

**MISSOURI-MADISON RIVER FUND RECREATION PROJECT  
FY2023 GRANT APPLICATION FORM**

Project Name: Lake Site Solar Arrays

Reservoir or River Segment: Hauser - Holter County(ies) Lewis and Clark

Site Name (or project location): White Sandy Campground, Devil's Elbow Campground, and Holter Lake Campground

Applicant Name: Grady Anderson

Position and Agency: Civil Engineer, Bureau of Land Management

Telephone: 406-329-1021

Email: ganderson@blm.gov

Project Sponsor Name: Chris McGrath

Position and Agency: Supervisory Outdoor Recreation Planner, BLM

Telephone: 406-490-9004

Email: [cmcgrath@blm.gov](mailto:cmcgrath@blm.gov)

**Project Cost Breakdown and Financial Request:**

Complete the financial section below by providing total project cost (to the nearest dollar), contributions by applicant and cooperators, request for NorthWestern Energy match of agency funds (see detailed instruction), and River Fund Grant request. Document in-kind contributions by public agencies for determination of NorthWestern Energy match request. A description of funding sources and in-kind contributions should be included in the Project Description.

Total project cost:	<u>\$133,000</u>	
Applicant Contributions – cash	<u>\$</u>	
	<u>\$ 12,000</u>	
Applicant Contributions – value of in-kind:	<u>work months</u>	
Other Contributions – Please list by source:		
	<u>\$</u>	
	<u>\$</u>	
	<u>\$</u>	
	<u>\$</u>	Percentage of Total Project Cost:
Total Applicant and Other Contributions:	<u>\$12,000</u>	<u>9%</u>
NorthWestern Energy Match Request:	<u>\$12,000</u>	<u>9%</u>
River Fund Grant Request:	<u>\$109,000</u>	<u>82%</u>
Proposed Project Implementation Period:	<u>FY 2023</u>	

**MISSOURI-MADISON RIVER FUND RECREATION PROJECT  
GRANT APPLICATION FORM – FY2022**

1. Has this project been previously submitted for funding consideration by the River Fund Board, either as a separate project or part of another project?     Yes     No

*If yes, please identify which years the application was submitted and, if the project was previously funded, list the amount funded by year.*

2. Is the proposed project at one of the Project 2188 license sites identified in the Missouri-Madison MOU and listed on page A2-2 of the Comprehensive Recreation Plan?     Yes     No

3. **Project Description:** Provide a description of the proposed project. Be sure to include specific project elements that are planned, and any associated cost detail.

▶ The proposed project is to install three grid-tied solar arrays at BLM facilities along Hauser Lake. The project would involve contracting labor, equipment, and materials to construct gride tied arrays focused on offsetting the current energy usage with clean, renewable energy sources. The proposed sites include White Sandy Campground, Devil’s Elbow Campground, and Holter Lake Campground. Each site is composed of multiple BLM administrative buildings capable of hosting roof-mounted or ground-mounted solar arrays. Project work includes furnishing materials and installing the arrays in accordance with Northwestern Energy’s specifications and the National Electrical Code. The BLM would provide project design and contract administration.

4. **Cultural Resource Management:** Cultural Resource Management (CRM) requirements for any activity related to this Project must be completed and documented to NorthWestern Energy as a condition of awarded River Fund grant funds or NorthWestern Energy matching funds. Grant and matching funds may not be used for any land-disturbing activity, or the modification, renovation, or removal of any buildings or structures until the CRM consultation process has been completed. Agency applicants must submit a copy of the proposed project to a designated Cultural Resource Specialist for their agency. Private parties or non-governmental organizations are encouraged to submit a copy of their proposed project to a CRM consultant they may have employed. Private parties and non-governmental organizations may also contact the NorthWestern Energy representative for further information or assistance. Applications submitted without this section completed will be held without any action until the information has been submitted.

Summarize how you will complete requirements for Cultural Resource Management.

▶ The BLM would submit a copy of the proposed project to our cultural resource specialist for review and approval. No cultural concerns are expected as these sites have been previously cleared for BLM campground construction.

5. **Scoring Criteria.** Respond to the following Scoring Criteria in no more than two (2) additional written pages. Put answers in the cell after ▶.

*5.1 Project is for operation and maintenance of an existing recreation site or an existing Project 2188 license site. Describe how the project would support O&M needs at an existing recreation site that are over and above day-to-day site maintenance. Needs may include measures to open a site for public use as well as minor repair; facility upgrade, reconstruction, and replacement; and major site rehabilitation.*

▶ Grid-tied solar arrays at these sites would represent a facility upgrade and are in-line with the Department of Interior’s mission of modernizing our organization and infrastructure to mitigate climate change. These arrays would also be utilized to promote public awareness of DOI climate objectives and clean energy initiatives.


