PERMIT-Subsurface Sewage Disposal

Public Health
Prevent. Promote. Protect.
Idaho Public Health Districts

EASTERN IDAHO PUBLIC HEALTH
1250 HOLLIPARK DRIVE
IDAHO FALLS ID 83401
(208) 523-5382

Permit # : 4123088
Date : 06/05/2023
Parcel # : RP04N45E033002

Applicant's Name: Heather Berman
Owners Name: John Stafford and Heather Berman
Property Address: 1979 S Bates Rd Victor ID 83422
Legal Description: Township 4N Range 45E Section 3
Subdivision: ... Lot Block Size(acres): 20.15

Type of Installation	Type of System (check all that apply)			Water Supply
☐ Tank Only	☒ Absorption Bed	☐ Gravelless Drainfield	☐ Pressurized DF	
☒ New System	☐ Capping Fill	☐ Gray Water Sump	☐ Recirculating GF	☒ Private
☐ Expansion	☐ Central System	☐ Gray Water System	☐ RV Dump Station	☐ Shared
☐ Repair	☐ Composting Toilet	☐ Holding Tank	☐ Sand Mound	☐ Public
☐ LSAS Repair	☐ Drip Distribution	☐ Incinerator Toilet	☐ Seepage Pit	
☐ LSAS New	☐ ETPS	☐ Individual Lagoon	☐ Steep Slope Drainfield	Water Source
	☐ Experimental	☐ Intermittent SF	☐ Two Cell Lagoon	
☐ Basic System	☐ Extra Drainrock	☐ Intrench SF	☐ Vault Privy	☒ Well
☒ Complex System	☐ Evapotranspiration	☐ Tank Only	☒ Other (see below)	☐ Spring
	☐ Gravel Drainfield	☐ Pit Privy		

Conditions of Approval:

Presby Environmental (Advanced Enviro-Septic), Pump to Gravity Distribution

Inspection required before cover by EIPH. 48 Hours advanced notice required for inspection

**Maximum depth of excavation of drainfield trenches 24 inches.

Must be installed in accordance with the Presby Wastewater Treatment System Idaho Design and Installation Manual.

A minimum of 210 lineal feet of Presby pipe is to be used. (70'x3 bedrooms) 6 inches sand between AES pipe rows.

You must meet the minimum Presby pipe length requirement and the minimum drainfield size requirement.

See attached guide for installation.

This permitted system requires the use of an approved medium grade sand (ASTM C-33). The installer is responsible for providing proof to the inspector that the sand used in this installation meets this requirement.

☒ Residential permit — 3 Bedrooms
250 Gallons Per Day
☐ Non-residential permit — Gallons Per Day

Soil Type: B-2 USDA
The minimum septic tank capacity is: 1000 Gallons
The minimum effective drainfield absorption area is: 416 Square Feet
The drainfeld can be no closer to permanent/intermittent surface water than: 175 Feet

Note: Final approval of this permit requires inspection of the uncovered system.

See page 2 for additional terms and conditions.

