BOTTLE BAY RECREATIONAL WATER AND SEWER DISTRICT

RESIDENTIAL SYSTEM REQUIREMENTS-
INSTALLATION-
-EQUIPMENT-
-INSPECTION, TESTS & FINAL ACCEPTANCE-

- Bottle Bay Recreational Water & Sewer District ("BBRWSD" and "District") Septic Tank Effluent Pump (STEP) system installation requirements for residences.
- BBRWSD or its agents shall approve material substitutions in advance.
- Inspections shall be made and approved by a BBRWSD Operator or agent.
- If there are any questions please contact one of the BBRWSD Operators. Contact information can be found at: bottlebaydistrict.org
- The District shall not accept for connection and service, installations that fail to comply with the Residential System Requirements.

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Adopted 2-15-2022
Amended 4-19-2022; Revised 9-19-2023 (effective 9-20-2023)

SECTION 1.0 GENERAL

1.01 All work is to comply with Idaho Standards for Public Works Construction (ISWPC) and shall comply with Idaho Department of Environmental Quality (IDEQ) IDAPA 58.01.03 Individual/Subsurface Sewage Disposal Rules; IDAPA 58.01.16 Idaho Wastewater Rules; Idaho State Electrical and Plumbing codes; and applicable IDWR rules.

1.02 **THE CONTRACTOR INSTALLING THE RESIDENTIAL SYSTEM SHALL HAVE A PUBLIC WORKS LICENSURE VALID IN IDAHO AND SHALL PROVIDE THE LICENSURE NUMBER PRIOR TO STARTING WORK.**

1.02 All equipment, installation, and methods of installing shall be as specified. The BBRWSD or its agents, prior to commencing work and prior to obtaining the Residential Siting Permit (RSP), shall approve any alternate to these specifications in writing.

1.03 **UNDER NO CIRCUMSTANCES SHALL SURFACE OR GROUND WATER DRAINAGE BE APPROVED OR ALLOWED TO DISCHARGE INTO THE SEWER SYSTEM. THIS INCLUDES, BUT IS NOT LIMITED TO ROOF DRAINAGE; SUBSURFACE SUMP PUMP DRAINAGE; LANDSCAPE IRRIGATION; DRIVEWAY, WALKWAY, PATIO, HOUSE FLOOR DRAIN, GARAGE FLOOR DRAIN, CURTAIN DRAINS AND SUBSURFACE DRAINAGE (INFLOW/INFILTRATION).**
NOTE: Backwash from a water system softener and water condensing from a propane heater will nullify Septic Tank/Pump Basin/Riser Seepage Test mentioned in 4.06.

1.04 An RV pad or other approved facility external to a dwelling unit shall have a sealed connection to the residential sewer system.

SECTION 2.0 SETBACKS

2.01 *The BBRWSD Guide to Septic Tank Sizing and Siting* is a useful summary of these Idaho Title references (user must verify for itself the accuracy of the Guide to the referenced Titles) and BBRWSD's own additional siting requirements. See Appendices A-10-11

SECTION 3.0 EXCAVATIONS

3.01 All in-ground plumbing lines and the septic tank/pump basin shall be bedded/shaded and backfilled with clean sand material. Coverage shall be a minimum of six (6) inches at sides and base and twelve (12) inches of coverage over the top. A locator wire consisting of 12 AWG copper wire with green insulation and ALERT TAPE shall be placed over the lines. Run the locator wire from the Force Main and up the gate box leaving a loop that can be pulled out the top of the gate box about 18", then back down the gate box along the lateral line pipe back to the septic tank/pump basin, all in one continuous run. The "ALERT TAPE" should run approximately 12" above the Lateral Line pipe so that when a future excavator encounters the tape they know they are getting close.

Refer to Plan P-4 (Appendix A-7, Item 05) for Locator Wire routing. Bedding / shading and ALERT TAPE shall be witnessed by a BBRWSD Operator or agent prior to coverage or it will have to be uncovered for inspection at owner's expense.

3.02 All finish grades shall divert surface water drainage away from the sewer system access points such as the septic tank/pump basin seams and risers.

SECTION 4.0 SEPTIC TANKS / PUMP BASINS

4.01 Septic tanks shall be of Idaho DEQ approved one-piece CONCRETE construction. There is a table (5.1) in IDEQ's *Technical Guidance Manual* with a list of approved manufacturers.

