Request for Clean Water Act
Section 401 Water Quality Certification
Washington State Department of Ecology
Phone: (360) 407-6076 or E-mail: ecyrefedpermits@ecy.wa.gov

AGENCY USE ONLY

Date Received: 9/7/2023
Aquatics ID No.: 137236
Team: ERO
Valid Request: 9/7/2023

This Section 401 Water Quality Certification (WQC) Request form identifies information needed in order to review and process a Section 401 WQC Request. Please see Department of Ecology's (Ecology) webpage for more information about the Section 401 WQC Request process.

Submit this Section 401 WQC Request form along with a Joint Aquatic Resources Permit Application (JARPA) and supporting information[1] to ecyrefedpermits@ecy.wa.gov and copy the federal permitting agency.

A. Federal Permit or License Reference Number, if known: _____

Department of Ecology (Ecology) Aquatics ID Number, if known: 137236

Project Name: Mill Creek Diversion Dam Fish Ladder and Low Flow Channel **County**: Walla Walla

B. Project Proponent Name: Benjamin Tice

C. Documentation showing that the Pre-Filing Meeting Request was submitted at least 30 days prior to submitting this Section 401 WQC Request. Attach either of the following:

- ■ E-mail acknowledgement of receipt from Ecology
- ☐ Copy of previously submitted Pre-Filing Meeting Request Form

D. A completed, signed, and dated JARPA should be submitted with this form.

Did you attach a JARPA? ■ Yes ☐ No

E. The following is a list of documents needed for Ecology's WQC review, along with a brief explanation. Depending on the project, additional information may be requested.

Please let us know what information you are submitting with this WQC request form.

Required for all projects:

1. State Environmental Policy Act (SEPA) determination and/or checklist:
   - ☐ Final SEPA determination attached
   - ☐ SEPA determination pending
   - ☐ Exempt from SEPA (see SEPA Guidance)
   - ■ SEPA is not required (e.g., federal agency projects)

[1] To submit documents over 25MB, e-mail ecyrefedpermits@ecy.wa.gov to request a secure link.

To request an ADA accommodation, contact Ecology by phone at (360) 407-6076 or email at ecyrefedpermits@ecy.wa.gov, or visit https://ecology.wa.gov/accessibility.
For Relay Service or TTY call 711 or 877-833-6341.

Si necesita este formulario en español, por favor, llámenos a (360) 407-6076
o envíenos un correo electrónico a: ecyrefedpermits@ecy.wa.gov

2. Project drawings attached:
   - ☒ Vicinity map
   - ☒ Plan view
   - ☒ Cross-section(s)
   - ☐ Plan set
   - ☒ Other: Construction examples

3. Best management practices and construction methodology, provided in the attached:
   - ☒ JARPA
   - ☐ Water Quality Monitoring and Protection Plan (WQMPP)
   - ☐ Project drawings, sheets:_____
   - ☐ Mitigation Plan pages:_____
   - ☒ Other document(s): List of BMPs

   Notes:
   - This is needed for in-water work (below ordinary high water mark), including wetlands.
   - Describe best management practices to be implemented to protect water quality.
   - Describe construction sequencing and methodology.

4. Water quality monitoring, provided in the attached:
   - ☒ Water Quality Monitoring Plan (WQMP).
   - ☐ Water Quality Monitoring and Protection Plan (WQMPP is similar to WQMP, but includes best management practices).
   - ☐ Other (please identify location, such as JARPA, Part 8):_____

   Notes:
   - Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
   - A plan is needed when conducting work in a waterbody (e.g., creek, ditch, river, lake, pond, marine, estuarine).
   - Include water quality parameters such as turbidity, oil sheen, pH (e.g., poured in-place concrete, concrete demolition), etc.
   - See State Water Quality Standards for Surface Waters (Chapter 173-201A-200 or -210 WAC)
   - If needed, templates are available.

Required depending on the project type:

5. Erosion and sediment control for upland work (above ordinary high water mark) that addresses stormwater during construction and long-term:

   This information is included in the attached:
   - ☐ JARPA
   - ☐ Project drawings, sheets:_____
   - ☐ Stormwater Pollution Prevention Plan, pages:_____
   - ☐ Mitigation Plan, pages:_____
   - ☐ Other document(s): _____

6. Wetland report, including the attached:
   - ☐ Wetland delineation report
   - ☐ Delineation data sheets
   - ☐ Wetland rating forms

Notes:

- Needed when there is a discharge (dewatering, excavation or fill) to wetlands.
- Report needs to include both a wetland delineation and rating.
- Include delineation data sheets and rating forms.
- For more information see wetland delineation resources and hiring a qualified wetland professional.
- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.

7. Mitigation, avoidance and minimization
   - ☐ Wetland avoidance and minimization checklist
   - ☐ Other aquatic resource avoidance and minimization demonstration
   - ☐ Mitigation Plan
   - ☐ Other:_____

   Notes:
   - Wetland avoidance and minimization webpage.

8. Mitigation plan, provided in the attached:
   - ☐ Riparian Planting and Monitoring Plan (Needed when riparian vegetation is removed or modified)
   - ☐ Wetland or stream/other aquatic resource Mitigation Plan
   - ☐ Wetland Mitigation Bank Use Plan (use when proposing mitigation bank use)
   - ☐ In-Lieu Fee (ILF) Use Plan (use when proposing ILF mitigation)
   - ☐ Project drawings, sheets:_____
   - ☐ Other:_____

   Notes:
   - Needed to offset impacts to wetland, stream, marine, or other aquatic habitat.
   - Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
   - For more information, see wetland compensatory mitigation.

9. Dredging
   - ☐ Dredging Plan attached
   - ☐ Suitability Determination attached

   Notes:
   - Needed when sediments will be dredged for maintenance, navigation, or other purposes.
   - Covers in-water disposal and sediment anti-degradation.
   - Dredging Plan should include dredge footprint and depth, dredge type, best management. practices, disposal plan, off-loading plan for upland disposal, etc.
   - Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
   - For informationon suitability determinations, see Dredged Material Management Office.

10. Dewatering
    - ■ Dewatering Plan attached

    Notes:
    - Needed for complex in-water work or management of excavated/dredged material.

- Include language in the plans that allows Ecology to review and approve all substantive changes to a plan prior to implementation.
- May also be required for some excavation projects.

F. Required Certification Statements:

The project proponent hereby certifies that all information contained herein is true, accurate, and complete, to the best of my knowledge and belief.

Initial BJT

The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Initial BJT

Signature: TICE.BENJAMIN.J.1229098566 Digitally signed by TICE.BENJAMIN.J.1229098566 Date: 2023.09.06 07:21:59 -07'00' Date: 9-6-2023

Print Name: Benjamin J Tice

WASHINGTON STATE
Joint Aquatic Resources Permit Application (JARPA) Form[1,2] [help]

US Army Corps of Engineers ®
Seattle District

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.

AGENCY USE ONLY

Date received: 9/7/2023 edoc
Rec'd Section 401 Req Form

Agency reference #: _____

Tax Parcel #(s): _____

_____

Part 1–Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]
Mill Creek Fish Ladder and Low Flow Channel

Part 2–Applicant

The person and/or organization responsible for the project. [help]

2a. Name (Last, First, Middle)			
Tice, Benjamin J			
2b. Organization (If applicable)			
U.S. Army Corps of Engineers			
2c. Mailing Address (Street or PO Box)			
201 North 3rd Ave			
2d. City, State, Zip			
Walla Walla, WA 99362			
2e. Phone (1)	**2f.** Phone (2)	**2g.** Fax	**2h.** E-mail
509-527-7267			ben.j.tice@usace.army.mil

[1]Additional forms may be required for the following permits:
- If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.
- Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

[2]To access an online JARPA form with [help] screens, go to http://www.epermitting.wa.gov/site/alias__resourcecenter/jarpa_jarpa_form/9984/jarpa_form.aspx.

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.

Part 3–Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [help]

3a. Name (Last, First, Middle)			
Colter, Anneli K			
3b. Organization (If applicable)			
U.S. Army Corps of Engineers			
3c. Mailing Address (Street or PO Box)			
201 North 3rd Ave			
3d. City, State, Zip			
Walla Walla, WA 99362			
3e. Phone (1)	**3f.** Phone (2)	**3g.** Fax	**3h.** E-mail
509-527-7245			anneli.k.colter@usace.army.mil

Part 4–Property Owner(s)

Contact information for people or organizations owning the property(ies) where the project will occur. Consider both **upland and aquatic** ownership because the upland owners may not own the adjacent aquatic land. [help]

☒ Same as applicant. (Skip to Part 5.)

☐ Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)

☐ There are multiple upland property owners. Complete the section below and fill out JARPA Attachment A for each additional property owner.

☐ Your project is on Department of Natural Resources (DNR)-managed aquatic lands. If you don't know, contact the DNR at (360) 902-1100 to determine aquatic land ownership. If yes, complete JARPA Attachment E to apply for the Aquatic Use Authorization.

4a. Name (Last, First, Middle)			
4b. Organization (If applicable)			
4c. Mailing Address (Street or PO Box)			
4d. City, State, Zip			
4e. Phone (1)	**4f.** Phone (2)	**4g.** Fax	**4h.** E-mail

Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [help]

☐ There are multiple project locations (e.g. linear projects). Complete the section below and use JARPA Attachment B for each additional project location.

5a. Indicate the type of ownership of the property. (Check all that apply.) [help]

☐ Private
☒ Federal
☐ Publicly owned (state, county, city, special districts like schools, ports, etc.)
☐ Tribal
☐ Department of Natural Resources (DNR) – managed aquatic lands (Complete JARPA Attachment E)

5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [help]

3211 Reservoir Road

5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]

Walla Walla, WA 99362

5d. County [help]

Walla Walla

5e. Provide the section, township, and range for the project location. [help]

¼ Section	Section	Township	Range
	23, 37	7 N	36 E

5f. Provide the latitude and longitude of the project location. [help]

- Example: 47.03922 N lat. / -122.89142 W long. (Use decimal degrees - NAD 83)

46.079035 N. lat -118.226220 W. long

5g. List the tax parcel number(s) for the project location. [help]

- The local county assessor's office can provide this information.

360724210006, 360724210010

5h. Contact information for all adjoining property owners. (If you need more space, use JARPA Attachment C.) [help]

Name	Mailing Address	Tax Parcel # (if known)
See Attachment C		

5i. List all wetlands on or adjacent to the project location. [help]

Rooks Park Pond. Small, in-channel wetlands

5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]

Mill Creek, Yellowhawk Creek, Jones Ditch, Rooks Park Pond

5k. Is any part of the project area within a 100-year floodplain? [help]

☒ Yes ☐ No ☐ Don't know

5l. Briefly describe the vegetation and habitat conditions on the property. [help]

There are sparse grasses and shrubs bordering the creek. There is a small amount of willows growing in the channel at the upstream edge of the project. There are small pockets of cattails and rushes growing in and along the channel.

5m. Describe how the property is currently used. [help]

The property is a flood risk reduction project that has been highly altered from natural conditions. The area is also used for public recreation.

5n. Describe how the adjacent properties are currently used. [help]

Private residences, farming, and a community college.

5o. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]

The Mill Creek Diversion Dam (and an existing fish ladder) is located at the upstream end of the project area. This dam is for flood risk reduction purposes. There are 84 grade control weirs that span the channel from the diversion dam to the downstream end of the property. There is a wooden pedestrian bridge just downstream from the dam. There is a vault toilet on the left (south) bank near the middle of the work area. There are three concrete low-flow weirs which were constructed in 2012. The Mill Creek Division Dam is near the downstream end of the project area. This is for flood damage reduction and irrigation purposes. There is a stream gage and a concrete ford near the downstream end of the work area.

5p. Provide driving directions from the closest highway to the project location, and attach a map. [help]

From U.S. 12, take the airport exit and head south. In 0.6 miles, turn left (east) on Reservoir Road. In 0.5 miles, turn left at the U.S. Army Corps of Engineers Mill Creek Project. The downstream end of the project starts near the parking lot. The upstream end of the project is about one mile upstream at the Mill Creek Diversion Dam adjacent to Rooks Park.

Part 6–Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [help]

The project is to improve fish passage and water quality by constructing a new fish ladder and installing low-flow weirs that meet current fish passage criteria. These actions are requirements of Endangered Species Act consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service. The projects will take at least two years to construct. Fish passage will be improved and fish will be able to pass through the reach at a wider range of flows. Water quality may also be improved.

