

CULVERT SIZING CALCULATIONS

24" diameter, 40' long, corrugated metal pipe

Inlet bottom elevation: 6232 ft/msl

Outlet bottom elevation: 6230 ft/msl

Slope 5%

Set units: m mm ft in		Results	
Pipe diameter, d_0	24	Flow, Q	29 8884 cfs
Manning roughness, n ?	.022	Velocity, v	9.5141 ft/sec
Pressure slope (possibly ? equal to pipe slope), S_0	5	Velocity head, h_v	1.4068 ft
Percent of (or ratio to) full depth (100% or 1 if flowing full)	100	Flow area	3.1416 ft ²
		Wetted perimeter	6.2831 ft
		Hydraulic radius	0.5000 ft
		Top width, T	0.0000 ft
		Froude number, F	0.00
		Shear stress (tractive force), tau	6.2438 psf



25-Year, 1-Hour Storm Event

Area drained, approx. 77 acres

Rational method formula: Velocity = Coefficient * Intensity / Area

29.8884 cfs / .4 coefficient / .8 inches per hour = 93.4 acres max area drained by proposed 24" culvert



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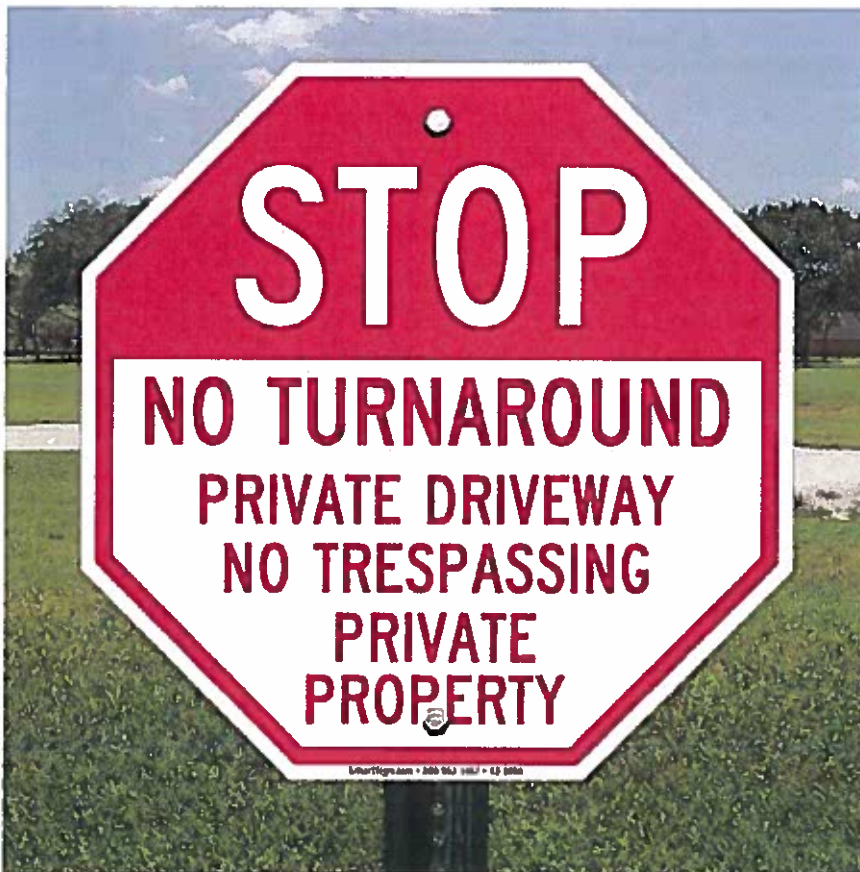
SEP 20 2018