An alternative septic tank construction such as a Clam-Shell Concrete (two-piece), Poly Tank, or Fiberglass tank may be acceptable if approved by the state of Idaho and in advance by BBRWSD or its agents. All Septic tanks shall have an integral 500-gallon pump basin.

4.02 All septic tanks shall be sized in accordance with IDEQ standards in effect at time of installation or as otherwise approved in advance by BBRWSD or its agents.

The BBRWSD Guide to Septic Tank Sizing and Siting is a useful summary of these Idaho Title references (user must verify for itself the accuracy of the Guide to the referenced Titles) and BBRWSD's own additional tank sizing requirements. See Appendices A-10-11.

4.03 All "clam-shell" concrete (if previously approved by BBRWSD or its agents) septic tank/pump basin seams, all joints, pipe penetrations and explosion proof (in accordance with plumbing and electrical codes) electrical conduit penetrations through concrete tank walls shall be sealed with hydraulic concrete grout on the interior and exterior of the tank and then coated with foundation sealer (Henry's or equivalent) on exterior of the tank.

If a poly or fiberglass tank was approved by BBRWSD or its agents prior to installation all pipe penetrations shall be watertight bulkhead fittings and installed in accordance with manufacturer's specifications.

4.04 The twenty-four (24) inch Access Risers on the septic tank/pump basin and the 8" Clean Out Access Riser on the septic tank shall be ORENCO with lids and ORENCO PVC flanges installed per manufacturer specifications. This includes bolting to the tank and type of sealant to be used.

4.05 The pump basin lid shall have a 2" closed cell (so it does not absorb liquid) foam insulation piece glued to its underside.

4.06 **Septic Tank/Pump Basin/Riser Seepage Test**: All new septic tanks/pump basins and risers shall pass a seepage test prior to backfill and coverage. The seepage test is to be by the "water draw down" method where the septic tank is filled with water by the contractor to a level within one (1) inch of the top of all the risers and allowed to sit undisturbed for 24 hours to allow the concrete to absorb what it will and for entrapped air to be released. After 24 hours water levels should be stabilized and the level in the tank shall be measured and recorded. After an additional 24 hours the tank shall be measured and recorded again. If the septic tank/pump basin/riser measurements are approximately the same then they are holding tight.

The BBRWSD Operator shall perform the measurement portion of this test.

SECTION 5.0 LATERAL LINES AND FORCE MAIN CONNECTION

5.01 The Gate box and Service Valve shall be located on customer's side of the property line adjacent to the Force Main and within twenty-four (24) inches of the property line unless approved in advance by BBRWSD or its agents.

5.02 The Force Main may already have a capped stub or some kind of manifold correctly located for direct connection to the lateral line. We will not know for certain until the location is opened and the BBRWSD Operator called to make a determination of the actual connection required. It may be to use the capped stub or manifold, to install a "tee" in the Main, or to use a "hot tap". If the latter is required, refer to Plan P-4 for Hot Tap installation requirements (Appendices A-6 & A-7).

5.03 The lateral line from pump basin to pressure main line shall be Poly Pipe and shall be one piece (no joints) unless approved by the BBRWSD or its agents for very long runs, until connecting as shown in Plan P-4 at the check valve upstream of the Service Valve (Appendix A-6).

5.04 **Lateral Line Pressure Test**: The lateral line from the pump basin to the Service Valve shall pass a pressure test as described in Idaho Standards for Public Works Construction and/or the Idaho State Plumbing Code. The test is to be witnessed by the BBRWSD Operator or agent.

SECTION 6.0 EFFLUENT PUMP SELECTIONS

6.01: Refer to the Pump Zone Map at Appendix A-1 and locate the property. Using the color-coding determine whether it is in Pump Zone Z-1, Z-2 or Z-3. If the location is on the border of two Zones, contact BBRWSD for clarification.

6.02: Each Pump Zone requires a specific effluent pump, (or equivalent approved in advance by BBRWSD or its agents), to be installed per the manufacturer's specifications unless otherwise directed by governing codes and/or Residential System Requirements AND as shown on appropriate Pump Installation Plan P-1/P-2 or P-3.

6.03: While it should be obvious, the pump goes in the Pump Basin and not in the Septic Tank.