6b. Describe the purpose of the project and why you want or need to perform it. [help]

See 6a.

6c. Indicate the project category. (Check all that apply) [help]

☐ Commercial ☐ Residential ☐ Institutional ☐ Transportation ☒ Recreational

☐ Maintenance ☒ Environmental Enhancement

6d. Indicate the major elements of your project. (Check all that apply) [help]

☐ Aquaculture	☐ Culvert	☐ Float	☐ Retaining Wall (upland)
☐ Bank Stabilization	☒ Dam / Weir	☐ Floating Home	☒ Road
☐ Boat House	☐ Dike / Levee / Jetty	☐ Geotechnical Survey	☐ Scientific Measurement Device
☐ Boat Launch	☐ Ditch	☐ Land Clearing	☐ Stairs
☐ Boat Lift	☐ Dock / Pier	☐ Marina / Moorage	☐ Stormwater facility
☐ Bridge	☐ Dredging	☐ Mining	☐ Swimming Pool
☐ Bulkhead	☐ Fence	☐ Outfall Structure	☐ Utility Line
☐ Buoy	☐ Ferry Terminal	☐ Piling/Dolphin	
☒ Channel Modification	☐ Fishway	☐ Raft	

☒ Other:

Construction of a new fish ladder that meets current fish passage criteria. Construction of a low-flow channel that improves fish passage and water quality.

6e. Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [help]

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year floodplain.

Each of these structures will be constructed in and near Mill Creek and are mostly within the 100-year floodplain.

The new fish ladder will be constructed on the right bank adjacent to the Mill Creek Diversion Dam. The site will be dewatered by constructing a cofferdam at the upstream side of the dam. The area will be excavated with heavy equipment (excavator and dump trucks). Forms will be set and concrete placed to form the steps in the ladder and bypass channel. An access ramp to the stilling basin will be constructed. Dump trucks would haul fill material to the site and the material would be placed and spread with an excavator or bull dozer.

The low-flow channel will be constructed from the upstream end and progress downstream. A dewatering system will be installed. The existing concrete-capped gabion weirs will be sawcut to remove a section of the weirs. The area will be excavated with heavy equipment (excavator, loader, etc.). Forms will be placed and concrete placed to create the new low-flow weirs.

6f. What are the anticipated start and end dates for project construction? (Month/Year) [help]

- If the project will be constructed in phases or stages, use JARPA Attachment D to list the start and end dates of each phase or stage.

Start Date: June 15, 2024 End Date: December 31, 2025 ☒ See JARPA Attachment D

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]

$20,000,000

6h. Will any portion of the project receive federal funding? [help]

- **If yes**, list each agency providing funds.

☒ Yes ☐ No ☐ Don't know Corps of Engineers

Part 7–Wetlands: Impacts and Mitigation

☒ Check here if there are wetlands or wetland buffers on or adjacent to the project area. (If there are none, skip to Part 8.) [help]

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]

☒ Not applicable

The project is within a flood risk reduction project. Any wetlands within the channel are incidental and could be removed any year during high flows. They would also be removed if it was determined that they decreased the channel capacity of the flood risk reduction project.

7b. Will the project impact wetlands? [help]

☒ Yes ☐ No ☐ Don't know

7c. Will the project impact wetland buffers? [help]

☐ Yes ☒ No ☐ Don't know

7d. Has a wetland delineation report been prepared? [help]

- **If Yes**, submit the report, including data sheets, with the JARPA package.

☐ Yes ☒ No

7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [help]

- **If Yes**, submit the wetland rating forms and figures with the JARPA package.

☐ Yes ☒ No ☐ Don't know

7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [help]

- **If Yes**, submit the plan with the JARPA package and answer 7g.
- **If No, or Not applicable**, explain below why a mitigation plan should not be required.

☐ Yes ☒ No ☐ Don't know

This project is a mitigation project required under Endangered Species Act consultation. There would be minimal impacts to wetlands from the project. Wetlands may be created or improved by this project.

7g. Summarize what the mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [help]

7h. Use the table below to list the type and rating of each wetland impacted, the extent and duration of the impact, and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [help]

Activity (fill, drain, excavate, flood, etc.)	Wetland Name[1]	Wetland type and rating category[2]	Impact area (sq. ft. or Acres)	Duration of impact[3]	Proposed mitigation type[4]	Wetland mitigation area (sq. ft. or acres)

[1] If no official name for the wetland exists, create a unique name (such as "Wetland 1"). The name should be consistent with other project documents, such as a wetland delineation report.
[2] Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.
[3] Indicate the days, months or years the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.
[4] Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: _____

7i. For all filling activities identified in 7h, describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [help]
7j. For all excavating activities identified in 7h, describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [help]

Part 8–Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

☒ Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)

8a. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [help]
☐ Not applicable
In-water work would be performed in the (extended) summer in-water work window. The work areas would be dewatered. Fish salvage would be conducted. Concrete would be finished with smooth surfaces. Water quality monitoring would occur. The new structures would improve fish passage and water quality once complete.
8b. Will your project impact a waterbody or the area around a waterbody? [help]
☒ Yes ☐ No

8c. Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [help]

- **If Yes**, submit the plan with the JARPA package and answer 8d.
- **If No, or Not applicable,** explain below why a mitigation plan should not be required.

☐ Yes ☒ No ☐ Don't know

The project is a mitigation project required under Endangered Species Act consultation.

8d. Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7g you do not need to restate your answer here. [help]

8e. Summarize impact(s) to each waterbody in the table below. [help]

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name[1]	Impact location[2]	Duration of impact[3]	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
Ladder Excavation	Mill Creek	In and adjacent	2.5 Years	Excavate 17,300 cubic yards	450 feet
Ladder Construction	Mill Creek	In and adjacent	2.5 Years	Place 2,586 cubic yards of concrete and 1,470 cy of fill	450 feet
L-F Excavation	Mill Creek	In	2 Years	Remove 12,000 cubic yards	5,000 feet
L-F Construction	Mill Creek	In	2 Years	Place 1,350 cubic yards of concrete	5,000 feet

[1] If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided.
[2] Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.
[3] Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

8f. For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]

Fish ladder - After site excavation, 1,020 cubic yards of controlled density fill will be used to line the work area as a subbase for the ladder and 2,586 cubic yards of concrete will be placed to create the fish ladder floors, walls, and associated structures. Concrete will be pumped into forms. Approximately 450 cubic yards of material would be used for the stilling basin access ramp, dump trucks would haul the material to the ramp site and material would be spread with a bull dozer or placed with an excavator then spread with a bull dozer.

L-F channel - Some gravel will be used to line the bottom of each new weir. Temporary forms would be placed and a total of about 1,350 cy of concrete would be pumped into the forms.

8g. For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [help]

Fish ladder - The site will be excavated with excavators to remove part of the levee adjacent to the dam. The material removed consists of riprap, cobble, gravel, sand, and silt that was used to construct the levee in the early 1940s. Any excess material will be disposed of on site, above the ordinary high water line, or hauled off site and disposed of in a legal manner by the contractor. An access ramp to the stilling basin would be constructed on the south side of the channel.

L-F channel - At each weir to be modified, the riverbed will be excavated with excavators and skidsteer loaders. The material removed consists of a small amount of riprap and a large amount (up to 12,000 cubic yards) of riverbed cobble, gravel, and sand. The riprap and some of the riverbed material would be reused on site. Excess material would be hauled off site and disposed of in a legal manner by the contractor.

8h. Have you prepared a Water Quality Monitoring Plan (WQMP) for all in-water work (below ordinary high water), over water work or discharges to waters of the state?

☒ Yes ☐ No

If NO describe the monitoring that you will be conducting including parameters, equipment and locations, or explain why monitoring will not be necessary. [help]

Part 9–Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

9a. If you have already worked with any government agencies on this project, list them below. [help]

Agency Name	Contact Name	Phone	Most Recent Date of Contact
National Marine Fisheries Service	Colleen Fagan	541-805-1509	August 2023
U.S. Fish and Wildlife Service	Kat Sarensen	509-795-4776	August 2023
Washington Department of Fish and Wildlife	Dave Karl	509-527-4138	August 2023

9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 of this JARPA on the Washington Department of Ecology's 303(d) List? [help]

- **If Yes,** list the parameter(s) below.
- If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: https://ecology.wa.gov/Water-Shorelines/Water-quality/Water-improvement/Assessment-of-state-waters-303d.

☒ Yes ☐ No

Ammonia-N - Category 1
Chloride - Category 1
Lead - Category 2
pH - Category 4A
Temperature - Category 4A
Dissolved Oxygen - Category 4A
Bacteria - Fecal coliform - Category 5

9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [help]

- Go to http://cfpub.epa.gov/surf/locate/index.cfm to help identify the HUC.

HUC 12 - 170701020204

9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [help]

- Go to https://ecology.wa.gov/Water-Shorelines/Water-supply/Water-availability/Watershed-look-up to find the WRIA #.

WRIA 32

9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [help]

- Go to https://ecology.wa.gov/Water-Shorelines/Water-quality/Freshwater/Surface-water-quality-standards/Criteria for the standards.

☒ Yes ☐ No ☐ Not applicable

9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help]

- If you don't know, contact the local planning department.
- For more information, go to: https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-coastal-planning/Shoreline-laws-rules-and-cases.

☐ Urban ☐ Natural ☐ Aquatic ☐ Conservancy ☐ Other: _____

9g. What is the Washington Department of Natural Resources Water Type? [help]

- Go to http://www.dnr.wa.gov/forest-practices-water-typing for the Forest Practices Water Typing System.

☐ Shoreline ☒ Fish ☐ Non-Fish Perennial ☐ Non-Fish Seasonal

9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [help]

- **If No**, provide the name of the manual your project is designed to meet.

☒ Yes ☐ No

Name of manual: _____

9i. Does the project site have known contaminated sediment? [help]

- **If Yes**, please describe below.

☐ Yes ☒ No

9j. If you know what the property was used for in the past, describe below. [help]

The property has been used for flood risk reduction since 1942.

9k. Has a cultural resource (archaeological) survey been performed on the project area? [help]

- **If Yes**, attach it to your JARPA package.

☒ Yes ☐ No

9l. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [help]

Mid-Columbia Steelhead
Columbia Basin Bull Trout

9m. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. [help]

Riparian
Instream
Bull trout
Chinook salmon
Rainbow trout/steelhead
Black-crowned night-heron
Great blue heron
Hooded merganser

Part 10–SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at http://apps.oria.wa.gov/opas/.
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.
- For a list of addresses to send your JARPA to, click on agency addresses for completed JARPA.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help]

- For more information about SEPA, go to https://ecology.wa.gov/regulations-permits/SEPA-environmental-review.

☐ A copy of the SEPA determination or letter of exemption is included with this application.

☐ A SEPA determination is pending with _____ (lead agency). The expected decision date is _____.

☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]

☐ This project is exempt (choose type of exemption below).

☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt?

_____

☐ Other: _____

☒ SEPA is pre-empted by federal law.

10b. Indicate the permits you are applying for. (Check all that apply.) [help]

LOCAL GOVERNMENT

Local Government Shoreline permits:

☐ Substantial Development ☐ Conditional Use ☐ Variance

☒ Shoreline Exemption Type (explain): Federal Project on Federal land

Other City/County permits:

☐ Floodplain Development Permit ☐ Critical Areas Ordinance

STATE GOVERNMENT

Washington Department of Fish and Wildlife:

☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption – Attach Exemption Form

Washington Department of Natural Resources:

☐ Aquatic Use Authorization

Complete JARPA Attachment E and submit a check for $25 payable to the Washington Department of Natural Resources. **Do not send cash.**

Washington Department of Ecology:

☒ Section 401 Water Quality Certification

☐ Authorization to impact waters of the state, including wetlands (Check this box if the proposed impacts are to waters not subject to the federal Clean Water Act)

FEDERAL AND TRIBAL GOVERNMENT

United States Department of the Army (U.S. Army Corps of Engineers):

☐ Section 404 (discharges into waters of the U.S.) ☐ Section 10 (work in navigable waters)

United States Coast Guard:

For projects or bridges over waters of the United States, contact the U.S. Coast Guard at:

☐ Bridge Permit: D13-SMB-D13-BRIDGES@uscg.mil

☐ Private Aids to Navigation (or other non-bridge permits): D13-SMB-D13-PATON@uscg.mil

United States Environmental Protection Agency:

☐ Section 401 Water Quality Certification (discharges into waters of the U.S.) on tribal lands where tribes do not have treatment as a state (TAS)

Tribal Permits: (Check with the tribe to see if there are other tribal permits, e.g., Tribal Environmental Protection Act, Shoreline Permits, Hydraulic Project Permits, or other in addition to CWA Section 401 WQC)

☐ Section 401 Water Quality Certification (discharges into waters of the U.S.) where the tribe has treatment as a state (TAS).

