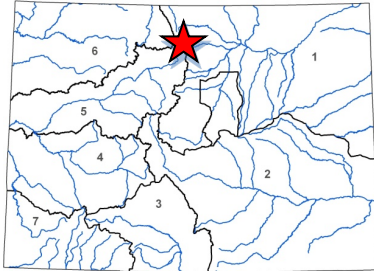




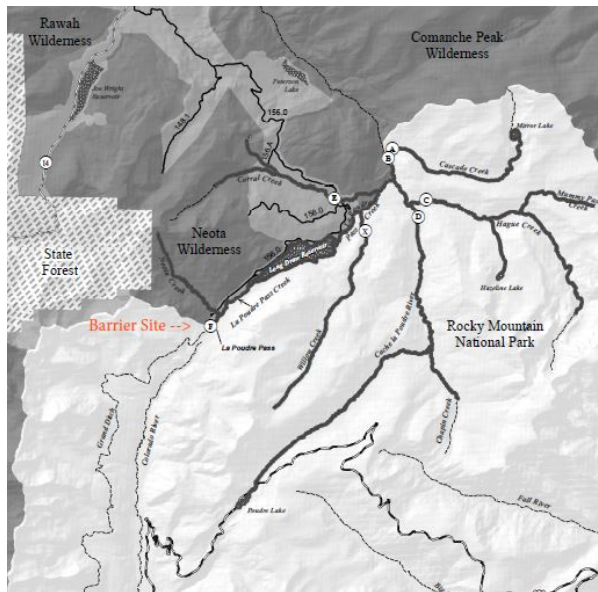
Water Plan Grant Application



L O C A T I O N	
County/Countries:	Larimer
Drainage Basin:	South Platte

D E T A I L S	
Total Project Cost:	\$628,616
Water Plan Grant Request:	\$299,853
Recommended amount:	\$299,853
Other CWCB Funding:	\$0
Other Funding Amount:	\$328,763
Applicant Match:	\$0
Project Type(s): Construction	
Project Category(Categories): Environment and Recreation	
Measurable Result: 5 miles of protected stream habitat; 104 acres of preserved habitat	

The Poudre Headwaters Restoration Project is the largest and most ambitious native trout restoration project in Colorado's history, and will provide a recovery stronghold for the federally-listed threatened Greenback cutthroat trout that can serve as a basis for ultimate delisting of the species. The decade-long project will reclaim approximately 38 miles of stream and 110 acres of lake habitat for the imperiled species across the headwaters of the Cache la Poudre River on the Arapaho National Forest and Rocky Mountain National Park.



The first construction phase of the project is installation of a fish barrier on the Grand Ditch outlet into the Poudre system at La Poudre Pass and will isolate the Greenback restoration habitat from western slope habitats intercepted by the Grand Ditch, outside of the Greenback's native range. Once the barrier is installed and its effectiveness is confirmed, the first phase of non-native fish removal and native fish reintroduction can take place in the habitats from headwaters through Long Draw Dam; that collaborative effort with Colorado Parks and Wildlife will reclaim approximately 5 miles of stream and the 104 acres of Long Draw Reservoir as Greenback cutthroat trout habitat. CWCB funds will support construction of the Grand Ditch barrier as the necessary precursor to those other activities.

The Forest Service has completed barrier design, NEPA compliance, and secured the required 404 permits for this project. The project is 'shovel ready' and will be bid immediately upon approval.



Last Updated: May 2021

Colorado Water Conservation Board

Water Plan Grant Application

Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as “project”) funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

Water Storage & Supply Projects	Matthew.Stearns@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Ben.Wade@state.co.us
Agricultural Projects	Alexander.Funk@state.co.us
Water Sharing & ATM Projects	Alexander.Funk@state.co.us
Environmental & Recreation Projects	Chris.Sturm@state.co.us

FINAL SUBMISSION: Submit all application materials in one email to

waterplan.grants@state.co.us

in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.

Water Project Summary

Name of Applicant	Colorado Trout Unlimited
Name of Water Project	Poudre Headwaters Restoration – Grand Ditch Barrier
CWP Grant Request Amount	\$299,853
Long Draw Mitigation Trust	\$304,013
USDA Forest Service (in-kind)	\$24,750
Other Funding Sources	\$
Applicant Funding Contribution	\$
Total Project Cost	\$628,616



