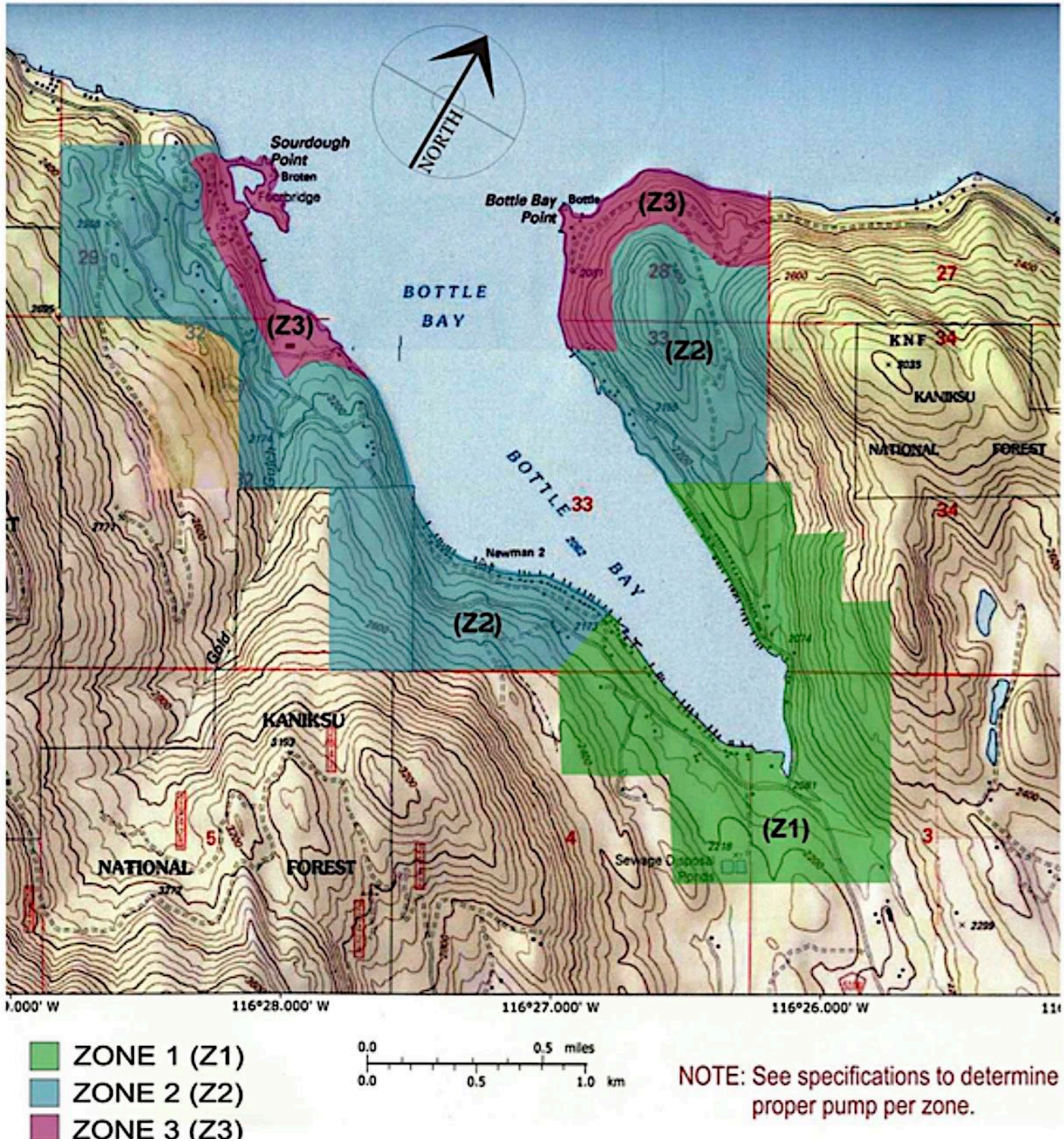


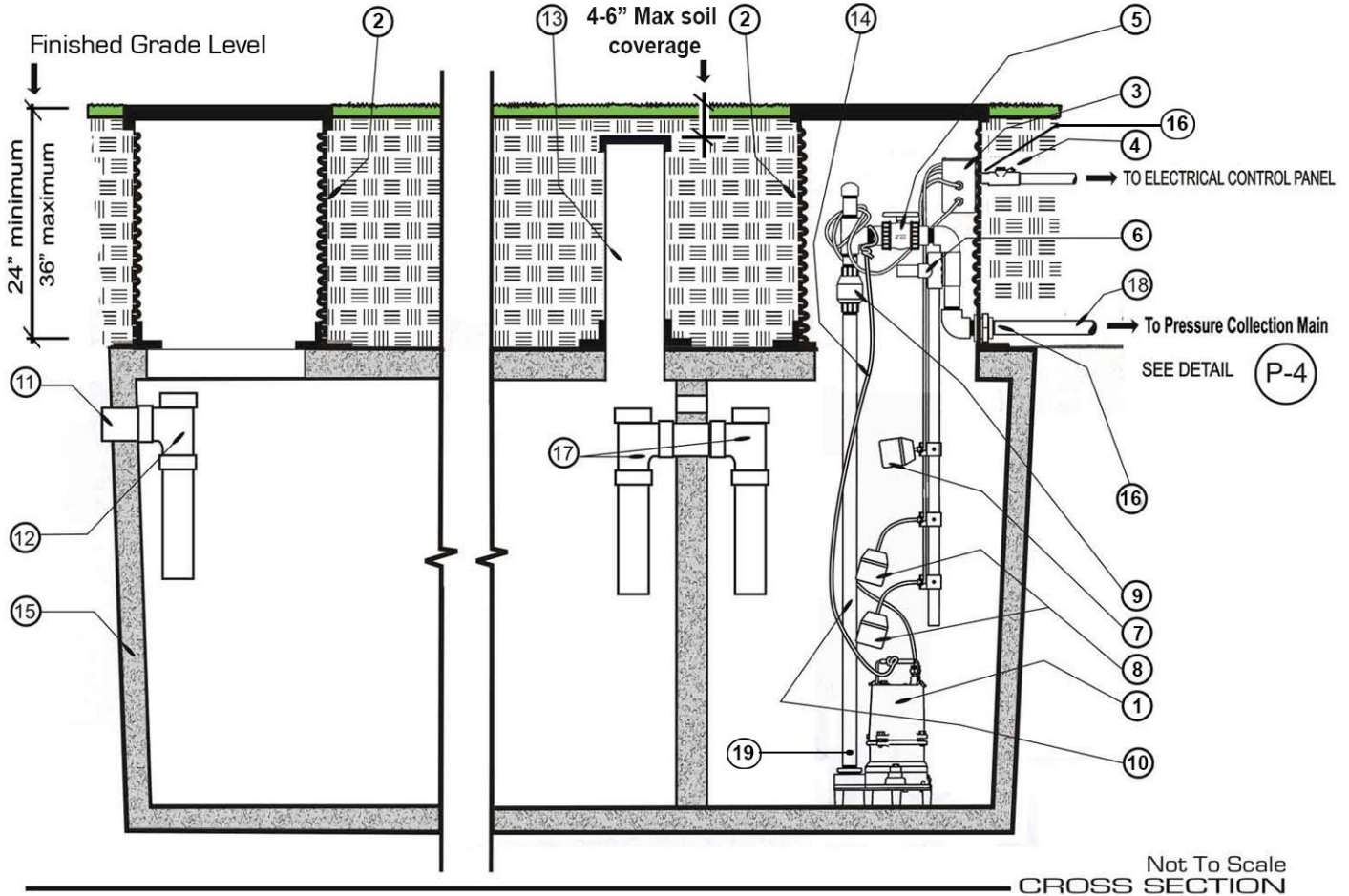
# Pump Zone Map





**PUMP INSTALLATION PLANS  
P-1/ZONE 1 & P-2/ZONE 2 ONLY**

**ONE-PIECE TWO COMPARTMENT CONCRETE TANK  
WITH 1/2 OR 1 HP EFFLUENT PUMP**



**See following page for Material List Specifications by Plan Drawing Item Reference Number**

**MATERIAL & SPECIFICATIONS LIST  
FOR PUMP INSTALLATION  
PLAN P-1/ZONE 1 & PLAN P-2/ZONE 2 ONLY**

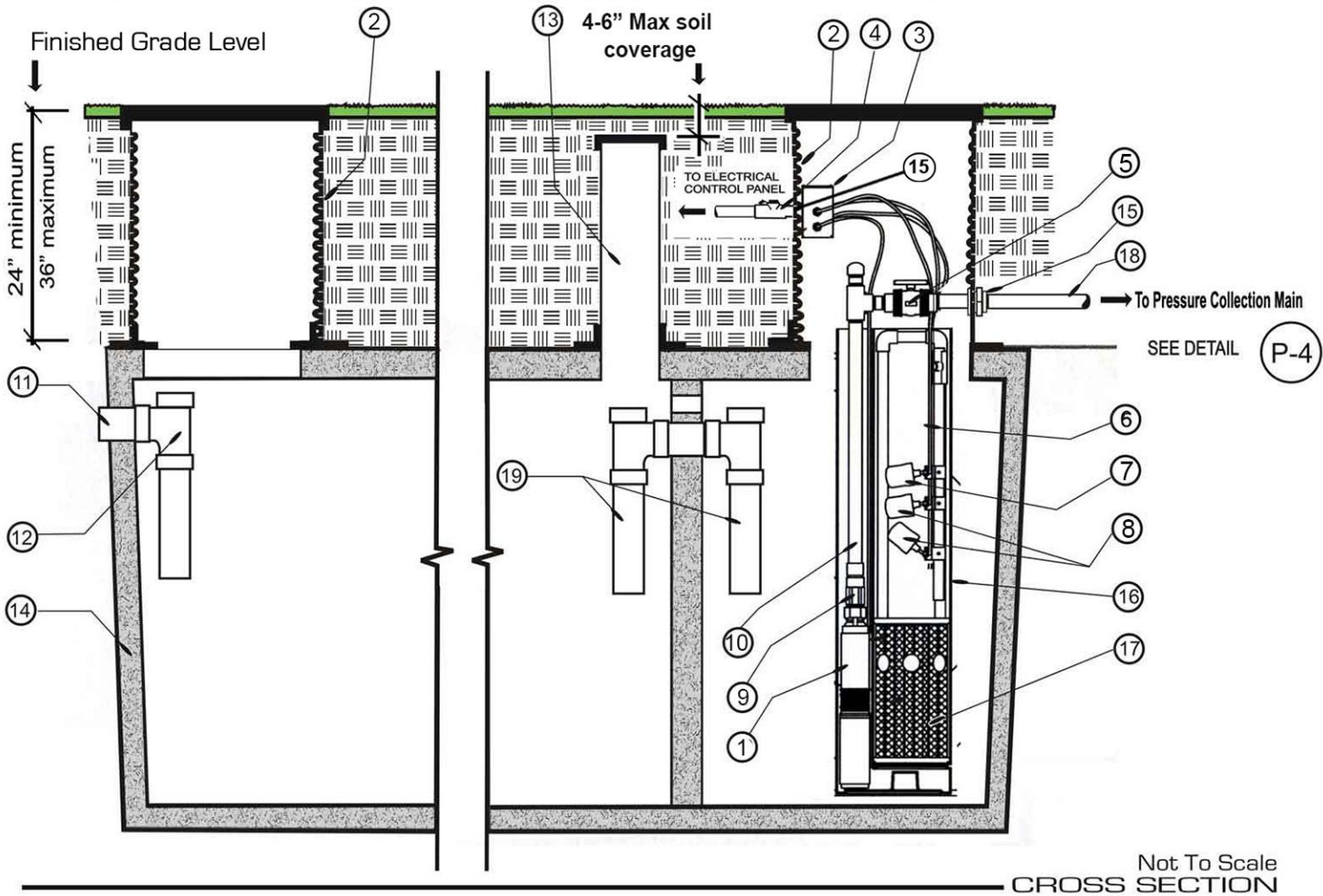
<b>Item</b>	<b>Description</b>
