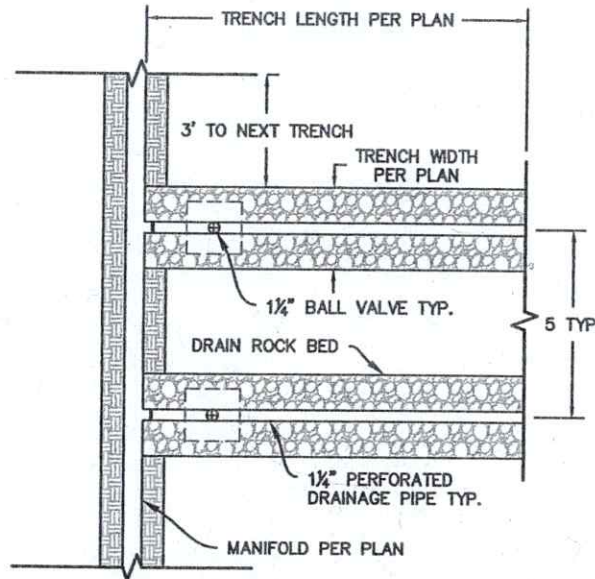
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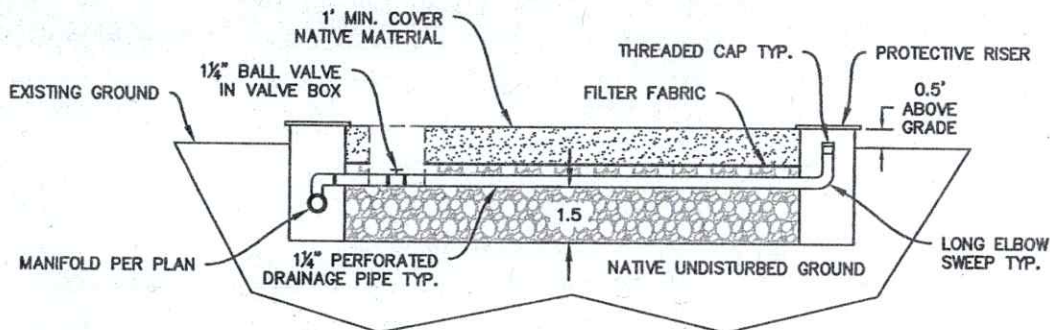
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OF ENVIRONMENTAL HEALTH



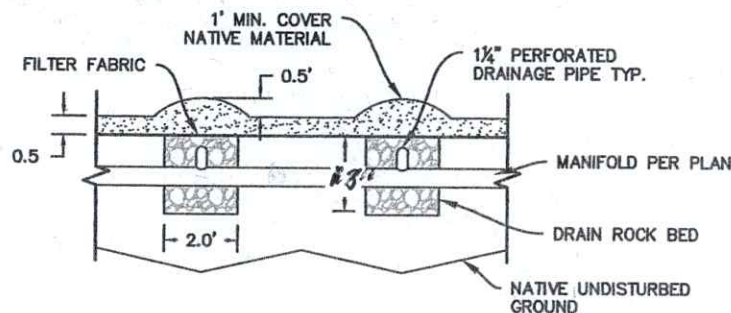
PARTIAL PLAN VIEW OF DRAIN FIELD

N.T.S.



TYPICAL TRENCH PROFILE

N.T.S.



TYPICAL TRENCH CROSS-SECTION

N.T.S.

APN: 500-011-024

NORTHPOINT
CONSULTING GROUP, INC.
1117 Samoa Blvd., Arcata, CA 95521

RIDGEFIELD WEDDING AND EVENTS
2242 FICKLE HILL RD., ARCATA CA, 95521
PRESSURE DISTRIBUTION SYSTEM

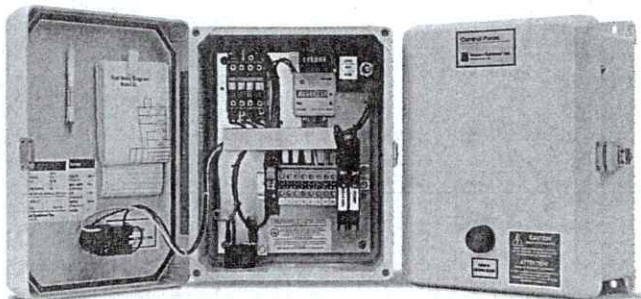
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S-Series Simplex Control Panels

Applications

Orenco® S-Series Simplex Control Panels control single pumps in effluent sewer (STEP) systems, onsite septic systems, and for pump control into conventional gravity sewer systems.



Orenco S-Series Simplex Control Panel (S1ETMCT shown)

Materials of Construction

Component	Material
Enclosure	UV-resistant fiberglass, Type 4X (IP 66)
Hinge	Stainless steel
Latch	Stainless steel

Specifications

Feature	Specifications
Height, in. (mm)	11.5 (292)
Width, in. (mm)	9.3 (236)
Depth, in. (mm)	5.4 (137)
S1 panel ratings*	120 VAC, 1 hp (0.75 kW), 16 A, 1-phase, 60 Hz
S2 panel ratings*	240 VAC, 3 hp (2.24 kW) 16 A, 1-phase, 60 Hz

* Pump motors used with these panels require internal overload protection.

General

Orenco® S-Series Simplex Control Panels are electromechanical panels for controlling single pumps. Standard features include an Automatic/Off/Manual (Auto/Off/Man) toggle switch, controls circuit breaker, pump circuit breaker, automatic motor control operation, and an audible/visible high water level alarm with auto reset. Specifications for standard and optional features are listed on page 2.

All S-Series control panels have a 120 VAC controls circuit breaker. S1 panels have a 120 VAC pump circuit breaker, while S2 panels have a 240 VAC pump circuit breaker.

All S-Series panels can be used with both mechanical and mercury float switches.

Listed per UL-508 and cUL-508; CE-listed versions of S-Series panels are available.

Standard Models

S1, S2

Product Code Diagram

S 1 [] ETMCT

Standard options (list in order):

PT = programmable timer
 RO = redundant off relay
 DS = disconnect switch
 ETM = elapsed time meter
 CT = event counter
 HT = heater
 PRL = pump run light
 PL = power light
 SA = surge arrestor

Intrinsically safe relays:

Blank = standard, no IR relays
 IR1 = up to 2 float switches
 IR2 = up to 4 float switches

Pump voltage:

1 = 120 VAC
 2 = 120 VAC or 240 VAC

S Series simplex control panel



Page 10 of 10