

Revised: <u>5/12/2021</u> <u>310 Form 270 and Instructions may be</u> <u>downloaded from:</u> <u>http://dnrc.mt.gov/licenses-and-</u> <u>permits/stream-permitting</u>	<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">CD/AGENCY USE ONLY</td> <td style="width: 40%;">Application # <u>Li-09-04-24</u></td> <td style="width: 40%;">Date Received <u>4-12-24</u></td> </tr> <tr> <td>Date Accepted</td> <td>Date <u>9-19-24</u> Initials <u>RL</u></td> <td>Date FW: to <u>9-23-24</u></td> </tr> </table>	CD/AGENCY USE ONLY	Application # <u>Li-09-04-24</u>	Date Received <u>4-12-24</u>	Date Accepted	Date <u>9-19-24</u> Initials <u>RL</u>	Date FW: to <u>9-23-24</u>
CD/AGENCY USE ONLY	Application # <u>Li-09-04-24</u>	Date Received <u>4-12-24</u>					
Date Accepted	Date <u>9-19-24</u> Initials <u>RL</u>	Date FW: to <u>9-23-24</u>					
<i>This space is for all Department of Transportation and SPA 124 permits (government projects).</i>							
Project Name	<u>Click to enter text.</u>						
Control Number	<u>Click to enter text.</u>						
	Contract Letting Date	<u>Date</u>					
MEPA/NEPA Compliance	<input type="checkbox"/> Yes <input type="checkbox"/> No						
If yes, #C5 of this application does not apply.							

This is a standardized application to apply for one or all local, state, or federal permits listed below.

	<u>PERMIT</u>	<u>AGENCY</u>	<u>FILL OUT SECTIONS</u>	<u>FEE</u>
x	310 Permit	Local Conservation District	A - E and G	Inquire locally
	SPA 124 Permit	Department of Fish, Wildlife and Parks	A - E and G	No fee
	318 Authorization 401 Certification	Department of Environmental Quality	A - E and G	\$250 (318); \$400 - \$20,000 (401)
	Navigable Rivers Land Use License, Lease, or Easement	Department of Natural Resources and Conservation, Trust Lands Management Division	A - E and G	\$50, plus additional fee
	Section 404 Permit, Section 10 Permit	U. S. Army Corps of Engineers (USACE)	A - G F1-8	Varies (\$0 - \$100)
	Floodplain Permit	Local Floodplain Administrator	A - G	Varies by city/county (\$25 - \$500+)

APPLICANT NAME (person responsible for project): Glen Lake Irrigation District

LANDOWNER NAME (if different from applicant): Various see last page

CONTRACTOR/COMPANY NAME (if applicable): [Click here to enter name or N/A.](#)

B. PROJECT SITE INFORMATION

1. NAME OF **STREAM** or **WATER BODY** at project location Therriault Creek
Project Address/Location: Click here to enter text. Nearest Town Eureka
County Lincoln Geocode: Click here to enter text.
Choose 1/4 of the Choose 1/4 of, Section Enter Township Enter., Range Enter
Latitude Enter Latitude Longitude Enter Longitude. Refer to section B1 in the instructions.
2. Is the proposed activity within **SAGE GROUSE** areas designated as general, connected, or core habitat?
Yes ☐ No ☒ Attach consultation letter if required. Refer to section B2 in the instructions.
3. Is this a **STATE NAVIGABLE WATERWAY**? The state owns beds of certain navigable waterways.
Yes ☐ No ☒ If yes, send a copy of this application to the appropriate DNRC land office. Refer to section B3 in the instructions.
4. **WHAT IS THE CURRENT CONDITION** of the proposed project site? Describe the existing bank condition, bank slope, height, nearby structures, and wetlands. What vegetation is present? Refer to section B4 in the instructions.
The project site is at GLID's Therriault Loop. The bank is steep and heavily eroded.

C. PROPOSED PROJECT OR ACTIVITY INFORMATION

1. **TYPE OF PROJECT** (check all that apply) Refer to section C1 in the instructions.
 - ☒ **Agricultural and Irrigation Projects:** Diversions, Headgates, Flumes, Riparian fencing, Ditches, etc.
 - ☐ **Buildings/Structures:** Accessory Structures, Manufactured Homes, Residential or Commercial Buildings, etc.
 - ☒ **Channel/Bank Projects:** Stabilization, Restoration, Alteration, Dredging, Fish Habitat, Vegetation or Tree Removal, or any other work that modifies existing channels or banks.
 - ☐ **Crossings/Roads:** Bridge, Culvert, Fords, Road Work, Temporary Access, or any project that crosses over or under a stream or channel.
 - ☐ **Mining Projects:** All mining related activity, including; Placer Mining, Aggregate Mining, etc.
 - ☐ **Recreation related Projects:** Boat Ramps, Docks, Marinas, etc.
 - ☐ **Other Projects:** Cistern, Debris Removal, Excavation/Pit/Pond, Placement of Fill, drilling or directional boring, Utilities, Wetland Alteration. Other project type not listed here _____
2. **IS THIS APPLICATION FOR** an annual maintenance permit? ☐ Yes ☒ No
(If yes attach annual plan of operation to this application) – Refer to section C2 in the instructions.
3. **WHY IS THIS PROJECT NECESSARY? STATE THE PURPOSE OR GOAL** of the proposed project. Refer to section C3 in the instructions.
The purpose of this project is to reduce erosion.
4. **PROVIDE A BRIEF DESCRIPTION** of the proposed project plan and how it will be accomplished. Refer to section C4 in the instructions.
This project involves stabilizing a bank above Therriault Creek to reduce erosion. Please review drawings. The contractor will also hydroseed the area and plant small evergreens. The road will also be extended to meet 12' road requirement.

5. WHAT OTHER ALTERNATIVES were considered to accomplish the stated purpose of the project? Why was the proposed alternative selected? Refer to section C5 in the instructions.

Alternative 1 would be to do nothing and let the bank continue to erode. The bank is very steep, and options are limited for erosion control.

