LINCOLN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH
WASTEWATER TREATMENT AND DISPOSAL SYSTEM PERMIT

Issue Date: 07/24/2025 Expiration Date: 07/23/2026 Permit#25-7486

Property Owner: Eric Maule

Mailing Address: P.O. Box 787, Evergreen, CO 80437

Installer: Cory Burk License #: 213

Approved Work: (Check One) ☐ New Installation ☒ Existing System

☒ Replace Drainfield ☒ Replace Tank ☐ Extension

Describe: Installation of new elevated sand mound system for 3 Bedroom House to replace unpermitted system.

Legal: GLEN LAKE TRACTS, S27, T36 N, R26 W, LOT 4-5, ACRES 0.5795

Property Address: 674 Glen Lake Drive, Eureka, MT 59917 Assessment Code: 7486

DEQ COSA: E.Q.# Date:

Approved Design Criteria: Installation of new elevated sand mound system for 3 Bedroom House to replace unpermitted system. The Variance and Road Department Approval are required to be recorded with Clerk and Recorder.

# of Bedrooms: 3 Septic Tank Size: 1000/500 Trench Width:

ESM: 21.9 X 55.4 See Design Length of Laterals: 3 @ 44' Trench Depth:

SYSTEM MUST INCLUDE INSTALLATION OF EFFLUENT FILTER AT SEPTIC TANK OUTLET!!

Special Instructions: Install system according to the lot layout, the Lincoln County Wastewater Treatment and Disposal Regulation, Circular DEQ-4, and COSA(If Applies). It is the installer's responsibility to ensure that all required horizontal setbacks are met. CHANGES MUST BE PRE-AUTHORIZED BY THE DEPARTMENT.

Issued By: *Robin Blumberg, RS*

NOTICE: The Department must be notified at least 3 business days (72 hours) prior to backfilling the system. Call 406-283-2442. Any system not inspected by the Department or its designated representative prior to closure is an illegal installation in violation of Lincoln County Health Board Regulation Ch. 3. Illegal installations may result in fines and/or requirements to remove or reconstruct the system.

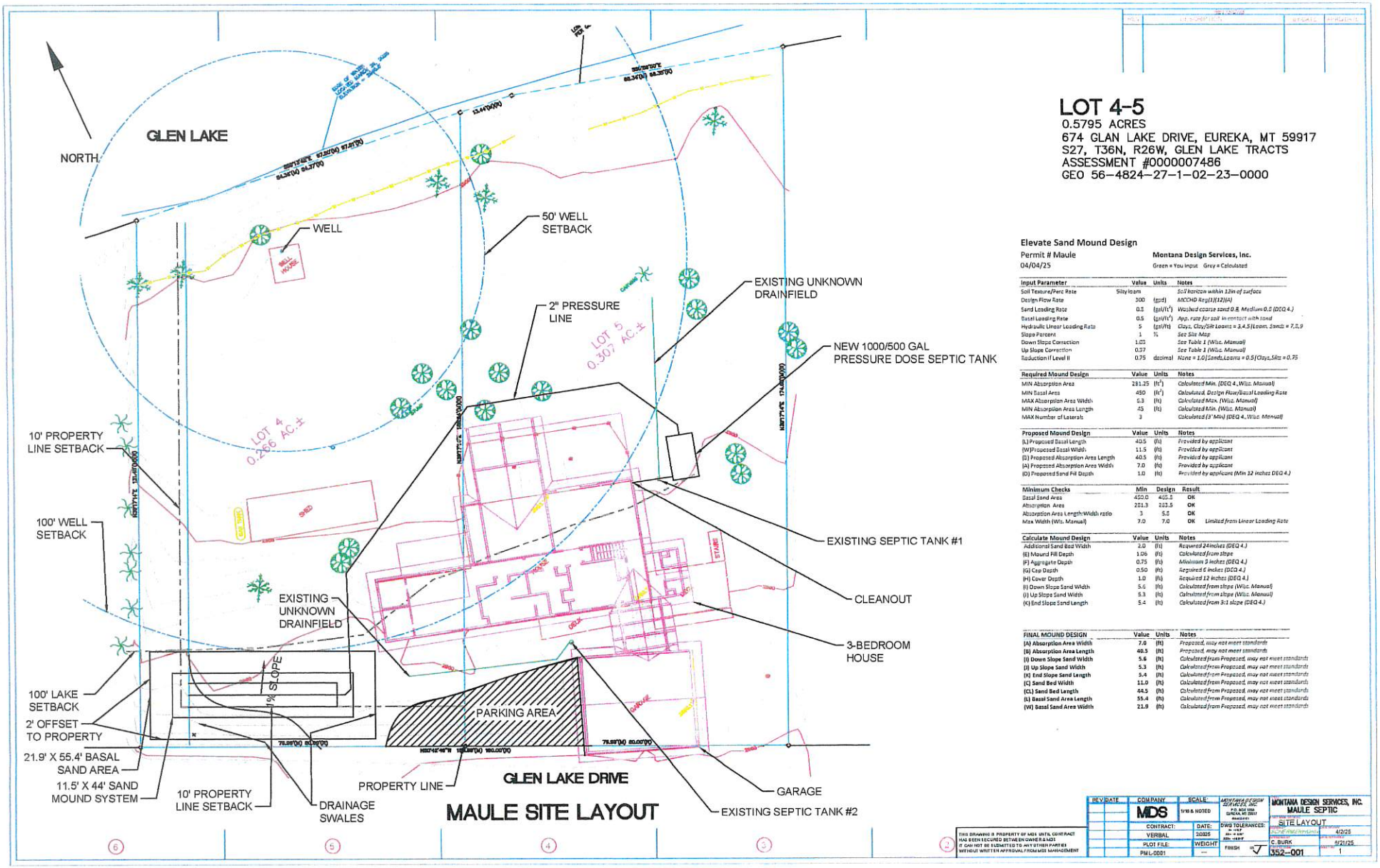
Closure Statement:

This system is in compliance with the approved design criteria and Lincoln County's Wastewater Treatment and Disposal Regulation.