- 5.2 Project involves collaboration with other agencies or organizations. Identify project partners other than NorthWestern Energy or River Fund, if any, and describe their participation. Document all funding sources and all in-kind support and services to a project, because all are sources of partnerships and in-kind contributions from public agencies qualify for calculation of NorthWestern Energy matching funds. If there are no project partners, explain why.
- ▶ Project partners were not sought after for this project. In-kind contributions from the BLM would include project design, contract administration, and project oversight.
- 5.3 Project provides a benefit to public recreation in the Project Area and addresses specific issues and goals of the Missouri-Madison Comprehensive Recreation Plan (CRP). Identify how the project provides a benefit to public recreation. Describe how specific issues and goals in Chapter 2-1 of the CRP would be supported.
- ▶ Providing clean energy sources and creating awareness of clean energy consumption minimizes pollution of the natural environment, resulting in better air and water quality, healthier habitats for wildlife, and an improved recreation experience. The affects of fossil fuel driven climate change are also cause for concern and affect recreationalists directly as water sources become warmer, affecting fish populations, and inducing water scarcity issues, which are becoming more severe year after year.
- 5.4 Project responds to a clearly identified need. Describe and document the need for this project and how the project would address that need. Cite specific sources, as possible, to establish need and support the project. Discuss consequences if the funding request is unsuccessful. For a new construction or acquisition project, identify how post-project, long-term costs (such as site maintenance and management) will be provided.
- ▶ The White House has pushed an agenda to create a carbon pollution-free power sector by 2035. The effects of human caused climate change include water shortages, decreased wildlife and fish habitat, longer wildfire seasons, polluted air and water sources, and overall diminished recreational experiences. According to Bureau of Land Management’s data tracking software, Asset Planner, the Western Montana District facilities produced approximately 103 Tons of CO<sub>2</sub> during the year 2020. If the funding request is unsuccessful, we’ll continue consuming energy from fossil-fuels sources and emit similar amounts of CO<sub>2</sub> to the atmosphere, in turn, directly affecting the experience of these pristine lake sites.
- 5.5 Project design options have been considered, estimated, and a preferred design selected. Well-designed projects reduce occurrences of budgetary overages, design changes, and additional complications. Discuss the current design phase for this project and include cost estimates.
- ▶ Other designs and renewable energy sources were considered. Based on economical advantages, power output, and aesthetics, solar energy was deemed the most fitting for these sites.
- 5.6 Project supports or protects other resources and is consistent with or supports resource plans in the Project Area. In addition to project-related benefits under #3 above, describe how this project will protect resource values (such as public access, water quality, fisheries, wildlife, habitats, and cultural resources) and support other resource plans, including Project 2188 License plans and land use and land management plans in place in the Corridor.
- ▶ As stated above, water quality, fisheries, wildlife, and habitats are all indirectly affected by fossil fuel consumption. Offsetting energy consumption with clean energies and improving energy source awareness is vital to maintaining the pristineness of these public lands along the Missouri River Corridor.

UNITED STATES DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT  
 CONTRACT ESTIMATE SUMMARY

Contract/Project Name Lakesite Solar Arrays	Estimator G. Anderson	Date 9/7/2022
Project Location Butte Field Office	Contract Number	
Project Description  Installing Grid-Tied Holter and Hauser Lakesite Recreation Areas at Devil's Elbow, White Sandy, and Holter Lake Camopground		


<u>Item</u>	<u>Pay Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost Amount</u>
<u>1</u>	1	Devil's Elbow Solar	EA	1	\$64,882.50	\$ 64,882.50
<u>2</u>	2	White Sandy Solar	EA	1	\$38,106.75	\$ 38,106.75
<u>3</u>	3	Holter Lake Solar	EA	1	\$29,836.50	\$ 29,836.50
<b>Total Estimated Cost = \$</b>						<b><u>132,825.75</u></b>

6. Insert map(s) showing the location of the proposed project, drawings and design work related to the project, and a reasonable number of photos (as available)



