



# AGENDA

## IDAHO WATER RESOURCE BOARD

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**Finance Committee Meeting No. 4-26**  
**Friday, May 8, 2026**  
**1:00 p.m. (MT) / 12:00 p.m. (PT)**

**Brad Little**  
*Governor*

**Jeff Raybould**  
*Chairman*  
St. Anthony  
At Large

**Jo Ann Cole-Hansen**  
*Vice Chair*  
Lewiston  
At Large

**Dean Stevenson**  
*Secretary*  
Paul  
District 3

**Dale Van Stone**  
Hope  
District 1

**Albert Barker**  
Boise  
District 2

**Brian Olmstead**  
Twin Falls  
At Large

**Marcus Gibbs**  
Grace  
District 4

**Patrick McMahon**  
Sun Valley  
At Large

Water Center  
Conference Rooms 602 B – D  
322 E. Front Street  
BOISE

Livestream available at <https://www.youtube.com/@iwrp>

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1. Introductions and Attendance
2. Loan Application - Dalton Water Association\*
3. Regional Water Sustainability Project List Criteria\*
4. Winchester Dam Repair RWSP Proposal\*
5. Mountain Home Plateau Aquifer RWSP Funding Proposal\*
6. ESPA Surface Water Coalition Efficiency Program - Minidoka Irrigation District\*
7. Grant Program Timing and Criteria\*
8. Fiscal Year 2027 Secondary Fund Budget Settings\*
9. Fiscal Year 2027 Water Management Account Spending Plan\*
10. Other Items
11. Adjourn

**Committee Members:**

Chair Jo Ann Cole-Hansen, Jeff Raybould, Marc Gibbs, Dale Van Stone, and Dean Stevenson.

\*Action Item: A vote regarding this item may be made at this meeting. Identifying an item as an action item on the agenda does not require a vote to be taken on the item.

**Americans with Disabilities Act:** If you require special accommodation to attend, participate in, or understand the meeting, please contact the Department no later than five days before the meeting. To request an accommodation, please send an email to [milin.ream@idwr.idaho.gov](mailto:milin.ream@idwr.idaho.gov) or call (208) 287-4800.

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Justin Ferguson, Project Manager  
**Date:** May 1, 2026  
**Subject:** Dalton Water Association – New Water Project Loan Application

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**REQUESTED ACTION:** Consider a Loan Request of \$797,000.00

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## **INTRODUCTION**

The Dalton Water Association, Inc. (DWA) is requesting a new loan in the amount of \$797,000 from the Idaho Water Resource Board (IWRB) to upsize its existing transmission main to protect the existing drinking public and domestic water system. The current transmission main is comprised of asbestos-cement pipe and is nearing the end of its service life, potentially putting users on the system at risk should an issue occur.

## **BACKGROUND**

The Dalton Water Association, Inc. is the governing entity for domestic water distribution in the areas in and around the City of Dalton Gardens. Their distribution system currently includes 957 year-round water users with an additional 83 commercial water users.

## **PRIOR LOANS**

DWA has held several loans with the IWRB in the past, including a loan in 1976 and another in 1979. As those projects were completed, the IWRB entered into subsequent loan agreements with DWA in 1994, 1998, 2008, and, most recently, a loan in 2018. To date, all these obligations have been paid in full.

## **PROPOSED PROJECT**

The Project will replace DWA's existing transmission main, comprised of asbestos-concrete, with an updated and upsized PVC pipe system. The line begins at Mt. Carroll Street and continues to the tank reservoir site. Work on the initial design is underway through JUB Engineers, with 95% design cost data provided in the application package.

## **BENEFITS**

The transmission line replacement would provide DWA several benefits for both their service area and the surrounding water users. Because the pipe is nearing the useable service life, replacing the asbestos-concrete with PVC would prevent any water users from the potential impacts of asbestos exposure. Further, because this transmission line is one of the major ways DWA routes water to its users, a failure could result in a loss of water for both domestic and commercial users.

## **FINANCIAL ANALYSIS**

The total Project costs were estimated at \$686,000, adding a contingency of \$111,000 the total requested was \$797,000. Currently, DWA assesses their water users per hookup at \$81.12 per quarter, with additional assessments at \$1.04 per 1,000 gallons over 10K gallons per month.

Dalton Water Association also has an additional source of income to repay the loan, as noted in the application, there is a 201 Government Way Upsize Project Special Assessment in place. The Association has also already secured reserve funding with a 6-month running average balance of \$750,000. Based on DWA’s loan payment history with the IWRB, and the financial information provided in the application, there are no concerns at this time as to DWA’s ability to repay the loan. The estimated annual payment, based on a 15-year term and an estimated 3 equal disbursements, was approximately \$80,000 at a 5.39% interest rate.

The funds will be allocated from the Revolving Development Account with an estimated balance of \$2,971,000 (*As of February 2026, rounded*)

**WATER RIGHTS**

<b>Water Right</b>	<b>Source</b>	<b>Priority Date</b>	<b>Rate</b>	<b>Beneficial Use</b>
<b>95-7008</b>	Groundwater	11/22/1967	2.38	Domestic
<b>95-7360</b>	Groundwater	9/13/1973	2.32	Domestic

**SECURITY**

As security for the loan, the Dalton Water Association has offered its existing well-site parcel, including the existing pumphouse infrastructure, along with an additional parcel for future water project usage. The estimated value for the property, as provided in the application, was sufficient to cover the amount requested by DWA.

**CONCLUSION AND RECOMMENDATION**

The requested funds will be used to upsize and update Dalton Water Association’s existing transmission main, eliminating the risk of asbestos contamination and providing its water users with reliable infrastructure. The Association has held several loans in the past with a perfect repayment record, has already secured a savings account well beyond the estimated annual payment, and has established a special assessment to ensure the loan is paid in full.

The applicant meets the qualification criteria, and the proposed project is consistent with the Board's goals established in the Idaho State Water Plan. Staff recommends the approval of the loan request for the total amount of \$797,000.00.

**Attachments:**

- *Draft Resolution*

**BEFORE THE IDAHO WATER RESOURCE BOARD**

IN THE MATTER OF THE DALTON WATER  
ASSOCIATION LOAN REQUEST

RESOLUTION TO AUTHORIZE LOAN FUNDING  
FOR COSTS RELATED TO TRANSMISSION LINE  
REPAIRS

1           WHEREAS, Dalton Water Association (Association) submitted a loan application to the Idaho  
2 Water Resource Board (IWRB) in the amount of \$797,000 to cover costs associated with the update and  
3 upsizing of one of their transmission lines; and  
4

5           WHEREAS, the Association was established to govern the distribution of Domestic water within  
6 and around the Dalton Gardens area, with over 1,000 residential and commercial water users; and  
7

8           WHEREAS, the existing transmission line was installed in the 1960s and has reached the scheduled  
9 useful service life; and  
10

11           WHEREAS, the transmission line could pose severe health hazards to the Association’s patrons  
12 should there be a failure of this critical piece of infrastructure; and  
13

14           WHEREAS, the proposal is requesting funds to remove the existing asbestos-concrete pipe and  
15 replace the transmission line with a larger pipe made of PVC, improving both safety and reliability for the  
16 Association’s users; and  
17

18           WHEREAS, alternative options were explored but did not provide the Association a long-term  
19 solution to deliver domestic water and address potential future growth; and  
20

21           WHEREAS, the Association has held several loans with the IWRB, ranging from 1976 through 2018,  
22 that have all been paid in full; and  
23

24           WHEREAS, the Association has already established a reserve account with a 6-month average well  
25 over the estimated annual payment and has established a special assessment for its users for the costs of  
26 the project; and  
27

28           WHEREAS, the Association is a qualified applicant, and the proposed Project is eligible for a loan  
29 from the Board’s Revolving Development Account; and  
30

31           WHEREAS, the proposed Project is in the public interest and is in compliance with the State Water  
32 Plan.  
33

34           NOW THEREFORE BE IT FURTHER RESOLVED that the IWRB provides authority to the Chairman of  
35 the Idaho Water Resource Board, or his designee, to enter into contracts, to effectuate the loan, with the  
36 Association on behalf of the IWRB.  
37

38 NOW THEREFORE BE IT RESOLVED that the IWRB approves a loan not to exceed \$797,000 from  
39 the Water Management Account at 5.39 % interest with a 15-year repayment term.

40  
41 NOW THEREFORE BE IT FURTHER RESOLVED that this resolution and the approval of the loan are  
42 subject to the following conditions:

- 43
- 44 1) The Company shall comply with all applicable rules and regulations that apply to the proposed  
45 Project.
  - 46 2) Prior to the disbursement of any funds, the Company shall comply with all statutory  
47 requirements for incurring debt.
  - 48 3) Prior to the disbursement of any funds, the Company will provide acceptable security for the  
49 loan to the IWRB.

50  
  
DATED this 21<sup>st</sup> day of May, 2026.

\_\_\_\_\_  
JEFF RAYBOULD, Chairman  
Idaho Water Resource Board

ATTEST \_\_\_\_\_  
DEAN STEVENSON, Secretary

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Wesley Hipke, Water Projects Section Manager  
**Date:** May 5, 2026  
**Subject:** Regional Water Sustainability Priority List Criteria

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**REQUESTED ACTION:** Consider Updated Regional Water Sustainability Priority List Criteria

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## **BACKGROUND**

The Idaho Water Resource Board (IWRB) maintains the Regional Water Sustainability Priority List to identify major projects that can improve long-term water sustainability across Idaho. The List highlights regional, basin-wide, or statewide efforts, such as aquifer recharge, infrastructure modernization, and large-scale water studies, that help address declining water supplies, aging systems, and future water demands. While inclusion on the list does not guarantee funding, it signals that a project is an important regional priority and may receive IWRB support through coordination, letters of support, and assistance in seeking state or federal funding.

The IWRB first adopted the Regional Water Sustainability Priority List in July 2021 to guide spending for large regional projects using ARPA funds, state general funds, and other sources. In January 2022, the Board adopted initial criteria requiring that listed projects “help achieve water supply sustainability on a regional, basin-wide, or statewide basis.” Additional criteria, including the submittal process, evaluation considerations, and procedures for adding or removing projects, were formally adopted in October 2022.

As the interest in adding projects to the list has grown, the need to clarify and update the criteria became evident. The intent of the attached draft criteria is to provide guidance reflecting the updates and providing clearer expectations for project sponsors seeking inclusion the Regional Water Sustainability Priority List.

## **Attachment(s):**

- *DRAFT Updated Regional Water Sustainability Priority List Criteria*



## IWRB Regional Water Sustainability Priority List Criteria

The Idaho Water Resource Board (IWRB) maintains the [Regional Water Sustainability Priority List](#) (RWS Priority List) to identify and promote projects that have the potential to improve long-term water sustainability across Idaho. As stated in the [Idaho State Water Plan](#), sustainability requires the active stewardship of Idaho’s water resources to satisfy current uses while ensuring water availability for future generations. Surface and groundwater systems are not limitless, and many regions of the state are experiencing increased pressure due to declining water levels, growing demand, aging infrastructure, and changing hydrologic conditions.

To support effective statewide water management, the IWRB uses the RWS Priority List as a planning tool to highlight regional scale (basin-wide, multi-entity, and statewide) projects—both studies and capital improvements—that address significant water resource challenges. These projects may contribute to stabilizing aquifer levels, modernizing critical infrastructure, improving drought resilience, resolving anticipated water supply conflicts, and protecting existing water rights and beneficial uses identified in Idaho Code. The IWRB may group related efforts into a single program or establish programs to support coordinated regional implementation.

The RWS Priority List also supports implementation of the Idaho State Water Plan, including the prioritization of IWRB funding programs, development of cooperative regional solutions, and early engagement with federal, state, tribal, and local partners. Inclusion on the RWS Priority List does not constitute a funding commitment, but elevates a project for consideration, supports coordination, and enables the Board to advocate for funding and technical resources (federal and state).

This document outlines the requirements and considerations for project sponsors seeking inclusion on the RWS Priority List. Inclusion on the RWS List is not a funding commitment, but rather a recognition that the project has the potential to help achieve water sustainability or address a regional water related issue.

### I. Regional Water Sustainability Priority List Eligibility Criteria:

Projects added to the RWS Priority List provide regional scale benefits and meaningfully contribute to long-term water sustainability in Idaho. These projects generally fall into the following categories:

- **Aquifer Stabilization**  
Projects that help reverse declining groundwater trends, improve aquifer storage, and strengthen long-term water reliability.
- **Regional Water Supply and Water Management**  
Projects that support long-term water planning or management through analysis, improved regional data collection, modeling, forecasting, or basin-wide evaluations that improve understanding of water availability, trends, infrastructure needs, hydrologic interactions, or future demands.
- **Infrastructure Modernization and Rehabilitation**  
Upgrades or replacement of aging storage, diversion, and delivery systems that impact multiple users, or address infrastructure at risk of failure with regional consequences.
- **Surface Water Storage and Operational Improvements**  
Projects that enhance reservoir capacity, optimize operations, improve system connectivity, or enable more effective management of surface and groundwater resources. This includes the development of new surface water storage, protection of existing storage assets, and enhancement of statewide storage capacity, consistent with legislative direction in House Joint Memorial No. 14 (2026), the Idaho State Water Plan, and IWRB strategic priorities for long-term water supply reliability and resilience.
- **Multi-Benefit and Integrated Water Management Projects**  
Projects affecting a regional area involving multiple partners or districts that improve drought resilience, protect existing water rights, support hydropower, improve water quality, or provide other regional water management benefits.

**Eligible Entities:**

Entities eligible to submit a request include:

- Irrigation Districts, Irrigation Boards of Control, Canal Companies, and Water Districts
- Drainage Districts, Flood Control Districts, Groundwater Districts, and Soil & Water Conservation Districts,
- Municipal Irrigation Districts (Title 50, Chapter 18, Idaho Code)
- Regional Water Supply Organizations
- Federal and state agencies, tribes, and municipalities,

**Eligible Geographic Area:**

Statewide.

**Eligible Projects / Programs:**

Projects or programs must provide regional scale water sustainability benefits.

To qualify, a project must meet all of the following:

- Address a significant regional water sustainability issue, such as declining groundwater

levels, surface-groundwater interaction challenges, enhancement of water supply, drought resilience, aging or inadequate delivery or storage systems, infrastructure deficiencies that pose demonstrable safety risk, or anticipated water supply conflicts.

- The primary purpose of the project must provide benefits that extend beyond a single entity and improve water management at the basin or regional level.
- Align with the sustainability goals outlined in the Idaho State Water Plan, including active stewardship, protection of existing water rights, and support for future water needs.

**Ineligible Projects:**

Municipal drinking water or wastewater system improvements, and projects whose primary purpose is to serve or benefit only a single entity, do **not** qualify for inclusion on the List.

**II. Required Proposals Materials**

Sponsors requesting inclusion on the RWS Priority List must submit a written request containing the following:

**1. Cover Letter**

- Project name, sponsor, and geographic area
- Brief project summary
- Sponsor contact information

**2. Project Background**

- Description of existing infrastructure or system
- Identify regional water supply issues, deficiencies, risks, or declining trends
- Objectives and anticipated benefits

**3. Sponsor Description**

- Organization type, governance structure, and operational background
- Service area and population served (if applicable)
- Revenue sources and financial capacity to complete the project
- Overview of current operations relevant to the project

**4. Project Description**

- Narrative project / program overview
- Map showing project location and regional context
- Conceptual design or plan, if available
- Known permitting requirements

- Environmental considerations

**5. Additional Information (If Available)**

- Preliminary cost estimates and budget
- Potential funding sources
- Proposed project schedule

**6. Required Demonstrations (Critical for Evaluation)**

Proposals **must clearly address** the following:

- **Define the regional issue**  
Identify the basin-wide or regional water sustainability challenge being addressed, including whether it represents a long-standing or emerging issue.
- **Explain how the project addresses the regional issue**  
Describe the mechanism (e.g., managed recharge, infrastructure or operational improvements, construction of new infrastructure, etc.)
- **Demonstrate regional support**  
Provide evidence such as letters, MOUs, partnerships, or stakeholder endorsements.
- **Identify and quantify impact(s) to the regional issue**  
Include metrics such as water savings, recharge volumes, impact to groundwater levels, heightened reliability, improved safety, economic, or environmental conditions, or other measurable outcomes.
- **Identify and quantify all potential impacts (positive and negative)**  
Impacts to groundwater and surface water, hydrologic impacts locally and regionally, alignment with regional settlement agreements, operational changes, construction disturbance, and/or long-term benefit.

**III. IWRB Considerations**

The IWRB takes into account a wide range of factors when considering potential projects for the RWS Priority List. Projects that are not chosen to be on the RWS Priority list may be eligible for other IWRB programs. The IWRB is guided by direction from the Governor and Idaho Legislature through funding allocations and related directives, including:

- Senate Concurrent Resolution No. 137 (2016) – directs the IWRB address statewide aquifer stabilization and sustainability projects and studies in key basins within the state.
- House Concurrent Resolution No. 7 (2023) – directs the IWRB to establish a long-term plan that identifies future projects intended to protect, improve, and secure the state’s water resources for the benefit of the citizens of the state and for future generations.

- Senate Concurrent Resolution No. 110 (2025) – recognizes the need to continue activities by water users and the IWRB to improve Snake River reach gains between Blackfoot and the Minidoka Dam to support the 2024 Stipulated Mitigation Plan.
- House Joint Memorial No. 14 (2026) - supports the development of new reservoirs through research on the feasibility, planning, and design for the raising of current dams and the development of new dams to create 750,000 acre-feet of new water storage.

Additional prioritization factors that may affect prioritizations of projects include:

- Ability to resolve long-standing or emerging water supply challenges
- Magnitude and regional scale of benefits
- Contribution to aquifer stabilization or groundwater recovery
- Protection of existing water rights and consideration of benefits to hydropower, fish and wildlife, recreation, and water quality
- Anticipation of future water demands, including municipal, agricultural, or industrial development
- Modernization or improvement of aging water infrastructure
- Development of new surface water storage, protection of existing storage assets, and enhancement of statewide surface water storage capacity

#### **IV. IWRB Support – what type of support can the IWRB provide?**

##### **Funding Support**

- Eligibility for IWRB funding programs for planning, design, or implementation phases
- Cost-share participation determined on a case-by-case basis, considering project scope, regional benefit, and sponsor capacity
- Potential for phased funding (e.g., feasibility, design, construction)
- Inclusion on the RWS Priority List may improve competitiveness for state and federal funding opportunities

##### **Advocacy and Funding Coordination**

- Advocacy for state and federal funding, including coordination with agencies such as the Bureau of Reclamation and U.S. Army Corps of Engineers
- Support for legislative awareness and potential appropriations aligned with statewide water priorities
- Inclusion in broader state water resource initiatives or funding strategies

##### **Technical Assistance**

- Support for hydrologic analysis, modeling, and data evaluation

May 2026

- Assistance with feasibility studies and alternatives analysis
- Coordination and integration with statewide data and monitoring efforts
- Facilitation of interagency technical collaboration

**Project Development and Coordination**

- Assistance refining project scope, phasing, and alternatives
- Support in identifying and coordinating regional partners
- Convening stakeholders to advance multi-entity or basin-wide solutions

**V. Additions to the RWS Priority List:**

The IWRB may add projects to the RWS Priority List at its discretion. Project sponsors may submit a request at any time.

IWRB staff will work with the Project Sponsor to ensure the application is complete and the project meets the eligibility criteria. A complete application will be presented to the IWRB for consideration.

**Submittal Instructions**

Requests must be submitted electronically to:

**IWRB-Info@idwr.idaho.gov**

# MEMO



**To:** Idaho Water Resource Board Finance Committee

**From:** Mary Condon

**Date:** May 1, 2026

**Subject:** Regional Water Sustainability Project Priority List – Winchester Dam Repair

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**REQUESTED ACTION:** Consider Adding Winchester Dam to the RWSP Priority List and Funding

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The Idaho Department of Fish and Game (IDFG) is requesting support and financial assistance from the Idaho Water Resource Board (IWRB) to rehabilitate Winchester Dam in the amount of \$1M for the \$3.6M project.

Deputy Director Amber Worthington will provide an overview of the project and their funding request with a PowerPoint presentation. The formal application and cover letter from IDFG are included in your materials. Additionally, a draft version of the Resolution and Terms to add the Winchester Dam repair project and \$1,000,000 in funding is also attached for consideration by the Finance Committee.

**Attachments:**

- *IDFG Funding Request Letter*
- *IDFG Funding Request Application*
- *Draft IWRB Resolution and Terms to add Winchester Dam to the Regional Water Sustainability Program Priority List and Funding*



**IDAHO DEPARTMENT OF FISH AND GAME**

600 S Walnut / P.O. Box 25  
Boise, Idaho 83707

Brad Little / Governor  
Jim Fredericks / Director

April 28, 2026

Mary Condon  
Idaho Department of Water Resources  
P.O. Box 83720  
Boise, ID 83720  
[IWRB-Info@idwr.idaho.gov](mailto:IWRB-Info@idwr.idaho.gov)

Re: Request for inclusion on IWRB's Regional Water Sustainability Priority List for repairs to Winchester Lake Dam.

Dear Mary:

On behalf of the Department, I am submitting a letter of request and applicable materials to be considered for inclusion on the Idaho Water Resources Board Regional Water Sustainability Priority List.

Please find responses below to requirements of the application process.

**Description of Proposed Project:**

The project will rehabilitate Winchester Lake Dam by adding capacity to the spillway. Additionally, the upstream surface will be outfitted with a geomembrane liner system to deter seepage through the dam surface.

The work will reduce the amount of water at the toe of the dam entering Lapwai Creek and create the necessary capacity to ensure the dam can safely convey a 500-year flood condition.

**Name of Eligible Entity and Project Partners with Contacts:**

Idaho Department of Fish and Game  
600 S. Walnut St., Boise, ID 83712

The Department will be working with Idaho Department of Parks and Recreation (IDPR – Kathy Muir) to apply for the Land and Water Conservation Fund (LWCF) grant, administered through IDPR.

**Total Project Costs:**

Engineering estimate on 12/8/2025 provided a range between \$2,800,000 and \$3,600,000 (median \$3,116,700), not including construction oversight.

Request of IWRB: \$1,000,000

LWCF (IDPR): \$1,000,000

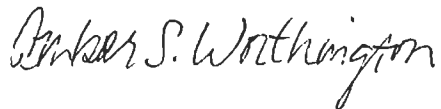
IDFG will fund remaining amount through dedicated and/or federal funds.

IDFG will request spending authority in the next budget cycle (FY 2028) to cover the amount of spending authority anticipated for the project.

### **Estimated Project Start and End Dates**

Design work, including drilling exploration, spillway design, and slurry wall design was completed in 2025. Construction is anticipated to begin July 1, 2027 and is projected to be completed by June 30, 2028. It is possible the project may be completed sooner than the June 30, 2028 completion date, depending on supply chain and sourcing of materials.

Regards,



Amber S. Worthington

Idaho Department of Fish and Game  
Deputy Director

Encl: Grant Funding Request

# Grant Funding Request – May 2026

## IWRB Regional Water Sustainability Projects Priority List

Winchester Lake Dam Rehabilitation  
Winchester, Idaho

Submitted by:

Idaho Department of Fish and Game  
600 S. Walnut St., Boise, ID 83712

## Project Background<sup>1</sup>

Winchester Dam was built in the early 1900s when the Craig Mountain Lumber Company constructed the dam at the headwaters of Lapwai Creek for a mill pond. Ownership of the dam and surrounding properties changed hands multiple times prior to the Idaho Department of Fish and Game (IDFG) finally acquiring the dam and properties from Potlatch, Inc. in 1966. The dam is 40 ft high and located on the northern portion of Lapwai Lake (Winchester Lake) and situated within Winchester State Park, outside of Winchester, Idaho.

The dam composition changed over the years, beginning as a timber crib dam with clay-silt-sand-basalt fragment mixtures - reported to have initially leaked so much that material was added on the upstream slope to control the leakage. Additional material was periodically added to the embankment for a number of years to reduce leakage until the present crest width of approximately 140 feet was achieved.

At some point prior to IDFG's acquisition, a core wall was added as well as a 36-inch low level outlet conduit at the foundation. The outlet was determined to be leaking soon after construction and was subsequently plugged. Despite the measures taken, the dam continued to leak at the downstream toe. According to a 1948 Idaho Department of Water Resources report, the concrete core wall was damaged when part of the original timber spillway failed, leading to erosion on the downstream embankment. The loss of support caused the wall to bulge downstream and crack horizontally. Repairs were reportedly made and embankment material was replaced with nearby hillside material.

Upon acquisition in 1966, IDFG began design and construction work on a concrete spillway and cutoff wall. The IDFG engineer at the time recommended removal and replacement of the spillway, installation of a steel siphon for treatment and maintenance and plugging of the old outlet works to minimize existing leaks in the structure.

In March and July 1980, remedial grouting to reduce observed leakage of the downstream toe was done but was supposedly unsuccessful in stopping or reducing leaks. In 1984, IDFG performed extensive stabilization work. Some additional work has been completed over the years.

A semi-quantitative risk analysis was performed by McMillen Jacobs in 2022 as part of an effect analysis for Idaho Department of Water Resources (IDWR). IDWR previously rated Winchester Dam as high-hazard signifying that "...if failure were to occur, the resulting consequences likely would be a direct loss of human life and extensive property damage. For this reason all high-hazard dams must be properly designed, and at all times responsibly maintained and safely operated." Through the analysis, it was assessed that overall risk of dam failure was above "tolerable risk thresholds" showing "active leakage at and around the downstream end of the spillway and the presence of sink holes at the upstream end of the spillway."

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<sup>1</sup> Project background information compiled from McMillen Jacobs *Winchester Dam Assessment Phase I Report* (January 8, 2024) IDWR, and IDFG archives.

Based off past inspection reports, IDFG decided to begin the design process to rehabilitate the dam in 2023. The site was visited in July 2023 by a project team consisting of IDFG engineers and other staff, IDWR's dam safety program manager, and McMillen staff to conduct a site visit and research for an alternatives analysis. McMillen drafted the Winchester Dam Assessment, Phase 1 Report which provided alternatives for dam rehabilitation and a high level of cost estimates.

In 2024, Idaho Department of Administration's Risk Management Program was seeking to reinsure the Winchester Lake Dam as part of routine process and asked IDFG for the latest inspection report. The most current inspection report from IDWR showed a poor rating for the spillway and that it required remediation to move from a poor to sufficient rating. The insurance company determined it would not insure the dam until the rating changed to sufficient and that IDFG could not impound water to full level due to potential flood concerns. As a mitigation strategy, IDFG removed fuse plugs which were increasing the water holding capacity and was able to lower the water 40 inches, thereby satisfying the insurance company.

Lowering the water 40 inches is not a long-term solution for that reservoir as it affects recreation at Winchester Lake State Park, fishing opportunities due to algal blooms, and most importantly the local community that relies upon tourism to the region.

In 2024, IDFG selected the alternative to rebuild the spillway and install a geomembrane liner to mitigate seepage. To fund the design work and drilling exploration IDFG was awarded ARPA money through the Outdoor Recreation Fund Advisory Committee for design work in December 2024. IDFG selected McMillen for design work which was delivered with the engineering estimate in December of 2025.

Design work was issued to IDWR for review and was approved February 23, 2026.

## **Project Sponsor(s)**

Type of Organization – Idaho state department

Official Name:

Idaho Department of Fish and Game

600 S. Walnut St.

P.O. Box 25

Boise, ID 83707

In 1899, Idaho created the position of state game warden to protect the state's wildlife resources, which eventually evolved into the modern Idaho Department of Fish and Game (IDFG). And, in 1938 through a voter initiative, Idaho Fish and Game Commission (Commission) was established.

IDFG is primarily funded by fish and game license sales and also through federal excise taxes from the Pittman-Robertson Act and Dingell-Johnson Act. IDFG receives zero General Fund dollars from taxpayers.

IDFG consists of seven regions, each supervised by a regional supervisor, and a headquarters based in Boise, Idaho. The Commission, which is appointed by the Governor and confirmed by the Legislature, oversees the agency through the Director who is currently appointed by the Commission. On July 1, 2026, the Director will also be appointed by the Governor and confirmed by the Legislature with continued oversight from the Commission. The headquarters is the Director's base and consists of two deputy directors who oversee the regions and bureaus – Fisheries, Wildlife, Enforcement, Administration, Communication, and Technical Services – and the director also manages the Engineering Bureau Chief and the Legislative and Community Engagement Coordinator.

IDFG's work is guided by its mission, principles of ethical hunting and fair chase, and the public trust doctrine – which ensures fish and wildlife remain a shared, publicly managed resource available to all.

## Project Description

The rehabilitation work will include adding capacity to the spillway by creating an ogee crested weir spanning the entire length of the spillway and raising the spillway chute walls to contain the required flows. In addition, the upstream surface will be outfitted with a geomembrane liner system to deter seepage through the dam surface and reduce the amount of water at the toe of the dam entering Lapwai Creek.

Work will include components of demolition, concrete formation, anchor installation, temporary berm structure, earthwork, dewatering, and erosion and sedimentation controls.

Map showing location of the project in Winchester, ID:



Fig. 2: Winchester Dam is approximately 34 miles southeast of Lewiston.

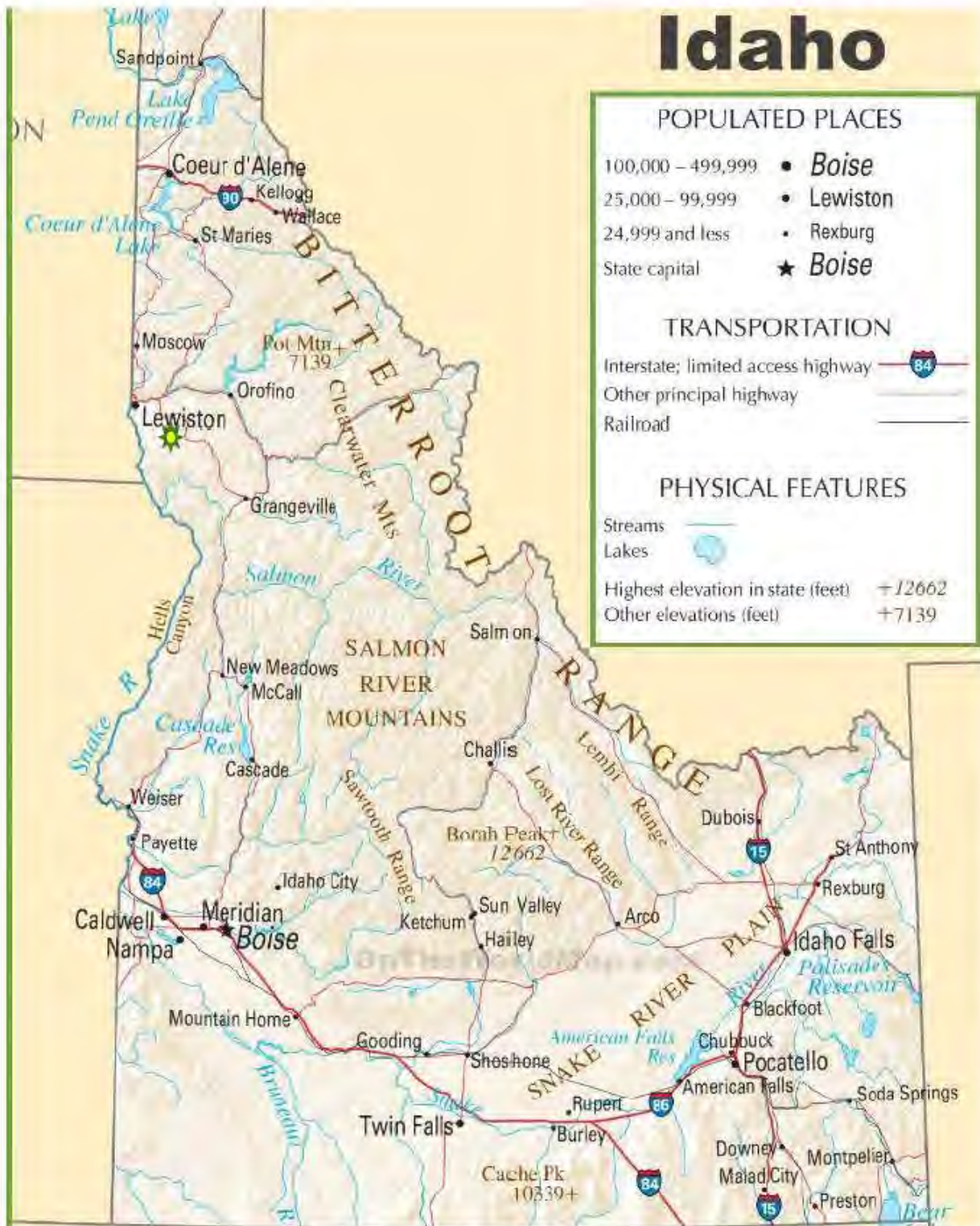


Fig. 1: ★ Indicates approximate location of Winchester State Park (Winchester Dam)

Plan and design carried out by McMillen Jacobs firm and is found in **Appendix A**.

Land entitlements at location: Dam and surrounding property owned by Idaho Department of Fish and Game. Record snapshots from Lewis County Assessor



1 of 2

**RP33N02W052800 : IDAHO STATE OF DEPT OF FISH & GAME**

Zoom to

The parcel number is RP33N02W052800

Owner Name: IDAHO STATE OF DEPT OF FISH & GAME

Address: 5 33 2W 120.39 Ac S 5 A In Lot 5, S 5 A In Lot 6 S 10 A In Lot 7, All Lot 8 S1/2nw1/4

Acres: 122.60

**Taxing Districts:**

Tax Code Area: 0520000

City:

Fire: WINCHESTER FIRE PROTECTION DISTRICT

Highway: EVERGREEN HIGHWAY

Library: PRAIRIE RIVER LIBRARY

School: HIGHLAND SCHOOL #305



1 of 2

**RP33N02W060100 : IDAHO STATE OF DEPT OF FISH & GAME**

Zoom to

The parcel number is RP33N02W060100

Owner Name: IDAHO STATE OF DEPT OF FISH & GAME

Address: 6 33 2W Ne1/4 S Of Im-na-ha Dr & Vacated Portion Of Im-na-ha Dr Adj To Blk 4 Of Winch (Less 25'X110' In N Lot 3)(2 A Rd)

Acres: 161.90

**Taxing Districts:**

Tax Code Area: 0520000

City:

Fire: WINCHESTER FIRE PROTECTION DISTRICT

Highway: EVERGREEN HIGHWAY

Library: PRAIRIE RIVER LIBRARY

## **Cost Estimate and Budget**

\$2,800,000.00 - \$3,600,000.00 – does not include construction oversight (engineering estimate in Appendix B)

## **Project Funding Sources (if awarded)**

Idaho Water Resource Board Grant - \$1,000,000.00

Land and Water Conservation Fund (IDPR) - \$1,000,000.00

Idaho Department of Fish and Game License Funds - \$1,000,000.00 - \$1,600,000.00

Spending authority will be required for IDFG to expend all monies.

## **Implementation Schedule**

Exact schedule won't be established until the work is bid out and a contractor is selected. This is an idea of scope for activities:

- Out for Bid and Contractor selection – 3 months
- Notice to Proceed – 1 month
- Carpi Liner – 6 months
  - Procurement
    - Carpi requires 6 weeks to submit engineering drawings for approval
    - Carpi Fabrication 12-16 weeks
    - Float – 2 weeks
    - Total – 6 months
  - Site Prep – Can be completed during liner fabrication window
  - Concrete Demo – Can be completed during liner fabrication
  - Spillway Work – Upstream spillway concrete construction must be complete prior to liner installation (includes ogee weir, but not spillway chute walls)
  - Liner Installation – 4 weeks
- Finish Work – 1 month
- Project Total – 13 months
  - 4 months of pre-construction activities (contractor selection)
  - 9 months of construction activities

The project can either commence once the IDFG budget is set in March of 2027 or will commence upon receiving the spending authority officially on July 1, 2027.

## **Inclusions**

### **Public Interest and Economic Impact**

Winchester Lake is an important waterbody for fish and wildlife in the area. It hosts waterfowl, deer, elk, and moose as well as a good fishery for rainbow trout, bluegill, tiger muskie, perch and bass. The lake is at the center of Winchester Lake State Park and covers 100 acres with depth up to 35 feet. It is an ideal place to recreate for the wildlife, solitude, and water recreation.

The drawdown of Winchester Lake Dam has significantly impacted both the Winchester community and the revenue of Winchester Lake State Park. The lake serves as a central hub for recreation and plays a crucial role in supporting the local economy. Many businesses depend on tourism tied directly to the lake and park, and reports indicate that declining revenue has led to staff reductions and some closures. Additionally, the park has experienced a drop in reservations, largely due to the loss of water-based activities caused by lower lake levels.

In **Exhibit A**, you will find a letter of support from the community.

The dam's stability is extremely important, not only for impoundment of water for recreation and community benefit but especially for protecting the downstream communities of Culdesac and Lapwai, and the drivers on Highway 95. **Appendix C** includes analyses on potential failure modes of certain parts of the dam to downstream communities and roadways. The report also provides history on each of those parts from construction and various rehabilitation.

### **Other Relevant Documentation**

**Exhibit B** – IDWR Design Approval Letter

# Appendix A



IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM  
Reviewed [Signature]  
Approved [Signature]  
Date of Approval 1.29.26

IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

VOLUME 2 - CONSTRUCTION DRAWINGS  
DECEMBER, 2025

ISSUED FOR CONSTRUCTION

# IDAHO DEPARTMENT OF FISH AND GAME

## WINCHESTER DAM REHABILITATION

### ISSUED FOR CONSTRUCTION

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*  
Approved: *[Signature]*

Date of Approval: 11 28 26



N  
**LOCATION MAP**  
NTS



N  
**LOCATION MAP**  
NTS



N  
**PROJECT MAP**  
NTS

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

LOCATION MAP, VICINITY MAP,  
AND PROJECT MAP

DESIGNED M. MERKLEIN  
DRAWN C. GERBER  
CHECKED R. SCOTT  
PROJECT DATE 12/19/25

DRAWING  
**G001**

DRAWING NO.	TITLE
	COVER SHEET
G001	LOCATION MAP, VICINITY MAP, AND PROJECT MAP
G002	DRAWING INDEX
G003	STANDARD ABBREVIATIONS
G004	STANDARD SYMBOLS
G005	EXISTING OVERALL SITE PLAN AND PROJECT CONTROL
G006	GENERAL SITE PLAN, CONTRACTOR STAGING, AND GENERAL ARRANGEMENT
G007	HYDRAULIC PROFILE AND DESIGN CRITERIA
EC001	EROSION AND SEDIMENT CONTROL STANDARD DETAILS 1
EC002	EROSION AND SEDIMENT CONTROL STANDARD DETAILS 2
EC101	EROSION AND SEDIMENT CONTROL PLAN
D101	DEMOLITION PLAN
D102	DEMOLITION SECTIONS AND DETAILS 1
D103	DEMOLITION SECTIONS AND DETAILS 2
GC001	GENERAL CIVIL NOTES
GC002	CIVIL STANDARD DETAILS
GC003	INSTRUMENTATION DETAILS
C100	OVERALL SITE KEY PLAN
C101	COFFERDAM/DEWATERING PLAN
C102	COFFERDAM/DEWATERING SECTIONS AND DETAILS
C103	EXCAVATION PLAN
C104	EXCAVATION SECTIONS
C105	FINAL GRADING PLAN
C106	FINAL GRADING SECTIONS
C107	SIPHON EXTENSION PLAN AND PROFILE
C201	LINER SYSTEM AND INSTRUMENTATION PLAN
C202	LINER SYSTEM SECTIONS AND DETAILS 1
C203	LINER SYSTEM SECTIONS AND DETAILS 2
C300	OUTFALL PIPE REROUTING PLAN AND PROFILE
GS001	GENERAL STRUCTURAL NOTES
GS002	STANDARD STRUCTURAL DETAILS 1
GS003	STANDARD STRUCTURAL DETAILS 2
S101	STRUCTURAL OVERALL SITE PLAN
S102	SPILLWAY STRUCTURAL PLAN AND PROFILES
S103	SPILLWAY STRUCTURAL SECTIONS
S104	SPILLWAY STRUCTURAL DETAILS 1
S105	SPILLWAY STRUCTURAL DETAILS 2

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed [Signature]

Approved [Signature]

12 28 26

Date of Approval \_\_\_\_\_

REV	DATE	BY	DESCRIPTION
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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

DRAWING INDEX

DESIGNED M. MERKLEIN  
DRAWN C. GERBER  
CHECKED R. SCOTT  
PROJECT DATE 12/19/25

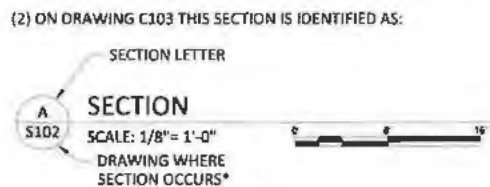
DRAWING  
**G002**



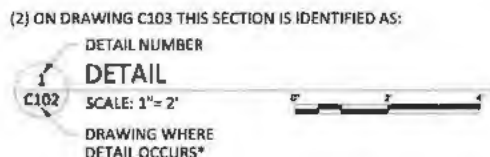
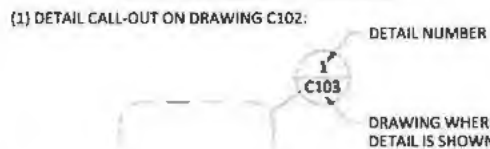
SHEET SYMBOLS



SECTION IDENTIFICATION

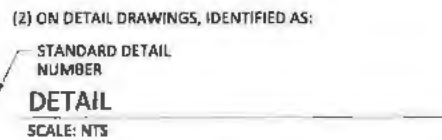


DETAIL IDENTIFICATION



\*NOTE: IF PLAN AND SECTION (OR DETAIL CALL-OUT AND DETAIL) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

STANDARD DETAIL IDENTIFICATION



ELEVATION/IMAGE IDENTIFICATION



SITE PLAN LINE TYPES

455	MAJOR CONTOUR
456	MINOR CONTOUR
455	EXIST MAJOR CONTOUR
456	EXIST MINOR CONTOUR
TOE	EDGE OF WATERLINE
TOB	TOE OF BANK
SS	SANITARY SEWER
SD	STORM DRAIN
EP	EDGE OF PAVEMENT
EG	EDGE OF GRAVEL
W	WATTLE
SF	SILT FENCE
CF	CONSTRUCTION FENCE
GAS	GAS LINE
TC	TURBIDITY CURTAIN
IRR	IRRIGATION LINE
WTR	WATER LINE
TEL	TELEPHONE LINE
COM	COMMUNICATION LINE
DHP	OVERHEAD ELECTRICAL/POWER
EUG	UNDERGROUND ELECTRICAL
UF	UNDERGROUND FIBER
P/L	PROPERTY LINE
X	FENCE LINE
D/F	DITCH/FLOW LINE
TOI	EXIST TOE OF SLOPE
TOB	EXIST TOP OF BANK
SS	EXIST SANITARY SEWER
SD	EXIST STORM DRAIN
EP	EXIST EDGE OF PAVEMENT
EG	EXIST EDGE OF GRAVEL
GAS	EXIST GAS LINE
IRR	EXIST IRRIGATION LINE
WTR	EXIST WATER LINE
TEL	EXIST TELEPHONE LINE
COM	EXIST COMMUNICATION LINE
DHP	EXIST OVERHEAD ELECTRICAL/POWER
EUG	EXIST UNDERGROUND ELECTRICAL
P/L	EXIST PROPERTY LINE
X	EXIST FENCE LINE
D/F	EXIST DITCH/FLOW LINE
---	LIMITS OF DISTURBANCE

SITE PLAN SYMBOLS

	ARROW INDICATES DIRECTION OF PLAN NORTH
	CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.
	DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.
	MANHOLE
	STORM DRAIN MANHOLE
	FIRE/YARD HYDRANT
	SURVEY CONTROL POINT, AS NOTED.
	POLE ANCHOR
	POWER POLE
	LIGHT POLE
	SIGN
	SURVEY HUB
	SECTION CORNER
	BENCH MARK
	STATE PLANE COORDINATE MARKER
	EXISTING SECTION CORNER MONUMENT FOUND AS DESCRIBED
	EXISTING CONTROL POINT MONUMENT, BORING LOCATION
	TEST PIT LOCATION
	2025 GEO TECHNICAL BOREHOLE BY SLATE
	TELEPHONE PED

SHEET NOTE SYMBOLS

	CONTROL POINT LABEL, AS NOTED.
	SHEET KEY NOTE LABEL, AS NOTED.
	EQUIPMENT LABEL, AS NOTED.
	PIPE CALLOUT LABEL, AS NOTED.

MISCELLANEOUS SYMBOLS

	CHANGE OF PIPE MTL
	END OF PIPE
	DIAMETER
	PLUS/MINUS

HATCH SYMBOLS

	ROCK/GRAVEL, TYPE AS NOTED (PLAN/SECTION)
	EXIST ROCK/GRAVEL, TYPE AS NOTED (PLAN/SECTION)
	BED ROCK
	NEW SOIL/FINISH GRADE (SECTION)
	EXISTING GRADE (SECTION)
	CONCRETE EXISTING (SECTION/PLAN)
	CONCRETE 1ST STAGE (SECTION/PLAN)
	CONCRETE 2ND STAGE (SECTION/PLAN)
	SAND, GROUT (PLAN/SECTION)
	IRON, BRICK, STONE MASONRY (PLAN/SECTION)
	STEEL (SECTION)
	BRONZE, BRASS, COPPER (SECTION)
	PLASTIC, RUBBER (SECTION)
	LEAD, ZINC, MAGNESIUM (SECTION)
	ALUMINUM (SECTION)
	GRATING (PLAN)
	EXIST GRATING (PLAN)
	RIP RAP (PLAN/SECTION)
	EXIST RIP RAP (PLAN/SECTION)
	ASPHALT SURFACE (PLAN/SECTION)
	EXIST ASPHALT SURFACE (PLAN/SECTION)
	GRASS/VEGETATION (PLAN)
	EXISTING TO BE REMOVED OR DEMOLISHED
	CLEARING AND GRUBBING

GENERAL NOTES:

- ALL SYMBOLS ARE NOT NECESSARILY USED. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLS ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed

Approved

1 28 26

Date of Approval \_\_\_\_\_

0	12/19/25	MM	ISSUED FOR CONSTRUCTION
REV	DATE	BY	DESCRIPTION



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

STANDARD SYMBOLS

DESIGNED	M. MERKLEIN
DRAWN	C. GERBER
CHECKED	R. SCOTT
PROJECT DATE	12/19/25

DRAWING  
**G004**



EXISTING OVERALL SITE PLAN AND SURVEY CONTROL  
SCALE: 1" = 30'

**SHEET NOTES:**

**SITE ADDRESS**

GENERAL AREA OF:  
NORTH SPILLWAY/DAM  
WINCHESTER LAKE  
618 JOSEPH AVE  
WINCHESTER IDAHO 83555

**BASIS OF BEARINGS**

BEARINGS ARE BASED ON IDAHO STATE PLANE WEST ZONE 1103,  
NAD83(2011) EPOCH 2010 USING GEOID18.

**VERTICAL CONTROL**

NGVD29 DATUM AS OBTAINED FROM TRIMBLE RTX SYSTEM AND  
CONFIRMED AT NSG DATA STATION K24 (R20253).  
THE CONVERSION AT THIS STATION WAS CALCULATED USING THE ONLINE  
NGS DATA CONVERSION TOOL (HTTPS://WWW.NGS.NOAA.GOV/NCAT)  
AND FOUND TO BE -3.63 FEET: K24 ELEVATION NAVD88=3972.10.  
K24 ELEVATION CONVERTED TO NGVD29=3968.47, HELD FOR THIS SURVEY.

SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1667364.19	2404808.34	3913.13	TDH 60D WSHR R
2	1667502.84	2404821.13	3908.65	TDH 60D WSHR
3	1667390.92	2404573.61	3907.72	TDH 60D WSHR
4	1667453.74	2404580.68	3911.32	TDH 60D WSHR CP3 RTX ADJ FINAL 29

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

1 28 26

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WARNING  
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MEASURE 1" THEN  
DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

EXISTING OVERALL SITE PLAN  
AND PROJECT CONTROL

DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

DRAWING  
G005



**SHEET NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGH THE DURATION OF THE PROJECT AND ACCORDING TO THE CONTRACT SPECIFICATIONS.
2. CONTRACTOR SHALL REGRADE AND VEGETATE DISTURBED SLOPES NEAR EXISTING CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE. ALL FINISHED CONSTRUCTED SLOPES SHALL HAVE BIODEGRADABLE FIBER WATTLES INSTALLED AT THE TOE OF THE FINISHED SLOPE.
3. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES, FENCING, AND STAGING AREA MATERIALS WHEN CONSTRUCTION IS COMPLETE. NO CONSTRUCTION DEBRIS, DEMOLITION MATERIALS, OR EXCESS EQUIPMENT SHALL BE LEFT ON SITE.
4. GENERAL CONTRACTOR STAGING AREA SHOWN. CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT EXTENTS AND FENCING LOCATION.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed [Signature]

Approved [Signature]

1 28 26

Date of Approval \_\_\_\_\_

**GENERAL SITE PLAN, CONTRACTOR STAGING AND GENERAL ARRANGEMENT**

SCALE: 1" = 50'



REV	DATE	BY	DESCRIPTION
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**WARNING**  
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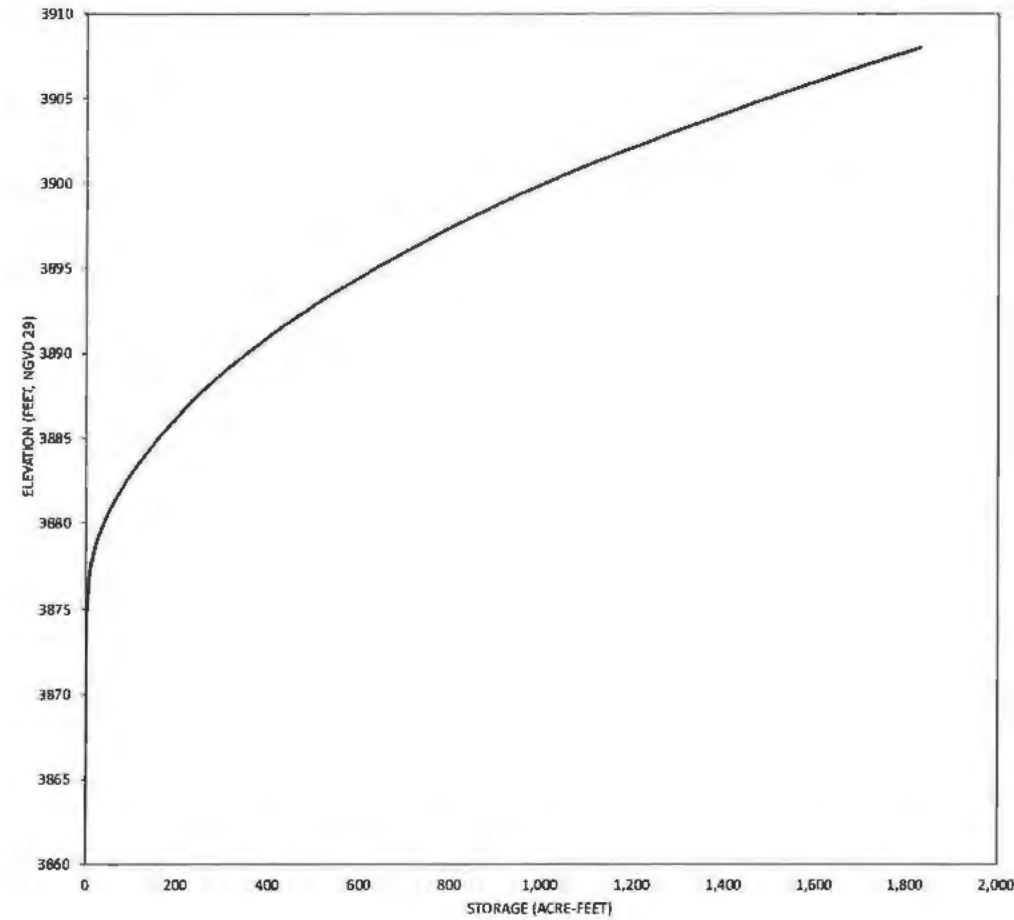
IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

GENERAL SITE PLAN, CONTRACTOR STAGING,  
AND GENERAL ARRANGEMENT

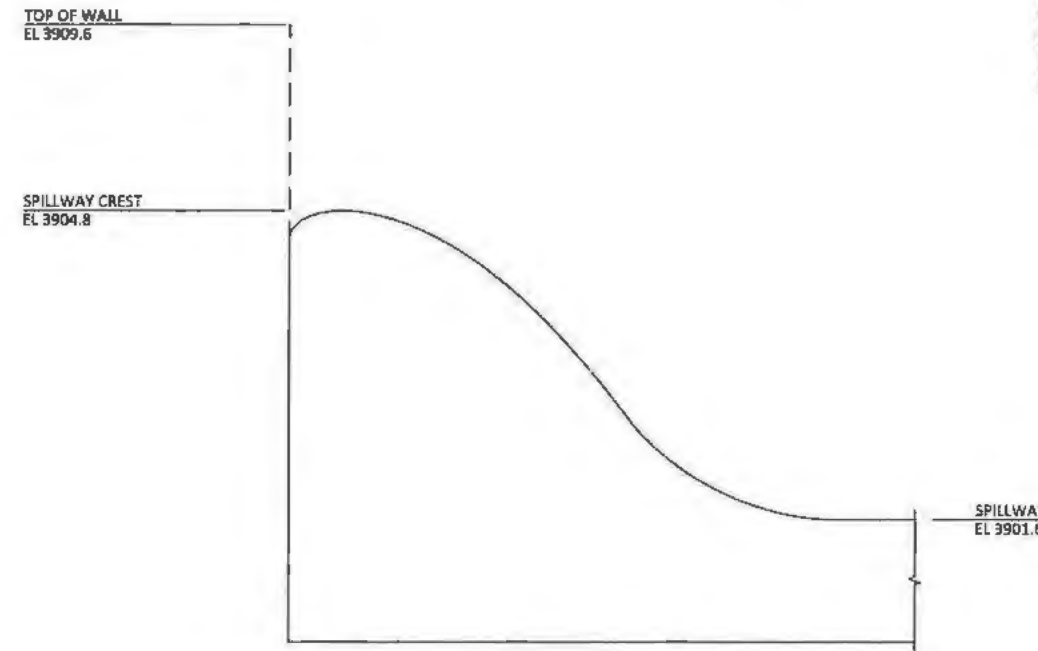
DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

DRAWING  
**G006**

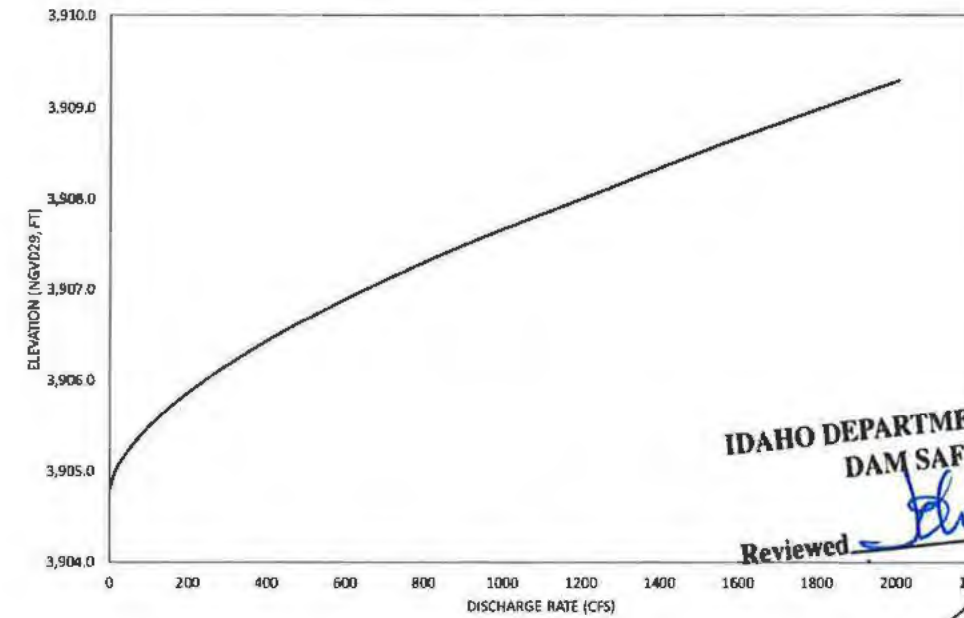
CRITERIA	UNIT	VALUE
DAM HEIGHT	FT	40
MAX OPERATING POOL EL	FT	3904.8
MAX INFLOW DESIGN FLOOD EL	FT	3906.9
MAX INFLOW DESIGN FLOOD OUTFLOW	CFS	603.0



**WINCHESTER LAKE STAGE STORAGE CURVE**  
SCALE: NTS



**OPERATING SECTION**  
SCALE: NTS



**SPILLWAY RATING CURVE**  
SCALE: NTS

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*

Approved: *[Signature]*

12 28 26

Date of Approval

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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

HYDRAULIC PROFILE  
AND DESIGN CRITERIA

DESIGNED: P. GALASKA  
DRAWN: C. GERBER  
CHECKED: S. KLAWITTER  
PROJECT DATE: 12/19/25

DRAWING  
**G007**

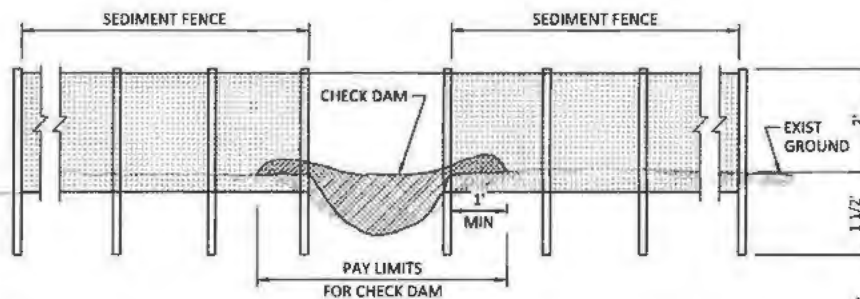
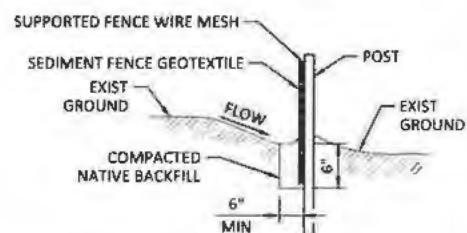
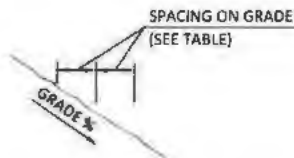
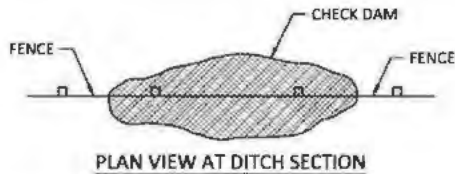
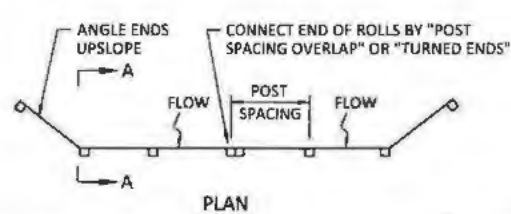


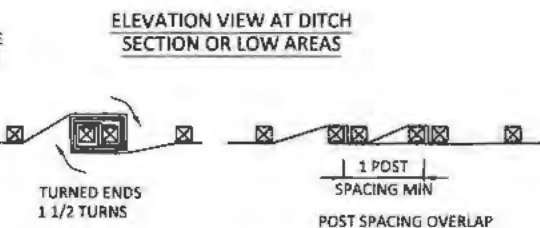
TABLE 1  
FENCE SPACING FOR GENERAL APPLICATION  
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
GRADE < 0%	300'
10% < GRADE < 15%	150'
15% < GRADE < 20%	100'
20% < GRADE < 30%	50'
30% < GRADE	25'

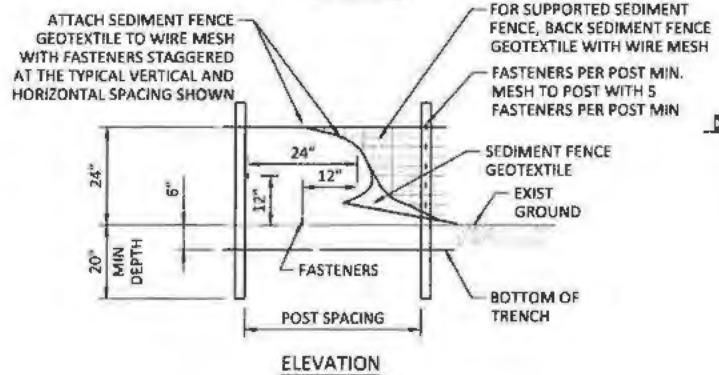
TABLE 2  
POST SPACING

4'	SUPPORTED SEDIMENT FENCE
6'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * LESS THAN 50%
4'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * MORE THAN 50%

\* GEOTEXTILE GRAB ELONGATION VALUE AS DOCUMENTED BY "LEVEL B" MANUFACTURER'S DOCUMENTATION (SEE STANDARD SPECIFICATIONS).