6.04: **Pump Zone Z-1 Installation Plan P-1** (Appendix A-2)
See PUMP INSTALLATION PLAN – ZONE 1 Material List and Specifications.
Pump Zone Z-2 Installation Plan P-2 (Appendix A-2)
See PUMP INSTALLATION PLAN – ZONE 2 Material List and Specifications
Pump Zone Z-3 Installation Plan P-3 (Appendix A-4)
SEE PUMP INSTALLATION PLAN ZONE 3 Material List and Specifications.

SECTION 7.0 FILTRATION

7.01 An ORENCO BIO-BASKET FILTER assembly shall be used in Pump Zone 3 applications (See Appendix A-1) or equivalent approved in advance by BBRWSD or its agents.

The specific ORENCO model is listed on the Material/Specification List for P-3 (Appendix A-5).

SECTION 8.0 PUMP INSTALLATIONS

8.01 PUMP INSTALLATION: Refer to Plan P-1/P-2, or P-3 depending on the required pump as determined by the Pump Zone (see Appendix A-1)

SECTION 9.0 ELECTRICAL

9.01 BULKHEAD FITTINGS: All conduit penetrations through Access Risers shall be through a watertight bulkhead fitting.

9.02 PUMP FLOAT SWITCHES: All pump applications shall use the ORENCO float switch assembly or equivalent approved in advance by BBRWSD or its agents, installed as per manufacturer's specifications.

9.03 The SPLICE BOX located inside the Pump Basin shall be a SIMPLEX or equivalent approved in advance by BBRWSD or its agents, installed as per manufacturer's specifications.

9.04 The PUMP CONTROL BOX shall be an ORENCO CONTROLS or equivalent approved in advance by BBRWSD or its agents. It shall have visual and audible alarm functions, a "Lock Out" Feature and an Event Time Meter. It shall be located on an adjacent side of the building within sight of the Pump Basin or mounted on a post located at the Pump Basin.

The specific ORENCO model is listed on both of the Material/Specification Lists for Pump Installation Plans P-1/P-2 and P-3.

9.05 All connections of conduit used to transport conductors shall be made in accordance with state requirements for such installations and with explosion proof connectors at the bulk head fitting location on the riser and at the conduit entry point at the control box.

SECTION 10.0 INSPECTIONS, TESTS AND ACCEPTANCE

10.01 A job card will posted at the site with the various inspections and tests required with a place for the BBRWSD Operator or agent to sign-off when completed.

10.02 **Physical Location of the Residential System**:
It shall be the responsibility of the Owner to ensure that the BBRWSD Operator or agent witnesses the excavations for the septic tank/pump basin and the lateral line to ensure the location is per the approved Site Plan and that the proper amount of shading is present. Failure to do so will require uncovering the equipment at owner's expense for proper inspection as previously mentioned Section 3.01.

NOTE: INSPECTIONS MUST BE SCHEDULED 72 HOURS IN ADVANCE AND FOR MONDAY-FRIDAY IN ORDER TO ENSURE THAT THE BBRWSD OPERATOR OR AGENT IS AVAILABLE.

10.03 **In-Ground Residential System Components**: It shall be the responsibility of the Owner to ensure that the BBRWSD Operator or agent inspect all in-ground plumbing components downstream of the septic tank inlet connection including, but not limited to the septic tank/pump basin, the lateral line, and the Force Main connection prior to covering. If the Owner fails to have this inspection performed, the Owner shall arrange to have the un-inspected items uncovered for inspection and then recovered.

10.04 **Other Residential System Components**: It shall be the responsibility of the Owner to ensure that the BBRWSD Operator or agent inspect the other Residential System Components including but not limited to the pump control, float valves, septic tank/pump basin interior plumbing and the pump.

10.05 **Witnessed Septic Tank/Pump Basin/Riser Seepage Test** described in Section 4.06