Part 11–Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [help]

11a. Applicant Signature (required) [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. BJT (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. BJT (initial)

Benjamin J Tice	TICE.BENJAMIN.J.1229098566 Digitally signed by TICE.BENJAMIN.J.1229098566 Date: 2023.09.07 09:45:14 -07'00'	9/6/2023
Applicant Printed Name	Applicant Signature	Date

11b. Authorized Agent Signature [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Anneli K Colter	COLTER.ANNELI.K.1231568367 Digitally signed by COLTER.ANNELI.K.1231568367 Date: 2023.09.07 08:27:43 -07'00'	9/6/2023
Authorized Agent Printed Name	Authorized Agent Signature	Date

11c. Property Owner Signature (if not applicant) [help]

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name	Property Owner Signature	Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than $10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 09/2018

WASHINGTON STATE
Joint Aquatic Resources Permit Application (JARPA) [help]

US Army Corps of Engineers
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

TO BE COMPLETED BY APPLICANT [help]

Project Name: Mill Creek Fish Ladder and Low Flow Channel

Location Name (if applicable): Walla Walla County

Attachment C:
Contact information for adjoining property owners. [help]

Use this attachment only if you have more than four adjoining property owners.

Use black or blue ink to enter answers in white spaces below.

1. Contact information for all adjoining property owners. [help]

Name	Mailing Address	Tax Parcel # (if known)
Hoalst, Dean	3301 Reservoir Road Walla Walla, WA 99362	360723110014
Phillips, Charles	3240 Reservoir Road Walla Walla, WA 99362	360723120003
Walla Walla Community College	472 N. Tausick Way Walla Walla, WA 99362	360714340028
Klicker, Nancy	 Walla Walla, WA 99362	360714410037
Jepson, Kenneth and Dawn	270 Lookingglass Road Walla Walla, WA 99362	360713500009
Holme, Susan	249 Lookingglass Road Walla Walla, WA 99362	360713500007
Glynn, James and Tracy	215 Lookingglass Road Walla Walla, WA 99362	360713500008
Ervin, Richard and Cecile	183 Lookingglass Road Walla Walla, WA 99362	360713500006

WASHINGTON STATE
Joint Aquatic Resources Permit Application (JARPA) [help]

US Army Corps of Engineers ®
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

TO BE COMPLETED BY APPLICANT [help]

Project Name: Mill Creek Low Flow Channel and Fish Ladder

Location Name (if applicable): Walla Walla County

Attachment C:
Contact information for adjoining property owners. [help]

Use this attachment only if you have more than four adjoining property owners.

Use black or blue ink to enter answers in white spaces below.

1. Contact information for all adjoining property owners. [help]

Name	Mailing Address	Tax Parcel # (if known)
RF Kibler Farm, LLC	658 Mill Creek Road Walla Walla, WA 99362	360713310020
Lane, Philip and Suthida	756 Mill Creek Road Walla Walla, WA 99362	360713130007
Winters, Pauline	662 Mill Creek Road Walla Walla, WA 99362	360713310021

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-014 rev. 10/2016

WASHINGTON STATE
Joint Aquatic Resources Permit Application (JARPA) [help]

US Army Corps of Engineers
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

TO BE COMPLETED BY APPLICANT [help]

Project Name: Mill Creek Fish Ladder and Low Flow Channel

Location Name (if applicable): Walla Walla, County

Attachment D:
Construction sequence [help]

Use this attachment only if your project will be constructed in phases or stages. Complete the outline showing the construction sequence and timing of activities, including the start and end dates of each phase or stage.

Use black or blue ink to enter answers in white spaces below.

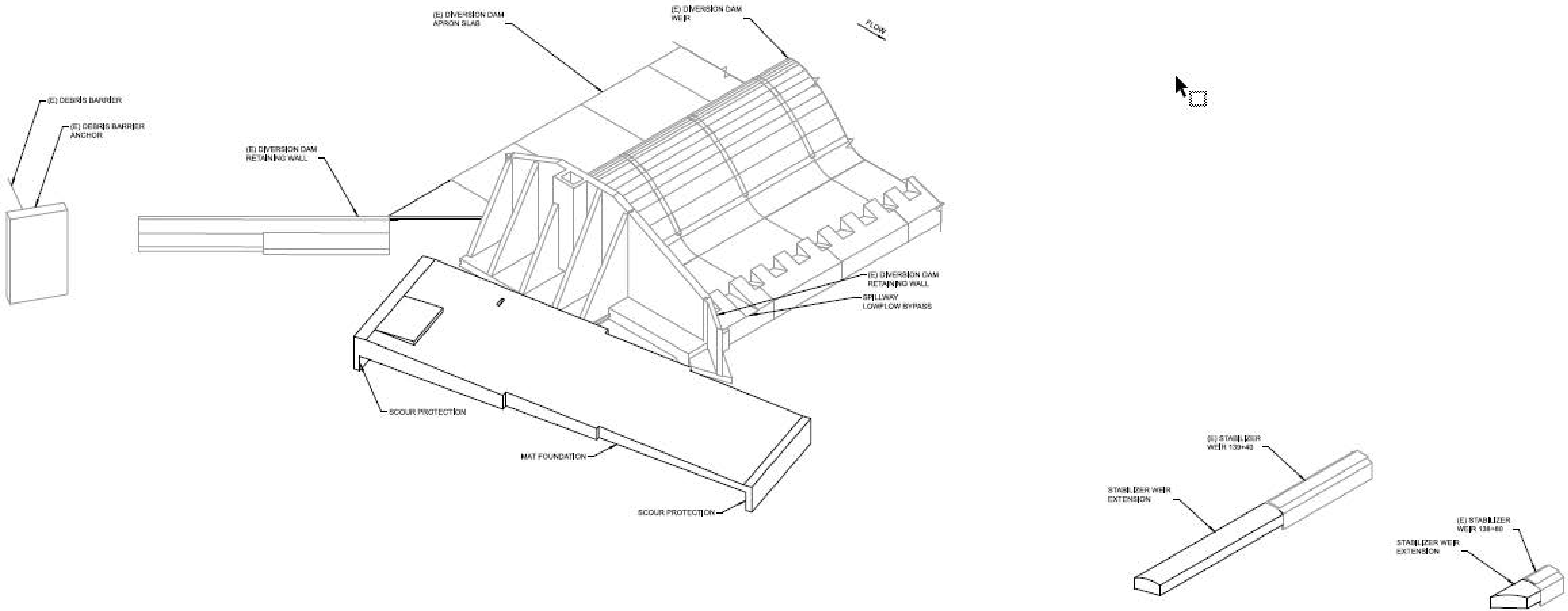
Phase or Stage	Start Date	End Date	Activity Description
Ladder	June 15, 2024	December 31, 2025	A new fish ladder will be constructed at the Mill Creek Diversion Dam. It will take 2 years (2 in-water work windows) to complete this work. Once the cofferdam is in place, work behind the cofferdam will continue outside of the in-water work window.
Low Flow Channel	June 15, 2024	October, 31, 2025	A low flow channel will be constructed on the Federally owned portion of Mill Creek. It will take at least 2 years (2 in-water work windows) to complete 80 weirs.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-015 rev. 10/2016


Low Flow Channel
Fish Ladder
Dunham Cellars
E Isaacs Ave
Walla Walla Community College
Mill Creek and Bennington Lake...
Mill Creek Sportsplex
W-7 Walla Walla
Google Earth

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE, CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE, SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY



A1 ISOMETRIC: NEW FISH LADDER STRUCTURE
SCALE: NTS

US Army Corps of Engineers®

2nd INTERIM REVIEW 06/22/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: S. OLSON	ISSUE DATE:
DRAWN BY: P. HARPOLE	SOLICITATION NO.:
CHECKED BY: J. LOMELAND	CONTRACT NO.:
SUBMITTED BY: JULIO MORELOS, P.E.	
SIZE: ANSI D	FILE NO: FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

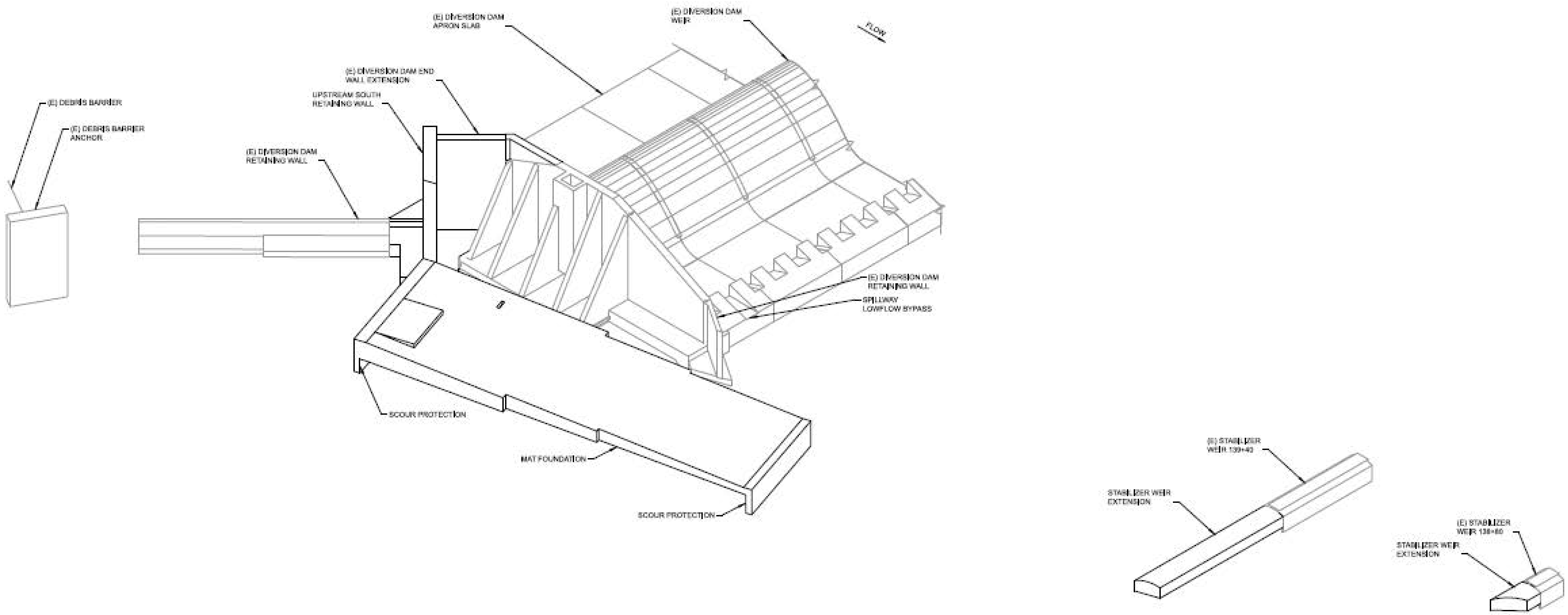
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

ISOMETRIC
FISH LADDER, BYPASS CHANNELS,
EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID
S-901

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE. SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY.