EHS Signature

06/05/2023
Date Issued

Revision Date 03/05/2021

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Date : _____
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Applicant's Name: _____
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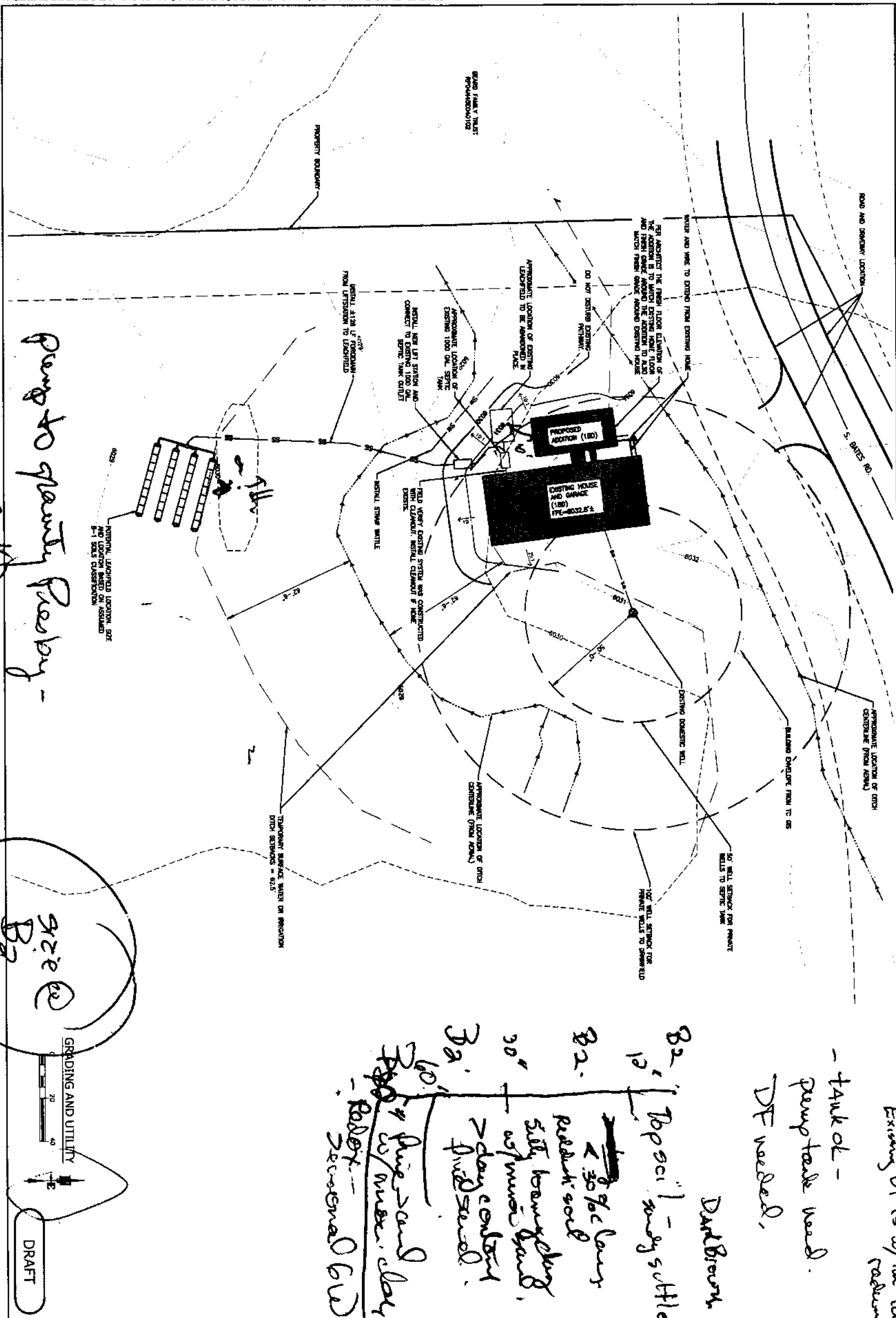
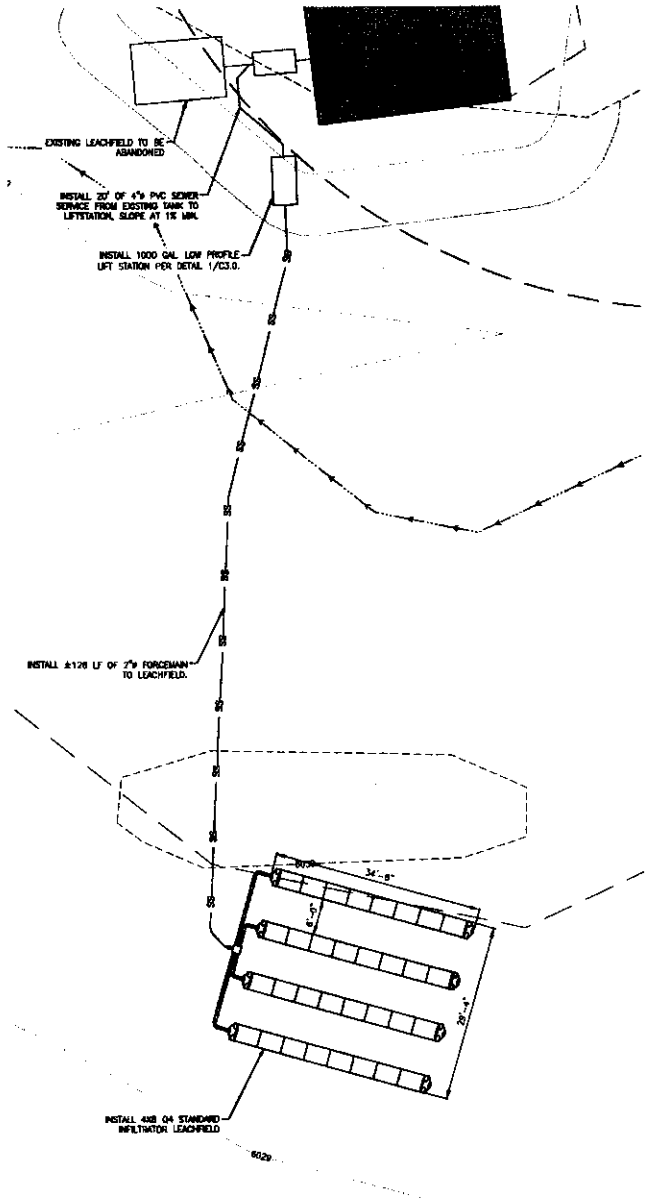
Legal Description: _____ Township _____ Range _____ Section _____
Subdivision: _____ Lot _____ Block _____ Size(acres): _____