10.06 **Witnessed Lateral Line Pressure Test** described in Section 5.04

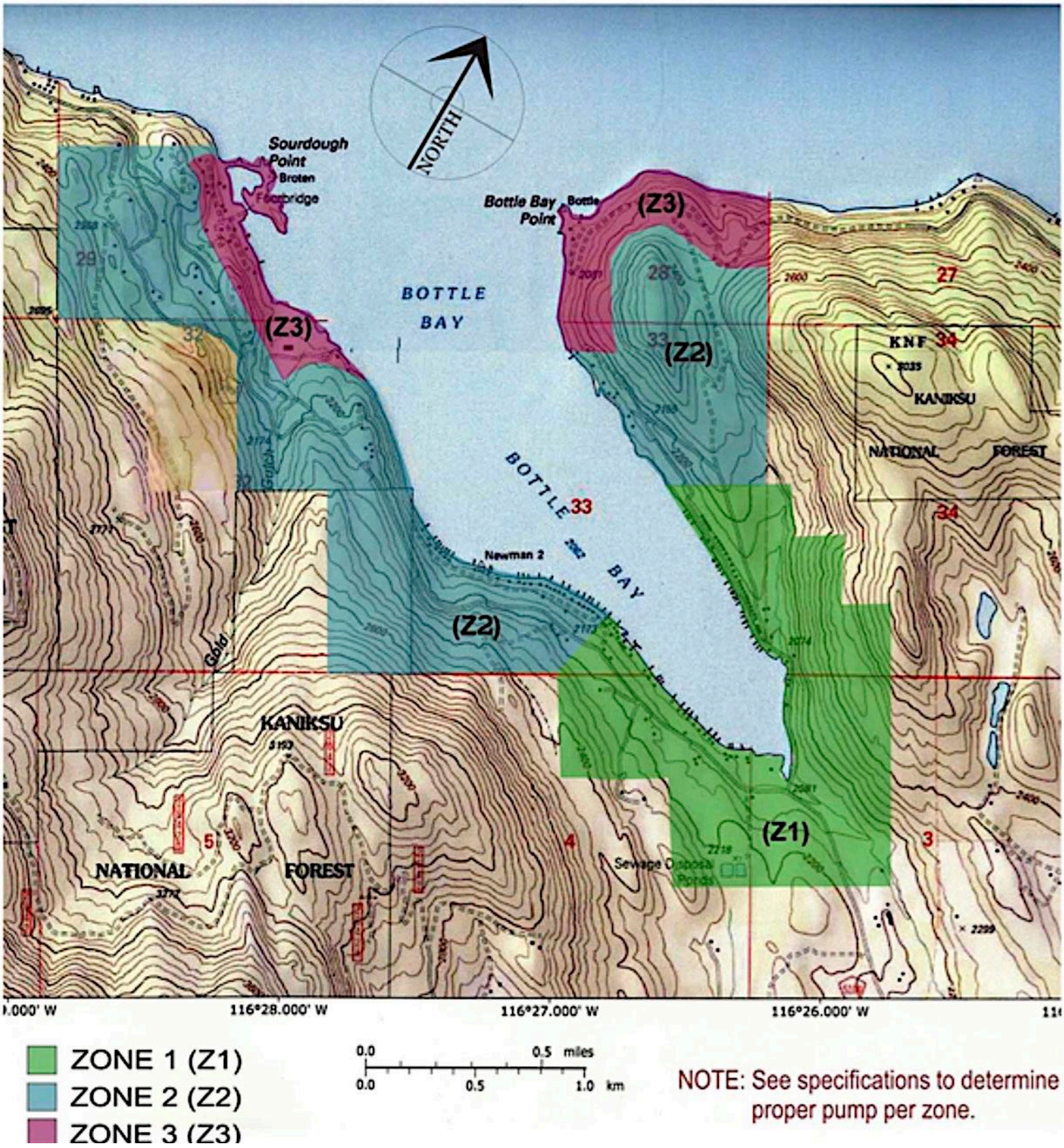
10.07 **Final Acceptance** of the Residential System occurs when all the inspections and test have been made, passed and signed-off by the BBRWSD Operator or agent. Power must be available at Final Acceptance. After Final Acceptance the BBRWSD Operator or agent will put the Residential System into service.

PUTTING THE RESIDENTIAL SYSTEM INTO SERVICE BY ANYONE OTHER THAN THE BBRWSD OPERATOR OR AGENT (ENERGIZING AND OPENING SERVICE VALVE) PRIOR TO FINAL ACCEPTANCE IS NOT ALLOWED AND A FINE WILL BE APPLIED.