Last Updated: May 2021

Applicant & Grantee Information	
Name of Grantee(s)	Colorado Trout Unlimited
Mailing Address	1536 Wynkoop Street, Suite 320, Denver, CO 80202
FEIN	84-0628113
Organization Contact	David Nickum
Position/Title	Executive Director
Email	david.nickum@tu.org
Phone	303-440-2937 x1
Grant Management Contact	David Nickum
Position/Title	Executive Director
Email	david.nickum@tu.org
Phone	303-440-2937 x1
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	
Description of Grantee/Applicant	
Provide a brief description of the grantee's organization (100 words or less).	
<p>Colorado Trout Unlimited (CTU) is the grassroots state-based arm of the nonprofit organization Trout Unlimited, with 12,000 members in 24 chapters across Colorado. CTU advances its mission to conserve, protect and restore coldwater fisheries and their watersheds through collaborative on-the-ground projects, education, and advocacy. CTU members and staff are active in watershed coalitions and basin roundtables throughout the state, working to advance Colorado Water Plan goals for healthy rivers. Focus areas for CTU projects include stream management planning, native species recovery efforts, and aquatic and riparian habitat improvement.</p>	



Last Updated: May 2021

Type of Eligible Entity (check one)	
	Public (Government): Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient.
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	Private Incorporated: Mutual ditch companies, homeowners associations, corporations.
	Private Individuals, Partnerships, and Sole Proprietors: Private parties may be eligible for funding.
X	Non-governmental organizations (NGO): Organization that is not part of the government and is non-profit in nature.
	Covered Entity: As defined in Section 37-60-126 Colorado Revised Statutes .

Type of Water Project (check all that apply)	
	Study
X	Construction
	Other

Category of Water Project (check the primary category that applies and include relevant tasks)		
	Water Storage & Supply - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity, multi-beneficial projects, water sharing agreements, Alternative Transfer Methods, and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i> Note: For Water Sharing Agreements or ATM Projects - please include the supplemental application available on the CWCB's website.	
	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, water efficiency, and drought planning. <i>Applicable Exhibit A Task(s):</i>	
	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. <i>Applicable Exhibit A Task(s):</i>	
	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>	
X	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i> Construction of fish barrier & associated channel reconstruction, Program Management and Administration	
	Other	Explain:



Last Updated: May 2021

Location of Water Project

Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable.

County/Counties	Larimer
Latitude	40.477275
Longitude	-105.822275

Water Project Overview

Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.

The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.

Funding from the CWCB would support construction of a fish barrier at the outlet of the Grand Ditch as it delivers water into La Poudre Pass Creek. The barrier will be the first construction phase in the multi-year Poudre Headwaters Restoration Project, to restore a metapopulation of the federally listed Greenback cutthroat trout. The full project will provide connected habitat to over 38 miles of stream and more than 110 acres of lakes and reservoirs, supporting a large and resilient native trout population that addresses species recovery goals and will help enable delisting of the species under the Endangered Species Act. The Grand Ditch barrier will isolate the recovery area from west slope waters intercepted by the Grand Ditch. Once completed, the barrier combined with the existing Long Draw Dam will secure approximately 5 miles of recovery habitat and 104 acres of reservoir for the first phase of native trout restoration.

The Forest Service has completed barrier design, NEPA compliance, and secured the required 404 permits for this project. The project is 'shovel ready' and will be bid imminently (prior to CWCB's grant decision) in order to pursue target construction dates for late end of summer/early autumn 2021.



Last Updated: May 2021

Measurable Results		
To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable:		
	New Storage Created (acre-feet)	
	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
	Existing Storage Preserved or Enhanced (acre-feet)	
5 miles secured in this phase; 38 miles in total project	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
104 acres secured in this phase; ~115 acres secured in total project	Area of Restored or Preserved Habitat (acres)	
	Quantity of Water Shared through Alternative Transfer Mechanisms or water sharing agreement	
	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
	Number of Coloradans Impacted by Engagement Activity	
1 recovery population – threatened species	Other	Explain: Once in place, the project, combined with existing Long Draw Dam, will allow for removal of nonnative fish and restoration of Greenback cutthroat trout as a first recovery population in the Long Draw area, which will ultimately be linked with other populations in a connected metapopulation across the Cache la Poudre headwaters.

Water Project Justification
Provide a description of how this water project supports the goals of Colorado's Water Plan , the Analysis and Technical Update to the Water Plan , and the applicable Roundtable Basin Implementation Plan and Education Action Plan . The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).
The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;)



Last Updated: May 2021

The Greenback cutthroat trout, Colorado's state fish, is a federally-listed threatened species and in current condition could be at risk to be moved to endangered status. The Poudre Headwaters Restoration Project is a major step in recovering the species and ensuring its future resiliency, thereby reducing the risk of uplisting and ultimately providing a basis for delisting of the species. In addition to its necessary contribution to the long-term project results, the first phase Grand Ditch barrier will secure habitat allowing reclamation and restoration of the initially reintroduced population within the larger metapopulation project. Both short- and long- term, the project contributes to the Colorado Water Plan Critical Watershed Health, Environment, and Recreation Action #1:

"Continue to support and participate in collaborative approaches to prevent listing under the Endangered Species Act. Promote the sustainability of endangered, threatened, and imperiled aquatic- and riparian-dependent species and communities (e.g., recovery programs, cooperative agreements, and other efforts) by developing a plan that compiles and develops near-term projects and methods. At the same time, the CWCB will support the strategic implementation of currently identified projects with technical and financial assistance."