Signed: _____ *Date:* _____

This permit is not finalized until the system is inspected and the closure statement is signed.

This permit is not a guarantee that the system will function properly for a prescribed period of time.



LOT 4-5

0.5795 ACRES
674 GLAN LAKE DRIVE, EUREKA, MT 59917
S27, T36N, R26W, GLEN LAKE TRACTS
ASSESSMENT #0000007486
GEO 56-4824-27-1-02-23-0000

Elevate Sand Mound Design

Permit # Maule — **Montana Design Services, Inc.**
04/04/25 — Green = You Input Grey = Calculated

Input Parameter	Value	Units	Notes
Soil Texture/Perc Rate	Silty loam		Soil horizon within 12in of surface
Design Flow Rate	300	(gpd)	MCDD Reg(13)(12)(A)
Sand Loading Rate	0.8	(gal/ft²)	Washed coarse sand 0.8, Medium 0.6 (DEQ 4.)
Basal Loading Rate	0.6	(gal/ft²)	App. rate for soil in contact with sand
Hydraulic Linear Loading Rate	5	(gal/ft)	Clays, Clay/Silt Loams = 3,4,5 (Loam, Sandy = 7,8,9
Slope Percent	1	%	See Site Map
Down Slope Correction	1.02		See Table 1 (Wisc. Manual)
Up Slope Correction	0.97		See Table 1 (Wisc. Manual)
Reduction if Level II	0.75	decimal	None = 1.0 | Sands, Loams = 0.5 | Clays, Silts = 0.75

Required Mound Design	Value	Units	Notes
MIN Absorption Area	281.25	(ft²)	Calculated Min. (DEQ 4.,Wisc. Manual)
MIN Basal Area	450	(ft²)	Calculated, Design Flow/Basal Loading Rate
MAX Absorption Area Width	5.3	(ft)	Calculated Max. (Wisc. Manual)
MIN Absorption Area Length	45	(ft)	Calculated Min. (Wisc. Manual)
MAX Number of Laterals	3		Calculated (3' Min) (DEQ 4.,Wisc. Manual)

Proposed Mound Design	Value	Units	Notes
(L) Proposed Basal Length	40.5	(ft)	Provided by applicant
(W)Proposed Basal Width	11.5	(ft)	Provided by applicant
(S) Proposed Absorption Area Length	40.5	(ft)	Provided by applicant
(A) Proposed Absorption Area Width	7.0	(ft)	Provided by applicant
(D) Proposed Sand Fill Depth	1.0	(ft)	Provided by applicant (Min 12 inches DEQ 4.)

Minimum Checks	Min	Design	Result	
Basal Sand Area	450.0	465.8	OK	
Absorption Area	281.3	283.5	OK	
Absorption Area Length:Width ratio	3	5.5	OK	
Max Width (Wis. Manual)	7.0	7.0	OK	Limited from Linear Loading Rate

Calculate Mound Design	Value	Units	Notes
Additional Sand Bed Width	2.0	(ft)	Required 24inches (DEQ 4.)
(G) Mound Fill Depth	1.06	(ft)	Calculated from Slope
(F) Aggregate Depth	0.75	(ft)	Minimum 9 inches (DEQ 4.)
(G) Cap Depth	0.50	(ft)	Required 6 inches (DEQ 4.)
(H) Cover Depth	1.0	(ft)	Required 12 inches (DEQ 4.)
(I) Down Slope Sand Width	5.6	(ft)	Calculated from slope (Wisc. Manual)
(J) Up Slope Sand Width	5.3	(ft)	Calculated from slope (Wisc. Manual)
(K) End Slope Sand Length	5.4	(ft)	Calculated from 3:1 slope (DEQ 4.)

FINAL MOUND DESIGN	Value	Units	Notes
(A) Absorption Area Width	7.0	(ft)	Proposed, may not meet standards
(S) Absorption Area Length	40.5	(ft)	Proposed, may not meet standards
(I) Down Slope Sand Width	5.6	(ft)	Calculated from Proposed, may not meet standards
(J) Up Slope Sand Width	5.3	(ft)	Calculated from Proposed, may not meet standards
(K) End Slope Sand Length	5.4	(ft)	Calculated from Proposed, may not meet standards
(C) Sand Bed Width	11.0	(ft)	Calculated from Proposed, may not meet standards
(CL) Sand Bed Length	44.5	(ft)	Calculated from Proposed, may not meet standards
(L) Basal Sand Area Length	55.4	(ft)	Calculated from Proposed, may not meet standards
(W) Basal Sand Area Width	21.9	(ft)	Calculated from Proposed, may not meet standards

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REV	DATE	COMPANY	SCALE:	MONTANA DESIGN SERVICES, INC.
		MDS	1/16 & NOTED	MONTANA DESIGN SERVICES, INC. P.O. BOX 1255 EUREKA, MT 59917
		CONTRACT: VERBAL	DATE: 2025	DWG TOLERANCES: .xx = ± .01 .xxx = ± .005 .xxx = ± 0.5°
		PLOT FILE: PM-0001	WEIGHT: ---	FINISH

MONTANA DESIGN SERVICES, INC.
MAULE SEPTIC
SITE LAYOUT
SCALE AS NOTED — 4/2/25
DRAWN BY: C. BURK — 4/21/25
352-001 — 1