6. NATURAL RESOURCE BENEFITS OR POTENTIAL IMPACTS. Please complete the information below to the best of your ability.

* Explain any temporary or permanent changes in erosion, sedimentation, turbidity, or increases of potential contaminants. What will be done to minimize those impacts?

The purpose of this project is to reduce erosion and sedimentation in Therriault Creek.

- Will the project cause temporary or permanent impacts to fish and/or aquatic habitat? What will be done to protect the fisheries?

The project should not have significant impact on fisheries.

- What will be done to minimize temporary or permanent impacts to the floodplain, wetlands, or riparian habitat? There should be no impact to the floodplain, wetland, or riparian habitat.

- What efforts will be made to decrease flooding potential upstream and downstream of project? There should be little if any impact on flooding.

- Explain potential temporary or permanent changes to the water flow or to the bed and banks of the waterbody. What will be done to minimize those changes?

There will be no change to water flow or the streambed as the project is located away from the stream.

- How will existing vegetation be protected and its removal minimized? Explain how the site will be revegetated. Include weed control plans.

Equipment will be cleaned prior to construction. The area will be hydroseeded and planted with small evergreens.

D. CONSTRUCTION DETAILS

1. PROPOSED CONSTRUCTION DATES. Include a project timeline. Start date 10/15/2024
Finish date 11/15/2025 How long will it take to complete the project? 1 year Is any portion of the work already completed?
☐ Yes ☒ No (If yes, describe previously completed work.)

Refer to section D1 in the instructions.

[Click here to enter text.](#)

2. PROJECT DIMENSIONS. Describe length and width of the project. Refer to section D2 in the instructions.
Please see drawings.

3. EQUIPMENT. List all equipment that will be used for this project. How will the equipment be used on the bank and/or in the water? Note: All equipment used in the water must be clean, drained and dry. Refer to section D3 in the instructions.

Excavator, skid steer, vibratory roller

Will equipment from out of state be used? YES ☐ NO ☒ UNKNOWN ☐

Will the equipment cross west over the continental divide to the project site? YES ☐ NO ☒ UNKNOWN ☐

Will equipment enter the Flathead Basin? YES ☐ NO ☒ UNKNOWN ☐

4. MATERIALS. Provide the total quantity and source of materials proposed to be used or removed. Note: This may be modified during the permitting process therefore it is **recommended you do not purchase materials until all permits are issued.** List soil/fill type, cubic yards and source, culvert size, rip-rap size, any other materials to be used or removed on the project. Refer to section D4 in the instructions.

Cubic yards/Linear feet

Size and Type
Hydroseeding
Small evergreens
Geotextile fabric

Source

E. REQUIRED ATTACHMENTS

1. PLANS AND/OR DRAWINGS of the proposed project. **Include:**

- Plan/Aerial view
- an elevation or cross section view
- dimensions of the project (height, width, depth in feet)
- location of storage or stockpile materials dimensions and location of fill or excavation sites
- drainage facilities
- location of existing/proposed structures, such as buildings, utilities, roads, or bridges
- an arrow indicating north
- Site photos

2. ATTACH A VICINITY MAP OR A SKETCH which includes: The water body where the project is located, roads, tributaries, other landmarks. Place an "X" on the project location. Provide written directions to the site. This is a plan view (looking at the project from above).

3. ATTACH ANNUAL PLAN OF OPERATION if requesting a **Maintenance 310 Permit**.

4. ATTACH AQUATIC RESOURCE MAP. Document the location and boundary of all waters of the U.S. in the project vicinity, including wetlands and other special aquatic sites. Show the location of the ordinary high-water mark of streams or waterbodies. **if requesting a Section 404 or Section 10 Permit.** Ordinary high-water mark delineation included on plan or drawings and/or a separate wetland delineation.

**F. ADDITIONAL INFORMATION FOR U.S. ARMY CORPS OF ENGINEERS (USACE)
SECTION 404, SECTION 10 AND FLOODPLAIN PERMITS.**

Section F should only be filled out by those needing Section 404, Section 10, and/or Floodplain permits. Applicants applying for Section 404 and/or Section 10 permits complete F 1- 8. Applicants applying for Floodplain permits, complete all of Section F. Refer to section F in the instructions.

FOR QUESTIONS RELATING TO SECTION F, QUESTIONS 1-8 PLEASE CONTACT THE USACE BY TELEPHONE AT 406-441-1375 OR BY E-MAIL MONTANA.REG@USACE.ARMY.MIL.

1. Identify the specific **Nationwide Permit(s)** that you want to use to authorize the proposed activity. Refer to section F1 in the instructions.

Click here to enter text.

2. Provide the **quantity of materials** proposed to be used in waters of the United States. What is the length and width (or square footage or acreage) of impacts that are occurring within waters of the United States? How many cubic yards of fill material will be placed below the ordinary high-water mark, in a wetland, stream, or other waters of the United States? Note: Delineations are required of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Refer to section F2 in the instructions.

Click here to enter text.

3. How will the proposed project avoid or minimize **impacts to waters of the United States?** Attach additional sheets if necessary. Refer to section F3 in the instructions.

Click here to enter text.

4. Will the project impact greater than 0.10-acre of wetland and/or more than 300 linear feet of stream or other waters? If yes, describe how the applicant is going to **compensate (mitigation bank, in-lieu fee program, or permittee responsible)** for these unavoidable impacts to waters of the United States. Refer to section F4 in the instructions.

Click here to enter text.

5. Is the activity proposed within any component of the **National Wild and Scenic River System**, or a river that has been officially designated by Congress as a "**study river**"? Refer to section F5 in the instructions.

☐ Yes ☐ No

6. Does this activity require permission from the USACE because it will alter or temporarily or permanently occupy or use a **USACE authorized civil works project? (Examples include USACE owned levees, Fort Peck Dam, and others)?** Refer to section F6 in the instructions.

☐ Yes ☐ No

7. List the **ENDANGERED AND THREATENED SPECIES** and **CRITICAL HABITAT(s)** that might be present in the project location. Refer to section F7 in the instructions.