SECTION 11.0 AS-BUILT DRAWINGS

11.01 As-Built drawings shall be delivered to BBRWSD as one of the requirements for processing the Inspection Deposit.

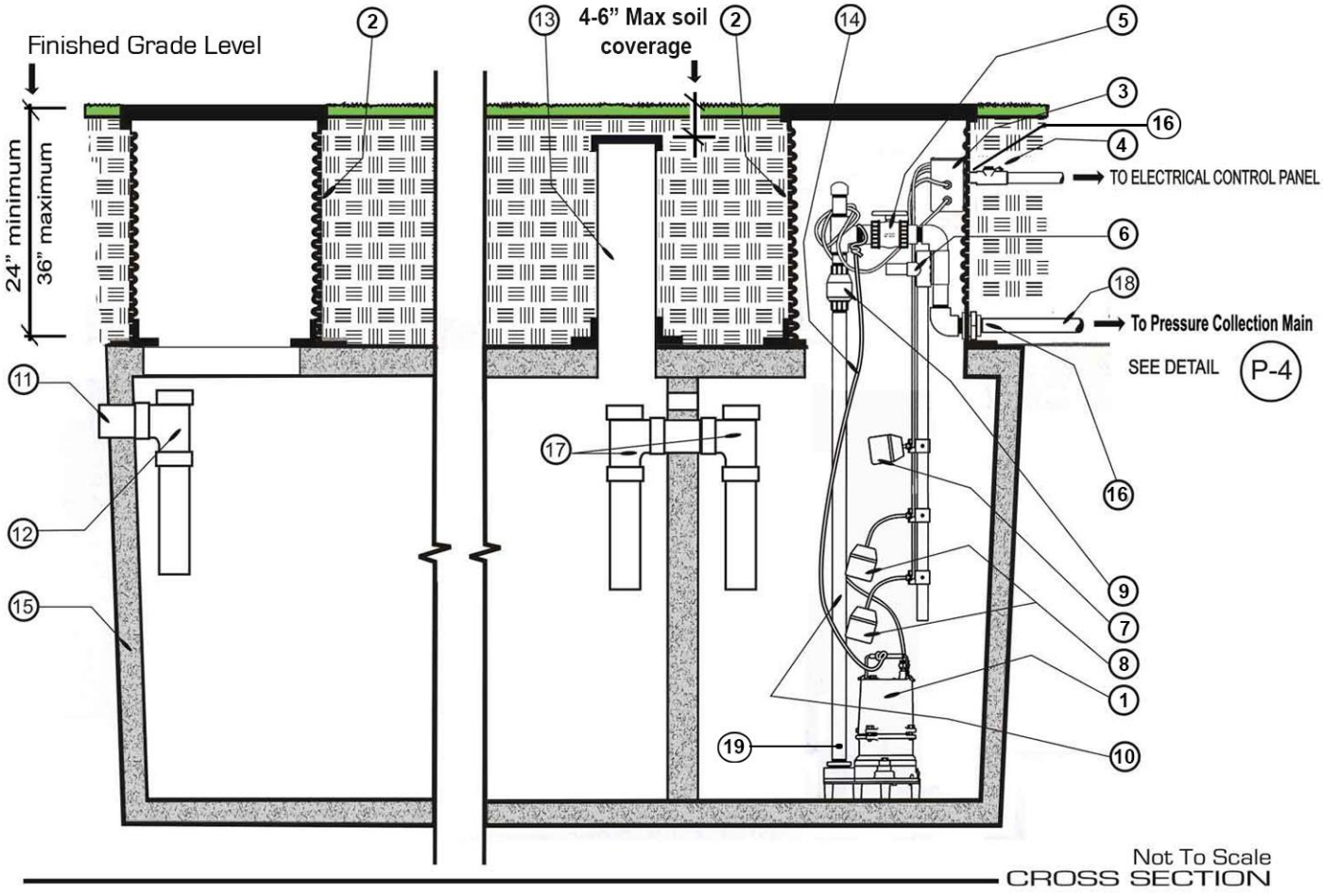
Pump Zone Map



Adopted 2-15-2022
Amended 4-19-2022

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

Adopted 2-15-2022
Amended 4-19-2022

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

Item	Description
01	**Zone Z-1**: MEYER MES 50 ½ HP EFFLUENT PUMP 230 VOLT
01	**Zone Z-2**: 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

