Septic System Permit

Flathead City-County Health Department

**Environmental Health Services** 

1035 1st Avenue West, Kalispell, MT 59901

Phone: (406) 751-8130 / Fax: (406) 751-8131

1. Legal Description: Assr. # 0007657

Tr. # 5AD

Sec 24

Twp 31

Rng 23

I of:

Permit Number 20- 9

Date Issued:

Site Eval Receipt: 20-5241

Zone: 2

Date Recorded: 3/16/2020

Block:

4.62 acres

Type:

Parcel Size:

Subdiv. Name: COS #: 2221-1

Name/EQ:

Property Address: 4395 HIGHWAY 93 W WHITEFISH MT 59937

2. Legal Property Owner

James & Lynette Haun

Address and Phone

4395 Hwv 93 W. Whitefish, MT 59937

3. Authorized for: New

**Existing Structure: Guest House** 

Trench Min. Length: 80 ft.

4. Structure: Proposed Structure (Multi Family (3+))

Specify: Three 1-BR Cabins

Trench Max. Depth: 36 in.

5. System Use: Shared (2)

#: 9 Other Permits: Trench Width: 3.0 ft. Lineal Footage: 400 ft. of

7. Water Supply: Multi User (3-9)

6. Occupancy Type: Occ. No.

**Public Supply #:** 

Standard Rock & Pipe

8. Nitrates:

Source: WELL

System Type: PUMP

9. Soil Type: Silty clay loam

How Determined: <u>T.H.</u>

10. Depth to Groundwater Table/Bedrock: > 84 in.

How Determined: T.H.

11. Classification: 2

Septic Tank Size (gal-min): 2000/500 Absorption Area (sq ft): 1200

Permit Fee: \$415.00

12. Drainfield Orientation: North-South

13. Designed By: Glacier Precast (Dated 6/10/2020)

13a, Special Notes: 3 People Per Cabin. 1667/832 Tank Size

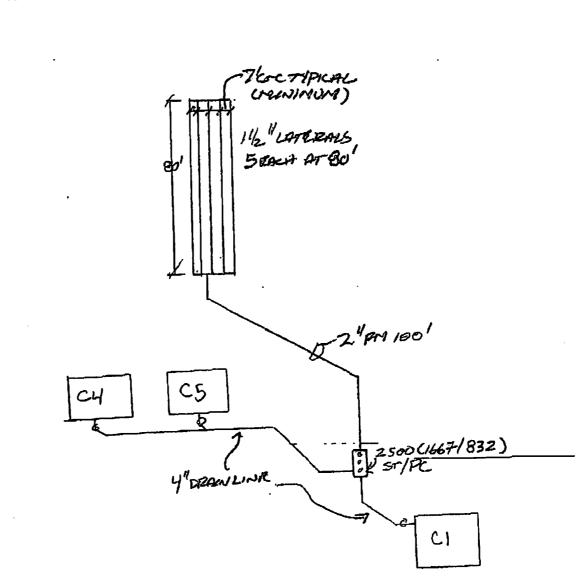
13b. Standard Requirements: This system shall be installed in accordance with applicable Flathead City/County Health Department, (FCCHD), regulations, construction standards and the approved design. Any changes from the approved design must be approved by the designer and FCCHD prior to modification of the project. The installer and a representative from FCCHD must be present for the inspection and clear-water pump or siphon test. System shall not be covered or backfilled until specifically authorized by FCCHD, Approved design report and layout sketch are attached.

6/18/2020 Date

Kate Cassidy, R.S.

Signature Authorizing Approval of Permit

\* These requirements establish the MINIMUM STANDARDS for this septic system installation. The permit will be voided and declared invalid if the system is not Installed within 12 months. The issuance of this permit authorizes construction of the septic system and requires the installation comply with the FLATHEAD COUNTY REGULATIONS FOR SEWAGE TREATMENT SYSTEMS (FCRSTS). The permit will be void if the system is not utilized as intended within three (3) years of installation. The property owner is responsible for operating and maintaining the system in accordance with FCRSTS. Failure to comply with these regulations may result in revocation of this permit. This permit does not constitute a design and does not bind or obligate this office to guarantee the performance of the system. This permit shall be given to the installer prior to construction. The owner shall give 48 hours advance notice for the required inspection of the system. Please call 751-8130.