A1 ISOMETRIC: NEW FISH LADDER STRUCTURE

SCALE: NTS

US Army Corps of Engineers®

2nd INTERIM REVIEW 06/22/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: S. OLSON	ISSUE DATE:
DRAWN BY: P. HARPOLE	SOLICITATION NO.:
CHECKED BY: J. LOMELAND	CONTRACT NO.:
SUBMITTED BY: JULIO MORELOS, P.E.	
SIZE: ANSI D	FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

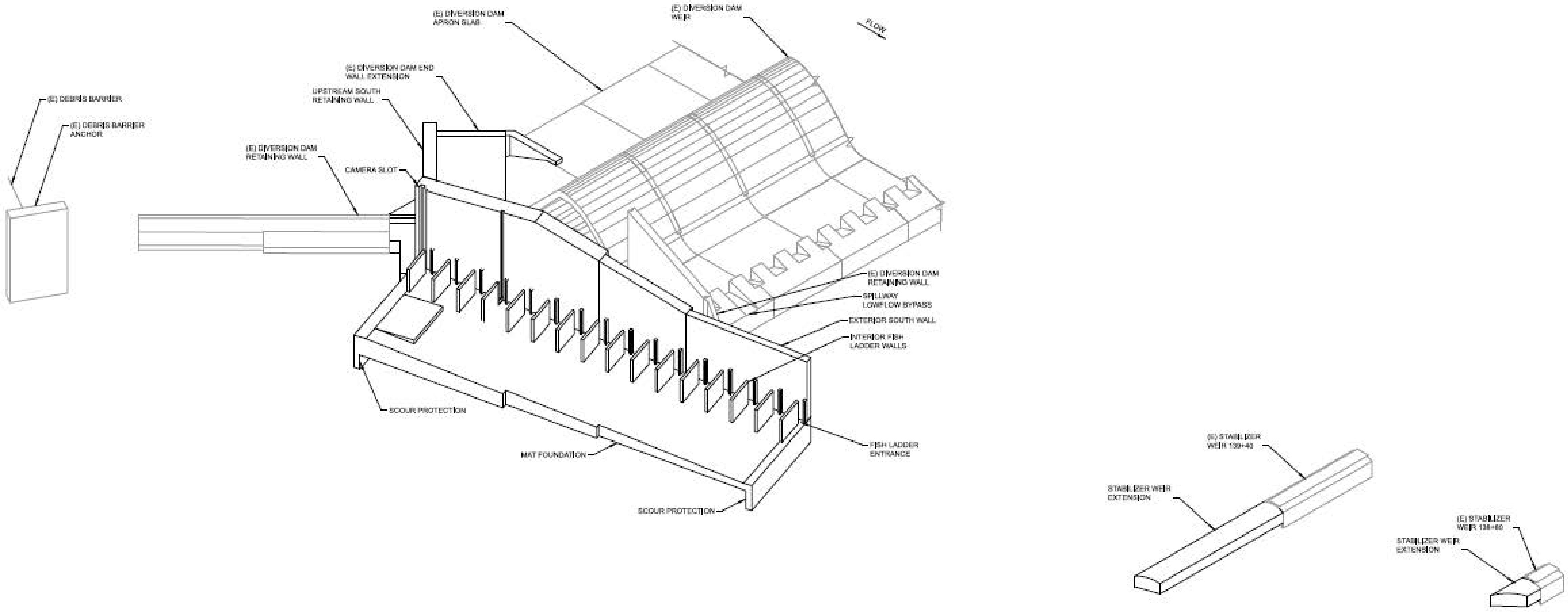
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

ISOMETRIC
FISH LADDER, BYPASS CHANNELS,
EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID
S-902

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE, SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY.



(A1) ISOMETRIC: NEW FISH LADDER STRUCTURE
SCALE: NTS

US Army Corps of Engineers®

2nd INTERIM REVIEW 06/22/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: S. OLSON
DRAWN BY: P. HARPOLE
CHECKED BY: J. LOMELAND
SUBMITTED BY: JULIO MORELOS, P.E.
SIZE: ANSI D
FILE NO.:
FILE NUMBER:
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

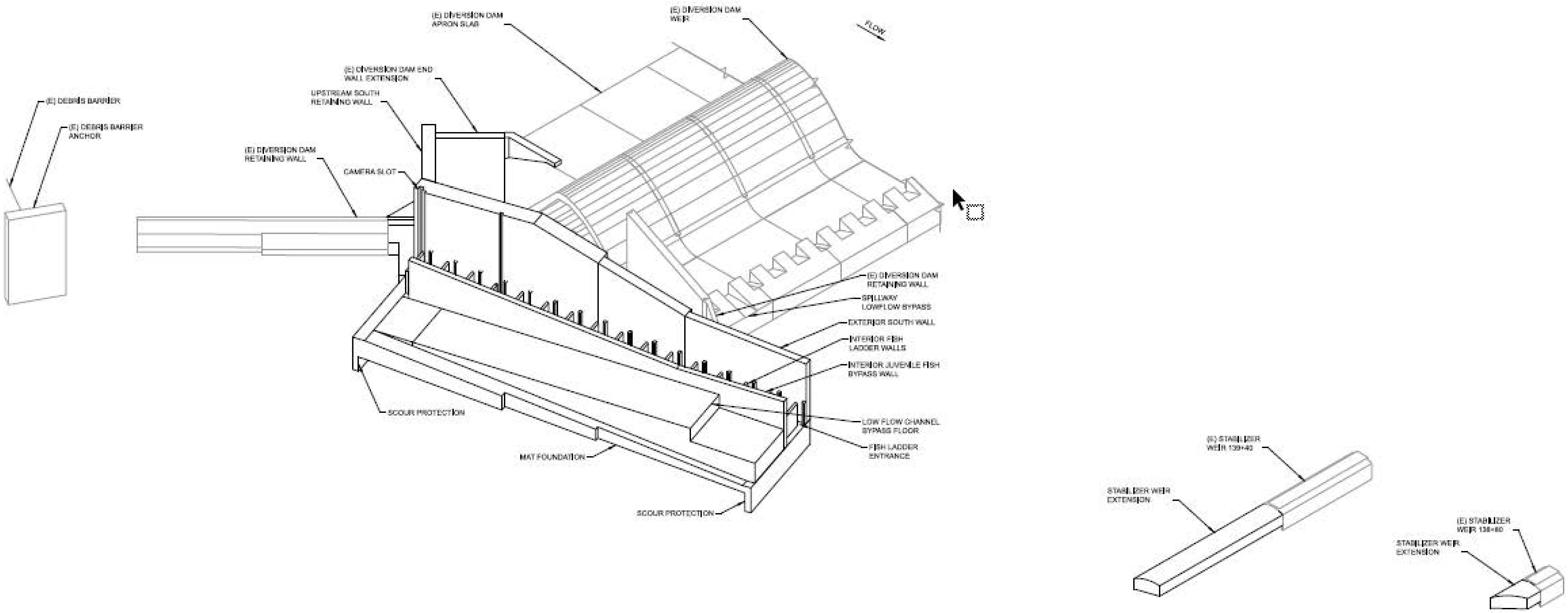
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

ISOMETRIC
FISH LADDER, BYPASS CHANNELS, EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID
S-903

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE. SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY.



A1 ISOMETRIC: NEW FISH LADDER STRUCTURE
SCALE: NTS

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MARK	DESCRIPTION	DATE

DESIGNED BY: S. OLSON
DRAWN BY: P. HARPOLE
CHECKED BY: J. LOMELAND
SUBMITTED BY: JULIO MORELOS, P.E.
SIZE: ANSI D
FILE NAME: FILE NUMBER
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

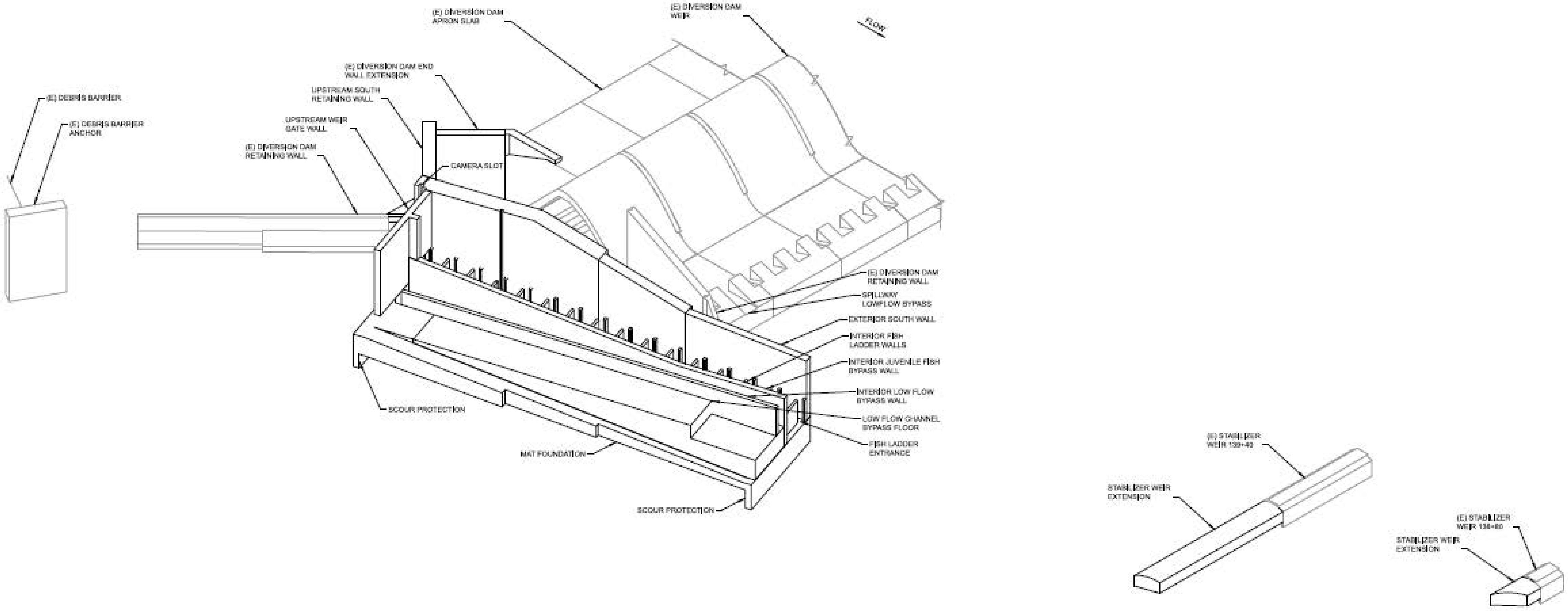
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

ISOMETRIC
FISH LADDER, BYPASS CHANNELS, EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID
S-904

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE. SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY.



A1 ISOMETRIC: NEW FISH LADDER STRUCTURE

SCALE: NTS

US Army Corps of Engineers®

2nd INTERIM REVIEW

06/22/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: S. OLSON
DRAWN BY: P. HARPOLE
CHECKED BY: J. LOMELAND
SUBMITTED BY: JULIO MORELOS, P.E.
SIZE: ANSI D
FILE NAME: FILE NUMBER
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