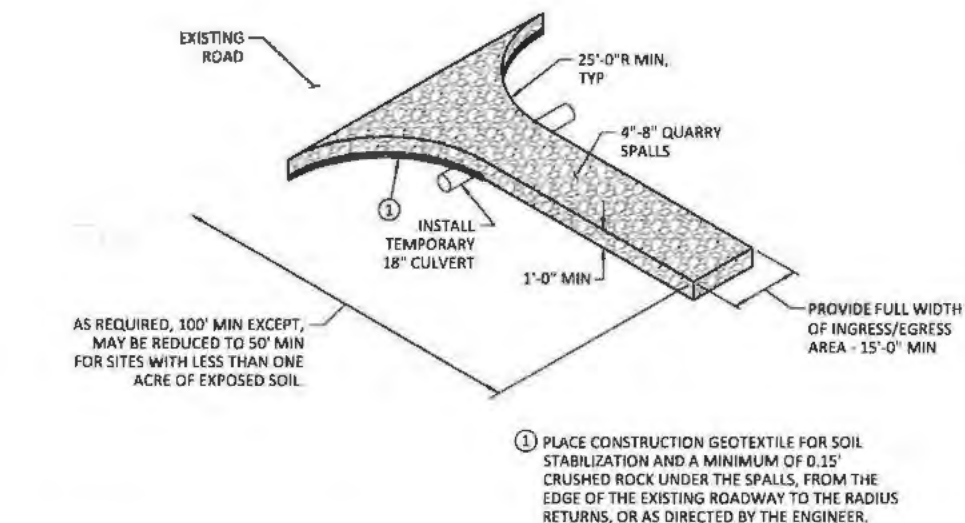


GEOTEXTILE END CONNECTIONS

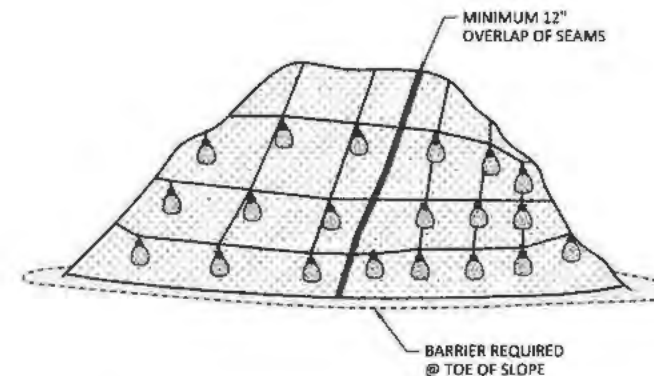


ELEVATION

EC103 SILT FENCE DETAIL  
SCALE: NTS



EC103 TEMPORARY ENTRANCE  
SCALE: NTS



- NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
  2. BARRIER REQUIRED @ TOE OF STOCK PILE.
  3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

EC106 PLASTIC SHEETING  
SCALE: NTS

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

1 28 26

Date of Approval

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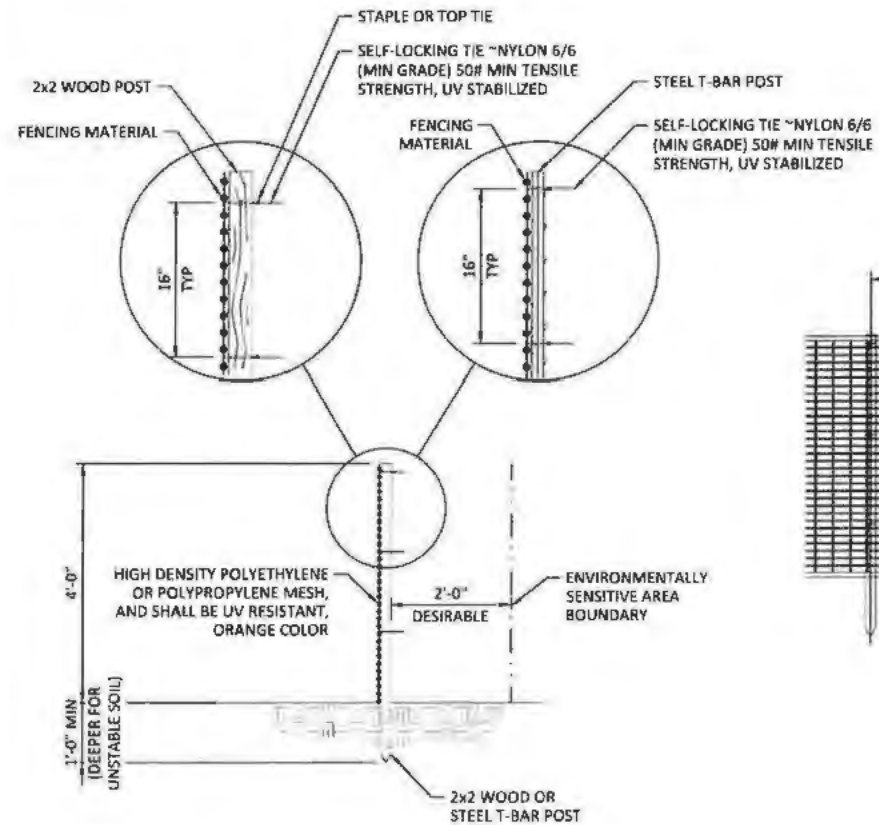


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

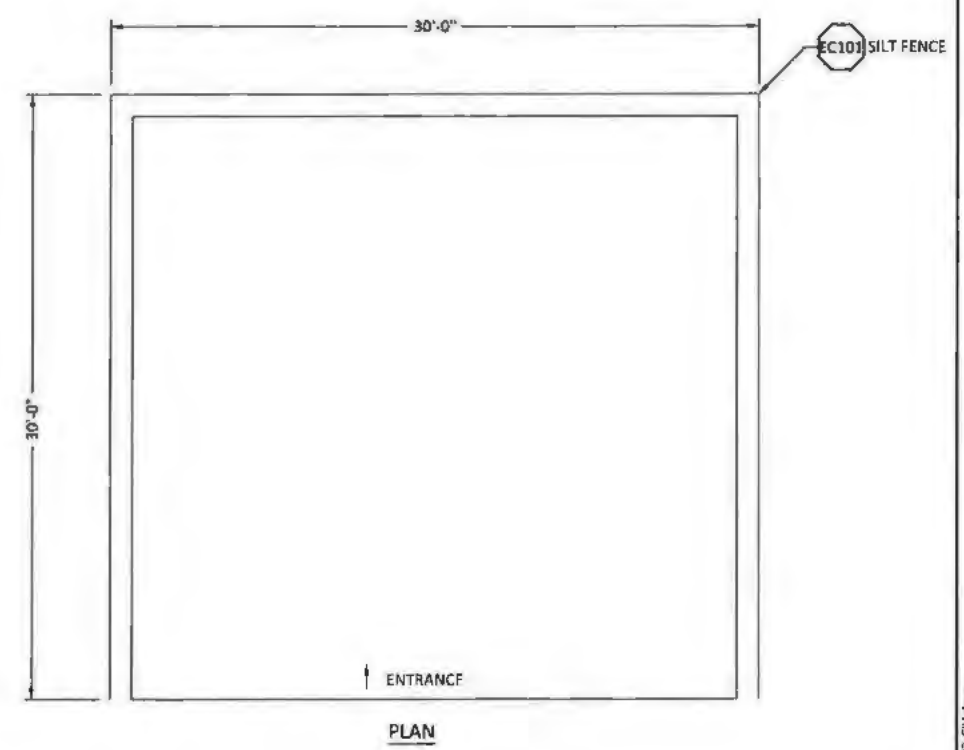
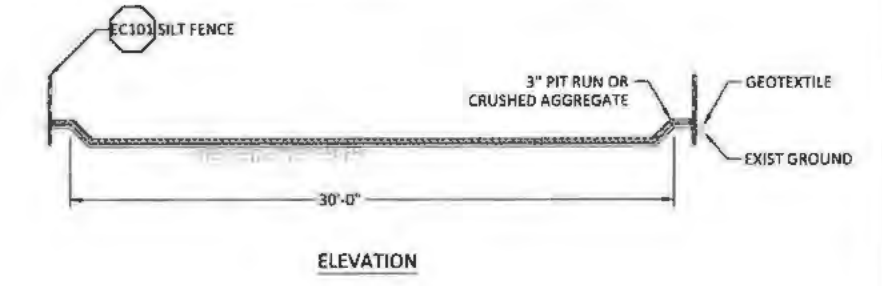
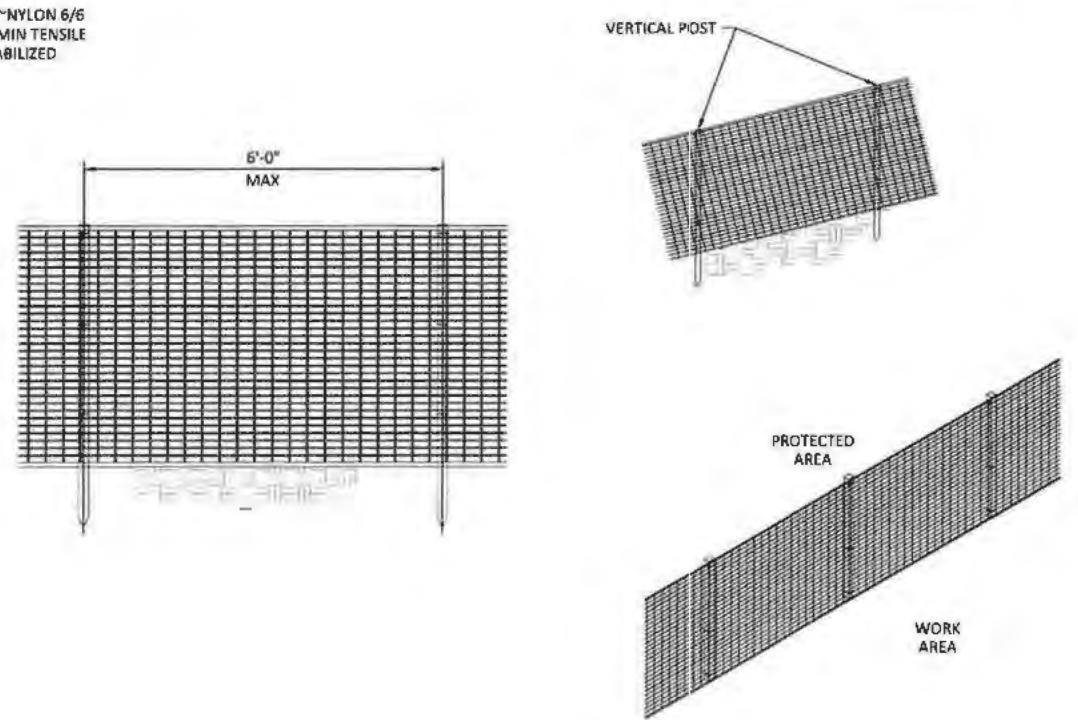
EROSION AND SEDIMENT CONTROL  
STANDARD DETAILS 1

DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

DRAWING  
**EC001**



NOTE:  
1. POST SHALL HAVE SUFFICIENT STRENGTH AND DURABILITY TO SUPPORT THE FENCE THROUGH THE LIFE OF THE PROJECT.



EC109 CONSTRUCTION LIMITS FENCE DETAIL  
SCALE: NTS

EC110 CONCRETE WASHOUT DETAIL  
SCALE: NTS

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM  
Reviewed *[Signature]*  
Approved *[Signature]*  
Date of Approval 1 28 26

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0	12/19/25	MM	ISSUED FOR CONSTRUCTION

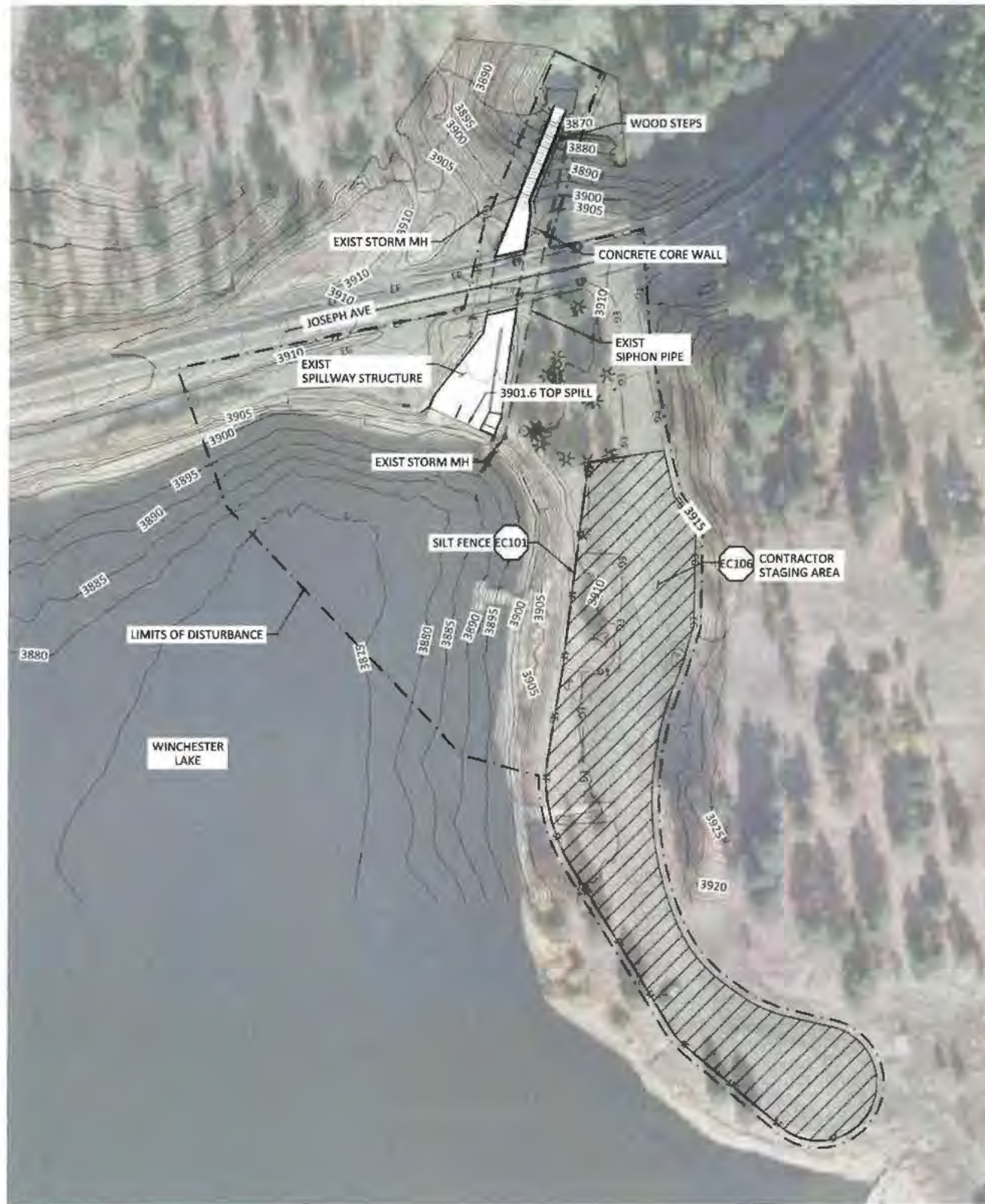


WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME WINCHESTER DAM REHABILITATION	DESIGNED <u>P. GALASKA</u> DRAWN <u>C. GERBER</u> CHECKED <u>S. KLAWITTER</u> PROJECT DATE <u>12/19/25</u>
EROSION AND SEDIMENT CONTROL STANDARD DETAILS 2	

DRAWING  
EC002



**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1" = 50'



**EROSION CONTROL NOTES:**

1. CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE AND LOCAL REQUIREMENTS, SIGNED AND STAMPED BY A REGISTERED CIVIL ENGINEER IN THE STATE OF IDAHO PRIOR TO THE START OF CONSTRUCTION.
2. THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THIS DRAWING IS PROVIDED TO AID THE CONTRACTOR IN DEVELOPING EROSION AND SEDIMENT CONTROL PLAN ACCORDING TO THE CONTRACTOR SCHEDULE AND PHASING OF THE PROJECT.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
4. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE THE PROPOSED IMPROVEMENTS SHOWN IN THE PLANS FOR THE PROJECT.
5. MINIMIZE DISTURBANCE TO EXIST VEGETATION; UTILIZE NATURAL BUFFER STRIPS.
6. ALL SLOPES SHALL BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND THEREAFTER, UNTIL INSTALLATION OF FINAL GROUND COVER. CONTRACTOR SHALL INSTALL SILT FENCE AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT CONTRACTOR'S EXPENSE.
7. ALL RUNOFF FROM SITE CONSTRUCTION ACTIVITIES AND FROM RAINFALL EVENTS SHALL BE RETAINED ON SITE AND FILTERED PRIOR TO DISCHARGE.
9. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT TRACKING OF MUD AND DIRT ONTO ROADS. ROAD SWEEPING IS REQUIRED. ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON SITE.
10. STOCKPILED EXCAVATION MATERIAL SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE.
11. CONTRACTOR SHALL PROVIDE DUST ABATEMENT OVER ALL DISTURBED AREAS BY WATER SUPPLY.
12. CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.
13. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (HYDROSEEDING, MULCHING OF STRAW, SAND BAGS, DIVERSION DITCHES, ETC) DICTATED BY FIELD CONDITIONS TO PREVENT THE INTRODUCTION OF DIRT, MUD, OR DEBRIS TO EXIST PUBLIC OR PRIVATE ROADWAYS OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED ABOVE.
14. IF ONE OR MORE ACRES OF GROUND IS TO BE DISTURBED, A PERMIT MUST BE OBTAINED FROM THE STATE WATER RESOURCES CONTROL BOARD PRIOR TO CONSTRUCTION.
15. PRIOR TO ANY DEMOLITION OR GRADING, A CONSTRUCTION FENCE SHALL BE ESTABLISHED AROUND THE PERIMETER TO PREVENT UNAUTHORIZED VEHICULAR ENTRY.
16. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION STANDARDS AND THE EROSION CONTROL PLANS SHOWN ON THE CONSTRUCTION DRAWINGS.
17. INTERIM EROSION CONTROL MEASURES MAY BE NEEDED AND SHALL BE INSTALLED DURING CONSTRUCTION TO ENSURE ADEQUATE EROSION CONTROL FACILITIES ARE IN PLACE AT ALL TIMES.
18. ALL MULCH MAY BE STRAW OR RICES. ALL MULCH SHOULD BE USED WITH A TRACKIFIER.
19. ALL SANDBAGS MAY BE GRAVEL OR SAND FILLED BAGS UNLESS SPECIFIED DIFFERENT.
20. ALL SLOPES WITH DISTURBED SOILS GREATER THAN 10% THAT ARE FREE OF VEGETATION SHALL HAVE EARTH GUARD APPLIED OR MULCH SPREAD AND TACKED DOWN PRIOR TO A 50% CHANGE OF RAIN.
21. DUST CONTROL MEASURES IN THE FORM OF WATER APPLICATION TO ALL EXPOSED SOIL SURFACES TO PREVENT THE TRANSPORT OF SOIL FROM EXPOSED SURFACES ON CONSTRUCTION SITES IN THE FORM OF AIRBORNE PARTICULATES. WATERING OF EXPOSED SOIL SURFACES SHALL OCCUR AT LEAST TWICE DAILY, PREFERABLY IN THE LATE MORNING AND AFTER WORK IS DONE FOR THE DAY. ALL CLEARING, GRADING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE WHEN WINDS EXCEED 15 MPH AVERAGED OVER 1 HOUR.
22. TO MINIMIZE THE TRACKING OF MUD AND DIRT AND TO STABILIZE THE POINT OF INGRESS/EGRESS BY CONSTRUCTION VEHICLES, THE CONTRACTOR SHOULD PLACE 4" TO 6" ANGULAR ROCK WITH A MINIMUM DEPTH OF 18" IN CONJUNCTION WITH AN UNDERLAY OF FILTER FABRIC. ANY SOIL MATERIAL CARRIED ONTO STREET SURFACES BY CONSTRUCTION EQUIPMENT SHALL BE REMOVED ON A DAILY BASIS. (BROOM CLEAN, DO NOT USE WATER TO WASH THE STREET). IF EQUIPMENT TRAFFIC IS MINIMAL, STABILIZED ENTRANCE MAY NOT BE NEEDED. ANY SEDIMENT TRACKED OFF PROPERTY AND ONTO PAVED ROADWAYS SHALL BE SWEEP CLEAN IMMEDIATELY AFTER EACH VEHICLE LEAVES THE SITE.
23. ALL ROADS SHALL BE PAVED AS SOON AS FEASIBLE OR WATERED PERIODICALLY OR CHEMICALLY STABILIZED.
24. HAUL TRUCKS SHALL BE COVERED WITH TARPULINS OR OTHER EFFECTIVE COVERS AT ALL TIMES.
25. IF THE CONSTRUCTION SITE IS TO REMAIN INACTIVE LONGER THAN 3 MONTHS THEN THE SITE SHALL BE STABILIZED BY APPLYING "EARTH GUARD" OR SEEDED AND WATERED UNTIL GRASS COVER IS GROWN. OTHER METHODS MAY BE ACCEPTABLE IF APPROVED BY ENGINEER.
26. INSPECT SEDIMENT CONTROL DEVICES BEFORE EACH STORM TO VERIFY THEY ARE IN PROPER ORDER. INSPECT BMP'S AFTER EACH STORM, REMOVING COLLECTED SEDIMENT AND REPAIRING DEFICIENCIES. IF BMP'S ARE DAMAGED IN A STORM, REPAIRS SHOULD BE COMPLETED WITHIN 72 HOURS. CARE SHOULD BE EXERCISED TO MINIMIZE DAMAGE AND PROTECTED AREAS WHILE MAKING REPAIRS.

27. IF BMP'S HAVE FAILED, OR ARE INEFFECTIVE, NOTIFY THE ENGINEER TO MODIFY THE BMP OR SPECIFY AN ALTERNATIVE. THE MODIFICATION OR ALTERNATIVE, THE MODIFICATION OR ALTERNATIVE SHOULD BE INSTALLED WITHIN 72 HOURS OF APPROVAL.
28. DURING LONG PERIODS OF RAIN AND HIGH INTENSITY RAINFALL BMP MEASURES MAY BECOME CLOGGED. EXTREME CARE SHOULD BE TAKEN TO CLEAN BMP MEASURES TO REDUCE FUGITIVE DISCHARGE AND POTENTIAL FLOODING.
29. KEEP A LOG WITH RECORDS OF ALL INSPECTIONS AND ACTIONS TAKEN TO CORRECT OR MODIFY THE SWPP. NOTE ALL FAILURES OF THE SWPP AND ACTIONS TAKEN TO CORRECT ANY DISCHARGES. FAILURE TO DO SO WILL PUT THE SWPP OUT OF COMPLIANCE.
30. STRAW WATTLES SHALL HAVE A MAXIMUM FUNCTIONAL LONGEVITY OF 1 YEAR AND SHALL BE REPLACED ANNUALLY IF REQUIRED BEYOND 1 YEAR.
31. APPLICANT MAY REMOVE TEMPORARY BMP'S (WATTLES AND SILT FENCING) ONCE STABILIZATION HAS BEEN ESTABLISHED.
32. HYDROSEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT ARE NOT SUBJECT TO HEAVY WEAR FROM CONSTRUCTION EQUIPMENT OR OTHER VEHICLES. IRRIGATION CAN BE PERFORMED BY HAND WATERING OR BY PIPED SPRINKLER SYSTEM. SEED AND MULCH SHALL BE KEPT MOIST AT ALL TIMES UNTIL GERMINATION HAS OCCURRED. SEED SHOULD BE IN CONFORMANCE WITH THE IDAHO TRANSPORTATION DEPARTMENT AND IDFG GUIDELINES.
33. IF SEEDS FAIL TO GERMINATE, OR THEY GERMINATE AND DIE, THE AREA MUST BE RE-SEEDED, FERTILIZED, AND MULCHED WITHIN THE PLANTING SEASON. NOT LESS THAN HALF THE ORIGINAL APPLICATION RATE SHOULD BE APPLIED.
34. UPON PERMANENT STABILIZATION, AND APPROVAL OF THE ENGINEER/QSP, TEMPORARY BMP'S MAY BE REMOVED IF NO LONGER NEEDED.
35. PLACEMENT OF 2" CLEAN ROCK MAY BE USED AS AN ALTERNATE STABILIZATION BMP FOR AREAS WHERE SLOPES ARE LESS THAN 10%.

**DUST SUPPRESSION PLAN**

1. CONDUCT DAILY CLEANUP. THIS PRACTICE SHALL INCLUDE REMOVAL OF MUD AND DUST CARRIED ONTO STREET SURFACES BY CONSTRUCTION VEHICLES. DURING CLEARING, GRADING, EARTH-MOVING, EXCAVATION, OR TRANSPORTATION OF CUT OR FILL MATERIALS, WATER TRUCKS OR SPRINKLE SYSTEMS ARE TO BE USED TO PREVENT DUST FROM LEAVING THE SITE AND TO CREATE A CRUST AFTER EACH DAY'S ACTIVITIES CEASE.
2. COVER HAUL TRUCKS WITH TARPULINS OR OTHER EFFECTIVE COVERS AT ALL TIMES, EXCEPT WHEN LOADING OR UNLOADING MATERIALS.
3. WATER ALL EXPOSED EARTH SURFACES. THIS PRACTICE SHALL BE CONDUCTED AT A MINIMUM IN THE LATE MORNING AND AT THE END OF THE DAY. FURTHER, THE FREQUENCY OF WATERING SHALL INCREASE IF REQUIRED BY THE BUTTE COUNTY AIR POLLUTION CONTROL DISTRICT.
4. ALL CLEARING, GRADING, EARTH-MOVING, OR EXCAVATION ACTIVITIES SHALL CEASE WHEN WINDS EXCEED 15 MPH AVERAGED OVER 1 HOUR.
5. THE AREA DISTURBED BY DEMOLITION, CLEARING, GRADING, EARTH-MOVING, OR EXCAVATION OPERATIONS SHALL BE MINIMIZED AT ALL TIMES.
6. PORTIONS OF THE CONSTRUCTION SITE TO REMAIN INACTIVE LONGER THAN AN PERIOD OF 14 DAYS SHALL BE SEEDED AND WATERED UNTIL GRASS COVER IS GROWN.
7. THE APPLICANT SHALL MINIMIZE CONSTRUCTION-RELATED EXHAUST EMISSIONS BY MAINTAINING CONSTRUCTION EQUIPMENT ENGINES IN GOOD CONDITION AND IN PROPER TUNE ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND DURING SMOG SEASON (MAY THROUGH OCTOBER) BY NOT ALLOWING CONSTRUCTION EQUIPMENT TO BE LEFT IDLING FOR LONG PERIODS.
8. ALL ON-SITE VEHICLES SHOULD BE LIMITED TO A SPEED OF 15 MPH ON UNPAVED ROADS.
9. RE-VEGETATE ALL EXPOSED SURFACES. THIS SHALL BE COMPLETED AS SOON AS POSSIBLE TO REDUCED DUST EMISSIONS. THE DUST SUPPRESSION PLAN SHALL BE SUBMITTED TO THE COUNTY OF BUTTE FOR REVIEW AND APPROVAL PRIOR TO ISSUANCE OF A GRADING PERMIT.
10. SOIL STOCKPILED FOR MORE THAN TWO DAYS SHALL BE COVERED, KEPT MOIST, OR TREATED WITH SOIL BINDERS TO PREVENT DUST GENERATION.
11. ABIDE BY THE FOLLOWING ADDITIONAL MEASURES DURING ALL CONSTRUCTION ACTIVITY:
  - A. USE ALTERNATIVES TO OPEN BURNING OF VEGETATIVE MATERIAL DURING ALL CLEARING AND CONSTRUCTION.
12. OTHER MEASURES AS DETERMINED APPROPRIATE BY AQMD AND DEPARTMENT OF PUBLIC WORKS TO REDUCE DUST.
13. ONE OR MORE PUBLICLY - VISIBLE SIGNS SHALL BE POSTED AT CONSTRUCTION SITE WITH THE DEVELOPER CONTACT INFORMATION. DUST COMPLAINTS RECEIVED SHALL BE RESPONDED TO AS SOON AS PRACTICABLE.

**IDAHO DEPARTMENT OF FISH AND GAME**  
**DAM SAFETY PROGRAM**

Reviewed:   
 Approved:   
 1 28 26

REV	DATE	MM	BY	DESCRIPTION
0	12/19/25	MM		ISSUED FOR CONSTRUCTION

PROFESSIONAL ENGINEER  
 LICENSED  
 246671472  
 STATE OF IDAHO  
 STEVEN M. KLAWITTER  
 12/19/2025

**WARNING**  
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**McMillen**  
 14711 Shoshone Dr. Ste. 100 Boise, ID 83702 (208) 243-4234  
 www.mcmillen.com



IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 EROSION AND SEDIMENT CONTROL PLAN

DESIGNED	DATE OF APPROVAL	DRAWING
P. GALASKA		EC101
C. GERBER		
S. KLAWITTER		
PROJECT DATE	12/19/25	

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**DEMOLITION PLAN**  
SCALE: 1" = 20'

- SHEET NOTES:**
1. ALL EXISTING STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECT EXISTING STRUCTURES FROM DAMAGE.
  2. ALL CONCRETE ANCHOR BOLTS AND OTHER EMBEDDED METALS TO BE DEMOLISHED SHALL BE CUT FLUSH WITH THE SURFACE OF THE CONCRETE IN WHICH THEY ARE EMBEDDED. AVOID DAMAGE TO EXISTING CONCRETE.

- SHEET KEY NOTES:**
- A DEMOLISH EXISTING CHAIN LINK FENCE UP TO BRIDGE.
  - B MAINTAIN EXISTING CHAIN LINK FENCE ACROSS BOTH SIDES OF BRIDGE, INCLUDING CORNER FENCE POSTS.
  - C DEMOLISH EXISTING CONCRETE FLUME WALL. SAW-CUT FLUSH WITH TOP OF FLOOR SLAB AND GRIND SMOOTH. BURN BACK OR GRIND REINFORCING TO MINIMUM 1-INCH BELOW CONCRETE SURFACE AND PATCH WITH NONSHRINK GROUT.
  - D DEMOLISH EXISTING GATE, TRASH RACK, SEAL PLATES, AND ALL ASSOCIATED EQUIPMENT AND METAL WORKS. (NOT SHOWN, SEE PHOTOS ON D102).
  - E SAW-CUT FLOOR SLAB PERPENDICULAR TO SPILLWAY CENTERLINE AT STA. 0+11.43.
  - F DEMOLISH EXISTING CONCRETE SPILLWAY STRUCTURE UPSTREAM OF STA. 0+11.43, INCLUDING FLOOR SLAB, CONCRETE FOUNDATION CUTOFF, WALLS, AND PIER.
  - G SAW-CUT WALLS VERTICALLY PERPENDICULAR TO WALL AXIS AT STA. 0+11.43.
  - H NON-DESTRUCTIVELY REMOVE EXISTING SIGN PRIOR TO COMMENCING CONSTRUCTION AND PROTECT DURING CONSTRUCTION. RE-INSTALL NEAR THE ORIGINAL LOCATION AND ORIENTATION, AS APPROVED BY IDFG PRIOR TO DEMOBILIZATION. ENSURE INSTALLATION LOCATION DOES NOT INHIBIT ACCESS TO PROPOSED GATE.
  - I DEMOLISH EXISTING STEEL RAILING ALONG THE TOP OF RIGHT CHUTE WALL.
  - J EMERGENCY DRAIN LINE FOR THE CITY OF WINCHESTER WASTEWATER TREATMENT PLANT. DEMOLISH PORTION AS REQUIRED TO ALLOW FOR NEW INSTALLATION OF OUTFALL DOWNSTREAM AND OVER THE TOP OF EXTENDED SPILLWAY WALL AS SHOWN ON C300. COORDINATE ALL REQUIRED SHUTDOWNS OF OUTFALL AND POSSIBLE TEMPORARY LINE WITH IDFG AND WWTP.
  - K ACTIVE OUTFALL FOR CITY OF WINCHESTER WASTEWATER TREATMENT PLANT. DEMOLISH PORTION AS REQUIRED TO ALLOW FOR NEW INSTALLATION OF OUTFALL DOWNSTREAM AND OVER THE TOP OF EXTENDED SPILLWAY WALL AS SHOWN ON C300. COORDINATE ALL REQUIRED WORK ON THE OUTFALL AND POSSIBLE TEMPORARY LINE WITH IDFG AND WWTP.
  - L CONTRACTOR SHALL DEMOLISH EXISTING SIPHON PIPE AND SALVAGE EXISTING INTAKE TO PERMIT GRADING WORK AND INSTALLATION OF LINER SYSTEM.
  - M RELOCATE EXISTING DOCK MIN 100 FEET FROM UPSTREAM EDGE OF LINER SYSTEM.
  - N SALVAGE EXISTING DEBRIS BOOM, LAKE ANCHORS AND SHORE ANCHORS. STORE ONSITE AT LOCATION COORDINATED WITH IDFG WITHIN CONTRACTOR STAGING AREA.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed *[Signature]*  
Approved *[Signature]*  
1.29.26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
Date of Approval  
DESIGNED T. MAGILL  
DRAWN C. GERBER  
CHECKED M. MERKLEIN  
PROJECT DATE 12/19/25

DRAWING  
**D101**

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1 PHOTO 1  
D101 SCALE: NTS



2 PHOTO 2  
D101 SCALE: NTS

IDAHO DEPARTMENT OF WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

Date of Approval 1 28 26

- SHEET NOTES:**
- ALL EXISTING STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECT EXISTING STRUCTURES FROM DAMAGE.
  - ALL CONCRETE ANCHOR BOLTS AND OTHER EMBEDDED METALS TO BE DEMOLISHED SHALL BE CUT FLUSH WITH THE SURFACE OF THE CONCRETE IN WHICH THEY ARE EMBEDDED. AVOID DAMAGE TO EXISTING CONCRETE.
- SHEET KEY NOTES:**
- A DEMOLISH EXISTING CHAIN LINK FENCE UP TO BRIDGE.
  - B MAINTAIN EXISTING CHAIN LINK FENCE ACROSS BOTH SIDES OF BRIDGE, INCLUDING CORNER FENCE POSTS.
  - C DEMOLISH EXISTING CONCRETE FLUME WALL. SAW-CUT FLUSH WITH TOP OF FLOOR SLAB AND GRIND SMOOTH. BURN BACK OR GRIND REINFORCING TO MINIMUM 1-INCH BELOW CONCRETE SURFACE AND PATCH WITH NONSHRINK GROUT.
  - D DEMOLISH EXISTING GATE, TRASH RACK, SEAL PLATES, AND ALL ASSOCIATED EQUIPMENT AND METAL WORKS.
  - E SAW-CUT FLOOR SLAB PERPENDICULAR TO SPILLWAY CENTERLINE AT STA. 0+11.43.
  - F DEMOLISH EXISTING CONCRETE SPILLWAY STRUCTURE UPSTREAM OF STA. 0+11.43, INCLUDING FLOOR SLAB, CONCRETE FOUNDATION CUTOFF, WALLS, AND PIER.
  - G SAW-CUT WALLS VERTICALLY PERPENDICULAR TO WALL AXIS AT STA. 0+11.43.
  - H NON-DESTRUCTIVELY REMOVE EXISTING SIGN PRIOR TO COMMENCING CONSTRUCTION AND PROTECT DURING CONSTRUCTION. RE-INSTALL NEAR THE ORIGINAL LOCATION AND ORIENTATION, AS APPROVED BY IDFG, PRIOR TO DEMOBILIZATION. ENSURE INSTALLATION LOCATION DOES NOT INHIBIT ACCESS TO PROPOSED GATE.
  - I DEMOLISH EXISTING STEEL RAILING ALONG TOP OF RIGHT CHUTE WALL.
  - N SALVAGE EXISTING DEBRIS BOOM, LAKE ANCHORS AND SHORE ANCHORS. STORE ONSITE AT LOCATION COORDINATED WITH IDFG WITHIN CONTRACTOR STAGING AREA.



3 PHOTO 3  
D101 SCALE: NTS



4 PHOTO 4  
D101 SCALE: NTS



5 PHOTO 5  
D101 SCALE: NTS

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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

DESIGNED T. MAGILL  
DRAWN C. GERBER  
CHECKED M. MERKLEIN  
PROJECT DATE 12/19/25

DEMOLITION SECTIONS AND DETAILS 1

DRAWING  
**D102**

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6 PHOTO 6  
D103 SCALE: NTS



7 PHOTO 7  
D101 SCALE: NTS

**SHEET NOTES:**

1. ALL EXISTING STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. PROTECT EXISTING STRUCTURES FROM DAMAGE.
2. ALL CONCRETE ANCHOR BOLTS AND OTHER EMBEDDED METALS TO BE DEMOLISHED SHALL BE CUT FLUSH WITH THE SURFACE OF THE CONCRETE IN WHICH THEY ARE EMBEDDED. AVOID DAMAGE TO EXISTING CONCRETE.

**SHEET KEY NOTES:**

- I DEMOLISH EXISTING STEEL RAILING ALONG TOP OF RIGHT CHUTE WALL.
- J DEMOLISH EXISTING EMERGENCY DRAIN LINE FOR THE CITY OF WINCHESTER WASTEWATER TREATMENT PLANT 1 FOOT PAST WHERE THE PIPE DAYLIGHTS TO ALLOW FOR NEW INSTALLATION OF OUTFALL DOWNSTREAM AND OVER THE TOP OF EXTENDED SPILLWAY WALL.
- K DEMOLISH EXISTING CITY OF WINCHESTER WASTEWATER TREATMENT PLANT OUTFALL 1 FOOT PAST WHERE THE PIPE DAYLIGHTS TO ALLOW FOR NEW EXTENSION OF OUTFALL DOWNSTREAM AND OVER THE TOP OF EXTENDED SPILLWAY WALL.
- L CONTRACTOR SHALL REMOVE EXISTING SIPHON PIPE AND INTAKE TO PERMIT GRADING WORK AND INSTALLATION OF LINER SYSTEM PRIOR TO INSTALLATION OF NEW EXTENDED SIPHON PIPE.
- M RELOCATE EXISTING DOCK MIN 100 FEET FROM EDGE OF LINER SYSTEM.
- N SALVAGE EXISTING DEBRIS BOOM, LAKE ANCHORS AND SHORE ANCHORS. STORE ONSITE AT LOCATION COORDINATED WITH IDFG WITHIN CONTRACTOR STAGING AREA.

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed: *[Signature]*  
Approved: *[Signature]*  
Date of Approval: 1 28 26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

DEMOLITION  
SECTIONS AND DETAILS 2

DESIGNED T. MAGILL  
DRAWN C. GERBER  
CHECKED M. MERKLEIN  
PROJECT DATE 12/19/25

DRAWING  
D103

**GENERAL PROJECT NOTES:**

- ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- EXIST SURFACE FEATURES SHOWN ON ALL SHEETS HEREIN ARE BASED ON AERIAL AND (FIELD SURVEYS). THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL EXIST SURFACE FEATURES WHETHER SHOWN OR NOT ON CIVIL SHEETS.
- SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- CONTRACTOR SHALL REPAIR ALL EXISTING SURFACE, UTILITIES, AND FOUNDATIONS IMPACTED BY CONSTRUCTION, WHICH ARE NOT INDICATED TO BE DEMOLISHED.
- CONTRACTOR SHALL KEEP ALL CONSTRUCTION WITHIN WORK BOUNDARIES DEFINED FOR THIS PROJECT AS SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLES AND EQUIPMENT, LIMITS OF EXCAVATION, STOCKPILED EXCAVATED MATERIAL, BACKFILL MATERIAL.
- SEE SPECIFICATION 31 00 00 FOR AGGREGATE MATERIAL TYPES.
- ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT, MUST MEET THE MINIMUM REQUIREMENTS OF APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS.
- ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING.
- ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.
- DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS METAL, PIPING, ROCK RUBBLE ETC AT AN APPROVED LANDFILL OR, OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.
- RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.

**GENERAL YARD PIPING AND UTILITY NOTES:**

- CONTRACTOR TO VERIFY LOCATION OF EXISTING STRUCTURES, AND OVERHEAD UTILITIES PRIOR TO THE START OF CONSTRUCTION OF SUBMITTAL OF SHOP DRAWINGS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
- THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE MINIMUM OF 24" COVER ON TOP OF ALL PIPELINES UNLESS OTHERWISE INDICATED OR DIRECTED.
- ELEVATIONS SHOWN ARE TO INVERT (FLOWLINE) OF PIPES, UNLESS OTHERWISE NOTED.
- STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN OR SPECIFIED.
- THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED.
- ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL COORDINATE WITH IDFG AND CITY OF WINCHESTER WWTP STAFF PRIOR TO DEMOLISHING AND RELOCATING EXISTING OUTFALL. CONTRACTOR SHALL INITIATE CONSULTATION WITH BOTH PARTIES A MINIMUM OF 3 WEEKS PRIOR TO COMMENCING WORK AND ENSURE THAT ALL PARTIES ARE IN AGREEMENT WITH TIMELINESS OF ALL ACTIVITIES AND TEMPORARY OUTFALL RELOCATION TO ENSURE CONSTRUCTION ACTIVITIES DO NOT IMPACT WWTP OPERATIONS.

**GENERAL PVC PIPING AND JOINTS NOTES:**

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND LAYING DIAGRAMS OF ALL PIPE, JOINTS, BENDS, SPECIAL FITTINGS, AND PIPING APPURTENANCES FOR THE PROJECT.
- THE CONTRACTOR SHALL SUBMIT MANUFACTURER'S CERTIFICATE THAT PIPE CONFORMS TO THE FOLLOWING SPECIFICATIONS.
- PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 3034 - TYPE PSM POLY (VINYL CHLORIDE) PVC SEWER PIPE AND FITTINGS, SDR (26). MATERIAL FOR PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 1784 - RIGID POLY (VINYL CHLORIDE) (PVC) COMPOUNDS AND CHLORINATED POLY (VINYL CHLORIDE) (CPVC) COMPOUNDS, FOR CELL CLASSIFICATION 12454-B OR 12454-C AS DEFINED THEREIN.
- JOINTS SHALL CONFORM TO ASTM D 3212 - JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. ELASTOMERIC SEALS FOR COMPRESSION TYPE JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 477 - ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE OR ASTM F 913 - THERMOPLASTIC ELASTOMERIC SEALS (GASKETS) FOR JOINING PLASTIC PIPE.
- ALL FITTINGS SHALL CONFORM TO ASTM D 3034. THE STIFFNESS OF THE FITTINGS SHALL NOT BE LESS THAN THE STIFFNESS OF THE ADJOINING PIPE.
- HANDLING OF THE PVC PIPE SHALL BE DONE WITH IMPLEMENTS, TOOLS AND FACILITIES AS RECOMMENDED BY THE PIPE MANUFACTURER TO ENSURE THAT THE PIPE IS NOT DAMAGED IN ANY MANNER DURING STORAGE, TRANSIT, LOADING, UNLOADING, AND INSTALLATION.
- PIPE SHALL BE INSPECTED BOTH PRIOR TO AND AFTER INSTALLATION AND ALL DEFECTIVE LENGTHS SHALL BE REJECTED AND IMMEDIATELY REMOVED FROM THE WORKING AREA.
- CUTTING AND MACHINING OF THE PIPE SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S STANDARD PROCEDURES.
- ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM THE INTERIOR OF THE PIPE BEFORE PLACING. PIPE SHALL BE KEPT CLEAN AFTER LAYING.
- EACH PIPE COMPRESSION TYPE JOINT SHALL BE JOINED WITH A LOCK-IN RUBBER RING AND A RING GROOVE THAT IS DESIGNED TO RESIST DISPLACEMENT DURING PIPE INSERTION. THE RING AND THE RING SEAT INSIDE THE BELL SHALL BE WIPED CLEAN BEFORE THE GASKET IS INSERTED, A THIN FILM OF LUBRICANT SHALL BE APPLIED TO THE EXPOSED SURFACE OF THE RING AND TO THE OUTSIDE OF THE CLEAN PIPE END. LUBRICANT OTHER THAN THAT FURNISHED WITH THE PIPE SHALL NOT BE USED. THE END OF THE PIPE SHALL BE THEN FORCED INTO THE RING TO COMPLETE THE JOINT.
- THE PIPE SHALL NOT BE DEFLECTED EITHER VERTICALLY OR HORIZONTALLY IN EXCESS OF THE PRINTED RECOMMENDATIONS OF THE MANUFACTURER OF THE COUPLING.
- FITTINGS SHALL BE CAREFULLY CONNECTED TO PIPE, AND JOINTS SHALL BE CHECKED TO INSURE A SOUND AND PROPER JOINT.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed [Signature]  
 Approved [Signature]  
 Date of Approval 1.28.26

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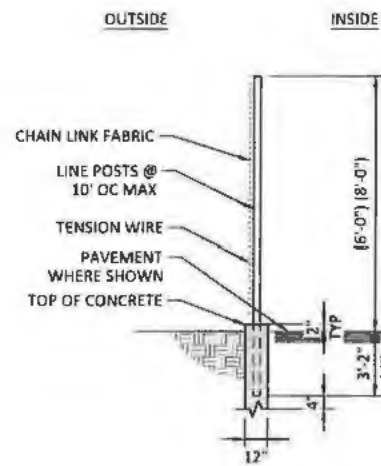
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IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 GENERAL CIVIL NOTES

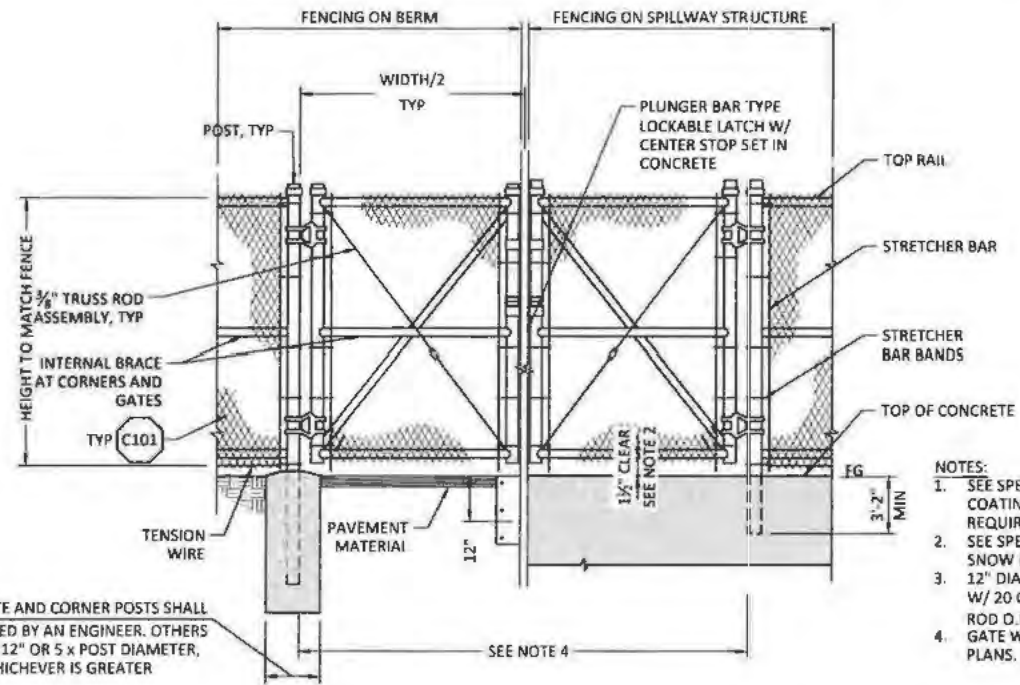
DESIGNED P. GALASKA  
 DRAWN C. GERBER  
 CHECKED S. KLAWITTER  
 PROJECT DATE 12/19/25

DRAWING  
**GC001**



- NOTES:
- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
  - EXTENSION ARM MAY BE TURNED IN AT OPTION OF OWNER.

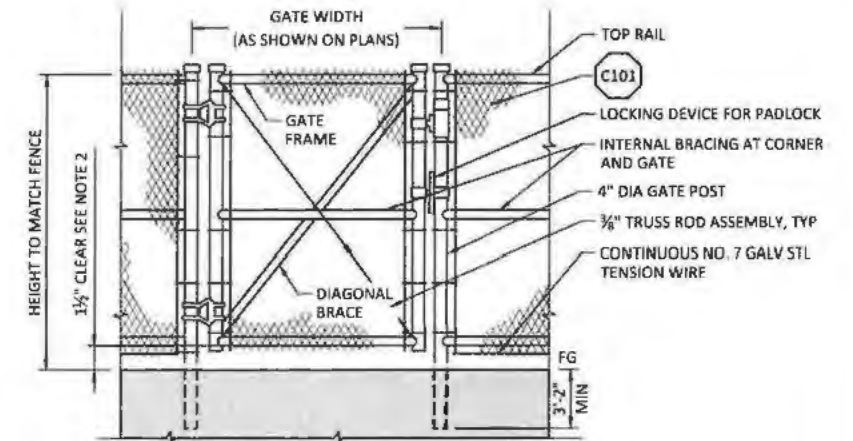
**C101** CHAIN LINK FENCE  
SCALE: NTS



GATE AND CORNER POSTS SHALL BE DESIGNED BY AN ENGINEER. OTHERS SHALL BE 12" OR 5 x POST DIAMETER, WHICHEVER IS GREATER

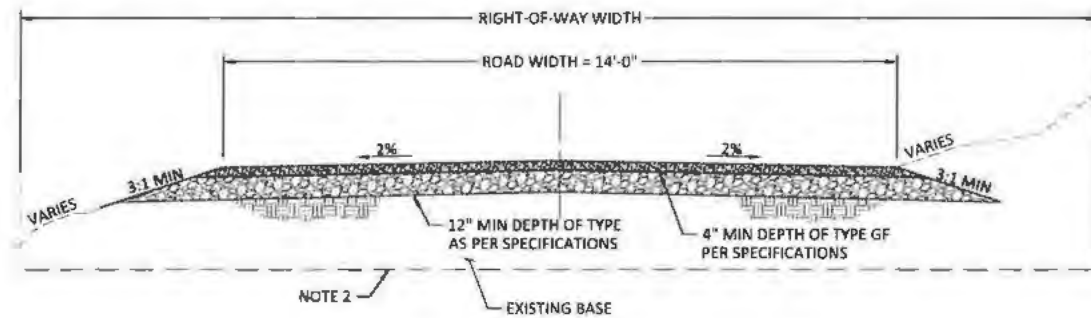
- NOTES:
- SEE SPECIFICATIONS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
  - SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.
  - 12" DIAMETER x 18" DEEP CONCRETE STOP W/ 20 GA STEEL PLUNGER SLEEVE, DIA = ROD O.D. + 1/2"
  - GATE WIDTH DIMENSIONS AS SHOWN ON PLANS.

**C102** DOUBLE LEAF GATE  
SCALE: NTS



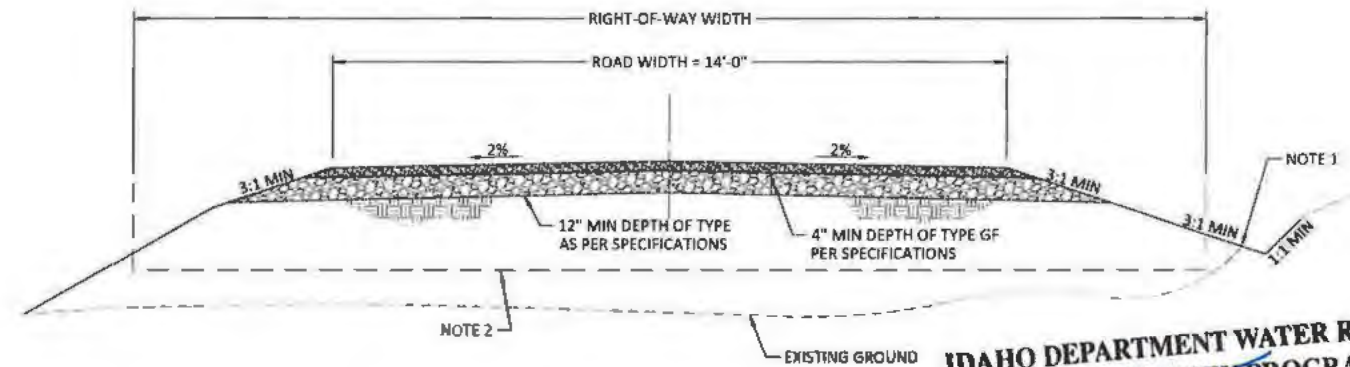
- NOTES:
- SEE SPECS FOR FENCE MATERIAL, COATINGS, AND INSTALLATION REQUIREMENTS.
  - GATE TO BE INSTALLED WITH KEEPER TO SECURE IN OPEN POSITION.
  - GATES LESS THAN 8'-0" IN WIDTH SHALL BE SINGLE LEAF.
  - SEE SPECIFICATIONS FOR CLEARANCES IN SNOW REGIONS.

**C103** SINGLE LEAF PEDESTRIAN GATE  
SCALE: NTS



NOTE 2  
EXISTING BASE

**C137** TYPICAL GRAVEL ROAD SECTION  
SCALE: NTS



- NOTES:
- BORROW DITCHES SHALL HAVE A MINIMUM 3:1 SLOPE WITH 4:1 SLOPE RECOMMENDED. THE BACKSLOPE OF THE BORROW DITCH SHALL BE MINIMUM 1:1 BACKSLOPE WITH 4:1 BACKSLOPE RECOMMENDED. THE FLOW LINE OF THE DITCH SHALL BE 6" BELOW THE LOWEST AGGREGATE BASE COURSE TO ENCOURAGE DRAINAGE.
  - OVER EXCAVATE EXISTING GRADE 12" MIN. PROOF ROLL AND BACKFILL WITH TYPE SF PER SPECIFICATIONS.

ROADWAY FILL SECTION

IDAHO DEPARTMENT WATER RESOURCES  
DAMS SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

1 28 26

Date of Approval

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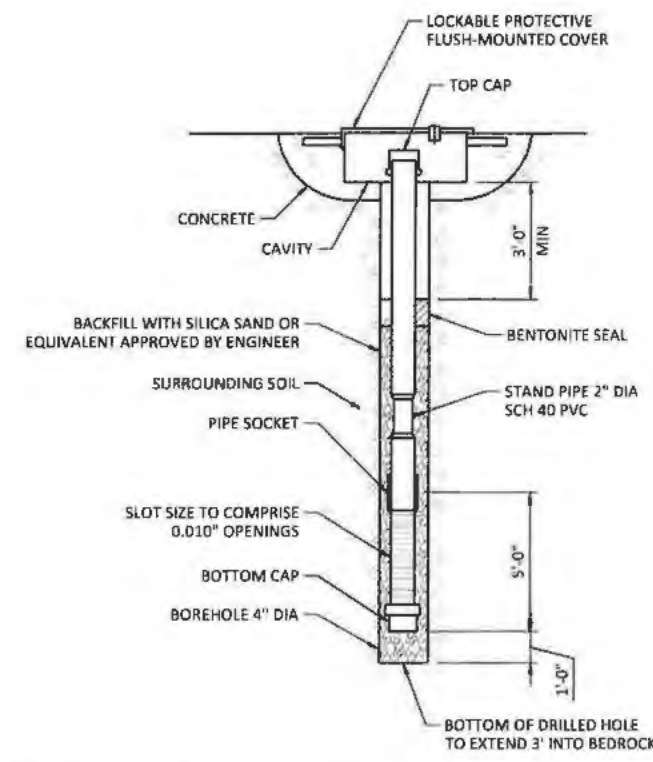


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

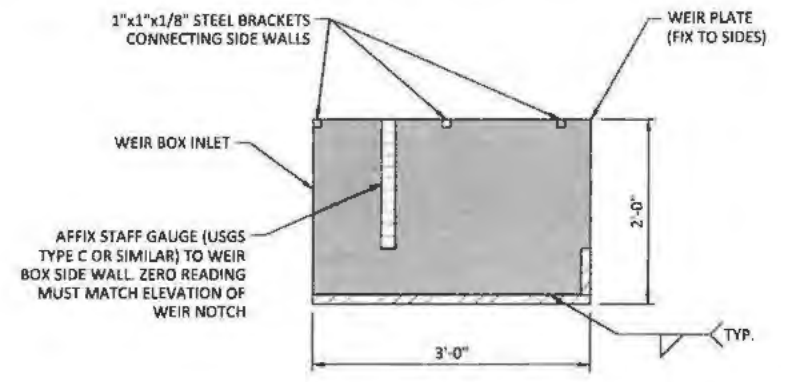
CIVIL  
STANDARD DETAILS

DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

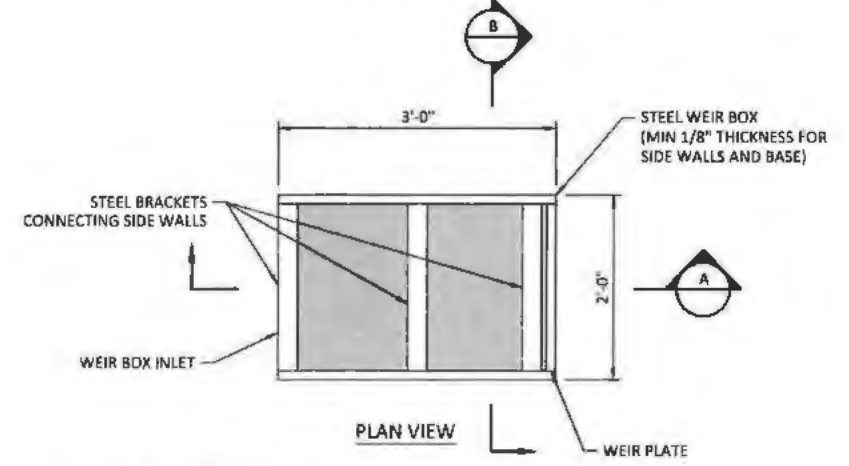
DRAWING  
GC002



1 STANDPIPE PIEZOMETER DETAIL  
SCALE: NTS



SECTION A



2 WEIR BOX  
SCALE: NTS

SHEET NOTES:

1. INSTALLATION OF STANDPIPE PIEZOMETERS TO BE MONITORED AND LOGGED BY A QUALIFIED GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF IDAHO.
2. WEIR BOXES TO BE INSTALLED IN LOCATIONS OF KNOWN SEEPAGE AT THE TOE OF THE DAM. LOCATIONS MUST BE CONFIRMED IN COORDINATION WITH THE ENGINEER, IDFG AND IDWR.
3. WEIR BOXES TO BE PLACED ON A FLAT, LEVEL SURFACE. THE WEIR PLATES MUST BE PLUMB AND LEVEL.
4. THE WEIR BOX SIDE WALLS SHALL BE BACKFILLED TO A MINIMUM OF 1.5 FEET ABOVE THE BASE OF THE BOX.

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed: *[Signature]*  
Approved: *[Signature]*

1 28 26

Date of Approval \_\_\_\_\_

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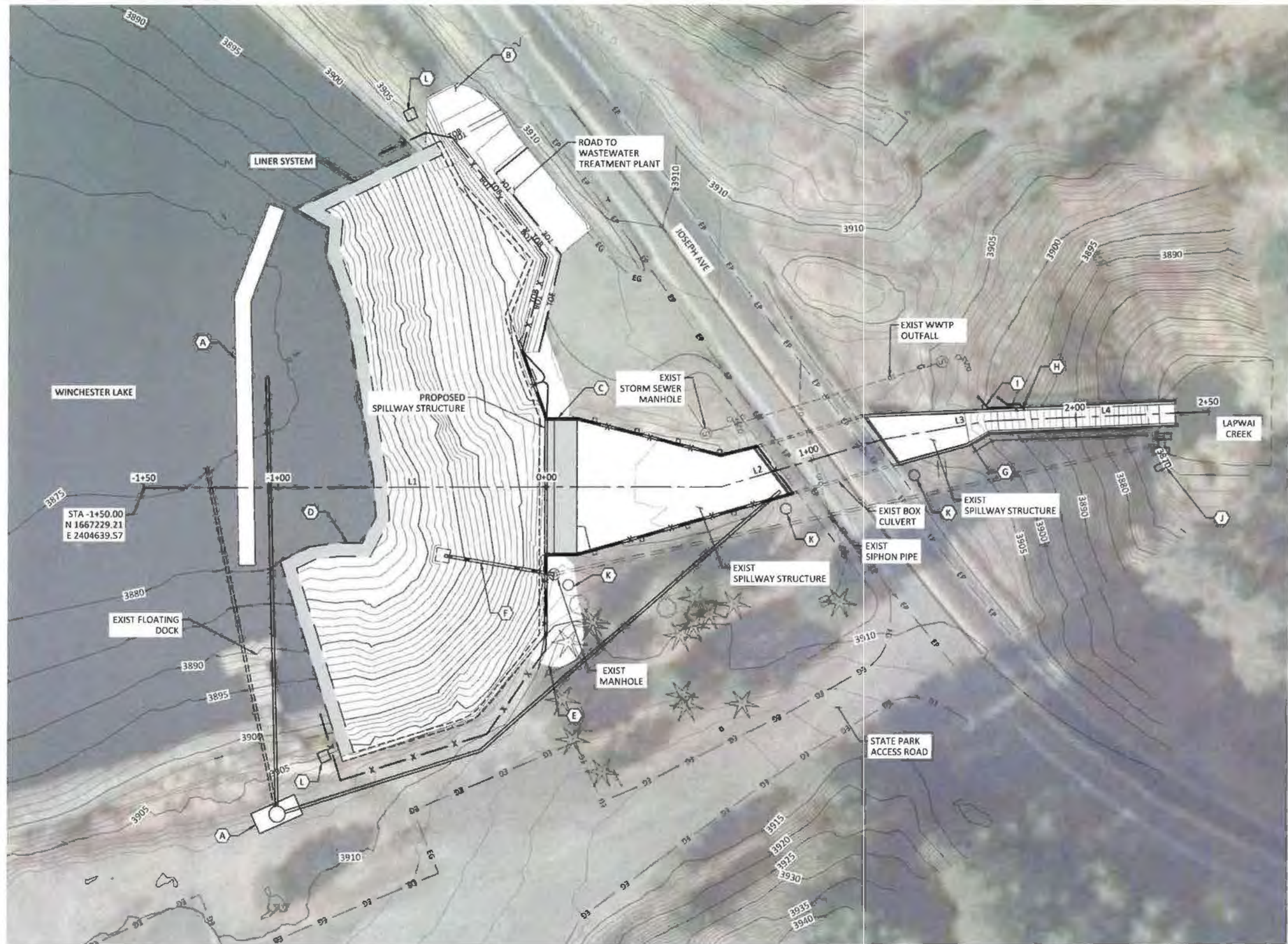
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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
INSTRUMENTATION  
DETAILS

DESIGNED: B. WARD  
DRAWN: C. GERBER  
CHECKED: A. BONTEMPO  
PROJECT DATE: 12/19/25

DRAWING  
GC003



- SHEET KEYNOTES:**
- A CONSTRUCT TEMPORARY COFFERDAM AND BYPASS SYSTEM, SEE SHEET C101.
  - B CONSTRUCT NEW ACCESS ROAD TO WASTEWATER TREATMENT PLANT, SEE SHEET C105.
  - C CONSTRUCT NEW SPILLWAY CONTROL STRUCTURE AND APPROACH WALLS, SEE SHEET S103.
  - D INSTALL NEW LINER SYSTEM, SEE SHEET C201.
  - E REGRADE BACKFILL AFTER SPILLWAY MODIFICATIONS TO PROVIDE RUNOFF BACK INTO WINCHESTER LAKE OR THE SPILLWAY, SEE SHEET C105.
  - F INSTALL NEW SIPHON PIPE AND RELOCATE EXISTING INTAKE STRUCTURE. SEE SHEET C107.
  - G NEW WALL EXTENSIONS ON EXISTING SPILLWAY WALLS, SEE SHEET S102.
  - H EXISTING WWTP OUTFALL PIPE TO BE REROUTED, SEE SHEET C300.
  - I EXISTING WWTP EMERGENCY DRAIN LINE TO BE REROUTED, SEE SHEET C300.
  - J NEW WEIR BOXES, SEE SHEET C201.
  - K THREE NEW PIEZOMETERS, SEE SHEET C201.
  - L TEN NEW ECOLOGY BLOCKS AND DEBRIS BOOM.

