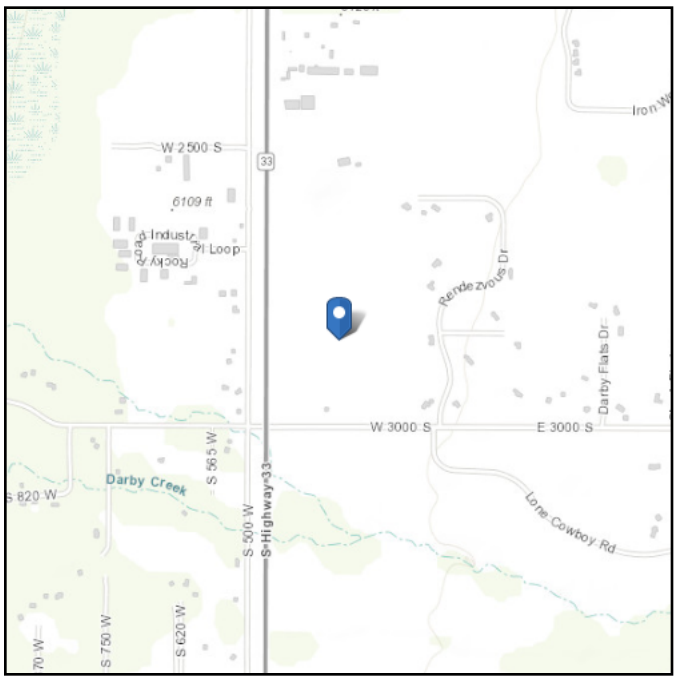
ASCE Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-22	**Latitude:**	43.68173
Risk Category:	II	**Longitude:**	-111.107894
Soil Class:	D - Stiff Soil	**Elevation:**	6137.6138082999605 ft (NAVD 88)



Seismic

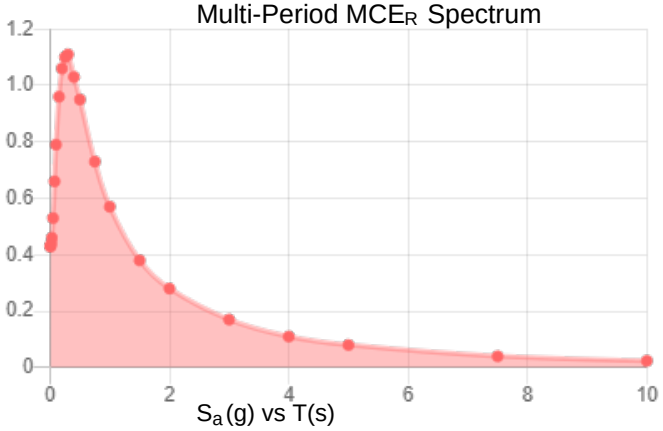
Site Soil Class: D - Stiff Soil

Results:

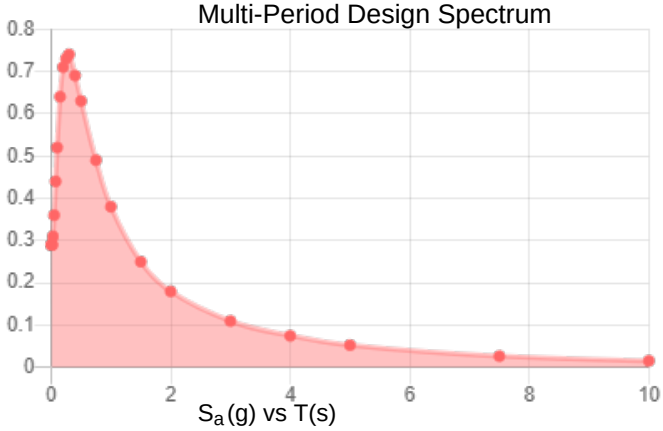
PGA_M :	0.39	T_L :	8
S_{MS} :	0.99	S_S :	0.77
S_{M1} :	0.57	S_1 :	0.22
S_{DS} :	0.66	V_{S30} :	260
S_{D1} :	0.38		