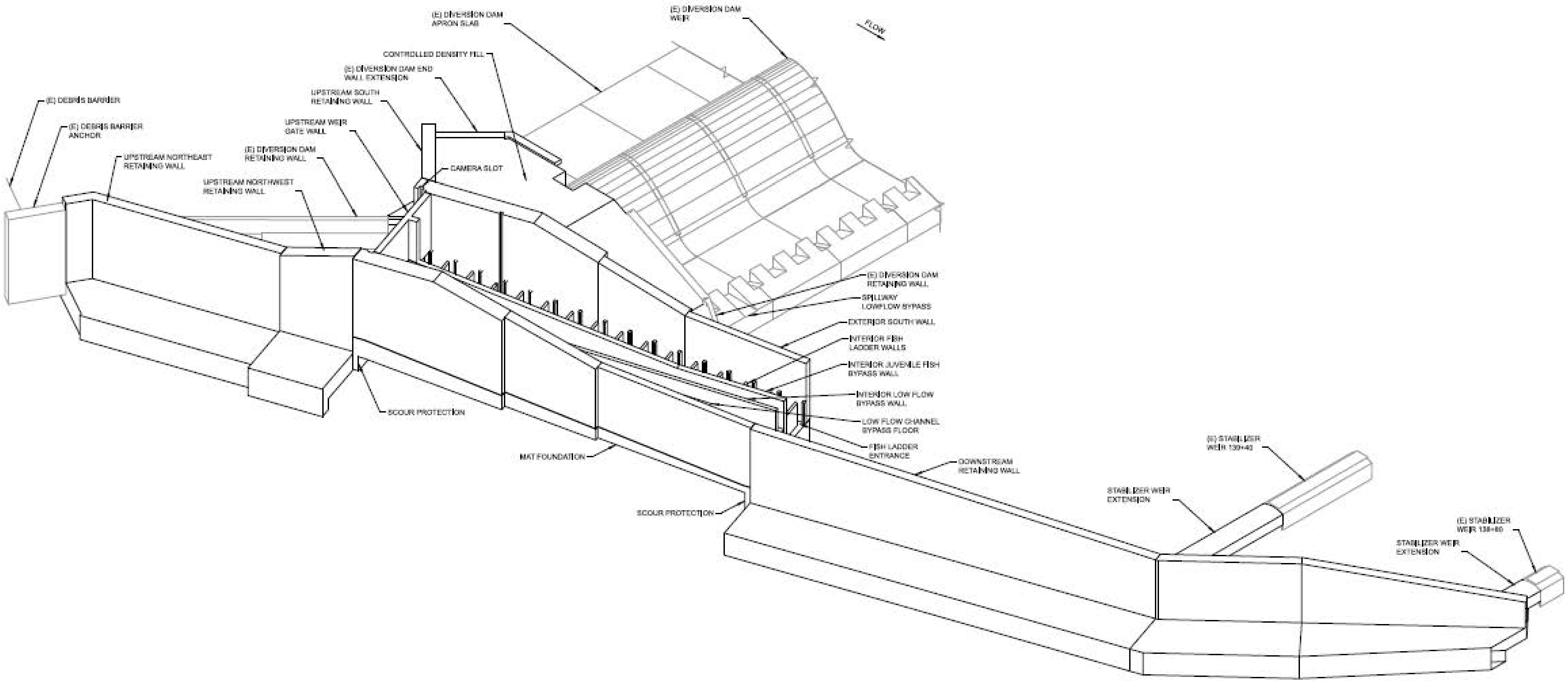
ISOMETRIC
FISH LADDER, BYPASS CHANNELS,
EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID

S-905

GENERAL SHEET NOTES

1. ISOMETRIC SEQUENCE DOES NOT DEFINE REQUIRED CONSTRUCTION SEQUENCE. CONTRACTOR SHALL DEFINE THE CONSTRUCTION SEQUENCE. SEQUENCING SHOWN FOR ILLUSTRATION PURPOSES ONLY.



NOTE: UPPER ACCESS PLATFORM AND FISH LADDER WALKWAY NOT SHOWN FOR CLARITY.

A1 ISOMETRIC: NEW FISH LADDER STRUCTURE

SCALE: NTS

US Army Corps of Engineers®

2nd INTERIM REVIEW 06/22/2023

MARK | DESCRIPTION | DATE

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

DESIGNED BY: S. OLSON
DRAWN BY: P. HARPOLE
CHECKED BY: J. LOMELAND
SUBMITTED BY: JULIO MORELOS, P.E.
SIZE: ANSI D
FILE NO: FILE NUMBER
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

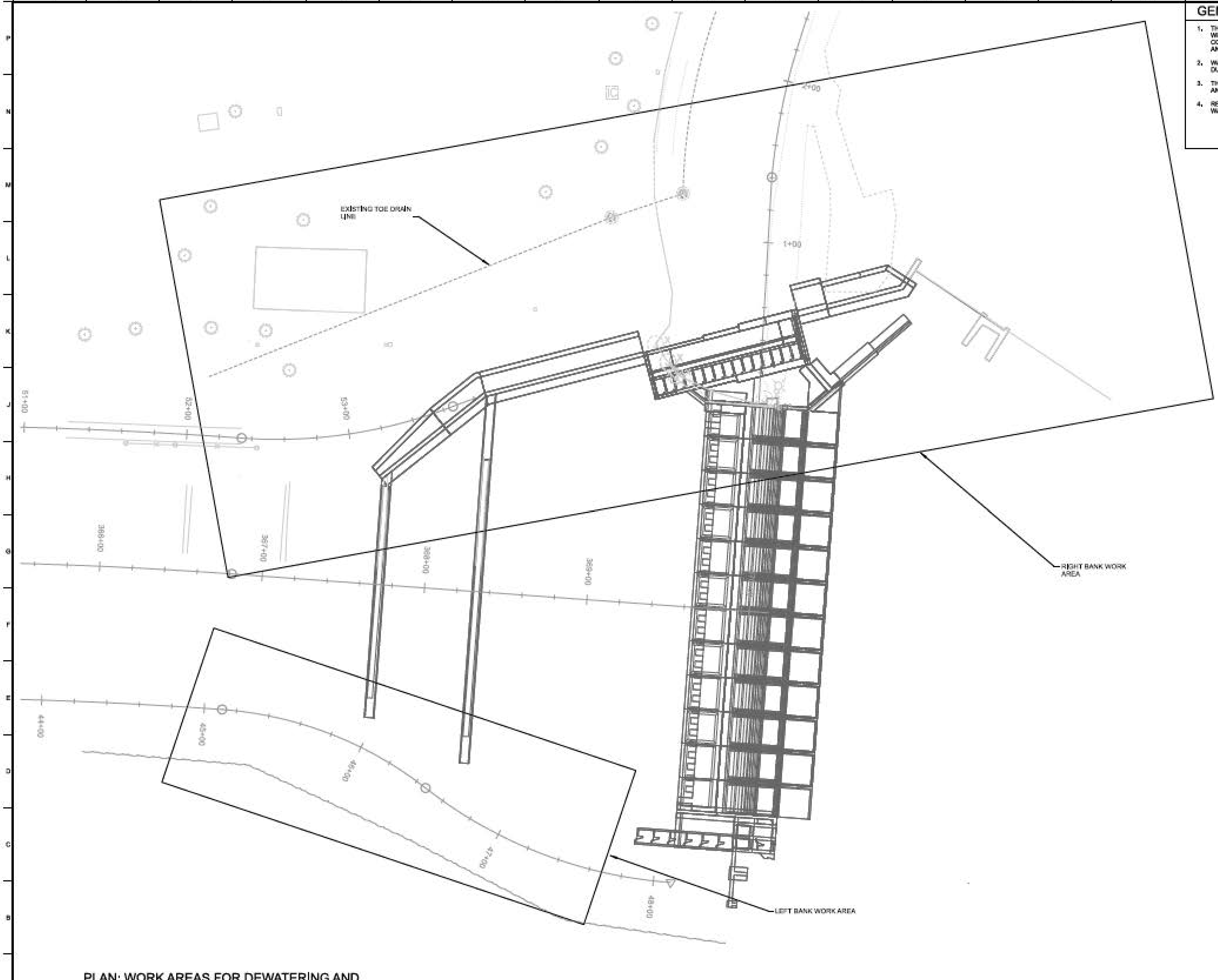
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

ISOMETRIC
FISH LADDER, BYPASS CHANNELS, EXISTING DIVERSION DAM AND STABILIZER WEIRS

SHEET ID
S-906

GENERAL SHEET NOTES

1. THE WORK AREAS SHOWN ARE THE APPROXIMATE AREAS AND LOCATIONS WHICH WILL REQUIRE DIVERSION OF WATER AND DEWATERING DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF DIVERSION AND DEWATERING SYSTEMS.
2. WATER DIVERSION STRUCTURES MUST BE INSTALLED AND REMOVED DURING THE IN WATER WORK WINDOW LISTED IN THE SPECIFICATIONS.
3. THE ENTIRE LENGTH OF THE DIVERSION DAM CREST MUST BE ACCESSIBLE AND AVAILABLE FOR SPILLING OF HIGH FLOWS DURING A HIGH WATER EVENT.
4. REFER TO SPECIFICATIONS SECTION 31 23 19.11 26 DIVERSION AND CARE OF WATER FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



A1 PLAN: WORK AREAS FOR DEWATERING AND DIVERSION OF WATER

SCALE: 1"=30'

0 30ft 60ft

US Army Corps of Engineers®

2nd INTERIM REVIEW

06/22/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: J. BOND	ISSUE DATE:
DRAWN BY: G. FRENCH	SOLICITATION NO.:
CHECKED BY: N. PIERSON	CONTRACT NO.:
SUBMITTED BY: MICHAEL FRANSSEN, P.E.	
SIZE: ANSI D	FILE NAME / FILE NUMBER

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

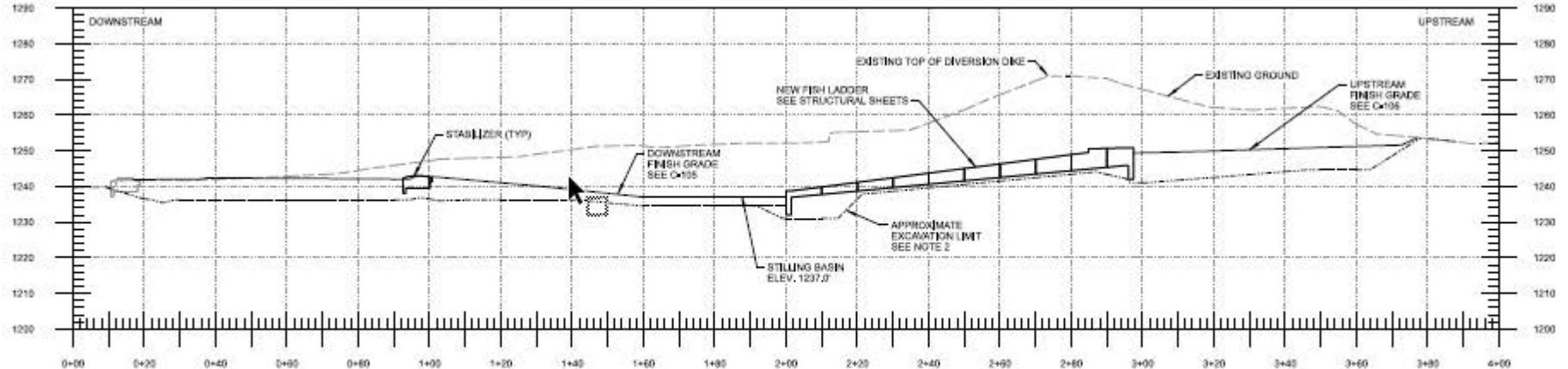
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