Restoration at larger scale, as proposed with the Poudre Headwaters Restoration Project, has been identified by conservation biologists as a key strategy in providing resiliency for long-term species conservation including in the face of increased disruption from climate change. Indeed, the historic Cameron and East Troublesome fires – which burned portions of the Poudre headwaters – highlight the value of broader restoration efforts. While some subwatersheds were significantly impacted, others were not – suggesting that they would provide refugia for aquatic life. Securing a species across that larger range and with connectivity available allows for recolonization from those undisturbed patches of habitat following disruptions such as wildfire or flood. This approach advances the Colorado Water Plan Additional Critical Action #2:

"Evaluate and incorporate appropriate adaptation for the potential effects of climate change on municipal, industrial, environmental, and agricultural projects and methods that address the water supply gaps."

The Poudre Headwaters Restoration project also aligns well with Colorado's Water Values. The project reflects a commitment to collaboration, involving state, federal and private partners in implementation of the restoration program and serving as a collaborative approach to meeting mitigation requirements under permitting for the Long Draw Reservoir. The project addresses a proposed new focus area being integrated in the update of the South Platte/Metro Basin Implementation Plan. It demonstrates sustainability by applying conservation biology principles to recovery of a currently threatened species. Finally, it is fiscally and technically feasible, benefiting from a substantial seed money source of matching funds in the Long Draw Mitigation Trust established by the Water Supply and Storage Company and holding more than \$1 million toward project implementation over the next ten years. The Trust will provide matching funds for this CWCB grant.



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Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

None applicable.

Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

Colorado Trout Unlimited, Species Trust Big Barnes Fish Passage Design, 1/8/16, Purchase order # PO PDAA 20160000000000006486

Colorado Trout Unlimited, South Boulder Creek Stream Management Plan – Phase I, Metro and South Platte Roundtables, 1/21/19, Purchase Order: POGG1,PDAA,201900002848, CWCB funded 60% of overall project

Colorado Trout Unlimited, South Boulder Creek Stream Management Plan – Phase II, Metro and South Platte Roundtables, 7/15/20, Purchase Order: POGG1,PDAA,202100000046, CWCB funding 75% of overall project

Colorado Trout Unlimited, South Boulder Creek Stream Management Plan – Phase II Analysis, Metro and South Platte Roundtables, 7/15/20, Purchase Order: POGG1,PDAA,202100000050, CWCB funding 75% of overall project

Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

None applicable.



Last Updated: May 2021

Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract .
X	Statement of Work ⁽¹⁾
X	Budget & Schedule ⁽¹⁾
X	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
X	Map (if applicable) ⁽¹⁾
X	Photos/Drawings/Reports
	Letters of Support (Optional)
	Certificate of Insurance (General, Auto, & Workers' Comp.) ⁽²⁾
X	Certificate of Good Standing with Colorado Secretary of State ⁽²⁾
X	W-9 ⁽²⁾
	Independent Contractor Form ⁽²⁾ (If applicant is individual, not company/organization)
Water Sharing Agreements and Alternative Transfer Methods ONLY	
	Water Sharing Agreements and Alternative Transfer Methods Supplemental Application ⁽¹⁾

(1) Required with application.

(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.