Seismic Design Category: D

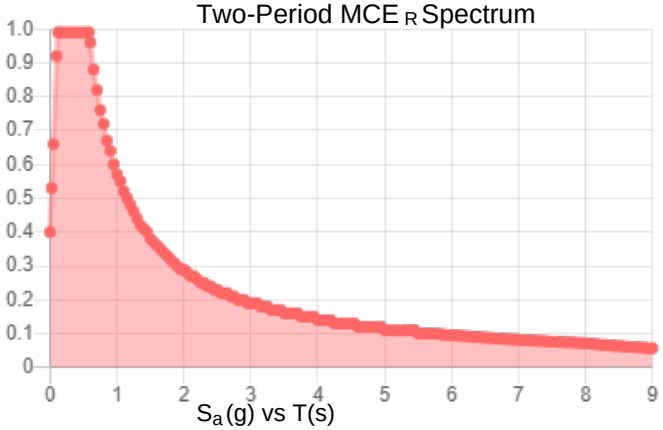
Multi-Period MCE_R Spectrum



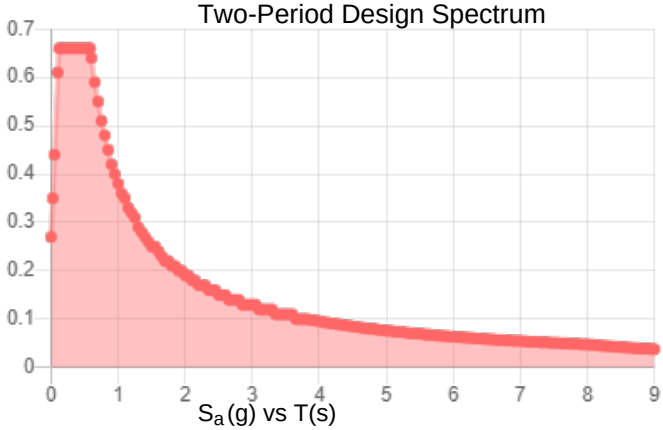
Multi-Period Design Spectrum



Two-Period MCE_R Spectrum



Two-Period Design Spectrum



MCE_R Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Data Accessed: **Wed Feb 21 2024**

Date Source:
USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

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USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error.
USGS web services are now operational so this tool should work as expected.

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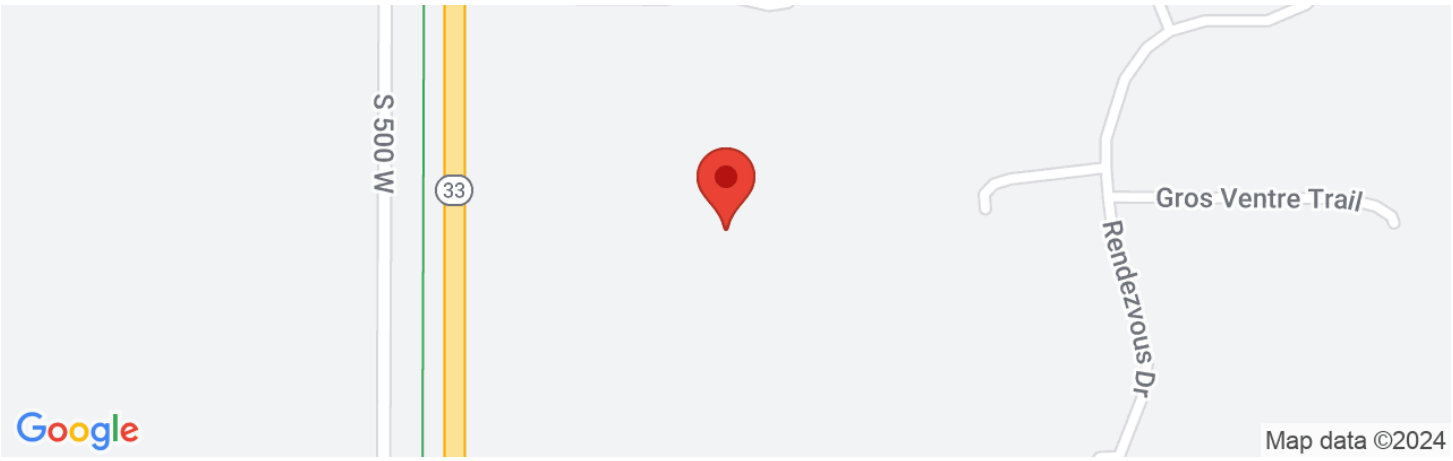
Latitude, Longitude: 43.68173, -111.107894



Date	2/21/2024, 5:32:14 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Default (See Section 11.4.3)

Type	Value	Description
S_S	0.707	MCE_R ground motion. (for 0.2 second period)
S_1	0.229	MCE_R ground motion. (for 1.0s period)
S_{MS}	0.873	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.582	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1.234	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.309	MCE_G peak ground acceleration
F_{PGA}	1.291	Site amplification factor at PGA
PGA_M	0.399	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	0.707	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	0.777	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.229	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.249	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)

Type	Value	Description
PGA_{UH}	0.309	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.91	Mapped value of the risk coefficient at short periods
C_{R1}	0.92	Mapped value of the risk coefficient at a period of 1 s
C_V	1.154	Vertical coefficient

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