Click here to enter text.

8. List any **HISTORIC PROPERTY(S)** that are listed, determined to be eligible or are potentially eligible (over 50 years old) for listing on the National Register of Historic Places." Refer to section F8 in the instructions.

Click here to enter text.

9. List **all applicable local, state, and federal** permits and indicate whether they were issued, waived, denied, or pending. Note: All required local, state, and federal permits, or proof of waiver must be issued prior to the issuance of a floodplain permit. Refer to section F9 in the instructions.

[Click here to enter text.](#)

10. List the **NAMES AND ADDRESSES OF LANDOWNERS** adjacent to the project site. This includes properties adjacent to and across from the project site. (Some floodplain communities require certified adjoining landowner lists).

NAME OF **Adjacent Landowner**: [Michael Brewer PO Box 1584, Eureka, MT 59917](#)

NAME OF **Adjacent Landowner**: [Jennifer Brewer 88 Slade St, Belmont MA 02478](#)

NAME OF **Adjacent Landowner**: [Carissa Hober 6317 N Coucelles Parkway, Coeur D Alene, ID 83815](#)

NAME OF **Adjacent Landowner**: [Click here to enter name](#) [Click here to enter Address](#)

11. **Floodplain Map Number** [Click here to enter map number or N/A.](#) Refer to section F11 in the instructions.

12. Does this project comply with **local planning or zoning regulations**? Refer to section F12 in the instructions.

☒ Yes ☐ No

G. SIGNATURES/AUTHORIZATIONS

Some agencies require original signatures. **After completing the form**, make the required number of copies and **then sign each copy**. Send the copies with original signatures and additional information required directly to each applicable agency.

The statements contained in this application are true and correct. The applicant possess' the authority to undertake the work described herein or is acting as the duly authorized agent of the landowner. The applicant understands that the granting of a permit does not include landowner permission to access land or construct a project. Inspections of the project site after notice by inspection authorities are hereby authorized. Refer to section G in the instructions.

APPLICANT (Person responsible for project):

Print Name: Joe McAfee

LANDOWNER:

Print Name: Michael Brewer

Signature of Applicant Date

Signature of Landowner Date

LANDOWNER:

Print Name: Jennifer Brewer

LANDOWNER:

Print Name: Carissa Hober

Signature of Applicant Date

Signature of Landowner Date

*CONTRACTOR'S PRIMARY CONTACT (if applicable):

Print Name: [Click here to enter name.](#)

Signature of Contractor/Agent Date

*Contact agency to determine if contractor signature is required.

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APPLICANT (Person responsible for project):

Print Name: Joe McAfee

Joe McAfee 9-10-24
Signature of Applicant Date

LANDOWNER:

Print Name:

Signature of Landowner Date

*CONTRACTOR'S PRIMARY CONTACT (if applicable):

Print Name: Click here to enter name.

Signature of Contractor/Agent Date

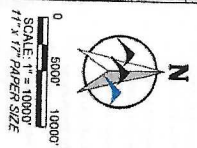
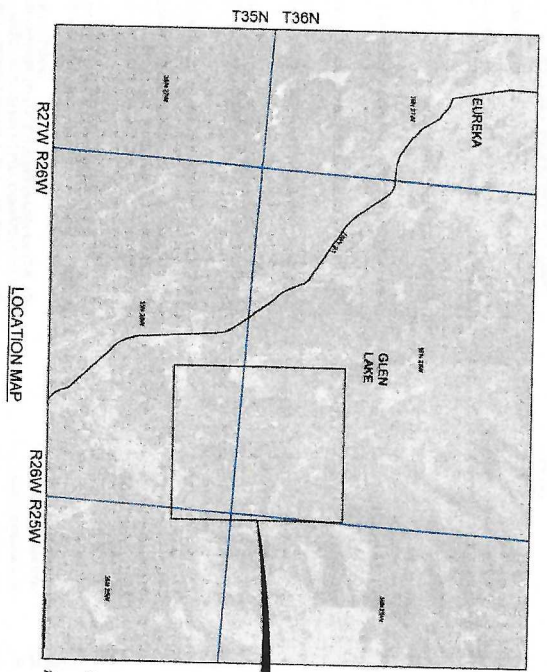
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Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES
3	OVERALL SITE PLAN
4	EXISTING CONDITIONS - GRAVE CREEK RD
5	PLAN - GRAVE CREEK RD
6	PROFILE - GRAVE CREEK RD
7	BMP PLAN - GRAVE CREEK RD
8	EXISTING CONDITIONS - STOKEN CREEK RD
9	PLAN - STOKEN CREEK RD
10	PROFILE - STOKEN CREEK RD
11	BMP PLAN - STOKEN CREEK RD
12	EXISTING CONDITIONS - ASPEN GLEN RD
13	EXISTING CONDITIONS - CORVETTE DR
14	PLAN - CORVETTE DR
15	PROFILE - CORVETTE DR
16	BMP PLAN - CORVETTE DR
17	EXISTING CONDITIONS - GLEN LAKE RD
18	PLAN - GLEN LAKE RD
19	PROFILE - GLEN LAKE RD
20	BMP PLAN - GLEN LAKE RD
21	OVERVIEW - GLEN LAKE INLET STABILIZATION
22	PLAN & PROFILE - GLEN LAKE INLET STABILIZATION
23	XS1 - GLEN LAKE INLET STABILIZATION
24	OVERVIEW - THERRAULT LOOP STABILIZATION
25	PLAN & PROFILE 1 - THERRAULT LOOP STABILIZATION
26	PLAN & PROFILE 2 - THERRAULT LOOP STABILIZATION
27	PLAN & PROFILE 3 - THERRAULT LOOP STABILIZATION
28	XS1 - THERRAULT LOOP STABILIZATION
29	XS2 - THERRAULT LOOP STABILIZATION
30	XS3 - THERRAULT LOOP STABILIZATION
31	XS4 - THERRAULT LOOP STABILIZATION
32	XS5 - THERRAULT LOOP STABILIZATION
33	XS6 - THERRAULT LOOP STABILIZATION
34	XS7 - THERRAULT LOOP STABILIZATION
35	XS8 - THERRAULT LOOP STABILIZATION
36	XS10 - THERRAULT LOOP STABILIZATION
37	XS11 - THERRAULT LOOP STABILIZATION
38	CULVERT DETAILS