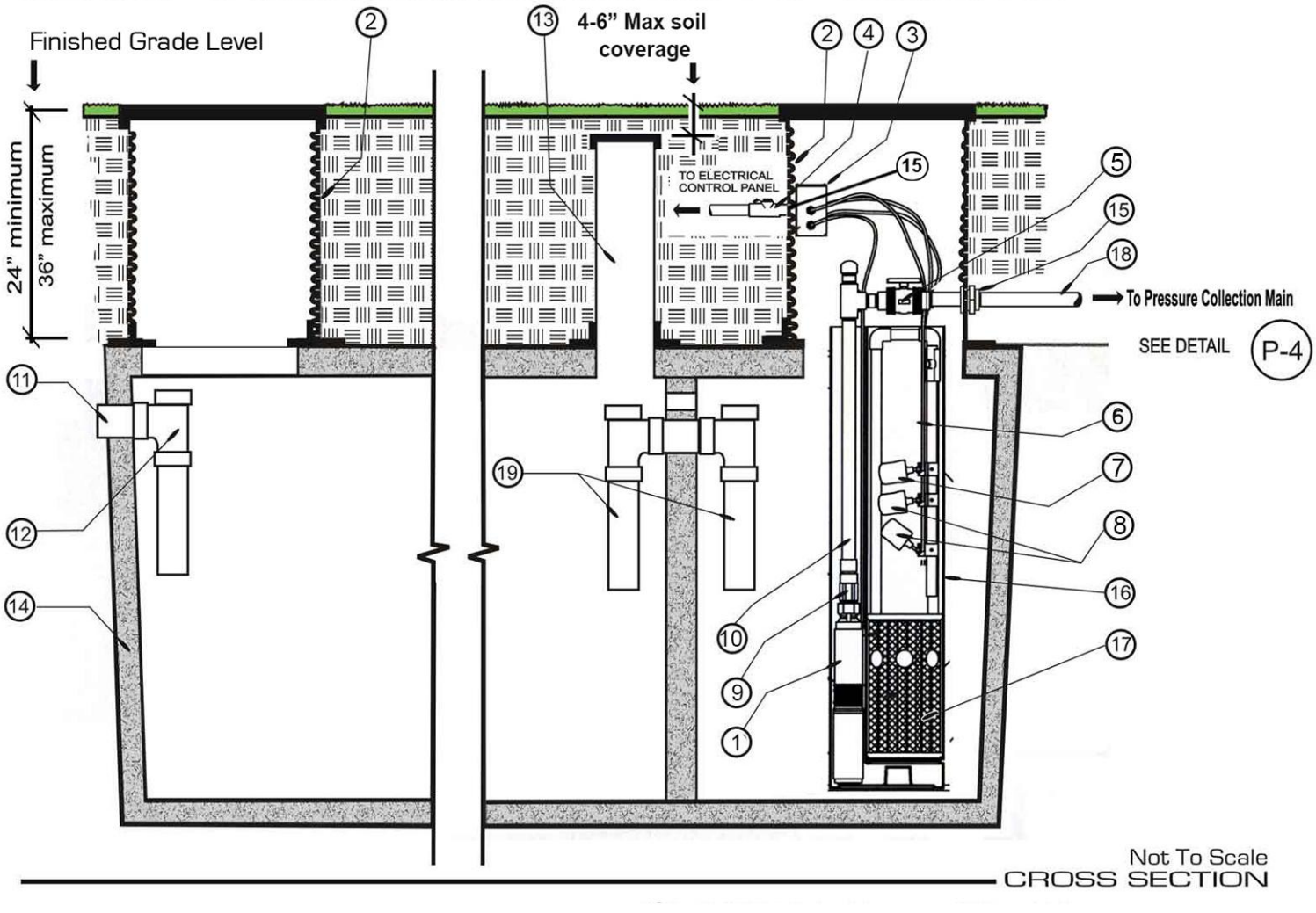
ITEM NOT ON DRAWING

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.