Last Updated: May 2021

Colorado Water Conservation Board
Water Plan Grant - Exhibit A

Statement Of Work	
Date:	07/01/2021
Name of Grantee:	Colorado Trout Unlimited
Name of Water Project:	Poudre Headwaters Restoration – Grand Ditch Barrier
Funding Source:	Colorado Water Plan Grant
Water Project Overview:	
<p>The Poudre Headwaters Restoration Project is the largest and most ambitious native trout restoration project in Colorado’s history, and will provide a recovery stronghold for the federally-listed threatened Greenback cutthroat trout that can serve as a basis for ultimate delisting of the species. The decade-long project will reclaim approximately 38 miles of stream and 110 acres of lake habitat for the imperiled species across the headwaters of the Cache la Poudre River on the Arapaho National Forest and Rocky Mountain National Park.</p> <p>The first construction phase of the project is installation of a fish barrier on the Grand Ditch outlet into the Poudre system at La Poudre Pass and will isolate the Greenback restoration habitat from western slope habitats intercepted by the Grand Ditch, outside of the Greenback’s native range. Once the barrier is installed and its effectiveness is confirmed, the first phase of non-native fish removal and native fish reintroduction can take place in the habitats from headwaters through Long Draw Dam; that collaborative effort with Colorado Parks and Wildlife will reclaim approximately 5 miles of stream and the 104 acres of Long Draw Reservoir as Greenback cutthroat trout habitat. CWCB funds will support construction of the Grand Ditch barrier as the necessary precursor to those other activities.</p>	
Project Objectives:	
<p>Objective 1: Isolate Greenback restoration habitat from west slope systems through an effective fish barrier on the Grand Ditch immediately below the Continental Divide at La Poudre Pass. Ensure installation fully supports continued historic operations of the Grand Ditch for delivery of water rights held by the Water Supply and Storage Company.</p>	



Last Updated: May 2021

Tasks	
Task 1 – Construction of fish barrier & associated channel reconstruction	
Description of Task:	<p>Installation of the fish barrier will include excavation of the channel to the new cross section as required to provide the necessary drop to prevent fish movement; placement of a concrete splash pad, retaining walls and cutoff walls; backfill around the concrete structure; and riprap placement for the apron and along the toe of channel slopes.</p>
Method/Procedure:	<ul style="list-style-type: none">• Excavation of the channel to the new cross section;• Placement of riprap along toe of channel slopes;• Construction of a concrete splash pad and flared transition to flume with concrete retaining and cutoff walls;• Backfill around concrete structure;• Placement of riprap apron;• Removal off-site or stockpiling and shaping on-site of excavation spoils;• Mitigation measures for the work including erosion control, dewatering with flow bypass, topsoil stripping and replacement, post construction placement of fiber rolls and seeding with hydro mulching. <p>A full statement of work being used in the RFP for construction is included with this application (“Section C – Statement of Work”), along with a copy of the design plans/specifications.</p>
Deliverable:	<p>Barrier and modified channel constructed to specifications.</p>



Last Updated: May 2021

Tasks
Task 2 – Program Management and Administration
Description of Task: Overall management of the project, including contracting and management, budget tracking, periodic and final reporting.
Method/Procedure: <ul style="list-style-type: none">• Issue RFP and administer contract issuance (pre-CWCB award).• Manage and report on third party contracts for construction (CTU).• On-site supervision during construction (USFS):<ul style="list-style-type: none">○ Oversee construction to design specifications;○ Monitor to ensure mitigation measures are effectively applied.• Grant administration and reporting - progress and final reports (CTU).
Deliverable: Progress and final reports

Repeat for Task 3, Task 4, Task 5, etc.



Last Updated: May 2021

Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

Reporting Requirements

Progress Reports: The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.

Final Report: At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to as part of the project documentation.

Performance Measures

Performance measures for this contract shall include the following:

(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit C. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.



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Conservation Board**

Department of Natural Resources

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(c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.



COLORADO

Colorado Water
Conservation Board

Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit C Budget and Schedule

Prepared Date: June 25, 2021

Name of Applicant: Colorado Trout Unlimited

Name of Water Project: Poudre Headwaters Restoration - Grand Ditch Barrier

Project Start Date: July 2021 (exact date of mobilization TBD)

Project End Date: November 30, 2021

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
						\$0
						\$0
						\$0
						\$0
1	Barrier construction	8/15/2021	10/31/2021			\$0
2	Project management and administration	7/15/2021	11/30/2021			\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
						\$0
Total				\$0	\$0	\$0



Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate

Fair and Reasonable Estimate

Prepared Date:

25-Jun-21

Name of Applicant:

Colorado Trout Unlimited

Name of Water Project:

Poudre Headwaters Restoration - Grand Ditch Barrier

Construction

Task 1 - Construction

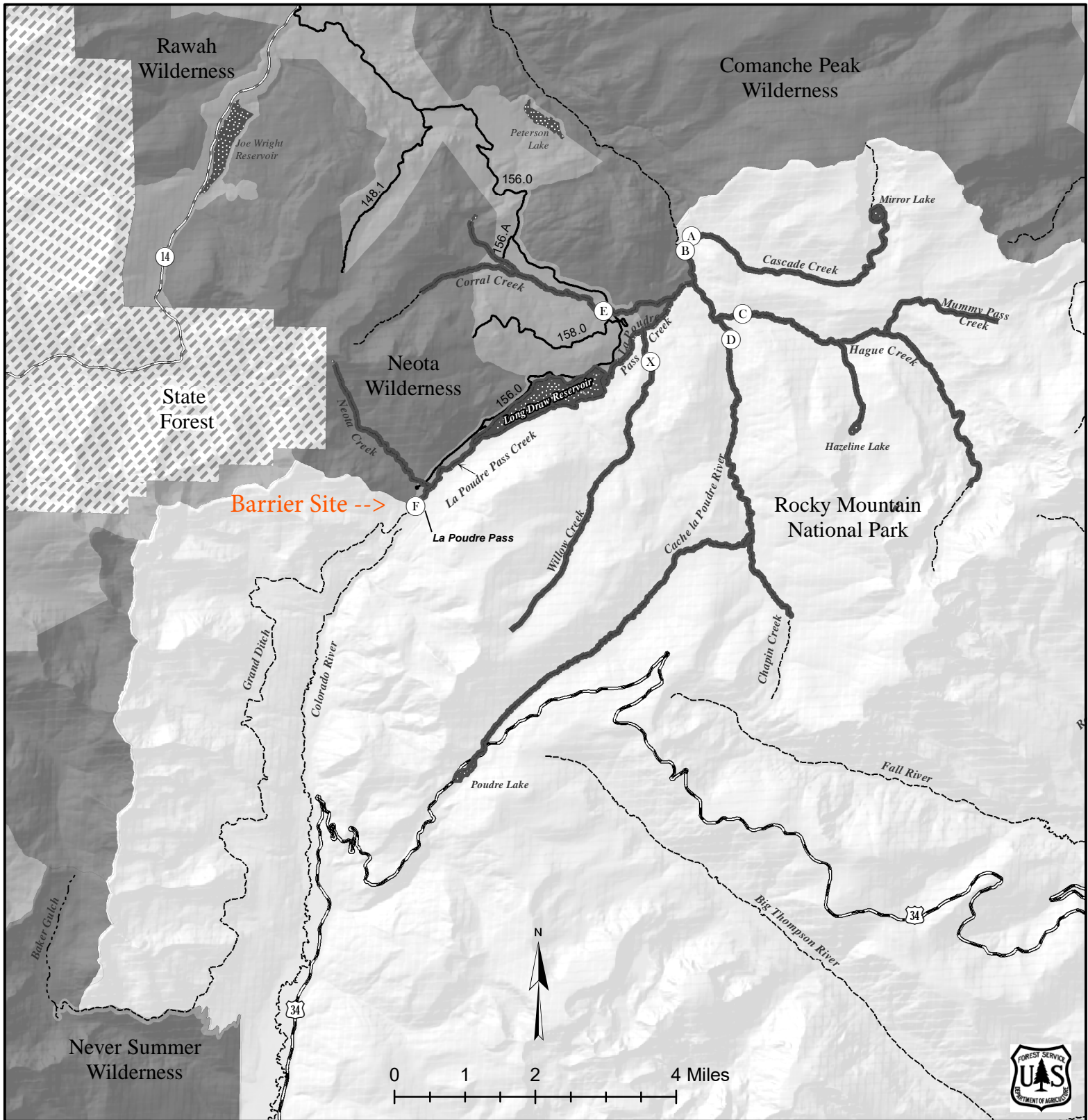
Sub-task	Unit	Quantity	Unit Cost	Total Cost	CWCB Funds	Matching Funds
Mobilization	LS	1	\$ 106,088	\$ 106,088	\$ -	\$ 106,088
Const. survey & staking	LS	1	\$ 17,987	\$ 17,987	\$ -	\$ 17,987
Clearing/grubbing/topsoil stripping	LS	1	\$ 11,334	\$ 11,334	\$ -	\$ 11,334
Erosion & Pollution Control, Dewatering	LS	1	\$ 43,120	\$ 43,120	\$ 25,872	\$ 17,248
Channel Excavation	CY	3,400	\$ 14	\$ 46,818	\$ -	\$ 46,818
Rock Excavation	CY	1,500	\$ 27	\$ 40,650	\$ -	\$ 40,650
Structure Excavation	CY	340	\$ 76	\$ 25,871	\$ 20,696	\$ 5,174
Embankment Construction, Compaction	CY	110	\$ 112	\$ 12,344	\$ 9,875	\$ 2,469
Structure Backfill	CY	140	\$ 129	\$ 18,110	\$ 14,488	\$ 3,622
Placed riprap Class 2	CY	480	\$ 71	\$ 34,248	\$ 27,398	\$ 6,850
Placed riprap, Class 3 (comm. source)	CY	100	\$ 197	\$ 19,712	\$ 15,770	\$ 3,942
Concrete retaining wall, splashpad	CY	110	\$ 1,568	\$ 172,480	\$ 146,608	\$ 25,872
Placed conserved topsoil	LS	1	\$ 3,351	\$ 3,351	\$ 2,681	\$ 670
Hydraulic seeding and erosion control	SY	1,700	\$ 4	\$ 6,783	\$ 5,426	\$ 1,357
Hauling of excavation spoils	CY	129,000	\$ 0	\$ 34,830	\$ 20,898	\$ 13,932
Task total				\$ 593,727	\$ 289,713	\$ 304,013