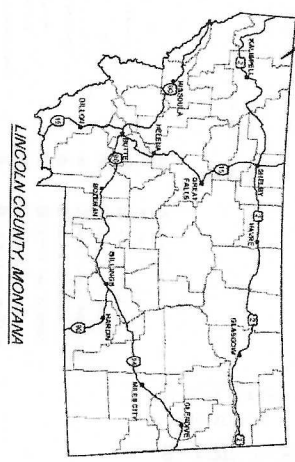
CONSTRUCTION DRAWINGS

GLEN LAKE IRRIGATION DISTRICT

MAIN CANAL IMPROVEMENTS

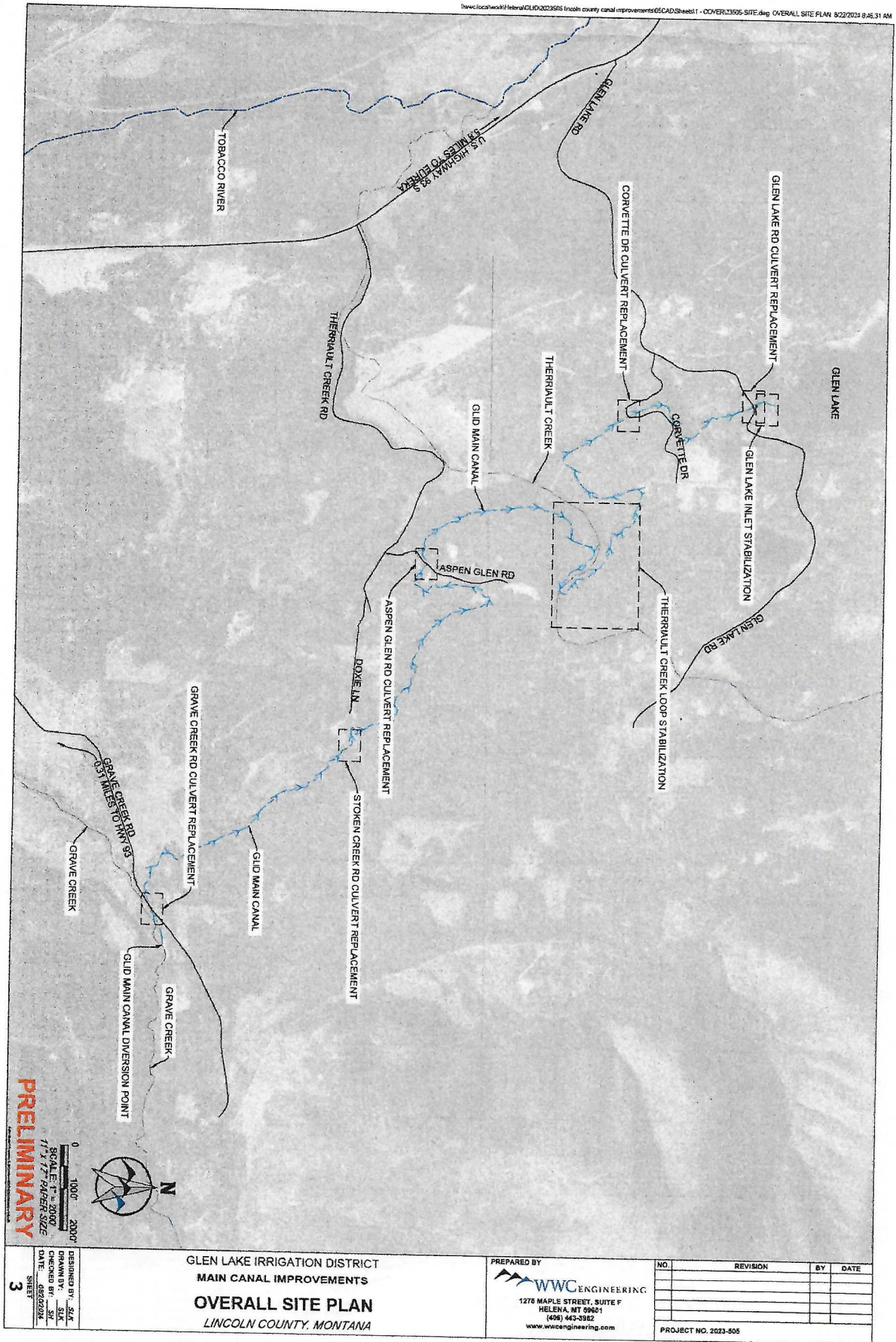


PROJECT LOCATIONS



PRELIMINARY

PREPARED FOR		GLEN LAKE IRRIGATION DISTRICT	
PREPARED BY		WMC ENGINEERING	
PROJECT NO. 2023-004		DESIGNED BY: SLK	
NO.		DRAWN BY: SLK	
REVISED		CHECKED BY: SLK	
BY		DATE: 09/30/2023	
DATE		DRAWING NO. 1	