PLAN VIEW
WORK AREAS FOR DEWATERING AND DIVERSION OF WATER

SHEET ID

G-103

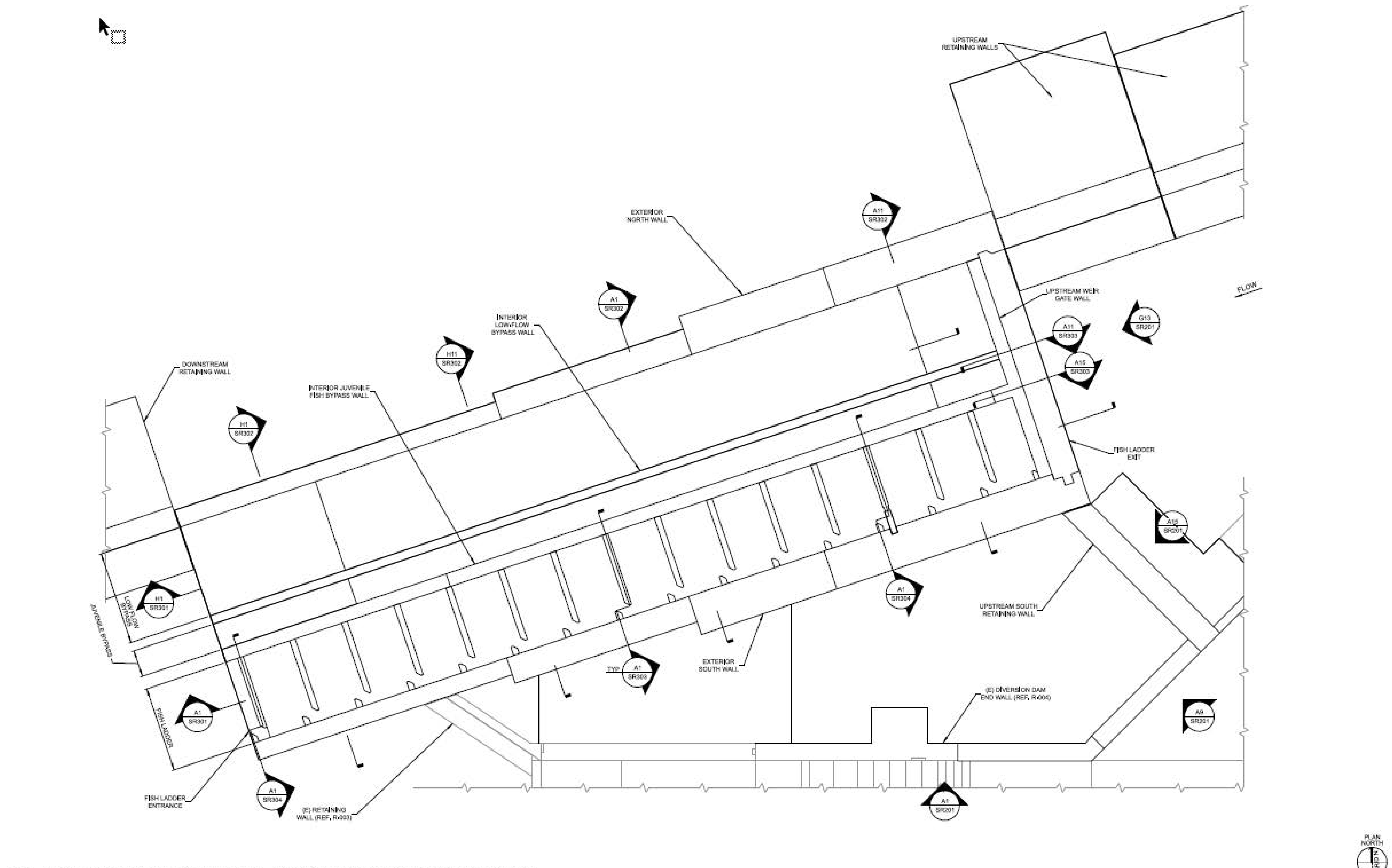
12:50:29 PM 6/22/2023



A3 PROFILE: FISH LADDER ALIGNMENT

SCALE: 1"=20'

0 20 40



A1 REINFORCING PLAN: FISH LADDER, JUVENILE BYPASS AND LOW FLOW BYPASS

SCALE: 3/16" = 1'-0"

US Army Corps of Engineers®

2nd INTERIM REVIEW 06/22/2023

MARK	DESCRIPTION	DATE

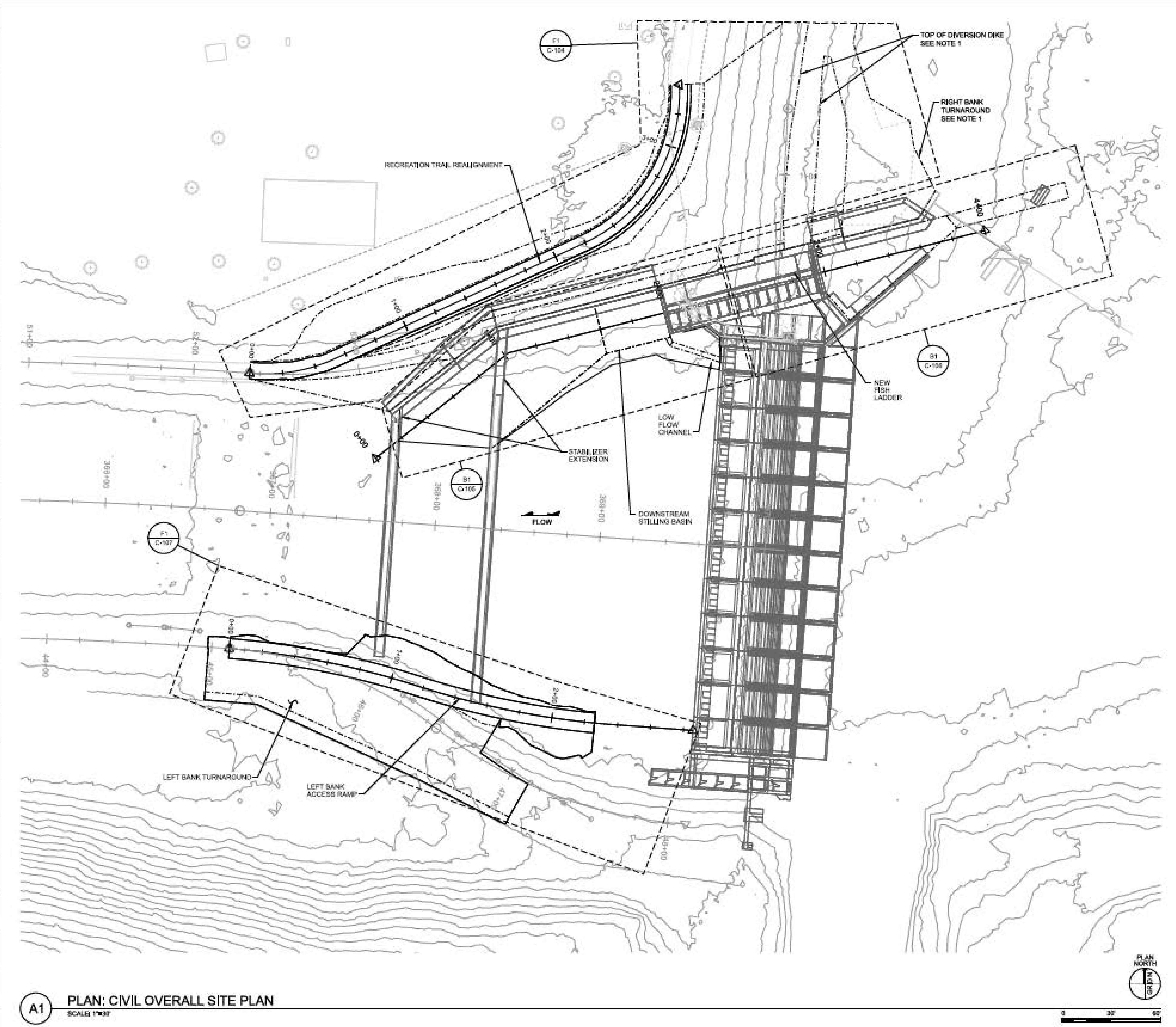
U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

DESIGNED BY: S. OLSON
DRAWN BY: P. HARPOLE
CHECKED BY: J. LOMELAND
SUBMITTED BY: JULIO MORELOS, P.E.
SIZE: ANSI D
FILE NO: FILE NUMBER
ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

REINFORCING PLAN
FISH LADDER AND BYPASS CHANNELS
SECTION CALLOUTS

SHEET ID
SR101



A1 PLAN: CIVIL OVERALL SITE PLAN
SCALE: 1"=30'

GENERAL SHEET NOTES

1. TOP OF DIVERSION DIKE GEOMETRY WILL BE RESTORED TO EXISTING CONDITIONS AFTER FISH LADDER CONSTRUCTION AND RELATED EXCAVATION.
2. RIGHT BANK TURNAROUND AND RAMP WILL BE RESTORED TO EXISTING GRADE AFTER CONSTRUCTION. EXTEND TURNAROUND AREA AT THE SAME GRADE TO THE BACK EDGE OF THE RETAINING WALL AND TO THE BACK EDGE OF THE DEBRIS BARRIER STRUCTURE.

US Army Corps of Engineers®

2nd INTERIM REVIEW
06/22/2023

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

DESIGNED BY: J. WEST	ISSUE DATE:
DRAWN BY: G. FRENCH	SOLICITATION NO.:
CHECKED BY: N. PIERSON	CONTRACT NO.:
SUBMITTED BY: MICHAEL FRANSSEN, P.E.	
SIZE: ANSI D	FILE NO.: FILE NUMBER

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
DIVERSION DAM FISH LADDER

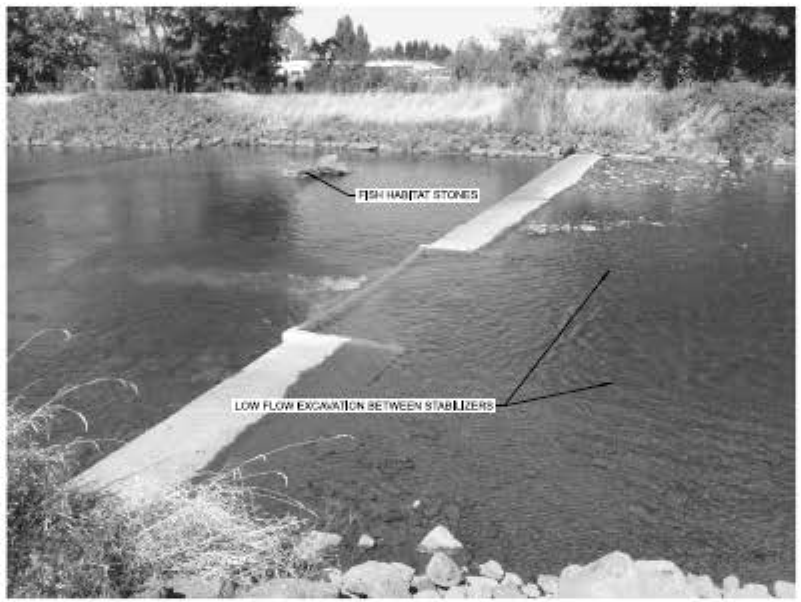
SITE PLAN - CIVIL OVERALL PLAN

SHEET ID
C-102

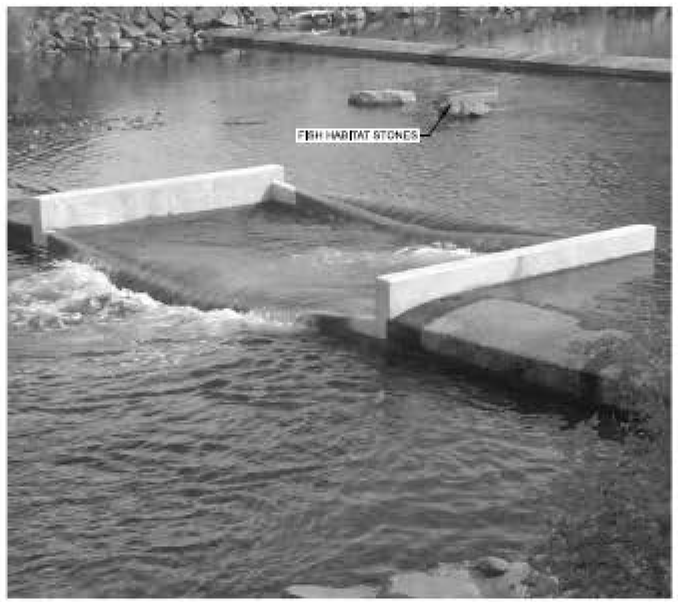
H1 PHOTO: EXISTING STABILIZER AND GABION

H7 PHOTO: EXISTING SINGLE NOTCH STRUCTURE

H14 PHOTO: EXISITNG DOUBLE NOTCH STRUCTURE



A1 PHOTO: EXISTING SINGLE NOTCH STRUCTURE WTIH FLOW



...XISTING NOTCH STRUCTURES WITH FLOW

US Army Corps of Engineers®

INTERIM REVIEW
08/25/2023

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

DESIGNED BY: G. FRENCH	ISSUE DATE:
DRAWN BY: G. FRENCH	SOLICITATION NO.:
CHECKED BY: A. MORELOS	CONTRACT NO.:
SUBMITTED BY: PHILIP AUTH, P.E.	
SIZE: ANSI D	FILE NAME:

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
FISH PASSAGE
LOW FLOW CHANNEL NOTCHING PHASE 2

PHOTOS
EXISTING NOTCH STRUCTURES

SHEET ID
G-901

INITIAL

GENERAL NOTES

1. THE DETAILS SHOWN ON THIS SHEET ARE A CONCEPTUAL DESIGN ONLY OF PREVIOUS CHANNEL DEWATERING METHODS THAT HAVE BEEN SUCCESSFUL. THE CONTRACTOR SHALL DESIGN AND SUBMIT FOR APPROVAL A DEWATERING PLAN IN ACCORDANCE WITH THE SPECIFICATIONS.