Task 2 - Project Management & Administration

Indirect costs - grant management	3.5% IC rate on grant	0	\$ 289,713	\$ 10,140	\$ 10,140	\$ -
USFS in-kind - project/contract administration				\$ 24,750		\$ 24,750

TOTAL	\$	628,616.80	\$	299,853	\$	328,763
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Alternative 3 - Greenback Recovery



Map Created October 8, 2008 by J.Naylor

Legend

- | | | | |
|-------------------------------|---|---|--------------------------------|
| — Proposed Recovery Areas | (A) Existing Natural Barrier | (E) Temporary Natural Barrier needing enhancement | ○ National Forest |
| - - - Baker Gulch | (B) Permanent Natural Barrier needing enhancement | (F) Permanent Constructed Barrier | ● Wilderness |
| ≡ US Highway | (C) Temporary Natural Barrier needing enhancement | (X) Barrier dropped between DEIS & FEIS | ○ Rocky Mountain National Park |
| ≡ State Highway | (D) Temporary Natural Barrier needing enhancement | | ○ Colorado State Forest |
| ≡ National Forest System Road | | | ● Lakes |
| ~ ~ ~ Streams | | | |

8/12/20 10:03 PFEISCHMANN C:\USERS\PFEISCHMANN\BOXIEP_ONESTOP\SHOP\IEP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUME\DESIGN\GRANDDITCHPLANS.DWG;



United States Department of Agriculture
Forest Service

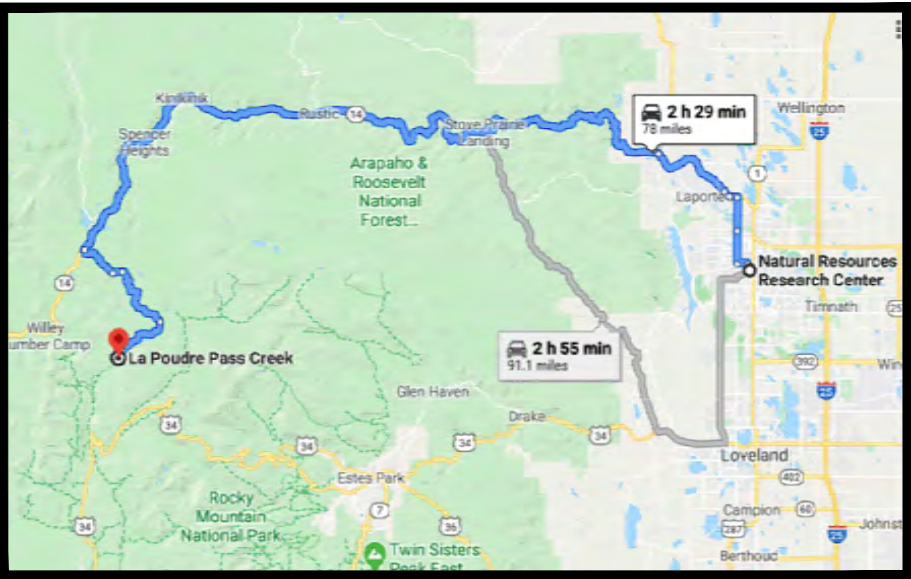
(R02) ROCKY MOUNTAIN REGION
ARAPAHO ROOSEVELT NATIONAL FORESTS
AND PAWNEE NATIONAL GRASSLAND

LARIMER COUNTY
COLORADO

GRAND DITCH FISH BARRIER



PROJECT LOCATION



VICINITY MAP

TRAVEL DIRECTIONS:
CANYON LAKES RANGER DISTRICT 2150 CENTRE AVE., BLDG. E, FORT COLLINS, CO 80526
TAKE S SHIELDS ST TO US-287 N 14 MIN (5.5 MI). TURN LEFT ONTO CO-14 W 53.2 MI. DRIVE TO LONG DRAW RD 53 MIN (13.2 MI). TURN LEFT ONTO LONG DRAW RD 2.9 MI. CONTINUE ONTO PETERSON LAKE RD 0.6 MI. TURN RIGHT ONTO LONG DRAW RD 5.2 MI. TURN RIGHT TO STAY ON LONG DRAW RD 4.3 MI. TURN LEFT TO STAY ON LONG DRAW RD. DESTINATION WILL BE ON THE LEFT. LA POUDE PASS CREEK.
THESE DIRECTIONS ARE FOR PLANNING PURPOSES ONLY. YOU MAY FIND THAT CONSTRUCTION PROJECTS, TRAFFIC, WEATHER, OR OTHER EVENTS MAY CAUSE CONDITIONS TO DIFFER FROM THE MAP RESULTS, AND YOU SHOULD PLAN YOUR ROUTE ACCORDINGLY. YOU MUST OBEY ALL SIGNS OR NOTICES REGARDING YOUR ROUTE.