01	<b>Zone Z-1:</b> MEYER MES 50 ½ HP EFFLUENT PUMP 230 VOLT
01	<b>Zone Z-2:</b> MEYER MES 100 1 HP EFFLUENT PUMP 230 VOLT
02	24" dia. PVC KOR FLOW Riser w/ lid
03	Water Tight Electrical Splice Box Simplex Model SB4
04	Explosion Proof Electrical Conduit Seal
05	1-1/4" TRU-UNION PVC Schedule 80 Ball Valve
06	ORENCO Fiberglass Pipe Support & Float Switch Tree
07	Alarm Signal ORENCO Float Switch
08	Control Signal ORENCO Float Switch
09	PVC Flapper or Ball Check Valve
10	1-1/4" Schedule 80 PVC Piping and Fittings (typical)
11	House Line Sewage Inlet
12	Sewage Tee
13	8" PVC or larger Sewage T Clean-out Access with ORENCO Lid #FL8G or approved alternate
14	3/8" dia. Braided Nylon Extraction Line
15	1500 Gallon One-Piece Two Compartment Concrete Septic Tank (1000 Septic / 500 Pump Basin or size required by IDEQ)
16	Schedule 80 PVC Bulkhead Fitting
17	Internal Baffle
18	1-1/2" 250 PSI type SIDR-7 Poly Pipe with brass connectors and stainless steel sleeve insert
19	1/8" Primer Hole Drilled Within 6" of Pump Connection