A2 PHOTO: CONCEPTUAL DEWATERING

US Army Corps of Engineers®

INTERIM REVIEW
08/25/2023

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

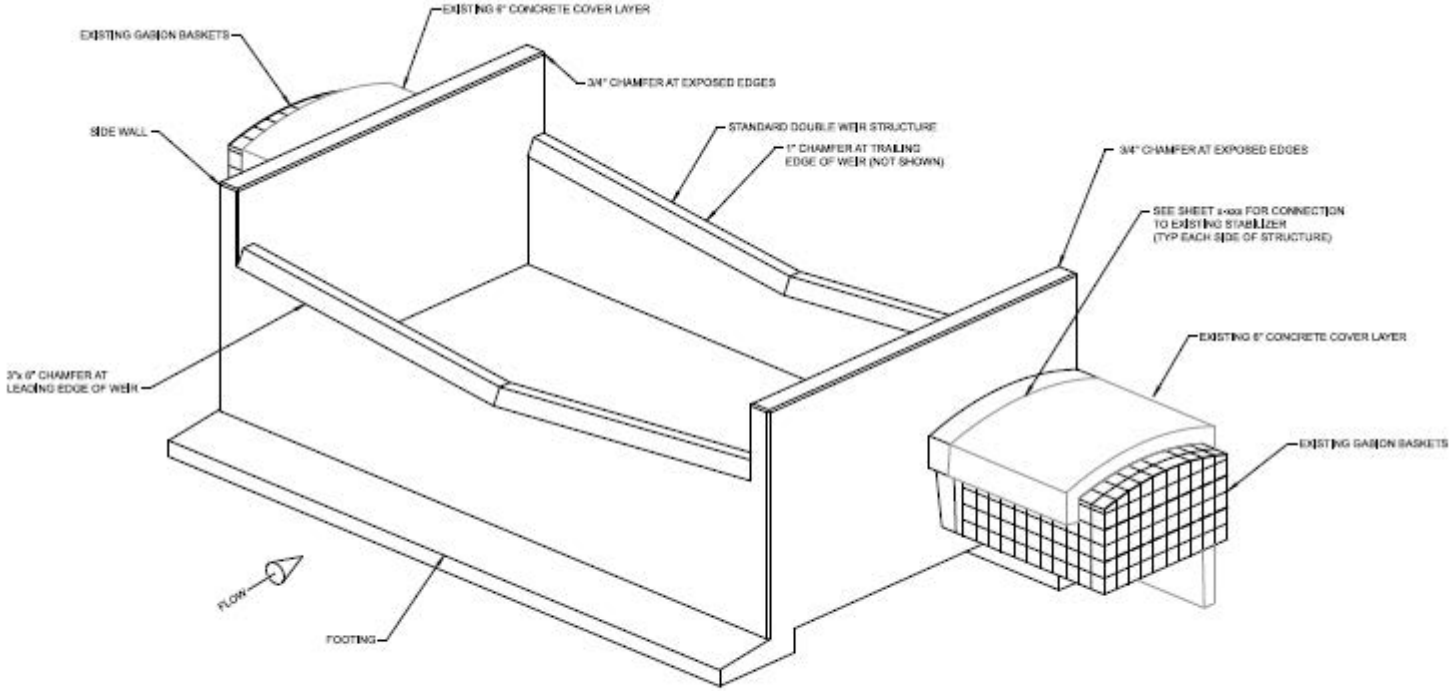
DESIGNED BY: G. FRENCH	ISSUE DATE:
DRAWN BY: G. FRENCH	SOLICITATION NO.:
CHECKED BY: A. MORELOS	CONTRACT NO.:
SUBMITTED BY: PHILIP AUTH, P.E.	
SIZE: ANSI D	FILE NO.:

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
FISH PASSAGE
LOW FLOW CHANNEL NOTCHING PHASE 2

PHOTOS
PREVIOUS CHANNEL DEWATERING

SHEET ID
G-902

INITIAL

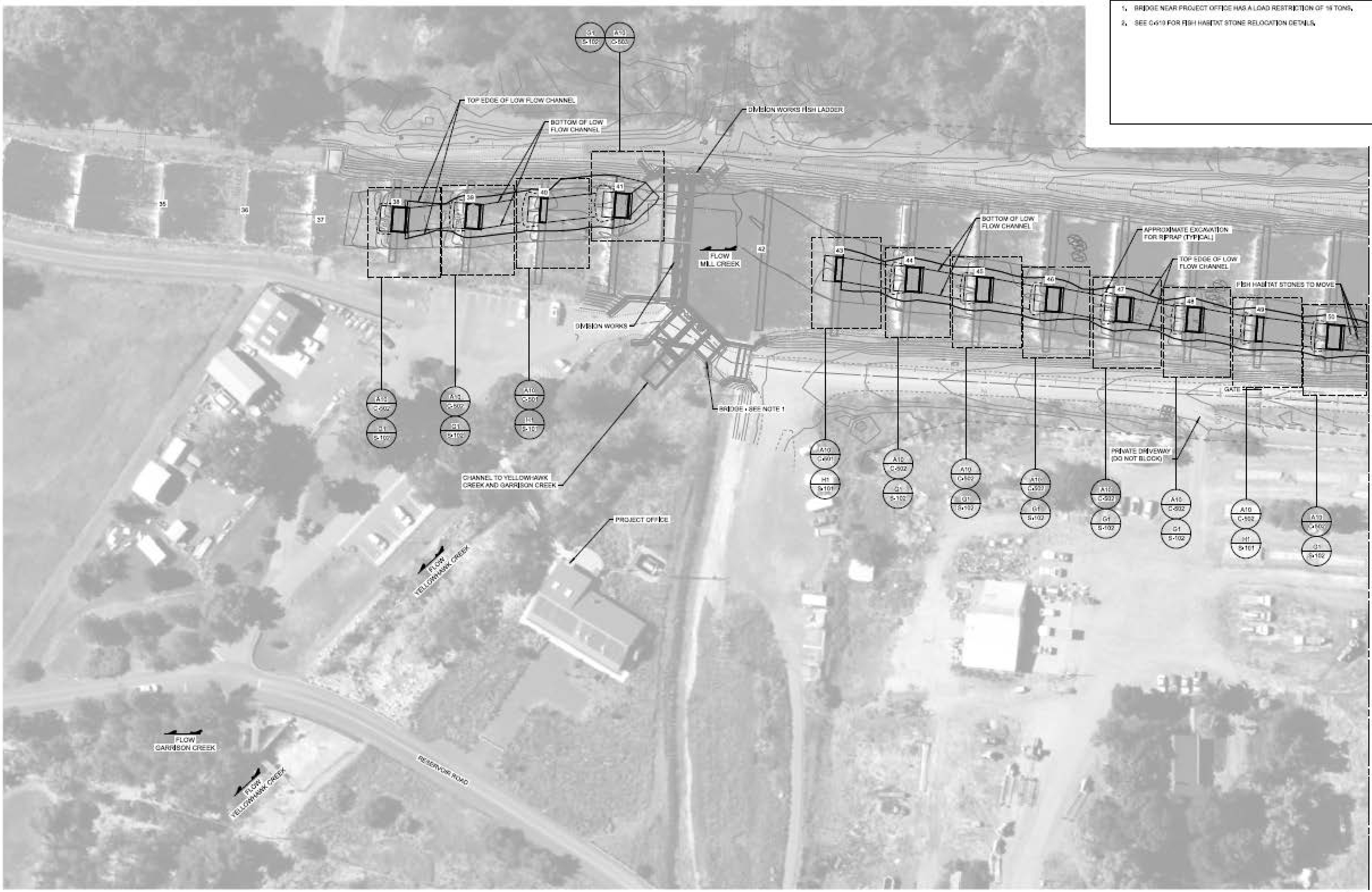


H1 ISOMETRIC: STANDARD DOUBLE WEIR STRUCTURE

SCALE: NTS

GENERAL SHEET NOTES

1. BRIDGE NEAR PROJECT OFFICE HAS A LOAD RESTRICTION OF 16 TONS.
2. SEE C-510 FOR FISH HABITAT STONE RELOCATION DETAILS.



A1 PLAN: WEIR 34 THROUGH WEIR 50

SCALE: 1"=40'

NORTH

US Army Corps of Engineers®

INTERIM REVIEW
08/25/2023

MARK	DESCRIPTION	DATE

DESIGNED BY: J. WEST	ISSUE DATE:	
DRAWN BY: G. FRENCH	SOLICITATION NO.:	
CHECKED BY: N. JENSON	CONTRACT NO.:	
SUBMITTED BY: MICHAEL FRANSSON, P.E.		
SIZE: ANSI D	FILE NO.:	

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
201 N 3RD AVE
WALLA WALLA, WASHINGTON

MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
FISH PASSAGE
LOW FLOW CHANNEL NOTCHING PHASE 2

PLAN
WEIR MODIFICATIONS
WEIR 38 THROUGH WEIR 50

SHEET ID
C-101

INITIAL

GENERAL SHEET NOTES

1. STABILIZERS 53, 54, AND 55 HAVE PREVIOUSLY CONSTRUCTED LOW FLOW WEIRS SIMILAR TO THIS CONTRACT. THE SINGLE WEIR STRUCTURE IN STABILIZER 53 WILL BE REMOVED AND REPLACED WITH A CUSTOM DOUBLE WEIR STRUCTURE.
2. SEE C-510 FOR FISH HABITAT STONE RELOCATION DETAILS.

A1 PLAN: WEIR 51 THROUGH WEIR 69

INTERIM REVIEW

08/25/2023

US Army Corps of Engineers

U.S. ARMY CORPS OF ENGINEERS
WALLA WALLA DISTRICT
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WALLA WALLA, WASHINGTON

DESIGNED BY: J. WEST
DRAWN BY: C. FRENCH
CHECKED BY: N. PIERSON
SUBMITTED BY: MICHAEL FRANSSEN, P.E.

ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:

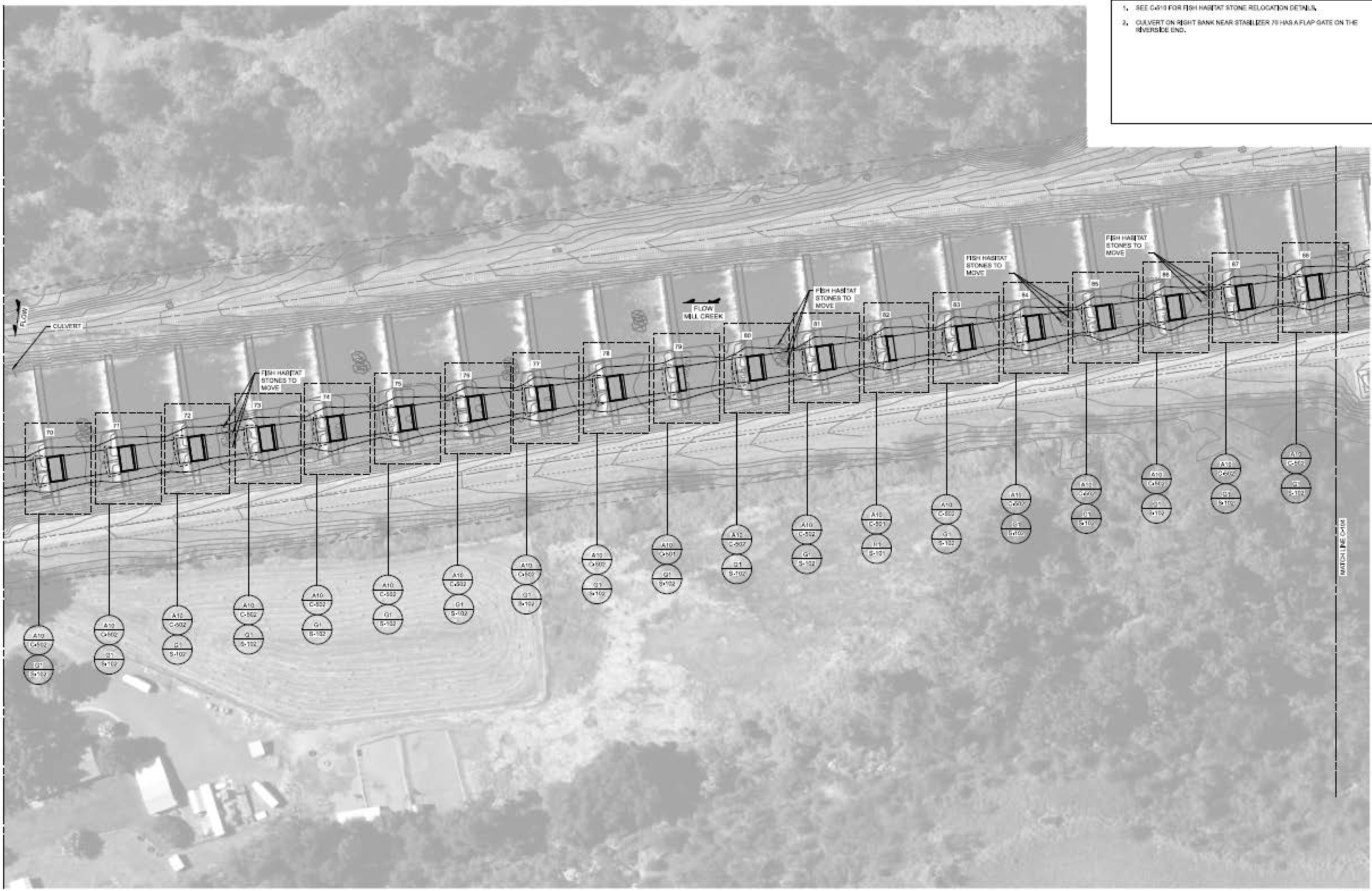
MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
FISH PASSAGE
LOW FLOW CHANNEL NOTCHING PHASE 2

PLAN
WEIR MODIFICATIONS
WEIR 51 THROUGH WEIR 69

SHEET ID
C-102

GENERAL SHEET NOTES

1. SEE C-510 FOR FISH HABITAT STONE RELOCATION DETAILS.
2. CULVERT ON RIGHT BANK NEAR STABILIZER 70 HAS A FLAP GATE ON THE RIVERSIDE END.