BLAINE COUNTY
LAND USE & BUILDING SERVICES

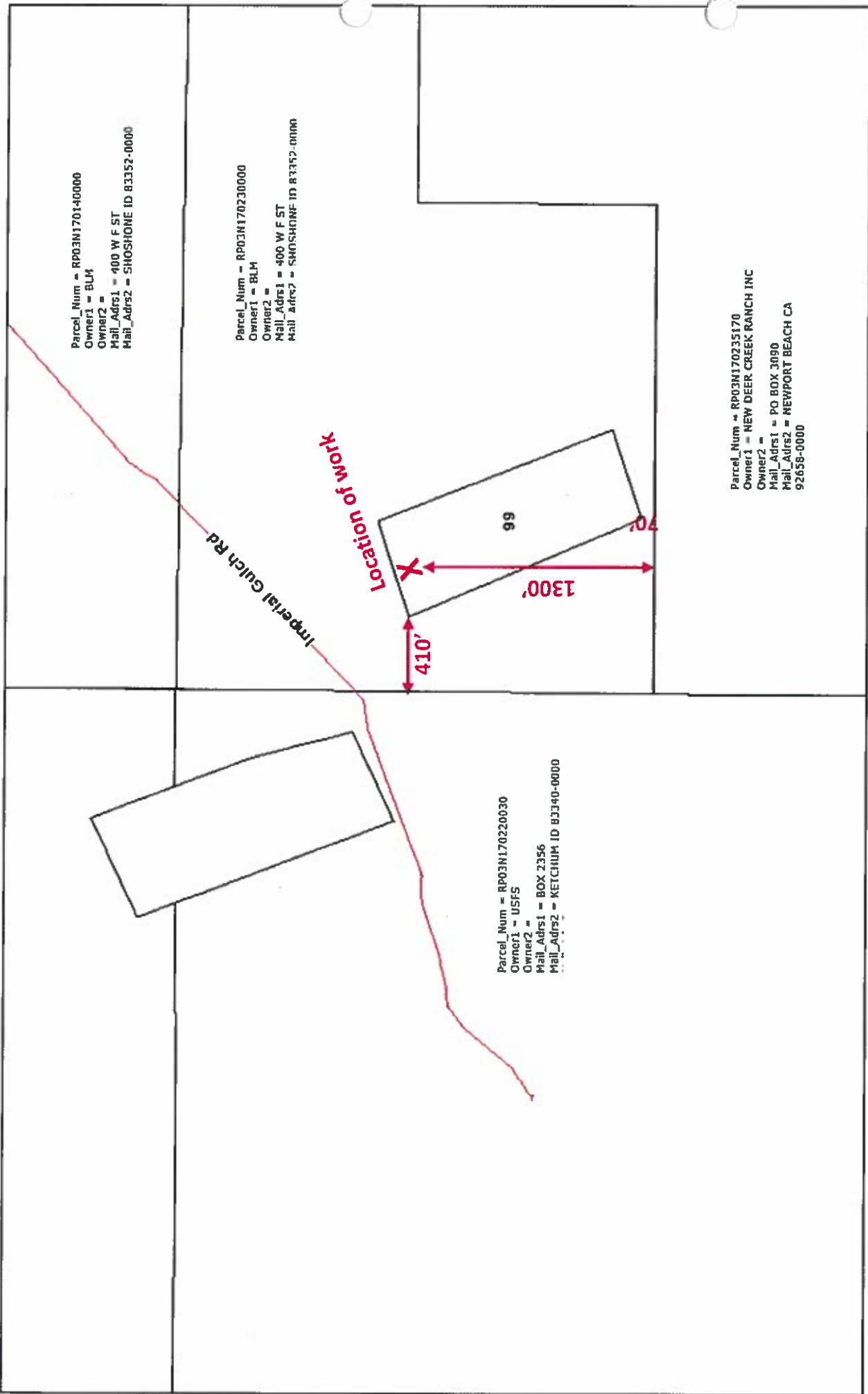
4.16-ft x 11.75-ft Steel Farm Containment Fence Gate
(Lowes)



No Trespassing Sign, 18" x 18"
(MyParkingSign.Com)



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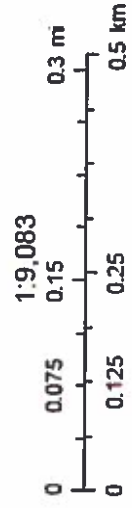