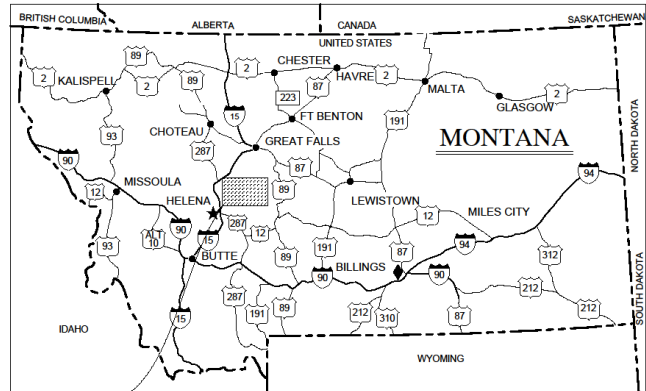
**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

**LAKEсите SOLAR ARRAYS**  
LEWIS AND CLARK COUNTY  
BUTTE FIELD OFFICE

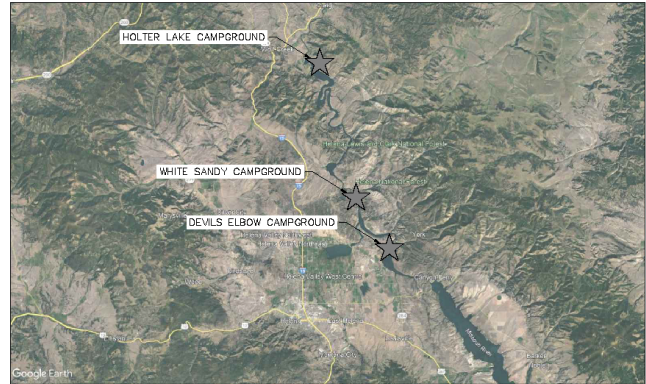


**GENERAL ENGINEER'S NOTES**

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
4. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERROR AND OMISSION. CONTRACTOR SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
5. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING PUBLIC OR PRIVATE UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48 HOURS IN ADVANCE FOR BLUE STAKE (1-800-STATE-IT) PRIOR TO ANY EXCAVATION.
6. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER WITH DISCREPANCY.
7. THE CONTRACTOR IS TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH THE FINAL SITE PLAN PRIOR TO CONSTRUCTION AND CONTACT ENGINEER WITH ANY DISCREPANCIES.
8. COORDINATION BETWEEN ALL PARTIES INVOLVED IS ESSENTIAL TO THE CONTRACT.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS, AS THE SITE MAY BE LOCATED IN AN AREA WITH EXTREME WEATHER CONDITIONS OR WITHIN A FLOOD PRONE AREA.



**STATE REFERENCE MAP**  
(N.T.S.)



**VICINITY MAP**  
(N.T.S.)


DRAWING INDEX		
C1	COVER SHEET	
C2	DEVIL'S ELBOW SOLAR	
C3	WHITE SANDY SOLAR	
C4	HOLTER LAKE SOLAR	

ESTIMATED QUANTITIES		
ITEM	QUANTITY	UNIT
GRID-TIED SOLAR ARRAYS	3	EA

<sup>#1</sup> EARTHWORK QUANTITIES ARE "IN PLACE" ESTIMATES. NO SHRINK OR SWELL IS ASSUMED. NO GROUND LOSS IS INCLUDED.  
<sup>#2</sup> THE QUANTITIES ARE AN ESTIMATE OF THE ENGINEER. THE CONTRACTOR SHALL MAKE THEIR OWN INDEPENDENT ESTIMATE OF QUANTITIES AND BID THEREON.

**DIRECTIONS TO DEVIL'S ELBOW CAMPGROUND:**  
FROM HELENA, DRIVE EAST ON YORK ROAD FOR 22 MILES. THE CAMPGROUND AND DAY USE AREA WILL BE LOCATED ON THE RIGHT-HAND SIDE OF THE ROAD.



**811**  
Know what's below.  
Call before you dig.

W:\MTP\3051\BFL\USER\BJONES\MY DOCUMENTS\SD\G\DW\IMPROVEMENT SHEETS\### - COVER.DWG

(DESIGNED BY: GJA DRAWN BY: GJA CHECKED BY: CM APPROVED BY: LB)