**ITEM NOT ON DRAWING**

Pump Control Box	Orenco Model #S2 / ETM Pump Control Panel located on an adjacent side of the building and within sight of the Pump Basin or mounted on a post located at the Pump Basin.
------------------	--

# PUMP INSTALLATION PLAN P-3/ZONE 3 ONLY

## One-Piece Two Compartment Concrete Tank with 1 HP Effluent Pump



See following page for Material List Specifications by Plan Drawing Item Reference Number

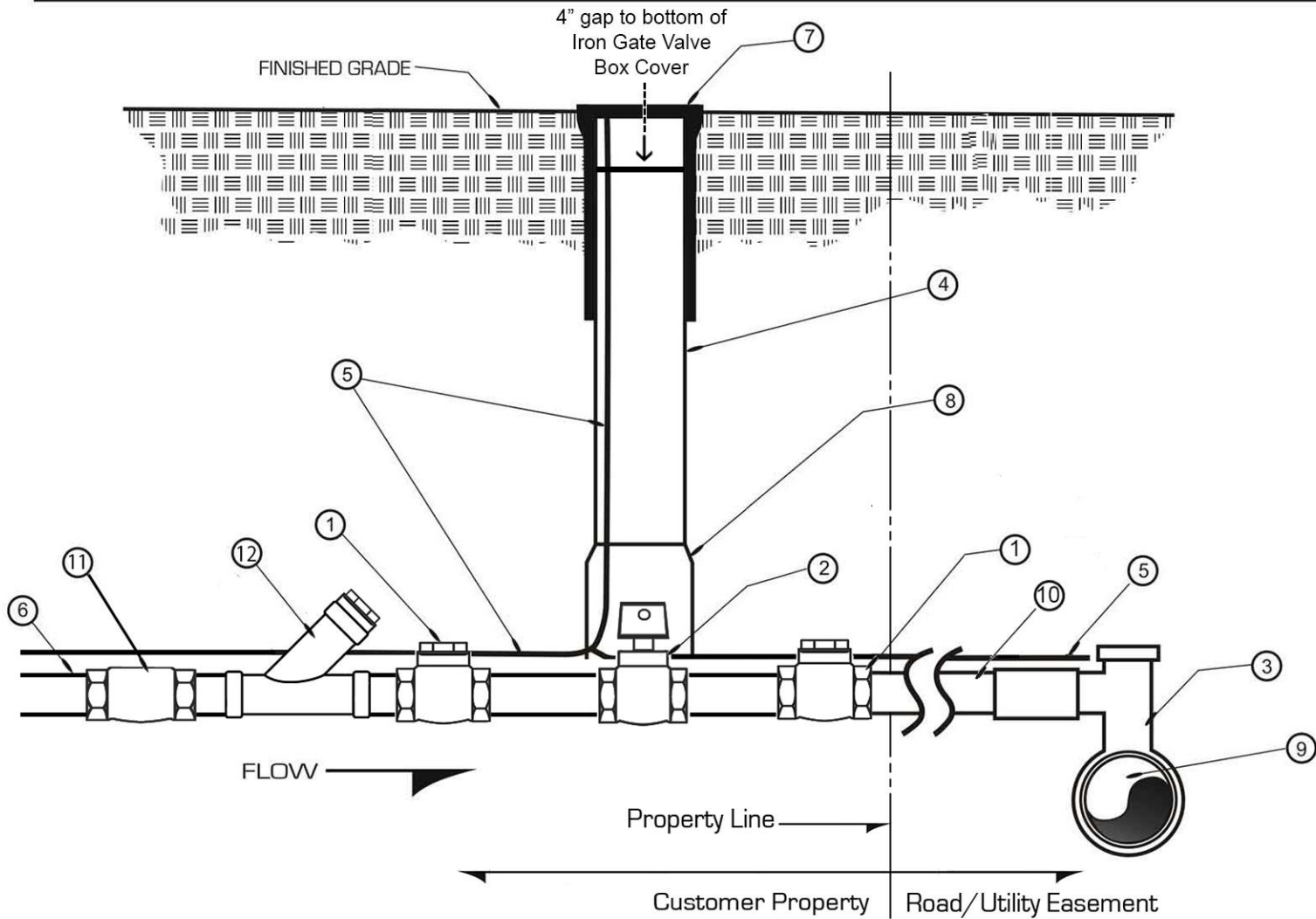
## MATERIAL & SPECIFICATIONS LIST FOR PUMP INSTALLATION PLAN P-3/ZONE 3 ONLY

Item	Description
01	<b>Zone Z-3:</b> ORENCO #PF 101012 HIGH HEAD PRESSURE 1 HP 230 Effluent Pump
02	24" dia. PVC KOR FLOW Riser w/ lid
03	Water Tight Electrical Splice Box Simplex Model SB4
04	Explosion Proof Electrical Conduit Seal
05	1-1/4" TRU-UNION PVC Schedule 80 Ball Valve
06	ORENCO Fiberglass Pipe Support & Float Switch Tree
07	Alarm Signal Float Switch
08	Control Signal Float Switches
09	PVC Flapper or Ball Check Valve
10	1-1/4" Schedule 80 PVC Piping and Fittings (typical)
11	House Line Sewage Inlet
12	Sewage Tee
13	8" PVC or larger Sewage T Clean-out Access with ORENCO Lid #FL8G or approved alternate
14	1500 Gallon One-Piece Two Compartment Concrete Septic Tank (1000 Septic / 500 Pump Basin or size required by IDEQ)
15	Schedule 80 PVC Bulkhead Fitting
16	ORENCO Bio Tube Pump Vault Model #PVU57-1819
17	ORENCO Bio Basket Filter
18	1-1/2" 250 PSI type SIDR-7 Poly Pipe with brass connectors and stainless steel sleeve insert
19	Internal Baffle

### ITEM NOT ON DRAWING

Pump Control Box	Orenco Model #S2 / ETM Pump Control Panel located on an adjacent side of the building within sight of the Pump Basin or mounted on a post located at the Pump Basin.
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# LATERAL LINE HOT TAP CONNECTION AT FORCE MAIN



LATERAL LINE HOT TAP CONNECTION AT FORCE MAIN DETAIL  
Not To Scale

See following page for Material List Specifications by Plan Drawing Item Reference Number