ALIGNMENT LINE TABLE				
LINE #	LENGTH	BEARING	START POINT	END POINT
L1	193.90	N23°55'51"E	N 1667248.56, E 2404648.16	N 1667425.80, E 2404726.81
L2	61.84	N7°27'54"E	N 1667425.80, E 2404726.81	N 1667487.12, E 2404734.85
L3	40.74	N14°04'53"E	N 1667487.12, E 2404734.85	N 1667526.63, E 2404744.76
L4	82.34	N21°35'13"E	N 1667526.63, E 2404744.76	N 1667603.19, E 2404775.05

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: **1.29.26**

**OVERALL SITE KEY PLAN**  
SCALE: 1"= 20'



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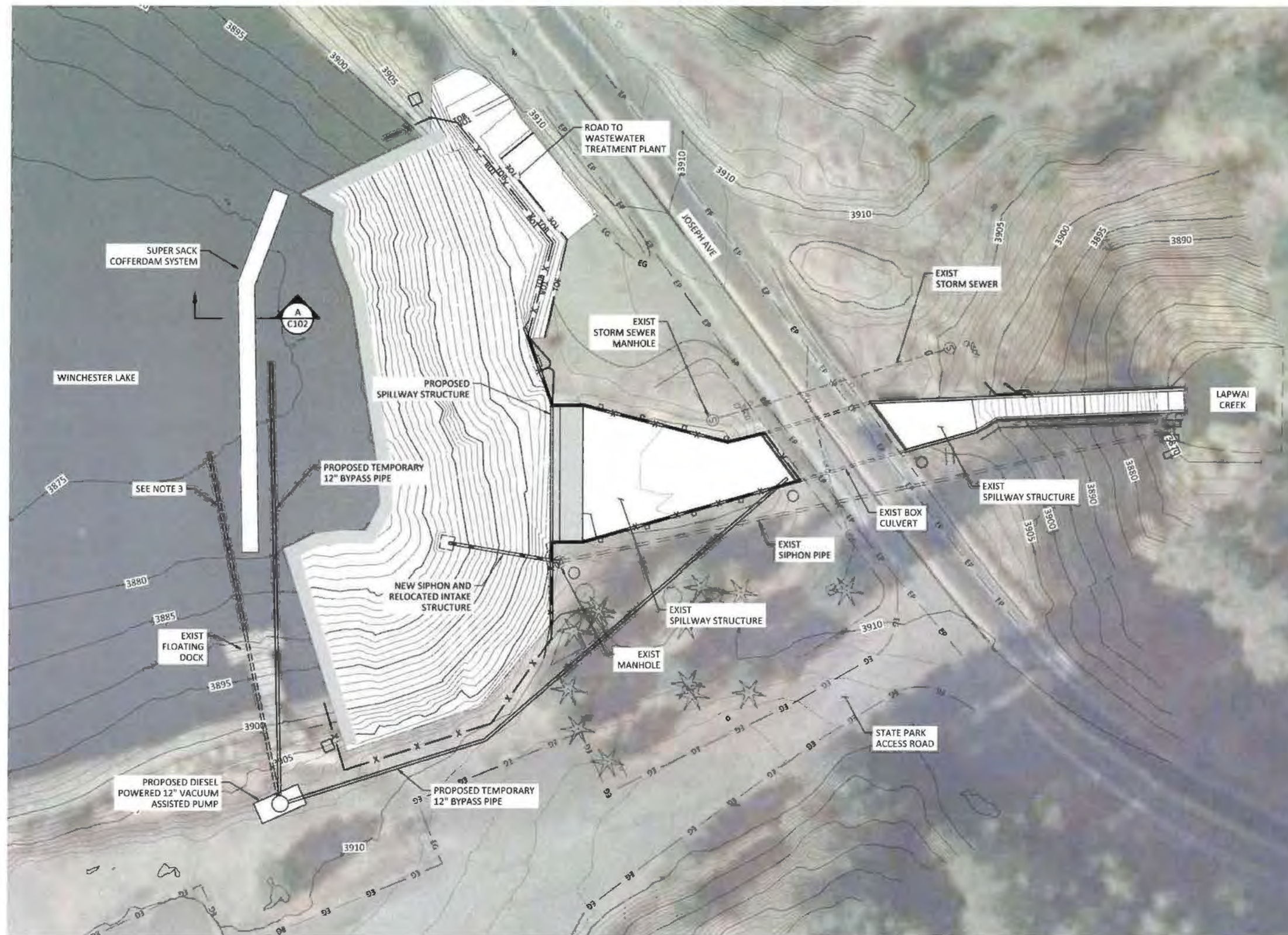


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
**OVERALL SITE KEY PLAN**

DESIGNED: P. GALASKA  
DRAWN: C. GERBER  
CHECKED: S. KLAWITTER  
PROJECT DATE: 12/19/25

DRAWING  
**C100**

C:\Users\ChloeGerber\OneDrive\Documents\Winchester Dam Rehab\Project Files\Drawings\125-005\_C100\_05-CIV.dwg



**SHEET NOTES:**

1. IDFG TO INITIALLY DEWATER WINCHESTER LAKE TO THE LOWEST EXTENT POSSIBLE WITH THE EXISTING SIPHON, APPROXIMATELY ELEVATION 3892.0
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING THE LAKE BELOW THE ELEVATION ACHIEVED BY USE OF THE SIPHON.
3. DRAWINGS ASSUME THAT A PUMPING SYSTEM AND SUPERSACK COFFERDAM (SEE C102) WILL BE UTILIZED TO LOWER THE LAKE LEVEL AND MAINTAIN A DRY WORK ENVIRONMENT FOR THE DURATION OF THE IN WATER WORK. THE PUMPING SYSTEM WILL BE OPERATED IN THE FOLLOWING PHASES:  
 PHASE 1 IDFG TO LOWER RESERVOIR WITH EXISTING SIPHON SYSTEM.  
 PHASE 2 CONTRACTOR TO DEWATER RESERVOIR TO CONTRACTOR'S REQUIRED ELEVATION TO ALLOW INSTALLATION OF CONTRACTOR'S DESIGNED COFFERDAM.  
 PHASE 3 INSTALL COFFERDAM.  
 PHASE 4 DEWATER WORK AREA DOWNSTREAM OF COFFERDAM.  
 PHASE 5 MOVE DEWATERING SYSTEM UPSTREAM OF COFFERDAM TO MAINTAIN RESERVOIR ELEVATION TO THE MAXIMUM DESIGN LEVEL OR BELOW, OF THE COFFERDAM SYSTEM.

**COFFERDAM DEWATERING PLAN**  
 SCALE: 1" = 20'



**IDAHO DEPARTMENT WATER RESOURCES  
 DAM SAFETY PROGRAM**

Reviewed *[Signature]*

Approved *[Signature]*

Date of Approval 1 28 26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
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IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 COFFERDAM/DEWATERING PLAN

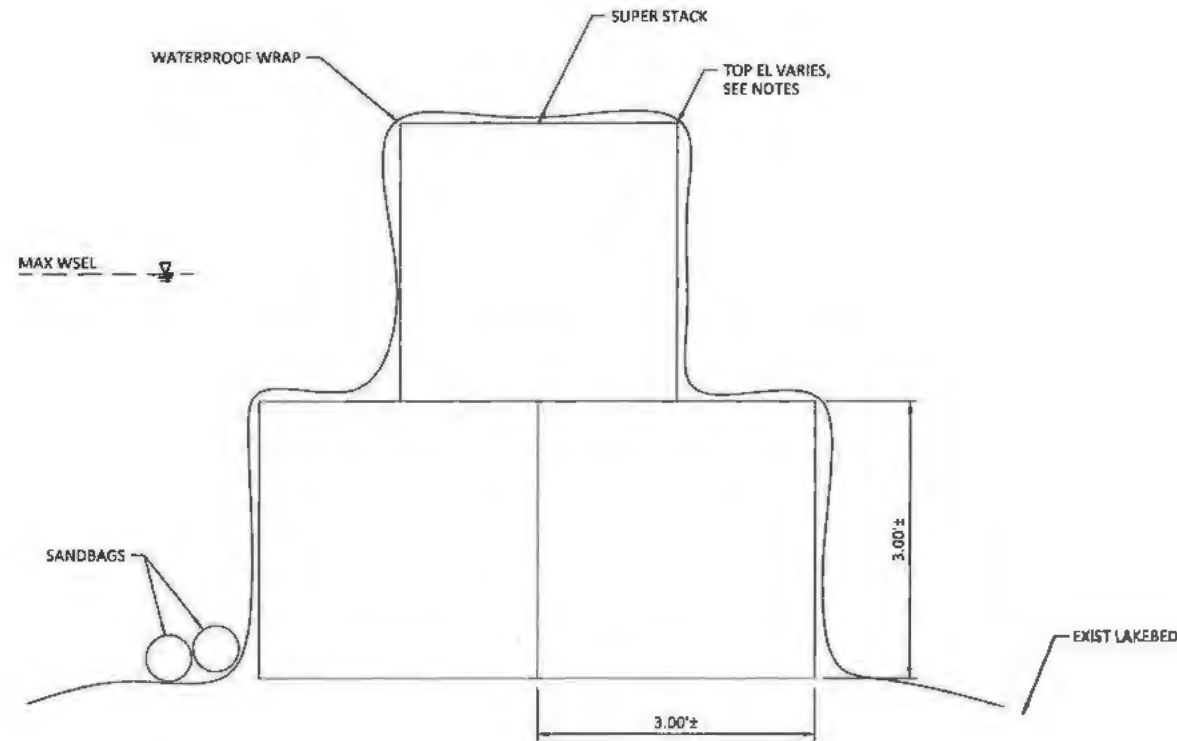
DESIGNED P. GALASKA  
 DRAWN C. GERBER  
 CHECKED S. KLAWITTER  
 PROJECT DATE 12/19/25

DRAWING  
**C101**

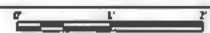
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**SHEET NOTES:**

1. TEMPORARY BERM STRUCTURE TO FOLLOW SPECIFICATION 13 40 00. DESIGN, PROCUREMENT, INSTALLATION, MAINTENANCE, AND REMOVAL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL MEET ONE OF THE FOLLOWING APPROVED METHODS; AT THE CONTRACTOR'S OPTION:
  1. CONVENTIONAL BERM
  2. FLEXIBLE INTERMEDIATE BULK CONTAINERS (FBIC; E.G. SUPER SACKS)
  3. PORTADAM
 THE TEMPORARY BERM STRUCTURE SHALL BE DESIGNED BY A QUALIFIED, LICENSED ENGINEER IN THE STATE OF IDAHO.
2. COFFERDAM HEIGHT WILL VARY BASED ON CONTRACTOR'S DEWATERING PLAN AND MAINTAINED WATER LEVEL DURING CONSTRUCTION.



**A** COFFERDAM - SECTION  
 C101 SCALE: 1"= 1'-0"



IDAHO DEPARTMENT WATER RESOURCES  
 DAM SAFETY PROGRAM

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: **1 28 26**

REV	DATE	BY	DESCRIPTION
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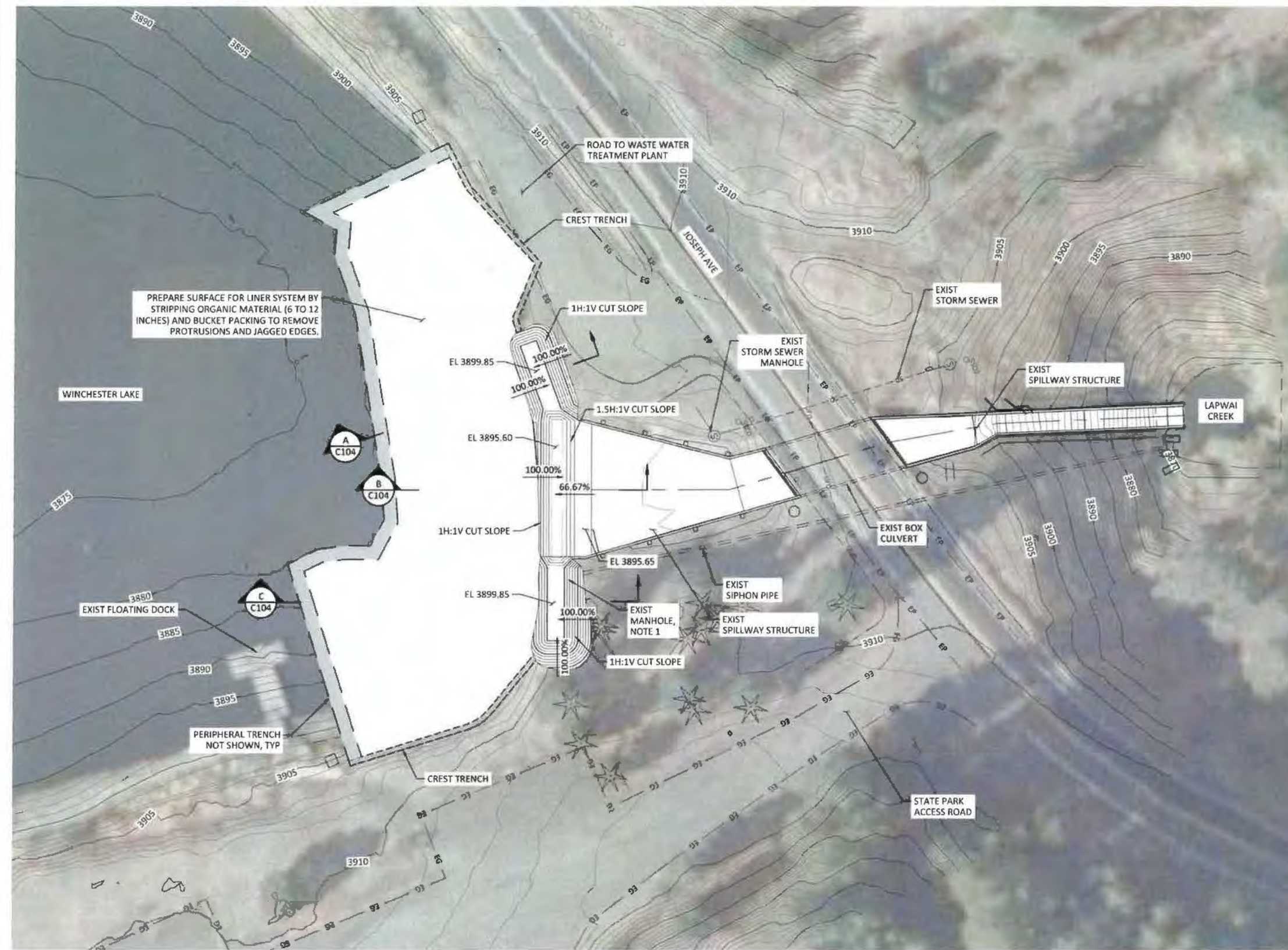


IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION

COFFERDAM/DEWATERING  
 SECTIONS AND DETAILS

DESIGNED: P. GALASKA  
 DRAWN: C. GERBER  
 CHECKED: S. KLAWITTER  
 PROJECT DATE: 12/19/25

DRAWING  
**C102**



**SHEET NOTES:**

1. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISTURBANCES OR DAMAGE TO THE EXISTING MANHOLE AND SIPHON LOCATED ADJACENT TO THE PROPOSED EXCAVATION NEAR THE RIGHT SPILLWAY APPROACH WALL. CONTRACTOR SHALL EXCAVATE EQUALLY AROUND THE MANHOLE. PROTECTIVE MEASURES SHALL BE IMPLEMENTED AS REQUIRED, INCLUDING HAND EXCAVATION OR USE OF VACUUM EXCAVATION WITHIN PROXIMITY TO THE MANHOLE, AS DETERMINED BY THE ENGINEER. ANY DAMAGE TO THE MANHOLE OR ITS CONNECTIONS RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE PROMPTLY REPORTED AND REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. CONTRACTOR MUST REMOVE EXISTING UPSTREAM SIPHON PIPE TO FACILITATE WORK ACTIVITIES RELATED TO THE SPILLWAY AND LINER SYSTEM INSTALLATION.

**EXCAVATION PLAN**  
SCALE: 1" = 20'

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*  
 Approved: *[Signature]*  
 Date of Approval: **1 28 26**

REV	DATE	BY	DESCRIPTION
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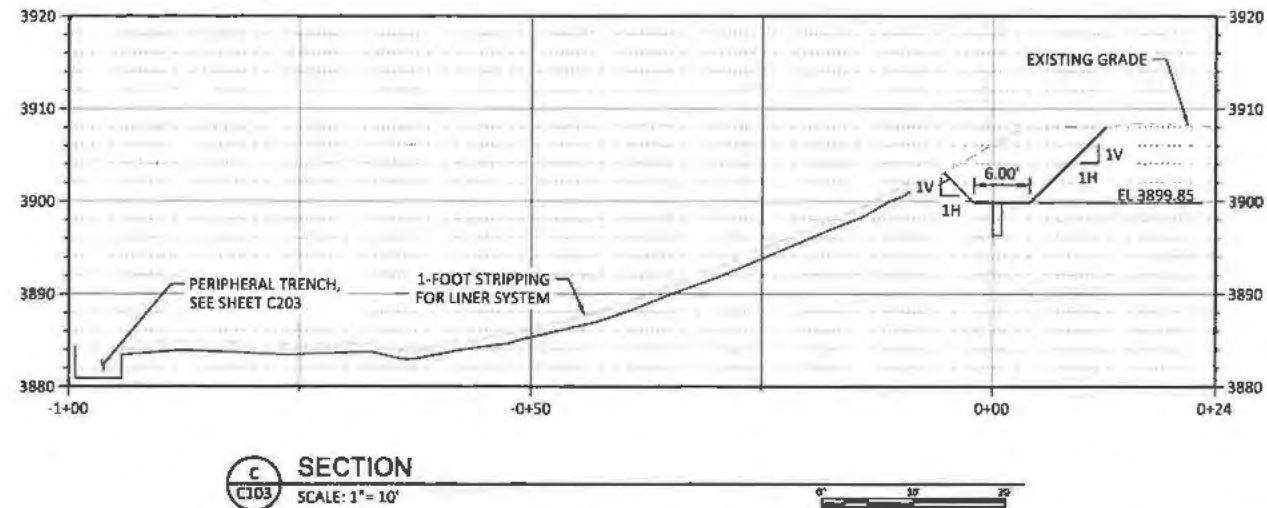
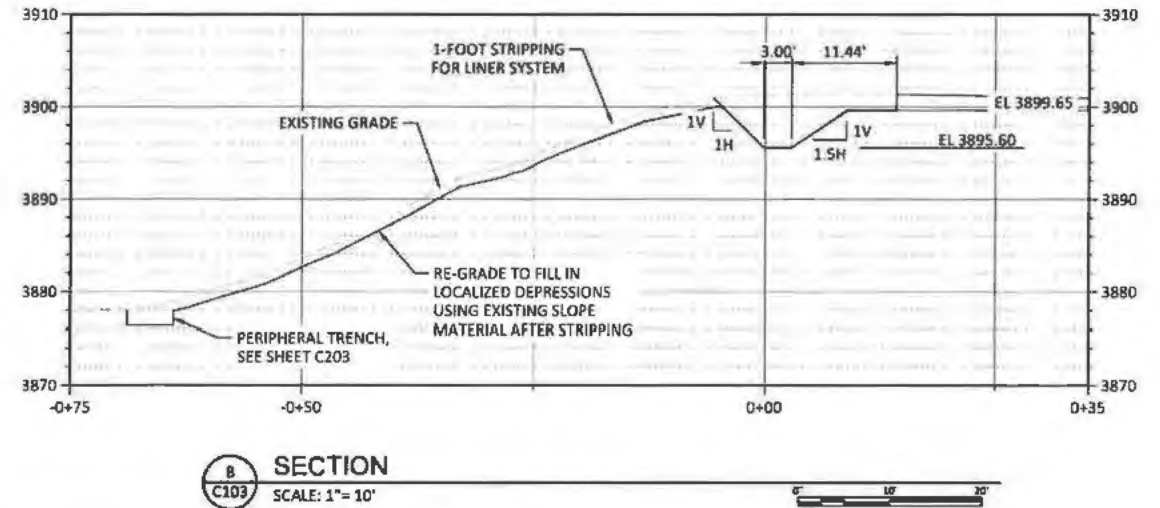
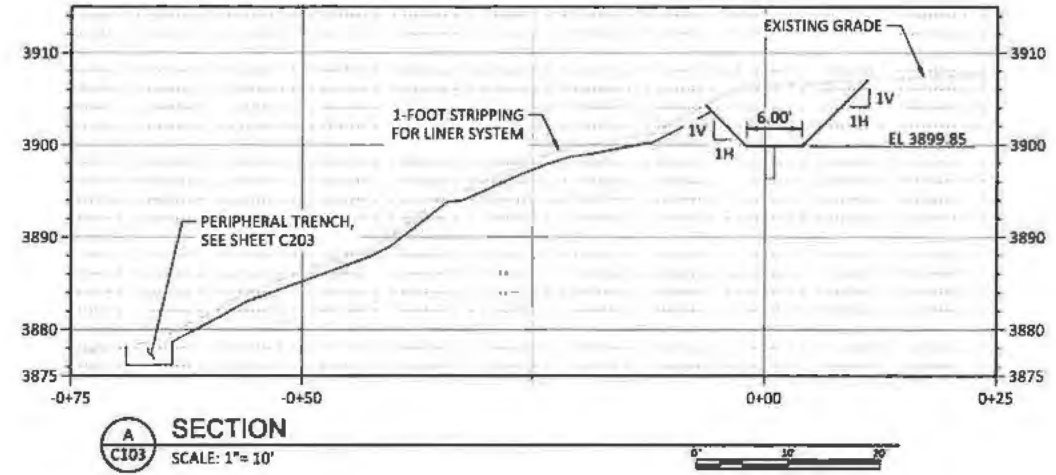


IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 EXCAVATION PLAN

DESIGNED: P. GALASKA  
 DRAWN: C. GERBER  
 CHECKED: S. KLAWITTER  
 PROJECT DATE: 12/19/25

DRAWING  
**C103**

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IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

Date of Approval **1 28 26**

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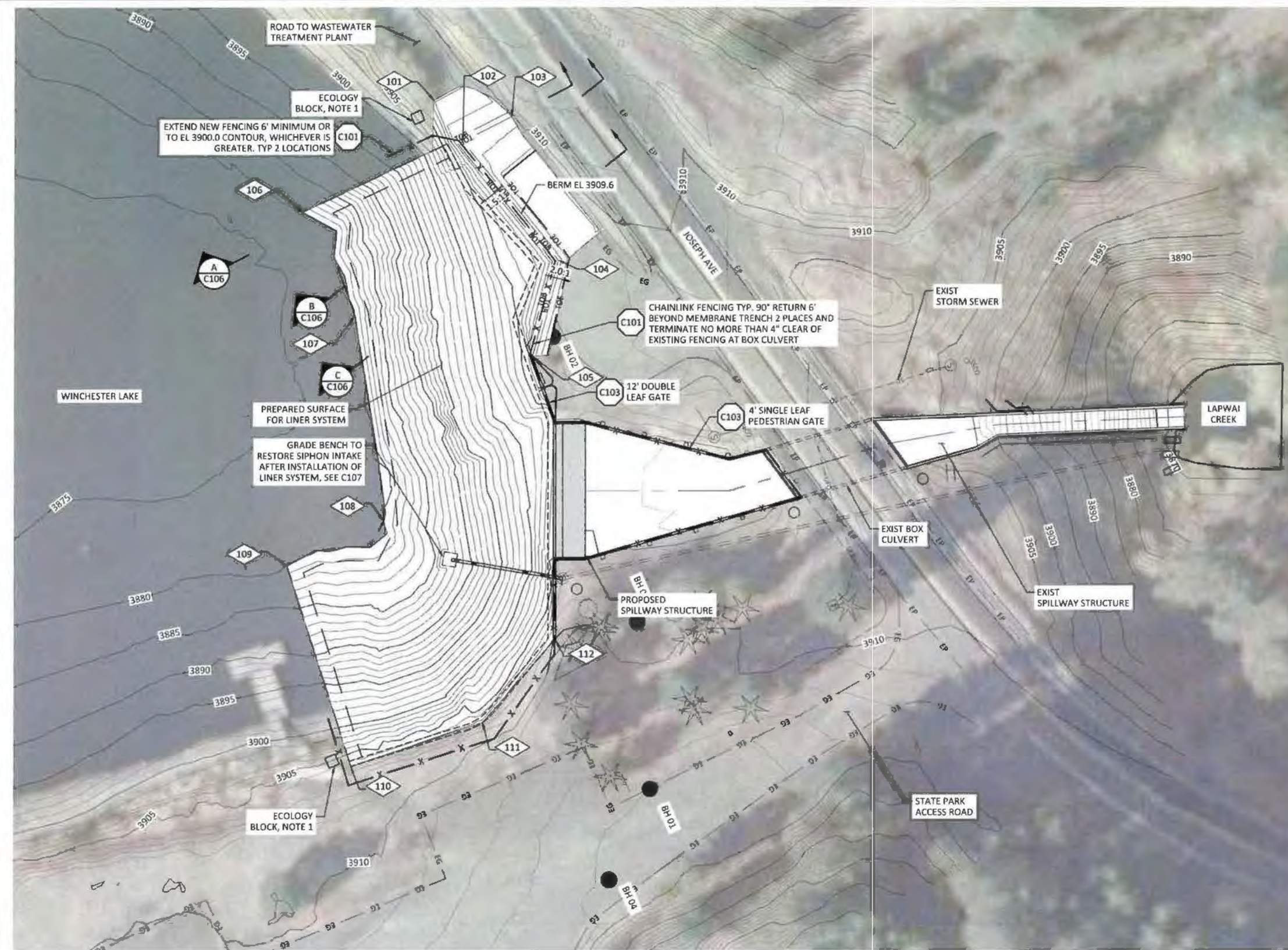
IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

**EXCAVATION SECTIONS**

DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

DRAWING  
**C104**

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**SHEET NOTES:**

- CONTRACTOR TO COORDINATE WITH IDFG TO INSTALL UP TO 10 NEW ECOLOGY BLOCKS OUTSIDE OF THE LINER SYSTEM EXTENTS FOR THE DEBRIS BOOM EXTENSION. IDFG RESPONSIBLE FOR DESIGN, INSTALLATION, AND IMPLEMENTATION OF THE DEBRIS BOOM.

GRADING POINTS			
POINT #	NORTHING	EASTING	ELEVATION
101	1667384.36	2404549.58	3907.94
102	1667387.98	2404568.03	3909.60
103	1667408.11	2404566.73	3909.60
104	1667402.19	2404622.42	3909.60
105	1667378.94	2404651.29	3909.60
106	1667323.02	2404567.83	3880.00
107	1667325.07	2404610.55	3880.00
108	1667303.82	2404684.86	3879.98
109	1667264.54	2404685.41	3880.20
110	1667255.58	2404763.23	3906.71
111	1667306.96	2404768.34	3907.45
112	1667344.00	2404751.45	3910.13

**FINAL GRADING PLAN**  
SCALE: 1" = 20'



**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*

Approved: \_\_\_\_\_

Date of Approval: **1 28 26**

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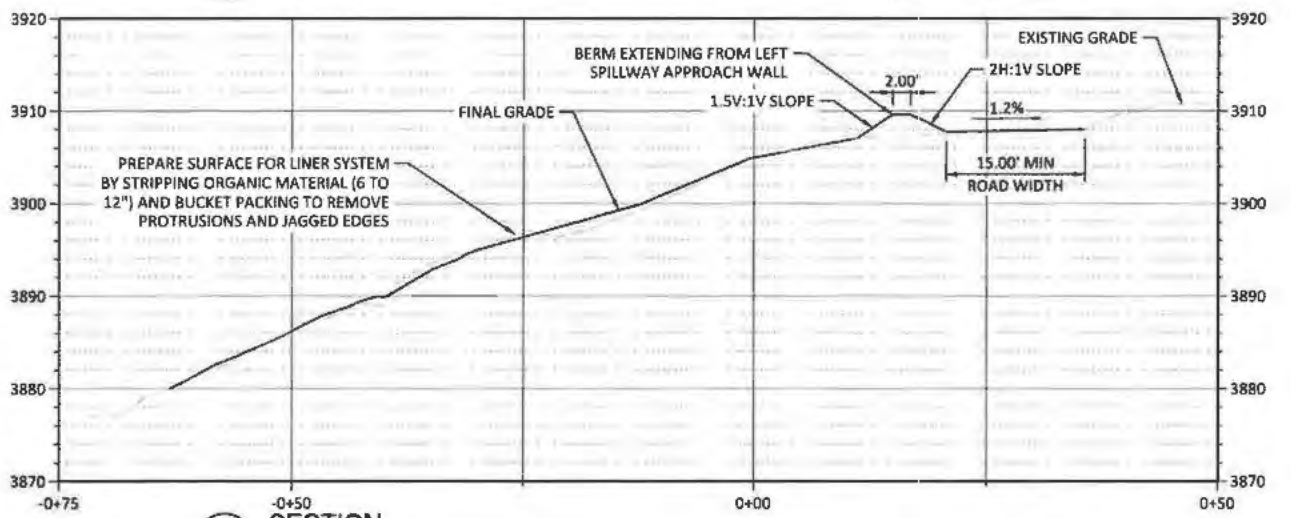
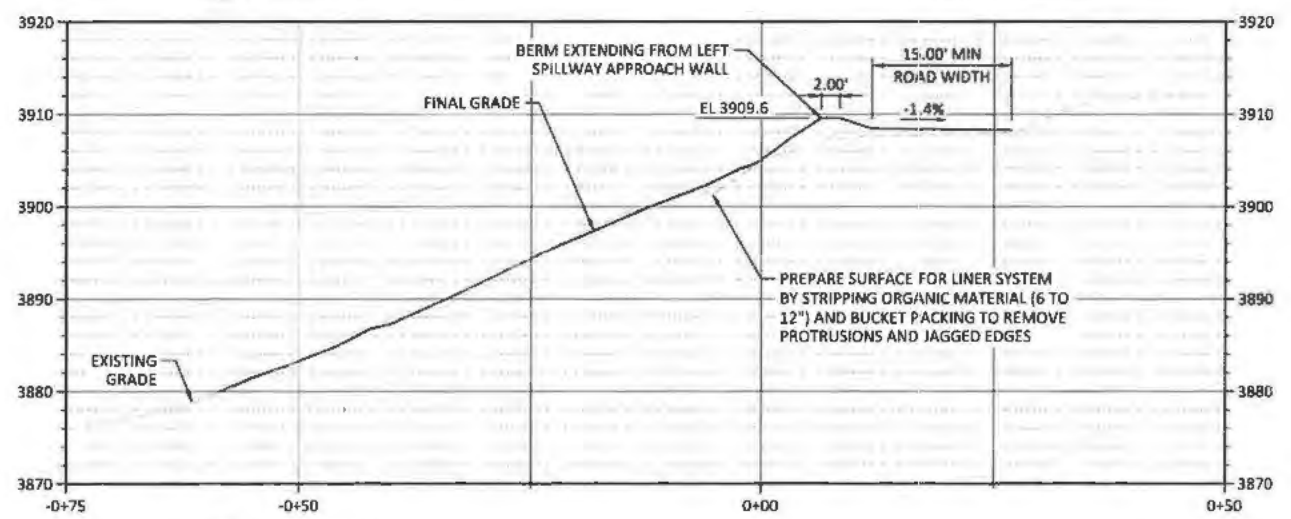
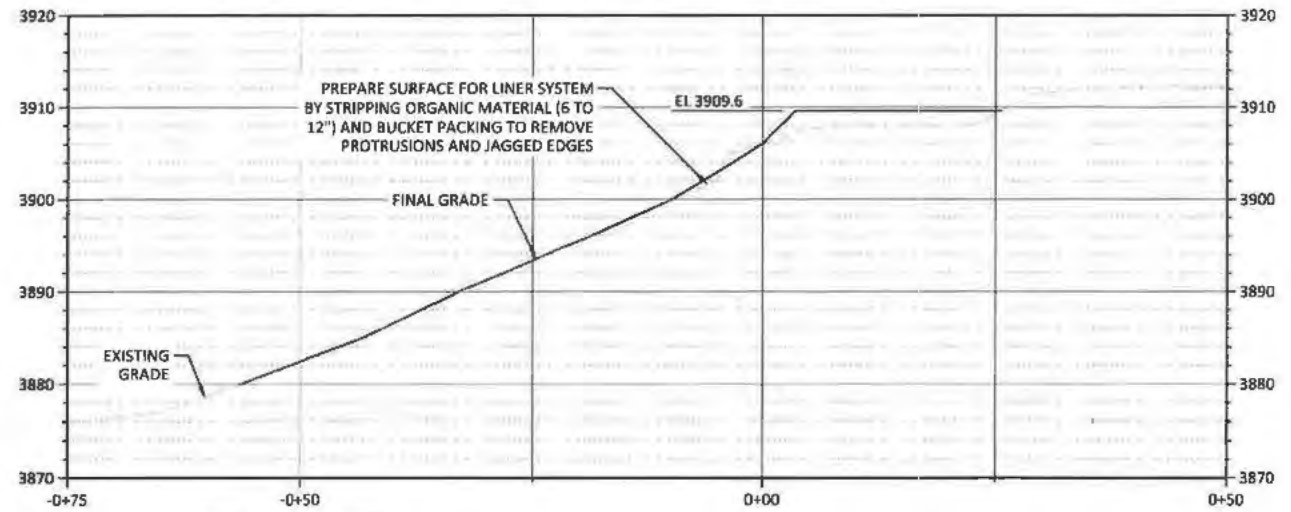
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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
**FINAL GRADING PLAN**

DESIGNED: P. GALASKA  
DRAWN: C. GERBER  
CHECKED: S. KLAWITTER  
PROJECT DATE: 12/19/25

DRAWING  
**C105**



IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed *[Signature]*

Approved *[Signature]*

1 28 26

Date of Approval \_\_\_\_\_

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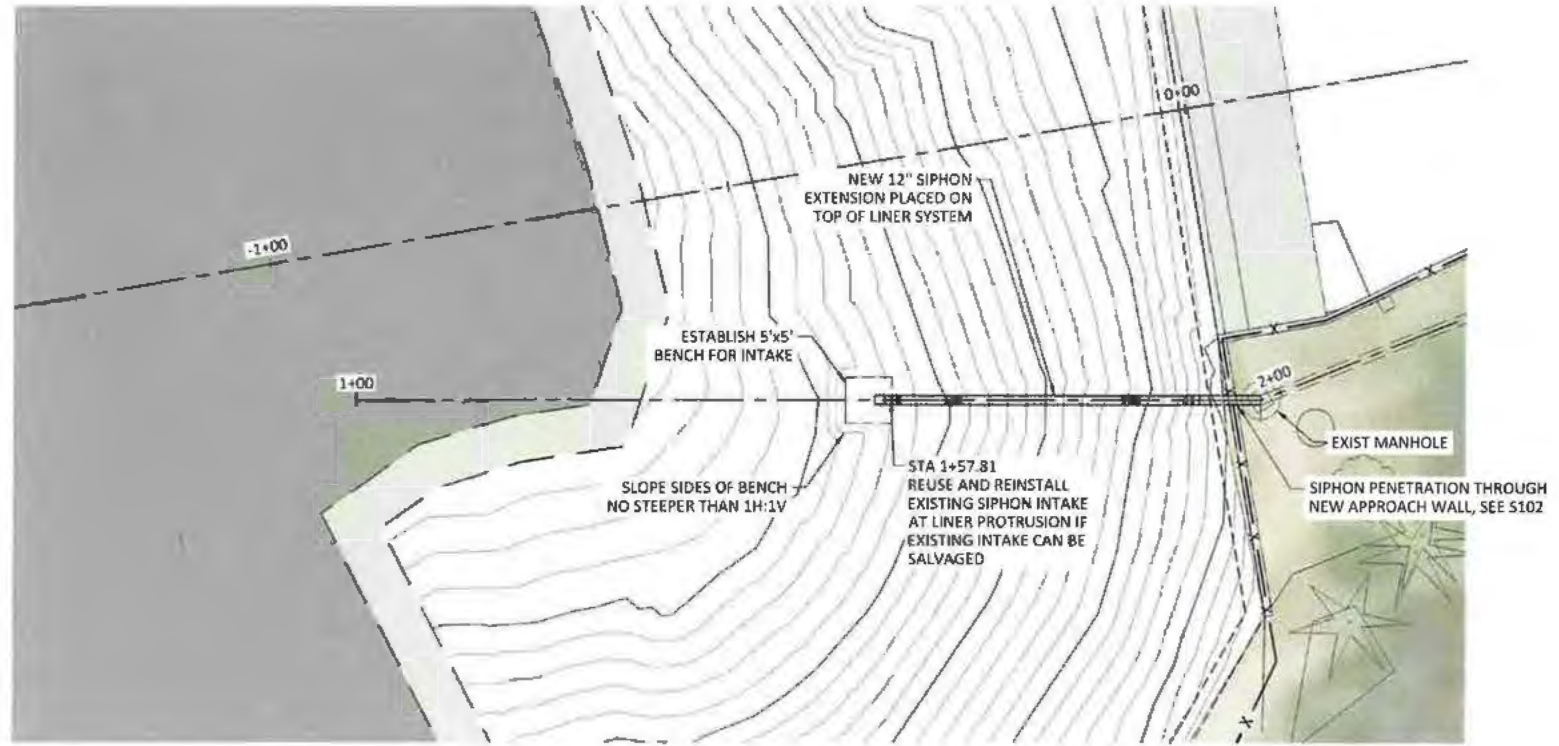


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
FINAL GRADING SECTIONS

DESIGNED P. GALASKA  
DRAWN C. GERBER  
CHECKED S. KLAWITTER  
PROJECT DATE 12/19/25

DRAWING  
**C106**

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**SIPHON PLAN**  
SCALE: 1" = 10'

**SHEET NOTES:**

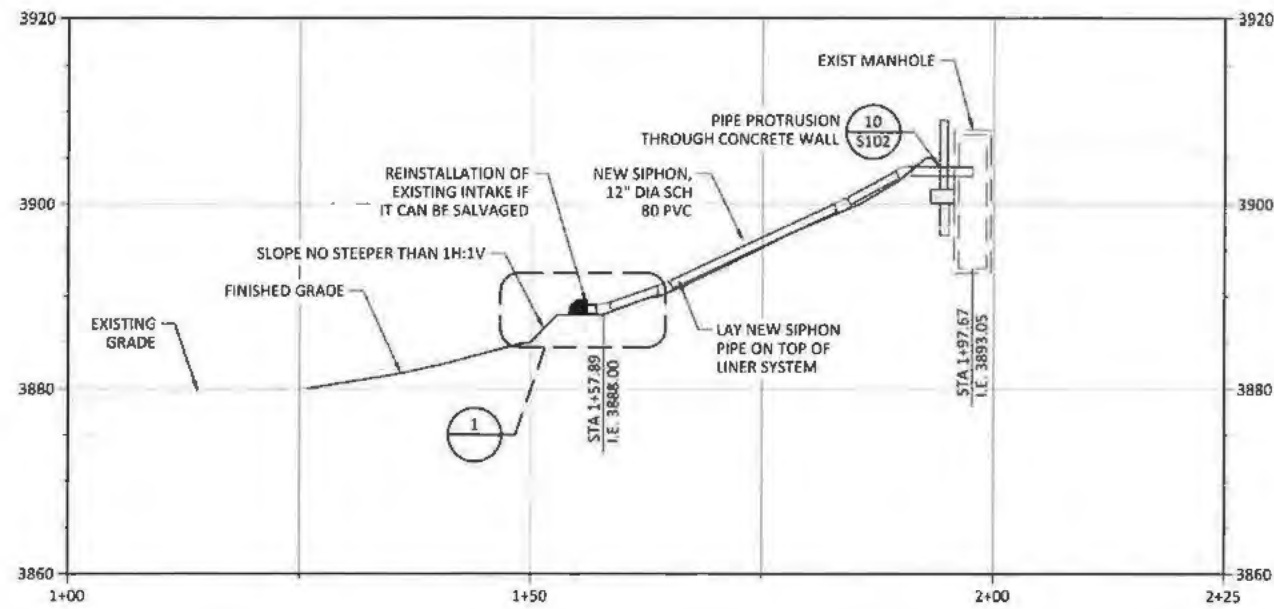
1. LOCATION AND ELEVATIONS OF EXISTING SIPHON ARE CONSIDERED APPROXIMATE AND BASED ON RECORD DRAWINGS AND HISTORICAL INFORMATION. CONTRACTOR TO VERIFY IN FIELD.
2. SEE TEMPORARY COFFERDAM AND DEWATERING SPECIFICATION AND PLAN SHEET C101 FOR DETAILS OR REQUIREMENTS FOR DEWATERING INFORMATION.
3. CONTRACTOR TO DEMOLISH EXISTING SIPHON PIPE AND SALVAGE EXISTING INTAKE TO PERMIT GRADING WORK AND INSTALLATION OF LINER SYSTEM PRIOR TO INSTALLATION OF NEW EXTENDED SIPHON PIPE.
4. IF THE EXISTING INTAKE CAN BE SALVAGED, CONNECT THE INTAKE TO THE PROTRUDING SIPHON SECTION.
5. CONTRACTOR TO INSTALL NEW 12" DIAMETER SCH 80 PVC SIPHON PIPE AND RE-GRADE SURFACE, CREATING 5'x5' BENCH AT EL 3888. REFERENCE GC001 FOR GENERAL NOTES ON PVC PIPING AND JOINTS.
6. AFTER LINER SYSTEM IS INSTALLED, COMPLETE PIPE PROTRUSION (SEE DETAIL ON S102) TO ALLOW SIPHON PIPE TO PASS THROUGH THE NEW CONCRETE WINGWALL.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

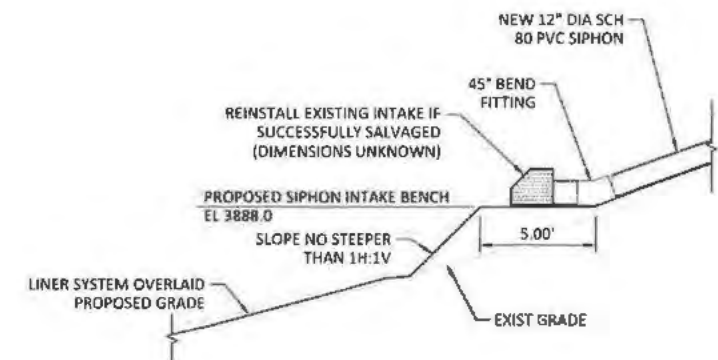
Reviewed: *[Signature]*

Approved: *[Signature]*  
1.20.25

Date of Approval



**SIPHON PROFILE**  
SCALE: 1" = 10'



**1 INTAKE PAD GRADING DETAIL**  
SCALE: NTS

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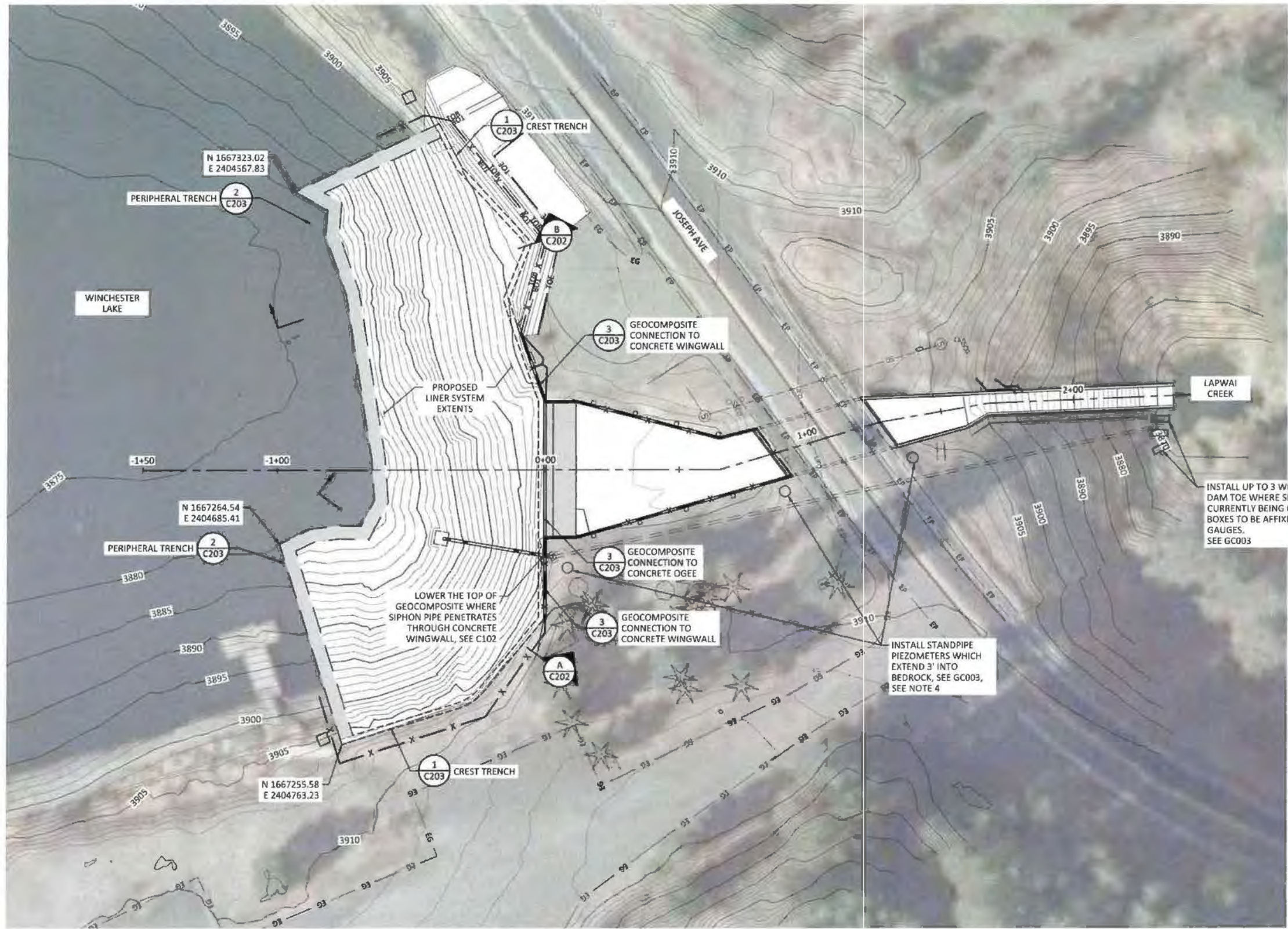


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IDAHO DEPARTMENT OF FISH AND GAME WINCHESTER DAM REHABILITATION	DESIGNED <u>P. GALASKA</u> DRAWN <u>C. GERBER</u> CHECKED <u>S. KLAWITTER</u> PROJECT DATE <u>12/19/25</u>
SIPHON EXTENSION PLAN AND PROFILE	

DRAWING  
**C107**



**SHEET NOTES:**

1. FOR EXCAVATION AND GRADING DEFINITION OF SCOPE OF WORK, SEE SHEETS C103 TO C106.
2. CONTRACTOR SHALL PROVIDE TO ENGINEER FOR APPROVAL THE SUBMITTALS LISTED IN SPECIFICATIONS 01 33 00 AND 31 05 19 FOR THE LINER SYSTEM:
3. INSTALLATION OF LINER SYSTEM SHALL NOT OCCUR WHEN AMBIENT TEMPERATURE IS BELOW 40°F WITHOUT PRIOR APPROVAL OF ENGINEER. IF THE LINER SYSTEM IS TO BE INSTALLED IN AMBIENT TEMPERATURES BELOW 40°, THE CONTRACTOR SHALL SUBMIT A COLD WEATHER WORK PLAN TO THE ENGINEER FOR APPROVAL.
4. FINAL PIEZOMETER LOCATIONS SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER AS REQUIRED TO ACCOMMODATE DRILL RIG ACCESS. UTILITY LOCATION AND CLEARANCE OF EXISTING SIPHON PIPE AND OTHER BURIED UTILITIES WILL BE REQUIRED.

INSTALL UP TO 3 WEIR BOXES IN THE DAM TOE WHERE SEEPAGE IS CURRENTLY BEING OBSERVED. WEIR BOXES TO BE AFFIXED WITH STAFF GAUGES. SEE GC003

INSTALL STANDPIPE PIEZOMETERS WHICH EXTEND 3' INTO BEDROCK. SEE GC003, SEE NOTE 4

LOWER THE TOP OF GEOCOMPOSITE WHERE SIPHON PIPE PENETRATES THROUGH CONCRETE WINGWALL. SEE C102

**LINER SYSTEM AND INSTRUMENTATION PLAN**  
SCALE: 1" = 20'



**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*  
Approved: *[Signature]*  
Date of Approval: **1 28 26**

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

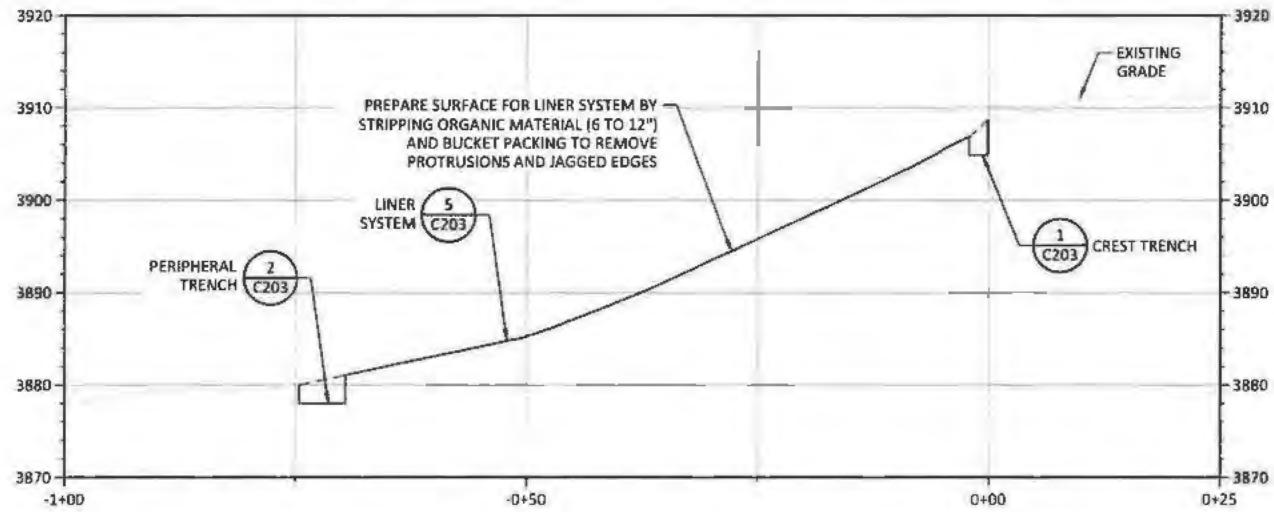


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
**LINER SYSTEM AND INSTRUMENTATION PLAN**

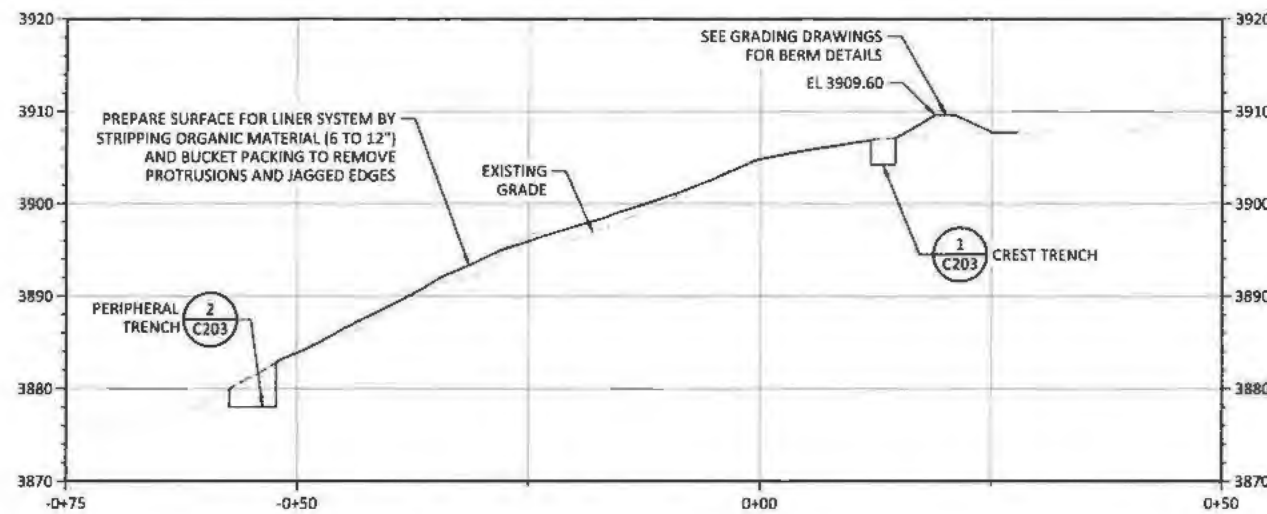
DESIGNED B. WARD  
DRAWN C. GERBER  
CHECKED A. BONTEMPO  
PROJECT DATE 12/19/25

DRAWING  
**C201**

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**A**  
SECTION  
SCALE: 1" = 10'



**B**  
SECTION  
SCALE: 1" = 10'



**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: **1 28 26**

REV	DATE	BY	DESCRIPTION
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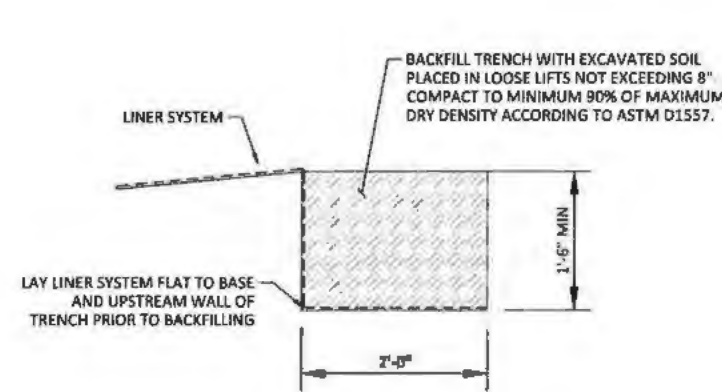
IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

LINER SYSTEM  
SECTIONS AND DETAILS 1

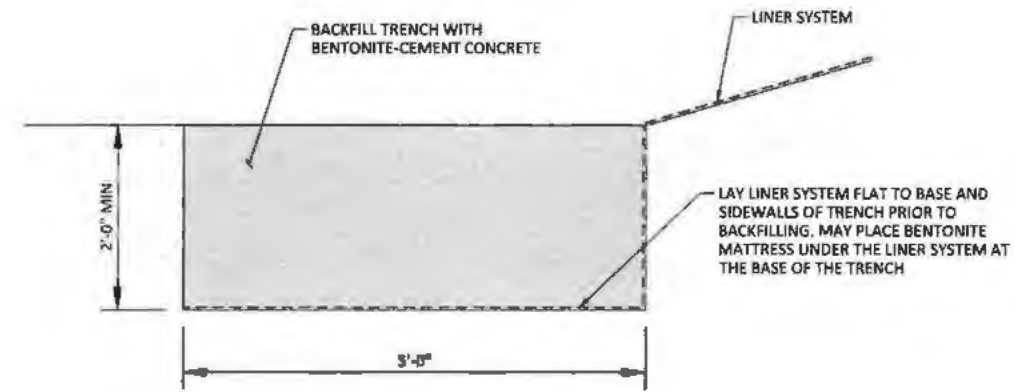
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DRAWN C. GERBER  
CHECKED A. BONTEMPO  
PROJECT DATE 12/19/25

DRAWING  
**C202**

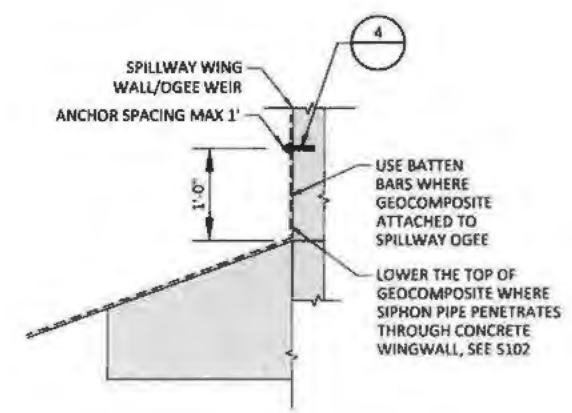
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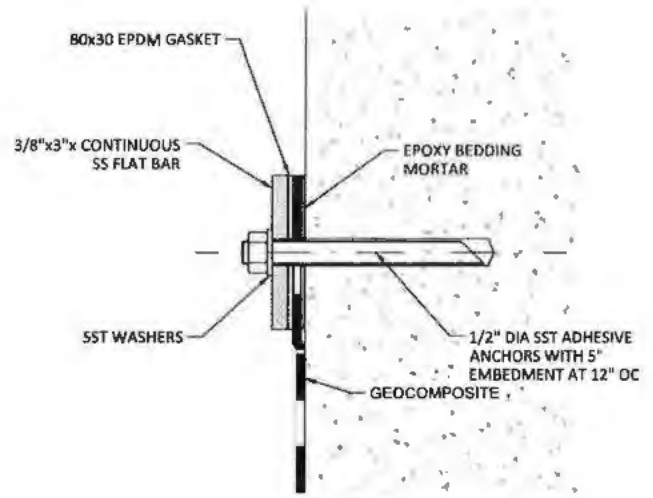
1 CREST TRENCH  
C201 SCALE: 1"= 1'-0"



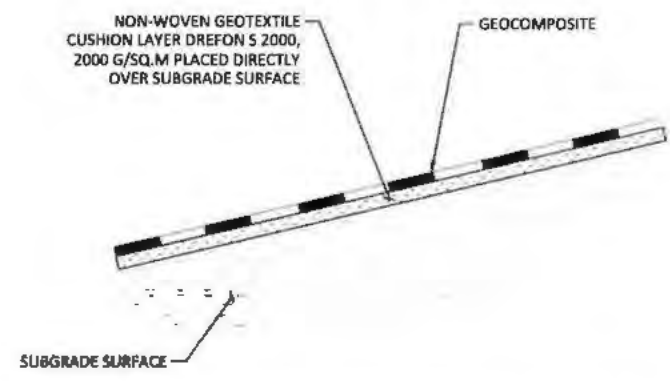
2 PERIPHERAL TRENCH  
C201 SCALE: 1"= 1'-0"



3 GEOSYNTHETIC CONNECTION TO CONCRETE FACES  
C201 SCALE: 1"= 1'-0"



4 ANCHOR SEAL FOR LINER CONNECTION TO CONCRETE FACING  
C201 SCALE: 1/4"= 1'-0"



NOTE:  
1. LINER SYSTEM COMPRISES GEOSYNTHETIC PLACED OVER CUSHION LAYER. SEE SPECIFICATION 31 05 19 FOR MATERIAL DESCRIPTIONS.  
5 LINER SYSTEM  
NTS

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM  
Reviewed: *[Signature]*  
Approved: *[Signature]*  
Date of Approval: 1 28 26

REV	DATE	MM	BY	DESCRIPTION
0	12/19/25	MM		ISSUED FOR CONSTRUCTION



WARNING  
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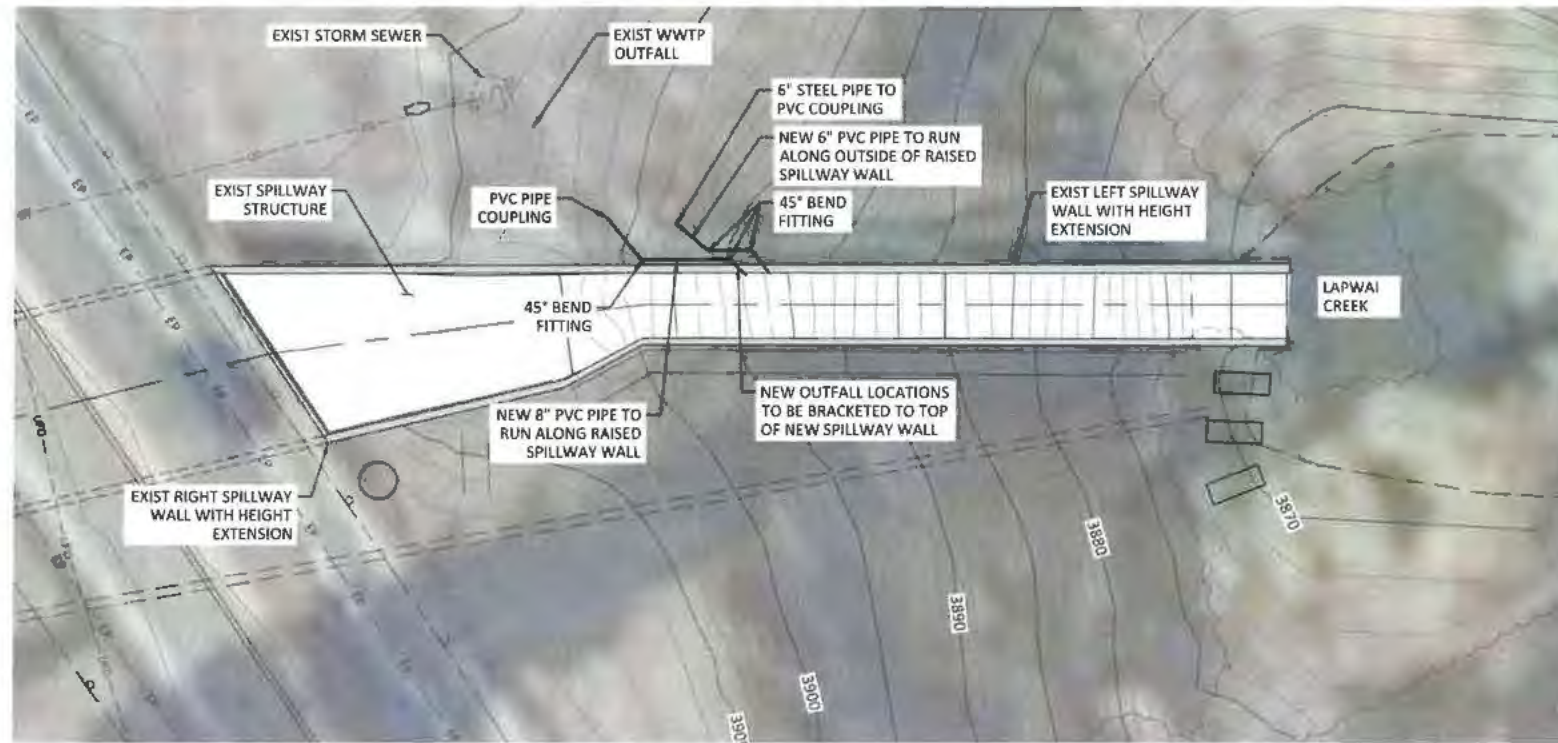


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
LINER SYSTEM  
SECTIONS AND DETAILS 2

DESIGNED: B. WARD  
DRAWN: C. GERBER  
CHECKED: A. BONTEMPO  
PROJECT DATE: 12/19/25

DRAWING  
C203

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**SHEET NOTES:**

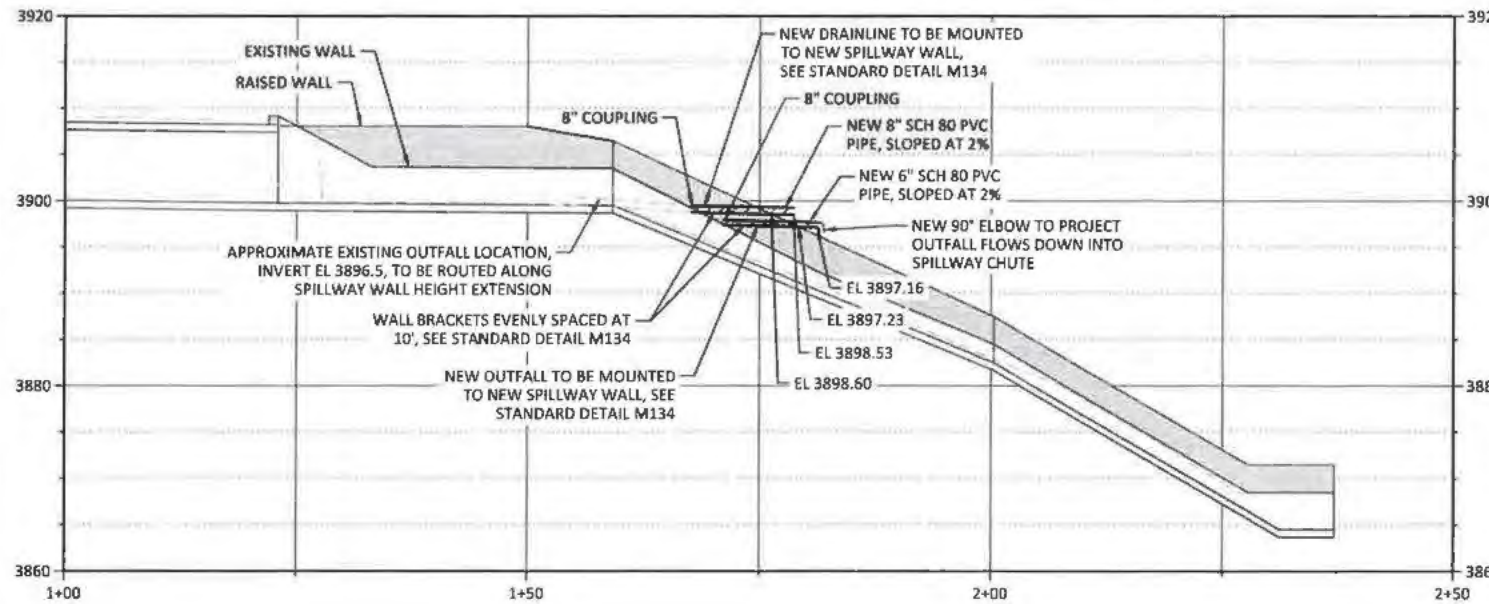
1. DEMOLISH PORTIONS OF WWTP OUTFALL AND DRAIN LINE BACK TO 1 FOOT OF PIPE DAYLIGHTING BEYOND EXISTING GRADE TO ALLOW FOR NEW INSTALLATION OF OUTFALLS DOWNSTREAM AND OVER THE TOP OF EXTENDED SPILLWAY WALLS AS SHOWN. CONTRACTOR TO COORDINATE ALL REQUIRED SHUTDOWNS OF OUTFALLS AND POSSIBLE TEMPORARY LINE WITH IDFG AND WWTP.
2. ALL PIPE EXTENSIONS ARE TO MATCH EXISTING PIPE DIAMETERS. PIPE EXTENSIONS ARE PROPOSED PVC.
3. PIPE EXTENSIONS ARE TO BE BRACKETED TO THE PROPOSED WALL RAISE UTILIZING PIPE HANGERS AS IDENTIFIED IN STANDARD DETAIL M134.
4. REFERENCE GC001 FOR GENERAL NOTES ON BRIDGING AND JOINTS.