PRELIMINARY

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11" x 17" PAPER SIZE

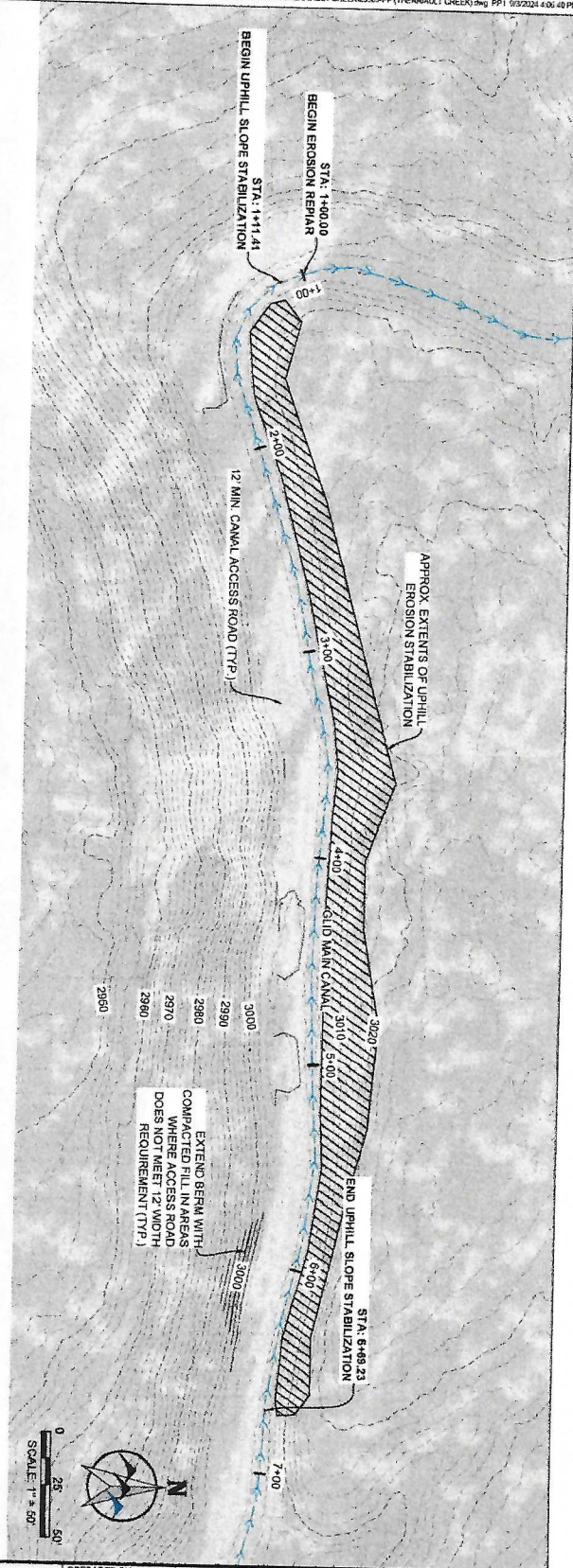


DESIGNED BY: SLK
DRAWN BY: SLK
DATE: 08/22/24
SHEET 3

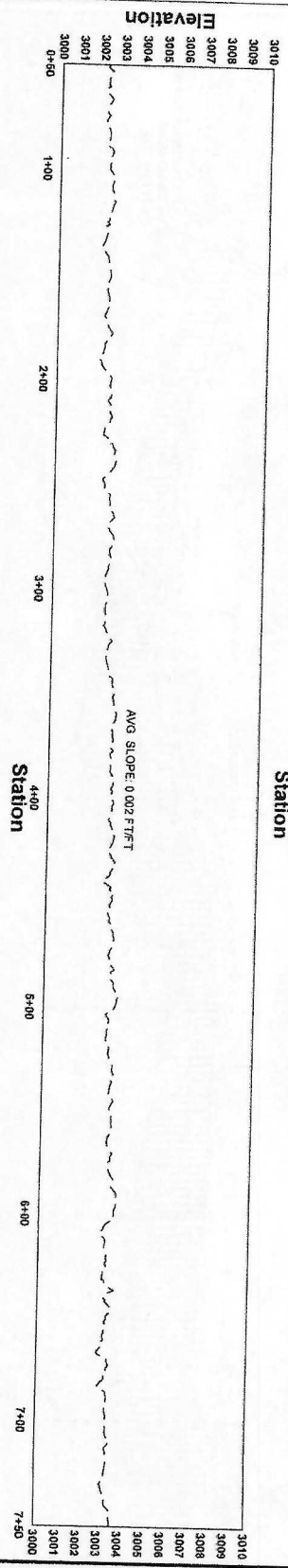
GLEN LAKE IRRIGATION DISTRICT
MAIN CANAL IMPROVEMENTS
OVERALL SITE PLAN
LINCOLN COUNTY, MONTANA

PREPARED BY
WWC ENGINEERING
1278 MAPLE STREET, SUITE F
HELENA, MT 59601
(406) 443-2982
www.wwcengineering.com