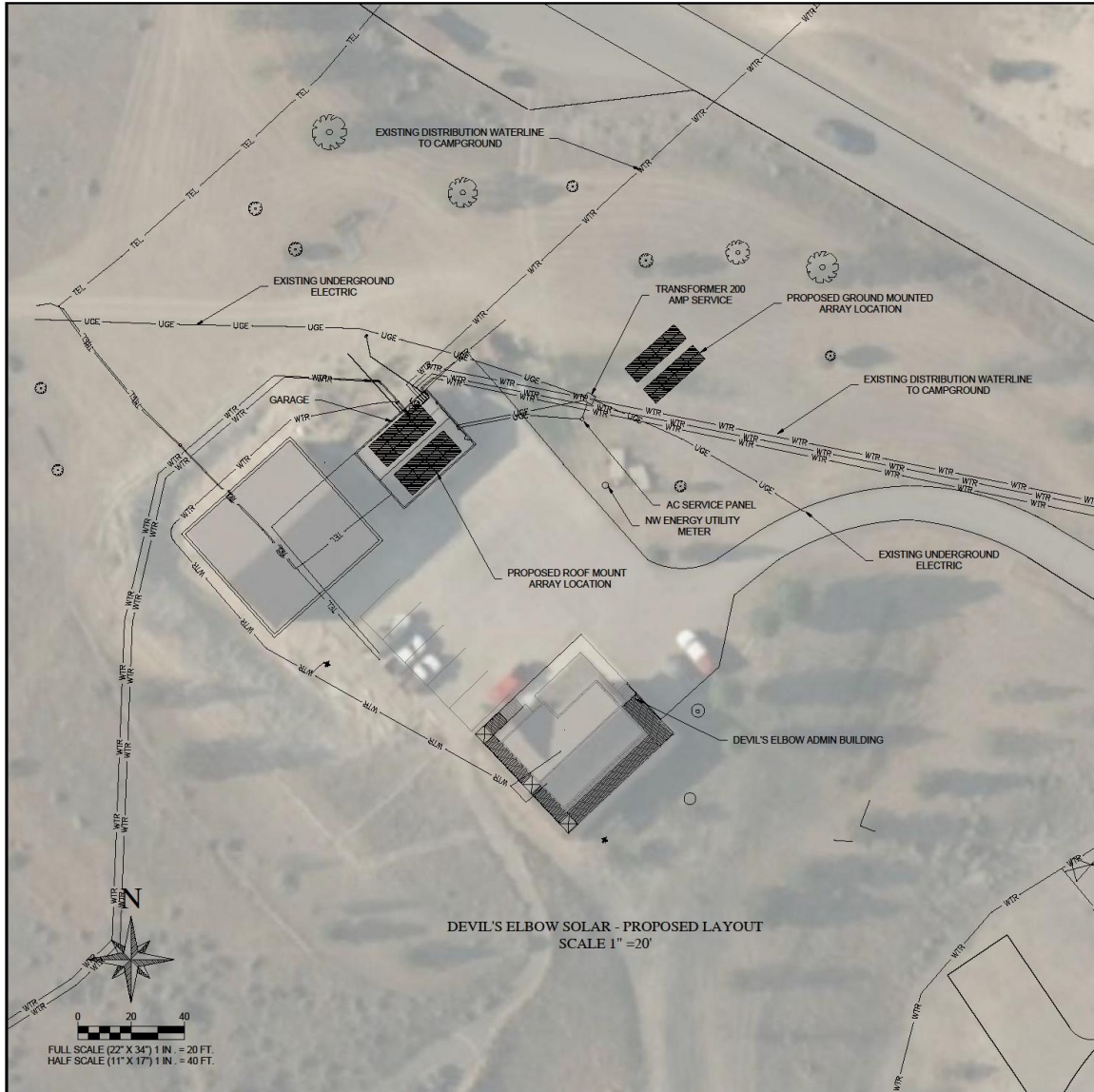
MARK	REVISION	DATE	APPROVED

**LAKEсите SOLAR ARRAYS**

CONCEPTUAL PLAN  
COVER SHEET

SHEET  
**01 OF 04**

here.



**NOTES:**

INSTALL A COMBINATION OF ROOF AND GROUND MOUNTED SOLAR ARRAYS CAPABLE OF PRODUCING 34,000 KWH ANNUALLY

ARRAY TO BE UTILIZED FOR ENERGY OFFSET AND INTERPRETATION SITE

ARRAY TO BE INSTALLED BY NABCEP LICENSED INSTALLER IN THE STATE OF MT

INSTALLER IS RESPONSIBLE FOR ALL PERMITS AND CORRESPONDENCE WITH NW ENERGY PRIOR TO INSTALLATION AS WELL AS THE FOLLOWING

- Design and installation of a roof-mounted photovoltaic system including modules, microinverters, wiring, breakers, and remote monitoring capabilities.
- All system components shall comply with the Buy American Act (BAA) and shall be manufactured in the United States. For components not available domestically exceptions must be approved by the BLM.
- System design must be submitted and approved through local utility provider's application/approval program for photovoltaic arrays
- Mounting system functional with the existing roof type (low-slope, metal roofing)
- Installed grounding, wiring, and overcurrent protection consistent with current National Electric Code (NEC), International Residential Code (IRC), and International Energy Conservation Code (IECC)
- Design shall include a complete set of construction documents, including drawings, specifications, cost estimate, and performance time.