IDAHO DEPARTMENT OF FISH AND GAME  
DAM SAFETY PROGRAM

Reviewed: *[Signature]*  
Approved: *[Signature]*  
Date of Approval: 1 28 26

**OUTFALL PIPE REROUTING PLAN**

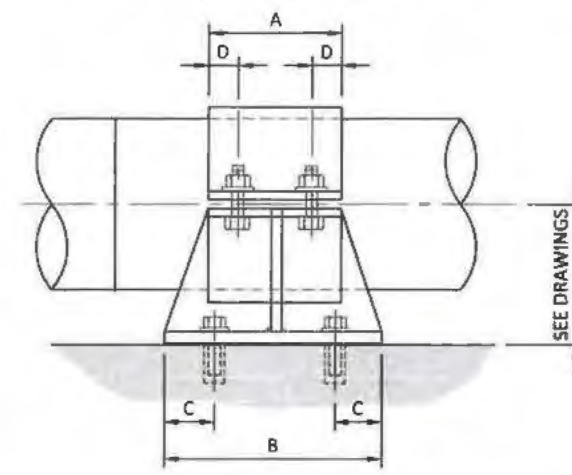
SCALE: 1" = 10'



**SPILLWAY WALL PROFILE**

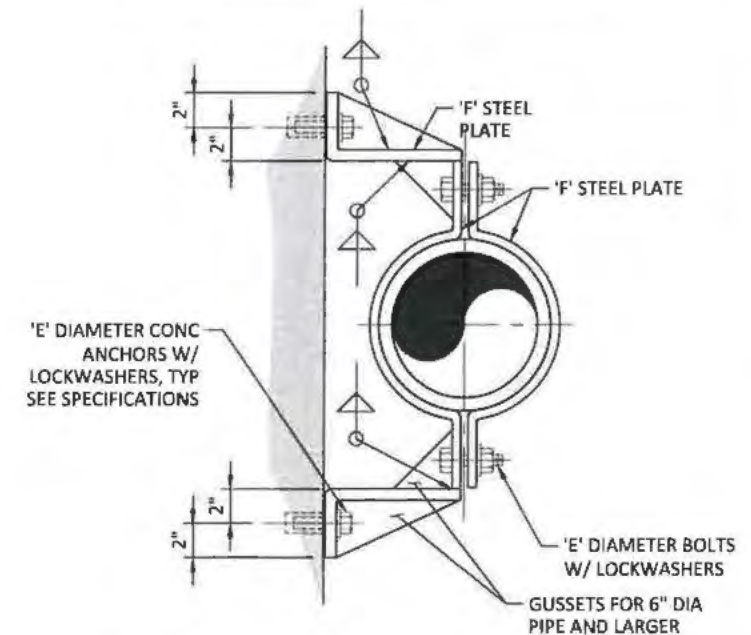
SCALE: 1" = 10'

- NOTE:**
1. GALVANIZE ALL PARTS AFTER FABRICATION.
  2. ALL BOLTS, ANCHORS, NUTS AND LOCKWASHERS EXPOSED TO WATER SHALL BE TYPE 316 SST.
  3. FOR 16"-24" DIAMETER PIPES, PROVIDE THREE CONCRETE ANCHORS (SEE SPECS) AT 6" SPACING AND TWO GUSSETS AT 4" SPACING EACH SIDE OF HANGER.
  4. FOR ADDITIONAL REQUIREMENTS SEE SPECIFICATIONS SECTION 'PIPE SUPPORTS'.



**M134 PIPE HANGER FOR INDIVIDUAL PIPE**  
SCALE: NTS

DIMENSIONS IN INCHES						
PIPE DIAMETER	"A"	"B"	"C"	"D"	"E"	"F"
3 TO 8	6	10	1 1/2"	1	5/8"	1/4"
10 TO 14	8	12	2	1 1/2"	3/4"	3/8"
16 TO 24	12	16	2	1 1/2"	3/4"	3/8"



REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
**OUTFALL PIPE REROUTING PLAN AND PROFILE**

DESIGNED: P. GALASKA  
DRAWN: C. GERBER  
CHECKED: S. KLAWITTER  
PROJECT DATE: 12/19/25

DRAWING  
**C300**

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**GENERAL STRUCTURAL NOTES:**

THE FOLLOWING NOTES ARE GENERAL AND APPLY TO THE ENTIRE PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE.

**GENERAL:**

- DO NOT SUBSTITUTE MATERIALS OR COMPONENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- DO NOT SCALE THE DRAWINGS.
- FOR ABBREVIATIONS NOT LISTED, SEE ASME Y14.38 "ABBREVIATIONS AND ACRONYMS: PUBLICATION AS DISTRIBUTED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ABBREVIATIONS UNKNOWN TO THE CONTRACTOR.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER STANDARD DETAILS NOTES.
- STANDARD DETAILS ARE APPLICABLE WHEN REFERRED TO OR WHEN NO OTHER MORE RESTRICTIVE OR SPECIFIC DETAILS ARE SHOWN ON THE DRAWINGS.
- STANDARD AND SPECIFIC DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT, UNLESS NOTED OTHERWISE.
- INFORMATION (DETAILING, DIMENSIONS, CONFIGURATIONS, AND ELEVATIONS, ETC.) OF EXISTING CONSTRUCTION SHOWN REFLECTS AVAILABLE EXISTING DESIGN DOCUMENTS AND DOES NOT NECESSARILY REPRESENT THE AS-CONSTRUCTED CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, ELEVATIONS AND DETAILING OF THE EXISTING STRUCTURES PRIOR TO UNDERTAKING ANY WORK THAT IS AFFECTED BY THE EXISTING STRUCTURE.
- CONTRACTOR'S WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- SPECIFICATIONS, CODES AND STANDARDS NOTED SHALL BE OF THE LATEST APPROVED ISSUE, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

**DESIGN CRITERIA:**

1. APPLICABLE CODES AND STANDARDS

ORGANIZATION	CODE OR STANDARD	
ACI	ACI 301-16	SPECIFICATIONS FOR STRUCTURAL CONCRETE
ACI	ACI 318-19	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ACI	ACI 350-20	CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES
ASCE	ASCE 7-22	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
USACE	EM 1110-2-2100	STABILITY ANALYSIS OF CONCRETE STRUCTURES
USACE	EM-1110-2-2104	STRENGTH DESIGN FOR REINFORCED CONCRETE HYDRAULIC STRUCTURES

- REFER TO THE DRAWINGS FOR ADDITIONAL SPECIFIC STRUCTURAL LOADINGS AND REQUIREMENTS.
- LOADS SHOWN ARE SERVICE LEVEL (UNFACTORED) UNLESS NOTED OTHERWISE.
- DEAD LOADS

REINFORCED CONCRETE	150 PCF
STEEL	490 PCF

5. LIVE LOADS

CONSTRUCTION (VERTICAL SURCHARGE)	220 PSF
CONSTRUCTION (EQUIVALENT LATERAL ACTIVE PRESSURE)	110 PSF

6. WIND LOAD

BASIC DESIGN WIND SPEED (V) (3-SEC GUST)	114 MPH
RISK CATEGORY	IV
WIND EXPOSURE	C

7. SNOW LOAD

GROUND SNOW LOAD (P <sub>g</sub> )	12B PSF
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8. SEISMIC LOAD

MAX PEAK GROUND ACCELERATION (PGA)	0.18 g
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9. EARTH LOADS: SEE GEOTECHNICAL DESIGN PARAMETERS

10. HYDROSTATIC LOADS:

10-YR WSEL (USUAL)	3906.2 FT
100-YR WSEL (UNUSUAL)	3906.7 FT
500-YR WSEL (EXTREME)	3906.9 FT

- EXISTING SPILLWAY WALLS WITH NEW HEIGHT EXTENSION WERE NOT DESIGNED FOR ADDITIONAL BACKFILL BEYOND THE EXISTING CONDITIONS.
- IMPROVING THE SLIDING STABILITY OF THE STEEP DOWNSTREAM SECTION OF SPILLWAY AND THE EMBANKMENT SLOPE UNDER IT WERE NOT WITHIN THE SCOPE OF THIS PROJECT. IT WAS DETERMINED THAT THE NEW WALL HEIGHT EXTENSIONS WILL NOT DECREASE THE EXISTING STABILITY OF THIS SECTION.

**GEOTECHNICAL DESIGN PARAMETERS:**

- GEOTECHNICAL DESIGN CRITERIA IS BASED ON THE RECOMMENDATIONS AND DATA DOCUMENTED IN THE FOLLOWING GEOTECHNICAL REPORT(S):

TITLE	BY	DATE
GEOTECHNICAL DATA REPORT WINCHESTER DAM REMEDIATION PROJECT LEWIS COUNTY, IDAHO	SLATE GEOTECHNICAL CONSULTANTS, INC. OAKLAND, CA	JULY 16, 2025
LOG OF EXPLORATION HOLE	CONSULTING GEOTECHNICAL ENGINEERS- R. ERICKSON, D. OSTERMAN	JUNE 9, 1978

- THE PARAMETERS SHOWN ARE PRESUMPTIVE AND BASED ON EXPLORATIVE DRILLING AND AS-BUILT DRAWINGS.

ALLOWABLE BEARING PRESSURE	
SPILLWAY FOUNDATION	2,000 PSF
EQUIVALENT FLUID UNIT WEIGHT (MOIST) - EXISTING BACKFILL	
ACTIVE	36 PCF
AT-REST	55 PCF
PASSIVE	330 PCF
EQUIVALENT FLUID UNIT WEIGHT (MOIST) - NEW BACKFILL	
ACTIVE	40 PCF
AT-REST	60 PCF
PASSIVE	360 PCF
UNIT WEIGHT - EXISTING BACKFILL	
MOIST UNIT WEIGHT	110 PCF
SATURATED UNIT WEIGHT	115 PCF
UNIT WEIGHT - NEW BACKFILL	
MOIST UNIT WEIGHT	120 PCF
SATURATED UNIT WEIGHT	135 PCF
COEFFICIENT OF FRICTION	
CONCRETE ON FOUNDATION MATERIAL	0.46

**TESTING AND INSPECTIONS:**

- CONTRACTOR SHALL MAKE THE WORK ACCESSIBLE FOR INSPECTION BY OWNER, ENGINEER, AND THE AUTHORITY HAVING JURISDICTION. WORK SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION UNTIL APPROVED.
- VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE CONSTRUCTION DO NOT MEAN THAT THE ENGINEER IS GUARANTOR OF CONTRACTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

**FOUNDATIONS AND EXCAVATION:**

- EXCAVATIONS SHALL BE SHORED TO PREVENT SUBSIDENCE OR DAMAGE TO ADJACENT EXISTING STRUCTURES, STREETS, UTILITIES, ETC.
- FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE ENGINEER OR QUALIFIED DESIGNEE PRIOR TO PLACEMENT OF FORMWORK OR REINFORCING STEEL.

**FORMWORK, SHORING AND BRACING:**

- STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. CONTRACTOR SHALL DETERMINE METHODS OF ERECTION, BRACING, SHORING, RIGGING, FALSEWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK.
- DO NOT BACKFILL CANTILEVER CONCRETE WALLS UNTIL CONCRETE HAS ATTAINED 100 PERCENT OF THE DESIGN COMPRESSIVE STRENGTH.

**CONCRETE:**

- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS INDICATED:

CONCRETE TYPE	f <sub>c</sub>
CAST-IN-PLACE (UNLESS NOTED OTHERWISE)	4,500 PSI

- CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE AND ACI 117 SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, EXCEPT AS OTHERWISE NOTED.
- CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT JOINT LOCATION PLAN FOR APPROVAL.
- CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS AND ENGINEER APPROVAL.
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS PRIOR TO PLACING ADJACENT CONCRETE BY WATER BLASTING OR OTHER METHOD APPROVED BY THE ENGINEER.
- COORDINATE PLACEMENT OF OPENINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT, INCLUDING COORDINATION WITH OTHER DISCIPLINE DRAWINGS.
- PLACE NO UNCOATED ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE INTO THE CONCRETE. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH AN APPROVED METHACRYLATE OR BITUMASTIC COATING.
- CONTINUOUS WATERSTOP SHALL BE INSTALLED IN CONCRETE AND CONSTRUCTION JOINTS EXCEPT WHERE NOTED OTHERWISE.

- PRIOR TO PLACING NEW CONCRETE AGAINST EXISTING CONCRETE, ROUGHEN THE SURFACE OF THE EXISTING CONCRETE PER ACI 318 AND PROVIDE A MINIMUM OF 1/4" SURFACE AMPLITUDE ROUGHNESS.
- AVOID DAMAGE TO EXISTING REINFORCEMENT WHEN DRILLING FOR NEW REBAR DOWELS.
- ALL DAMAGE TO EXISTING CONCRETE STRUCTURES DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST USING A METHOD APPROVED BY THE ENGINEER.

**CONCRETE REINFORCING:**

- MATERIALS FOR REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING:

REINFORCEMENT TYPE	MATERIAL STANDARD
TYPICAL (UNLESS NOTED OTHERWISE)	ASTM A615, GRADE 60

- FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH CRSI MANUAL OF STANDARD PRACTICE [MSP-1] AND ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE.
- CLEAR COVER FOR REINFORCEMENT BARS, UNLESS NOTED OTHERWISE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

REINFORCEMENT USE	CLEAR COVER
UNFORMED SURFACES IN CONTACT WITH FOUNDATION	4 INCHES
FORMED AND SCREEDED SURFACES GREATER THAN OR EQUAL TO 24" THICK	4 INCHES
FORMED AND SCREEDED SURFACES GREATER THAN 12" AND LESS THAN 24" THICK	3 INCHES
ALL OTHER CONDITIONS	2 INCHES

- 90 DEGREE BENDS SHALL BE ACI 318 STANDARD HOOKS UNLESS NOTED OTHERWISE. FIELD BENDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE.
- LIFTING REINFORCEMENT OFF THE GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
- CARRIER ("BURY") BARS ARE NOT PERMITTED IN BOTTOM MATS OF REINFORCEMENT IN ELEVATED SLABS OR TOP MATS IN ELEVATED SLABS LESS THAN 12 INCHES THICK. ADDITIONAL REINFORCEMENT SHALL BE ADDED TO REPLACE ANY REINFORCEMENT USED AS CARRIER BARS.
- WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER.

**STRUCTURAL STEEL AND METAL FABRICATION:**

- STEEL TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF PAINT, OIL, OR DIRT.

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: 1 28 26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



WARNING  
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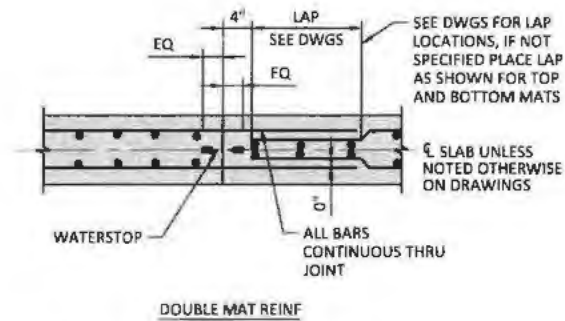
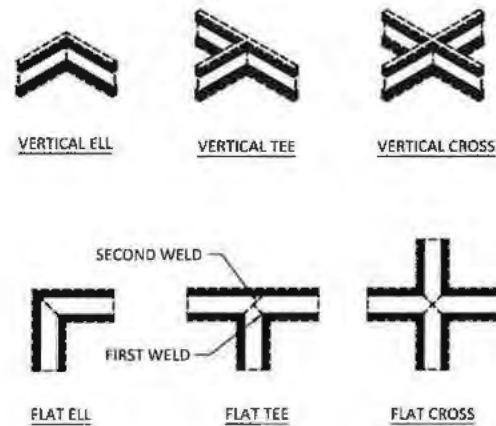


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

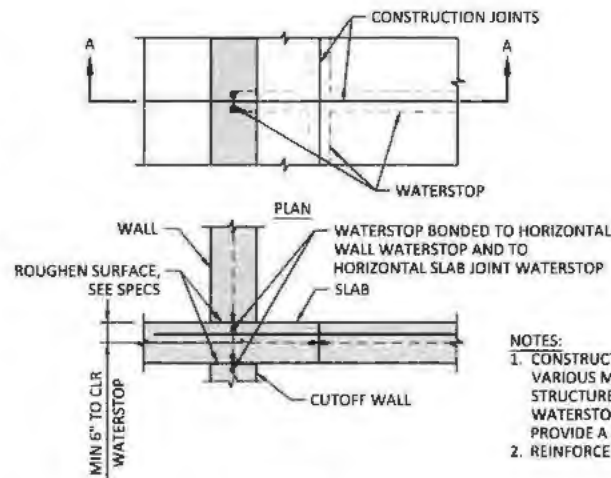
GENERAL STRUCTURAL NOTES

DESIGNED: T. MAGILL  
DRAWN: C. GERBER  
CHECKED: M. MERKLEIN  
PROJECT DATE: 12/19/25

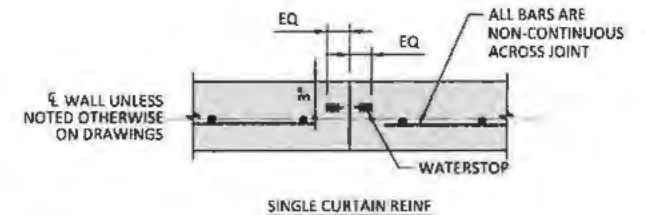
DRAWING  
GS001



NOTES:  
 1. STAGGER SPLICES UNLESS NOTED OTHERWISE.  
 2. SEE DRAWINGS FOR LAYOUT, SIZE, SPACING OF REINFORCEMENT.



NOTES:  
 1. CONSTRUCTION JOINTS PASSING THROUGH VARIOUS MEMBERS OF A WATER RETAINING STRUCTURE SHALL BE SEALED WITH WATERSTOPS BONDED TOGETHER, SO AS TO PROVIDE A CONTINUOUS WATERTIGHT JOINT.  
 2. REINFORCEMENT REQUIRED, SEE DRAWINGS.



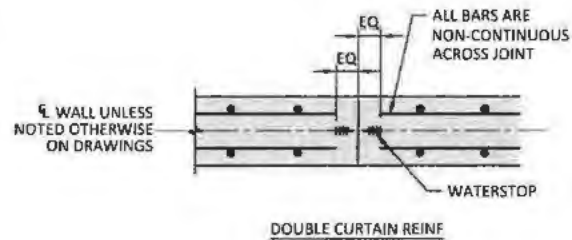
NOTES:  
 1. SPACING BETWEEN JOINTS SHALL BE 20' MAXIMUM, UNLESS OTHERWISE APPROVED.  
 2. PLACE WATERSTOP ON WATER SIDE OF WALL.

S108 PREFABRICATED WATERSTOP JOINTS  
 SCALE: NTS

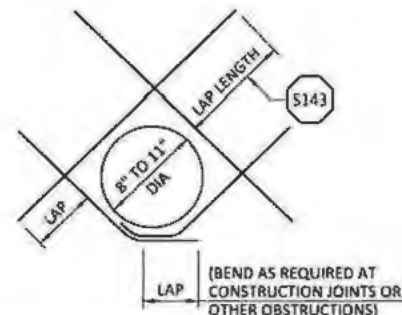
S112 CONSTRUCTION JOINT (SLAB)  
 SCALE: NTS

S118 CONSTRUCTION JOINT (WALL TO SLAB)  
 SCALE: NTS

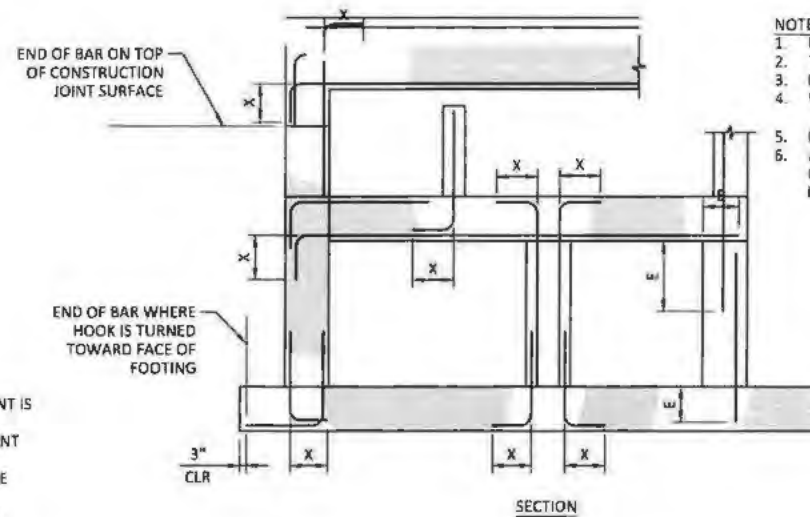
S121 CONTRACTION JOINT (WALL VERTICAL)  
 SCALE: NTS



NOTES:  
 1. SEE DRAWINGS FOR LAYOUT, SIZE, SPACING OF REINFORCEMENT.  
 2. SPACING BETWEEN JOINTS SHALL BE 20' MAXIMUM UNLESS OTHERWISE APPROVED.



NOTES:  
 1. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING.  
 2. DIAGONAL BARS TO BE PLACED:  
 A. AT CENTERLINE OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.  
 B. AT EACH FACE OF WALL OR SLAB WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.  
 3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT.  
 4. THIS DETAIL TO BE USED WHEN CALLED FOR ON THE DRAWINGS OR WHEN NO OTHER DETAIL IS SPECIFIED.



NOTES:  
 1. USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE.  
 2. THE TABLES SHOWN ARE FOR  $f'c=4500\text{psi}$ ,  $f_y=60,000\text{psi}$ , 1.5" MIN CONCRETE COVER AND 3" MIN BAR SPACING.  
 3. MULTIPLY THE LAP AND E SHOWN IN THESE TABLES BY 1.5 FOR EPOXY COATED REINFORCING.  
 4. WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF:  
 EMBEDMENT LENGTH OF LARGER BAR LAP OR LENGTH OF SMALLER BAR.  
 5. UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF #11 AND LARGER BARS.  
 6. ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH E INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK.

BAR SIZE	LENGTH (*)		
	HOOK X	LAP	EMBEDMENT E
#3	6"	18" (23")	14" (18")
#4	8"	24" (31")	18" (24")
#5	10"	30" (38")	23" (30")
#6	12"	35" (46")	27" (35")
#7	14"	51" (67")	40" (51")
#8	16"	59" (76")	45" (59")
#9	19"	66" (86")	51" (66")
#10	22"	74" (96")	57" (74")
#11	24"	82" (107")	64" (82")

\* USE LENGTH IN PARENTHESIS FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE OF FRESH CONCRETE UNDERNEATH

S123 CONTRACTION JOINT (WALL VERTICAL)  
 SCALE: NTS

S142 DIAGONAL REINF AT CIRCULAR OPENINGS  
 SCALE: NTS

S143 STANDARD 90° BAR HOOKS, EMBEDMENT LENGTHS AND LAP LENGTHS  
 SCALE: NTS

IDAHO DEPARTMENT WATER RESOURCES  
 DAM SAFETY PROGRAM

Reviewed: *[Signature]*  
 Approved: *[Signature]*

12 28 26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



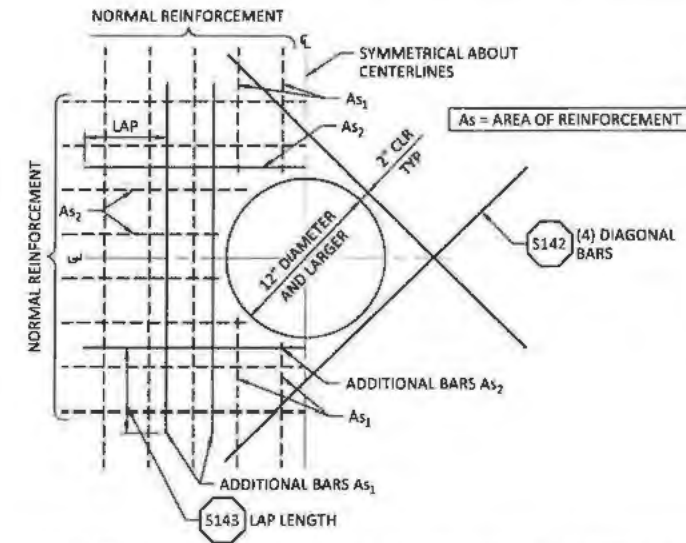
WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 STANDARD STRUCTURAL DETAILS 1

DESIGNED T. MAGILL  
 DRAWN C. GERBER  
 CHECKED M. MERKLEIN  
 PROJECT DATE 12/19/25

DRAWING  
 GS002



- NOTES:
- CUT NORMAL REINFORCEMENT AT OPENINGS:  $A_{s1}$  AND  $A_{s2} = \frac{1}{2}$  AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING.
  - ADDITIONAL BARS  $A_{s1}$  AND  $A_{s2}$  TO BE PLACED:
    - AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED.
    - AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED.
  - INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF  $2 \times$  WALL/SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS.
  - THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS.
  - WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENINGS, ADDITIONAL BARS ON THAT SIDE MAY BE OMITTED.

S144 ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS (12" DIA OR LARGER)  
SCALE: NTS

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed: [Signature]  
 Approved: [Signature]  
 Date of Approval: 1 28 26

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



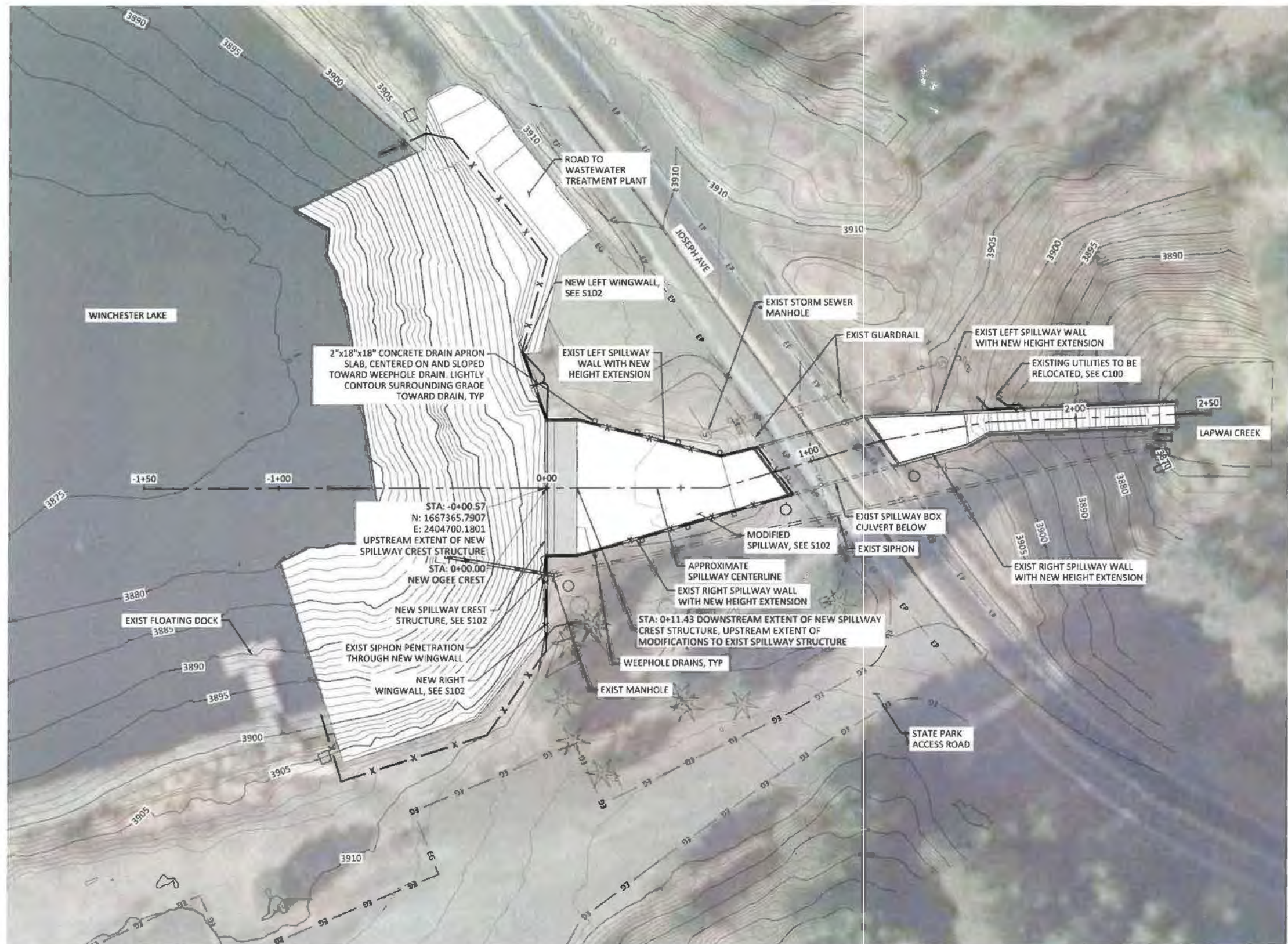
WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
 WINCHESTER DAM REHABILITATION  
 STANDARD STRUCTURAL DETAILS 2

DESIGNED T. MAGILL  
 DRAWN C. GERBER  
 CHECKED M. MERKLEIN  
 PROJECT DATE 12/19/25

DRAWING  
**GS003**



OVERALL SITE STRUCTURAL KEY PLAN

SCALE: 1" = 20'



IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: 1 28 26

REV	DATE	MM	BY	DESCRIPTION
0	12/19/25	MM		ISSUED FOR CONSTRUCTION



WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

STRUCTURAL  
OVERALL SITE PLAN

DESIGNED: T. MAGILL  
DRAWN: C. GERBER  
CHECKED: M. MERKLEIN  
PROJECT DATE: 12/19/25

DRAWING  
S101

C:\Users\ChloeGerber\OneDrive\Documents\McMillen Inc\25-005 - Winchester Dam Rehab\Project Files\Drawings\25-005\_S101\_05-STR.dwg

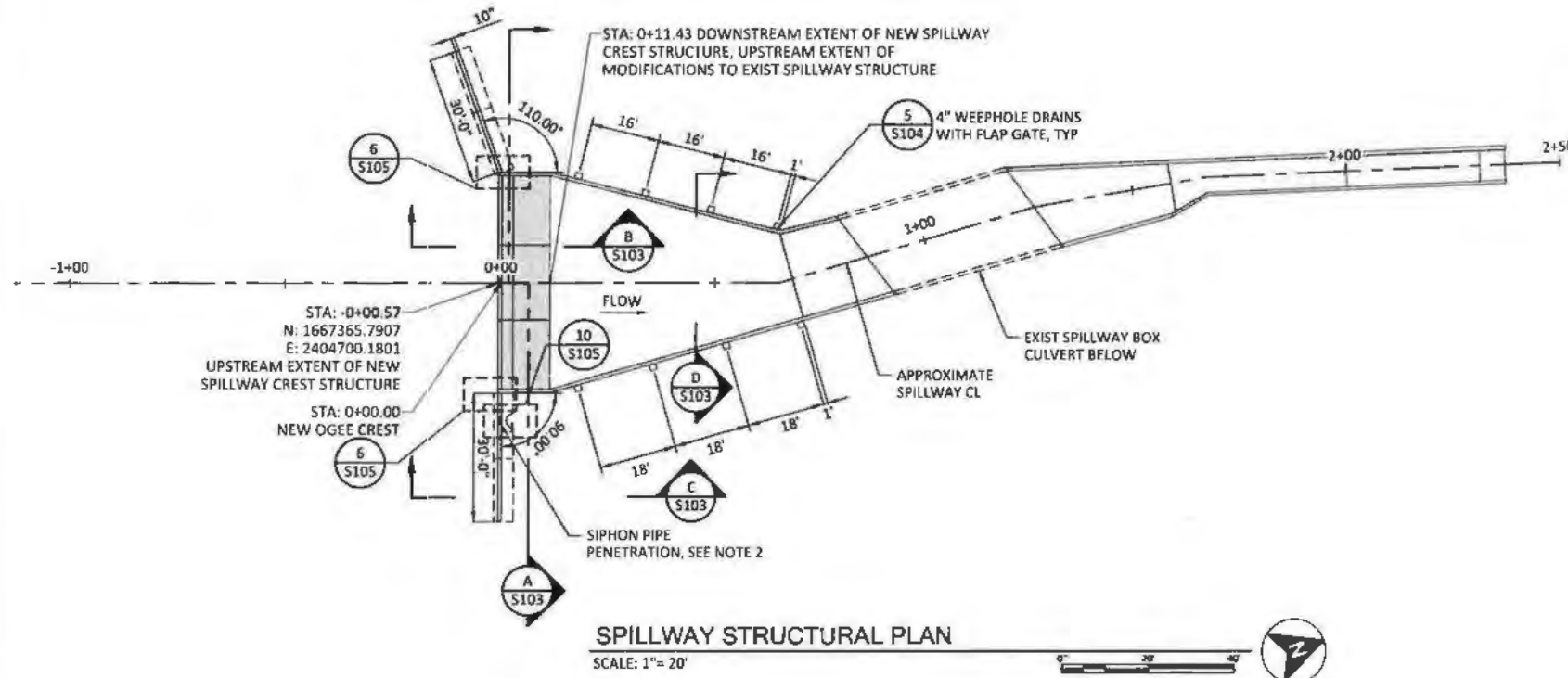
Reviewed *[Signature]*

Approved *[Signature]*

Date of Approval 1 28 26

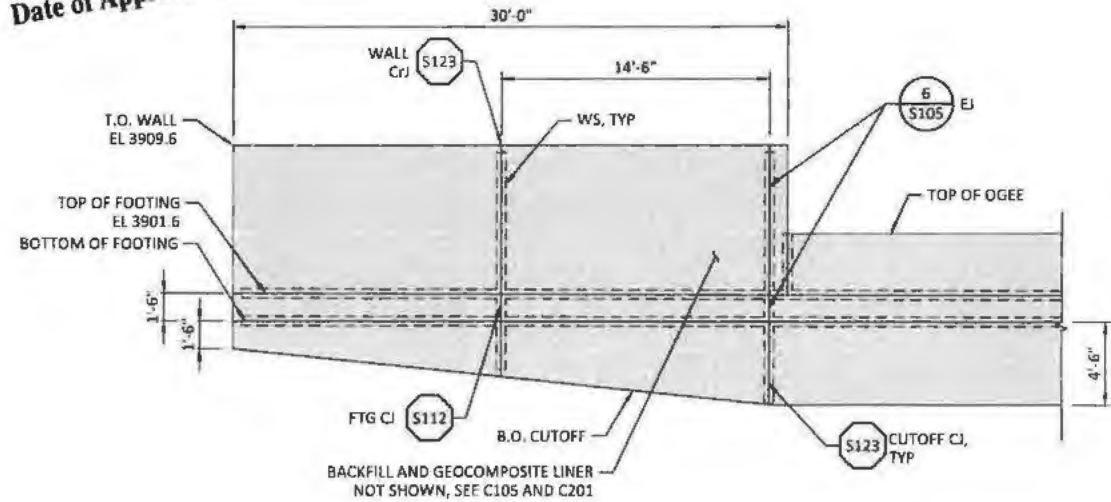
SHEET NOTES:

- DO NOT ADD BACKFILL TO MODIFIED SPILLWAY WALLS ABOVE THE TOP OF EXISTING SPILLWAY WALL.
- AT PIPE PENETRATION, PROVIDE LINK-SEAL MODEL S-316, SIZE LS-410 BY GARLOCK, OR AN APPROVED EQUAL INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.



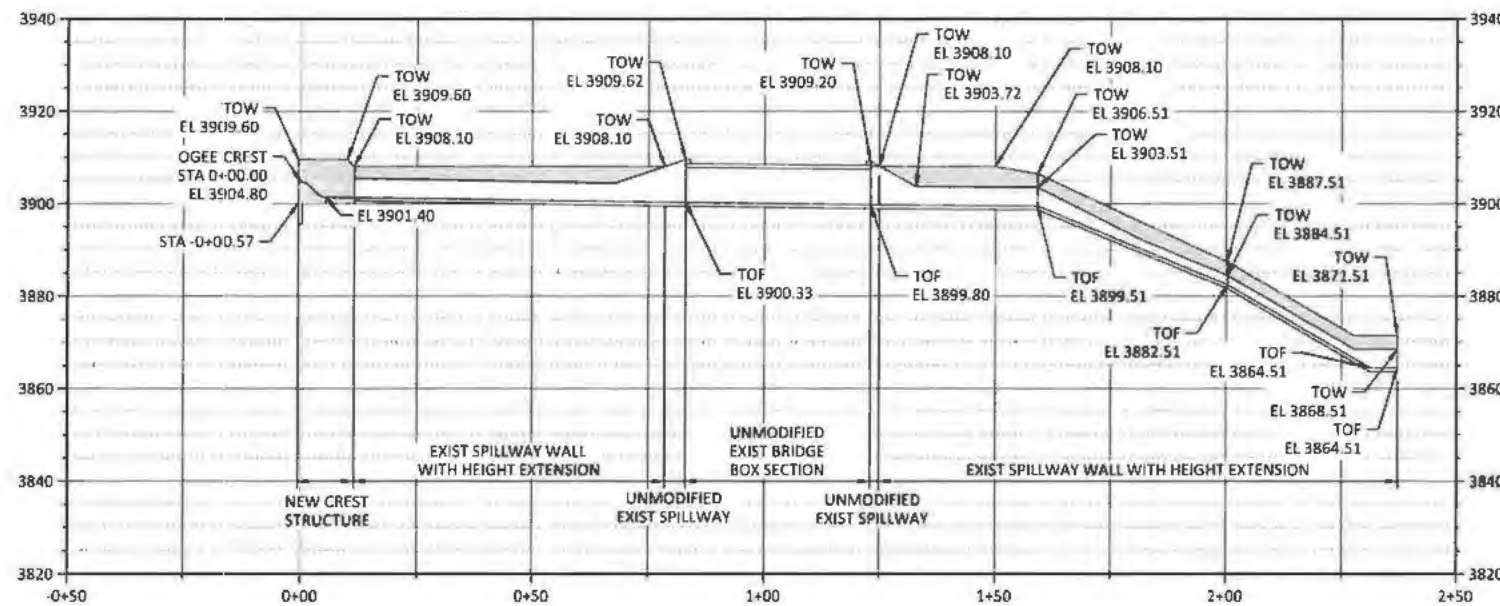
SPILLWAY STRUCTURAL PLAN

SCALE: 1"=20'



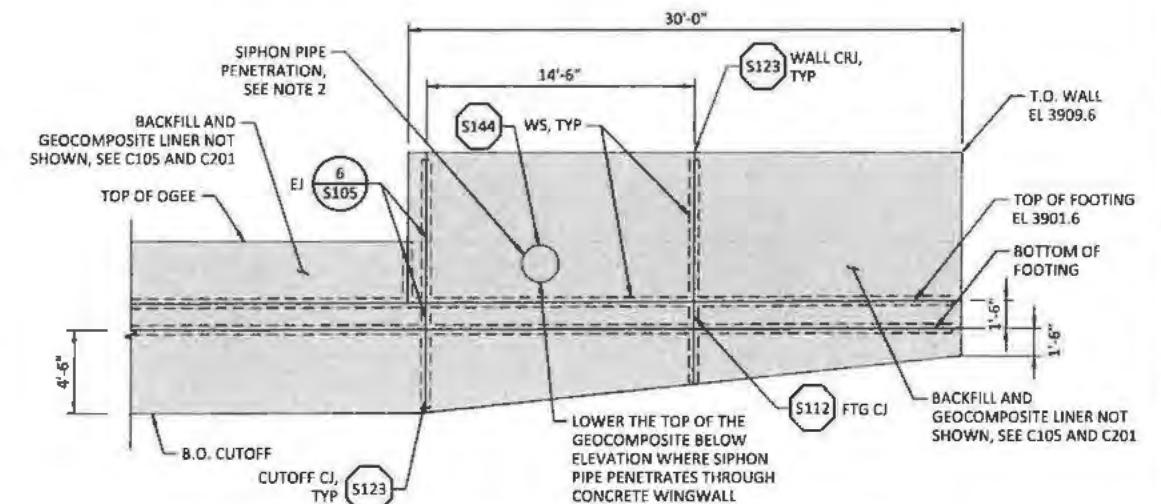
PROFILE ALONG LEFT WING WALL

SCALE: 1"=5'



SPILLWAY STRUCTURAL PROFILE

SCALE: 1"=20'



PROFILE ALONG RIGHT WING WALL

SCALE: 1"=5'

REV	DATE	MM	BY	DESCRIPTION
0	12/19/25	MM	MM	ISSUED FOR CONSTRUCTION



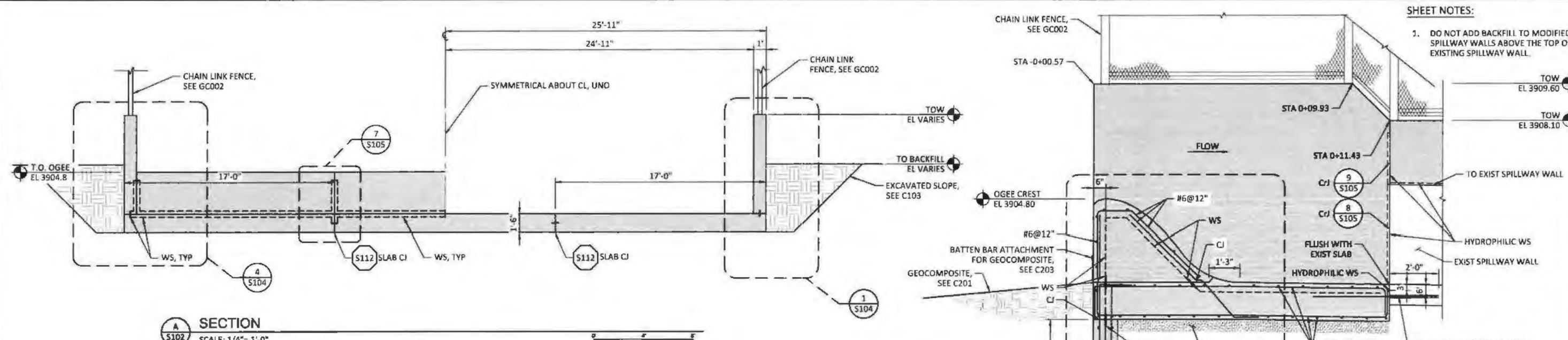
WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



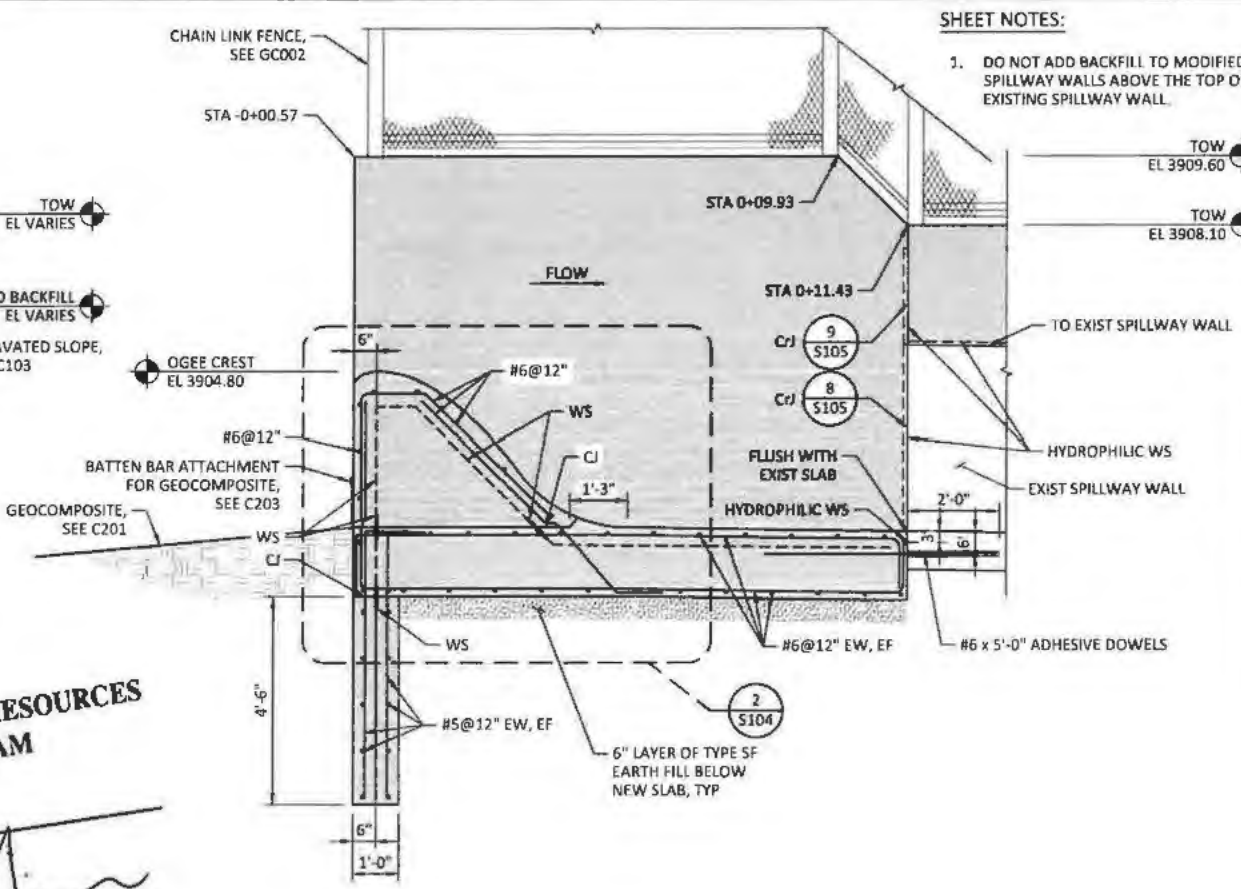
IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
SPILLWAY  
STRUCTURAL PLAN AND PROFILES

DESIGNED T. MAGILL  
DRAWN C. GERBER  
CHECKED M. MERKLEIN  
PROJECT DATE 12/19/25

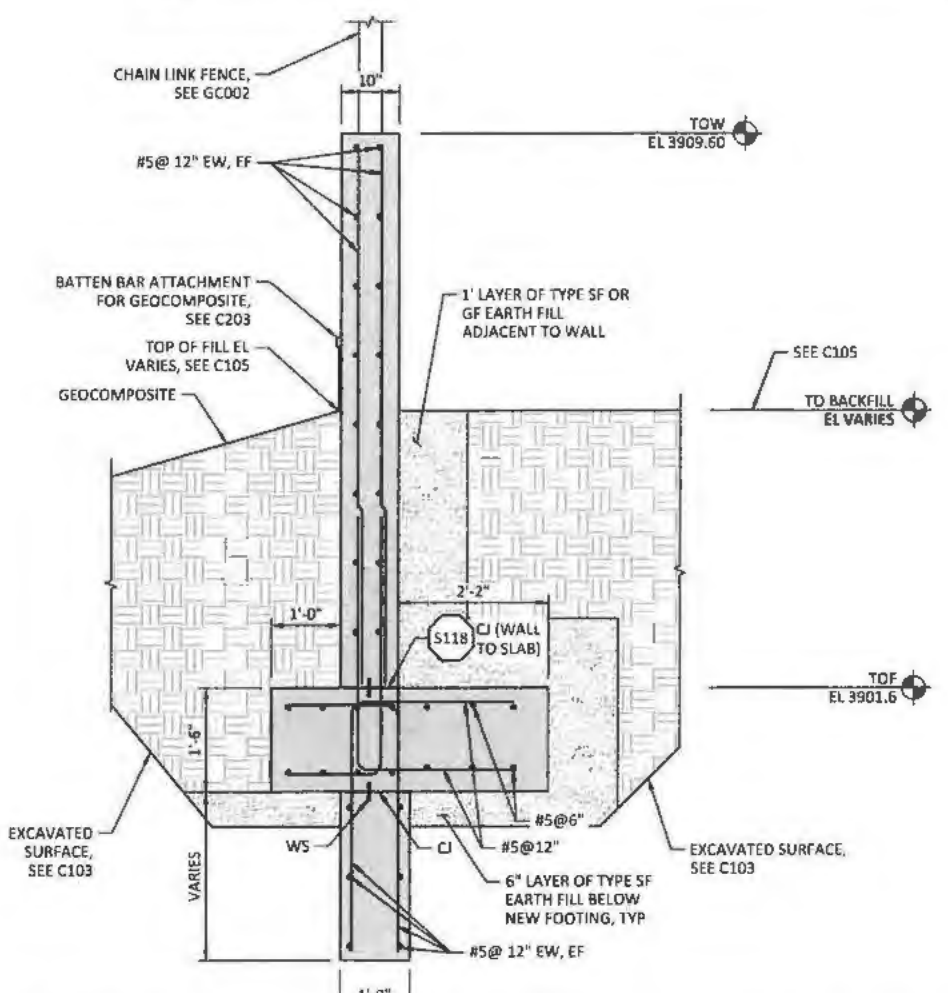
DRAWING  
S102



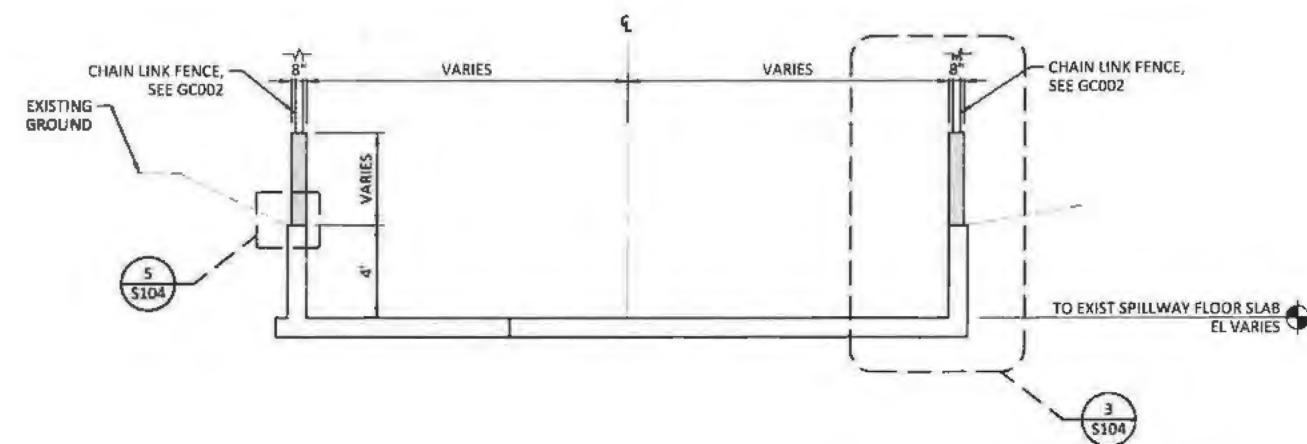
**A SECTION**  
S102 SCALE: 1/4" = 1'-0"



**B SECTION**  
S102 SCALE: 1/2" = 1'-0"



**C SECTION**  
S102 SCALE: 3/4" = 1'-0"



**D SECTION**  
S102 SCALE: 1/4" = 1'-0"

**SHEET NOTES:**  
1. DO NOT ADD BACKFILL TO MODIFIED SPILLWAY WALLS ABOVE THE TOP OF EXISTING SPILLWAY WALL.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**  
Reviewed *[Signature]*  
Approved *[Signature]*  
Date of Approval **1 26 26**

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

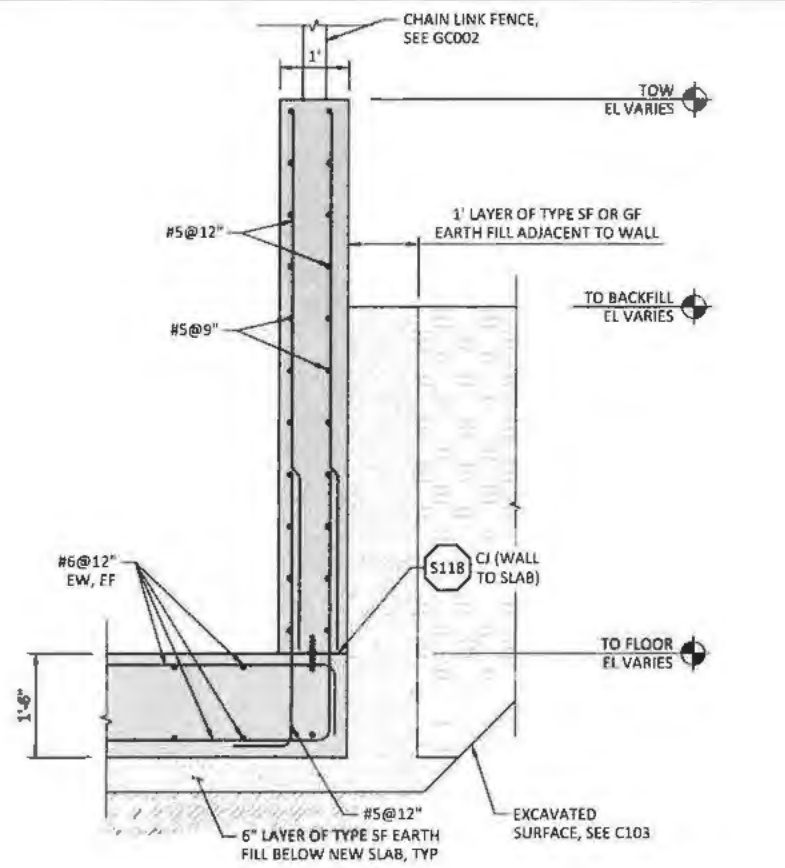


IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION  
SPILLWAY STRUCTURAL SECTIONS

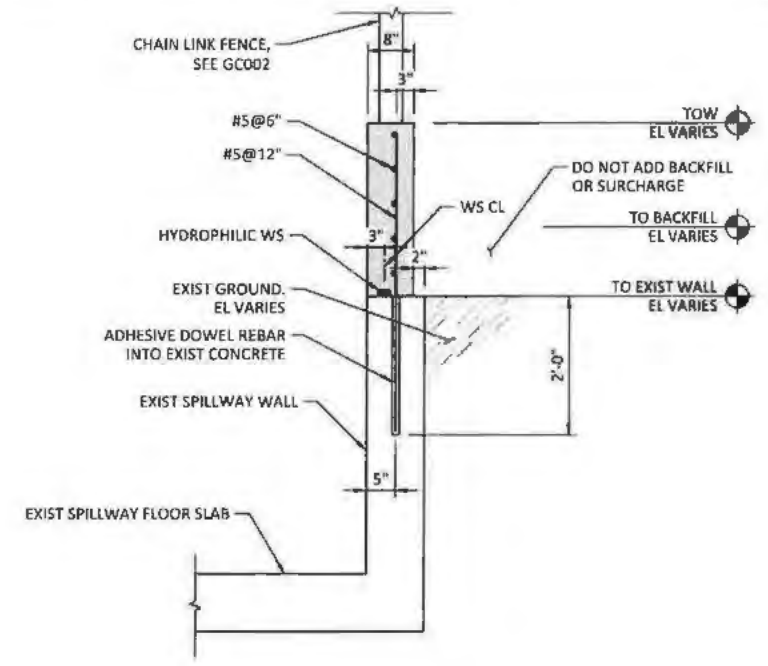
DESIGNED T. MAGILL  
DRAWN C. GERBER  
CHECKED M. MERKLEIN  
PROJECT DATE 12/19/25

DRAWING  
**S103**

C:\Users\ChloeGerber\OneDrive\Documents\Winchester Dam Rehab\Project Files\Drawings\25-005\_S103\_05-STR.dwg

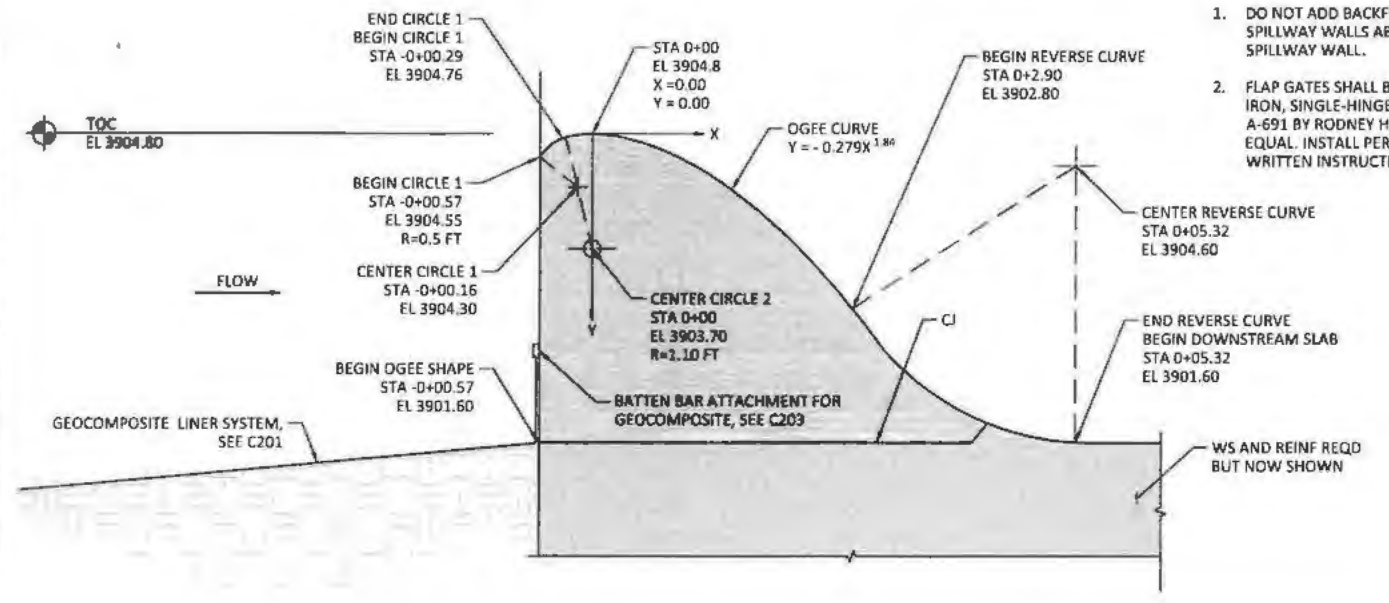


1  
S103  
DETAIL  
SCALE: 3/4" = 1'-0"

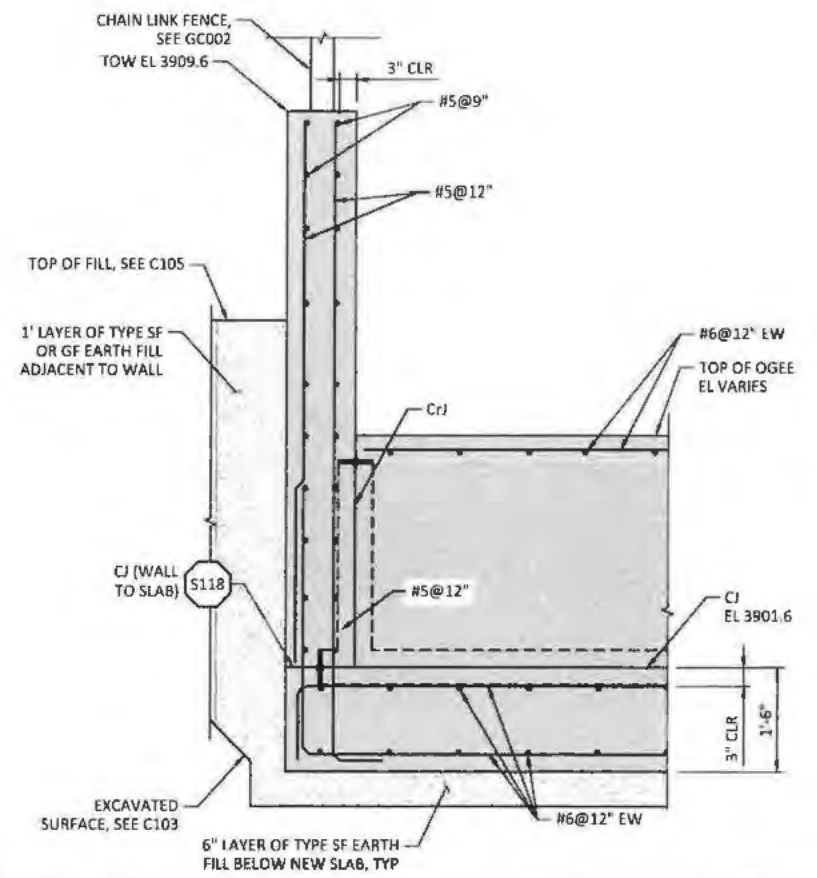


3  
S103  
DETAIL  
SCALE: 3/4" = 1'-0"

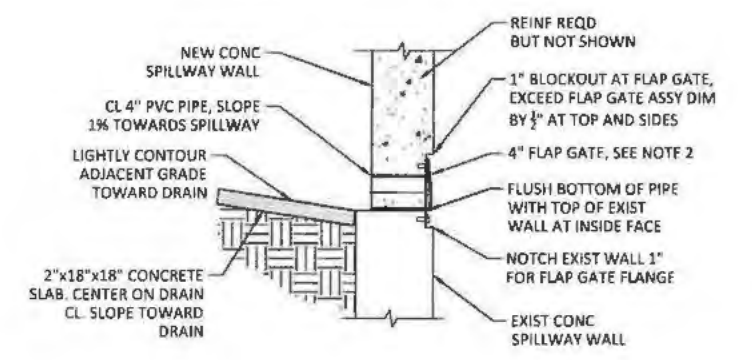
DOWNSTREAM OGEE CURVE POINTS	
X	EL
0' - 0"	3904' - 9 5/8"
0' - 1 5/8"	3904' - 9 1/2"
0' - 3 3/8"	3904' - 8 1/4"
0' - 5"	3904' - 8 7/8"
0' - 6 3/4"	3904' - 8 1/2"
0' - 8 3/8"	3904' - 7 7/8"
0' - 10 1/8"	3904' - 7 1/8"
0' - 11 3/4"	3904' - 6 3/8"
1' - 1 1/2"	3904' - 5 1/2"
1' - 3 1/8"	3904' - 4 1/2"
1' - 4 7/8"	3904' - 3 3/8"
1' - 6 1/2"	3904' - 2 1/8"
1' - 8 1/4"	3904' - 0 7/8"
1' - 9 7/8"	3903' - 11 1/2"
1' - 11 5/8"	3903' - 10"
2' - 1 1/4"	3903' - 8 3/8"
2' - 2 7/8"	3903' - 6 3/4"
2' - 4 5/8"	3903' - 5"
2' - 6 1/4"	3903' - 3 1/8"
2' - 8"	3903' - 1 1/4"
2' - 9 5/8"	3902' - 11 1/4"
2' - 11 3/8"	3902' - 9 1/8"



2  
S103  
DETAIL  
SCALE: 1" = 1'-0"



4  
S103  
DETAIL  
SCALE: 3/4" = 1'-0"



5  
S103  
DETAIL  
SCALE: 1" = 1'-0"

- SHEET NOTES:**
- DO NOT ADD BACKFILL TO MODIFIED SPILLWAY WALLS ABOVE THE TOP OF EXISTING SPILLWAY WALL.
  - FLAP GATES SHALL BE WALL-MOUNTED, CAST IRON, SINGLE-HINGE, DOUBLE-PIVOT, SERIES A-691 BY RODNEY HUNT, OR AN APPROVED EQUAL. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

**IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM**

Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: **1 28 26**

REV	DATE	MM	BY	DESCRIPTION
0	12/19/25	MM		ISSUED FOR CONSTRUCTION



**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

SPILLWAY STRUCTURAL  
DETAILS 1

DESIGNED: T. MAGILL  
DRAWN: C. GERBER  
CHECKED: M. MERKLEIN  
PROJECT DATE: 12/19/25

DRAWING  
**S104**

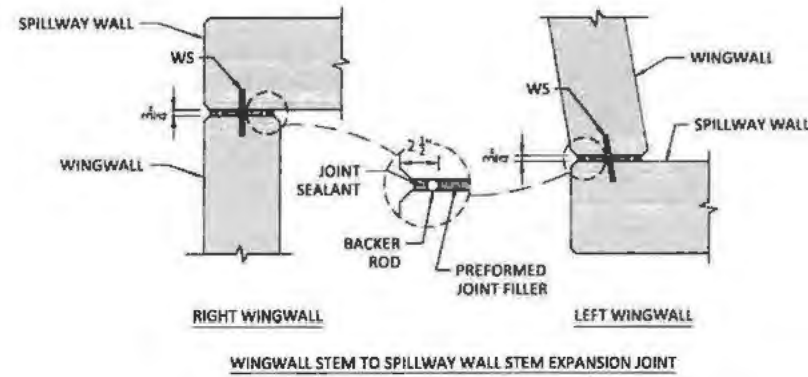
C:\Users\ChloeGerber\OneDrive\Documents\Projects\Winchester Dam Rehab\Drawings\S104\_S104\_05-STR.dwg

IDAHO DEPARTMENT WATER RESOURCES  
DAM SAFETY PROGRAM

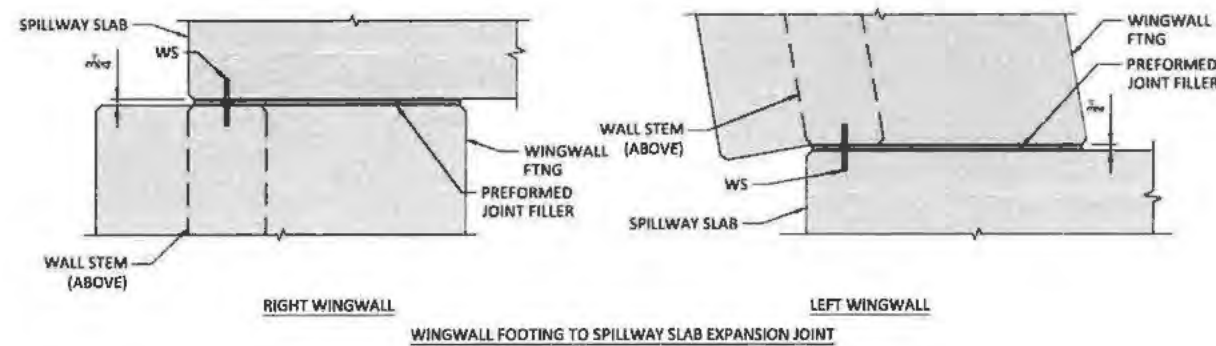
Reviewed: *[Signature]*

Approved: *[Signature]*

Date of Approval: **1 28 26**

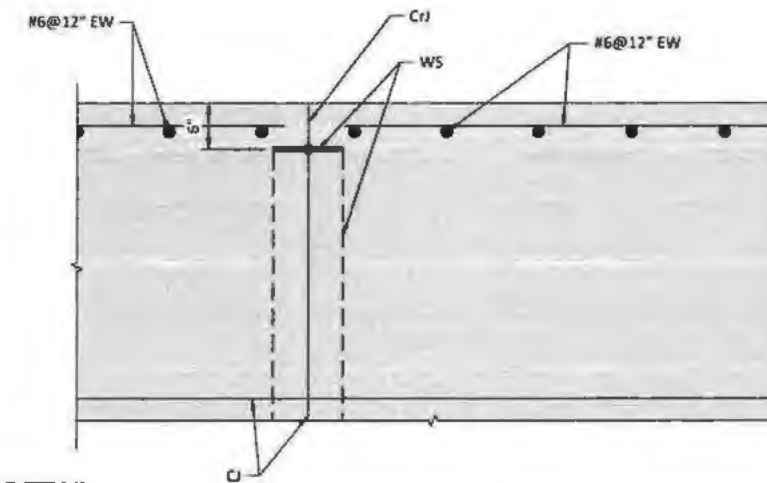


WINGWALL STEM TO SPILLWAY WALL STEM EXPANSION JOINT



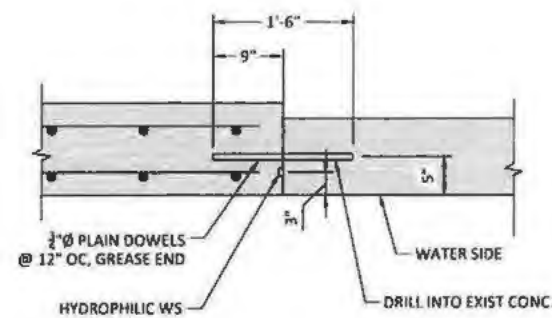
WINGWALL FOOTING TO SPILLWAY SLAB EXPANSION JOINT

DETAIL NOTES:  
1. REINFORCEMENT IS NOT CONTINUOUS ACROSS JOINT.