This permit expires if the system is not constructed as approved within two years from the date issued. Once the system is constructed and approved by the Health District, all requirements of the approved plans and specifications, permit and permit application (including operations, maintenance, monitoring, and reporting) are applicable indefinitely and convey through transfer of property ownership unless the system is abandoned, removed, replaced, or the permit is renewed. A permit may be renewed if the permit application is received on or before the expiration date of the previous permit. Prior to a transfer of property, the transferor must inform the transferee of all applicable requirements of the permit and application. Failure to satisfy the permit or application requirements may result in enforcement action.



DRAWING NO	JOB TITLE	DRAWING TITLE			
C2.0	MILLIE BATES SEPTIC EXPANSION	GRADING AND UTILITY PLAN	NELSON ENGINEERING	DATE	12/1/22
JOB NO	1979 S BATES RD.			SURVEYED	GS
22-356	TETON COUNTY, IDAHO		P.O. BOX 1599, JACKSON WYOMING (307) 733-2087	ENGINEERED	TM
				DRAWN	TM
				CHECKED	-
				APPROVED	-



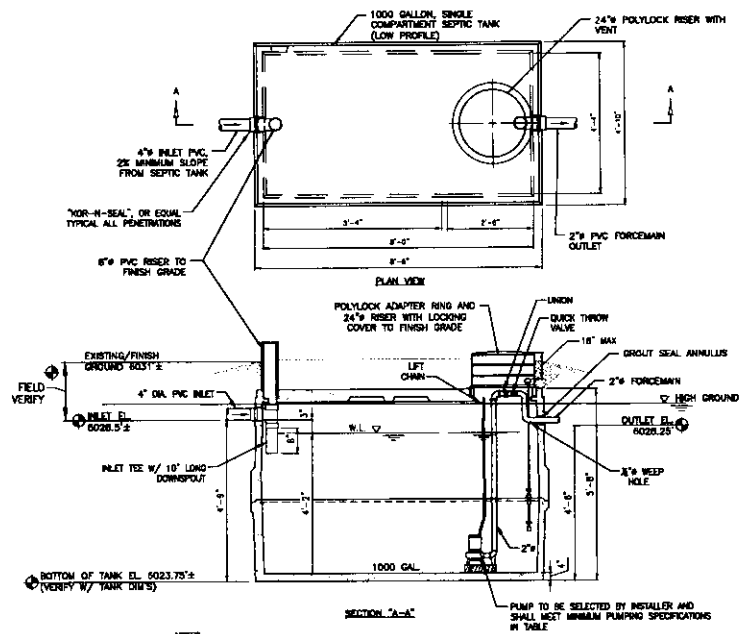
SEPTIC SITE PLAN

0 10 20

GRAVITY SEPTIC SYSTEM DESIGN SUMMARY		
BEDROOMS	3	
BATHROOMS	3	
AVG. DAILY FLOW	300	GAL / BEDROOM / DAY
SEPTIC TANK VOL.	1000	GAL
GROUNDWATER DEPTH	NONE	FT Determined by EIPHS
SOIL TYPE CLASSIFICATION	B-1	MIN / INCH PER EIPHS
APPLICATION RATE	0.60	GAL / SF / DAY
Q4 STANDARD INFILTRATOR RATING	4	FT2/FT (PER TABLE 5-8, ID DEQ TECH. GUIDANCE MANUAL - JULY 2015)
REQ'D INFILTRATOR LENGTH	125	LF
LEACHFIELD DESIGN		
CONFIGURATION	Trench	
UNITS WIDE	4	EA, QUICK4 STD INFILTRATOR
UNITS LONG	8	EA, QUICK4 STD INFILTRATOR
EFFECTIVE INFILTRATOR LENGTH (PLUS END CAPS)	139	LF

DESIGN ELEVATIONS	INVERT ELEV (FT)
FF MAIN HOUSE	6,302.25
CLEANOUT MAIN HOUSE	6,027.53
DISTRIBUTION BOX INLET	6,027.80
LATERALS	6,027.43
BOTTOM OF LEACH FIELD	6,026.56

NOTE:
ACTUAL ELEVATIONS OF EXISTING SEPTIC COMPONENTS IS UNKNOWN. VALUES SHOWN ARE ASSUMED BASED OFF OF STANDARD DESIGN PRACTICES.



NOTES:
1. 1000 GALLON LOW PROFILE SEPTIC TANK (NON-TRAFFIC RATED).
2. ALL JOINTS SHALL BE SEALED WITH "RAMNECK" AND GROUTED WITH MASTERSEAL 590 (FORMERLY WATERPLUG), OR CONSEAL CS-55, APPLIED TO THE EXTERIOR OF THE TANK.