**PLAN P-4**  
**MATERIAL & SPECIFICATIONS LIST**  
**FOR LATERAL LINE HOT TAP**  
**INSTALLATION AT FORCE MAIN**

<b>Item</b>	<b>Description</b>
01	1-1/2" Stainless Steel Check Valve (two locations)
02	1-1/2" Stainless Steel Ball Style Curb Stop Service Valve
03	PVC Hot Tap – (3" or 4" as required at existing Force Main) or approved equivalent
04	4" PVC Riser Gate Valve Box
05	12 Gauge Insulated Copper Locating Wire (Taped to Valve), green in color. All splices and dead ends are to be shrink wrapped.
06	1-1/2" 250 PSI type SIDR-7 Poly Pipe with brass connectors and stainless steel sleeve insert
07	6" Iron Gate Valve Box Top and Cover (with "SEWER" imprint)
08	6" x 4" PVC Reducer (notched to receive 1-1/2" line)
09	Existing 3" or 4" PVC Force Main
10	All rigid pipe to be stainless steel
11	1-1/2" 250 PSI Type SDIL-7 Poly Pipe Connector, brass with stainless steel sleeve insert
12	1-1/2" Wye with threaded cap (no connection to surface. . .camera/rooter port



**BOTTLE BAY**  
RECREATIONAL WATER & SEWER DISTRICT

P.O. Box 304, Sagle, ID 83860-0304  
(208) 265-4964 www.bottlebaydistrict.org



**CONNECTION CHECK LIST &  
RECORD OF REQUIRED TESTS, INSPECTIONS & ACCEPTANCE CHECK  
LIST**

Customer / Property Owner Name: \_\_\_\_\_ Customer Acct. #: \_\_\_\_\_ CR #: \_\_\_\_\_

**CONNECTION CHECK LIST** (Revised May 2021)

DOCUMENTS AND REQUIREMENTS	STATUS (DONE?)	COMPLETED BY (Initials)	DATE	REC'D ON TIME ?
Verified Owners w/County or District Records	No Yes			
Verified Customer Account No. and is it current.	No Yes			
“Will Serve” Letter provided to customer if requested ?	NA Yes			
Document Package sent by email ? by USPS ?	No Yes			
Informed Customer. Re: county Floodplain Dev. Permit	No Yes			
Connection Agreement Notarized & Received	No Yes			No* Yes
Residential System Sewer Easement: Notarized/Received	NA Yes			No* Yes
Customer has Residential System Requirements?	No Yes			
Date of Residential System Requirements				
Customer has Ordinances: Rates, Connection & General?	No Yes			
Inspection Deposit paid and amount	\$			No** Yes
Building Location Permit Application Substitute Rec'd	No Yes			No** Yes
Number of bedrooms / septic tank size/ pump basin size	/ /			
Tank and lines sited correctly on BLPA Substitute ?	No Yes			
Board authorized BL Permit Application Substitute?	No Yes			
Public Works Licensure Number of Installer Rec'd				
Number: _____ and determined current.	No Yes			
Verify all documents to District File?	No Yes			

\*Due 30 calendar days after receipt. \*\* Due 10 working days after County approves Building Location Permit.  
Failure to meet due date may result in charge for District time in following up/expediting. \$45/Hr (1 Hr min.)

Other comments:





**BOTTLE BAY**  
RECREATIONAL WATER & SEWER DISTRICT



P.O. Box 304, Sagle, ID 83860-0304  
(208) 265-4964 www.bottlebaydistrict.org

Member / Property Owner Name: \_\_\_\_\_ CR #: \_\_\_\_\_  
Installation Contractor: \_\_\_\_\_

**INSPECTIONS MUST BE SCHEDULED AT LEAST 72 HOURS IN ADVANCE AND FOR MONDAY THRU FRIDAY**

**RECORD OF REQUIRED TESTS, INSPECTIONS & ACCEPTANCE CHECK LIST**

DOCUMENTATION IF NOT ALREADY PROVIDED	Status (Done ?)		DATE	COMPLETED BY (Initials)
	No	Yes		
Public Works Licensure Number of Installer Received Number: _____ and determined to be current.				