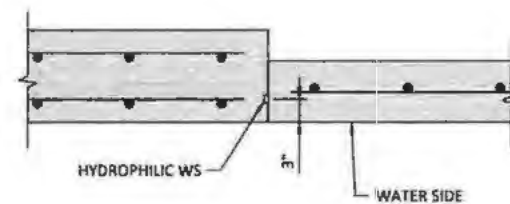


7  
S103  
DETAIL  
SCALE: NTS

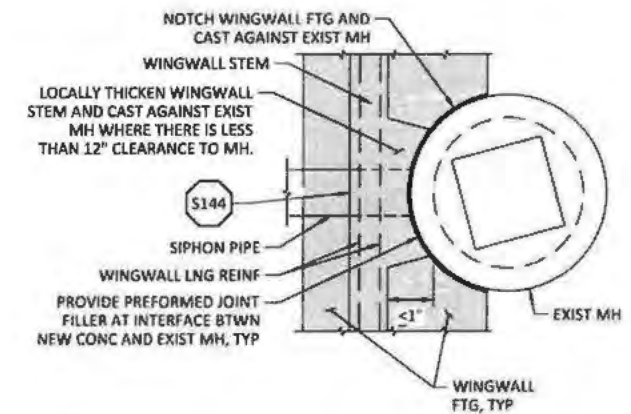
6  
S102  
DETAIL  
SCALE: NTS



8  
S103  
DETAIL  
SCALE: NTS



9  
S103  
DETAIL  
SCALE: NTS



10  
S102  
DETAIL  
SCALE: NTS

REV	DATE	BY	DESCRIPTION
0	12/19/25	MM	ISSUED FOR CONSTRUCTION



WARNING  
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IDAHO DEPARTMENT OF FISH AND GAME  
WINCHESTER DAM REHABILITATION

SPILLWAY STRUCTURAL  
DETAILS 2

DESIGNED: T. MAGILL  
DRAWN: C. GERBER  
CHECKED: M. MERKLEIN  
PROJECT DATE: 12/19/25

DRAWING  
S105

# Appendix B



**PROJECT:** Winchester Dam Rehabilitation  
**SHEET:** 100% Design - Engineer's Estimate  
**DATE:** 8-Dec-2025

BidItem	Bid Description	QTY	UNIT	Cost	Subtotal
<b>1000</b>	<b>GENERAL CONDITIONS</b>				<b>\$ 400,000</b>
1050	General Requirements	1	LS	\$300,000	
1075	Mobilization	1	LS	\$100,000	
<b>1200</b>	<b>EXISTING CONDITIONS</b>				<b>\$ 61,000</b>
1220	Demo	1	LS	\$51,200	
1230	Potholing	1	LS	\$9,800	
<b>1300</b>	<b>CONCRETE</b>				<b>\$ 334,700</b>
1320	Spillway Slab & Ogee	70	CY	\$107,100	
1330	Walls	120	CY	\$227,600	
<b>1500</b>	<b>METALS</b>				<b>\$ 8,300</b>
1510	Weirs	1	LS	\$8,300	
<b>3100</b>	<b>EARTHWORK</b>				<b>\$ 1,446,800</b>
3105	SWPPP	1	LS	\$14,100	
3110	Control of Water	1	LS	\$452,100	
3120	Structural Excavation	500	CY	\$20,700	
3125	Excavation - Liner Prep	260	CY	\$12,600	
3130	Structural Fill	225	CY	\$23,800	
3140	Common Fill	275	CY	\$7,200	
3145	Access Road - Water Treatment Plant	290	CY	\$15,300	
3150	Trenching	140	CY	\$7,800	
3160	Bentonite Fill	160	CY	\$48,200	
3170	Piezometer	3	LS	\$40,000	
3180	Geomembrane Liner <sup>5</sup>	17,000	SF	\$805,000	
<b>3200</b>	<b>EXTERIOR IMPROVEMENTS</b>				<b>\$ 145,900</b>
3210	Fencing	520	LF	\$59,500	
3220	Site Grading	1	LS	\$17,100	
3230	Debris Boom Anchors	1	LS	\$13,600	
3240	Relocate Existing Dock	1	LS	\$20,100	
3250	Downstream Outfall Piping Extension	1	LS	\$13,100	
3260	Relocate Siphon	1	LS	\$22,500	
<b>SUBTOTAL - DIRECT COSTS</b>					<b>\$ 2,396,700</b>
	<b>OH&amp;P</b>	<b>15%</b>			<b>\$360,000</b>
	<b>Contingency</b>	<b>15%</b>			<b>\$360,000</b>
<b>TOTAL - MEDIAN CONSTRUCTION COST</b>					<b>\$ 3,116,700</b>
<b>CLASS 1 ESTIMATE ACCURACY RANGE:</b>		<b>+15%</b>			<b>\$ 3,600,000</b>
		<b>-10%</b>			<b>\$ 2,800,000</b>

- 1) Class 1 estimate based on December 2025 100% design drawings.
- 2) Costs are in December 2025 dollars. No escalation is added.
- 3) The OPCC estimate includes only construction costs. (No permitting, design costs, or construction management costs are included).
- 4) Pricing assumes the project will be competitively bid with 3 to 5 contractors.
- 5) This is based on most recent CARPI estimate. McMillen is requesting verification of cost increase. Note that specifications will permit or equal systems.
- 6) Dewatering cost assumes siphon dewater the top 12ft of lake elevation.
- 7) Liner costs include \$10k in tariffs. Actual tariffs for liner may vary.



40.0000      0.0250      40.0000      245.2605      44.0000      60.2105      0.0500

**Activity: 020001      Locate Utilities / Pothole      (Unreviewed)      Quantity: 1.00      Unit: LS**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,760.00	648.42	2,408.42	402.00	0.00	0.00	7,000.00	0.00	0.00	0.00	9,810.42
Total	1,760.00	648.42	2,408.42	402.00	0.00	0.00	7,000.00	0.00	0.00	0.00	9,810.42

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
2,810.4200	20.0000	0.0500	140.5210	2.0000	0.5000	2.0000	4,905.2100

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	0.0250	40.0000	60.2105	1,760.0000

Calendar: 510      50 HR WK (5 DAYS@10 HR/DAY)      Hrs/Shift: 10      WC:      Code not found.

Crew: LAB2 2 MAN LABOR CREW      Prod: CH 20      Eff: 100.00      Crew Hrs: 20.00      Labor Pcs: 2.00      Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 SUB	Pothole Subcontractor	1.00	2.00	DAYS	3,500.00	100.000	3,500.00	7,000.00
8PKF350	MCM Ford F-350-Excavation	1.00	20.00	HR	20.10	100.000	20.10	402.00
LABRA	Laborer General	2.00	40.00	MH	40.00	110.000	60.21	2,408.42

**Biditem - Parent**

**CONCRETE**

**1300**

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	111,032.19	41,184.39	152,216.58	10,788.92	60,420.00	6,837.00	104,500.00	0.00	0.00	0.00	334,762.50
Total	111,032.19	41,184.39	152,216.58	10,788.92	60,420.00	6,837.00	104,500.00	0.00	0.00	0.00	334,762.50

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
2,370.5000	0.0004	2,370.5000	141.2202	46.8391	64.2129	0.0000

**Biditem**

**Spillway Slab**

**1310**

Takeoff Qty: 40.000 CY

Bid Qty: 40.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	256.67	99.20	355.87	34.25	318.00	79.50	550.00	0.00	0.00	0.00	1,337.62
Total	10,266.69	3,967.94	14,234.63	1,370.02	12,720.00	3,180.00	22,000.00	0.00	0.00	0.00	53,504.65

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
225.0000	0.1778	5.6250	237.7984	45.6297	63.2650	0.5853

**Activity: 030740      Slab on Grade Form & Strip      (Unreviewed)      Quantity: 200.00      Unit: SF**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	23.83	8.45	32.28	3.34	0.00	15.90	0.00	0.00	0.00	0.00	51.52
Total	4,766.69	1,689.46	6,456.15	668.27	0.00	3,180.00	0.00	0.00	0.00	0.00	10,304.42

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
35.6221	0.1667	6.0000	213.7328	3.3333	60.0001	0.0167	3,091.3291

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
100.0000	2.0000	0.5000	64.5615	23.8335

Calendar: 510      50 HR WK (5 DAYS@10 HR/DAY)      Hrs/Shift: 10      WC:      Code not found.

Crew: C4 CONCRETE FORMING CREW      Prod: MU 0.5      Eff: 100.00      Crew Hrs: 33.33      Labor Pcs: 3.00      Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3 FORMWORK	Formwork	1.00	200.00	SF	15.00	106.000	15.90	3,180.00
8PKF550	MCM Ford F-550-Concrete	1.00	33.33	HR	20.05	100.000	20.05	668.27

CARPE	Carpenter	2.00	66.67	MH	45.00	110.000	66.74	4,449.34
LABRA	Laborer General	1.00	33.33	MH	40.00	110.000	60.21	2,006.81

**Activity: 030745 Slab on Grade Rebar (Unreviewed) Quantity: 8800.00 Unit: LBS**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	2.50
Total	0.00	0.00	0.00	0.00	0.00	0.00	22,000.00	0.00	0.00	0.00	22,000.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.0000	0.0000	4,000,000.0000	0.0000	0.0002	40,000,000.0000	0.0000	100,000,000.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C5 REBAR CREW Prod:UM 800000 Eff:100.00 Crew Hrs:0.00 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 REBAR	Rebar	1.00	8,800.00	LBS	2.50	100.000	2.50	22,000.00
8PKF550	MCM Ford F-550-Concrete	1.00	0.00	HR	20.05	100.000	0.00	0.00
CEF	Concrete Foreman	1.00	0.00	MH	40.00	110.000	0.00	0.00
IWREINF	Ironworker Reinforcing Steel	2.00	0.00	MH	45.00	110.000	0.00	0.00
LABRA	Laborer General	2.00	0.00	MH	40.00	110.000	0.00	0.00

**Activity: 030750 Slab on Grade Place (Unreviewed) Quantity: 40.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	44.00	17.67	61.67	3.34	318.00	0.00	0.00	0.00	0.00	0.00	383.02
Total	1,760.00	706.95	2,466.95	133.73	12,720.00	0.00	0.00	0.00	0.00	0.00	15,320.68

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
65.0170	0.1667	6.0000	390.1000	0.6667	59.9997	0.0167	22,980.9051

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	1.0000	1.0000	61.6738	44.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C2 (Mod) CONCRETE PLACING CREW Prod:MU 1 Eff:100.00 Crew Hrs:6.67 Labor Pcs:6.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 READYMIX	Readymix	1.00	40.00	CY	300.00	106.000	318.00	12,720.00
8PKF550	MCM Ford F-550-Concrete	1.00	6.67	HR	20.05	100.000	20.05	133.73
CEF	Concrete Foreman	1.00	6.67	MH	40.00	110.000	63.16	421.25
CEFIN	Concrete Finisher	3.00	20.00	MH	40.00	110.000	62.16	1,243.10
LABRA	Laborer General	2.00	13.33	MH	40.00	110.000	60.21	802.60

**Activity: 030755 Slab on Grade Finish (Unreviewed) Quantity: 850.00 Unit: SF**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	4.40	1.85	6.25	0.67	0.00	0.00	0.00	0.00	0.00	0.00	6.92
Total	3,740.00	1,571.53	5,311.53	568.02	0.00	0.00	0.00	0.00	0.00	0.00	5,879.55

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
6.9171	0.0333	30.0002	207.5152	2.8333	300.0025	0.0033	2,075.1524

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
85.0000	10.0000	0.1000	62.4886	4.4000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C1 CONCRETE FINISHING CREW Prod:MU 0.1 Eff:100.00 Crew Hrs:28.33 Labor Pcs:3.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8PKF550	MCM Ford F-550-Concrete	1.00	28.33	HR	20.05	100.000	20.05	568.02
CEF	Concrete Foreman	1.00	28.33	MH	40.00	110.000	63.16	1,789.19
CEFIN	Concrete Finisher	2.00	56.67	MH	40.00	110.000	62.16	3,522.34

**Biditem**

**Ogee**

**1320**

Takeoff Qty: 30.000 CY  
 Bid Qty: 30.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	523.42	201.10	724.51	72.96	318.00	121.90	550.00	0.00	0.00	0.00	1,787.38
Total	15,702.50	6,032.92	21,735.42	2,188.86	9,540.00	3,657.00	16,500.00	0.00	0.00	0.00	53,621.28

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	342.5000	0.0876	11.4167	156.5585	45.8467	63.4611	0.2748

**Activity: 030740 Slab on Grade Form & Strip (Unreviewed) Quantity: 230.00 Unit: SF**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	35.75	12.67	48.42	5.01	0.00	15.90	0.00	0.00	0.00	0.00	69.33
Total	8,222.50	2,914.32	11,136.82	1,152.88	0.00	3,657.00	0.00	0.00	0.00	0.00	15,946.70

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	53.4335	0.2500	4.0000	213.7339	5.7500	40.0000	0.0250	2,773.3391

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	172.5000	1.3333	0.7500	64.5613	35.7500

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C4 CONCRETE FORMING CREW Prod:MU 0.75 Eff: 100.00 Crew Hrs:57.50 Labor Pcs:3.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3 FORMWORK	Formwork	1.00	230.00	SF	15.00	106.000	15.90	3,657.00
8PKF550	MCM Ford F-550-Concrete	1.00	57.50	HR	20.05	100.000	20.05	1,152.88
CARPE	Carpenter	2.00	115.00	MH	45.00	110.000	66.74	7,674.72
LABRA	Laborer General	1.00	57.50	MH	40.00	110.000	60.21	3,462.10

**Activity: 030745 Slab on Grade Rebar (Unreviewed) Quantity: 6600.00 Unit: LBS**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	2.50
Total	0.00	0.00	0.00	0.00	0.00	0.00	16,500.00	0.00	0.00	0.00	16,500.00

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	0.0000	0.0000	3,000,000.0000	0.0000	0.0002	30,000,000.0000	0.0000	75,000,000.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C5 REBAR CREW Prod:UM 600000 Eff: 100.00 Crew Hrs:0.00 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 REBAR	Rebar	1.00	6,600.00	LBS	2.50	100.000	2.50	16,500.00
8PKF550	MCM Ford F-550-Concrete	1.00	0.00	HR	20.05	100.000	0.00	0.00
CEF	Concrete Foreman	1.00	0.00	MH	40.00	110.000	0.00	0.00
IWREINF	Ironworker Reinforcing Steel	2.00	0.00	MH	45.00	110.000	0.00	0.00
LABRA	Laborer General	2.00	0.00	MH	40.00	110.000	0.00	0.00

**Activity: 030750 Slab on Grade Place (Unreviewed) Quantity: 30.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	44.00	17.67	61.67	3.34	318.00	0.00	0.00	0.00	0.00	0.00	383.02
Total	1,320.00	530.21	1,850.21	100.25	9,540.00	0.00	0.00	0.00	0.00	0.00	11,490.46

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	65.0153	0.1667	6.0000	390.0920	0.5000	60.0000	0.0167	22,980.9200

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	30.0000	1.0000	1.0000	61.6737	44.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C2 (Mod) CONCRETE PLACING CREW Prod:MU 1 Eff: 100.00 Crew Hrs:5.00 Labor Pcs:6.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 READYMIX	Readymix	1.00	30.00	CY	300.00	106.000	318.00	9,540.00
8PKF550	MCM Ford F-550-Concrete	1.00	5.00	HR	20.05	100.000	20.05	100.25
CEF	Concrete Foreman	1.00	5.00	MH	40.00	110.000	63.16	315.78
CEFIN	Concrete Finisher	3.00	15.00	MH	40.00	110.000	62.16	932.33
LABRA	Laborer General	2.00	10.00	MH	40.00	110.000	60.21	602.10

Activity: 030755 Slab on Grade Finish (Unreviewed) Quantity: 700.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	8.80	3.70	12.50	1.34	0.00	0.00	0.00	0.00	0.00	0.00	13.83
Total	6,160.00	2,588.39	8,748.39	935.73	0.00	0.00	0.00	0.00	0.00	0.00	9,684.12

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
13.8345	0.0667	15.0000	207.5167	4.6667	149.9999	0.0067	2,075.1671

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
140.0000	5.0000	0.2000	62.4885	8.8000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C1 CONCRETE FINISHING CREW Prod:MU 0.2 Eff: 100.00 Crew Hrs:46.67 Labor Pcs:3.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8PKF550	MCM Ford F-550-Concrete	1.00	46.67	HR	20.05	100.000	20.05	935.73
CEF	Concrete Foreman	1.00	46.67	MH	40.00	110.000	63.16	2,947.45
CEFIN	Concrete Finisher	2.00	93.33	MH	40.00	110.000	62.16	5,800.94

**Biditem**

**1330**

**Walls**

Takeoff Qty: 120.000 CY

Bid Qty: 120.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	708.86	259.86	968.72	60.25	318.00	0.00	550.00	0.00	0.00	0.00	1,896.97
Total	85,063.00	31,183.53	116,246.53	7,230.04	38,160.00	0.00	66,000.00	0.00	0.00	0.00	227,636.57

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
1,803.0000	0.0666	15.0250	126.2543	47.1786	64.4739	0.3328

Activity: 030520 2 Sided Walls Gang Form & Strip (Unreviewed) Quantity: 5210.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	12.10	4.26	16.36	1.00	0.00	0.00	0.00	0.00	0.00	0.00	17.36
Total	63,041.00	22,183.45	85,224.45	5,223.03	0.00	0.00	0.00	0.00	0.00	0.00	90,447.48

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
17.3604	0.0500	20.0000	347.2072	26.0500	200.0000	0.0050	3,472.0722

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
1,302.5000	4.0000	0.2500	65.4314	12.1000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C4 (Mod) CONCRETE FORMING CREW Prod:MU 0.25 Eff: 100.00 Crew Hrs:260.50 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8PKF550	MCM Ford F-550-Concrete	1.00	260.50	HR	20.05	100.000	20.05	5,223.03
CARPE	Carpenter	4.00	1,042.00	MH	45.00	110.000	66.74	69,539.64
LABRA	Laborer General	1.00	260.50	MH	40.00	110.000	60.21	15,684.81

Activity: 030525 2 Sided Walls Gang Rebar (Unreviewed) Quantity: 26400.00 Unit: LBS

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
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U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.00	0.00	2.50
Total	0.00	0.00	0.00	0.00	0.00	0.00	66,000.00	0.00	0.00	0.00	66,000.00

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
0.0000	0.0000	12,000,000.0000	0.0000	0.0002	120,000,000.0000	0.0000	300,000,000.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C5 REBAR CREW Prod:UM 2400000 Eff:100.00 Crew Hrs:0.00 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 REBAR	Rebar	1.00	26,400.00	LBS	2.50	100.000	2.50	66,000.00
8PKF550	MCM Ford F-550-Concrete	1.00	0.00	HR	20.05	100.000	0.00	0.00
CEF	Concrete Foreman	1.00	0.00	MH	40.00	110.000	0.00	0.00
IWREINF	Ironworker Reinforcing Steel	2.00	0.00	MH	45.00	110.000	0.00	0.00
LABRA	Laborer General	2.00	0.00	MH	40.00	110.000	0.00	0.00

Activity: 030530 2 Sided Walls Gang Place (Unreviewed) Quantity: 120.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	88.00	35.15	123.15	8.02	318.00	0.00	0.00	0.00	0.00	0.00	449.17
Total	10,560.00	4,218.55	14,778.55	962.40	38,160.00	0.00	0.00	0.00	0.00	0.00	53,900.95

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
131.1746	0.4000	2.5000	327.9365	4.8000	25.0000	0.0400	11,229.3646

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
240.0000	0.5000	2.0000	61.5773	88.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C2 CONCRETE PLACING CREW Prod:MU 2 Eff:100.00 Crew Hrs:48.00 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 READYMIX	Readymix	1.00	120.00	CY	300.00	106.000	318.00	38,160.00
8PKF550	MCM Ford F-550-Concrete	1.00	48.00	HR	20.05	100.000	20.05	962.40
CEF	Concrete Foreman	1.00	48.00	MH	40.00	110.000	63.16	3,031.45
CEFIN	Concrete Finisher	2.00	96.00	MH	40.00	110.000	62.16	5,966.90
LABRA	Laborer General	2.00	96.00	MH	40.00	110.000	60.21	5,780.20

Activity: 030535 2 Sided Walls Gang Finish (Unreviewed) Quantity: 5210.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	2.20	0.92	3.12	0.20	0.00	0.00	0.00	0.00	0.00	0.00	3.32
Total	11,462.00	4,781.53	16,243.53	1,044.61	0.00	0.00	0.00	0.00	0.00	0.00	17,288.14

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
3.3183	0.0100	100.0000	331.8261	5.2100	1,000.0000	0.0010	3,318.2610

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
260.5000	20.0000	0.0500	62.3552	2.2000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: C1 (Mod) CONCRETE FINISHING CREW Prod:MU 0.05 Eff:100.00 Crew Hrs:52.10 Labor Pcs:5.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8PKF550	MCM Ford F-550-Concrete	1.00	52.10	HR	20.05	100.000	20.05	1,044.61
CEF	Concrete Foreman	1.00	52.10	MH	40.00	110.000	63.16	3,290.39
CEFIN	Concrete Finisher	4.00	208.40	MH	40.00	110.000	62.16	12,953.14

**Biditem - Parent**

**1500**

**METALS**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
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U. Cost	880.00	324.21	1,204.21	731.32	6,360.00	0.00	0.00	0.00	0.00	0.00	8,295.53		
Total	880.00	324.21	1,204.21	731.32	6,360.00	0.00	0.00	0.00	0.00	0.00	8,295.53		
Manhours		Unit/MH	MH/Unit										
20.0000		0.0500	20.0000			414.7765		Base Labor/MH	44.0000	Total Labor/MH	60.2105	Unit/CH	0.0000

Biditem

1510

Weirs

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

U. Cost	880.00	324.21	1,204.21	731.32	6,360.00	0.00	0.00	0.00	0.00	0.00	8,295.53		
Total	880.00	324.21	1,204.21	731.32	6,360.00	0.00	0.00	0.00	0.00	0.00	8,295.53		
Manhours		Unit/MH	MH/Unit										
20.0000		0.0500	20.0000			414.7765		Base Labor/MH	44.0000	Total Labor/MH	60.2105	Unit/CH	0.1000

Activity: 050001 Weir, Stainless Steel (Unreviewed) Quantity: 2.00 Unit: EA

U. Cost	440.00	162.11	602.11	365.66	3,180.00	0.00	0.00	0.00	0.00	0.00	4,147.77				
Total	880.00	324.21	1,204.21	731.32	6,360.00	0.00	0.00	0.00	0.00	0.00	8,295.53				
Crew \$/Unit	967.7650	Crew Hrs/Unit	5.0000	Units/Crew Hr	0.2000	\$/Crew Hour	193.5530	Shifts	1.0000	Units/Shift	2.0000	Shifts/Unit	0.5000	\$/Shift	8,295.5300
Manhours		Unit/MH	MH/Unit												
20.0000		0.1000	10.0000			10.0000		Base Labor/Unit	440.0000	Total Labor/MH	60.2105	Unit/CH			

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: LAB2 (Mod) 2 MAN LABOR CREW Prod: CH 10 Eff: 100.00 Crew Hrs: 10.00 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 WEIR SS	Stainless Steel Weir Box (2" width)	1.00	2.00	EA	3,000.00	106.000	3,180.00	6,360.00
8EXCAT301	CAT 301 Mini Ex	1.00	10.00	HR	50.03	106.000	53.03	530.32
8PKF350	MCM Ford F-350-Excavation	1.00	10.00	HR	20.10	100.000	20.10	201.00
LABRA	Laborer General	2.00	20.00	MH	40.00	110.000	60.21	1,204.21

Biditem - Parent

3100

EARTHWORK

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

U. Cost	95,713.53	34,028.74	129,742.27	201,450.74	59,777.38	69,960.00	940,220.00	24,240.00	0.00	21,000.00	1,446,390.39		
Total	95,713.53	34,028.74	129,742.27	201,450.74	59,777.38	69,960.00	940,220.00	24,240.00	0.00	21,000.00	1,446,390.39		
Manhours		Unit/MH	MH/Unit										
1,966.1800		0.0005	1,966.1800			735.6348		Base Labor/MH	48.6799	Total Labor/MH	65.9870	Unit/CH	0.0000

Biditem

3105

SWPPP

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

U. Cost	4,400.00	1,621.04	6,021.04	3,119.70	0.00	0.00	0.00	0.00	0.00	5,000.00	14,140.74		
Total	4,400.00	1,621.04	6,021.04	3,119.70	0.00	0.00	0.00	0.00	0.00	5,000.00	14,140.74		
Manhours		Unit/MH	MH/Unit										
100.0000		0.0100	100.0000			141.4074		Base Labor/MH	44.0000	Total Labor/MH	60.2104	Unit/CH	0.0200

**Activity: 310690 SWPPP & BMP (Unreviewed) Quantity: 1.00 Unit: LS**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	4,400.00	1,621.04	6,021.04	3,119.70	0.00	0.00	0.00	0.00	0.00	5,000.00	14,140.74
Total	4,400.00	1,621.04	6,021.04	3,119.70	0.00	0.00	0.00	0.00	0.00	5,000.00	14,140.74

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	9,140.7400	50.0000	0.0200	182.8148	5.0000	0.2000	5.0000	2,828.1480

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	100.0000	0.0100	100.0000	60.2104	4,400.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: LAB2 (Mod) 2 MAN LABOR CREW Prod: CH 50 Eff: 100.00 Crew Hrs: 50.00 Labor Pcs: 2.00 Equipment Pcs: 2.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
7 SWPPP PLAN	SWPPP PLAN	1.00	1.00	LS	5,000.00	100.000	5,000.00	5,000.00
8LOS272	CAT 272, JD332 - Skid 95HP	1.00	50.00	HR	39.90	106.000	42.29	2,114.70
8PKF350	MCM Ford F-350-Excavation	1.00	50.00	HR	20.10	100.000	20.10	1,005.00
LABRA	Laborer General	2.00	100.00	MH	40.00	110.000	60.21	6,021.04

**Biditem Control of Water**  
**3110**  
 Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	71,731.00	25,639.01	97,370.01	169,517.04	0.00	69,960.00	115,250.00	0.00	0.00	0.00	452,097.05
Total	71,731.00	25,639.01	97,370.01	169,517.04	0.00	69,960.00	115,250.00	0.00	0.00	0.00	452,097.05

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	1,488.0000	0.0007	1,488.0000	303.8287	48.2063	65.4368	0.0013

**Activity: 310159 Cofferdam (Unreviewed) Quantity: 230.00 Unit: FT**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	425.00	0.00	0.00	0.00	425.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	97,750.00	0.00	0.00	0.00	97,750.00

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 S SACK CD	Supersack Cofferdam	1.00	230.00	FT	350.00	100.000	350.00	80,500.00
4 S SACK RE	Removal Supersack Cofferdam	1.00	230.00	FT	75.00	100.000	75.00	17,250.00

**Activity: 310160 Dewatering (Unreviewed) Quantity: 35.00 Unit: DAYS**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,925.00	689.21	2,614.21	4,215.22	0.00	1,696.00	500.00	0.00	0.00	0.00	9,025.43
Total	67,375.00	24,122.18	91,497.18	147,532.70	0.00	59,360.00	17,500.00	0.00	0.00	0.00	315,889.88

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	6,829.4251	10.0000	0.1000	682.9425	35.0000	1.0000	1.0000	9,025.4251

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	1,400.0000	0.0250	40.0000	65.3551	1,925.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: LAB4 (Mod) 4 MAN LABOR CREW Prod: HU 10 Eff: 100.00 Crew Hrs: 350.00 Labor Pcs: 4.00 Equipment Pcs: 8.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3 HOSE RENT	10" HDPE hose (rent)	1.00	3,500.00	FT	16.00	106.000	16.96	59,360.00
4 MOB	PUMP MOB	1.00	3.50	TL	5,000.00	100.000	5,000.00	17,500.00
8EXCAT335	CAT335, JD350 - 80,000 lbs	1.00	350.00	HR	121.30	106.000	128.58	45,002.30

8PKF350	MCM Ford F-350-Excavation	1.00	350.00	HR	20.10	100.000	20.10	7,035.00
8PMP8D	8" Centrifugal, Trash - Dies	6.00	2,100.00	HR	42.90	106.000	45.47	95,495.40
LABRA	Laborer General	2.00	700.00	MH	40.00	110.000	60.21	42,147.28
LABRF	Labor/Excavation Foreman	1.00	350.00	MH	45.00	110.000	67.74	23,707.85
OPEX	Operator Excavator	1.00	350.00	MH	50.00	110.000	73.26	25,642.05

**Activity: 310161 Maintenance Dewatering (Unreviewed) Quantity: 2.00 Unit: MO**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	2,178.00	758.42	2,936.42	10,992.17	0.00	5,300.00	0.00	0.00	0.00	0.00	19,228.59
Total	4,356.00	1,516.83	5,872.83	21,984.34	0.00	10,600.00	0.00	0.00	0.00	0.00	38,457.17

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	13,928.5850	220.0000	0.0045	63.3118	44.0000	0.0455	22.0000	874.0266

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	88.0000	0.0227	44.0000	66.7367	2,178.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: LAB2 (Mod) 2 MAN LABOR CREW Prod: HU 220 Eff: 100.00 Crew Hrs: 440.00 Labor Pcs: 0.20 Equipment Pcs: 1.70

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
3 HOSE (RENT	Hose Rent	1.00	2.00	MO	5,000.00	106.000	5,300.00	10,600.00
8EXCAT336	CAT336 - 89,000 lbs	0.10	44.00	HR	138.90	106.000	147.23	6,478.30
8PKF350	MCM Ford F-350-Excavation	0.10	44.00	HR	20.10	100.000	20.10	884.40
8PMP4D	4" Centrifugal, Trash - Dies	1.50	660.00	HR	20.90	106.000	22.15	14,621.64
LABRA	Laborer General	0.10	44.00	MH	40.00	110.000	60.21	2,649.26
OPEX	Operator Excavator	0.10	44.00	MH	50.00	110.000	73.26	3,223.57

**Biditem Structural Excavation**

**3120**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	3,300.00	1,115.78	4,415.78	4,868.84	0.00	0.00	0.00	11,400.00	0.00	0.00	20,684.62
Total	3,300.00	1,115.78	4,415.78	4,868.84	0.00	0.00	0.00	11,400.00	0.00	0.00	20,684.62

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	60.0000	0.0167	60.0000	344.7437	55.0000	73.5963	0.0500

**Activity: 310340 Structure Excavation (Unreviewed) Quantity: 500.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6.60	2.23	8.83	9.74	0.00	0.00	0.00	22.80	0.00	0.00	41.37
Total	3,300.00	1,115.78	4,415.78	4,868.84	0.00	0.00	0.00	11,400.00	0.00	0.00	20,684.62

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	18.5692	0.0400	25.0000	464.2310	2.0000	250.0000	0.0040	10,342.3100

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	60.0000	8.3333	0.1200	73.5963	6.6000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX326 CAT 326 EXCAVATOR CREW Prod: UH 25 Eff: 100.00 Crew Hrs: 20.00 Labor Pcs: 3.00 Equipment Pcs: 3.00

Notes: Assume material is disposed within 1 hour drive (2 hour round trip)  
Assume 25% of the material is reused and 75% is disposed.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5TRUCK	Trucking - Hourly	1.00	38.00	TL	300.00	100.000	300.00	11,400.00
8EXCAT326	CAT326, JD300 - 66,000 lbs	1.00	20.00	HR	117.05	106.000	124.07	2,481.46
8LO950	CAT 950, JD644 - 4CY	1.00	20.00	HR	93.65	106.000	99.27	1,985.38

8PKF350	MCM Ford F-350-Excavation	1.00	20.00	HR	20.10	100.000	20.10	402.00
OPEX	Operator Excavator	1.00	20.00	MH	50.00	110.000	73.26	1,465.26
OPFO	Operator Foreman	1.00	20.00	MH	50.00	110.000	74.26	1,485.26
OPLO	Operator Loader	1.00	20.00	MH	50.00	110.000	73.26	1,465.26

**Biditem**

**Excavation - Liner Prep**

**3125**

Takeoff Qty: 260.000 CY  
Bid Qty: 260.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6.60	2.23	8.83	9.74	0.00	0.00	0.00	30.00	0.00	0.00	48.57
Total	1,716.00	580.22	2,296.22	2,531.80	0.00	0.00	0.00	7,800.00	0.00	0.00	12,628.02

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	31.2000	8.3333	0.1200	404.7442	55.0000	73.5968	25.0000

**Activity: 310340 Structure Excavation (Unreviewed) Quantity: 260.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6.60	2.23	8.83	9.74	0.00	0.00	0.00	30.00	0.00	0.00	48.57
Total	1,716.00	580.22	2,296.22	2,531.80	0.00	0.00	0.00	7,800.00	0.00	0.00	12,628.02

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	18.5693	0.0400	25.0000	464.2327	1.0400	250.0000	0.0040	12,142.3269

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	31.2000	8.3333	0.1200	73.5968	6.6000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX326 CAT 326 EXCAVATOR CREW Prod:UH 25 Eff:100.00 Crew Hrs:10.40 Labor Pcs:3.00 Equipment Pcs:3.00

Notes: Assume material is disposed within 1 hour drive (2 hour round trip)

Assume 25% of the material is reused and 75% is disposed.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5TRUCK	Trucking - Hourly	1.00	26.00	TL	300.00	100.000	300.00	7,800.00
8EXCAT326	CAT326, JD300 - 66,000 lbs	1.00	10.40	HR	117.05	106.000	124.07	1,290.36
8LO950	CAT 950, JD644 - 4CY	1.00	10.40	HR	93.65	106.000	99.27	1,032.40
8PKF350	MCM Ford F-350-Excavation	1.00	10.40	HR	20.10	100.000	20.10	209.04
OPEX	Operator Excavator	1.00	10.40	MH	50.00	110.000	73.26	761.94
OPFO	Operator Foreman	1.00	10.40	MH	50.00	110.000	74.26	772.34
OPLO	Operator Loader	1.00	10.40	MH	50.00	110.000	73.26	761.94

**Biditem**

**Structural Fill**

**3130**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,881.00	648.00	2,529.00	3,343.42	17,887.50	0.00	0.00	0.00	0.00	0.00	23,759.92
Total	1,881.00	648.00	2,529.00	3,343.42	17,887.50	0.00	0.00	0.00	0.00	0.00	23,759.92

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	36.0000	0.0278	36.0000	659.9978	52.2500	70.2500	0.1111

**Activity: 310600 Structural Backfill & Compacting (Unreviewed) Quantity: 225.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	8.36	2.88	11.24	14.86	79.50	0.00	0.00	0.00	0.00	0.00	105.60
Total	1,881.00	648.00	2,529.00	3,343.42	17,887.50	0.00	0.00	0.00	0.00	0.00	23,759.92

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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26.0996	0.0400	25.0000	652.4911	0.9000	250.0000	0.0040	26,399.9111
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
36.0000	6.2500	0.1600	70.2500	8.3600			

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.  
 Crew: EXSB (Mod) STRUCTURAL BACKFILL Prod:UH 25 Eff:100.00 Crew Hrs:9.00 Labor Pcs:4.00 Equipment Pcs:4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 TYPE SF	Type SF Aggregate	1.00	225.00	CY	75.00	106.000	79.50	17,887.50
8EXCAT336	CAT336 - 89,000 lbs	1.00	9.00	HR	138.90	106.000	147.23	1,325.11
8LO966	CAT 966, JD744 - 4.5CY	1.00	9.00	HR	99.85	106.000	105.84	952.57
8PKF350	MCM Ford F-350-Excavation	1.00	9.00	HR	20.10	100.000	20.10	180.90
8WT4	Water Truck-4000 Gal	1.00	9.00	HR	92.75	106.000	98.32	884.84
OPEX	Operator Excavator	1.00	9.00	MH	50.00	110.000	73.26	659.37
OPFO	Operator Foreman	1.00	9.00	MH	50.00	110.000	74.26	668.37
OPLO	Operator Loader	1.00	9.00	MH	50.00	110.000	73.26	659.37
TDWT	Truck Driver (Water Truck)	1.00	9.00	MH	40.00	110.000	60.21	541.89

**Biditem** **Common Fill**  
**3140**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	2,299.00	791.98	3,090.98	4,086.39	0.00	0.00	0.00	0.00	0.00	0.00	7,177.37
Total	2,299.00	791.98	3,090.98	4,086.39	0.00	0.00	0.00	0.00	0.00	0.00	7,177.37

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
44.0000	0.0227	44.0000	163.1220	52.2500	70.2495	0.0909

**Activity: 310601 Common Backfill (Unreviewed) Quantity: 275.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	8.36	2.88	11.24	14.86	0.00	0.00	0.00	0.00	0.00	0.00	26.10
Total	2,299.00	791.98	3,090.98	4,086.39	0.00	0.00	0.00	0.00	0.00	0.00	7,177.37

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
26.0995	0.0400	25.0000	652.4882	1.1000	250.0000	0.0040	6,524.8818

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
44.0000	6.2500	0.1600	70.2495	8.3600

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.  
 Crew: EXSB (Mod) STRUCTURAL BACKFILL Prod:UH 25 Eff:100.00 Crew Hrs:11.00 Labor Pcs:4.00 Equipment Pcs:4.00

Notes: Assume onsite excavated material is suitable for common fill

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCAT336	CAT336 - 89,000 lbs	1.00	11.00	HR	138.90	106.000	147.23	1,619.57
8LO966	CAT 966, JD744 - 4.5CY	1.00	11.00	HR	99.85	106.000	105.84	1,164.25
8PKF350	MCM Ford F-350-Excavation	1.00	11.00	HR	20.10	100.000	20.10	221.10
8WT4	Water Truck-4000 Gal	1.00	11.00	HR	92.75	106.000	98.32	1,081.47
OPEX	Operator Excavator	1.00	11.00	MH	50.00	110.000	73.26	805.89
OPFO	Operator Foreman	1.00	11.00	MH	50.00	110.000	74.26	816.89
OPLO	Operator Loader	1.00	11.00	MH	50.00	110.000	73.26	805.89
TDWT	Truck Driver (Water Truck)	1.00	11.00	MH	40.00	110.000	60.21	662.31

**Biditem** **Access Road**  
**3145**

Takeoff Qty: 290.000 CY  
 Bid Qty: 290.000 CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	11.29	3.89	15.18	18.38	19.19	0.00	0.00	0.00	0.00	0.00	52.76
Total	3,275.03	1,128.22	4,403.25	5,330.87	5,565.00	0.00	0.00	0.00	0.00	0.00	15,299.12

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	62.6800	4.6267	0.2161	244.0830	52.2500	70.2497	18.5106

Activity: 310355 Import & Place Fill Material (Unreviewed) Quantity: 70.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	13.94	4.80	18.75	17.78	79.50	0.00	0.00	0.00	0.00	0.00	116.03
Total	976.03	336.24	1,312.27	1,244.48	5,565.00	0.00	0.00	0.00	0.00	0.00	8,121.75

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	36.5250	0.0667	14.9999	547.8711	0.4667	149.9989	0.0067	17,403.6257

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	18.6800	3.7473	0.2669	70.2500	13.9433

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: GR3 12M FINISH CREW Prod:UH 14.9999 Eff: 100.00 Crew Hrs:4.67 Labor Pcs:4.00 Equipment Pcs:3.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 AGG	Agg Fill	1.00	70.00	CY	75.00	106.000	79.50	5,565.00
8GR12	Grader-Cat 12M	1.00	4.67	HR	97.20	106.000	103.03	481.16
8ROV84	Vibrating Roller - 84"	1.00	4.67	HR	61.45	106.000	65.14	304.19
8WT4	Water Truck-4000 Gal	1.00	4.67	HR	92.75	106.000	98.31	459.13
OPFO	Operator Foreman	1.00	4.67	MH	50.00	110.000	74.26	346.81
OPGR	Operator Motor Grader	1.00	4.67	MH	50.00	110.000	73.26	342.14
OPRO	Operator Roller/Compactor	1.00	4.67	MH	50.00	110.000	73.26	342.14
TDWT	Truck Driver (Water Truck)	1.00	4.67	MH	40.00	110.000	60.21	281.18

Activity: 310601 Common Backfill (Unreviewed) Quantity: 220.00 Unit: CY

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	10.45	3.60	14.05	18.57	0.00	0.00	0.00	0.00	0.00	0.00	32.62
Total	2,299.00	791.98	3,090.98	4,086.39	0.00	0.00	0.00	0.00	0.00	0.00	7,177.37

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	32.6244	0.0500	20.0000	652.4882	1.1000	200.0000	0.0050	6,524.8818

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	44.0000	5.0000	0.2000	70.2495	10.4500

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EXSB (Mod) STRUCTURAL BACKFILL Prod:UH 20 Eff: 100.00 Crew Hrs:11.00 Labor Pcs:4.00 Equipment Pcs:4.00

Notes: Assume onsite excavated material is suitable for common fill

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8EXCAT336	CAT336 - 89,000 lbs	1.00	11.00	HR	138.90	106.000	147.23	1,619.57
8LO966	CAT 966, JD744 - 4.5CY	1.00	11.00	HR	99.85	106.000	105.84	1,164.25
8PKF350	MCM Ford F-350-Excavation	1.00	11.00	HR	20.10	100.000	20.10	221.10
8WT4	Water Truck-4000 Gal	1.00	11.00	HR	92.75	106.000	98.32	1,081.47
OPEX	Operator Excavator	1.00	11.00	MH	50.00	110.000	73.26	805.89
OPFO	Operator Foreman	1.00	11.00	MH	50.00	110.000	74.26	816.89
OPLO	Operator Loader	1.00	11.00	MH	50.00	110.000	73.26	805.89
TDWT	Truck Driver (Water Truck)	1.00	11.00	MH	40.00	110.000	60.21	662.31

Biditem

**3150**

Trenching

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	924.00	312.41	1,236.41	1,529.78	0.00	0.00	0.00	5,040.00	0.00	0.00	7,806.19
Total	924.00	312.41	1,236.41	1,529.78	0.00	0.00	0.00	5,040.00	0.00	0.00	7,806.19

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	16.8000	0.0595	16.8000	464.6542	55.0000	73.5958	0.1786

**Activity: 310800 Trenching (Unreviewed) Quantity: 140.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6.60	2.23	8.83	10.93	0.00	0.00	0.00	36.00	0.00	0.00	55.76
Total	924.00	312.41	1,236.41	1,529.78	0.00	0.00	0.00	5,040.00	0.00	0.00	7,806.19

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	19.7585	0.0400	25.0000	493.9625	0.5600	250.0000	0.0040	13,939.6250

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	16.8000	8.3333	0.1200	73.5958	6.6000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX336 CAT 336 EXCAVATOR CREW Prod:UH 25 Eff: 100.00 Crew Hrs:5.60 Labor Pcs:3.00 Equipment Pcs:3.00

Notes: Assume 1/2 of excavated material is disposed offsite.

Assume 1/2 of excavated material is blended with bentonite for backfill and remains onsite

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
5TRUCK	Trucking - Hourly	1.00	14.00	TL	300.00	100.000	300.00	4,200.00
5TRUCK ONSIT	Trucking - Hourly Onsite Stockpiling	1.00	5.60	HR	150.00	100.000	150.00	840.00
8EXCAT336	CAT336 - 89,000 lbs	1.00	5.60	HR	138.90	106.000	147.23	824.51
8LO966	CAT 966, JD744 - 4.5CY	1.00	5.60	HR	99.85	106.000	105.84	592.71
8PKF350	MCM Ford F-350-Excavation	1.00	5.60	HR	20.10	100.000	20.10	112.56
OPEX	Operator Excavator	1.00	5.60	MH	50.00	110.000	73.26	410.27
OPFO	Operator Foreman	1.00	5.60	MH	50.00	110.000	74.26	415.87
OPLO	Operator Loader	1.00	5.60	MH	50.00	110.000	73.26	410.27

**Biditem**

**3160**

**Bentonite Fill**

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	4,427.50	1,543.66	5,971.16	6,720.90	35,476.88	0.00	0.00	0.00	0.00	0.00	48,168.94
Total	4,427.50	1,543.66	5,971.16	6,720.90	35,476.88	0.00	0.00	0.00	0.00	0.00	48,168.94

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	87.5000	0.0114	87.5000	550.5022	50.6000	68.2418	0.0571

**Activity: 310371 Bentonite Backfill (Unreviewed) Quantity: 140.00 Unit: CY**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	31.63	11.03	42.65	48.01	253.41	0.00	0.00	0.00	0.00	0.00	344.06
Total	4,427.50	1,543.66	5,971.16	6,720.90	35,476.88	0.00	0.00	0.00	0.00	0.00	48,168.94

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	90.6576	0.1250	8.0000	725.2606	1.7500	80.0000	0.0125	27,525.1086

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	87.5000	1.6000	0.6250	68.2418	31.6250

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX326 (Mod) CAT 326 EXCAVATOR CREW Prod:UH 8 Eff: 100.00 Crew Hrs:17.50 Labor Pcs:5.00 Equipment Pcs:5.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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2 BENTONITE	Bentonite (bulk bag)	1.00	43.75	CY	600.00	106.000	636.00	27,825.00
2 CLAY FILL	Clay Fill	1.00	96.25	CY	75.00	106.000	79.50	7,651.88
8EXCAT326	CAT326, JD300 - 66,000 lbs	1.00	17.50	HR	117.05	106.000	124.07	2,171.28
8LO950	CAT 950, JD644 - 4CY	1.00	17.50	HR	93.65	106.000	99.27	1,737.21
8LOS272	CAT 272, JD332 - Skid 95HP	1.00	17.50	HR	39.90	106.000	42.29	740.15
8PKF350	MCM Ford F-350-Excavation	1.00	17.50	HR	20.10	100.000	20.10	351.75
8WT4	Water Truck-4000 Gal	1.00	17.50	HR	92.75	106.000	98.31	1,720.51
LABRA	Laborer General	1.00	17.50	MH	40.00	110.000	60.21	1,053.68
OPEX	Operator Excavator	1.00	17.50	MH	50.00	110.000	73.26	1,282.10
OPFO	Operator Foreman	1.00	17.50	MH	50.00	110.000	74.26	1,299.60
OPLO	Operator Loader	1.00	17.50	MH	50.00	110.000	73.26	1,282.10
TDWT	Truck Driver (Water Truck)	1.00	17.50	MH	40.00	110.000	60.21	1,053.68

**Biditem**

**Piezometer**

**3170**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,760.00	648.42	2,408.42	402.00	848.00	0.00	36,000.00	0.00	0.00	0.00	39,658.42
Total	1,760.00	648.42	2,408.42	402.00	848.00	0.00	36,000.00	0.00	0.00	0.00	39,658.42

Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
40.0000	0.0250	40.0000	991.4605	44.0000	60.2105	0.0500

Activity: 310031 Piezometer Slotted Pipe (Unreviewed) Quantity: 80.00 Unit: FT

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	22.00	8.11	30.11	5.03	10.60	0.00	450.00	0.00	0.00	0.00	495.73
Total	1,760.00	648.42	2,408.42	402.00	848.00	0.00	36,000.00	0.00	0.00	0.00	39,658.42

Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
35.1303	0.2500	4.0000	140.5210	2.0000	40.0000	0.0250	19,829.2100

Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
40.0000	2.0000	0.5000	60.2105	22.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift:10 WC: Code not found.

Crew: LAB2 2 MAN LABOR CREW Prod:CH 20 Eff:100.00 Crew Hrs:20.00 Labor Pcs:2.00 Equipment Pcs:1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 SLOT PIPE	Slotted Pipe	1.00	80.00	FT	10.00	106.000	10.60	848.00
4 DRILL SUB	Drill Sub	1.00	2.00	DAYS	12,000.00	100.000	12,000.00	24,000.00
4 SUB MOB	Sub Mob	1.00	1.00	LS	12,000.00	100.000	12,000.00	12,000.00
8PKF350	MCM Ford F-350-Excavation	1.00	20.00	HR	20.10	100.000	20.10	402.00
LABRA	Laborer General	2.00	40.00	MH	40.00	110.000	60.21	2,408.42

**Biditem**

**Geomembrane Liner**

**3180**

Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	788,970.00	0.00	0.00	16,000.00	804,970.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	788,970.00	0.00	0.00	16,000.00	804,970.00

Activity: 130001 Geomembrane Liner (Unreviewed) Quantity: 17000.00 Unit: SF

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	46.41	0.00	0.00	0.94	47.35
Total	0.00	0.00	0.00	0.00	0.00	0.00	788,970.00	0.00	0.00	16,000.00	804,970.00

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Notes: Pricing based on notes added to quote - \$520k for 15,000 sf installed

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 LINER SUB	Furnish and Install Gemembrane Liner	1.00	17,000.00	SF	46.41	100.000	46.41	788,970.00
7 SALES TAX	Sales Tax on Liner Mat'ls Pricing (\$100k)	1.00	1.00	LS	6,000.00	100.000	6,000.00	6,000.00
7 TARIFFS	Tariffs - 10% Assumed	1.00	1.00	LS	10,000.00	100.000	10,000.00	10,000.00

**Biditem - Parent EXTERIOR IMPROVEMENTS**

**3200**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	17,622.00	6,198.26	23,820.26	17,244.90	12,115.80	0.00	90,250.00	0.00	0.00	2,500.00	145,930.96
Total	17,622.00	6,198.26	23,820.26	17,244.90	12,115.80	0.00	90,250.00	0.00	0.00	2,500.00	145,930.96

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	360.0000	0.0028	360.0000	405.3638	48.9500	66.1674	0.0000

**Biditem Fencing**

**3210**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	59,500.00	0.00	0.00	0.00	59,500.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	59,500.00	0.00	0.00	0.00	59,500.00

Activity: 321270 Chain Link Fences (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	59,500.00	0.00	0.00	0.00	59,500.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	59,500.00	0.00	0.00	0.00	59,500.00

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 12FT GATE	12ft Gate	1.00	1.00	LS	6,000.00	100.000	6,000.00	6,000.00
4 4FT GATE	4 ft Gate	1.00	1.00	EA	1,500.00	100.000	1,500.00	1,500.00
4 FENCE	Fence	1.00	520.00	LF	100.00	100.000	100.00	52,000.00

**Biditem Site Grading**

**3220**

Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6,270.00	2,159.98	8,429.98	8,681.79	0.00	0.00	0.00	0.00	0.00	0.00	17,111.77
Total	6,270.00	2,159.98	8,429.98	8,681.79	0.00	0.00	0.00	0.00	0.00	0.00	17,111.77

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	120.0000	0.0083	120.0000	142.5981	52.2500	70.2498	0.0333

Activity: 320560 Site Gradin (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	6,270.00	2,159.98	8,429.98	8,681.79	0.00	0.00	0.00	0.00	0.00	0.00	17,111.77
Total	6,270.00	2,159.98	8,429.98	8,681.79	0.00	0.00	0.00	0.00	0.00	0.00	17,111.77

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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17,111.7700	30.0000	0.0333	570.3923	3.0000	0.3333	3.0000	5,703.9233
Manhours		Unit/MH	MH/Unit		Total Labor/MH		Base Labor/Unit
120.0000		0.0083	120.0000		70.2498		6,270.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.  
 Crew: GR4 LOADER FINISH CREW Prod:CH 30 Eff:100.00 Crew Hrs:30.00 Labor Pcs:4.00 Equipment Pcs:4.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
8LO966	CAT 966, JD744 - 4.5CY	1.00	30.00	HR	99.85	106.000	105.84	3,175.23
8PKF350	MCM Ford F-350-Excavation	1.00	30.00	HR	20.10	100.000	20.10	603.00
8ROV84	Vibrating Roller - 84"	1.00	30.00	HR	61.45	106.000	65.14	1,954.11
8WT4	Water Truck-4000 Gal	1.00	30.00	HR	92.75	106.000	98.32	2,949.45
OPFO	Operator Foreman	1.00	30.00	MH	50.00	110.000	74.26	2,227.89
OPLO	Operator Loader	1.00	30.00	MH	50.00	110.000	73.26	2,197.89
OPRO	Operator Roller/Compactor	1.00	30.00	MH	50.00	110.000	73.26	2,197.89
TDWT	Truck Driver (Water Truck)	1.00	30.00	MH	40.00	110.000	60.21	1,806.31

Notes: Pricing based on 6 anchor locations

**Biditem** **Debris Boom Anchors**  
**3230** Takeoff Qty: 1.000 LS  
Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,606.00	571.68	2,177.68	2,383.94	5,755.80	0.00	750.00	0.00	0.00	2,500.00	13,567.42
Total	1,606.00	571.68	2,177.68	2,383.94	5,755.80	0.00	750.00	0.00	0.00	2,500.00	13,567.42

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	34.0000	0.0294	34.0000	399.0418	47.2353	64.0494	0.1250

Activity: 031071 Eco Block & Chain (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	5,755.80	0.00	750.00	0.00	0.00	2,500.00	9,005.80
Total	0.00	0.00	0.00	0.00	5,755.80	0.00	750.00	0.00	0.00	2,500.00	9,005.80

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 BUOY	24" Buoy	1.00	6.00	EA	530.00	106.000	561.80	3,370.80
2 CHAIN	20' Chains	1.00	6.00	EA	125.00	106.000	132.50	795.00
2 ECOBLOCK	Eco Block	1.00	6.00	EA	200.00	106.000	212.00	1,272.00
2 SHACKLE	Chain Shackle (1,500 lb)	1.00	12.00	EA	25.00	106.000	26.50	318.00
4 EYE BOLTS	Eye Bolts w/ Adhesive Anchor	1.00	6.00	EA	125.00	100.000	125.00	750.00
7 FREIGHT	Freight	1.00	1.00	TL	2,500.00	100.000	2,500.00	2,500.00

Activity: 320001 Eco Block Anchor Install (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	1,606.00	571.68	2,177.68	2,383.94	0.00	0.00	0.00	0.00	0.00	0.00	4,561.62
Total	1,606.00	571.68	2,177.68	2,383.94	0.00	0.00	0.00	0.00	0.00	0.00	4,561.62

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	4,561.6200	8.0000	0.1250	570.2025	0.8000	1.2500	0.8000	5,702.0250

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	34.0000	0.0294	34.0000	64.0494	1,606.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX336 (Mod) CAT 336 EXCAVATOR CREW Prod:CH 8 Eff:100.00 Crew Hrs:8.00 Labor Pcs:4.25 Equipment Pcs:3.25

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
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8EXCAT336	CAT336 - 89,000 lbs	1.00	8.00	HR	138.90	106.000	147.23	1,177.87
8LO950	CAT 950, JD644 - 4CY	0.25	2.00	HR	93.65	106.000	99.27	198.54
8LO966	CAT 966, JD744 - 4.5CY	1.00	8.00	HR	99.85	106.000	105.84	846.73
8PKF350	MCM Ford F-350-Excavation	1.00	8.00	HR	20.10	100.000	20.10	160.80
LABRA	Laborer General	3.00	24.00	MH	40.00	110.000	60.21	1,445.05
OPEX	Operator Excavator	1.00	8.00	MH	50.00	110.000	73.26	586.10
OPLO	Operator Loader	0.25	2.00	MH	50.00	110.000	73.27	146.53

**Biditem**

**Relocate Existing Dock**

**3240**

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	5,874.00	2,104.09	7,978.09	4,651.07	0.00	0.00	7,500.00	0.00	0.00	0.00	20,129.16
Total	5,874.00	2,104.09	7,978.09	4,651.07	0.00	0.00	7,500.00	0.00	0.00	0.00	20,129.16

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	126.0000	0.0079	126.0000	159.7552	46.6190	63.3182	0.0417

Activity: 320002 Relocate Dock (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	5,874.00	2,104.09	7,978.09	4,651.07	0.00	0.00	7,500.00	0.00	0.00	0.00	20,129.16
Total	5,874.00	2,104.09	7,978.09	4,651.07	0.00	0.00	7,500.00	0.00	0.00	0.00	20,129.16

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
	12,629.1600	24.0000	0.0417	526.2150	2.4000	0.4167	2.4000	8,387.1500

	Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit
	126.0000	0.0079	126.0000	63.3182	5,874.0000

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: EX336 (Mod) CAT 336 EXCAVATOR CREW Prod:CH 24 Eff: 100.00 Crew Hrs:24.00 Labor Pcs:5.25 Equipment Pcs:2.25

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 CONC ANCHO	Concrete Anchor	1.00	5.00	CY	1,500.00	100.000	1,500.00	7,500.00
8EXCAT336	CAT336 - 89,000 lbs	1.00	24.00	HR	138.90	106.000	147.23	3,533.62
8LO966	CAT 966, JD744 - 4.5CY	0.25	6.00	HR	99.85	106.000	105.84	635.05
8PKF350	MCM Ford F-350-Excavation	1.00	24.00	HR	20.10	100.000	20.10	482.40
LABRA	Laborer General	4.00	96.00	MH	40.00	110.000	60.21	5,780.20
OPEX	Operator Excavator	1.00	24.00	MH	50.00	110.000	73.26	1,758.31
OPLO	Operator Loader	0.25	6.00	MH	50.00	110.000	73.26	439.58

**Biditem**

**Downstream Outfall Piping Extension**

**3250**

Takeoff Qty: 1.000 LS

Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	3,872.00	1,362.51	5,234.51	1,528.10	6,360.00	0.00	0.00	0.00	0.00	0.00	13,122.61
Total	3,872.00	1,362.51	5,234.51	1,528.10	6,360.00	0.00	0.00	0.00	0.00	0.00	13,122.61

	Manhours	Unit/MH	MH/Unit	\$/MH	Base Labor/MH	Total Labor/MH	Unit/CH
	80.0000	0.0125	80.0000	164.0326	48.4000	65.4314	0.0625

Activity: 320003 Wastewater Outfall Extension (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	3,872.00	1,362.51	5,234.51	1,528.10	6,360.00	0.00	0.00	0.00	0.00	0.00	13,122.61
Total	3,872.00	1,362.51	5,234.51	1,528.10	6,360.00	0.00	0.00	0.00	0.00	0.00	13,122.61

	Crew \$/Unit	Crew Hrs/Unit	Units/Crew Hr	\$/Crew Hour	Shifts	Units/Shift	Shifts/Unit	\$/Shift
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6,762.6100	16.0000	0.0625	422.6631	1.6000	0.6250	1.6000	8,201.6313
Manhours	Unit/MH	MH/Unit	Total Labor/MH	Base Labor/Unit			
80.0000	0.0125	80.0000	65.4314	3,872.0000			

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Crew: PC2 (Mod) PIPE CREW - SMALL Prod: CH 16 Eff: 100.00 Crew Hrs: 16.00 Labor Pcs: 5.00 Equipment Pcs: 1.00

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
2 PIPE ELBOW	Pipe Elbow	1.00	2.00	EA	400.00	106.000	424.00	848.00
2 PIPE FL	Pipe Flange	1.00	4.00	EA	500.00	106.000	530.00	2,120.00
2 STEEL PIPE	Steel Pipe	1.00	40.00	FT	80.00	106.000	84.80	3,392.00
8BH451	Backhoe-Cat 450 W/ Hoepack	1.00	16.00	HR	90.10	106.000	95.51	1,528.10
IWSTR	Ironworker Structural Steel	2.00	32.00	MH	45.00	110.000	66.74	2,135.57
LABRB	Laborer Pipelayer	2.00	32.00	MH	40.00	110.000	60.21	1,926.73
OPBH	Operator Backhoe	1.00	16.00	MH	50.00	110.000	73.26	1,172.21

Notes: Pricing assumes materials can be re-used

**Biditem** **Relocate Siphon**  
**3260**  
 Takeoff Qty: 1.000 LS  
 Bid Qty: 1.000 LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	22,500.00	0.00	0.00	0.00	22,500.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	22,500.00	0.00	0.00	0.00	22,500.00

Activity: 320004 Relocate Siphon (Unreviewed) Quantity: 1.00 Unit: LS

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
U. Cost	0.00	0.00	0.00	0.00	0.00	0.00	22,500.00	0.00	0.00	0.00	22,500.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	22,500.00	0.00	0.00	0.00	22,500.00

Calendar: 510 50 HR WK (5 DAYS@10 HR/DAY) Hrs/Shift: 10 WC: Code not found.