3. TRANSFER EXISTING PUMP, PLUMBING ASSEMBLY, LIFT CHAIN, FILTER, & FLOAT ASSEMBLY FROM 1500 GALLON TANK TO THE PROPOSED 1000 GALLON LIFT STATION.

FLOAT SETTINGS:
A = INLET TO ALARM = 21", VOLUME = 453 GAL.
B = ALARM TO ON = 5", VOLUME = 108 GAL.
C = ON TO OFF = 12", VOLUME = 260 GAL.
BASE TO PUMP OFF = 12", VOLUME = 260 GAL.

1/C3.0 LIFT STATION SECTION VIEW
N.T.S

DRAFT

DRAWING NO	C3.0
JOB NO	28-365
JOB TITLE	MILLER BATES SEPTIC EXPANSION
	1979 S BATES RD.
	TETON COUNTY, IDAHO
DRAWING TITLE	SEPTIC PLAN

DATE	12/1/20	REV
SURVEYED	GEB	
ENGINEERED	TEK	
DRAWN	TEK	-
CHECKED	-	-
APPROVED		

NELSON ENGINEERING
P.O. BOX 1598, JACKSON WYOMING (307) 733-2087

Quick Reference Guide **Advanced EnviroSeptic (AES)** **Idaho**

Sizing: All AES systems require adequate absorption area determined by dividing projected gallons per day flow rate by the pretreatment loading rate for the most restrictive soil type identified in the test holes. Within the absorption area there must be a minimum of 70 lineal feet of AES pipe for each of the first 3 bedrooms, and 25 lineal feet for each additional bedroom, in residential applications; or 1 lineal foot of AES pipe for each 2.14 gallons per day in non-residential applications.

- Gallons per day design flow: 250
- Loading rate: 0.6 gpd.
- Total square footage: 417
- Lineal feet of AES pipe: 210

Table 4-20. Secondary loading rates	
Soil Type	**Loading Rate**
A-1	1.7
A-2a	1.2
A-2b	1.0
B-1	0.8
B-2	0.6
C-1	0.4
C-2	0.3

Table 4-19-Effective soil depths	
Limiting Layer	**Effective Soil Depth**
Impermeable Layer	2
Very porous layer	1
Normal high groundwater	1
Seasonal high groundwater	1

Layout: AES can be installed in trenches 3-6 feet wide and absorption beds under the following conditions:

- 0-8% Slope: Trenches up to 6 feet wide with six feet of undisturbed earth between trenches. Absorption beds allowed if no room for trenches.
- 9-20% Slope: Trenches up to 6 feet wide, 6 feet between trenches.
- 20-45% Slope: Trenches limited to 3 feet wide, 8 feet between trenches, 30" depth. (Note: On steep slopes, the reduced loading rate results in same lineal footage as gravelless products with reduction.)