**LAKESITE SOLAR ARRAYS**

CONCEPTUAL PLAN  
SITE PLAN

MARK	REVISION	DATE	APPROVED

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DISTRICT: WESTERN MONTANA DISTRICT  
DESIGN OFFICE: MISSOULA FIELD OFFICE  
ISSUED FOR: BUTTE FIELD OFFICE ISSUE DATE: 08/20/2022

SHEET 02 OF 04







**LAKESITE SOLAR ARRAYS**

CONCEPTUAL PLAN  
SITE PLAN

MARK	REVISION	DATE	APPROVED

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DISTRICT: WESTERN MONTANA DISTRICT  
DESIGN OFFICE: MISSOULA FIELD OFFICE  
ISSUED FOR: BUTTE FIELD OFFICE ISSUE DATE: 06/29/2022



SHEET  
**03 OF 04**

**NOTES:**

INSTALL A COMBINATION OF ROOF AND GROUND MOUNTED SOLAR ARRAYS CAPABLE OF PRODUCING 20,000 KWH ANNUALLY

ARRAY TO BE UTILIZED FOR ENERGY OFFSET AND INTERPRETATION SITE

ARRAY TO BE INSTALLED BY NABCEP LICENSED INSTALLER IN THE STATE OF MT

INSTALLER IS RESPONSIBLE FOR ALL PERMITS AND CORRESPONDENCE WITH NW ENERGY PRIOR TO INSTALLATION AS WELL AS THE FOLLOWING

- Design and installation of a roof-mounted photovoltaic system including modules, microinverters, wiring, breakers, and remote monitoring capabilities.
- All system components shall comply with the Buy American Act (BAA) and shall be manufactured in the United States. For components not available domestically exceptions must be approved by the BLM.
- System design must be submitted and approved through local utility provider's application/approval program for photovoltaic arrays
- Mounting system functional with the existing roof type (low-slope, metal roofing)
- Installed grounding, wiring, and overcurrent protection consistent with current National Electric Code (NEC), International Residential Code (IRC), and International Energy Conservation Code (IECC)
- Design shall include a complete set of construction documents, including drawings, specifications, cost estimate, and performance time.





**NOTES:**

INSTALL A COMBINATION OF ROOF AND GROUND MOUNTED SOLAR ARRAYS CAPABLE OF PRODUCING 15,000 KWH ANNUALLY

ARRAY TO BE UTILIZED FOR ENERGY OFFSET AND INTERPRETATION SITE

ARRAY TO BE INSTALLED BY NABCEP LICENSED INSTALLER IN THE STATE OF MT

INSTALLER IS RESPONSIBLE FOR ALL PERMITS AND CORRESPONDENCE WITH NW ENERGY PRIOR TO INSTALLATION AS WELL AS THE FOLLOWING

- Design and installation of a roof-mounted photovoltaic system including modules, microinverters, wiring, breakers, and remote monitoring capabilities.
- All system components shall comply with the Buy American Act (BAA) and shall be manufactured in the United States. For components not available domestically exceptions must be approved by the BLM.
- System design must be submitted and approved through local utility provider's application/approval program for photovoltaic arrays
- Mounting system functional with the existing roof type (low-slope, metal roofing)
- Installed grounding, wiring, and overcurrent protection consistent with current National Electric Code (NEC), International Residential Code (IRC), and International Energy Conservation Code (IECC)
- Design shall include a complete set of construction documents, including drawings, specifications, cost estimate, and performance time.



**LAKESITE SOLAR ARRAYS**  
**CONCEPTUAL PLAN**  
**SITE PLAN**

MARK	REVISION	DATE	APPROVED

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DISTRICT: WESTERN MONTANA DISTRICT  
DESIGN OFFICE: MISSOULA FIELD OFFICE  
ISSUED FOR: BUTTE FIELD OFFICE ISSUE DATE: 08/28/2022  
SHEET **04** OF **04**







*Devil's Elbow Garage Roof 1*



*White Sandy Campground Admin Building 1*