Notes: Costs based on \$7,500 for excavator based crew / cost per day

Resource	Description	Pcs/Wste	Quantity	Unit	Unit Cost	Tax/OT %	Actual UC	Total
4 RE MANHOLE	Relocate Manhole	1.00	1.00	LS	7,500.00	100.000	7,500.00	7,500.00
4 RE SIPHON	Relocate Siphon Pipe	1.00	1.00	LS	7,500.00	100.000	7,500.00	7,500.00
4 SIPHON/LIN	Siphon / Liner Interface Work	1.00	1.00	LS	7,500.00	100.000	7,500.00	7,500.00

**Report Summary**

	Base Labor	Burden	Total Labor	Equipment	Perm Matls	Const Matls	Sub	Trucking	Travel	Services	Total
Total	246,808	89,379	336,186	253,478	138,673	76,797	1,141,970	25,740	0	23,500	1,996,345

**Job Notes**

Estimate created on: 09/29/2025 by User#: 6 - Grant Wilson  
 Source estimate used: H:\HEAVYBID\EST\2024-MASTER

\*\*\*\*\*Estimate created on: 11/06/2025 by User#: 6 - Grant Wilson  
 Source estimate used: H:\HEAVYBID\EST\2025-39

\*\*\*\*\*Estimate created on: 12/08/2025 by User#: 6 - Grant Wilson  
 Source estimate used: H:\HEAVYBID\EST\2025-39-1

**Calendars Used In Estimate**

510 50 HR WK (5 DAYS@10 HR/DAY)

# Appendix C

<b>Winchester Dam</b>	
<b>PFM Information</b>	
Structure	Winchester Dam
Structure Type	Embankment Dam
Loading Condition	Normal
PFM Failure Type	Internal Erosion
Location(s)	Embankment
PFM Source	July 2022 SQRA
PFM Source Date	July 26, 2022
<b>PFM Description</b>	
PFM Number	1N
PFM Title	Internal erosion through the embankment except at the spillway/original outlet works.
PFM Description	<p>Failure process:</p> <ol style="list-style-type: none"> <li>1. Reservoir is at normal maximum water surface elevation (3,904.6 ft)</li> <li>2. Seepage through the embankment and existing defect(s) in the concrete core wall initiates internal erosion of the downstream shell material exiting at the unprotected face near the toe.</li> <li>3. Backwards erosion piping progresses to the concrete core wall.</li> <li>4. Internal erosion and seepage continue unnoticed.</li> <li>5. Internal erosion progresses backwards enlarging the seepage pathways and increasing the hydraulic gradient through the embankment.</li> <li>6. Seepage continues to erode material away from the downstream face of the core wall.</li> <li>7. Embankment material collapses into the void created by the seepage pathway.</li> <li>8. The concrete core wall topples downstream due to loss of support on the downstream side.</li> <li>9. Embankment material continues to collapse until the crest is breached.</li> <li>10. Uncontrolled release of the reservoir occurs through the crest breach.</li> </ol>
<b>Supporting Details</b>	
<p>Embankment</p> <ul style="list-style-type: none"> <li>● Dimensions                             <ul style="list-style-type: none"> <li>● Crest width: approximately 140 feet</li> <li>● Upstream slope: approximately 3:1 (H:V)</li> <li>● Downstream slope: varies from 1.5:1 to approx. 1:1 (H:V)</li> <li>● Max height: 40 feet</li> <li>● Hydraulic height: 36 feet (per IDWR inspection reports)</li> </ul> </li> <li>● Two-lane road across crest</li> <li>● Concrete core wall                             <ul style="list-style-type: none"> <li>● 1910 drawings show it was notched into bedrock for the full width of the dam.</li> <li>● Design drawings show it tapering at a 2':12' slope.</li> <li>● Damaged and "repaired" during 1948 overtopping.</li> </ul> </li> <li>● Construction history                             <ul style="list-style-type: none"> <li>● Originally constructed in 1910 by Craig Mountain Lumber Company</li> <li>● 1948: Original timber spillway between road embankment and core wall failed, causing overtopping of the core wall and washout of a substantial portion of the downstream fill all</li> </ul> </li> </ul>	

the way to the streambed elevation. The core wall was observed to have “bulged” downstream, cracked, and water was seen flowing out from underneath. Emergency repairs were made including using two steel cables with turnbuckles to attempt to pull the bulge back upstream. Material was bulldozed from the adjacent hillside to fill in the downstream slope. (1948 IDWR Special Inspection)

- Original Low-Level Outlet leaked from the beginning and was plugged. No replacement was installed.
- Spillway and roadway crossing were enlarged ca. 2000. Two 20’ wide fuse plugs added at this time.

Hydraulics

- Freeboard: approx. 7’
- PMF: 6,300 CFS and will overtop the embankment
- Normal maximum water surface elevation (3,904.6 ft)

Field observations

- Minimal riprap on upstream slope for wave protection.
- Steep and varied slopes on the downstream face.
- Water flowing out of the downstream toe for about 15’ on either side of the spillway.
  - Left side was approx. double the right side. Estimated flow rate to be approx. 50 and 25 GPM, respectively.
  - Reportedly, the seepage changes with reservoir elevation.
  - No other areas of seepage observed.
- History of sinkhole development at spillway apron.
  - Two sinkholes have been observed and repaired since 2018.
  - Sinkhole occurrence has become more frequent over the last 10 years.
  - Additional sinkhole has developed adjacent to sinkhole previously repaired with CDF. Was not observable during field inspection because of reservoir elevation.
  - Tracer dye test showed direct connection between sinkholes and seepage at the toe in less than 1 hour.
- In July 2022, observed water flowing into the upstream slope in the area where log boom anchors were recently installed on the right side of the spillway.
  - Could hear gurgling water and see a small whirlpool.
- During July 2022 field inspection, there was a noticeable hydrogen sulfide odor present at the downstream toe. Unsure whether this was from the wastewater treatment plant effluent line that discharges at the downstream portion of the spillway or from something else that might indicate water coming from the reservoir.

**Performance Monitoring Information**

- No instrumentation installed.
- Visual observations by dam owner.
- IDWR inspection every two years.

Potential Interim Risk Reduction Measures Potential Dam Safety Management Actions	
Inspections	<ul style="list-style-type: none"> <li>● Perform and document at least weekly (or daily during elevated reservoir elevation) visual inspections.</li> </ul>
Surveillance and Monitoring	<ul style="list-style-type: none"> <li>● Install seepage weirs.</li> <li>● Install remote reservoir level gauge and rate of change alarm.</li> <li>● Install piezometers upstream and downstream of the core wall.</li> </ul>
EAP	<ul style="list-style-type: none"> <li>● Install early warning system and include notification sign at Hwy 95.</li> <li>● Update and exercise EAP.</li> </ul>
Follow-Up Studies	<ul style="list-style-type: none"> <li>● Study to better evaluate consequences.</li> <li>● More precise breach/flood modeling.</li> <li>● Geotechnical investigation in the embankment.</li> </ul>
Others	<ul style="list-style-type: none"> <li>● Remove vegetation from the toe and the groins.</li> <li>● Stockpile material – sand and gravel.</li> <li>● Install a downstream filter and toe drain.</li> <li>● Pressure grouting program.</li> <li>● Upstream geomembrane liner.</li> <li>● Sheet pile wall or slurry wall to eliminate the core wall.</li> </ul>

Life Safety Consequences	
Consequence Description	<p>Highway 95</p> <ul style="list-style-type: none"> <li>- First Hwy 95 crossing approx. 1.5 miles downstream.</li> <li>- Crosses back and forth in the canyon for about 12 miles.</li> <li>- Steep narrow canyon. Minimal areas for cars to turn around.</li> <li>- Two RR bridge crossings approx. 5 and 6 miles downstream.</li> <li>- ITD traffic count: 3,080 vehicles per day, average</li> </ul> <p>No houses in the inundation area until Culdesac and Lapwai.</p> <p>Culdesac</p> <ul style="list-style-type: none"> <li>- Population ~375 (2020)</li> <li>- Creek runs in levee through town.</li> <li>- Approx. 40' bottom width and substantial banks.</li> </ul> <p>Lapwai</p> <ul style="list-style-type: none"> <li>- Population ~1,300 (2020)</li> <li>- Creek still channelized in levee but smaller.</li> <li>- HCOM shows floodwave exceeds the banks.</li> <li>- Elementary school</li> </ul> <p>HCOM analysis says about <b>200 nighttime PAR</b>. Sounded approximately right to workshop participants.</p> <p>Floodwaters in January 2022 washed out NB lane of Hwy 95 approx. 4 miles south of Lapwai.</p>

<b>Winchester Dam</b>	
<b>PFM Information</b>	
Structure	Winchester Dam
Structure Type	Embankment Dam
Loading Condition	Normal
PFM Failure Type	Internal Erosion
Location(s)	Spillway/Embankment Interface
PFM Source	July 2022 SQRA
PFM Source Date	July 26, 2022
<b>PFM Description</b>	
PFM Number	2N
PFM Title	Internal erosion along spillway
PFM Description	<p>Failure process:</p> <ol style="list-style-type: none"> <li>1. Reservoir is at normal maximum water surface elevation (3,904.6 ft)</li> <li>2. Seepage through granular layer under the spillway slab initiates internal erosion at the downstream toe of the spillway into the plunge pool.</li> <li>3. Backwards erosion piping progresses under the spillway slab until it reaches the concrete core wall.</li> <li>4. Internal erosion and seepage continue unnoticed.</li> <li>5. Internal erosion progresses backwards enlarging the seepage pathways and increasing the hydraulic gradient through the embankment.</li> <li>6. Seepage continues to erode material from beneath the spillway slab.</li> <li>7. Sections of the spillway collapse into the void created by the seepage pathway.</li> <li>8. Flows through the spillway erode the slope downstream of the core wall.</li> <li>9. The concrete core wall topples downstream due to loss of support on the downstream side.</li> <li>10. Embankment material continues to collapse until the crest is breached.</li> <li>11. Uncontrolled release of the reservoir occurs through the crest breach.</li> </ol>
<b>Supporting Details</b>	
<p>Embankment</p> <ul style="list-style-type: none"> <li>● Dimensions                             <ul style="list-style-type: none"> <li>● Crest width: approximately 140 feet</li> <li>● Upstream slope: approximately 3:1 (H:V)</li> <li>● Downstream slope: varies from 1.5:1 to approx. 1:1 (H:V)</li> <li>● Max height: 40 feet</li> <li>● Hydraulic height: 36 feet (per IDWR inspection reports)</li> </ul> </li> <li>● Two-lane road across crest</li> <li>● Concrete core wall                             <ul style="list-style-type: none"> <li>● 1910 drawings show it was notched into bedrock for the full width of the dam.</li> <li>● Design drawings show it tapering at a 2':12' slope</li> <li>● Damaged and "repaired" during 1948 overtopping.</li> </ul> </li> <li>● Construction history                             <ul style="list-style-type: none"> <li>● Originally constructed in 1910 by Craig Mountain Lumber Company</li> <li>● 1948: Original timber spillway between road embankment and core wall failed, causing</li> </ul> </li> </ul>	

<ul style="list-style-type: none"> <li>• Could hear gurgling water and see a small whirlpool.</li> <li>• During July 2022 field inspection, there was a noticeable hydrogen sulfide odor present at the downstream toe. Unsure whether this was from the wastewater treatment plant effluent line that discharges at the downstream portion of the spillway or from something else that might indicate water coming from the reservoir.</li> <li>• Observed cracking in the spillway walls at the location of the cutoff wall.</li> <li>• Observed longitudinal crack in the spillway slab just after the transition to the steep chute section.</li> <li>• Seepage observed coming into the spillway through construction joints in the spillway walls of the box culvert.             <ul style="list-style-type: none"> <li>• Transverse cracking in the roadway asphalt are located approximately above the leakage within the box culvert.</li> <li>• These cracks reportedly expand during the winter.</li> </ul> </li> </ul>
<b>Performance Monitoring Information</b>
<ul style="list-style-type: none"> <li>• No instrumentation installed.</li> <li>• Visual observations by dam owner.</li> <li>• IDWR inspection every two years.</li> </ul>

<b>Evaluation Factors</b>	
<b>Adverse (More Likely)</b>	<b>Favorable (Less Likely)</b>
Current history of seepage, sinkholes, and material loss.	Very wide crest.
Sinkhole development has become more frequent.	
Documentation from 1948 overtopping that the core wall cracked.	Core wall is present.
No instrumentation.	During 1948 overtopping, the core wall did not completely topple.
No way to completely drain the reservoir.	Relatively low head.
Spillway gate is manually operated.	
Once the failure mode starts happening, intervention would be difficult.	This failure mode would take a long time to develop.
Repair effectiveness is questionable.	Repairs to sinkholes have been made in the past.
Upstream end of spillway has a 18" cutoff wall.	Regular observations by trained personnel. Operations personnel are aware of the past issues and the need to remain aware.
Tracer dye test showed direct connection between sinkholes and seepage at the toe in less than 1 hour.	No evidence of spillway settlement (vertical offsets at cracks, etc.)
Gravel under upstream portion of spillway provides direct hydraulic connection between the reservoir and the dam crest.	Instability and erosion may be limited to just the width of the spillway.
Observed cracking in spillway slab and walls.	Slopes look generally fine with no obvious signs of settlement.
Seepage was observed into the spillway (in the box culvert).	
Plunge pool masks any evidence of material migration under the spillway.	
Spillway slab will act as a roof.	

<b>Life Safety Consequences</b>	
<b>Consequence Description</b>	<p>Highway 95</p> <ul style="list-style-type: none"> <li>- First Hwy 95 crossing approx. 1.5 miles downstream.</li> <li>- Crosses back and forth in the canyon for about 12 miles.</li> <li>- Steep narrow canyon. Minimal areas for cars to turn around.</li> <li>- Two RR bridge crossings approx. 5 and 6 miles downstream.</li> <li>- ITD traffic count: 3,080 vehicles per day, average (</li> </ul> <p>No houses in the inundation area until Culdesac and Lapwai.</p> <p>Culdesac</p> <ul style="list-style-type: none"> <li>- Population ~375 (2020)</li> <li>- Creek runs in levee through town.</li> <li>- Approx. 40' bottom width and substantial banks.</li> </ul> <p>Lapwai</p> <ul style="list-style-type: none"> <li>- Population ~1,300 (2020)</li> <li>- Creek still channelized in levee but smaller.</li> <li>- HCOM shows floodwave exceeds the banks.</li> <li>- Elementary school</li> </ul> <p>HCOM analysis says about <b>200 nighttime PAR</b>. Sounded approximately right to workshop participants.</p> <p>Floodwaters in January 2022 washed out NB lane of Hwy 95 approx. 4 miles south of Lapwai.</p>
<b>Estimated PAR</b>	<p>Cities: 200 PAR</p> <p>On Hwy 95 in canyon: 150-300 PAR (100-200 cars and assuming 1.5 people/car)</p> <p>Total estimated PAR: 350-500</p>
<b>Inundation Characteristics</b>	<p>Depths in canyon 6-10 feet</p> <p>Depths in Culdesac 3-6 feet within channel, much less outside.</p> <p>DVs' in the canyon up to 50</p> <p>DV's in Culdesac and Lapwai show up to 50 within the channel and up to 4 outside the banks.</p>
<b>Warning/Evacuation Challenges</b>	<p>HCOM shows arrival time to Hwy 95 between 0.5 to 1 hour. Approximately 2 more hours to reach Culdesac.</p> <p>Minimal cell signal up the canyon and at the dam.</p> <p>Hwy 95 is the only way north/south and there are minimal places to turn around.</p>

<b>Winchester Dam</b>	
<b>PFM Information</b>	
Structure	Winchester Dam
Structure Type	Embankment Dam
Loading Condition	Flood
PFM Failure Type	Embankment Overtopping
Location(s)	Embankment
PFM Source	July 2022 SQRA
PFM Source Date	July 26, 2022
<b>PFM Description</b>	
PFM Number	3F
PFM Title	Half PMF overtopping
PFM Description	<p>Failure process:</p> <ol style="list-style-type: none"> <li>1. Reservoir is at normal maximum water surface elevation (3,904.6 ft)</li> <li>2. Reservoir experiences flows up to ½ of the PMF (3,150 CFS)</li> <li>3. Reservoir water surface elevation rises above the fuse plug crests and causes them to wash out.</li> <li>4. Reservoir water surface elevation rises and begins overtopping the embankment.</li> <li>5. Intervention methods are unsuccessful.</li> <li>6. Overtopping flows cause erosion on the downstream embankment face, causes the concrete core wall to collapse, and leads to uncontrolled reservoir release</li> </ol>
<b>Supporting Details</b>	
<p>Embankment</p> <ul style="list-style-type: none"> <li>● Dimensions                             <ul style="list-style-type: none"> <li>● Crest width: approximately 140 feet</li> <li>● Upstream slope: approximately 3:1 (H:V)</li> <li>● Downstream slope: varies from 1.5:1 to approx. 1:1 (H:V)</li> <li>● Max height: 40 feet</li> <li>● Hydraulic height: 36 feet (per IDWR inspection reports)</li> </ul> </li> <li>● Two-lane road across crest</li> <li>● Concrete core wall                             <ul style="list-style-type: none"> <li>● 1910 drawings show it was notched into bedrock for the full width of the dam.</li> <li>● Design drawings show it tapering at a 1:6 slope.</li> <li>● Damaged and “repaired” during 1948 overtopping.</li> </ul> </li> <li>● Construction history                             <ul style="list-style-type: none"> <li>● Originally constructed in 1910 by Craig Mountain Lumber Company</li> <li>● 1948: Original timber spillway between road embankment and core wall failed, causing overtopping of the core wall and washout of a substantial portion of the downstream fill all the way to the streambed elevation. The core wall was observed to have “bulged” downstream, cracked, and water was seen flowing out from underneath. Emergency repairs were made including using two steel cables with turnbuckles to attempt to pull the bulge back upstream. Material was bulldozed from the adjacent hillside to fill in the downstream slope. (1948 IDWR Special Inspection)</li> <li>● Original Low-Level Outlet leaked from the beginning and was plugged. No replacement was installed.</li> </ul> </li> </ul>	

Performance Monitoring Information	
<ul style="list-style-type: none"> <li>No instrumentation installed.</li> <li>Visual observations by dam owner.</li> <li>IDWR inspection every two years.</li> </ul>	
Evaluation Factors	
Adverse (More Likely)	Favorable (Less Likely)
No instrumentation.	Very wide crest.
No way to completely drain the reservoir.	Core wall is present.
Documentation from 1948 overtopping that the core wall cracked.	During 1948 overtopping, the core wall did not completely topple.
Dependent on fuse plugs to properly operate to help reduce overtopping.	Regular observations by trained personnel. Operations personnel are aware of the past issues and the need to remain aware.
Half PMF overtopping: 2' for 24-36 hours.	Overtopping duration may not be long enough to lead to complete failure.
Spillway notch through the core wall creates a concentrated area for overtopping flow.	
Spillway gate is manually operated.	Dam crest is paved.
Once the failure mode starts happening, intervention would be difficult.	Downstream slope is riprapped.
Spillway walls downstream of the roadway embankment can be overtopped without overtopping the roadway.	

Failure Likelihood Summary	
Failure Likelihood	<p><b>Initial Estimate</b>  <math>10^{-4}</math> to <math>10^{-5}</math> (Category 5): 2  <math>10^{-5}</math> to <math>10^{-6}</math> (Category 6): 5</p> <p><b>Final Estimate</b>  <math>3.16 \times 10^{-4}</math> to <math>3.16 \times 10^{-5}</math> (1/100,000): consensus</p>
Justification	<p>Category 5: Riprap may not be large enough to withstand 2' overtopping for 24-36 hrs. High hazard dams are supposed to be able to pass a half PMF, which is a known defect, but the evidence is weighted towards less likely.</p> <p>Category 6: Very wide (and paved) crest. Downstream slope is riprapped. Fuse plugs may help moderate the beginning of the flood. Core wall may help slow the erosion.</p>
Confidence	High
Rationale	Direct evidence of failure mode. Does not pass the half PMF without overtopping, which is a known defect.

<p><b>Inundation Characteristics</b></p>	<p>Depths in canyon 6-10 feet                  Depths in Culdesac 3-6 feet within channel, much less outside.                  DVs' in the canyon up to 50                  DV's in Culdesac and Lapwai show up to 50 within the channel and up to 4 outside the banks.</p>
<p><b>Warning/Evacuation Challenges</b></p>	<p>HCOM shows arrival time to Hwy 95 between 0.5 to 1 hour. Approximately 2 more hours to reach Culdesac.                  Minimal cell signal up the canyon and at the dam.                  Hwy 95 is the only way north/south and there are minimal places to turn around.</p>
<p><b>Potential Life Loss</b></p>	<p>Fatality rate for towns/surrounding: assume 10%                  Fatality rate for highway traffic: assume 50%</p> <p>PLL                  Towns/surrounding: <math>200 \times 10\% = 20</math>                  Highway: <math>350-500 \times 50\% = 175-250</math>                  Total: 200+ PLL</p> <p>Therefore, <b>100-1,000 bin</b></p>
<p><b>Justification</b></p>	<p>Culdesac and Lapwai have small populations and the majority of the floodwave would be contained in the levee channels through the towns. Inundation maps show some limited amount of inundation outside the levees. Hwy 95 canyon between Winchester and Culdesac is very steep and narrow with minimal areas for cars to turn around. Floodwave would take between 1 and 3 hours to reach and move through the canyon.</p> <p>During flood: no justification for higher PLL and not likely to reduce below 100.</p> <p>During fuse plug failure: justification to center a bin on 1 PLL (based on previous times when fuse plugs have failed). So 0.316-3.16</p>
<p><b>Confidence</b></p>	<p>Low</p>
<p><b>Rationale</b></p>	<p>Many unknowns related to population numbers, especially on the highway.                  Many unknowns related to flood routing, topography, and debris plugging.</p>

<ul style="list-style-type: none"> <li>• Normal maximum water surface elevation (3,904.6 ft)</li> <li>• Drainage area is 13 square miles (Phase 1 Report).</li> <li>• Estimated flow through single fuse plug bay is 400 CFS at 40" deep.</li> </ul> <p>Field observations</p> <ul style="list-style-type: none"> <li>• Left fuse plug had upstream bulging CMU blocks.</li> </ul>
<b>Performance Monitoring Information</b>
<ul style="list-style-type: none"> <li>• No instrumentation installed.</li> <li>• Visual observations by dam owner.</li> <li>• IDWR inspection every two years.</li> </ul>

<b>Evaluation Factors</b>	
<b>Adverse (More Likely)</b>	<b>Favorable (Less Likely)</b>
No instrumentation.	Regular observations by trained personnel. Operations personnel are aware of the past issues and the need to remain aware.
Spillway gate is manually operated.	Spillway is designed for this flow capacity.
Spillway gate has limited capacity.	Duration would be short and flows would decrease over time.
Dependent on fuse plugs to properly operate to help reduce overtopping.	Flows would only continue until reservoir reaches spillway invert elevation.
Once the failure mode starts happening, intervention would be difficult.	
Fuse plugs have been washed out twice in the past.	
Preventing overtopping requires significant effort and forecasting from operations personnel.	
Could happen at any time and would happen quickly.	
Lake surface commonly freezes over. Ice pack and wind could initiate this failure mode.	

	<p>HCOM analysis says about <b>200 nighttime PAR</b>. Sounded approximately right to workshop participants.</p> <p>Floodwaters in January 2022 washed out NB lane of Hwy 95 approx. 4 miles south of Lapwai.</p>
Estimated PAR	<p>Cities: 200 PAR On Hwy 95 in canyon: 150-300 PAR (100-200 cars and assuming 1.5 people/car)</p> <p>Total estimated PAR: 350-500</p>
Inundation Characteristics	<p>Depths in canyon 6-10 feet Depths in Culdesac 3-6 feet within channel, much less outside. DVs' in the canyon up to 50 DV's in Culdesac and Lapwai show up to 50 within the channel and up to 4 outside the banks.</p>
Warning/Evacuation Challenges	<p>HCOM shows arrival time to Hwy 95 between 0.5 to 1 hour. Approximately 2 more hours to reach Culdesac. Minimal cell signal up the canyon and at the dam. Hwy 95 is the only way north/south and there are minimal places to turn around.</p>
Potential Life Loss	<p>Fatality rate for towns/surrounding: assume 10% Fatality rate for highway traffic: assume 50%</p> <p>PLL Towns/surrounding: <math>200 \times 10\% = 20</math> Highway: <math>350-500 \times 50\% = 175-250</math> Total: 200+ PLL</p> <p>Therefore, <b>100-1,000 bin</b></p>
Justification	<p>Culdesac and Lapwai have small populations and the majority of the floodwave would be contained in the levee channels through the towns. Inundation maps show some limited amount of inundation outside the levees. Hwy 95 canyon between Winchester and Culdesac is very steep and narrow with minimal areas for cars to turn around. Floodwave would take between 1 and 3 hours to reach and move through the canyon.</p> <p>During flood: no justification for higher PLL and not likely to reduce below 100.</p> <p>During fuse plug failure: justification to center a bin on 1 PLL (based on previous times when fuse plugs have failed). So 0.316-3.16</p>
Confidence	Low
Rationale	<p>Many unknowns related to population numbers, especially on the highway. Many unknowns related to flood routing, topography, and debris plugging.</p>

# Exhibit A

**CITY OF WINCHESTER**  
**PO BOX 245**  
**WINCHESTER, ID 83555**  
**(208) 924-5358**  
[winchcty@connectwireless.us](mailto:winchcty@connectwireless.us)

**22 January 2026**

**Idaho State Legislature**  
**State Capitol**  
**700 W Jefferson St**  
**Boise, ID 83720**

**Regarding Repair/Replacement of Winchester Lake Dam**

Dear Members of the Idaho State Legislature,

I am writing to follow up on our previous correspondence regarding the urgent need for repair or replacement of the Winchester Lake dam. As a concerned member of the Winchester community, I must emphasize the critical importance of this project for our residents, local businesses, and the vitality of Winchester Lake State Park.

With the legislature now in session, we recognize that you are facing a particularly challenging year, marked by a tight budget and necessary budget cuts. We are all aware of the difficult decisions that must be made. However, it is important to remember that anything that hurts our local economies has a trickle effect, ultimately impacting the state as a whole and the areas surrounding us.

The deteriorating condition of the dam has resulted in lowered water levels, which has had a profound effect on our community. Winchester Lake is not only a centerpiece of our recreational life but also a vital economic engine for local businesses. Restaurants, shops, outfitters, and lodging providers depend on the steady flow of visitors drawn to the lake and the state park. With diminished water levels, we have witnessed a significant decline in

tourism, directly impacting these businesses. Many have reported reduced revenue, staff cutbacks, and even closures, which in turn affects employment and the overall economic health of Winchester.

Recent data and reports highlight the severity of this decline. According to local sources, the drop in water levels has led to a noticeable reduction in the number of visitors to Winchester Lake State Park, resulting in fewer bookings at campgrounds and lower sales for local retailers and restaurants. The Idaho Department of Fish and Game has noted that modifications to the dam have caused lake levels to drop by approximately three feet, making docks less usable and further discouraging tourism and recreation. This downturn in tourism has a direct and measurable impact on the revenue of local businesses, with some reporting losses significant enough to threaten their continued operation.

This economic hardship does not remain isolated. When local businesses struggle, the effects ripple outward—reducing tax revenues, limiting community investments, and weakening the broader regional economy. The loss of tourism and commerce in Winchester inevitably impacts neighboring towns and the state's financial well-being.

Winchester Lake State Park—a valued destination for outdoor enthusiasts, families, and tourists—relies on the dam to maintain healthy and vibrant conditions for fishing, boating, camping, and wildlife observation. Without immediate action to repair or replace the dam, the park risks losing its appeal and its ability to provide economic and recreational benefits to the region.

It is encouraging to know that the Idaho Fish and Game Department has been granted spending authority in the range of \$2.5 to \$3 million for the completion of this much-needed project. However, I want to stress that receiving the actual budget dollars is essential to move forward; the authority alone is not enough. The sooner these funds are allocated and made available, the sooner our community can begin to recover and thrive once more.

I respectfully urge the legislature to expedite funding and support for the Winchester Lake dam project. Timely action will not only restore the lake's

water levels but also revitalize tourism, safeguard local businesses, and preserve the unique character of Winchester and its surroundings.

Thank you for your attention to this matter and for your continued commitment to the well-being of Idaho's communities. We look forward to your response and to working together to secure a vibrant future for Winchester.

Sincerely,

# Exhibit B



February 23, 2026

Idaho Department Fish & Game  
Attn: Tim Eddy, Bureau of Engineering  
PO Box 25  
Boise, ID 83707-0025

COPY

Re: Winchester Dam (aka Lapwei Lake)  
Spillway Modification & Geomembrane Liner

IDWR File: 85-2020  
NATDAM: ID06213

Dear Mr. Eddy,

Thank you for providing the Idaho Department of Water Resources (IDWR) Dam Safety Program the final design package that addresses the design modifications to the referenced embankment dam. We are pleased to inform you that IDWR has reviewed and approved the design documents prepared by your engineer, Mark Merklein, P.E. consisting of the *Design Documentation Report, Design Drawings, and Technical Specifications*. Based on our design review, we understand construction will consist of modification to the spillway to improve flow capacity, the addition of a geomembrane liner on the upstream slope of the earthen dam to reduce leakage, and the extension of the existing siphon pipe deeper into the reservoir. Cover sheets bearing signed approval dated January 28, 2026 for all but the design drawings are included herewith; the latter including all pages that are included in the Volume 2—Construction Drawings.

Note that IDWR Dam Safety approval for construction is authorized subject to each of the four (4) conditions:

- 1) The *Engineer in Responsible Charge* (Engineer) is Mr. Mark Merklein, P.E. who is responsible for supervising construction in accordance with the approved design. If this information is incorrect, or another licensed engineer has assumed supervisory duties, please immediately inform us as to whom this obligation has been assigned,
- 2) Should significant revision to the approved design plans or specifications become necessary during construction, please notify this office in writing prior to implementing the changes. Engineers from this office are available to approve changes in the field provided such revisions are consistent with accepted engineering standards and construction practices,
- 3) Upon completion of construction the Engineer shall certify that the work was performed in accordance with the approved design. The letter of completion shall be accompanied by a summary of all field and laboratory tests deemed by the Engineer necessary to certify a satisfactory completion of construction,
- 4) Two sets of as-constructed drawings signed by the Engineer (one printed & one set digital format) shall be provided within 60 days of completion. If no changes to the approved design occurred during construction, please make certain this fact is included in the letter of completion.

IDWR Dam Safety cannot accept the work as complete until the above listed conditions are satisfied. Should you have any questions, please call me at (208) 287-4927, or you may contact Michelle Richman in Coeur d'Alene @ (208) 762-2800.

Sincerely,  
  
John Falk, P.E.  
Dam Safety Program Manager

Cc: Erik Boe – IDWR Resource Protection  
Mark Merklein – McMillen Engineering  
David White – North Idaho Region Parks Manager  
Enc: Design Drawings, Technical Specifications, and Design Documentation Report



IN THE MATTER OF THE REGIONAL WATER  
SUSTAINABILITY PRIORITY LIST

RESOLUTION TO UPDATE THE LIST, AWARD  
FUNDING, AND ADOPT TERMS &  
CONDITIONS FOR THE WINCHESTER DAM  
REPAIR PROJECT

1 WHEREAS, in July 2021 the IWRB adopted an initial Regional Water Sustainability Priority List to  
2 help guide the Idaho Water Resource Board’s (IWRB’s) spending for large, regional water sustainability  
3 projects from ARPA funds, state general funds, or other applicable sources. The IWRB also, in January  
4 2022, adopted threshold criteria indicating that a project must help achieve water supply sustainability  
5 on a regional, basin-wide, or statewide basis to be included on the Regional Water Sustainability Priority  
6 List; and

7  
8 WHEREAS, on May 23<sup>rd</sup>, 2025, the IWRB adopted Resolution No. 17-2025, updating criteria for the  
9 inclusion of projects on the Regional Water Sustainability Priority List. The criteria include a process for  
10 how projects can be added, types of information required to be submitted in requests, considerations for  
11 inclusion, and a process for removing projects from the list; and

12  
13 WHEREAS, Idaho Code § 42-1760 authorizes the Idaho Water Resource Board (IWRB) to expend,  
14 loan, or grant money from the Water Management Account for water projects that conserve or increase  
15 water supply, improve drought resiliency, address water sustainability, or support flood management;  
16 and

17  
18 WHEREAS, the Idaho Department of Fish and Game (IDFG) submitted to the IWRB for its  
19 Winchester Dam Repair Project (Project) to be added to the Regional Water Sustainability Priority List;  
20 and

21  
22 WHEREAS, the IDFG presented the proposal to the IWRB Finance Committee on March 8, 2026,  
23 requesting funding for approximately 1/3 (one third) of the total Project costs estimated to be \$3,600,000  
24 with a target completion date of July 2028, and a maximum reimbursement amount from IWRB of  
25 \$1,000,000; and

26  
27 WHEREAS, on March 8th, 2026, the Finance Committee recommended that the IWRB add the  
28 Winchester Dam Repair Project to the Regional Water Sustainability List and approve the requested funds;  
29 and

30  
31 WHEREAS, the IWRB has directed IWRB staff to work with project sponsors to develop  
32 appropriate contract terms and conditions to be brought back to the IWRB for approval; and

33  
34 WHEREAS, IWRB staff and IDFG staff have reviewed the proposed Terms and Conditions for the  
35 award included in Attachment A.

36  
37 NOW, THEREFORE BE IT RESOLVED that the IWRB approves adding the Winchester Dam Repair  
38 Project to the Regional Water Sustainability Program Priority List.

39

40 NOW, THEREFORE BE IT FURTHER RESOLVED that the IWRB approves \$1,000,000 in Regional  
41 Water Sustainability funding from the Water Management Account to IDFG for the Project.

42  
43 NOW, THEREFORE BE IT FURTHER RESOLVED that the IWRB approves the Terms and Conditions  
44 for the IDFG's Project as specified in Attachment A to this resolution.

45  
46 BE IT FURTHER RESOLVED that the contract for this project will also contain standard IWRB  
47 contract conditions and other project-specific Terms and Conditions not specified in this resolution.

DATED this 21<sup>st</sup> day of May 2026.

\_\_\_\_\_  
JEFF RAYBOULD, Chairman  
Idaho Water Resource Board

ATTEST \_\_\_\_\_  
DEAN STEVENSON, Secretary

# ATTACHMENT A: Terms & Conditions

## Winchester Dam Repair Project

This project will rehabilitate Winchester Dam by adding capacity to the spillway. This will be done by creating an ogee crested weir spanning the entire length of the spillway and raising the spillway chute walls to contain the required flows. In addition, the upstream surface will be outfitted with a geomembrane liner system to deter seepage through the dam surface and reduce the amount of water at the toe of the dam entering Lapwai Creek. The dam is owned by the Idaho Department of Fish and Game (IDFG) and the surrounding property is the site of Winchester Lake State Park. The dam is rated as a high hazard dam by Idaho Department of Water Resources and because of the needed repairs, Risk Management is conditionally insuring it with the lowering of the water by 40” and until the spillway repairs are made.

The Idaho Department of Fish and Game will obtain all needed permits, approvals, certifications, and real estate interests needed to complete the project. Construction is scheduled to begin in July 2027 and is projected to be completed by July 2028 – the project timeline ranges from 9 months to 12 months, depending on supply chain and sourcing of appropriate materials.

### **Invoice-Reimbursement Contract and Proposed Terms & Conditions**

- This is an invoice-reimbursement not to exceed Contract where the IWRB has approved funding of \$1,000,000. The total cost for the project is estimated at \$3,600,000. The Board will reimburse the Sponsor an amount equal to 1/3 (one third) of the approved receipts or invoices, less a 10% retainage until the final invoice and Certificate of Project Completion is provided at the end of the project. The Sponsor shall pay the remainder of the project costs. The Board will not reimburse the Sponsor for expenses incurred prior to the fund award date (May 21, 2026).
- When requested by the IWRB, IDFG will provide a monthly progress report to the Contract Manager. The progress report shall include at a minimum:
  - Updated schedule to completion
  - Issues encountered in the reporting period
  - Final cost forecasts where applicable
  - Up to date project budget
- The Contractor shall provide with the final invoice a Certificate of Project Completion and a financial summary of the Project’s costs with a detailed list of the type and amount of funds used to pay for the Project. The financial summary shall include the following:
  - Total final cost of the Project based on expenditures.
  - List all funding sources and the amount used on any aspect of the Project.
  - If a Federal or State grant was awarded for any portion of the Project, include the amount awarded.

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Mary Condon  
**Date:** May 8, 2026  
**Subject:** Mountain Home Plateau Aquifer Regional Water Sustainability Program

---

**REQUESTED ACTION:** Consider Funding

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## **BACKGROUND:**

Elmore County is requesting support, resources, and funding for several initiatives and projects aimed at stabilizing the aquifer through the Mountain Home Plateau Aquifer Stabilization Program under the Regional Water Sustainability Project Priority List.

On March 22, 2026, the Idaho Water Resource Board (IWRB) placed the Mountain Home Plateau Aquifer Stabilization Program on the Regional Water Sustainability Project Priority List with an earmark of \$8,000,000 in funding through Resolution No. 11-2026. The earmarked funding is not authorized to be spent without further approval from the IWRB.

A representative for Elmore County will provide a presentation on their funding request. The formal request is included in your materials. The funding request is summarized below.

## **PROPOSAL:**

- 2.1 South Fork (SF) Boise River Diversion Project - Final Design & NEPA: Advance SF Boise River Diversion Project to 90% design and build upon existing pre-NEPA work and finish environmental review and permitting, including Environmental Assessment and coordination with federal and cooperating agencies. This added source of surface water can be used to both supplement the current demand for surface water for irrigation from the Mountain Home Irrigation District, as well as off season recharge efforts.
- 2.2 MHID Canal System Alternatives Study: Further evaluate canal system infrastructure for improvement and efficiency options, including any canal system losses or deteriorating conditions.
- 2.3 Snake River Pump Station and Pipeline Alternatives Study: Analyze options for delivering the permitted Snake River water right from alternative intake locations and pipeline configurations for delivery. Securing and delivering additional surface water is vital to the aquifer stabilization effort to reduce groundwater pumping and provide recharge.

In addition to the above projects, Elmore County will actively pursue and participate in public outreach, grant and funding opportunity coordination, and long-term oversight and continuance of the stabilization effort requires a governing agency with the capacity and legal means to continue the work.

## **BENEFITS:**

Stabilizing the declining aquifer levels secures the future for the residents of Mountain Home, the Mountain Home AFB, and the many other surrounding communities that rely on the Mountain Home Plateau Aquifer. Securing additional surface water and restoring aquifer

levels will benefit the agricultural community, a vital economic driver for the region, and provide sufficient water supply to support new industrial and commercial development. Stabilization of the water supply is necessary before growth can begin.

The estimated cost in realizing the utilization of the SF Boise River and Snake River surface water and eventual stabilization of the aquifer in addition to the efforts outlined above is more than \$100 million dollars. Cooperation with other natural resource agencies and stakeholder engagement for additional funding and opportunities is imperative to meet the long-term goal.

**FINANCIAL ANALYSIS:**

The proposed project’s total costs are estimated at \$1,469,800. Elmore County is requesting the IWRB cover 75% of the proposed project costs for a total of \$1,101,150. Elmore County is also requesting that the IWRB consider past funds expended by Elmore County, Mountain Home Irrigation District (MHID), and the City of Mountain Home for past aquifer stabilization projects in the amount of \$3,378,700 as cost share. The total estimated costs of the proposed projects are outlined below:

<u>Estimated Costs</u>	<u>Total Project Cost</u>	<u>IWRB Portion Cost</u>
SF Boise River – 90% Design & NEPA	\$ 876,400	\$ 507,750
MHID Canal System Alternatives Study	\$ 158,400	\$ 158,400
Snake River Pump Station & Pipeline Alternatives Study	\$ 435,000	\$435,000
<b>Total Project Costs</b>	<b>\$1,469,800</b>	<b>\$ 1,101,150</b>

The total cost share request from the IWRB is \$1,101,150.

**RECOMMENDATION:**

The funds requested will be used to pursue each of the above-mentioned endeavors as quickly as possible. The county is committed to moving quickly to stabilize the aquifer as each of these projects are already underway.

The projects meet the qualification criteria to address a regional water sustainability issue head on, and the proposed projects are consistent with the goals established by the Board in the Idaho State Water Plan. Staff recommend approval of the funding request, for the total amount of \$1,101,150.

**Attachment(s):**

- *Elmore County Board of Commissioners “Mountain Home Plateau Aquifer Regional Water Sustainability Program Funding Request”*

# IWRB FINANCE COMMITTEE FUNDING REQUEST

Date: May 1, 2026  
To: Idaho Water Resource Board Finance Committee  
From: Elmore County Board of Commissioners  
Subject: **Funding Request for the Mountain Home Plateau Aquifer Regional Water Sustainability Program**

---

## Problem Statement

The Mountain Home Plateau Aquifer is experiencing a long-term groundwater deficit estimated to be 30-40,000 acre-feet per year, driven by groundwater withdrawals that significantly exceed natural recharge. Current use is estimated between 60,000 to 80,000 acre-feet annually, while recharge is approximately half of that, resulting in continued depletion of stored groundwater and declining water levels across the region. (SPF 2017)

This deficit has persisted for decades and has resulted in measurable declines in aquifer levels, increased pumping costs, and growing risk to agricultural, municipal, and industrial water supplies. Without intervention, the region faces the likelihood of regulatory curtailment, loss of water availability, and significant economic impacts.

Stabilizing the aquifer will require a shift in how water is supplied and managed across the region, including development of new supply sources and more efficient use of existing systems.

## Proposed Approach

To address this deficit, Elmore County proposes a coordinated strategy centered on securing additional surface water supplies and reducing reliance on groundwater. This approach focuses on developing water from both the South Fork Boise River and the Snake River, and using that supply to offset groundwater pumping through aquifer recharge, direct surface water delivery, and soft conversions from groundwater to surface water use, supported by targeted improvements to water delivery efficiency. By integrating new surface water supply with system optimization and reduced groundwater demand, this effort is intended to stabilize the aquifer, improve long-term water reliability, and support continued agricultural, municipal, and economic sustainability in the region. These improvements will also enhance water security for the Mountain Home Air Force Base, supporting mission readiness and contributing to national defense.

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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## **Supporting Actions Being Pursued by Elmore County**

### **a. District Formation**

Elmore County is actively advancing district formation as an ongoing effort to establish a long-term governance and funding framework to support the operation, maintenance, and financing of water infrastructure developed to address the Mountain Home Plateau Aquifer deficit.

Consistent with guidance from the Idaho Water Resource Board, the County recognizes that long-term ownership and operation of large-scale water projects will be most appropriately carried out by a special purpose district rather than the County itself. The County anticipates that, at the appropriate time, project assets and associated water rights would be transferred to one or more districts whose members directly benefit from the projects.

Ongoing work includes a comprehensive evaluation of existing Idaho statutory frameworks, focusing initially on groundwater districts and irrigation districts, to determine their appropriateness to the Mountain Home Plateau generally and the individual projects and their benefited water users specifically. Particular attention will be given to limitations within existing frameworks, especially regarding cost allocation, to ensure financial responsibility is borne equitably by those benefiting from the broader regional benefits of aquifer stabilization. The County also intends to evaluate how the development and implementation of a groundwater management plan could inform this process.

The County is evaluating alternative governance models, including potential modifications to existing statutes or development of a new district type capable of equitably distributing costs among all beneficiaries, including agricultural, municipal, industrial, and domestic users. This evaluation will incorporate historical efforts in the region, lessons learned from other basins, and consideration of ongoing groundwater model development to better define areas of benefit and inform cost allocation strategies.

Legal counsel and financial professionals are being engaged to analyze statutory pathways and develop recommendations. The County plans to coordinate with the Idaho Water Users Association, and continue to coordinate with the Idaho Water Resource Board and other stakeholders to evaluate feasibility and build consensus around a preferred approach. This coordination is anticipated to include multiple meetings with legal counsel, up to three meetings with the Idaho Water Users Association, up to three meetings with IWRB staff, and up to six stakeholder outreach meetings with irrigation districts, municipalities, agricultural users, and other affected parties.

In addition, the County is developing a public education and outreach strategy to inform stakeholders and the broader community about the purpose, benefits, and implications of district formation, including potential cost allocation and funding mechanisms. This may include preparation of informational materials, public meetings, and stakeholder engagement efforts to build understanding and support. Where district formation or associated funding

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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mechanisms require formal approval, including potential voting requirements, the County will evaluate statutory processes, timelines, and procedural steps necessary to successfully advance those actions.

Work sessions with the Elmore County Board of Commissioners are assumed to review findings, refine direction, and guide decision-making. The outcome of this effort will be a recommended district formation strategy, including an implementation pathway and, if necessary, draft legislative concepts to support long-term governance, funding, and operation of water infrastructure in the region.

**b. Water Right Expansion**

In parallel, the County is actively pursuing and refining additional surface water rights to support the continued development, refinement, and expansion of surface water rights necessary to implement the County's long-term water supply strategy. This work will include evaluation of existing permits and identification of opportunities for amendments to points of diversion, place of use, and beneficial use to align with the preferred infrastructure alternatives.

Technical analyses are ongoing to support water right applications and amendments, including evaluation of water demand, system capacity, and intended uses such as irrigation, aquifer recharge, and municipal supply. The County continues to coordinate with the Idaho Department of Water Resources to ensure applications are complete, technically sound, and aligned with regulatory requirements.

Extensive coordination with local landowners will be conducted to identify potential water users, confirm participation interest, and refine the place of use associated with water right applications. This effort assumes coordination with approximately 10 to 15 landowners, including up to six meetings to gather input and support application development.

The County will also coordinate with IWRB staff prior to submission of water right applications to ensure alignment with program objectives and funding considerations, with up to three coordination meetings anticipated. In addition, up to four meetings or work sessions with the Elmore County Board of Commissioners are assumed to review progress, refine strategy, and obtain direction on application submittals.

Deliverables will include completed water right applications, amendments, and supporting technical documentation suitable for agency review and processing.

**c. Capital Funding Procurement**

The County is also actively engaged in identifying, coordinating, and securing the significant capital funding required to implement the proposed water supply projects. Collectively, these efforts are anticipated to require in excess of \$100 million in capital investment, making coordinated funding procurement a critical component of the overall strategy. These projects

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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are not feasible without substantial state and federal commitment and must be advanced through a deliberate and coordinated funding approach.

The County is working closely with the Idaho Water Resource Board to align project components with existing and future funding opportunities, including the Mountain Home Plateau Aquifer Regional Water Sustainability Program. In parallel, the County is pursuing federal funding through programs such as the Natural Resources Conservation Service Regional Conservation Partnership Program (RCPP), which prioritizes projects that convert groundwater use to surface water and support aquifer recharge.

A key element of this effort includes building upon the State's existing investment in water infrastructure supporting the Mountain Home Air Force Base. These projects present a unique opportunity to leverage additional federal funding through the Department of Defense, including the Defense Community Infrastructure Program (DCIP) and the Office of Local Defense Community Cooperation (OLDCC), given the direct relationship between long-term water reliability and mission sustainability at the installation.

The County continues to coordinate with local and regional partners, including the Mountain Home Irrigation District and the Mountain Home Air Force Base, to align funding strategies and maximize leverage across multiple sources. This effort will include development of funding strategies, preparation of grant and funding applications, and coordination with funding agencies.

Public education and outreach are supporting these efforts by communicating project benefits, costs, and long-term value to stakeholders and the community, which is critical to advancing local funding mechanisms such as bonding or other financing strategies.

These supporting actions are being advanced concurrently with the capital project efforts described below and are essential to ensuring that proposed infrastructure can be permitted, funded, implemented, and sustainably operated over the long term.

## **Scope of Work**

### **1 South Fork Boise River Diversion Project**

#### **Final Design and NEPA**

The South Fork Boise River Diversion Project is advancing from 60% design level to a 90% design, representing a critical step toward construction readiness. The existing 60% design has already established key elements of the project, including pump sizing and specifications, electrical and power requirements, control systems, pipeline configuration, site access, and preliminary geotechnical conditions. The 90% design effort is refining and finalizing these components to a level sufficient for permitting, final design, and construction and to support

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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advancement of associated water rights, capital funding strategies, and long-term operational planning.

This phase will include advancement of both final engineering design and environmental review to support federal permitting. Engineering work will include development of a comprehensive design package consisting of detailed drawings and a supporting design memorandum, while environmental efforts will advance National Environmental Policy Act (NEPA) compliance to support federal decision-making. Civil design will advance pipeline alignment and elevation profiles, finalize grading based on geotechnical findings, and refine access roads and site layouts. Mechanical and hydraulic analyses will be completed to confirm system performance, including pump hydraulics, pipeline integrity, and transient (surge) conditions under various operational scenarios such as startup, shutdown, and power failure. Electrical and controls design will be finalized, including system load requirements, standby power needs, communications, and overall control philosophy. Structural design will address foundations, equipment supports, and critical infrastructure components necessary for long-term operation and maintenance.

In parallel, this effort will advance environmental review and permitting for the project through completion of NEPA requirements. Building on preliminary work already completed, including wetlands delineations, cultural resource surveys, and initial biological assessments, this phase will finalize environmental studies necessary to support federal review. This includes completion of botany and wildlife evaluations, refinement of impact analyses, and preparation of supporting technical documentation.

The 90% design will also include preparation of a Class 1 Opinion of Probable Construction Cost, improves cost certainty and support funding and implementation decisions and inform ongoing capital funding procurement efforts, including alignment with state and federal funding programs and project phasing strategies. Project management and coordination will occur throughout the effort, including regular communication and up to four meetings with the Elmore County Board of Commissioners to review progress and refine project direction.

Completion of the 90% design and NEPA process will position the project for final permitting, funding acquisition, and construction, directly advancing a key component of the County's strategy to reduce groundwater demand and stabilize the aquifer. In parallel, this work will support refinement of water right implementation, coordination with funding partners, and evaluation of long-term ownership and operational structures, including potential transfer of project assets and water rights to a future special purpose district.

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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### **Schedule**

The 90% design effort is currently underway, funded by the County, and is anticipated to be completed by August 2026. The County is requesting funding to complete the remaining 25% of the design effort, including final engineering refinements, cost estimating, and preparation of deliverables necessary to advance the project to permitting and construction readiness. In parallel, environmental review and permitting under NEPA is anticipated to occur over approximately 24 to 30 months, including completion of remaining environmental studies, agency coordination, and preparation of required documentation. The County will work closely with the U.S. Forest Service to advance the process, with the goal of achieving formal agency engagement on an Environmental Assessment (EA) by Q4 2027, positioning the project for completion of NEPA and subsequent advancement toward final permitting and construction.

## **2 MHID Canal System Alternatives Study**

The MHID Canal System evaluation will focus on improving the efficiency, reliability, and long-term functionality of the existing conveyance system, which is a critical component of the region's surface water infrastructure. The Canal system is located in the South Fork Boise River watershed, extending from Little Camas Reservoir to a final tunnel that discharges into the Canyon Creek watershed. This effort will quantify water losses, assess aging infrastructure conditions, and identify targeted improvements to increase system performance and support broader water supply objectives, including improved surface water delivery, aquifer recharge, and alignment with long-term water rights and funding strategies.

Field-based flow measurements will be conducted at multiple locations along the canal during the irrigation season to quantify seepage losses and identify reaches experiencing excessive leakage. Where feasible, monitoring instrumentation will be utilized at key inlet and outlet locations to evaluate system-wide performance under varying flow conditions. These measurements will be supplemented by visual inspections of the canal system to identify structural deficiencies, areas of potential overflow, and other operational concerns.

Tunnel conditions will be evaluated through review of existing inspection data and video records, combined with targeted additional data collection for select tunnels to better understand structural integrity, hydraulic capacity constraints, and rehabilitation feasibility. Based on this analysis, alternatives will be developed to reduce seepage losses, improve conveyance efficiency, and reduce the risk of tunnel failure. These alternatives may include canal lining, targeted rehabilitation measures, and operational improvements. Seepage loss improvements within the Canal system will result in increased water delivery to the Mountain Home Plateau. The study does not seek to reduce seepage losses from MHID facilities within the Mountain Home Plateau.

The work will culminate in a technical memorandum summarizing findings, identifying priority improvements, and providing conceptual-level cost estimates and operational

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

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considerations, which will inform future capital funding procurement efforts and project phasing.

In addition, the evaluation will support refinement of water right implementation by identifying how increased delivery efficiency can be utilized within existing and future water rights, and will inform long-term governance considerations, including potential integration of improved infrastructure into a future district framework responsible for operation, maintenance, and cost allocation.

This effort will directly support maximizing the effectiveness of existing infrastructure as part of the broader aquifer stabilization strategy.

### **Schedule**

This effort is anticipated to require approximately 5 months of active work, including 4 months of field measurements and analysis during canal flow conditions and approximately 1 month of evaluation during non-flow conditions. Due to current drought conditions, the canal is anticipated to be empty by June 2026, allowing non-flow-related tasks to be completed this year; however, sufficient flow conditions may not be available in 2026 to complete the required field measurements. As a result, additional data collection may be required during the 2027 irrigation season, extending the overall schedule to completion in 2027.

### **3 Snake River Pipeline and Pump Station Alternatives Study**

The Snake River Pipeline and Pump Station Alternatives Study will evaluate feasible and cost-effective approaches for developing a reliable surface water supply to the Mountain Home Plateau. This effort will include evaluation of multiple potential pump station locations along the Snake River, including both existing and new intake sites, as well as development of conceptual pipeline alignments to convey water to the Mountain Home area.

The study will assess system requirements such as pump sizing, pipeline diameter, routing constraints, and the potential need for booster stations or other supporting infrastructure. Conceptual-level cost estimates and operational cost comparisons will be developed for each alternative, along with evaluation of key constraints including power availability, environmental permitting considerations, access, and easement requirements.

A key component of this effort will be coordination with local landowners to identify lands that could be served by the system through “soft conversions” from groundwater to surface water supply, assess interest in participation, and define anticipated water delivery needs including flow rates and pressures. This coordination will help ensure that the selected alternative is both technically feasible and aligned with regional demand.

In parallel, this effort will support the continued development, refinement, and expansion of surface water rights necessary to implement the preferred alternative. This includes evaluation of existing Snake River water rights and identification of opportunities for additional water

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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right acquisition or amendments to points of diversion, place of use, and beneficial use to align with the selected infrastructure configuration. Technical analyses will be conducted to support water right applications, including evaluation of water demand, system capacity, and intended uses such as irrigation, aquifer recharge, and municipal supply. The County will coordinate with the Idaho Department of Water Resources to ensure applications are complete, technically sound, and aligned with regulatory requirements, and will engage with IWRB staff prior to submittal to ensure consistency with program objectives. Coordination with participating landowners will also inform the development of place of use and beneficial use definitions associated with new or amended water rights.

This effort will also be closely coordinated with ongoing capital funding procurement activities to align project alternatives with available state and federal funding opportunities and to support development of a phased implementation strategy. In addition, the evaluation will inform long-term governance considerations, including how infrastructure, water rights, and participating users may be incorporated into a future district structure responsible for operation, maintenance, and cost allocation.

The outcome of this effort will be identification of a preferred alternative that can be advanced into permitting, water right development, and final design.

### **Schedule**

This effort is anticipated to require approximately 4 months to complete following Notice to Proceed and Elmore County's initial coordination with affected landowners. The schedule assumes timely landowner engagement to support evaluation of service areas, with completion resulting in identification of a preferred alternative suitable for advancement into permitting and design.

### **Budget**

Elmore County has demonstrated a sustained financial and institutional commitment to addressing water supply challenges on the Mountain Home Plateau. Since July 2015, the County has expended approximately \$3,442,258 in internal County funds to advance evaluation, planning, and early implementation efforts, in addition to securing a \$140,400 planning grant from the Idaho Department of Environmental Quality (DEQ) for the initial study of the South Fork Boise River Diversion Project.

These County-funded expenditures include approximately \$2,418,957 on the South Fork Boise River Diversion Project, \$267,418 on the MHID Canal System (including a \$200,000 match to an IWRB Aging Infrastructure Grant), and \$753,883 on the Snake River Pump Station and Pipeline Project. Collectively, these investments have advanced the South Fork Boise River Diversion Project into 90% engineering design; supported preliminary NEPA studies, funded preliminary feasibility evaluation of Snake River supply alternatives, and informed an economic analysis to evaluate the regional impacts of water supply under various scenarios.

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May 1, 2026

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Additional investments include consulting and legal services necessary to develop and advance water supply alternatives; securing a 200 cubic feet per second flood water right (permit 63-34348) from the South Fork Boise River and 20 cubic feet per second surface water right (permit No. 02-10535) from the Snake River; providing matching funds for Mountain Home Irrigation District aging infrastructure grant projects; and conducting historical research to better understand longstanding limitations in surface water delivery to the region. The County has also committed significant staff and consultant resources to regional coordination and stakeholder engagement, including participation in quarterly Water Advisory Group meetings, technical involvement in the WeSPAM groundwater model advisory committee, ongoing coordination with local stakeholders, and numerous presentations at the local and regional level, including regular updates to the Idaho Water Resource Board.

Building on this substantial local investment and the progress made to date, Elmore County is requesting that the \$3,442,258 in prior County expenditures be recognized as match toward this funding request under the Mountain Home Plateau Aquifer Regional Water Sustainability Program. The following budget proposal identifies the requested funding necessary to advance the next phase of work and reflects the coordinated effort required to stabilize the aquifer and secure long-term water reliability.

**Table 1 Budget Request**

No.	Project Component	Description of Work	Total Project Cost	IWRB Request
1	South Fork Boise River Diversion Project - Final Design and NEPA	Advances the South Fork Boise River Diversion Project through final engineering design and completion of NEPA review, positioning the project for permitting, funding, construction readiness, and integration into a long-term governance structure through future district formation.	\$ 876,400	\$ 507,750
2	MHID Canal System Alternatives Study	Evaluates canal system losses, infrastructure conditions, and improvement alternatives to increase water delivery efficiency.	\$ 158,400	\$158,400
3	Snake River Pump Station and Pipeline Alternatives Study	Evaluates pipeline and pump station alternatives, supports water right development, coordinates with landowners, and aligns the project with funding and long-term governance to advance a preferred alternative toward design and permitting.	\$ 435,000	\$ 435,000
<b>Total</b>			<b>1,469,800</b>	<b>1,101,150</b>

Supporting actions are embedded within each project component.

**IWRB FINANCE COMMITTEE FUNDING REQUEST**  
**Mountain Home Plateau Aquifer Regional Water Sustainability Program**

May 1, 2026

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## **Summary**

Elmore County is requesting support from the Idaho Water Resource Board through the Mountain Home Plateau Aquifer Regional Water Sustainability Program to advance key efforts necessary to stabilize the Mountain Home Plateau Aquifer and secure long-term water reliability. The proposed work builds on years of planning and investment and is focused on moving priority projects toward implementation.

The request will support development of new surface water supplies, improvements to existing delivery systems, advancement of water rights, and establishment of a long-term governance and funding framework. It also includes environmental review and funding coordination needed to position these projects for construction.

These efforts represent a coordinated, regional approach to reducing groundwater reliance and addressing a long-standing water deficit. Given the scale of the need and the importance of water reliability to the community and the Mountain Home Air Force Base, continued state partnership is essential. Approval of this request will enable the County to advance implementable solutions and leverage additional federal and local funding to support long-term success.

## References

SPF Water Engineering, LLC. 2017. *Elmore County Water Supply Alternatives*.  
<https://idwr.idaho.gov/wp-content/uploads/sites/2/iwrb/2017/20170228-Elmore-County-Water-Supply-Report.pdf>.

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Justin Ferguson, Project Manager  
**Date:** May 1, 2026  
**Subject:** ESPA SWC Efficiencies Program – Minidoka Irrigation District – F-Waste Rehabilitation Project

---

**REQUESTED ACTION:** Consider a Funding Request for Minidoka Irrigation District for \$3,210,000

---

## INTRODUCTION

The Minidoka Irrigation District (MID) has applied for ESPA SWC Efficiencies Program funding to repair the existing F-Waste siphon structure. This serves as an emergency siphon for both the MID and the Burley Irrigation District (BID) and, according to a recent survey conducted by Civil Science of Twin Falls, is severely structurally degraded. This poses significant risks to agricultural productivity in the area if the structure fails.