A1 PLAN: WEIR 70 THROUGH WEIR 88

SCALE: 1"=40'

US Army Corps of Engineers

INTERIM REVIEW

08/25/2023

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PLAN
WEIR MODIFICATIONS
WEIR 70 THROUGH WEIR 88

SHEET ID

C-103

INITIAL

GENERAL SHEET NOTES

1. SEE C-510 FOR FISH HABITAT STONE RELOCATION DETAILS.

A1 PLAN: WEIR 89 THROUGH WEIR 107

SCALE: 1"=40'

NORTH

0 40' 80'

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SUBMITTED BY: MICHAEL FRANSSEN, P.E.	
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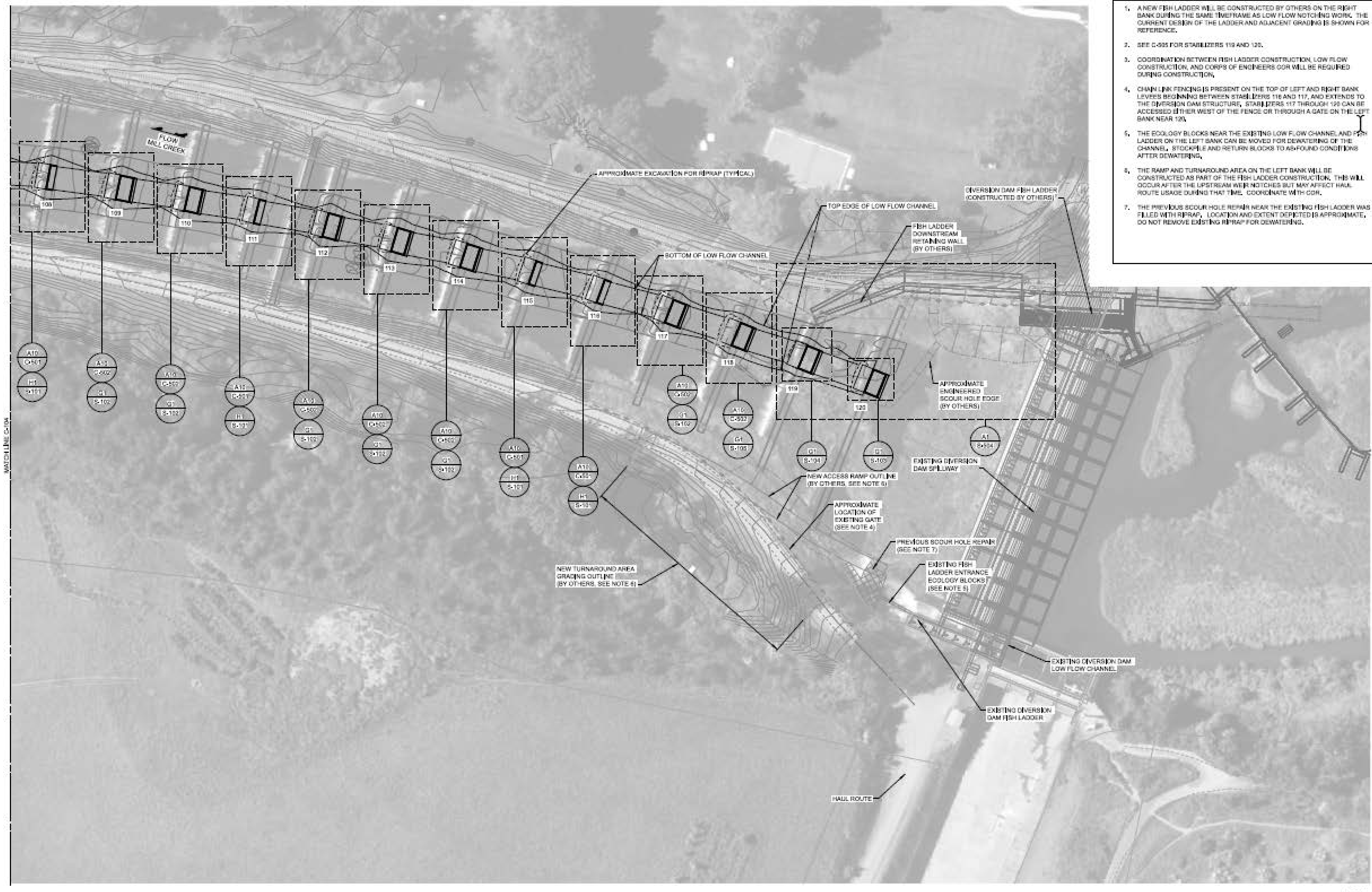
WALLA WALLA, WASHINGTON
FISH PASSAGE
LOW FLOW CHANNEL NOTCHING PHASE 2

PLAN
WEIR MODIFICATIONS
WEIR 89 THROUGH WEIR 107

SHEET ID
C-104

INITIAL



A1 PLAN: WEIR 108 THROUGH WEIR 120

GENERAL SHEET NOTES

1. A NEW FISH LADDER WILL BE CONSTRUCTED BY OTHERS ON THE RIGHT BANK DURING THE SAME TIMEFRAME AS LOW FLOW NOTCHING WORK. THE CURRENT DESIGN OF THE LADDER AND ADJACENT GRADING IS SHOWN FOR REFERENCE.
2. SEE C-505 FOR STABILIZERS 119 AND 120.
3. COORDINATION BETWEEN FISH LADDER CONSTRUCTION, LOW FLOW CONSTRUCTION, AND CORPS OF ENGINEERS COR WILL BE REQUIRED DURING CONSTRUCTION.
4. CHAIN LINK FENCING IS PRESENT ON THE TOP OF LEFT AND RIGHT BANK LEVEES BEGINNING BETWEEN STABILIZERS 116 AND 117, AND EXTENDS TO THE DIVERSION DAM STRUCTURE. STABILIZERS 117 THROUGH 120 CAN BE ACCESSED EITHER WEST OF THE FENCE OR THROUGH A GATE ON THE LEFT BANK NEAR 120.
5. THE ECOLOGY BLOCKS NEAR THE EXISTING LOW FLOW CHANNEL AND FISH LADDER ON THE LEFT BANK CAN BE MOVED FOR DEWATERING OF THE CHANNEL. STOCKPILE AND RETURN BLOCKS TO AS-FOUND CONDITIONS AFTER DEWATERING.
6. THE RAMP AND TURNAROUND AREA ON THE LEFT BANK WILL BE CONSTRUCTED AS PART OF THE FISH LADDER CONSTRUCTION. THIS WILL OCCUR AFTER THE UPSTREAM WEIR NOTCHES BUT MAY AFFECT HAUL ROUTE USAGE DURING THAT TIME. COORDINATE WITH COR.
7. THE PREVIOUS SCOUR HOLE REPAIR NEAR THE EXISTING FISH LADDER WAS FILLED WITH RIPRAP. LOCATION AND EXTENT DEPICTED IS APPROXIMATE. DO NOT REMOVE EXISTING RIPRAP FOR DEWATERING.

US Army Corps of Engineers®

INTERIM REVIEW
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MILL CREEK FLOOD CONTROL PROJECT
WALLA WALLA, WASHINGTON
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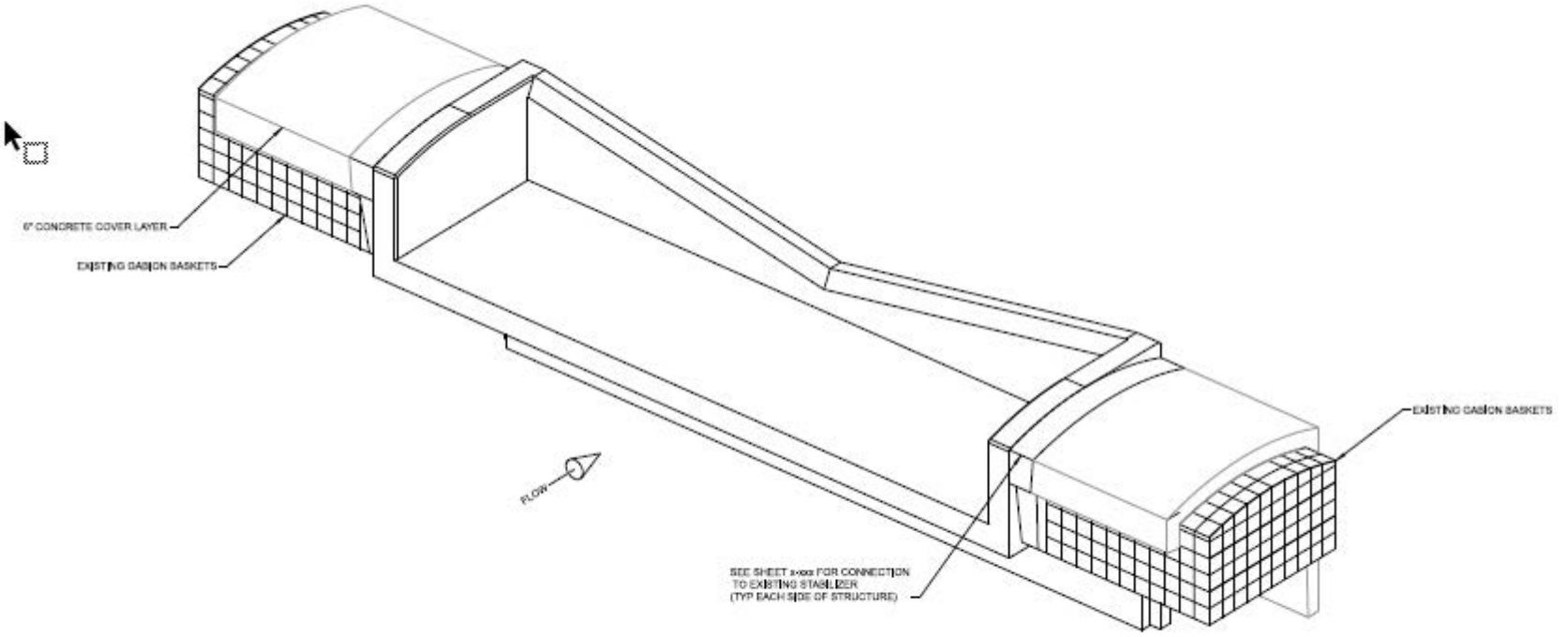
LOW FLOW CHANNEL NOTCHING PHASE 2

PLAN
WEIR MODIFICATIONS
WEIR 108 THROUGH WEIR 120

SHEET ID
C-105

INITIAL



H1 ISOMETRIC: STANDARD SINGLE WEIR STRUCTURE & STABILIZER

SCALE: NTS