September 13, 2018

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SEP 20 2013

BLAINE COUNTY
 LAND USE & BUILDING SERVICES



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RIGHT-OF-WAY GRANT/TEMPORARY USE PERMIT

Issuing Office

Shoshone District Office

Serial Number

IDI-27791

1. A (right-of-way) ~~PERMIT~~ is hereby granted pursuant to:

- a. Title V of the Federal Land Policy and Management Act of October 21, 1976 (90 Stat. 2776; 43 U.S.C. 1761);
- b. Section 28 of the Mineral Leasing Act of 1920, as amended (30 U.S.C. 185);
- c. Other (describe) _____

2. Nature of Interest:

a. By this instrument, the holder Mountain Valley Construction, c/o Brian Saksa, Box 299, Bellevue, ID 83313 receives a right to construct, operate, maintain, and terminate a n access road on public lands (or Federal land for MLA Rights-of-Way) described as follows:

T. 3N., R. 17E., B.M., Blaine County, Idaho
Section 14: Lot 1, SE½SW½
Section 23: Lot 1

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- b. The right-of-way ~~PERMIT~~ area granted herein is 40 feet wide, 4224 feet long and contains 3.9 acres, more or less. If a site type facility, the facility contains _____ acres.
- c. This instrument shall terminate on December 31, 2011, ~~XXXXXX~~ unless, prior thereto, it is relinquished, abandoned, terminated, or modified pursuant to the terms and conditions of this instrument or of any applicable Federal law or regulation.
- d. This instrument may may not be renewed. If renewed, the right-of-way ~~PERMIT~~ shall be subject to the regulations existing at the time of renewal and any other terms and conditions that the authorized officer deems necessary to protect the public interest.
- e. Notwithstanding the expiration of this instrument or any renewal thereof, early relinquishment, abandonment, or termination, the provisions of this instrument, to the extent applicable, shall continue in effect and shall be binding on the holder, its successors, or assigns, until they have fully satisfied the obligations and/or liabilities accruing herein before or on account of the expiration, or prior termination, of the grant.

3. Rental.

For and in consideration of the rights granted, the holder agrees to pay the Bureau of Land Management fair market value rental as determined by the authorized officer unless specifically exempted from such payment by regulation. Provided, however, that the rental may be adjusted by the authorized officer, whenever necessary, to reflect changes in the fair market rental value as determined by the application of sound business management principles, and so far as practicable and feasible, in accordance with comparable commercial practices.

4. Terms and Conditions:

- a. This grant of ~~right~~ permit is issued subject to the holder's compliance with all applicable regulations contained in Title 43 Code of Federal Regulations parts 2800 and 2880.
- b. Upon grant termination by the authorized officer, all improvements shall be removed from the public lands within 90 days, or otherwise disposed of as provided in paragraph (4)(d) or as directed by the authorized officer.
- c. Each grant issued pursuant to the authority of paragraph (1)(a) for a term of 20 years or more shall, at a minimum, be reviewed by the authorized officer at the end of the 20th year and at regular intervals thereafter not to exceed 10 years. Provided, however, that a right-of-way or permit granted herein may be reviewed at any time deemed necessary by the authorized officer.
- d. The stipulations, plans, maps, or designs set forth in Exhibit(s) A, B & C, dated A & B-06-01-91, C-12/20/90, attached hereto, are incorporated into and made a part of this grant instrument as fully and effectively as if they were set forth herein in their entirety.
- e. Failure of the holder to comply with applicable law or any provision of this right-of way grant or permit shall constitute grounds for suspension or termination thereof.
- f. The holder shall perform all operations in a good and workmanlike manner so as to ensure protection of the environment and the health and safety of the public.

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IN WITNESS WHEREOF, The undersigned agrees to the terms and conditions of this right-of-way grant ~~XXXXXX~~.

* Brian R. Simon / Stansfield WA
 (Signature of Holder)

Steven Felts
 (Signature of Authorized Officer)

* Co-owner / co owner
 (Title)

Area Manager
 (Title)

* June 24, 1990
 (Date)

7/3/91
 (Effective Date of Grant)