## PROPOSED PROJECT

Built in the 1900s, the structure ensures safe, reliable operations during emergency discharge events for both the Minidoka and Burley irrigation districts. Core samples taken by Civil Science in 2021 indicated severe structural degradation and a significant reduction in compressive strength. The location for this structure is noted on the figure as F-Waste Siphons (yellow).

## PROJECT IMPLEMENTATION SCHEDULE & COST ESTIMATE

The MID proposes that the project could be completed in stages, with the new structure built upstream of the existing, followed by the removal of the existing structure. With potential weather, funding, and scheduling, it may be possible for both phases to run concurrently. Project costs are currently estimated at \$3,210,000.

## EFFICIENCY RESULTS LIKELY TO BE ACHIEVED & 2024 SWC AGREEMENT IMPACTS

The project would allow MID to improve flow consistency and reduce maintenance costs for its patrons. The reconstruction would also restore full hydraulic capacity, prevent leakage, and ensure safe discharge operations for both BID and MID patrons.



**CONCLUSION**

As a Surface Water Coalition member, the Minidoka Irrigation District is working to improve system efficiency to meet the 2024 Surface Water Coalition Stipulated Mitigation Plan. This project, requesting \$3,210,000, would help MID improve water management coordination and ensure safe, reliable operations during emergencies.

**Attachment(s):**

- *Minidoka Surface Water Efficiencies Proposal – F-Waste Rehabilitation Project*
- *Draft Resolution*



**MINIDOKA IRRIGATION DISTRICT**  
**98 WEST 50 SOUTH**  
**RUPERT, ID 83350**  
**(208) 436-3188**  
**[www.minidokairrigationdistrict.org](http://www.minidokairrigationdistrict.org)**  
"M.I.D. IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER"

1 May 2026

Idaho Department of Water Resources  
Attn: Surface Water Coalition Operational Efficiencies Program  
PO Box 83720  
Boise, Idaho 83720

Idaho Water Resource Board Funding Consideration Committee,

Enclosed is Minidoka Irrigation District's (MID) funding request for consideration under the Idaho Water Resource Board Surface Water Coalition Operational Efficiencies Program.

The **South Side Gravity Canal F Waste Rehabilitation Project** represents a critical infrastructure investment focused on the replacement of a key structure within the South Side Gravity Canal system. The F Waste structure is essential for regulating canal operations and safely conveying excess flows within the system. Due to its age and current condition, the structure is no longer capable of reliably performing its intended function without increasing operational risk.

The total estimated project cost is **\$3,210,000**, and MID respectfully requests **100% funding** under the SWC Operational Efficiencies Program to complete the project under a "not-to-exceed" contract.

Thank you for your time and consideration. MID looks forward to working with the Idaho Water Resource Board to complete this important infrastructure project.

Sincerely,

**Dan Davidson**  
General Manager  
Minidoka Irrigation District

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## **Project Sponsor**

Minidoka Irrigation District (MID) is an irrigation district and political subdivision of the State of Idaho located in Minidoka and Cassia Counties. The District operates as part of the U.S. Bureau of Reclamation's Minidoka Project, one of the earliest federal reclamation efforts established following the Reclamation Act of 1902.

MID currently provides irrigation service to approximately 77,000 acres and more than 3,000 water users. The District operates and maintains over 500 miles of canals, laterals, and drains. Water supplies are delivered from federal storage reservoirs including Minidoka, American Falls, Palisades, and Jackson Lake.

MID works in coordination with Burley Irrigation District (BID) in the operation and maintenance of shared infrastructure within the South Side Gravity Canal system. Responsibilities for these shared facilities are defined through longstanding agreements between the two districts, including the Memorandum of Agreement included as Attachment 3.

## **Project Description**

The proposed project focuses on the reconstruction of the F Waste structure located within the South Side Gravity Canal system in Cassia County, Idaho, near Declo.

The F Waste structure serves as a critical operational and safety component of the system by regulating canal flows and providing a controlled means of discharging excess water. The structure is essential to maintaining stable canal conditions and supporting downstream water delivery operations for both MID and BID.

The existing structure has exceeded its useful life and exhibits significant deterioration. The proposed project will replace the structure with a new facility designed to meet modern engineering standards, restoring full functionality and ensuring long-term operational reliability.

## **Proposed Project Narrative**

The South Side Gravity Canal is a key component of the regional irrigation system serving both MID and BID. The F Waste structure, located near the terminus of the canal, plays a vital role in maintaining proper flow conditions and ensuring safe system operation.

The structure is over one hundred years old and has experienced significant degradation due to age, environmental exposure, and long-term hydraulic loading. Engineering evaluation of the structure has identified widespread internal cracking, material deterioration, and reduced structural strength.

Concrete core testing indicates compressive strengths in the range of approximately 900 to 1,000 psi, significantly below typical structural design standards . These findings, combined with visible cracking and water infiltration, indicate that the structure is no longer capable of reliably performing its intended function over the long term.

Failure of the F Waste structure would have immediate and significant impacts on system operations. The South Side Gravity Canal supports irrigation deliveries to an estimated 35,000 to 40,000 acres of agricultural land. Loss of the structure would disrupt water delivery and could result in substantial economic impacts to the region during the irrigation season.

The proposed project will replace the existing structure with a new reinforced concrete facility designed to replicate the functional characteristics of the original structure while incorporating modern materials and construction practices. This will restore full hydraulic capacity, eliminate leakage associated with structural deterioration, and ensure reliable operation under a range of flow conditions.

The project supports water supply stability, public safety, and long-term sustainability of irrigation infrastructure within the region.

MID will serve as the contracting entity for the project. BID will act as a primary construction partner and sub-awardee and will perform the majority of the construction work due to its operational responsibility for the facility and its experience with similar infrastructure.

The roles and responsibilities of MID and BID are consistent with existing agreements governing shared infrastructure within the South Side system, as documented in the MID-BID Memorandum of Agreement (Attachment 3)

## **Project Team**

Minidoka Irrigation District (MID) will serve as the project sponsor and contracting entity, providing project oversight, coordination, and administration.

Burley Irrigation District (BID) will serve as the primary construction partner and sub-awardee and will perform the majority of construction activities. BID has extensive experience in the operation, maintenance, and construction of large-scale irrigation infrastructure, including prior work on the South Side Gravity Canal system.

Engineering evaluation and design support for the project has been provided by qualified engineering firms, including structural analysis and recommendations documented in the F Waste Engineering Report (Attachment 3) .

## **Map**

The map provided in this section is also included as a full sheet representation as **Attachment 2.**



## Cost Estimate and Budget

The South Side Gravity Canal F Waste Rehabilitation Project represents a major infrastructure replacement effort designed to restore system reliability and ensure continued operation of critical irrigation facilities.

The total estimated project cost is **\$3,210,000**, and MID is requesting **100% funding** through the Idaho Water Resource Board SWC Operational Efficiencies Program.

Rehabilitation or partial repair of the existing structure was evaluated but determined to be infeasible due to the extent of internal deterioration identified through engineering analysis. Full replacement represents the most cost-effective and reliable long-term solution.

<b>Category</b>	<b>Description</b>	<b>Estimated Cost</b>
<b>Planning and Preliminary Engineering</b>	Site surveys, data collection, feasibility evaluations, coordination with stakeholders, and preliminary design development.	\$120,000.00
<b>Final Design and Engineering</b>	Development of final design drawings, hydraulic modeling, structural analysis, and engineering specifications for the F Waste structure replacement.	\$ 650,000.00
<b>Construction and Installation</b>	Excavation, structure demolition, concrete work, installation of the new reinforced concrete structure, and associated materials and labor.	\$2,248,000.00
<b>Administrative and Legal</b>	Project management, contract administration, coordination with IWRB staff, procurement oversight, and potential legal services.	\$72,000.00
<b>Construction Inspection and Quality Control</b>	Field inspection, testing, commissioning, and verification of structural performance.	\$120,000.00

## Budget Summary

The majority of project costs are associated with construction and installation, reflecting the scale and complexity of replacing a major structural component within an active canal system.

All cost estimates are based on recent similar projects and current construction conditions. MID will provide project oversight and coordination to ensure that all work is completed in accordance with applicable standards and requirements.

## Additional Project Funding Sources

This funding request represents the full amount required to complete the project. Previous funding efforts related to this structure will be incorporated into this project, and all work will be completed under a single contract.

## Implementation Schedule

The South Side Gravity Canal F Waste Rehabilitation Project is planned as a three-year, phased construction effort. Construction activities at the F Waste will primarily be confined to times when the irrigation water is out of the system, typically October through March to prevent disruption to irrigation operations.

### **Year 1: Design and Project Initiation**

During the first year of the project, MID will focus on final design and engineering activities necessary to advance the project to construction. This phase will include completion of engineering plans and specifications, coordination with regulatory agencies, and acquisition of any required permits. MID will also complete procurement activities, including contractor selection and contract execution, to ensure the project is positioned to move efficiently into construction.

### **Years 2–3: Construction and Project Closeout**

During Years 2 and 3, BID will focus on full construction of the F Waste Structure in coordination with engineering partners, including Civil Science and Shannon & Wilson, and in collaboration with the MID. Construction activities will include demolition of the Minidoka Irrigation District F Waste Rehabilitation Proposal

existing structure as needed, installation of new structural components, concrete work, and integration with the existing canal system.

Project oversight and coordination will be maintained throughout construction to ensure compliance with design specifications and project objectives. These evaluations will also help identify any necessary adjustments prior to final commissioning.

Upon completion of construction, the F Waste Structure will undergo final testing and commissioning to verify structural integrity and operational performance.

Final project activities will include site restoration and completion of all required reporting. MID will submit final documentation and financial reports in accordance with Idaho Water Resource Board requirements.

# **Attachment 1**

## Civil Science F Waste Engineering Report

## F-WASTE DRAFT SUMMARY

1/11/2022

Burley Irrigation District

Rebar location and concrete coring were completed in December 2021. 9 locations were selected for test cores and Atlas located rebar for those 9 locations. Of those 9 locations 6 cores were taken. The cores were drilled by Strata. Strata used a bolt down core drill with a 4" diameter core bit. Cores were removed from 3 concrete bank and apron locations and 3 structural locations within the diversion. All cores from the structure had thorough internal cracking. Strata stored the cores in a water bath and then pressed the cores to determine compressive strength of the concrete. Each of the cores from the structure that were tested had compressive strengths in the 900psi to 1000 psi range. This is far below the assumed minimum design strength of 3,000 psi. Photos of some of the core locations are shown below as well as located on a google earth image. Figure 1. Shows core locating for cores 3 in the apron, 4 where the technician is located, and 5 at the far opening.



Figure 1

Figure 2 shows the location where core 6 was taken as indicated by the visible red rectangle. The technician is marking rebar in the side of the structure, but no cores were taken from the location he is marking in Figure 2.



Figure 2

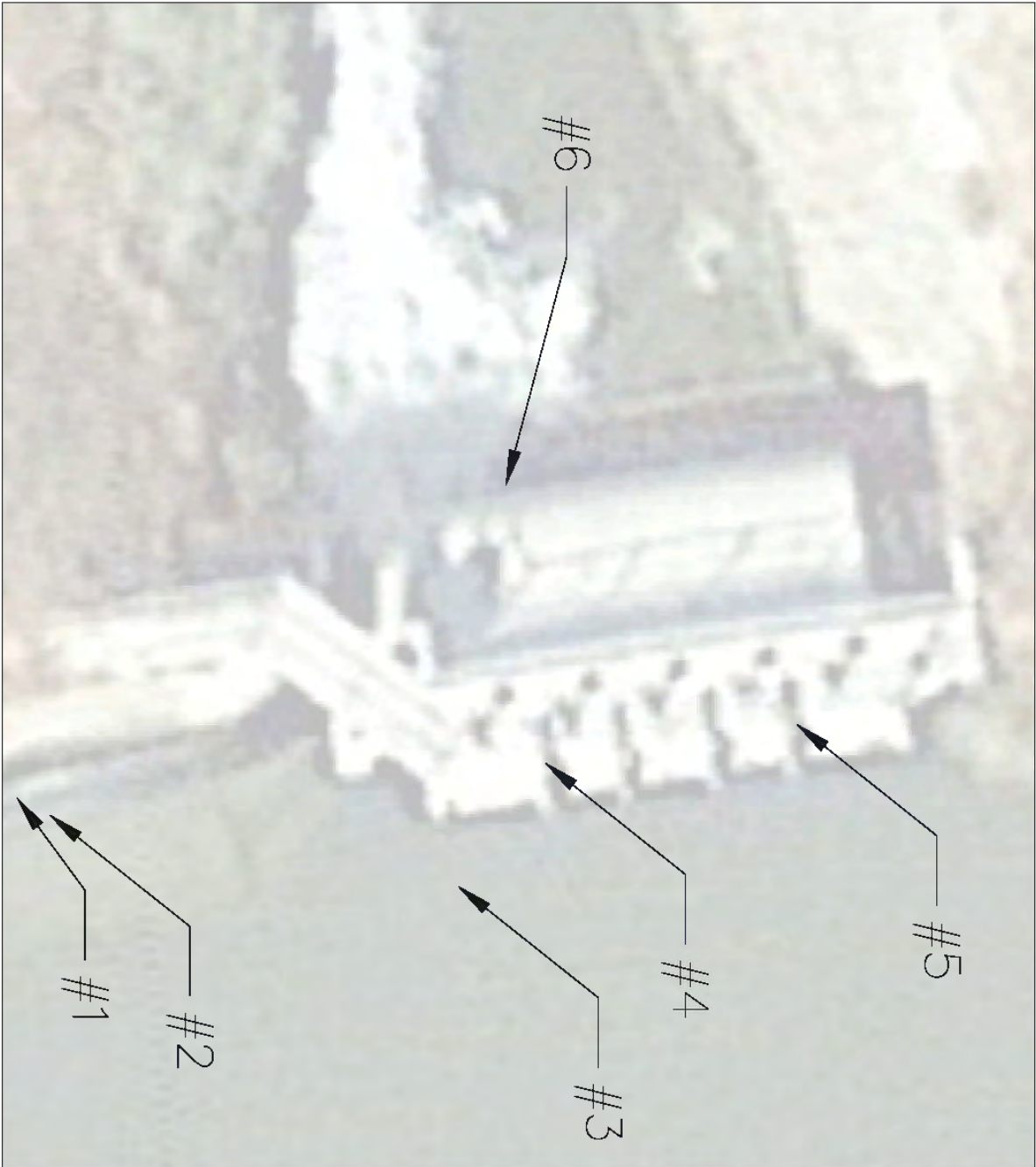
After 3 cores had been taken with similar core conditions no further cores were extracted. It was apparent that the entire structure was suffering from the same problem. It is highly unlikely that the concrete used in the structure had entrained air since it wasn't invented until after the likely construction date of the project. The valve deck is visibly cracked and broken in various places. Figure 3 shows the technician from Atlas locating rebar in the valve deck.

Technical data from Atlas and Strata are attached at the end of this document for review. It is the preliminary recommendation that a replacement for the structure be planned in the near future. The cracking and testing photos indicate that water has likely penetrated all rebar locations. It is highly likely that the rebar is beginning to rust and this will cause continued fracture and expansion of the concrete worsening the existing condition.



Figure 3

**F-WASTE CORE LOCATIONS**



**F-WASTE CORE LOCATIONS  
BURLEY IRRIGATION DISTRICT**

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NO.	DESCRIPTION	BY	DATE

**CivilScience**  
*Engineers | Surveyors | Solutions*  
 374 FALLS AVENUE  
 TWIN FALLS, ID 83401  
 208.737.8887



**COMPRESSIVE STRENGTH OF DRILLED CONCRETE CORES**

**REPORT TO:** Civil Science  
376 Falls Ave  
Twin Falls, Idaho 83301

**DATE:** 12/15/2021  
**CLIENT NO:** CIVSCI  
**PROJECT NO:** TF21175A

**PROJECT:** Burley Irrigation F Waste

Sample Identification

On 12/08/2021 Strata personnel obtained six concrete core samples, cored by STRATA from the above referenced project at locations determined by Civil Science. At your request, we performed compressive strength tests on 12/15/2021 in general accordance with ASTM C-42 on five of the six cores obtained. The test results are summarized as follows:

**Test Results:**

Location	Lab No.	Age, Days	Dia. in.	Capping Length, in.		Area, in <sup>2</sup>	Load, lbs	Comp. Strength psi	L:D Correction Factor
				Before	After				
1		7	3.97	4.01	4.01	12.38	88,000	<b>6,180</b>	0.87
3		7	3.97	3.97	3.97	12.38	83,240	<b>5,850</b>	0.87
4		7	3.97	6.25	6.25	12.38	16,140	<b>1,160</b>	0.89
5		7	3.97	8.00	8.00	12.38	12,170	<b>880</b>	0.89
6		7	3.97	5.00	5.00	12.38	12,730	<b>920</b>	0.89

\* Note: ASTM C 42 Note 3 - The compressive strengths of nominal 2-in. diameter cores are known to be somewhat lower and more variable than those of nominal 4-in. diameter cores. In addition, smaller diameter cores appear to be more sensitive to the effect of the length-diameter ratio.

Reviewed By: 

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## Burley Irrigation F Waste Concrete Cores

Initial Length	Initial Weight	7 Days in Cure Room	PSI
#1- 4 ¼"	2069.9	2074.7	6,180



Initial Length	Initial Weight	7 Days in Cure Room	PSI
#3- 4"	1993.4	1998.4	5,850



Initial Length	Initial Weight	7 Days in Cure Room	PSI
#4- 6 ¼"	2857.6	2875.8	1,160



Initial Length	Initial Weight	7 Days in Cure Room	PSI
#5- 10 3/4"	4636.8	4658.9	880



Initial Length	Initial Weight	7 Days in Cure Room	PSI
#6- 5 ¼"	2298.6	2309.8	920



Moisture throughout Core #5 After being Cut



Stephen Anderson  
Civil Science, Inc.  
376 Falls Avenue, Suite 100  
Twin Falls, ID 83301

**Project:** Limited Ground Penetrating Radar Survey  
Burley Irrigation District  
**Location:** F Waste, Declo ID  
**Inspection Date (s):** December 3rd, 2021  
**Project Manager:** Chris Elzea  
**Atlas File #:** T213157c

ATLAS has completed the limited Ground Penetrating Radar (GPR) survey of 8 core locations for core sampling. Found double and single mats of rebar at various locaitons. Avoid all rebar given by 1.5" minimum. Attached are photos of the findings.

ATLAS used a GSSI StructureScan Optical GPR device equipped with a 2 GHz antenna and TerraSIRch SIR-4000 digital control unit, which is capable of locating and imaging rebar and other targets in concrete slabs, decks, walls and masonry. The dielectric constant for this concrete was measured to be roughly 6.25 (dielectric is unit-less). Sampling rate was 16 bits/sample, 256 samples/scan, and 90 scans/foot. Some limitations of the technology exist depending upon the situation. Though not a foolproof system, the technology provides information on the location and depth of objects accurate to within 1/4 of the radar wavelength, which equates to a spatial resolution of roughly 1/4-inch for a 2 GHz system. As with any Non-Destructive Evaluation (NDE) technique, interpretation of data is key to achieving accurate results. As with any Non-Destructive Evaluation (NDE) technique, interpretation of data is key to achieving accurate results. Because of inherent limitations with GPR locating, ATLAS cannot warranty our findings and is providing this service for information purposes only.

ATLAS appreciates this opportunity to be of service and looks forward to a continuing relationship as your concrete and NDE expert. If you have questions concerning this report, please contact us at (208) 376-4748.

Respectfully submitted,  
ATLAS

  
Conducted by: Matt Hall  
NDE Specialist  
Attachments: *Photographs*

## Core Locations



### Location 1:

Slab appears to be ~5 inches thick. Single mat of rebar appears to be ~#5 bar.



### Location 2:

Slab appears to be ~6 inches thick. Single mat of rebar appears to be ~#5 bar.



### Location 3:

Slab appears to be ~5 inches thick. Single mat of rebar appears to be ~#5 bar.



### Location 4:

Wall has a double mat of rebar that appears to be ~#4 bar.

## Core Locations



**Location 5:**  
Wall has a double mat of rebar that appears to be ~#4 bar.



**Location 6:**  
Wall has vertical rebar at ~ 5 inches on center. Cannot "see" below this mat of rebar.



**Location 7:**  
Wall has a double mat of rebar that appears to be ~#4 bar.

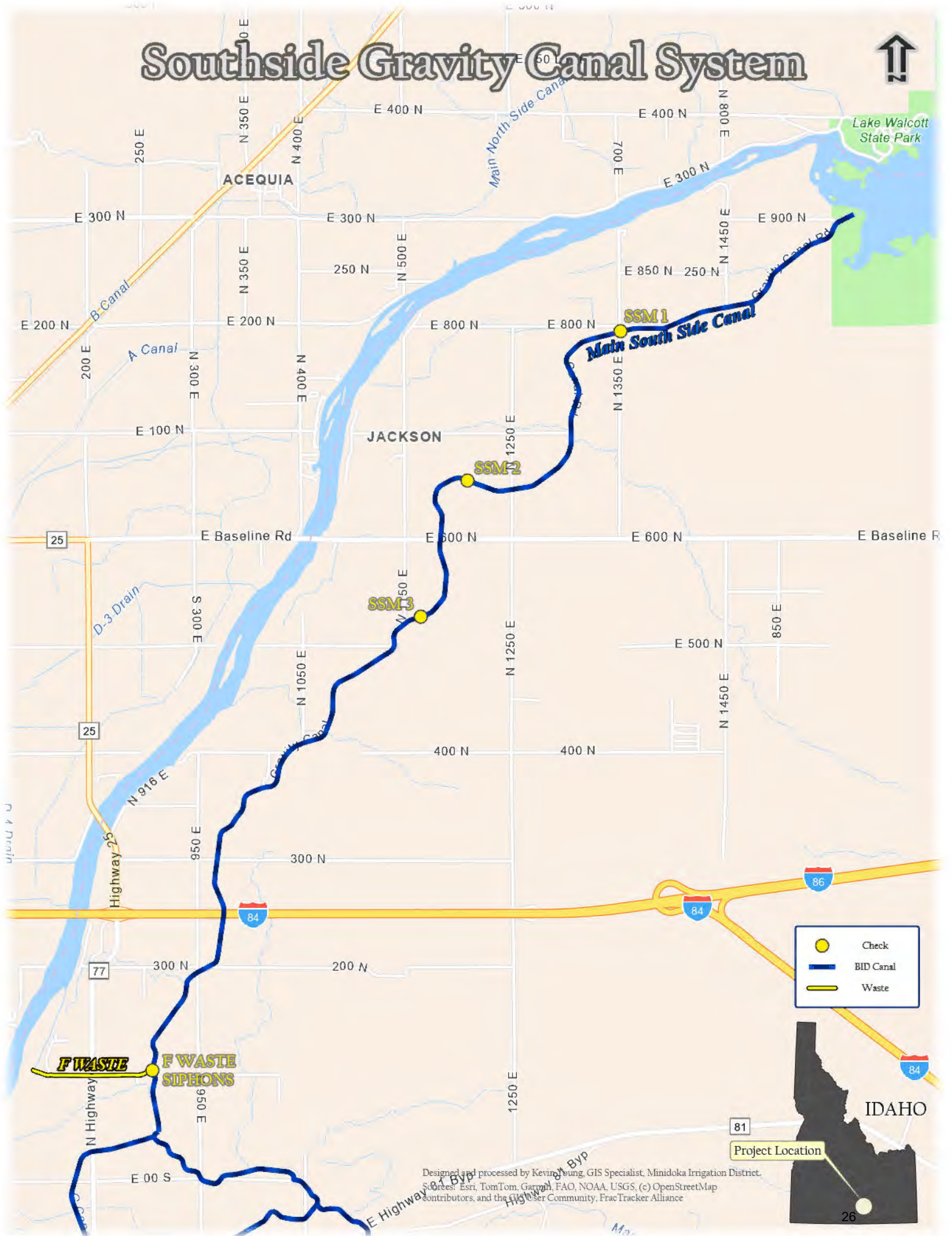


**Location 8:**  
Wall has vertical rebar at ~ 5 inches on center. Cannot "see" below this mat of rebar.

# Attachment 2

## Project Map

# Southside Gravity Canal System



	Check
	BID Canal
	Waste



Designed and processed by Kevin Chung, GIS Specialist, Minidoka Irrigation District.  
 Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, FracTracker Alliance

# **Attachment 3**

USBR Supplemental Contract Transferring the South Side Canal  
to Burley Irrigation District (1950) with Minidoka Irrigation  
District Amendment (1983)

Contract I74r-1197

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

Minidoka Project, Idaho

SUPPLEMENTAL CONTRACT TRANSFERRING THE MAIN SOUTH  
SIDE CANAL TO THE BURLEY IRRIGATION DISTRICT  
FOR OPERATION AND MAINTENANCE

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2

Contract 174r-1497

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

Minidoka Project, Idaho

SUPPLEMENTAL CONTRACT TRANSFERRING THE MAIN SOUTH  
SIDE CANAL TO THE BURLEY IRRIGATION DISTRICT  
FOR OPERATION AND MAINTENANCE

1 THIS AGREEMENT, made this 12th day of December, 1950,  
2 under the provisions of the Act of June 17, 1902 (32 Stat. 388)  
3 and acts amendatory thereof and supplementary thereto, together  
4 hereinafter called the Federal Reclamation Laws, by and among  
5 THE UNITED STATES OF AMERICA (hereinafter called the United  
6 States) acting through the Secretary of the Interior, the BURLEY  
7 IRRIGATION DISTRICT, and the MINIDOKA IRRIGATION DISTRICT (herein-  
8 after called the Districts) each an irrigation district organized  
9 and existing under and by virtue of the laws of the State of Idaho,

10 WITNESSETH, That:

EXPLANATORY RECITALS

11  
12 2. WHEREAS, under the provisions of existing contracts be-  
13 tween the parties hereto, the United States has turned over to  
14 the Districts for operation and maintenance certain portions of  
15 the Minidoka Federal Reclamation Project and has retained other  
16 project facilities as reserved works for operation and maintenance  
17 by the United States, these contracts include the contract dated  
18 March 15, 1926 (Symbol and No. 11r-392) between the United States  
19 and the Burley Irrigation District and the contract dated

3

1 December 2, 1916 (Symbol and No. Ilr-396), as supplemented by  
2 the contract of February 11, 1927 (Symbol and No. Ilr-115),  
3 between the United States of America and the Minidoka Irrigation  
4 District; and

5 3. WHEREAS, it is the desire of the United States and the  
6 Districts that the portion of the Main South Side Canal now being  
7 operated by the United States be transferred to the Burley Irriga-  
8 tion District for operation and maintenance,

9 NOW, THEREFORE, in consideration of the mutual and dependent  
10 stipulations and covenants herein contained, it is mutually agreed  
11 by and among the parties hereto as follows:

12 ADDITIONAL WORKS AND EQUIPMENT TRANSFERRED

13 4. (a) Effective January 1, 1951, the United States shall  
14 transfer to the Burley Irrigation District the care, operation  
15 and maintenance of the first 13.3 miles of the Main South Side  
16 Canal from its headworks located in Section 1, Township 9 South,  
17 Range 25 East, B. M., to Pumping Station Lift No. 1, located in  
18 Section 23, Township 10 South, Range 24 East, B. M., including  
19 all structures and measuring devices on the said canal constructed  
20 for the diversion of waters therefrom and also including the  
21 ditchrider's house and grounds, known as Cottage No. 20, located  
22 at Pumping Station Lift No. 1. The works described in this sub-  
23 article are in addition to those works transferred by the contract

24

1 of March 15, 1926, between the United States and the Burley  
2 Irrigation District, and are designated "transferred works"  
3 as defined in that contract, subject to all the provisions of  
4 that contract. The headworks and the main gaging station of  
5 the Main South Side Canal shall be continued to be operated and  
6 maintained by the United States as reserved works.

7 (b) Also effective January 1, 1951, the United States  
8 shall transfer to the Burley Irrigation District the following  
9 described equipment:

- 10 1 Osgood Commander dragline excavator, gasoline driven,  
3/4 cubic yard capacity, 35-foot boom with 10-foot  
extension, Page class "C" bucket.
- 11 1 International Harvester 1/2-ton pickup truck, 1947  
model, Serial No. 56102, Engine No. GRD214-142332.
- 12 1 International 2-ton dump truck, 1947 model, Serial  
# 31842, Engine No. BLD-250-39031.
- 13 3 heavy mousing chains.

14 Upon the transfer, the boards of directors of the Districts  
15 shall agree upon a fair valuation of the equipment and the  
16 Burley Irrigation District shall credit the Minidoka Irrigation  
17 District with 13.3 per cent of said valuation on future charges  
18 due under the provisions of article 7.

19 OPERATION AND MAINTENANCE OF TRANSFERRED WORKS

20 5. The Burley Irrigation District hereby accepts, as of  
21 January 1, 1951, the care, operation and maintenance of the

5

1 transferred works, and will care for, operate, maintain and  
2 deliver water therefrom in full compliance with the Federal  
3 Reclamation Laws, the regulations of the Secretary now in force  
4 and hereafter made, the terms of this contract, and other con-  
5 tracts between the United States and the District. The Burley  
6 Irrigation District shall care for, operate and maintain the  
7 Main South Side Canal in such manner that said works shall re-  
8 main in as good and efficient condition and of not less capacity  
9 for the diversion and carriage of irrigation water as now exists,  
10 and will use all proper methods to secure the economical and  
11 beneficial use of irrigation water.

12 DELIVERY OF WATER FOR LANDS IN  
MINIDOKA IRRIGATION DISTRICT

13 6. In recognition of the interests of the Minidoka Irriga-  
14 tion District by reason of delivery of water to gravity lands  
15 served from the portion of the Main South Side Canal transferred  
16 by this contract, the Minidoka Irrigation District shall have  
17 the right to consult with the Burley Irrigation District from  
18 time to time as to the operation and maintenance of the said  
19 transferred canal by the Burley Irrigation District, and the  
20 Burley Irrigation District shall operate and maintain the Main  
21 South Side Canal in full recognition of the rights of the Minidoka  
22 Irrigation District as now established and recognized in the

4

1 existing contracts between the Minidoka Irrigation District and  
2 the United States. Whenever in the operation of the canal its  
3 capacity becomes impaired by reason of mossing conditions to the  
4 extent that 185 c.f.s. of water cannot be delivered to the gravity  
5 lands of the Minidoka Irrigation District without reducing the  
6 delivery of water from the canal to the Burley Irrigation District's  
7 Pumping Station Lift No. 1 below 1037 c.f.s., the irrigation mana-  
8 gers of the Districts shall confer to work out satisfactory  
9 arrangements for correcting the conditions impairing the capacity  
10 of the canal and, if necessary, temporarily reducing the water  
11 deliveries, with the understanding that such reductions will be  
12 prorated on the basis of 185 c.f.s. to the Minidoka Irrigation  
13 District and 1037 c.f.s. to the Burley Irrigation District.  
14 When the capacity of the canal will furnish 185 c.f.s. to the  
15 Minidoka Irrigation District and still deliver more than the  
16 requirements of the Burley Irrigation District, then upon request  
17 of the Manager of the Minidoka Irrigation District, delivery to  
18 said District may be increased within the safe operating capacity  
19 of the canal.

20 MINIDOKA IRRIGATION DISTRICT TO PAY SHARE  
OF OPERATION AND MAINTENANCE COST

21 7. The Minidoka Irrigation District shall pay to the Burley  
22 Irrigation District 13.3 per cent of the annual cost of operating  
23 and maintaining the transferred works described in article 4 hereof.

1 Each year the Burley Irrigation District shall give notice to  
2 the Minidoka Irrigation District on or before December 1 of the  
3 estimated cost of operating and maintaining the transferred  
4 works described in article 4 hereof for the succeeding calendar  
5 year and the Minidoka Irrigation District's share of that cost.  
6 The Minidoka Irrigation District shall pay its share of said  
7 estimated cost to the Burley Irrigation District on April 1 for  
8 the year for which said payment is applicable. On or before  
9 January 30, 1952, and on January 30 of each year thereafter,  
10 the Burley Irrigation District shall furnish the Minidoka Irriga-  
11 tion District an itemized statement of the actual cost of operat-  
12 ing and maintaining the transferred works for the preceding year.  
13 Any surplus remaining over and above the amount advanced by the  
14 Minidoka Irrigation District as its share of the costs for that  
15 year shall be credited on the payment to be made the succeeding  
16 April 1. Should the Minidoka Irrigation District's share of the  
17 actual cost as shown by the itemized statement be more than the  
18 amount advanced by the Minidoka Irrigation District for that year,  
19 the Minidoka Irrigation District shall promptly pay to the Burley  
20 Irrigation District the amount of the deficiency.

21 PREVIOUS CONTRACTS TO REMAIN EFFECTIVE

22 8. This contract is supplementary to the contracts of  
23 March 15, 1926 and December 2, 1916, as supplemented by the con-  
24 tract of February 11, 1927, and these contracts, as well as all

6 8

1 other existing agreements among the parties hereto, are to  
2 remain in full force and effect as to all their terms, except  
3 that effective upon the transfer provided in article 4, the works  
4 therein described shall become transferred works under the provi-  
5 sions of the contracts of March 15, 1926 and December 2, 1916, as  
6 supplemented by the contract of February 11, 1927, and be removed  
7 from the provisions of those contracts relating to reserved works.

8 TITLE TO TRANSFERRED WORKS IN UNITED STATES

9 9. Title to works heretofore or herein transferred to the  
10 Burley Irrigation District shall remain in the United States until  
11 otherwise provided by Congress.

12 OFFICIALS NOT TO BENEFIT

13 10. No Member of or Delegate to Congress or Resident Commis-  
14 sioner shall be admitted to any share or part of this contract or  
15 to any benefit that may arise herefrom, but this restriction shall  
16 not be construed to extend to this contract if made with a corpora-  
17 tion or company for its general benefit.

18 IN WITNESS WHEREOF, the parties hereto have executed this  
19 contract the day and year first above written.

20 THE UNITED STATES OF AMERICA

By /s/ F. M. Clinton  
Acting Regional Director, Region 1  
Bureau of Reclamation

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BURLEY IRRIGATION DISTRICT

By /s/ J. W. Bodily  
President

(SEAL)

Attest:

/s/ Frank O. Redfield  
Secretary

MINIDOKA IRRIGATION DISTRICT

By /s/ Roy Marquess  
President

(SEAL)

Attest:

/s/ G. E. Nickerson  
Secretary

10

AMENDMENT TO SUPPLEMENTAL CONTRACT TRANSFERRING  
THE MAIN SOUTH SIDE CANAL TO THE BURLEY IRRIGATION  
DISTRICT FOR OPERATION AND MAINTENANCE

THIS AMENDMENT, made and entered into this 20th day of May , 1983, by and between Burley Irrigation District and Minidoka Irrigation District, hereinafter called the Districts, and the United States of America, hereinafter called the United States, acting through the Secretary of Interior or his authorized representatives, with each District organized and existing under and by virtue of the law of the State of Idaho.

WITNESSETH, that

WHEREAS, the responsibility for the operation and maintenance of the Main South Side Canal, hereinafter called the Main Canal, of the Minidoka Project is defined in the United States Department of Interior, Bureau of Reclamation, Contract No. I74r-1497 dated December 12, 1950, and;

WHEREAS, the parties hereto desire to share operation and maintenance of the Main Canal and to further define the obligations of the respective parties set forth in said contract and to amend portions hereof;

NOW, THEREFORE, it is hereby agreed as follows:

1. Article 3 of said contract is deleted in its entirety and the following substituted therefore:

3. WHEREAS, it is the desire of the United States and the Districts that the portion of the Main Canal originally operated and maintained by the United States be transferred to the Districts for operation and maintenance,

2. Article 4 of said contract is deleted in its entirety and the following substituted therefore:

4. As of the date of signing of this amendment, the care, operation, and maintenance of the first 13.3 miles of the Main Canal and appurtenances as described under Contract No. 174r-1497, shall be assumed by the Districts with responsibilities of each District as set forth. The works described in this article are in addition to those works transferred by the contract of March 15, 1926, between the United States and the Burley Irrigation District, and are designated "transferred works" as defined in that contract, subject to all the provisions of the contract. The headworks and the main gaging station of the Main South Side Canal shall be continued to be operated and maintained by the United States as reserved works.

3. Article 5 of said contract is deleted in its entirety and the following substituted therefore:

5. The Districts hereby accept as of date first above written the care, operation, and maintenance of the transferred works and will care for, operate, maintain, and deliver water therefrom in full compliance with the Federal Reclamation Laws, the regulations of the Secretary now in force, and hereafter made, the terms of this contract, and other contracts between the United States and the Districts. The Districts shall care for, operate, and maintain the Main Canal in such a manner that said works shall remain in a good and efficient condition and of not less capacity for the diversion and carriage of irrigation water as now exists, and will use all proper methods to secure the economical and beneficial use of irrigation water.

The Districts agree as follows in the operation and maintenance of the Main Canal:

(a) Turn on/off time - Water can be turned on anytime after April 1 and turned off no later than November 1 of each year. The exact date of turn-on and turn-off shall be agreed on by the Managers of each District.

(b) Staff gages - Staff gages shall be installed and maintained by the Burley Irrigation District at the headings, or in the immediate location of the headings, of Laterals 33, 38, and 39. The purpose of the staff gages is to be able to maintain a proper water level in the Main Canal during periods of minimum flow. Managers shall agree as to the proper operating level at each staff gage during these periods of minimum flow.

(c) Operation and Maintenance

(1) Burley Irrigation District shall maintain the Main Canal prism including banks and access roads, all turnouts and measuring devices serving Burley Irrigation District lands, and the F wasteway structure and channel to the Snake River. Burley Irrigation District shall operate the Main Canal including checks, all turnouts serving Burley Irrigation District lands, and the F wasteway structure. Water levels in front of checks shall be maintained at the agreed on staff gage readings as discussed in paragraph (b) above.

(2) Minidoka Irrigation District shall maintain all turnouts and measuring devices serving Minidoka Irrigation District lands including the checks used to maintain proper water levels in the Main Canal. Minidoka Irrigation District shall operate all turnouts serving Minidoka Irrigation District lands.

(3) The Districts shall inspect the Main Canal after the water is turned out each year to discuss the maintenance work to be done. All work shall be completed by both Districts prior to April 1 of the following year.

(4) Any new construction, additions, alterations, or rehabilitation relative to the Main Canal and F wasteway structure shall be agreed upon by the Districts prior to beginning construction. If agreement cannot be reached then the procedure as outlined under Article 6A below shall be followed.

(5) Maintenance by the Districts shall be done in accordance with the state-of-the-art standards so that the integrity of the Main Canal and appurtenant structures shall be maintained. Measuring devices taking water from the Main Canal shall be maintained so that a reliable quantity of water delivered can be obtained. Records of water usage shall be submitted by the Districts to the Bureau of Reclamation in Burley including the water pumped by the First Lifting Pumping Plant and all turnouts upstream from the First Lift Pumping Plant. These water use records shall be available at the request of either party.

(6) Costs of any major rehabilitation or construction work beyond routine operation and maintenance at the F wasteway structure will be prorated to each District according to the assessed acres served from the Main Canal by each District

(d) Water Orders - Burley Irrigation District shall make all routine water orders for operation of the headworks of the Main Canal to Bureau of Reclamation operating personnel at Minidoka Dam. The Minidoka Irrigation District Manager shall have the authority to make downward flow adjustment requests to Minidoka Dam operating personnel in cases

of emergency and shall notify Burley Irrigation District officials of action taken as soon as possible after the emergency.

(e) Selection of Main Canal Watermaster - It is agreed that the Districts will consult and agree on the selection of a watermaster for the Main Canal. If agreement cannot be reached then the procedure as outlined under Article 6A below shall be followed.

(f) Liability Insurance - The Burley Irrigation District shall maintain liability insurance against canal breaks on the Main Canal. Minidoka Irrigation District shall maintain liability insurance for its work while operating, maintaining, constructing, rehabilitating, altering or adding to the Main Canal or appurtenant structures as required by terms of this agreement. Any work done by the Minidoka Irrigation District which disturbs either bank of the Main Canal must be accepted by the Burley Irrigation District so that Burley Irrigation District can validate the work for insurance purposes. Minidoka Irrigation District shall give written notification to the Burley Irrigation District upon completion of any work that disturbs either bank, and Burley Irrigation District shall have fifteen days to object to the work performed by Minidoka Irrigation District. Should Burley Irrigation District fail to object within fifteen days, the work shall be deemed accepted by Burley Irrigation District. Should Minidoka Irrigation District fail to notify Burley Irrigation District of the completion of work, the work shall be deemed accepted by the Burley Irrigation District if it does not object to the work within fifteen days after the inspection described in Paragraph 5(c) (3), or, in any event, on April 1, following the completion of the work. It is agreed that both districts shall maintain their own liability insurance, and Burley Irrigation District

will become liable insofar as the Main Canal is concerned after accepting any work done which disturbs either bank of the Main Canal by Minidoka Irrigation District. Any disagreement or acceptance of work shall be arbitrated in accordance with Article 6A.

4. Article 6 of said contract is deleted in its entirety and the following substituted therefore:

6. In recognition of the interests of the Districts by reason of delivery of water to lands served from the portion of the Main Canal previously transferred by Contract No. I74r-1497, the Districts shall have the right to consult with each other periodically as to the operation and maintenance of the Main Canal and the said Canal shall be operated and maintained in full recognition of the rights of each District as now established and recognized in the existing contracts between the Burley Irrigation District and the United States and the Minidoka Irrigation District and the United States. The Minidoka Irrigation District's share in the Main Canal is designated as 200 cubic feet per second, and the Burley Irrigation District's share is 1150 cubic feet per second. If for any reason the Main Canal's total capacity is reduced below 1350 cubic per second, then the amount of reduction for each District shall be prorated on the basis of the above figures. When the capacity of the Main Canal will furnish 200 cubic feet per second to the Minidoka Irrigation District and still deliver the requirements of the Burley Irrigation District, then upon request of the Minidoka Irrigation District Manager, delivery to the Minidoka Irrigation District may be increased within the safe operating capacity of the Main Canal.

5. The following Article 6A is inserted into said contract between Articles 6 and 7 as follows:

## RESOLVING DISAGREEMENT

6A. If for any reason the Districts or their managers cannot agree on any item called for in this contract, the problem will be submitted to the Project Superintendent of the Minidoka Project in Burley, Idaho, for resolution. If either District does not agree with the decision of the Project Superintendent, that party shall give written notice to the opposing party within fifteen days of the decision of the Project Superintendent of notice of an intention to submit the matter to arbitration. Each party shall then appoint one arbiter, and the two arbiters shall then appoint a third arbiter. The arbiters shall hold an arbitration hearing within thirty days after their appointments, at which time each party shall present its case, evidence, and witnesses, if any, in the presence of the other party and shall render their award, including a provision for payment of costs and expenses of arbitration to be paid by one or both parties, as the arbiters deem just. The award of the majority of the arbiters shall be binding upon the parties hereto, and judgment may be entered in any court having jurisdiction of the controversy according to the terms of the arbiters' decision.

6. Article 7 of said contract is deleted in its entirety and the following substituted therefore:

7. The Minidoka Irrigation District shall pay to the Burley Irrigation District the following charges for its share of the cost of operating and maintaining the Main Canal.

a. Four and fifty hundredths (4.50) percent of the total yearly operation and maintenance assessment less 5.00 percent made by the Minidoka Irrigation District to the lands within the Minidoka Irrigation District served by the Main Canal. Special assessment revenues or subsidies made by Minidoka Irrigation District are to be

excluded from the total figure. The formula for figuring this charge is as follows:

Charge = (TA) x 0.95 x .0450  
TA = Total yearly operation and maintenance assessment not including special assessments or subsidies made by Minidoka Irrigation District for lands served by Minidoka Irrigation District from the Main Canal  
0.95 = 5 percent discount given by Minidoka Irrigation District for early payment  
.0450 = 4.50 percent agreed on percentage

(b) Payment of the charges described under (a) above will be made to the Burley Irrigation District by April 1 of each year and will be accompanied by the assessment record of the lands served by the Main Canal lying within the Minidoka Irrigation District.

7. Except as herein amended, Contract No. F74r-1497 dated December 12, 1950, remains in full force and effect.

Burley Irrigation District

Minidoka Irrigation District

By *Phil Harts*  
President

By *Daniel L. Stapelman*  
Chairman

Approved  
United States of America

By *L.W. Lloyd*  
Regional Director  
Bureau of Reclamation  
Pacific Northwest Region

**BEFORE THE IDAHO WATER RESOURCE BOARD**

IN THE MATTER OF THE MINIDOKA IRRIGATION  
DISTRICT SURFACE WATER COALITION OPERATIONAL  
EFFICIENCY PROGRAM FUNDING REQUEST

RESOLUTION TO AUTHORIZE FUNDING  
FOR COSTS RELATED TO THE F-WASTE  
REHABILITATION PROJECT

1           WHEREAS, Idaho Code § 42-1760 authorizes the Idaho Water Resource Board (IWRB) to expend,  
2 loan, or grant money from the Water Management Account for water projects that conserve or increase  
3 water supply, improve drought resiliency, address water sustainability, or support flood management,  
4 including the identification, study, and construction of managed aquifer recharge sites above Milner dam;  
5 and  
6

7           WHEREAS, the IWRB passed resolution No. 23-2025 creating the Surface Water Coalition  
8 Operational Efficiency Program (Program) to fund improvements in water delivery system operations,  
9 with a goal of enhancing the efficient use of surface water supplies within the Snake River Plain Aquifer  
10 Area of Common Groundwater Supply, in support of the 2024 Stipulated Mitigation Plan entered into by  
11 the surface and ground water users on the Eastern Snake Plain; and  
12

13           WHEREAS, the Minidoka Irrigation District (MID) submitted a proposal to repair the existing F-  
14 Waste structure, used by both Minidoka and Bruley Irrigation Districts; and to regulate canal operations  
15 and safely convey excess flows within the system back to the Snake River; and  
16

17           NOW THEREFORE BE IT RESOLVED that the IWRB approves the Surface Water Coalition  
18 Operational Efficiencies Program funding request from the Minidoka Irrigation District, in an amount up  
19 to \$3,210,000, for the F-Waste Rehabilitation Project, from the Water Management Account  
20

21           BE IT FURTHER RESOLVED that the IWRB authorizes its Chairman or designee, to execute the  
22 necessary agreements or contracts with MID for the purpose of this resolution.

DATED this 21<sup>st</sup> day of May, 2026.

\_\_\_\_\_  
JEFF RAYBOULD, Chairman  
Idaho Water Resource Board

ATTEST \_\_\_\_\_  
DEAN STEVENSON, Secretary

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Mary Condon  
**Date:** May 1, 2026  
**Subject:** Grant Application Timing

**REQUESTED ACTION:** Consider Changing Grant Application Deadlines and Timing

**BACKGROUND:**

The Idaho Water Resource Board (IWRB, Board) currently administers four grant programs: Aging Infrastructure, Flood Management, Groundwater to Surface Water Conversions, and Measuring & Monitoring.

In March of 2026, an overview of the grant processing, timing, and constraints faced by contract managers was presented to the IWRB. The IWRB asked staff if there needs to be an adjustment to the notices, due dates, and review of grants to better manage workloads.

**CURRENT TIMING:**

Grant Program Timelines		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<b>Flood Management</b> Due First Friday in June Supplemental Jan 2026	Application Consultation												
	Staff Review & Ranking			D									
	Finance Committee & Board Meeting				R								
	Contract Development												
	Contract Mgt., Invoicing, Inspection							→					
<b>Aging Infrastructure</b> Due First Friday in August	Application Consultation												
	Staff Review & Ranking					D							
	Finance Committee & Board Meeting						R						
	Contract Development												
	Contract Mgt., Invoicing, Inspection								→				
<b>Groundwater to Surface Water Conversions</b> Due First Friday in August	Application Consultation												
	Staff Review & Ranking					D							
	Finance Committee & Board Meeting						R						
	Contract Development												
	Contract Mgt., Invoicing, Inspection								→				
<b>Telemetry/ Measuring &amp; Monitoring</b> (Last Friday in September)	Application Consultation												
	Staff Review & Ranking						D						
	Finance Committee & Board Meeting							R					
	Contract Development												
	Contract Mgt., Invoicing, Inspection										→		

**PROPOSALS:**

- Measuring & Monitoring Grants – Open to year-round, beginning each fiscal year on July 1.
  - Review of proposals will be conducted as quickly as possible to meet the next available IWRB regular Board meeting schedule for recommendations, but no later than 120 days after an applicant’s submittal is received by IWRB and IDWR staff.
- Groundwater to Surface Water Conversion Grant – Move the due date up one month to the first Friday in July.
  - Review of proposals will be conducted to meet the regular September IWRB Board meeting for recommendations.

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Mary Condon  
**Date:** May 4, 2026  
**Subject:** Grant Criteria

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**REQUESTED ACTION:** Consider Revised Grant Criteria for Aging Infrastructure, Measuring & Monitoring, and Groundwater to Surface Water Conversion Grants

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**BACKGROUND:**

The Idaho Water Resource Board (IWRB, Board) currently administers four grant programs: Aging Infrastructure, Flood Management, Groundwater to Surface Water Conversions, and Measuring & Monitoring.

In March of 2026, an overview of the processing, timing, and constraints in the grant program faced by contract managers was presented to the IWRB. The IWRB approved the March 2026 revision to the Flood Management Grant Criteria that added clarity for the applicant in the application process, as well as for the awardee during the contract period and reimbursement process. The remaining three grant criteria will be discussed today with proposed edits for consideration by the Finance Committee.

**CURRENT GRANT CRITERIA CONCERNS:**

- a. The Aging Infrastructure Grant Criteria was last updated in May of 2025 but is silent on any requirement by the applicant to address mitigation for a reduction to incidental recharge. The onus is on the applicant to show how they will not injure other water rights, or how they will mitigate for any reductions in water supply from their proposed project. Updates to the criteria are necessary to further describe the information required from applicants for projects that reduce incidental recharge as well as a clear division of associated costs of a project for any reductions in incidental recharge to allow the IWRB to consider partial funding.
- b. The Groundwater to Surface Water Conversion Grant Criteria was last updated May 2025, and after updates to the other grant criteria, also requires updates for consistency in formatting and disclosures of expectations to applicants.
- c. The Measuring & Monitoring Grant Criteria, last updated in May of 2025, is specific to the Eastern Snake Plain Aquifer (ESPA) area of common groundwater supply. Measurement orders have been issued by the Idaho Department of Water Resources (IDWR) Director in areas across the state, including outside the ESPA area of common groundwater supply. Water users statewide could benefit from an expansion to the eligible geographic location of the Measuring and Monitoring grants outside the ESPA.

**PROPOSAL:**

Consider revisions to the grant criteria for the Aging Infrastructure, Measuring & Monitoring, and the Groundwater to Surface Water Conversions to a stand format with additional language addressing the following: response times for applicants; registration with the State of Idaho for vendors and reimbursements; reimbursement procedures; in-kind work proposed budgets, reimbursement requests, and record keeping; and mandatory insurance requirement to address contract manager constraints and improve workflow efficiency.

Additionally, the following is specific to each grant criteria:

- a. A copy of the proposed revised Aging Infrastructure Grant Criteria is attached for consideration ahead of the August application filing date with additional language for applicants that propose projects expected to reduce incidental recharge.
- b. A copy of the proposed revised Groundwater to Surface Water Conversion Grant Criteria is attached for consideration for an additional requirement of the applicant to include the list of groundwater rights on the proposed converted project lands.
- c. A copy of the proposed revised Measuring & Monitoring Grant Criteria is attached for consideration to open the eligible project locations to Statewide.

**Attachment(s):**

- *Aging Infrastructure Criteria – draft redline*
- *Groundwater to Surface Water Conversion Grant Criteria – draft redline*
- *Measuring & Monitoring Grant Criteria – draft redline*



## IWRB Aging Infrastructure Grant Criteria

The Idaho legislature has appropriated to the Idaho Water Resource Board (IWRB) funding to be used for grants for water projects to **rehabilitate or improve aging water infrastructure**.

Projects that rehabilitate or improve Idaho's water infrastructure support the Idaho economy, provide economic value, and ensure long-term water resource stability and sustainability. The IWRB has developed these criteria to provide financial assistance on a statewide competitive basis through grants to eligible entities interested in pursuing eligible projects to rehabilitate or improve aging water infrastructure.

**Eligible Projects:** The IWRB defines an aging water infrastructure project as any new project, or new phase of an improvement project intended to repair, maintain, replace, or improve existing infrastructure that supports irrigation water delivery, storage, drainage, treatment, and use of water for irrigation. Water efficiency projects that reduce incidental recharge will be evaluated on a case-by-case basis.

**Ineligible Projects:**

- Projects that are already completed or underway by the application deadline
- Municipal drinking or wastewater systems

**Eligible Entities:** Irrigation Districts, Irrigation Boards of Control, Canal Companies, Drainage Districts, Groundwater Districts, Ditch Companies, Lateral Ditch Users Associations, Reservoir Districts, Municipal Irrigation Districts (formed per Title 50, Chapter 18, Idaho Code), Municipalities, Counties, Water Districts, and Soil and Water Conservation Districts.

**Eligible Geographic Area:** Statewide

**Program Budget:** No more than 50% of the total budget may be spent within a single IWRB district. This limit may be waived if there are no competing funding demands.

**Funding Details:**

- Funding Details: Up to \$2,000,000 per project; one project per application
- IWRB grant portion cannot exceed 50% of total project costs
- ~~Legal/Administrative services are limited to 5% of total project costs~~
- Costs incurred prior to the grant award date are not eligible for reimbursement
- Reimbursement requests can be made once a cost-reimbursement contract is established between the applicant-awardee and IWRB

- Reimbursement of invoices will not surpass 50% of the invoice amount (“Reimbursable Funds”) submitted to Board Staff. Of the Reimbursable Funds, 10% will be retained until Awardee submits a certificate of completion-
- Contract term will not exceed 3 years after the grant funding award (date of IWRB Resolution) unless an extension is approved by IWRB’s contract manager
- Funds may be reallocated if a project is not completed within the term of the cost-reimbursement contract, or if no response is received by the awardee applicant does not provide contract development information requested within a calendar year/90 days after the grant award date

**Application Requirements:** For the grant proposal to be considered, the following must be provided:

- A **cover letter** that is addressed to the IWRB and with the applicant’s eligible entity’s letterhead. The letter must contain a project summary and the project manager’s contact information. The summary must include the funding request dollar amount and expected total project cost, as well as all other funding sources.
- An **application** containing the following:
  1. Project sponsor (eligible entity) description (organization type, background, revenue sources, current operations)
  2. Project purpose and description (narrative, infrastructure description, repair, rehabilitation, improvement needs/objectives/benefits, 30% design plans, land entitlements at project location, description of any known environmental issues, urgency regarding repair or improvement)
  3. Photographs and description of damage, if applicable
  4. Project location (county, water source, PLS and/or Lat/Long), including map
  5. Public Benefits achieved pursuant to IC § 42-1760(2)(d) (protects existing water rights and uses, consider effects on other water uses including environmental quality, provides water for future development, improving aging water storage and infrastructure)
    - Water efficiency projects that reduce incidental recharge within a groundwater management area (GWMA) or critical groundwater area (CGWA) must provide a mitigation plan or component that results in a zero net impact, and the project is not inconsistent with the State Water Plan. Project locations within the Eastern Snake Plain Aquifer (ESPA) GWMA that reduce incidental recharge must additionally show how the project will support aquifer stabilization efforts
  6. Project timeline, including start and completion date
  7. Detailed cost estimates, including all labor and materials. In-kind work must be detailed and included in cost estimates.
    - Water efficiency projects that reduce incidental recharge within a GWMA or CGWA must break out costs not associated with reductions to incidental recharge separately to be considered for partial funding
  8. Entity’s relevant experience or contractor’s relevant experience completing stream channel repair or improvement projects

1.9. Summary table that documents cost-share percentage for each funding source including in-kind work. If other grants are required to complete the project (USACE, NRCS, FEMA, etc.), include timelines for receiving those funds

~~• Addresses all **evaluation criteria** described below~~

• **Required regulatory approval** and permit documents; if project has not yet received permit documents, note this in the application's project schedule.

• **Proof of liability insurance for general construction, i.e., ICRMP.**

• **Completed Applicant Information Sheet provided by IWRB.**

•

• Addresses all **evaluation criteria** described below.

**Evaluation Criteria:** Grant applications submitted by an eligible ~~entities~~ entity for an eligible projects will be evaluated, scored (*120-point scale*), and ranked according to the following criteria. Applications that do not meet the eligibility requirements will not be scored and will be returned. Project scoring will be used to prioritize funding. Applications shall discuss how the project under consideration meets the evaluation criteria.

**Project Details (up to 50 points)**

- Eligible entity~~Project applicant~~: Description of the applicant~~eligible entity~~ that includes organization type, background, revenue sources, and current operations. (*10 points*)
- Project proposal: Description of the project, where it will occur, and its benefits. Include pictures of the existing infrastructure (if applicable), and detailed map(s) of the project area that have a legend, county, and coordinate or PLS (Township, Range, Section) information. (*10 points*)
- Project schedule: The project's timeline of important milestones, such as obtaining funds, permitting, and construction. The time to complete the project is irrelevant, grading only pertains to the quality of the schedule. (*10 points*)
- Plans and specifications: Relevant drawings and material specifications for construction. (*10 points*)
- Project team: The organization(s) and personnel involved in completing the project. Provide the roles, time commitment, and relevant experience. (*10 points*)

**Urgency of Project (up to 20 points)**

- Urgency of the project (e.g., infrastructure age, infrastructure function) (*20 points*)

**Public Interest of Project (up to 30 points)**

- Economic values supported by the existing and/or additional infrastructure. This includes consideration of the communities, irrigated acres, provision of water for future development and economic activity served by the water infrastructure. (*15 points*)
- Uses/benefits identified in Section 42-1760(2)(d), Idaho Code. (*15 points*):
  - water quality
  - fish and wildlife
  - recreation
  - hydropower
  - water supply stability and sustainability
  - drought resiliency
  - public safety

-other benefits to the citizens of the State

-Water efficiency projects that reduce incidental recharge within a groundwater management area (GWMA) or critical groundwater area (CGWA) must provide a mitigation plan or component that results in a zero net impact, and the project is not inconsistent with the State Water Plan. Project locations within the Eastern Snake Plain Aquifer (ESPA) GWMA that reduce incidental recharge must additionally show how the project will support aquifer stabilization efforts

**Budget Planning and Cost-Effectiveness (up to 20 points)**

- Cost-effectiveness of the project compared to other options explored by the ~~applicant~~eligible entity. (10 points)
- Cost estimate describing all foreseen costs of materials and labor, as well as justification for those costs. Include all sources of funding for the project and their amounts. (10 points)
  - Water efficiency projects that reduce incidental recharge within a GWMA or CGWA must break out costs not associated with reductions to incidental recharge separately to be considered for partial funding

**Application Submission:**

- Applications can be emailed to [IWRBGrants@idwr.idaho.gov](mailto:IWRBGrants@idwr.idaho.gov). Applications that are emailed must be received by the application due date.
- Applications that are mailed must be received by 11:59 pm on the application due date. Mailing address:

ATTENTION: IWRB GRANTS TEAM  
IDAHO DEPARTMENT OF WATER RESOURCES  
PO BOX 83720  
BOISE, ID 83720-0098
- Applications can also be dropped off in person on the 6th floor of the Idaho Water Center in Boise. Applications must be dropped off on weekdays, excluding holidays, between the hours of 8:00am and 5:00pm. The Idaho Water Center is located at:

IDAHO WATER CENTER  
322 E FRONT ST STE 648  
BOISE, ID 83702-7371

**Grant Process:**

- IWRB staff evaluate and score applications based on IWRB approved evaluation criteria
- IWRB staff presents funding recommendations to IWRB Finance Committee
- Funding awarded at ~~the~~ a regular IWRB meeting
- IWRB staff will notify ~~project applicants~~ eligible entity of grant approval and will administer cost-reimbursement contracts
- ~~IWRB will reimburse grantees for project costs upon submittal of funding reimbursement request~~

**Additional Conditions of Award:**

Funding may be reallocated if:

- Requested information necessary to develop a contract is not received from the project Awardee within 90 days of the award dated resolution
- A proposed contract is not signed and returned within 60 days of issuance
- If the project is not completed within the award contract term
- The contract expires without a renewal or extension request from the awardee

**Cost-Reimbursement Process:**

- Awardee must be registered with the Idaho Secretary of State (SCO) in IPRO Supplier Portal and in PaymentWorks, See "Action Center" on the homepage of SCO at <https://www.sco.idaho.gov/LivePages/scohome.aspx>
- ~~Funds will be distributed upon the applicant-awardee submitting an IWRB acceptable funding reimbursement requests to the IWRB.~~
- Reimbursement of invoices will not surpass 50% of the invoice amount ("Reimbursable Funds") submitted to IWRB staff. Of the Reimbursable Funds, 10% of the funds will be retained until Awardee submits a certificate of completion.
- ~~The applicant's funding requests shall include a cover letter which shall include a description of the project activities, dates for performing the project activities, and contractor or supplier invoices~~
- The ~~Board~~ IWRB and IDWR staff will review and upon approval, pay invoices in accordance with Idaho Code § 67-2302
- In-kind services, labor, and materials must be invoiced to the ~~applicant~~ IWRB to be eligible for reimbursement
- The ~~Board~~ IWRB shall determine the value of in-kind contributions of materials and labor
- Invoices should be sent to [IdwrPayable@idwr.idaho.gov](mailto:IdwrPayable@idwr.idaho.gov)
- A certificate of project completion and a financial summary of the total project cost shall be issued-submitted by the applicant-awardee in order to receive final reimbursement

**In-kind Matching Funds Documentation.** In-kind matching contributions must be adequately documented and verifiable from the awardee's official records. Documentation must be sufficient to answer the following:

- Awardee must be able to demonstrate that the contribution is from an acceptable source.
- Awardee must be able to demonstrate what is being used as match is suitable for match.
- The IWRB shall determine the value of the in-kind contribution
  - Awardee is responsible for providing accurate documentation to support their in-kind valuation
  - Value shall be based on standard objective sources rather than awardees' estimate
- Awardee must certify that the information is correct and IWRB must review and approve

Accounting records must be supported by source documentation such as vouchers, canceled checks, invoices, payroll, time and attendance records, contract and sub-grant award documents, or other required forms.

**Force account labor and equipment.** The use of the awardee's staff (labor) and/or equipment costs must be verifiable from the awardee's accounting system. For labor, the records must include: the name

of each worker, dates worked, hourly rate of pay, number of hours worked specific to the grant activity, and the total cost for each worker. Documentation of equipment costs must include the type of equipment used, dates used, hourly rate value, number of hours used, how the hourly rate was determined and total cost.

Donated contract labor and volunteer services may be counted as matching share if they are an integral and necessary part of the approved work.

- Rates claimed for volunteer services must be consistent with those rates paid for similar work in other activities and must not include fringe benefits and overhead costs.
- Match must be documented and, to the extent feasible, supported by the same methods used by the awardee for its own employees.
- At minimum this includes signed and dated time sheets filled out by volunteers working and approved by the supervisor with first-hand knowledge of the activity

**Application Submission:**

- ~~Applications can be emailed to [IWRBGrants@idwr.idaho.gov](mailto:IWRBGrants@idwr.idaho.gov)~~
- ~~Applications that are mailed must be received by 11:59 pm on the application due date. Mailing address:  
ATTENTION: GRANTS TEAM  
IDAHO DEPARTMENT OF WATER RESOURCES  
PO BOX 83720  
BOISE, ID 83720-0098~~
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IDAHO WATER CENTER  
322 E FRONT ST STE 648  
BOISE, ID 83702-7371~~

**IWRB Districts are as follows:**

District No. 1: Boundary, Bonner, Kootenai, Shoshone, Benewah, Latah, Clearwater, Nez Perce, Lewis and Idaho counties.