NO.	REVISION	BY	DATE
PROJECT NO. 2023-505			

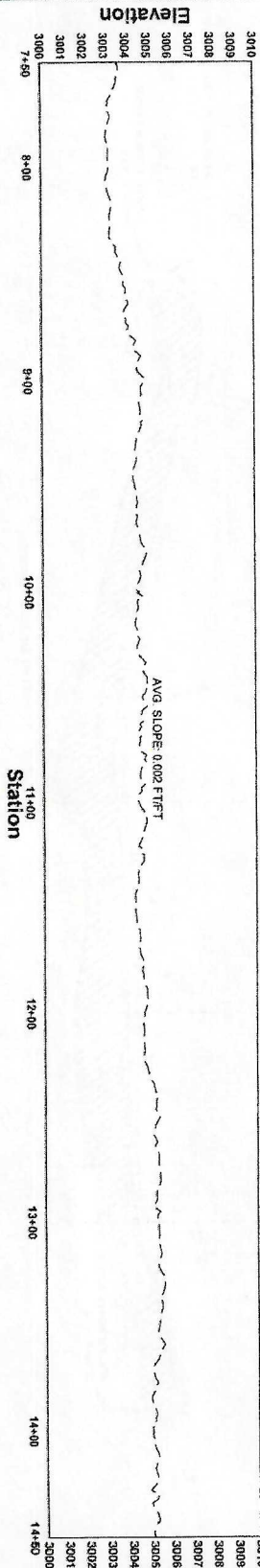
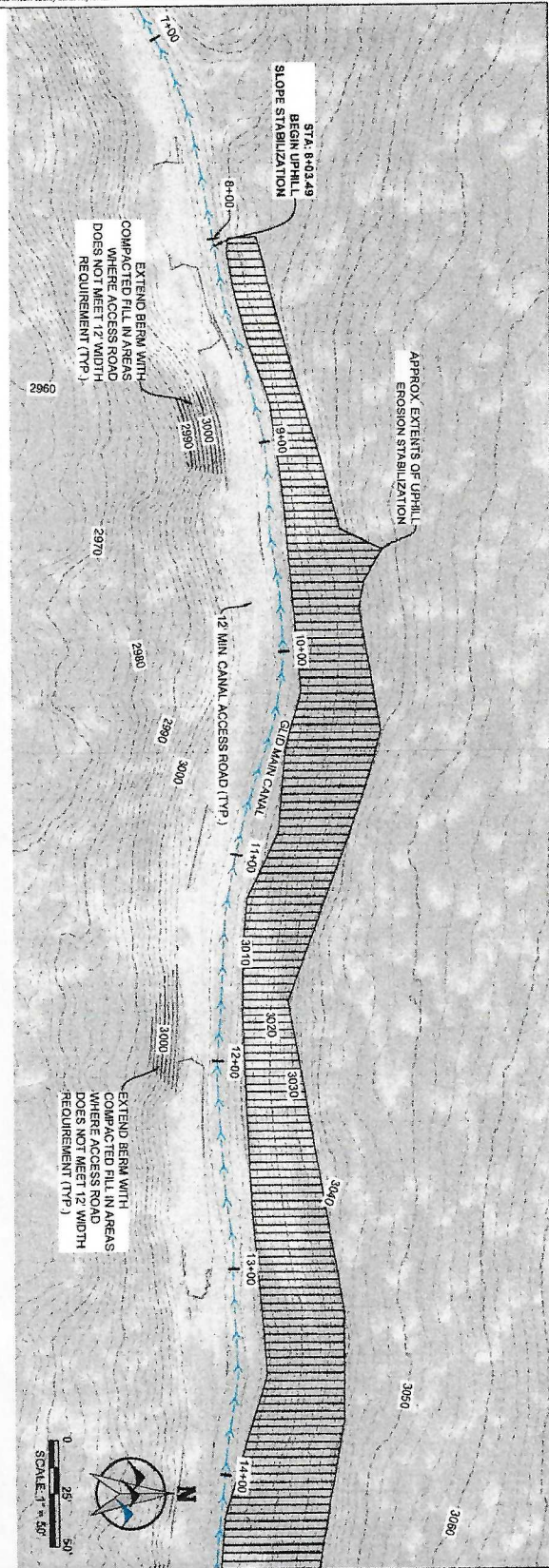


Profile View of Therriault Loop Erosion Repair



PRELIMINARY

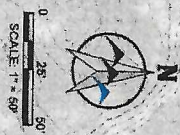
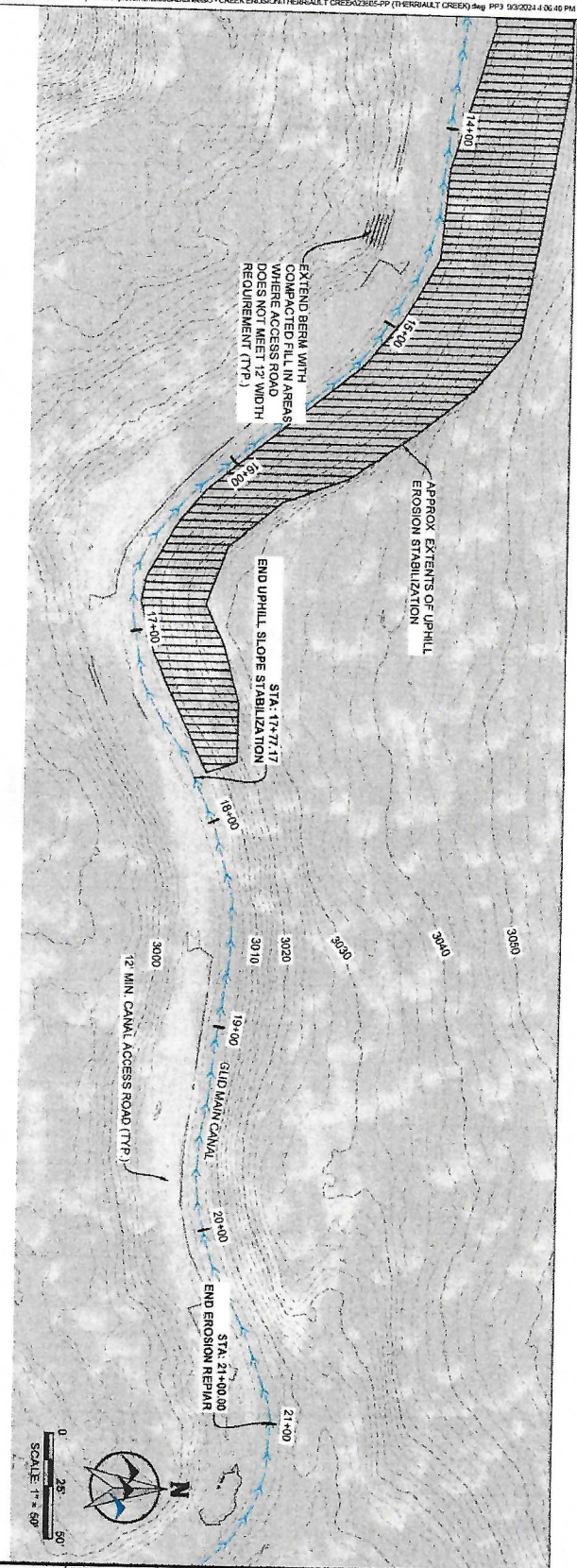
DESIGNED BY: SLK DRAWN BY: SLK CHECKED BY: SLK DATE: 05/20/2024 SHEET: 25		GLEN LAKE IRRIGATION DISTRICT MAIN CANAL IMPROVEMENTS PLAN & PROFILE 1 - THERRIAULT LOOP STABILIZATION LINCOLN COUNTY, MONTANA		PREPARED BY: WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-2802 www.wwcengineering.com		<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	REVISION	BY	DATE				
NO.	REVISION	BY	DATE												
PROJECT NO. 2023-005				SCALE: 1" = 50'											