INSPECTION REQUIREMENTS	RESULT	INSPECTED BY & COMMENT	FAIL DATE	PASS DATE
Tank / Lines Located Correctly	Fail Pass			
Shading under tank/basin and lines	Fail Pass			
Septic Tank 24 Hour Seepage Test-Witnessed	Fail Pass			
Lateral Line Pressure Test-Witnessed	Fail Pass			
In-Ground RSR Components Accepted	Fail Pass			
Control RSR Components Accepted	Fail Pass			
Final Grade has surface water drain away from tank/basin and not across	Fail Pass			
Residential System Final Acceptance for Use	Fail Pass			
As-Builts Delivered and Accepted	Fail Pass			

Reasons for Failing include not ready for inspection when District called to inspect and requirement does not meet Residential System Requirements. Failures will be chargeable for District time, \$100 minimum. Inspection Deposit is not processed until As-Builts accepted.

Other Inspection Comments:

# **BBRWSD GUIDE TO SEPTIC TANK/PUMP BASIN SIZING & SITING**

## **I SEPTIC TANK / PUMP BASIN SIZING**

**IDAPA 58.01.03** (Be sure to check this IDAPA for changes)

*Individual/Subsurface Sewage Disposal Rules*

### **007. SEPTIC TANK DESIGN AND CONSTRUCTION STANDARDS**

#### **07. Minimum Tank Capacities.**

a. Tanks serving one (1) or two (2) single dwelling units:

<b>MINIMUM CAPACITY PER DWELLING UNIT</b>	
<b>Number of Bedrooms</b>	<b>Minimum Liquid Capacity (Gallons)</b>
1 or 2	900
3 or 4	1,000

For each bedroom over four (4) add two hundred fifty (250) gallons.

#### **ADDITIONAL DISTRICT REQUIREMENTS**

- **The District requires a minimum of 1,000 gallons of Septic Tank capacity and 500 gallons of Pump Basin capacity (allowing for four bedrooms) on new construction and encourages 1,500 gallons of Septic Tank capacity to allow for future additional bedrooms.**
- **Remodeling or additional buildings on the property that add bedrooms shall require a larger septic tank if 250 gallons per bedroom exceeds the existing tank capacity.**
- **A one-piece CONCRETE combination septic tank/pump basin unit is required unless otherwise approved in writing by the District.**

## **II SEPTIC TANK / PUMP BASIN SITING**

**IDAPA 58.01.03** (Be sure to check this IDAPA for changes)

*Individual/Subsurface Sewage Disposal Rules*

### **007. SEPTIC TANK DESIGN AND CONSTRUCTION STANDARDS**

#### **17. Minimum Separation Distances Between Septic Tanks and Features of Concern.**

Features of Concern		Minimum Distance to Septic Tank in Feet
Well or Spring or Suction Line	Public Water	100
	Other	50
Water Distribution Line	Public Water	25
	Other	10
Permanent or Intermittent Surface Water		50
Temporary Surface Water		25
Downslope Cut or Scarp		25
Dwelling Foundation or Building		5
Property Line		5
Seasonal High Water (Vertically from top of tank)		2

**ADDITIONAL DISTRICT SEPARATION REQUIREMENTS FOR SEPTIC TANK**

Overhead obstruction: roof overhang, deck, power line, etc.	5
Permanent surface features: patio, fire pit, BBQ, etc.	5

**ADDITIONAL DISTRICT REQUIREMENTS**

- **Lateral Line from pump basin to Force Main separation requirements are five (5) feet from property line, foundation, building, overhead obstruction, and permanent surface features.**
- **No “swale” or water retention area, including those required by Bonner County, located within 25 feet of a septic tank/pump basin.**
- **Surface water must drain away from septic tank/pump basin and not across.**
- **Potable and Non-Potable Line Horizontal and Vertical Separations shall be per IDAPA 58.01.08.542.07 Idaho Rules for Public Drinking Water Systems and IDAPA 58.01.16.430 Idaho Wastewater Rules.**