District No. 2: Adams, Valley, Washington, Payette, Gem, Boise, Canyon, Ada, Elmore and Owyhee counties.

District No. 3: Camas, Gooding, Jerome, Twin Falls, Cassia, Blaine, Lincoln, Minidoka, Lemhi, Custer and Butte counties.

District No. 4: Clark, Fremont, Jefferson, Madison, Teton, Bingham, Bonneville, Power, Bannock, Caribou, Oneida, Franklin and Bear Lake counties.

*\* No more than 50% of the total budget may be spent within a single IWRB district. This limit may be waived if there are no competing funding demands.*



## **IWRB ESPA Groundwater to Surface Water Conversion Grant Criteria**

The Idaho Water Resource Board (IWRB) is offering grant funding to be used for water projects targeted at converting lands irrigated from groundwater to surface water irrigation (Conversion Projects).

[Projects that convert irrigated lands from groundwater to surface water irrigation support the Idaho economy, provide economic value, and ensure long-term water resource stability and sustainability. The IWRB has developed these criteria to provide financial assistance on a competitive basis through grants to eligible entities interested in pursuing eligible projects to convert existing irrigated lands from groundwater to surface water irrigation.](#)

**Eligible Projects:** Projects located in eligible geographic areas that propose to convert from groundwater to surface water irrigation. “Hard Conversions” are projects that would permanently convert to the use of surface water. “Soft Conversions” ~~projects~~ would partially convert to the use of surface water but may have to use groundwater when surface water is not available.

### **Ineligible Projects:**

- [Projects that are already completed or underway by the application deadline](#)

**Eligible Entities:** Groundwater Districts, Irrigation Districts, Irrigation Boards of Control, Canal Companies, [and Municipalities](#). Individuals must apply through one of the eligible entities.

**Eligible Geographic Area:** Eastern Snake Plain Aquifer (ESPA) area of common groundwater supply

### **Funding Details:**

#### **Grant Considerations:**

- IWRB grant portion cannot exceed (50%) of total project costs for soft conversions. IWRB grant portion cannot exceed (75%) of total project costs for hard conversions.
- Must agree to cease pumping the proposed portion of groundwater related to project and that delivered conversion water will be used only on lands with an existing groundwater right tied to this project. Groundwater rights previously used on the conversion project lands cannot be put in the Water Bank for lease.
- [If project construction is underway or completed by the application deadline the project is not eligible for this funding opportunity. ~~Although p~~Projects that have previously been awarded conversion grant funding are eligible to apply for additional funding.](#)
- [Costs incurred prior to the grant award date are not eligible for reimbursement](#)

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- Reimbursement requests can be made once a cost-reimbursement contract is established between the awardee and IWRB
- Reimbursement of invoices will not surpass 50% for soft and 75% for hard conversions of the invoice amount ("Reimbursable Funds") submitted to Board Staff. Of the Reimbursable Funds, 10% will be retained until Sponsor submits a certificate of completion.
- Contract term will not exceed 3 years after the grant funding award (date of IWRB Resolution) unless an extension is approved by IWRB's contract manager.
- Funds may be reallocated if a project is not completed within the term of the cost-reimbursement contract, or if the awardee does not provide contract development information requested within 90 days after the grant award date

**Grant Application Requirements:** For the grant proposal to be considered, the following must be provided: ~~Grant applications will require the applicant to provide the following information:~~

- ~~— Project background (infrastructure description, repair, rehabilitation, improvement needs/objectives/benefits)~~
- A cover letter that is addressed to the IWRB and with the eligible entity's letterhead. The letter must contain a project summary and the project manager's contact information. The summary must include the funding request dollar amount and expected total project cost, as well as all other funding sources.
- An application containing the following:
  - 1. Project sponsor (eligible entity) description (organization type, background, revenue sources, current operations)
  - 2. Project description (narrative, infrastructure description, repair, rehabilitation, improvement needs/objectives/benefits, ~~map~~, 30% design plans ~~and cost estimates~~, land entitlements at project location, description of any known environmental issues).
  - 3. Project location (county, water source, PLS and/or Lat/Long), including map
  - ~~1. — Project timeline, including start and completion date~~ ~~Project budget and implementation schedule~~
  - 4.
  - 5. Detailed cost estimates, including all labor and materials. In-kind work must be detailed and included in cost estimates.
  - 6. Summary table that documents cost-share percentage for each funding source including in-kind work. If other grants are required to complete the project (USACE, NRCS, FEMA, etc.), include timelines for receiving those funds. ~~Project funding sources (IWRB grant, other state and federal grants, sponsor's contribution)~~
- ~~If not directly diverting from a river, d~~ Documentation is required from **Irrigation District/Canal Company of support** for the project **and agreement to deliver** the surface water supply for the conversion project ~~If not directly diverted from a river,~~ **and including** documentation of long-term leases, storage water, existing shares, etc. to support the proposed project. Documentation should address the term of the surface water delivery agreement and how often water will be available to support the project.

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- Documentation from Groundwater District of support for the project and agreement to administer the pumping reduction.
- List of groundwater rights on conversion project lands
- Proof of liability insurance for general construction, i.e., ICRMP.
- Completed Applicant Information Sheet provided by IWRB.
- Addresses all evaluation criteria described below.

**Evaluation Criteria:** To maximize the effective and efficient use of available funds, grant applications submitted by eligible entities for eligible projects will be evaluated, scored (*100-point scale*), and ranked according to the following criteria. Applications that do not meet the eligibility requirements will not be scored and will be returned. Project scoring will be used to prioritize funding. Applications shall discuss how the project under consideration meets the evaluation criteria.

**Benefits/Effectiveness (Up to 75 points)**

- Project with a greater percentage of pumping offset will receive more points. (~~up to 15 points~~)
- The application demonstrates a reduction in average annual groundwater pumping in acre-feet associated with this project. (~~Up to 10 points~~)
- -The applicant demonstrates the dependability of the surface water supply in terms of quantity and seasonal availability. (~~up to 5 points~~)
- Applicant ~~has demonstrated~~ is aquifer storage benefits and/or reach gain benefits associated with the project? Applicants should submit modeling results to support their claims. (~~up to 20 points~~)
- The applicant demonstrates the project involves multiple entities, or ~~is~~ the project is regionally focused. (~~up to 5 points~~)
- The project includes a recharge component. (~~up to 10 points~~)
- ~~More points for c~~ Conversions that are greater than 85% efficient will receive more points. (~~up to 10 points~~)

**Project Proposal Clarity and Detail (up to 15 points)**

- Clarity and detail of project proposal and location: need, description, budget and benefits, detailed map(s) of project area that have a legend, county, and coordinate or PLS (Township, Range, Section) information. (~~up to 5 points~~)
- ~~Plans and specifications included with the grant application (up to 5 points)~~
- Description of the personnel (entity's employees, contractors and/or volunteers) that will plan, design, construct and implement the proposed project (descriptions may include the number, qualifications (resumes if applicable) and time of personnel that will be involved in the project. (5 points)
- ~~Description of the personnel (sponsor employees, contractors and/or volunteers) that will plan, design, construct and implement the proposed project (descriptions may include the number, qualifications (resumes if applicable) and time of personnel that will be involved in the project. (up to 5 points)~~

**Urgency of Project (up to 10 points)**

- Urgency of the project – The project is necessary to avoid curtailment or to help support a settlement (10 points)

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~~Urgency of Project (up to 10 points)~~

- ~~• Urgency of the project—The project is necessary to avoid curtailment or to help support a settlement (up to 10 points)~~

**Application Submission Submittal:**

- Applications can be emailed to [IWRBGrants@idwr.idaho.gov](mailto:IWRBGrants@idwr.idaho.gov). Applications that are emailed must be received by ~~11:59 pm on~~ the application due date.

- Applications that are mailed must be received ~~by 11:59 pm~~ on the application due date. Mailing address:

ATTENTION: [IWRB](#) GRANTS TEAM  
IDAHO DEPARTMENT OF WATER RESOURCES  
PO BOX 83720  
BOISE, ID 83720-0098

- Applications can also be dropped off in person on the 6th floor of the Idaho Water Center in Boise. Applications must be dropped off on weekdays, excluding holidays, between the hours of 8:00am and 5:00pm. The Idaho Water Center is located at:

IDAHO WATER CENTER  
322 E ~~FRONT~~ Front St, Suite 648  
~~BOISE~~ Boise, ID 83702-7371

**Grant Process:**

- [IWRB staff evaluate and score applications based on IWRB approved evaluation criteria](#)
- [IDWR staff will perform modeling of application conversion scenario to calculate benefit](#)
- IWRB staff present funding recommendations to IWRB Finance Committee
- Funding awarded at a regular IWRB meeting
- [IWRB staff will notify project applicants of grant approval and will administer cost-reimbursement contracts](#)

**Additional Conditions of Award:**

[Funding may be reallocated if:](#)

- [Requested information necessary to develop a contract is not received from the project Awardee within 90 days of the award dated resolution](#)
- [A proposed contract is not signed and returned within 60 days of issuance](#)
- [If the project is not completed within the award contract term](#)
- [The contract expires without a renewal or extension request from the Awardee](#)

- ~~• IWRB will reimburse grantees for project costs upon submittal of funding reimbursement request~~

**Cost-Reimbursement Process:**

- [Awardee must be registered with the Idaho Secretary of State \(SCO\) in IPRO Supplier Portal and in PaymentWorks, See "Action Center" on the homepage of SCO at <https://www.sco.idaho.gov/LivePages/scohome.aspx>](#)
- Funds will be distributed upon ~~Awardee applicant~~ submitting [an IWRB acceptable](#) funding

May 2025

May 2026

reimbursement requests to the IWRB

- Reimbursement of invoices will not surpass 50% for soft conversions and 75% for hard conversions of the invoice amount (“Reimbursable Funds”) submitted to IWRB staff. Of the Reimbursable Funds, 10% of funds will be retained until Awardee submits a certificate of completion.
- The IWRB and IDWR staff will review and upon approval, pay invoices in accordance with Idaho Code § 67-2302
- ~~Applicant funding requests shall include a cover letter which shall include a description of the project activities, dates for performing the project activities, and contractor or supplier invoices~~
- In-kind services, labor, and materials must be invoiced to ~~applicant~~ IWRB to be eligible for reimbursement
- The IWRB shall determine the value of in-kind contributions of materials and labor
- Invoices should be sent to [IdwrPayable@idwr.idaho.gov](mailto:IdwrPayable@idwr.idaho.gov)
- ~~—~~
- A certificate of project completion and a financial summary of the total project cost shall be submitted by the ~~shall be issued by the applican~~ Awardee~~t~~ in order to receive final reimbursement

**In-kind Matching Funds Documentation.** In-kind matching contributions must be adequately documented and verifiable from the Awardee’s official records. Documentation must be sufficient to answer the following:

- Awardee must be able to demonstrate that the contribution is from an acceptable source.
- Awardee must be able to demonstrate what is being used as match is suitable for match.
- The IWRB shall determine the value of the in-kind contribution
  - Awardee is responsible for providing accurate documentation to support their in-kind valuation
  - Value shall be based on standard objective sources rather than awardees’ estimates
- Awardee must certify that the information is correct and IWRB must review and approve

Accounting records must be supported by source documentation such as vouchers, canceled checks, invoices, payroll, time and attendance records, contract and sub-grant award documents, or other required forms.

**Force account labor and equipment.** The use of the Awardee’s staff (labor) and/or equipment costs must be verifiable from the Awardee’s accounting system. For labor, the records must include: the name of each worker, dates worked, hourly rate of pay, number of hours worked specific to the grant activity, and the total cost for each worker. Documentation of equipment costs must include the type of equipment used, dates used, hourly rate value, number of hours used, how the hourly rate was determined and total cost.

**Donated contract labor and volunteer services** may be counted as matching share if they are an integral and necessary part of the approved work.

- Rates claimed for volunteer services must be consistent with those rates paid for similar work in other activities and must not include fringe benefits and overhead costs.
- Match must be documented and, to the extent feasible, supported by the same methods used by the Awardee for its own employees.
- At minimum this includes signed and dated time sheets filled out by volunteers working and approved by the supervisor with first-hand knowledge of the activity



## IWRB Measuring & Monitoring Support Grant Criteria **Memorandum**

To: ~~File~~

From: ~~Justin Ferguson, Project Manager~~

Date: ~~May 16, 2025~~

Re: ~~SWC Monitoring Support Grant Program Administration Guidelines and Qualification Criteria~~

### **~~Program Description~~**

The Idaho Water Resource Board (IWRB) has allocated funding to continue to promote water conservation efforts throughout the [state of Idaho Eastern Snake River Plain \(ESPA\)](#) through the purchase and installation of monitoring equipment, measurement devices, or other supportive infrastructure for ground and surface water diversions.

Funding under this program seeks to continue and expand upon the previous Telemetry grant utilizing funding from the Bureau of Reclamation.

~~The contracts for this program will be a cost-reimbursement contract, with invoices to be submitted to Staff for review and approval.~~

~~Note:~~ Measurement and monitoring equipment must meet current Idaho Department of Water Resources Standards ~~add link to IDWR~~ [IDWR Water Measurement Information](#)

### **~~Qualification Criteria~~**

**Eligible Projects:** Projects considered under this program are for the purchase and installation of monitoring and measurement equipment for both surface and groundwater diversions. ~~within the ESPA. Projects that are completed by the application deadline are not eligible for this program.~~

*Example projects: New monitoring wells, flumes, weirs, telemetry equipment, software development, automation equipment, etc.*

### **Ineligible Projects:**

- Projects that are completed by the application deadline are not eligible for this program.

**Eligible Entities:** Irrigation Districts, Irrigation Boards of Control, Canal Companies, Drainage Districts, Groundwater Districts, Ditch Companies, Lateral Ditch Users Associations, Reservoir Districts, Municipal Irrigation Districts (formed per Title 42, chapter 18, Idaho Code), Municipalities, Counties, and Water Districts. [Individuals must apply through one of the eligible entities.](#)

**Eligible Geographic Area:** [Statewide](#), ~~Limited to diversions within~~ [with preference for projects in response to an active](#)

measurement order issued by the IDWR Director. ~~the Eastern Snake River Plain Aquifer Area of Common Groundwater Supply~~

**Award Limit Funding Details:**

— Funding Details: ~~under this program will be limited to 50% of project costs u~~Up to a maximum of

- \$250,000 per project; one project per application
- IWRB grant portion cannot exceed 50% of total project costs
- Reimbursement requests can be made once a cost-reimbursement contract is established between the applicant and IWRB
- Reimbursement of invoices will not surpass 50% of the invoice amount (“Reimbursable Funds”) submitted to Board Staff. Of the Reimbursable Funds, 10% will be retained until Sponsor submits a certificate of completion.
- Contract term will not exceed 3 years after the grant funding award (date of IWRB Resolution) unless an extension is approved by IWRB’s contract manager.
- Funds may be reallocated if a project is not completed within the term of the cost-reimbursement contract, or if the awardee does not provide contract development information requested within 90 days after the grant award date

**Application Requirements:** For the grant proposal to be considered, the following must be provided:

- A **cover letter** that is addressed to the IWRB and with the eligible entity’s letterhead. The letter must contain a project summary and the project manager’s contact information. The summary must include the funding request dollar amount and expected total project cost, as well as all other funding sources.
- An **application** containing the following:
  1. Project sponsor (eligible entity) description (organization type, background, revenue sources, current operations)
  2. Project description (narrative, conceptual plan and design, land entitlements at project location, description of any known environmental issues).
  3. Project location (county, water source, map with legend and PLS (Township, Range, Sections) or Lat/Long)
  4. Detailed cost estimate and budget, including labor and materials. In-kind work must be detailed and included in cost estimates.
  5. Project funding sources (IWRB grant, other state and federal grants, sponsor’s contribution)
  6. Project timeline and implementation schedule
- **Proof of liability** insurance for general construction, i.e., ICRMP.
- **Completed Applicant Information Sheet** provided by IWRB.
- Addresses all **evaluation criteria** described below.

— **Evaluation Criteria:** To maximize the effective and efficient use of available funds, grant applications submitted by eligible entities for eligible projects will be evaluated, scored (100-point scale) according to the following criteria. Applications that do not meet the eligibility requirements will not be scored and will be returned. Project scoring may be used to prioritize funding. The application shall discuss how the project

**Project Funding Method**

~~1 | Page~~

~~Proposals~~ for the purchase of and/or the installation of monitoring equipment, measurement devices, or supporting infrastructure ~~will be scored on the~~ [meets the](#) following criteria:

[Measurement Order \(up to 10 points\)](#)

- [The applicant is complying with an active measurement order issued by the IDWR Director \(10 points\)](#)

~~How Does This Project Promote Goals Under the 2024 SWC/Ground Water District Settlement Agreement in~~ [the ESPA \(up to 30 points\)](#)

- ~~30 points can be awarded if t~~ [The applicant can demonstrate how this project will further agreement priorities regarding water resources. \(30 points\)](#)

[Equipment Installation \(up to 20 points\)](#)

- ~~Up to 20 points can be awarded if this is a~~ [new install of monitoring, telemetry, and/or measurement equipment on the Sponsor's diversion works. \(20 points\); or](#)
- ~~Up to 10 points can be awarded if this is a~~ [retrofit of existing monitoring, telemetry and/or measurement equipment already installed on the Sponsor's diversion works. \(10 points\)](#)

[Project Implementation Schedule \(up to 20 points\)](#)

- ~~20 points can be awarded if t~~ [The project will be completed in 1 year; \(20 points\) or](#)
- ~~10 points can be awarded if t~~ [The project will be completed in 2 years; \(10 points\) or](#)
- ~~5 points can be awarded if t~~ [The project will be completed in subsequent years. \(5 points\)](#)

~~Description of Equipment Installed~~

- ~~5 points can be awarded if the Sponsor is able to provide a description of the equipment being installed~~

[Project Proposal & Clarity \(up to 20 points\)](#)

- ~~Up to 10 points can be awarded if the Sponsor provides a~~ [Clarity and d](#) ~~description of the Project; and identifies the Project's need, proposed budget, and public interest. (10 points)~~
- ~~Up to 5 points can be awarded if the Sponsor can provide p~~ [Plans, timeline, and drawings for the Project. \(5 points\)](#)
- [Description of the equipment being installed. \(5 points\)](#)

[Application Submittal:](#)

[Completed applications can be emailed to the Idaho Water Resource Board's Grants Team at IWRBGrants@IDWR.Idaho.gov and must be received by the application date.](#)

[Applications that are mailed must be postmarked by the application date. Mailing Address:](#)

[ATTN: IWRB GRANTS TEAM - MONITORING & SUPPORT GRANT TEAM](#)  
[IDAHO DEPARTMENT OF WATER RESOURCES](#)  
[PO BOX 83720](#)  
[BOISE, ID 83720](#)

[Applications can also be dropped off in person on the 6<sup>th</sup> floor of the Idaho Water Center in Boise, ID, and must be received by 5:00 pm on the application date. The Idaho Water Center is located at:](#)

[IDAHO WATER CENTER](#)  
[322 E. Front Street, Suite 648](#)  
[Boise, ID 83702-7371](#)

[For questions on the application package or to schedule a meeting with the Grants Team, email us at](#)

[IWRBGrants@IDWR.Idaho.gov](mailto:IWRBGrants@IDWR.Idaho.gov) and please specify the Monitoring & Support Grant Program.

### **Grant Application Requirements**

- ~~Grant applications will require the applicant to provide:~~
- ~~Project background (infrastructure description, repair, rehabilitation, improvement needs/objectives/benefits)~~
- ~~Project sponsor description (organization type, background, revenue sources, current operations)~~
- ~~Project description (narrative, map, conceptual plan and design, land entitlements at project location, description of any known environmental issues).~~
- ~~Cost estimate and budget~~
- ~~Project funding sources (IWRB grant, other state and federal grants, sponsor's contribution)~~
- ~~Project implementation schedule~~

### **Grant Process:**

- [IWRB staff evaluate and score applications based on IWRB approved evaluation criteria](#)
- [IDWR staff will perform modeling of application conversion scenario to calculate benefit](#)
- [IWRB staff present funding recommendations to IWRB Finance Committee](#)
- [Funding awarded at a regular IWRB meeting](#)
- [IWRB staff will notify project applicants of grant approval and will administer cost-reimbursement contracts](#)

### **Additional Conditions of Award:**

[Funding may be reallocated if:](#)

- [Requested information necessary to develop a contract is not received from the project Awardee within 90 days of the award dated resolution](#)
- [A proposed contract is not signed and returned within 60 days of issuance](#)
- [If the project is not completed within the award contract term](#)
- [The contract expires without a renewal or extension request from the Awardee](#)

### **Cost-Reimbursement Process:**

- [Awardee must be registered with the Idaho Secretary of State \(SCO\) in IPRO Supplier Portal and in PaymentWorks, See "Action Center" on the homepage of SCO at <https://www.sco.idaho.gov/LivePages/scohome.aspx>](#)
- [Funds will be distributed upon Awardee submitting an IWRB acceptable funding reimbursement request to the IWRB](#)
- [Reimbursement of invoices will not surpass 50% of the invoice amount \("Reimbursable Funds"\) submitted to IWRB staff. Of the Reimbursable Funds, 10% of funds will be retained until Awardee submits a certificate of completion.](#)
- [The IWRB and IDWR staff will review and upon approval, pay invoices in accordance with Idaho Code § 67-2302](#)
- [In-kind services, labor, and materials must be invoiced to IWRB to be eligible for reimbursement](#)
- [The IWRB shall determine the value of in-kind contributions of materials and labor](#)
- [Invoices should be sent to \[IdwrPayable@idwr.idaho.gov\]\(mailto:IdwrPayable@idwr.idaho.gov\)](#)

- A certificate of project completion and a financial summary of the total project cost shall be submitted by the Awardee in order to receive final reimbursement

**In-kind Matching Funds Documentation.** In-kind matching contributions must be adequately documented and verifiable from the Awardee's official records. Documentation must be sufficient to answer the following:

- Awardee must be able to demonstrate that the contribution is from an acceptable source.
- Awardee must be able to demonstrate what is being used as match is suitable for match.
- The IWRB shall determine the value of the in-kind contribution
  - Awardee is responsible for providing accurate documentation to support their in-kind valuation
  - Value shall be based on standard objective sources rather than awardees' estimates
- Awardee must certify that the information is correct and IWRB must review and approve

Accounting records must be supported by source documentation such as vouchers, canceled checks, invoices, payroll, time and attendance records, contract and sub-grant award documents, or other required forms.

**Force account labor and equipment.** The use of the Awardee's staff (labor) and/or equipment costs must be verifiable from the Awardee's accounting system. For labor, the records must include: the name of each worker, dates worked, hourly rate of pay, number of hours worked specific to the grant activity, and the total cost for each worker. Documentation of equipment costs must include the type of equipment used, dates used, hourly rate value, number of hours used, how the hourly rate was determined and total cost.

**Donated contract labor and volunteer services** may be counted as matching share if they are an integral and necessary part of the approved work.

- Rates claimed for volunteer services must be consistent with those rates paid for similar work in other activities and must not include fringe benefits and overhead costs.
- Match must be documented and, to the extent feasible, supported by the same methods used by the Awardee for its own employees.
- At minimum this includes signed and dated time sheets filled out by volunteers working and approved by the supervisor with first-hand knowledge of the activity

### **Program Administration**

~~Contracts under this program will be a 50% cost share of the total project costs. A final accounting of all funding sources used on the project may be requested by Staff at the end of the project for verification.~~

~~Funding may be reallocated if the contract expires without a renewal notification from the recipient, if an executed contract isn't received within 60 days of issuance, or if the project is not completed within the award contract duration.~~

### **Application Process**

~~Staff will review the funding request and, when necessary, schedule a meeting with the applicant to discuss the information provided. For a request to be considered complete, all sections of the application must be filled out, with supporting documentation provided where necessary. All incomplete applications will be declined and returned to the applicant; at which time a new, complete application must be submitted.~~

~~Funding requests will be presented to the IWRB Finance Committee for a recommendation at a scheduled meeting between the close of applications and the November IWRB meeting. Upon the receipt of a favorable recommendation, Staff will take the request to the IWRB for approval via funding resolution.~~

~~Funding request applications that do not receive funding or do not receive a favorable recommendation will be declined and returned to the applicant. An unfavorable recommendation or incomplete application does not prevent applicants from applying in subsequent funding rounds.~~

#### ~~Grant Submission~~

~~Completed applications can be emailed to the Idaho Water Resource Board's Grants Team at [IWRBGrants@IDWR.Idaho.gov](mailto:IWRBGrants@IDWR.Idaho.gov) and must be received by 5:00 pm on the application date. Physical copies must be postmarked by the application date and can be mailed to:~~

~~Idaho Department of Water Resources~~

~~Attn: IWRB Grants Team – Monitoring & Support Grant Team~~

~~P.O. Box 83720~~

~~Boise, ID 83720~~

~~Applications can also be dropped off in person on the 6<sup>th</sup> floor of the Idaho Water Center in Boise, ID, and must be received by 5:00 pm on the application date. The Idaho Water Center is located at:~~

~~322 E. Front Street Suite 648~~

~~Boise, ID 83702-7371~~

~~For questions on the application package or to schedule a meeting with the Grants Team, email us at [IWRBGrants@IDWR.Idaho.gov](mailto:IWRBGrants@IDWR.Idaho.gov) and please specify the Monitoring & Support Grant Program.~~

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Neeley Miller, Senior Planner  
**Date:** May 4, 2026  
**Subject:** Proposed Secondary Aquifer Planning, Management & Implementation Fund – Fiscal Year 2027 Budget

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**REQUESTED ACTION:** Fiscal Year (FY) 2027 Secondary Aquifer Fund Budget Recommendation

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Planning and Projects Bureau staff will discuss the FY 2027 proposed budget for the Secondary Aquifer Planning, Management & Implementation Fund (Secondary Aquifer Fund).

**Attachments:**

- *Resolution with Attachment A: Proposed Secondary Aquifer Fund – FY 2027 Budget*

**BEFORE THE IDAHO WATER RESOURCE BOARD**

IN THE MATTER OF STATEWIDE WATER  
SUSTAINABILITY AND AQUIFER STABILIZATION,  
AND THE SECONDARY AQUIFER PLANNING,  
MANAGEMENT, AND IMPLEMENTATION FUND  
FISCAL YEAR 2027 BUDGET

RESOLUTION TO PASS FISCAL YEAR 2027  
BUDGET

1 WHEREAS, the Idaho Legislature, pursuant to Idaho Code § 63-2520, directs certain Cigarette Tax  
2 revenues to the Idaho Water Resource Board’s (IWRB) Secondary Aquifer Planning, Management, and  
3 Implementation Fund (Secondary Aquifer Fund); and  
4

5 WHEREAS, through House Bill 547 (2014) the Legislature allocated \$5 million annually through  
6 2019 from such revenues for aquifer stabilization, and through House Bill 256 (2019) established an  
7 ongoing \$5 million General Fund appropriation to the Secondary Aquifer Fund for statewide water  
8 sustainability and aquifer stabilization, with unallocated funds carried forward into Fiscal Year 2027; and  
9

10 WHEREAS, many aquifers across Idaho—including the Eastern Snake Plain, Mountain Home,  
11 Wood River Valley, Big Lost, Raft River, Malad Valley, Treasure Valley, Rathdrum Prairie, Palouse Basin,  
12 and Lewiston Plateau aquifers—are declining or face existing or potential conjunctive administration  
13 conflicts, resulting in groundwater conditions insufficient to sustain irrigation, hydropower, municipal,  
14 industrial, and other uses, the curtailment of which would cause severe economic harm to Idaho’s  
15 economy; and  
16

17 WHEREAS, Senate Concurrent Resolution 137 (2016) recognizes aquifer stabilization and  
18 enhancement as in the public interest and directs the IWRB to take actions in aquifers across the state to  
19 stabilize and enhance aquifer levels thereby maintaining water supply for consumptive and non-  
20 consumptive uses and minimizing harm to Idaho’s economy arising from water supply shortages; and  
21

22 WHEREAS, the State of Idaho (State) relies on spring discharge from the Eastern Snake Plain  
23 Aquifer (ESPA), including flows at Thousand Springs, to meet minimum streamflow water rights at the  
24 Murphy Gage under the Swan Falls Agreement. Prior to significant stabilization efforts around 2014, the  
25 ESPA was losing approximately 216,000 acre-feet annually from aquifer storage since the 1950’s, resulting  
26 in declining ground water levels and spring flows, and flows at the Murphy Gage approaching minimums  
27 in 2013–2014 and falling below minimums in 2015; and  
28

29 WHEREAS, conjunctive administration conflicts in the ESPA over the past two decades posed  
30 significant economic risk, leading to the June 30, 2015, agreement between the Idaho Ground Water  
31 Appropriators and the Surface Water Coalition to reduce consumptive use by 240,000 acre-feet annually  
32 and take other actions, supported by Senate Concurrent Resolution 138 (2016); and

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WHEREAS, Senate Concurrent Resolution 136 (2016) directed the IWRB to develop the capacity to achieve 250,000 acre-feet of annual average managed recharge to the ESPA by December 31, 2024. Subsequent agreements, including a 2018 agreement with ESPA cities (supported by House Concurrent Resolution 10 (2019)), and the combined actions of demand reduction and managed recharge are intended to stabilize and recover the ESPA; and

WHEREAS, on November 15, 2024, the Surface Water Coalition and Ground Water Districts on the Eastern Snake Plain Aquifer (ESPA) entered into a settlement agreement (2024 Stipulated Mitigation Plan) establishing a mitigation framework of groundwater use reductions, storage water deliveries, and managed aquifer recharge, aligned with the State of Idaho’s objective to increase recharge from 250,000 to an annual average of 350,000 acre-feet; and Senate Concurrent Resolution 110 (2025) expresses legislative support for the agreement and the IWRB’s efforts to address water supply challenges and expand aquifer recharge; and

WHEREAS, on November 21, 2026, the IWRB adopted amendments to State Water Plan policies 4B, 4D, and 4E and the ESPA Comprehensive Aquifer Management Plan (Resolution 53-2025) to increase the goal for state-funded managed aquifer recharge to an annual average of 350,000 acre-feet, which became effective following submission to the 2026 Legislature; and

WHEREAS, the Department of Water Resources has designated Ground Water Management Areas in multiple basins, including the Eastern Snake Plain, Big Wood River, Malad Valley, Mountain Home and the Lewiston Plateau Aquifers, in response to declining ground water levels; and

WHEREAS, on May 8, 2026, the IWRB Finance Committee recommended the approval of a Fiscal Year 2027 Budget for the use of available funds in the Secondary Aquifer Fund for statewide water sustainability and aquifer stabilization purposes; and

NOW THEREFORE BE IT RESOLVED that the IWRB adopts the Fiscal Year 2027 Budget for the continuously appropriated Secondary Aquifer Planning, Management, and Implementation Fund as shown in Attachment A to this resolution.

BE IT FURTHER RESOLVED that the budget may be adjusted based on actual Cigarette Tax revenues received Idaho Code § 63-2520, interest earnings, and Fiscal Year 2026 carryover. BE IT FURTHER RESOLVED that expenditures identified in Attachment A for ESPA managed recharge operations, and investigations for development of additional ESPA managed recharge capacity may proceed without further approvals; provided the IWRB shall be kept apprised.

BE IT FURTHER RESOLVED that expenditures identified in Attachment A for monitoring, modeling, hydrologic studies, settlement support, federal funding assistance, and administrative costs may proceed without further approval, provided the IWRB is kept apprised.

74 BE IT FURTHER RESOLVED that expenditures identified in Attachment A for the Cooperative Cloud  
75 Seeding Program Operations and Maintenance costs may proceed with no further approvals, with the  
76 expectation of shared financial participation among the state, water users, and Idaho Power Company.  
77

78 BE IT FURTHER RESOLVED that the IWRB may modify this budget during Fiscal Year 2027 at a  
79 properly noticed meeting of the IWRB.  
80

81

DATED 21st day of May, 2026

\_\_\_\_\_  
JEFF RAYBOULD, Chairman  
Idaho Water Resource Board

ATTEST \_\_\_\_\_  
DEAN STEVENSON, Secretary

# ATTACHMENT A:

## FY2027 PROPOSED BUDGET FOR THE SECONDARY AQUIFER FUND

Estimated Carry-Over From FY26

General Fund (2027)

HB547 funds - receipt of Cigarette Tax proceeds

Recharge Conveyance Reserve\*\*

Estimated interest

\$	7,638,918
\$	5,000,000
\$	5,000,000
\$	3,500,000
\$	750,000
\$	21,888,918

TOTAL

Category		Sub-Category	FY27
<b>ESPA MANAGED RECHARGE PROGRAM</b>			
ESPA Recharge Operations		Conveyance Cost	3,500,000
		O&M (equipment, supplies, operational fees, etc.)	225,000
		Recharge Monitoring	975,000
		<b>TOTAL</b>	<b>\$4,700,000</b>
ESPA Managed Recharge Infrastructure Projects	Budgeted Infrastructure Projects	Infrastructure projects to improve IWRB recharge capacity	7,500,000 *
		Projects in development with the following partners:	
		New Sweden Irrigation District	
		Farmers Friend Irrigation Company	
		Bingham Groundwater District	
		Idaho Irrigation District	
<b>TOTAL</b>	<b>\$7,500,000</b>		
ESPA Recharge Investigations	Budgeted Investigations	Canal improvement and recharge site feasibility investigations	350,000
		<b>TOTAL</b>	<b>\$350,000</b>
<b>ESPA MANAGED RECHARGE TOTAL</b>			<b>\$12,550,000</b>
<b>CLOUD SEEDING PROGRAM</b>			
Collaborative Program Operations & Maintenance	Upper Snake River Basin	2026-2027 Project Operations (=2/3 * \$2,031,900)	1,354,600
	Wood River Basin	2026-2027 Project Operations (=2/3 * \$831,750)	554,500
	Boise River Basin	2026-2027 Project Operations (=2/3 * \$1,122,750)	748,500
	Collaborative Program Administration	Estimated Water User Contributions (11.13%)	-443,820
	Administration	Operational Modeling and Computing Support (\$290k total 50/50)	145,000
Statewide Operations & Maintenance	Bear River Basin	2026-2027 Pilot Project Operations	1,000,000 *
	New Basins	Infrastructure and Administration	500,000 *
	HCRCD Program	2026-2027 Upper Snake Project Operations	120,000 *
	Administration	Partnership Collaborations, Staff Travel, WMA/NAWMC Memberships	20,000
<b>TOTAL</b>			<b>\$3,998,780</b>
Collaborative Program Capital	Weather Instrumentation	Replacements/Enhancements/Upgrades	0
	Modeling	Model Improvements	225,000
	Technology	Computing and Modeling Infrastructure (HPC)	500,000 *
Statewide Capital	Equipment	Remote Ground Generators	60,000
<b>TOTAL</b>			<b>\$785,000</b>
Reserve			<b>\$250,000</b>
<b>CLOUD SEEDING PROGRAM TOTAL</b>			<b>\$5,033,780</b>
<b>TREASURE VALLEY</b>			
		Monitoring in support of the Treasure Valley model (annual)	170,000
		Treasure Valley Recharge Pilot Project	250,000
		Treasure Valley Groundwater Level Synoptic (Year 1 of 2)	150,000
		Star Watershed Project (Year 2 of 2)	50,000
<b>TOTAL</b>			<b>\$620,000</b>
<b>RAFT RIVER BASIN</b>			
		Raft River Hydrologic Studies and Monitoring	50,000
<b>RAFT RIVER TOTAL</b>			<b>\$50,000</b>
<b>PORTNEUF BASIN</b>			
		Portneuf Hydrogeologic Study (Year 4 of 4)	150,000
<b>TOTAL</b>			<b>\$150,000</b>
<b>BEAR RIVER BASIN</b>			
		Water Sustainability	200,000 *
<b>TOTAL</b>			<b>\$200,000</b>
<b>LEMHI BASIN</b>			
		Support of Water Sustainability Initiatives per settlement	250,000 *
<b>TOTAL</b>			<b>\$250,000</b>
<b>MID-SNAKE BASIN</b>			
		Mid-Snake Water Quality Monitoring (annual)	50,000
<b>TOTAL</b>			<b>\$50,000</b>
<b>PALOUSE BASIN</b>			
		Aquifer monitoring	100,000
<b>TOTAL</b>			<b>\$100,000</b>
<b>MOUNTAIN HOME BASIN</b>			
		Groundwater Model Development (Year 3 of 4)	250,000
<b>TOTAL</b>			<b>\$250,000</b>
<b>BIG LOST BASIN</b>			
		Monitoring in support of Big Lost model development (annual)	130,000

<b>TOTAL</b>	<b>\$130,000</b>
<b>WOOD RIVER BASIN</b>	
Conservation, infrastructure fund associated with settlement (year 2 of 3)	200,000
<b>TOTAL</b>	<b>\$200,000</b>
<b>HYDROLOGY ACTIVITIES</b>	
ESPA monitoring	300,000
Statewide surface water and aquifer monitoring	650,000
Monitor Well Drilling Program (WeSPAM, ESPAM, Northern)	750,000
<b>TOTAL</b>	<b>\$1,700,000</b>
<b>STATEWIDE</b>	
Professional Services (includes media & federal outreach services) and administrative costs	250,000
<b>TOTAL</b>	<b>\$250,000</b>
<b>GRAND TOTAL</b>	<b>\$21,533,780</b>
<b>Reserve for Work in Other Priority Aquifers Total</b>	<b>\$ 355,138</b>

\*These items will require the IWRB pass an additional resolution to authorize funding.

\*\*\$12,378,211 Total Recharge Conveyance Reserve

# MEMO



**To:** Idaho Water Resource Board Finance Committee  
**From:** Cynthia Bridge Clark, Planning & Projects Bureau Chief  
**Date:** May 5, 2026  
**Subject:** Fiscal Year (FY) 2027 Water Management Account Spending Plan

---

**REQUESTED ACTION:** Develop and Recommend a Spending Plan for FY 2027 Appropriations to Water Management Account for Full IWRB Consideration.

---

**BACKGROUND:**

The Idaho Water Resource Board (IWRB/Board) manages three primary funding accounts to support water development and water sustainability efforts: the Revolving Development Account (RDA), Water Management Account (WMA), and the Secondary Aquifer Planning, Management, and Implementation Fund (Secondary Fund).

The RDA primarily funds loans and specific water development projects. The Secondary Fund and WMA are managed through annual or periodic spending plans adopted by the IWRB to direct funding toward priority water sustainability projects, grants, loans, and other Board-approved initiatives.

Since 2019, including FY 2027 appropriations, the Idaho Legislature has appropriated approximately \$394 million to the IWRB’s Water Management Account (WMA) to support water project development and water sustainability initiatives. In addition, the 2022 Idaho Legislature allocated approximately \$250 million of the State’s American Rescue Plan Act (ARPA) funding to support IWRB-approved projects.

To guide investments in projects that support water supply sustainability on a regional, basin-wide, or statewide scale in accordance with legislative direction, the IWRB maintains a list of priority projects: Regional Water Sustainability Projects Priority List (RWSP Priority List). The Board also administers targeted grant programs addressing aging infrastructure, flood management, groundwater-to-surface water conversions, measurement and monitoring, and water delivery system efficiency.

**FY 2027 LEGISLATIVE APPROPRIATIONS (SENATE BILL 1363):**

Through Senate Bill (SB) 1363 (FY 2027 Natural Resources Maintenance Appropriation), the Legislature provided funding and direction for the WMA:

Section 16 – Flood Management Program (\$1,000,000):

- Transfers \$1 million from the Idaho Department of Water Resources (IDWR) General Fund to the Water Management Fund for flood-related activities, including hydrologic data collection, monitoring and modeling, stream channel repair and improvement, flood risk reduction, and flood prevention projects.
- These funds are to be administered by the IWRB through a competitive, matching grant

process prioritizing projects based on public benefit.

Section 17 – Water Projects (\$30,000,000): Transfers \$30 million from the IDWR General Fund to the WMA for water projects on or around July 1, 2026.

Section 18 – WMA Project Fund Criteria: Establishes legislative intent and constraints governing the use of the \$30 million appropriation.

- Funds must be used for planning, construction, rehabilitation, reconstruction, and improvement of water infrastructure statewide.
- Priority categories include: Aquifer recharge and groundwater management; Water storage and conveyance infrastructure (e.g., reservoirs, canals, pipelines); Water supply efficiency and conservation improvements; and Emergency infrastructure repairs to ensure system resilience.
- Geographic distribution of expenditures: No more than 50% of the funds may be used within a single IWRB district unless there are no competing applications.
- Requires reporting to the Joint Finance-Appropriations Committee and germane legislative committees by December 5, 2026.

**FINANCE COMMITTEE MEETING:**

The IWRB’s FY 2026 WMA spending plan incorporated the \$30 million ongoing appropriation authorized under House Bill 445, enacted during the 2025 legislative session. It was last amended on March 27, 2026 (Resolution no. 10-2026 attached) to reflect new IWRB funding obligations.

On May 8, 2026, the Finance Committee will:

- Review the FY 2027 appropriations under SB 1363;
- Evaluate current WMA balances, obligations, and project commitments;
- Develop a recommended FY 2027 WMA spending plan; and
- Consider any necessary amendments to the existing spending plan.

Staff will present the Finance Committee’s recommendations to the full IWRB on May 21, 2026.

**Attachment(s):**

- *IWRB Resolution no. 10-2026: Amended WMA FY2026 Spending Plan*

**BEFORE THE IDAHO WATER RESOURCE BOARD**

IN THE MATTER OF THE IDAHO WATER  
RESOURCE BOARD'S WATER MANAGEMENT  
ACCOUNT

RESOLUTION TO APPROVE AMENDED FISCAL  
YEAR 2026 WATER MANAGEMENT ACCOUNT  
SPENDING PLAN

1           WHEREAS, the Water Management Account (WMA) was created pursuant to Idaho Code § 42-  
2 1760 and is administered by the Idaho Water Resource Board (IWRB); and  
3

4           WHEREAS, through House Bill (HB) 285, the 2019 Idaho Legislature appropriated \$20 Million to  
5 the WMA to be used for the Anderson Ranch Reservoir Enlargement (Anderson Ranch Dam Raise) or the  
6 Mountain Home Air Force Base Sustainable Water Project (MHAFB Project); and  
7

8           WHEREAS, HB 285 also made amendments to Idaho Code § 42-1760, which state, in part, that the  
9 Anderson Ranch Dam Raise, MHAFB Project, additional aquifer recharge infrastructure, and other projects  
10 selected by the IWRB may be undertaken with funds in the Water Management Account; and  
11

12           WHEREAS, through Senate Bill (SB) 1121, the Idaho Legislature appropriated \$50 Million to the  
13 Water Management Account, and the IWRB, through Resolution No. 07-2021, allocated funds  
14 appropriated under HB 285 and SB 1121 to the Anderson Ranch Dam Raise, MAHFB Project, Eastern Snake  
15 Plain Aquifer (ESPA) recharge infrastructure, and the Bear Lake Additional Water Storage project; and  
16

17           WHEREAS, the 2022 Idaho Legislature, through House Bill 769, appropriated \$75 Million to the  
18 WMA to be used for large water projects and directed the IWRB to use the funding for expenditures,  
19 loans, or grants for water projects, including studies, to address water sustainability, rehabilitate or  
20 improve aging water infrastructure, or support flood management; and  
21

22           WHEREAS, HB 769 further directed that no more than one-third of the moneys be used for grants  
23 and the IWRB shall use criteria that takes into account the public's input for the expenditures of money  
24 for grants, that is competitive, and prioritizes projects based on the public benefits they provide; and  
25

26           WHEREAS, HB 361, passed and approved by the 2023 Idaho Legislature, appropriated \$150M to  
27 the WMA for large water projects and specified that the funding be used for purposes similar to those  
28 specified in HB 769, including the requirement that no more than one-third of the money be used for  
29 grants. In accordance with HB 769 and 361 referenced above, the IWRB established the Aging  
30 Infrastructure Grant Program; and  
31

32           WHEREAS, the 2024 Idaho Legislature, through SB 1411, appropriated \$30 Million to the WMA to  
33 be used for large water projects at the direction of the IWRB; and  
34

35           WHEREAS, the 2025 Idaho Legislature, through House Bill 445, appropriated \$30 Million ongoing  
36 to the WMA to be used for planning, construction, rehabilitation, reconstruction, and improvement of  
37 water infrastructure throughout the state; and  
38

39           WHEREAS, HB 445 further directed that of the \$30 Million appropriated in a single year, no more

40 than fifty percent (50%) may be used within a single IWRB district, as defined in Idaho Code § 42-1732  
41 unless there are not competing funding applications for water infrastructure projects in other districts for  
42 the current fiscal year; and  
43

44 WHEREAS, for fiscal year 2026 (FY 2026), fifty percent (50%) of the appropriation from HB 445  
45 shall be allocated for use in IWRB District 3 and fifty percent (50%) in District 4 for the purpose of  
46 supporting the 2024 *Stipulated Mitigation Plan* entered into by surface and ground water users on the  
47 Eastern Snake Plain; and  
48

49 WHEREAS, since July 2021, the IWRB has maintained a list of priority Regional Water Sustainability  
50 Projects (RWSP Priority List). The RWSP Priority List is intended to help guide the IWRB's spending from  
51 state general funds, American Rescue Plan Act (ARPA) funds, or other applicable sources for projects that  
52 support water supply sustainability on a regional, basin, or statewide scale. The IWRB also adopts criteria  
53 for inclusion of projects on the RWSP Priority List and has approved funding for projects on a case-by-case  
54 basis; and  
55

56 WHEREAS, on May 23, 2025, through Resolution 16-2025, the IWRB added the ESPA Regional  
57 Water Sustainability Program to the RWSP Priority list to support projects and programs that contribute  
58 to aquifer stabilization; and  
59

60 WHEREAS, on May 23, 2025, through Resolution 19-2025, the IWRB approved a spending plan for  
61 appropriations made to the WMA under the legislation referenced above, including estimated interest.  
62 The WMA Spending Plan considers projects on the RWSP Priority List, grant programs, certain IWRB  
63 approved loans, and allocates the FY 2026 \$30 million appropriation for programs and projects under the  
64 ESPA Regional Water Sustainability Project that meet the spending requirements defined in HB 445 for  
65 fiscal year 2026; and  
66

67 WHEREAS, a number of projects on the RWSP Priority List were determined eligible for funding  
68 from ARPA State Fiscal Recovery Fund. Given that ARPA funding has specific federal and state spending  
69 requirements, the spending plan includes allocation of additional funds from the WMA to be used if  
70 additional funding is required for project completion or if it is determined that ARPA funds are not  
71 authorized for specific project tasks; and  
72

73 WHEREAS, on September 12, 2025, the IWRB passed Resolution 34-2025, amending the WMA  
74 Spending Plan to apply a 3% reduction to FY 2026 General Fund Appropriations as directed under  
75 Governor Little's Executive Order No. 2025-05; however, it was subsequently determined that general  
76 funds appropriated to the WMA, including the FY 2026 \$30 million appropriation and \$1 million  
77 appropriation for Flood Management Grants, are not subject to the reduction; and  
78

79 WHEREAS, on November 21, 2025, the IWRB passed Resolution 51-2025, authorizing a second  
80 amended spending plan for FY 2026 that reinstated the 3% reduction applied through IWRB Resolution  
81 34-2025 and obligated funding for specified projects; and  
82

83 WHEREAS, on March 26, 2026, the IWRB's Aquifer Stabilization Committee recommended the  
84 IWRB add the Mountain Home Plateau Aquifer Regional Water Sustainability Program to the RWSP  
85 Priority list to support projects and programs that contribute to aquifer stabilization and long-term water  
86 supply resiliency; and  
87

88 WHEREAS, on March 26, 2026, the Finance Committee recommended amendments to the  
89 spending plan for FY 2026 to the full IWRB that obligates funding for the following projects as reflected in  
90 Attachment A:  
91

- 92 • Anderson Ranch Dam Raise – Obligation of funds to supplement ARPA funding for the non-federal  
93 cost-share if needed.
- 94 • Conservation Reserve Enhancement Program (CREP) – Obligation of funds for use by the Idaho  
95 Soil and Water Conservation Commission for program administration.
- 96 • Dworshak/Clearwater Pipeline & Other Statewide Special Projects – Obligation of funds for  
97 implementation of Governor Little’s Salmon Recovery Plan projects and other statewide special  
98 projects.
- 99 • Mountain Home Air Force Base Water Resilience Project (MHAFB Project) & Other Regional  
100 Projects – Obligation of funds to supplement ARPA funding for remaining MHAFB Project  
101 expenses or to support future Mountain Home Plateau Aquifer/Elmore County sustainability  
102 projects.
- 103 • Mountain Home Plateau Aquifer Regional Water Sustainability Program – Obligation of funds to  
104 support projects and programs that contribute to aquifer stabilization.
- 105 • Palouse Basin Aquifer Water Supply Planning – Obligation of funds for engineering design and  
106 development of a proposed regional water supply project in the Palouse Basin.
- 107 • Raft River Pipeline – Obligation of funds for construction of a pipeline from the Snake River to  
108 offset groundwater pumping in the Raft River Basin.
- 109 • Statewide Recharge Infrastructure – Obligation of funds to support planning and implementation  
110 of recharge infrastructure in various basins statewide such as the Treasure Valley, Mountain  
111 Home Plateau Aquifer, and Lemhi River basin.
- 112 • Thousand Springs Area Water Subordination Agreements – Obligation of funds to help resolve  
113 water supply issues in the Thousand Springs area.
- 114 • Upper Snake River Basin Study – Obligation of funds for the non-federal cost-share portion of the  
115 U.S. Bureau of Reclamation Water Smart *Upper Snake River Basin Study*.
- 116 • Upper Payette Basin Storage Water Project – Obligation of funds for actions necessary to secure  
117 uncontracted water storage space in the U.S. Bureau of Reclamation’s Cascade and Deadwood  
118 Reservoirs.
- 119 • ESPA Improvement Projects and Near Blackfoot to Minidoka Reach Gain Improvements Projects  
120 – Obligation of funds in accordance with Governor Little’s direction to commit \$10 million towards  
121 projects to improve the long-term health of the ESPA, authorized under IWRB Resolution no. 40-  
122 2024.
- 123 • ESPA Groundwater Measurement Database – Obligation of funds to develop and maintain a new  
124 database to manage monthly groundwater pumping measurements as required under the 2024  
125 *Stipulated Mitigation Plan* entered into by surface and ground water users on the Eastern Snake  
126 Plain.
- 127 • Idaho Department of Water Resources (IDWR) Underground Injection Control (UIC) Program  
128 Support – Obligation of funds to obtain technical outside review of injection well applications for  
129 aquifer storage and recharge on the ESPA, authorizing funding up to \$100,000 per year for five  
130 years.
- 131 • ESPA Groundwater to Surface Water Conversion Projects Grant (FY 2026 Round 2) – Obligation of  
132 funds for a second grant application period in FY 2026.
- 133 • Statewide Aging Infrastructure Grants – Obligation of funds for a seventh grant application period.
- 134 • Statewide Flood Management Grants - Obligation of funds for a second grant application period  
135 in FY 2026.

136 NOW, THEREFORE BE IT RESOLVED that the IWRB adopts the *Amended FY 2026 WMA Spending*  
137 *Plan* (Spending Plan) attached to this resolution (Attachment A), as recommended by the IWRB Finance  
138 Committee.

139  
140 NOW, THEREFORE BE IT FURTHER RESOLVED that the projects marked with an asterisk in the  
141 attached Spending Plan are hereby obligated for the referenced purposes but require additional IWRB  
142 approval of the project plan.

143  
144 NOW, THEREFORE BE IT FURTHER RESOLVED that the IWRB authorizes its chairman or Executive  
145 Manager, Brian Patton, to execute the necessary agreements or contracts for the purpose of this  
146 resolution.

147  
148 NOW, THEREFORE BE IT FURTHER RESOLVED that for projects identified in the attached Spending  
149 Plan and approved by the IWRB for funding from the ARPA State Fiscal Recovery Fund, the IWRB  
150 authorizes the expenditure of WMA funds to cover project activities determined to be ineligible or in  
151 excess of available ARPA funding.

152  
153 NOW, THEREFORE BE IT FURTHER RESOLVED that the attached Spending Plan shall be  
154 automatically amended to reflect WMA expenditures approved through future IWRB resolutions.

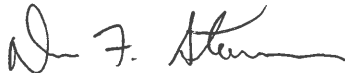
155

DATED this 27th day of March 2026.



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JEFF RAYBOULD, Chairman  
Idaho Water Resource Board



ATTEST \_\_\_\_\_  
DEAN STEVENSON, Secretary

**ATTACHMENT A**  
**Idaho Water Resource Board - Water Management Account**  
**Amended FY 2026 Spending Plan**  
**Amended by IWRB Resolution(s) March 27, 2026**

**Appropriations for Regional Water Sustainability Projects, Loans, Aging Infrastructure & Other Grants**

FY 2020 (HB 285, Sec 1, Leg 2019)	\$20,000,000
FY 2022 (SB 1121, Sec 1, Leg 2021)	\$50,000,000
FY 2023 (HB 769, Sec 6, Leg 2022 - 1/3 or \$25M to be used for AI Grants)	\$75,000,000
FY 2024 (HB 361, Sec 1, Leg 2023 - 1/3 or \$50M to be used for AI Grants)	\$150,000,000
FY 2025 (SB 1411, Sec 3, Leg 2024)	\$30,000,000
FY 2026 (HB 445, Sec 4, Leg 2025)	\$30,000,000
Flood Management Grant Appropriations (FY 2019 - FY 2026)	\$7,400,000
Water Quality Collection Program Appropriation (FY 2020 - FY 2022)	\$600,000
Interest Earned State Treasury (as of Feb 28, 2026)	\$38,379,481
Water Project Loan Interest (as of Feb 28, 2026)	\$5,276
Water Project Loan Repayments (as of Feb 28, 2026)	\$346,074
Misc Revenue	\$4,350,000
	<b>\$406,080,831</b>

STATEWIDE REGIONAL WATER SUSTAINABILITY PROJECTS & OTHER LARGE PROJECTS (Projects listed in alphabetical order)	Budgeted	Funds Obligated by IWRB Resolution (as of 3/27/2026)	Funds Expended (as of 2/28/2026)
Anderson Ranch Dam Raise **	\$15,000,000	\$15,000,000 *	\$1,232,047
Bear Lake Additional Storage	\$2,000,000	\$1,200,000 *	\$0
City of Gooding - Little Wood River Channel Flood Control Project	\$5,197,000	\$5,197,000	\$3,600,000
City of Nampa Wastewater-to-Irrigation Reuse	\$3,000,000	\$3,000,000	\$321,438
Dworshak/Clearwater Pipeline (Governor's Initiative) & Other Statewide Special Projects	\$60,000,000	\$60,000,000 *	\$0
Lewiston Orchards Exchange Project **	\$1,287,000	\$1,287,000	\$1,287,000
Lost Valley Reservoir Enlargement - Planning	\$560,000	\$560,000	\$234,705
Milner Dam Rehabilitation Project	\$1,500,000	\$1,500,000	\$0
Mountain Home Air Force Base Water Resilience Project **	\$2,000,000	\$2,000,000 *	\$104,000
Mountain Home Plateau Aquifer RWS Program	\$8,000,000	\$8,000,000 *	
Nampa Meridian Irrigation District Ridenbaugh Canal Diversion Modernization Project	\$9,169,047	\$9,169,047	\$0
North Fremont Canal Systems Phase 5 Pipeline Project	\$7,811,056	\$7,811,056	\$7,811,056
Palouse Basin Aquifer Water Supply Planning	\$5,000,000	\$5,000,000 *	\$68,349
Priest Lake Water Management Project	\$5,420,000	\$5,420,000	\$4,854,477
Priest Lake Outlet Dam Litigation	\$2,748,000	\$2,748,000	\$2,426,847
Raft River Pipeline Project	\$7,000,000	\$7,000,000 *	\$0
Statewide Recharge Infrastructure	\$10,019,541	\$10,019,541 *	\$0
Thousand Springs Area Water Subordination Agreements	\$8,000,000	\$8,000,000 *	\$0
Treasure Valley Water Supply Assessment Project (WD 63)	\$474,320	\$474,320	\$155,450
Upper Snake River Basin Study	\$3,000,000	\$3,000,000 *	\$0
Upper Payette Basin Storage Water Project	\$5,000,000	\$5,000,000 *	\$0
<b>Total:</b>	<b>\$162,185,964</b>	<b>\$161,385,964</b>	<b>\$22,095,369</b>

\* Funds are obligated by IWRB resolution but require additional IWRB approval of project plan. \*\* Eligible for ARPA Funding.

**Idaho Water Resource Board - Water Management Account  
Amended FY 2026 Spending Plan  
Amended by IWRB Resolution(s) March 27, 2026**

	<b>Budgeted</b>	<b>Funds Obligated by IWRB Resolution (as of 3/27/2026)</b>	<b>Funds Expended (as of 2/28/2026)</b>
<b>ESPA REGIONAL WATER SUSTAINABILITY PROGRAM</b>			
Eastern Snake Plain Aquifer (ESPA) Improvement Projects	\$5,000,000	\$5,000,000 *	\$0
Near Blackfoot to Minidoka Reach Gain Improvements Projects	\$5,000,000	\$5,000,000 *	\$0
ESPA Recharge Infrastructure **	\$25,980,046	\$25,980,046	\$3,357,074
ESPA Groundwater to Surface Water Conversion Projects Grants	\$38,621,296	\$38,621,296	\$281,354
Surface Water Coalition Operational Efficiencies Program (AFRD2 & TFCC Project )	\$27,332,574	\$27,332,574	\$12,223,719
Measuring & Monitoring Support Grant	\$815,102	\$815,102	\$0
Conservation Reserve Enhancement Program (CREP)	\$100,000	\$100,000	\$0
ESPA Groundwater Measurement Database	\$500,000	\$500,000 *	\$10,725
IDWR Underground Injection Control (UIC) Program Support	\$500,000	\$500,000 *	\$73
<b>ESPA Regional Sustainability Program Total:</b>	<b>\$103,849,018</b>	<b>\$103,849,018</b>	<b>\$15,872,945</b>

\* Funds are obligated by IWRB resolution but require additional IWRB approval of project plan. \*\* Eligible for ARPA Funding.  
 \*\*\* FY 2026 \$30M Earmark: IWRB Districts 3 & 4 each must receive 50% of FY 2026 appropriation (HB 445, FY 2026). More than \$93M has been obligated to ESPA stabilization

	<b>Budgeted</b>	<b>Funds Obligated by IWRB Resolution (as of 3/27/2026)</b>	<b>Funds Expended (as of 02/28/2026)</b>
<b>STATEWIDE AGING INFRASTRUCTURE GRANTS ^</b>			
FY 2023 (Approp. \$25M)	\$10,679,352	\$10,679,352	\$8,527,475
FY 2023 (Supplemental Round)	\$13,889,175	\$13,889,175	\$7,363,587
FY 2024 (Approp. \$50M)	\$9,033,074	\$9,033,074	\$5,605,532
FY 2024 (Supplemental Round)	\$6,843,940	\$6,843,940	\$1,612,102
FY 2025	\$9,823,523	\$9,823,523	\$2,417,879
FY 2026	\$22,919,008	\$22,919,008	\$0
FY 2027 (scheduled)	\$26,240,428	\$21,240,428 *	\$0
<b>Total:</b>	<b>\$99,428,500</b>	<b>\$94,428,500</b>	<b>\$25,526,575</b>

\* Funds are obligated by IWRB resolution and through appropriations in HB 769 and HB 361 but remain subject to IWRB approval of the project plan.  
 ^ Additional funding has been committed to the AIG program, supplementing the initial \$75 million appropriated under HB 769 and HB 361.

**Idaho Water Resource Board - Water Management Account**  
**Amended FY 2026 Spending Plan**  
*Amended by IWRB Resolution(s) March 27, 2026*

	Budgeted	Funds Obligated by IWRB Resolution (as of 3/27/2026)	Funds Expended (as of 02/28/2026)
<b>STATEWIDE FLOOD MANAGEMENT GRANTS</b>			
FY 2019 (Approp. \$1M)	\$901,678	\$901,678	\$901,678
FY 2020 (Approp. \$800K)	\$624,251	\$624,251	\$624,251
FY 2021 (Approp. \$800K)	\$688,743	\$688,743	\$688,743
FY 2022 (Approp. \$800K)	\$893,346	\$893,346	\$893,346
FY 2023 (Approp. \$1M)	\$529,274	\$529,274	\$529,274
FY 2024 (Approp. \$1M)	\$831,015	\$831,015	\$625,101
FY 2025 (Approp. \$1M)	\$695,517	\$695,517	\$289,331
FY 2026 (Approp. \$1M)	\$460,646	\$460,646	\$81,472
FY 2026 - Supplemental Round	\$559,358	\$559,358	\$0
Carry Forward for Future Rounds	\$1,216,172	\$1,216,172 *	\$0
<b>Total:</b>	<b>\$7,400,000</b>	<b>\$7,400,000</b>	<b>\$4,633,196</b>

\* Funds are obligated pursuant to the Flood Management Grant appropriation but remain contingent upon IWRB approval of individual grant applications.

	Budgeted	Funds Obligated by IWRB Resolution (as of 3/27/2026)	Funds Expended (as of 02/28/2026)
<b>STATEWIDE LOANS, GRANTS, &amp; OTHER POTENTIAL NEEDS ^</b>			
Lost Valley Reservoir Company Loan (total authorized \$13,246,500)	\$13,246,500	\$13,246,500 *	\$0
Magic Valley Groundwater District Loan	\$10,000,000	\$10,000,000	\$0
North Side Pumping Co Loan	\$1,200,000	\$1,200,000	\$397,737
Raft River Recharge Group Loan	\$14,111,000	\$14,111,000	\$0
<b>Total:</b>	<b>\$38,557,500</b>	<b>\$38,557,500</b>	<b>\$397,737</b>

\* Loan may be funded from the WMA or RDA.

^ Funds obligated for loans will be available for reallocation upon repayment.

	Appropriated Funds	Funds Obligated by IWRB Resolution (Closed Out)	Funds Expended (Complete)
<b>WATER QUALITY COLLECTION PROGRAM</b>			
DOI-USGS Agreement FY 2020 - Mid-Snake River (HB 285, Sec 3, 2019)	\$200,000	\$200,000	\$200,000
DOI-USGS Agreement FY 2021 - Mid-Snake River (HB 646, 2020)	\$200,000	\$200,000	\$200,000
DOI-USGS Agreement FY 2022 - Mid-Snake River (HB 646, Sec 5, 2021)	\$200,000	\$200,000	\$200,000
<b>Total:</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>

<b>Grand Total:</b>	<b>\$412,020,982</b>	<b>\$406,220,982</b>	<b>\$69,125,822</b>
<b>Remainder Available:</b>	<b>(\$5,940,151)</b>	<b>(\$140,151)</b>	

# MEMO



**To:** IWRB Finance Committee (Committee)  
**From:** Planning & Projects Bureau Staff  
**Date:** May 8, 2026  
**Subject:** Other Items

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## INFORMATIONAL ITEM

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This item is included to allow the Committee an opportunity to bring forward and discuss any other matters.

**Attachment(s):**

- *None*