0 = CLEAN OUT

## **PUMP DESIGN WORKSHEET - 1/18/19**

						i	Recd. Date	: Stamp.(F	CCHU)	
Owner:	Haun	_	Designe	Glacier Pred	ast - JS					
Address:	4395 Hwy 93 West, White		Tel:	406-752-716						
Legal :	Tr 5AD 24-31-23	_	Installer	Eagle River	Excavation	l .				
-		_	Tel:	406-871-983	36					
	lata Required									
Orifice Diameter (OD)5/32_inch			(minimum 1/8th inch)							
Orifice Spacing (OS) 5 ft			on centers (maximum 5 feet)							
Pressure head, first crifice (HO) 5 ft				(> 2.3 ft for 3/16 in. or larger orifices, > 5 ft for orifices< 3/16 in.) (from orifice flow chart)						
	scharge Rale (QO)	0.66	gal/min	•	•					
_	Force Main (LFM)			LFM.		ft. inches				
	of Force Main	DFM.		inches ft.						
Pump Chamber Low-Level (pump "off") elevation				E1.		it. ft.				
	of Upper Lateral			E2 QS/		ıı. gal / day	Lovel Tw	o treatmen	ŧ	
	vage Volume			QL.		gpd/sq.ft.	x for yes	o nounter	•	
Allowable	Soil Loading Rate	DOCK (	he for inc			HAMBER	V 101 102			
	Trench type:		x for yes 2 or 3 ft	<u> </u>		ctive width	<del>,</del>			
	Trench width:	Seleci	2 U/ 3 II		21101	cuvo masi				
Design o	alculations	/nn #1	Rock	1200		Chamber	900			
	Required infiltration Area	(sq.it.)	RUCK	400		J. 1011111111111111111111111111111111111	#DIV/01			
	Total length of laterals		=	400	,	•				
Alban.	of Orifican	NO		LL/OS	80					
	of Orifices	Qt		QO x NO		gal/min				
	charge Rate in Fricton Factor	· ·	'	F		fV100 ft				
	in Headloss	(F x LFM	100)	•	6.03					
		HG		E2-E1	-2					
	ı Head (gravity) namic Head (HG + HFM +		_		9.03					
TOTAL DY	Idino fictio (fice final)	,,				•				
Require	d Dumn									
		53	gal/min	against a l	head of	9	feet			
Capabie	of pumping at least	Pump	_ ~	Ashland	Model	EP 45				
		( 0///p			•					
Actual D	Prainfield Design:				L1	L2	<u>L3</u>	L4	<u>L5</u>	L6
OCTUAL N	Number of Latera	ıls 5	Length	each Latera	80	80	80	80	80	
	710111001 01 001010			elevation	98	98	98	98	98	
					L7	L8	L9	L10	L11	L12
Control	Float Settings		•	Length						
<del>GOIM GI</del>	Dose Volume			Elevation						
	Laterals-									
	Pipe type/cla	is Sch 40	Int. Dia.	1.61	in.	Pipe Vol.	0.106	gal/ft		
	Total length	of laterals (	Ī)	400	TH.					
	Total vol in la			42.30	<u> </u>					
	•									
	Forcemain									
	Pipe type/cla	as Sch 40	Int. Dia	2.067	<u>Z</u> in.	Pipe Vol.	0.174	gel/ ft		
	Total length			100	) ft					
	Total vol. in forcemain			17.43	gal, (VFN	۸)				
	TOTAL TOTAL									
	(5x VL) + VFM =	21	2 +	1	-		gal			
	Pump Chamber Volume	22	0 gal / ft	500 gallo	500 gallon dose tank does not have enough reserve					
	MinimumDose Volume			9 gal	Use a 25	00 with 160	67/832 spli	t,	- 44 4	
	Upper (pump on) float s			4 fl (D/V)	=	12	in. above	"pump off	" iloat	
	Control & Alarm (make		SJE				•			

PLEASE PROVIDE A SKETCH OF SYSTEM LAYOUT AND PROFILE ON BACK OF THIS SHEET