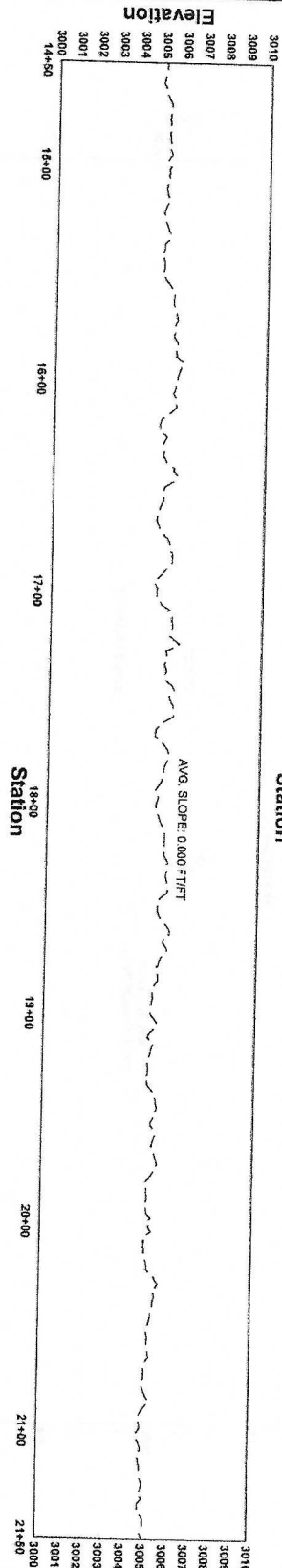
Profile View of Therriault Loop Erosion Repiar

PRELIMINARY

DESIGNED BY: SLK DRAWN BY: SLK CHECKED BY: SLK DATE: 9/3/2024 SHEET: 26	GLEN LAKE IRRIGATION DISTRICT MAIN CANAL IMPROVEMENTS PLAN & PROFILE 2 - THERRIAULT LOOP STABILIZATION LINCOLN COUNTY, MONTANA		PREPARED BY: WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (409) 445-3962 www.wwcengineering.com	NO. _____ REVISION _____ BY _____ DATE _____ PROJECT NO. 2023-005