Adopted 2-15-2022
Amended 4-19-2022

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

Adopted 2-15-2022
Amended 4-19-2022

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

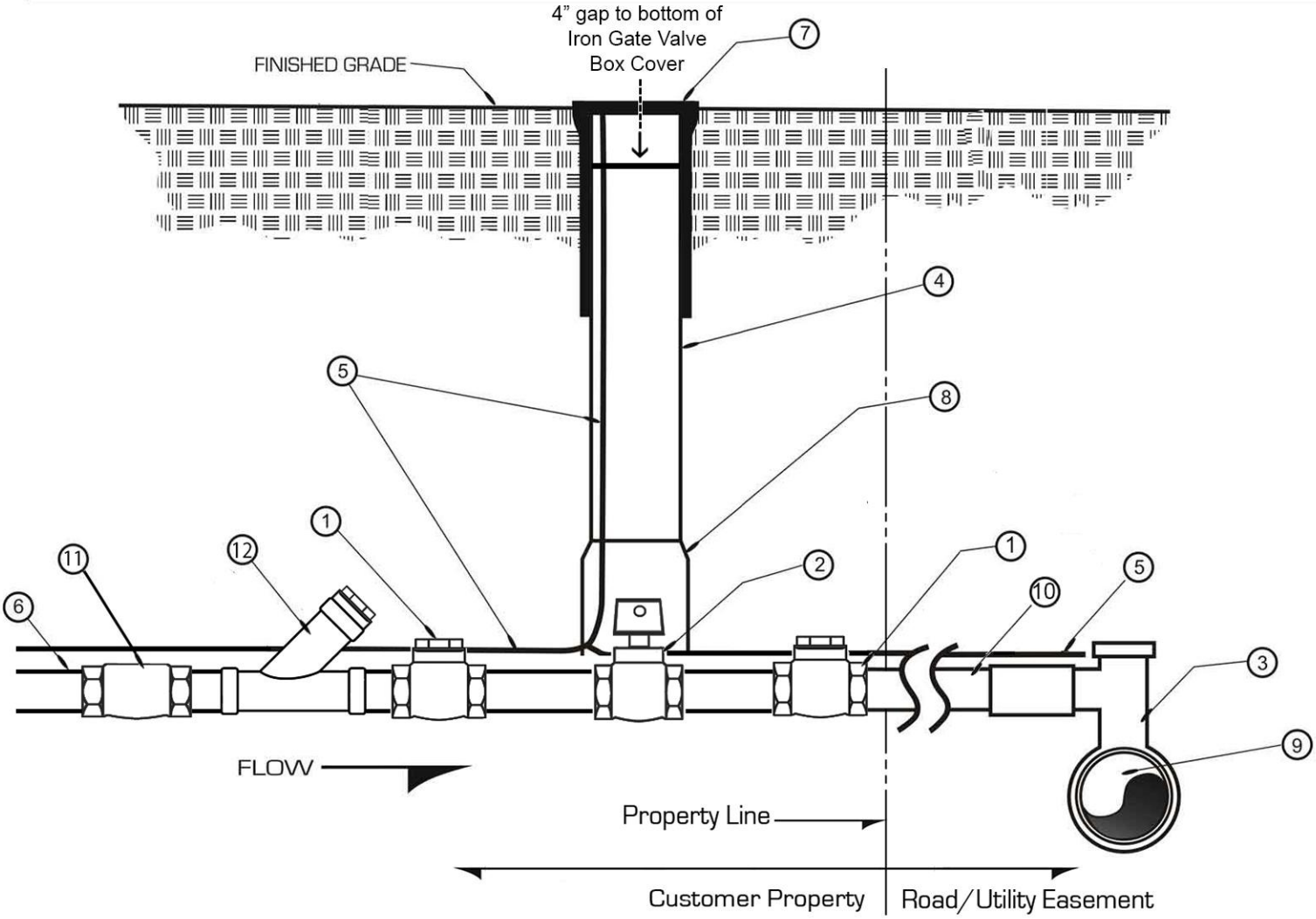
Item	Description
01	**Zone Z-3**: ORENCO #PF 101012 HIGH HEAD PRESSURE 1 HP 230 Effluent Pump
02	24" dia. PVC KOR FLOW Riser w/ lid
03	Water Tight Electrical Splice Box Simplex Model SB4
04	Explosion Proof Electrical Conduit Seal
05	1-1/4" TRU-UNION PVC Schedule 80 Ball Valve
06	ORENCO Fiberglass Pipe 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.

Adopted 2-15-2022
Amended 4-19-2022

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

Adopted 2-15-2022
Amended 4-19-2022

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

Item	Description
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

Adopted 2-15-2022
Amended 4-19-2022

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:

Adopted 2-15-2022
Amended 4-19-2022

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)
Public Works Licensure Number of Installer Received Number: _____ and determined to be current.	No Yes		

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:

MINIMUM CAPACITY PER DWELLING UNIT	
Number of Bedrooms	**Minimum Liquid Capacity (Gallons)**
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 <u>minimum</u> 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 Other	 100 50
Water Distribution Line	Public Water Other	 25 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.**