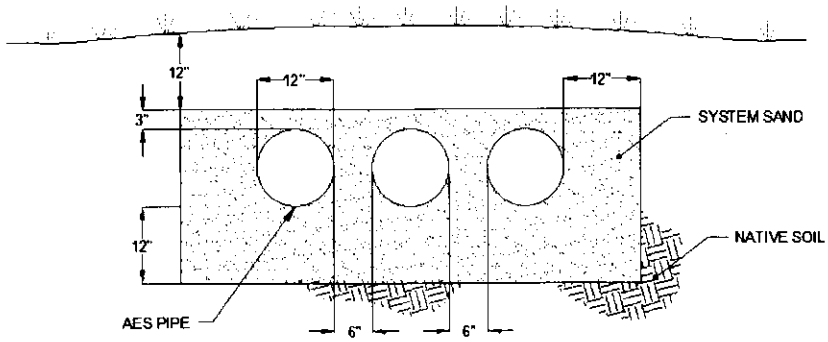
Presby Pipe Layout: Within each trench or bed, Presby Environmental requires the following spacing:

- 6 inches to 2 feet between AES pipe rows
- 1 to 3 feet between AES pipes and edge of trench or bed
- 1 foot of sand below AES pipe
- 1 foot of sand bedding AES pipe
- 3 inches of sand on top of AES pipes
- 1 foot of sand beyond end of AES pipes.

Unique requirements:

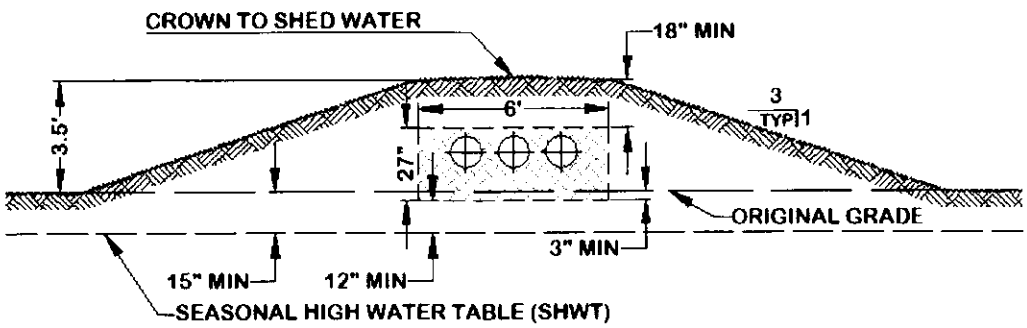
- Venting: Low and high vents required:
  - low vent at end of trench or bed;
  - High vent must be 10' higher than the low vent. Gravity systems can use venting through roof in structure. For pump systems, high vent at D-box.
- Pressurization **not** allowed. Size of drainfield limited to 1500 ft². Pump to Gravity.
- NA Capping fill: Minimum install depth 3" of sand into native material. Capping fill requirements in the Technical NA Guidance Manual must be met on cap (12" minimum cap for below grade, 18" for above grade).
- 2" rule: outlet of septic tank must be 2" above highest inlet of AES pipe.
- Minimum sizing 150 gpd.

AES in 6-foot-wide Trench



Requirement	Minimum Spec
System sand below conduit	12"
System sand between conduit rows	6"
System sand adjacent to outside conduit rows	12"
System sand on top of conduit rows	3"
Cover	12"

AES in Above-Grade Capping Fill System



AES in Below-Grade Capping Fill System	
Requirement	**Minimum Spec**
Bottom of system sand into natural soil	≥ 12" and < 24"
Overall AES system height	27"
Cannot meet TGM requirements (must be completely below natural soil grade)	

AES in Above-Grade Capping Fill System	
Requirement	**Minimum Spec**
Bottom of system sand into natural soil	≥ 3" and < 24"
Cap material	Selected fill material (See TGM)
Maximum site slope	12%
Soil cap extension	≥10' from edge of trench
Cover	18" from top of pipe