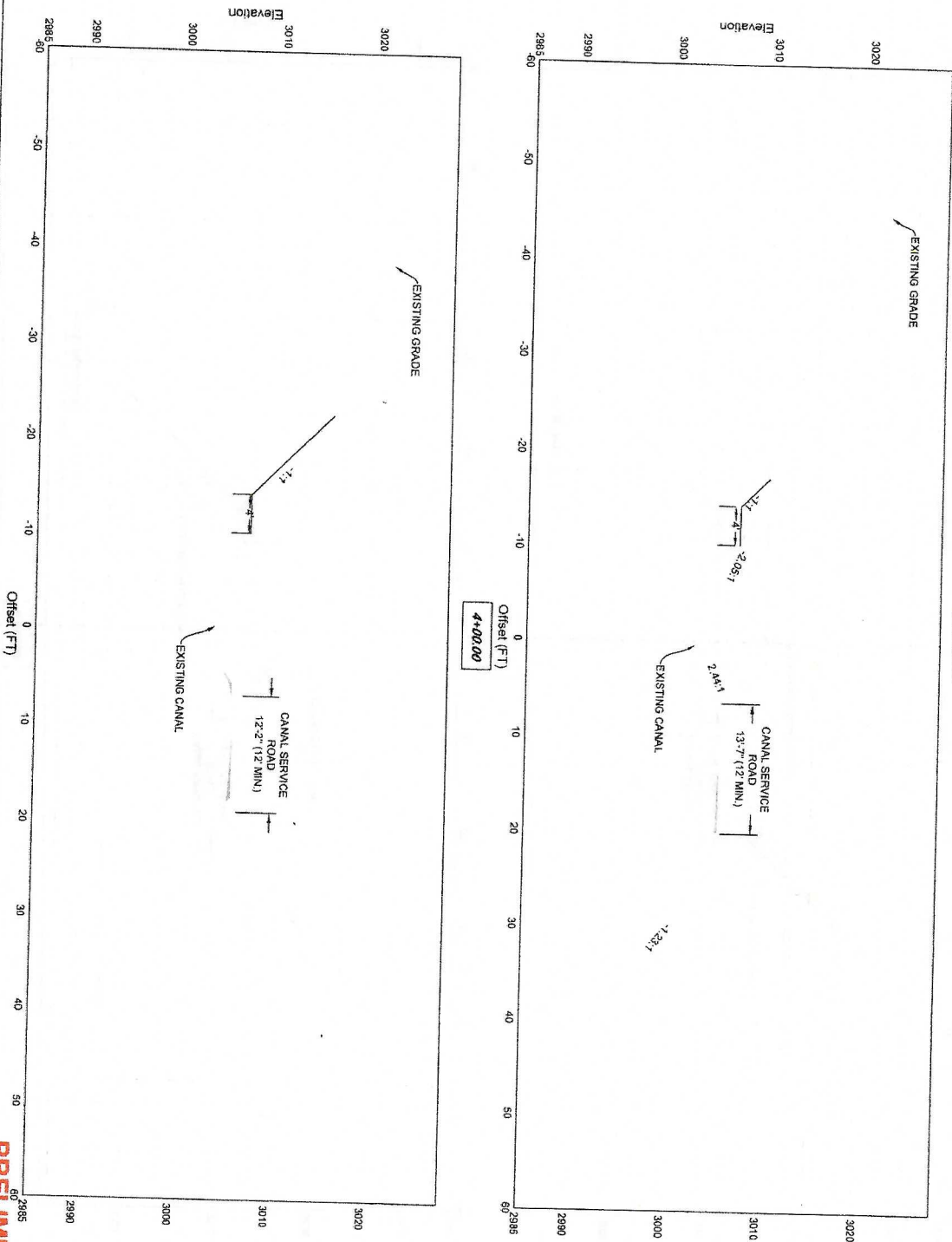


Profile View of Therriault Loop Erosion Repair



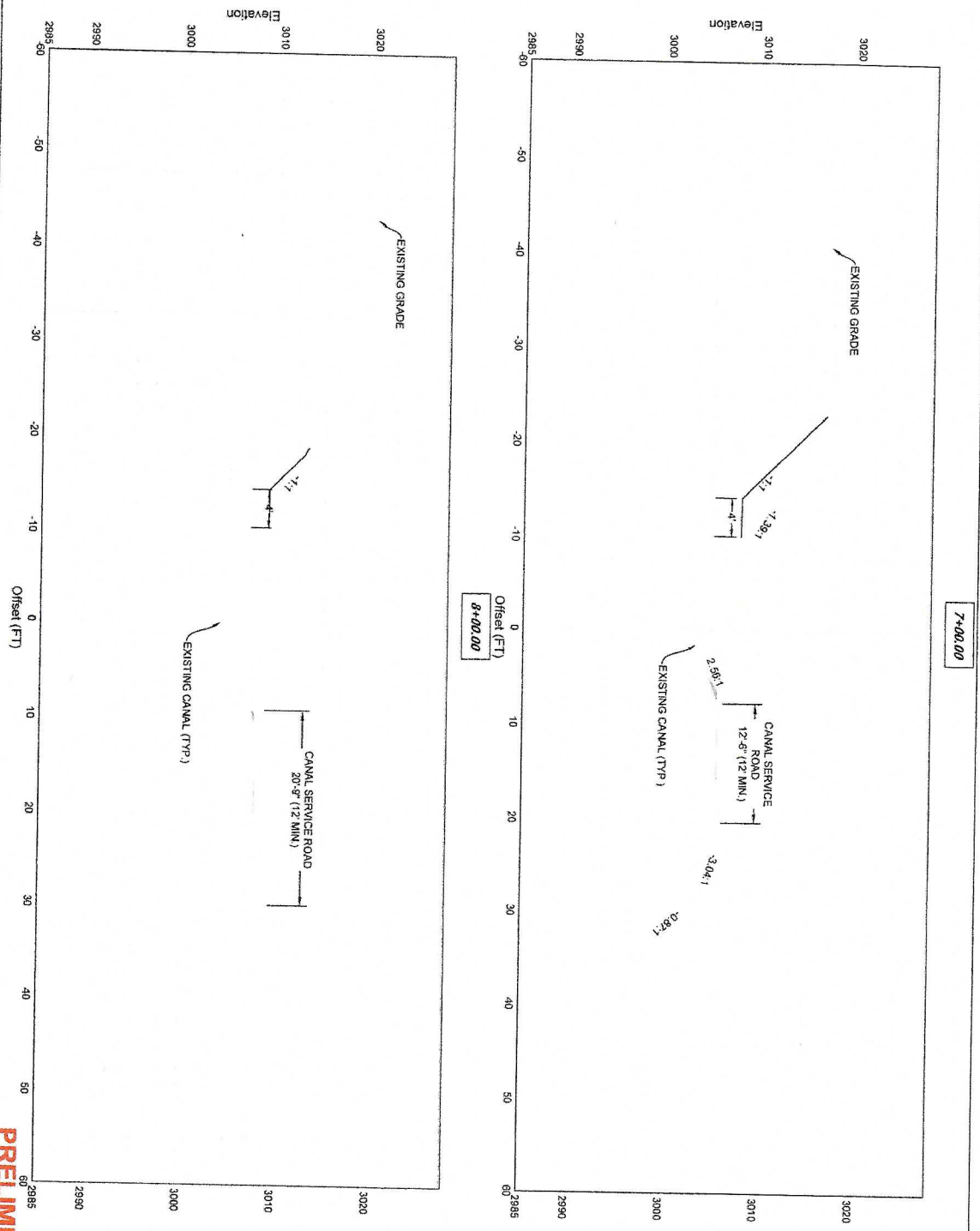
PRELIMINARY

DESIGNED BY: <u>SLK</u> DRAWN BY: <u>SLK</u> CHECKED BY: <u>SLK</u> DATE: 06/20/2024		GLEN LAKE IRRIGATION DISTRICT MAIN CANAL IMPROVEMENTS PLAN & PROFILE 3 - THERRIAULT LOOP STABILIZATION LINCOLN COUNTY, MONTANA		PREPARED BY: WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 445-5965 www.wwcengineering.com		NO. _____ REVISION _____ BY _____ DATE _____	PROJECT NO. 2023-505
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PRELIMINARY

DESIGNED BY: <u>SKA</u> DRAWN BY: <u>SKA</u> CHECKED BY: <u>SKA</u> DATE: <u>08/02/2024</u>	GLEN LAKE IRRIGATION DISTRICT MAIN CANAL IMPROVEMENTS XS2 - THERRIAULT LOOP STABILIZATION LINCOLN COUNTY, MONTANA	PREPARED BY WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-2962 www.wwcengineering.com	NO. REVISION BY DATE			
			PROJECT NO. 2023-506			



PRELIMINARY

SHEET 31	<p>DESIGNED BY: S&K DRAWN BY: S&K CHECKED BY: S&K DATE: 08/22/2014</p> <p>GLEN LAKE IRRIGATION DISTRICT MAIN CANAL IMPROVEMENTS XS4 - THERRIAULT LOOP STABILIZATION LINCOLN COUNTY, MONTANA</p>	<p>PREPARED BY WWC ENGINEERING 1275 MAPLE STREET, SUITE F HELENA, MT 59601 (406) 443-3982 www.wwcengineering.com</p>	<table border="1"> <thead> <tr> <th>NO.</th><th>REVISION</th><th>BY</th><th>DATE</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p>PROJECT NO. 2023-505</p>	NO.	REVISION	BY	DATE																
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