INDEX OF SHEETS	
SHEET	SHEET TITLE
G0-01	COVER SHEET
G0-02	VICINITY MAP
G0-03	SCHEDULE OF ITEMS
G0-04	GENERAL NOTES
C1-01	EXISTING SITE PLAN
C1-02	SITE PLAN OVERVIEW
C1-03	ALIGNMENT AND TEST PIT DATA
C1-04	SITE PLAN STA 0+00 TO STA 2+75
C1-05	SITE PLAN STA 2+75 TO STA 5+50
C1-06	SITE PLAN STA 5+50 TO STA 6+61
C2-01	CENTERLINE PROFILE
C3-01	TYPICAL CHANNEL CROSS SECTIONS
C3-02	CHANNEL CROSS SECTIONS STA 0+50 THRU 1+50
C3-03	CHANNEL CROSS SECTIONS STA 2+00 THRU 3+00
C3-04	CHANNEL CROSS SECTIONS STA 3+50 THRU 4+50
C3-05	CHANNEL CROSS SECTIONS STA 5+00 THRU 5+50
C3-06	CHANNEL CROSS SECTIONS STA 5+80 THRU 6+00
C3-07	CHANNEL CROSS SECTIONS STA 6+30 THRU 6+50
C4-01	SPLASH PAD SECTIONS
C4-02	SPLASH PAD SECTION AND ELEVATION
C5-01	SPLASH PAD WALL SECTION
C5-02	SPLASH PAD WALL DETAILS
C5-03	SPLASH PAD DETAILS

APPROVED:

RECOMMENDED BY:

FOREST ENGINEER

DATE

DISTRICT RANGER

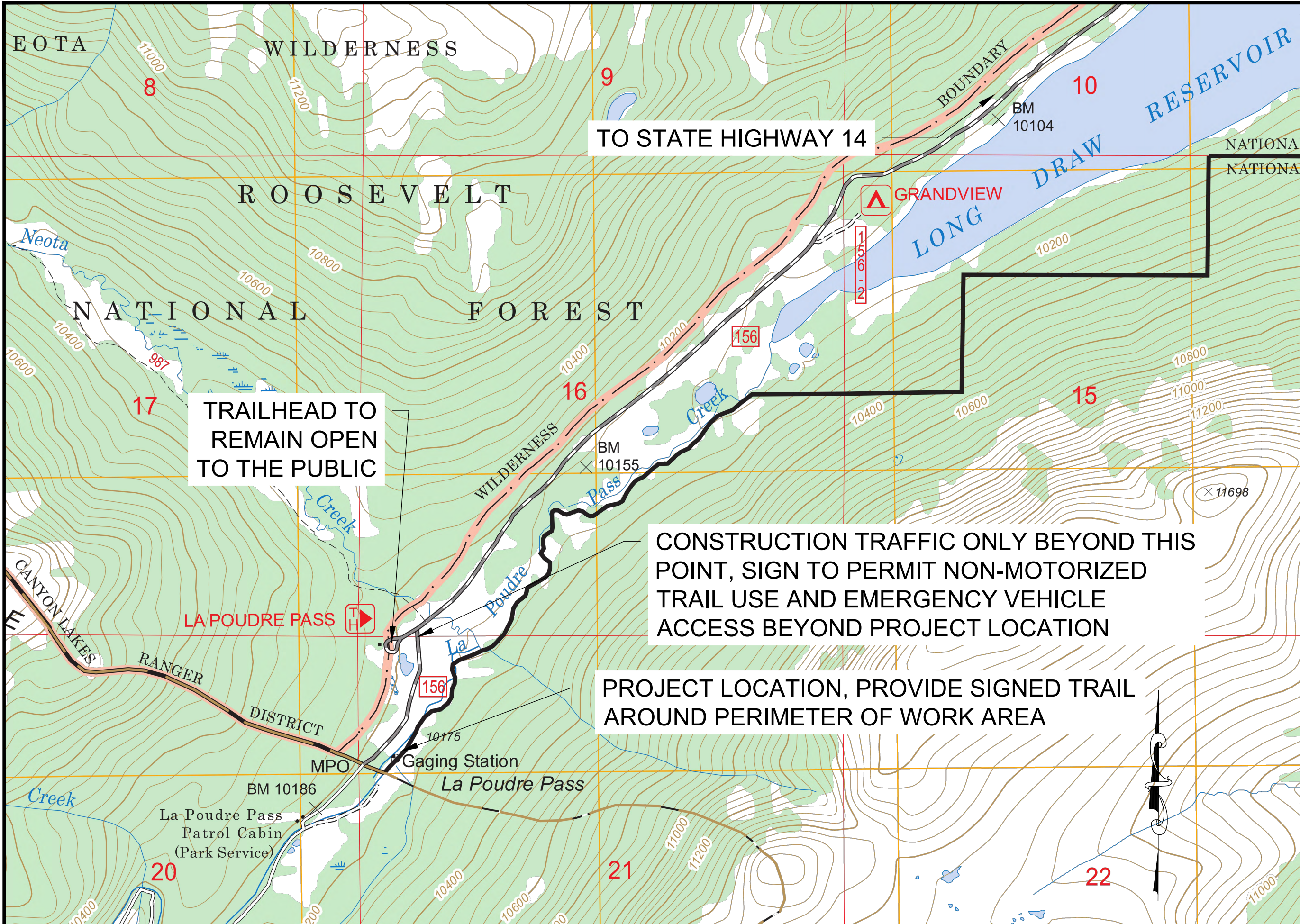
DATE


FOREST SUPERVISOR

DATE

DIRECTOR OF ENGINEERING





DATE





United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
		
		
		
		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

VICINITY MAP

DATE 01/22/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. G0-02
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 02 OF 23

2/23/21 10:31 P\FLEISCHMANN\BOX\EP_ONESTOPSHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\LUME\DESIGN\GRANDDITCH\PLANS.DWG.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
15101	MOBILIZATION	LS	ALL	INCLUDES WEED MITIGATION CLEANING OF EQUIPMENT
15201	CONSTRUCTION SURVEY AND STAKING, METHOD 1, TOLERANCE A	LS	ALL	INCLUDES ALL PHASES OF SURVEYING TO CONSTRUCT PROJECT AND DELINEATING AVOIDANCE, STAGING AND STOCKPILE AREAS.
15713	SOIL EROSION AND POLLUTION CONTROL AND DEWATERING	LS	ALL	INCLUDES ALL LABOR AND MATERIALS REQUIRED FOR DURATION OF PROJECT
20101	CLEARING, GRUBBING AND TOPSOIL STRIPPING	LS	ALL	INCLUDES MARKING OF CLEARING LIMITS, SALVAGE AND STOCKPILING OF TOPSOIL, HARVEST OF WILLOW SHOOTS, AND CHIPPING OF WOODY DEBRIS
20405	CHANNEL EXCAVATION, TOLERANCE CLASS C	CY	3400	EXCAVATION OF THE CHANNEL TO THE LIMITS SHOWN, INCLUDING OVEREXCAVATION FOR PLACEMENT OF RIPRAP
20411	ROCK EXCAVATION	CY	1500	EXCAVATION OF THE CHANNEL AND FOR THE STRUCTURE BY CONTRACTOR SELECTED MEANS WHEN LARGE BOULDERS (OVER 2 CY) OR BEDROCK IS ENCOUNTERED
20417	EMBANKMENT CONSTRUCTION, COMPACTION METHOD 2	CY*	110	PLACEMENT OF EXCAVATION SPOILS ABOVE STRUCTURAL BACKFILL TO COMPLETE SLOPE CONSTRUCTION BEHIND RETAINING WALLS
20901	STRUCTURE EXCAVATION	CY	340	EXCAVATION FOR PLACEMENT OF THE CONCRETE SPLASH PAD AND RETAINING WALLS
20903	STRUCTURAL BACKFILL	CY*	140	PLACEMENT OF STRUCTURAL BACKFILL PER SECTION 258, EXCAVATION SPOILS MAY BE USED IF THEY MEET ALL SPECS FOR MATERIAL
25101	PLACED RIPRAP, CLASS 2 (SITE GENERATED)	CY*	480	INCLUDES SORTING, STOCKPILING AND PLACING RIPRAP GENERATED FROM EXCAVATION SPOILS MEETING SPECIFICATIONS FOR CLASS 2.
25102	PLACED RIPRAP, CLASS 3 (SITE GENERATED)	CY*	100	INCLUDES SORTING, STOCKPILING AND PLACING RIPRAP GENERATED FROM EXCAVATION SPOILS MEETING SPECIFICATIONS FOR CLASS 3.
25803	REINFORCED CONCRETE RETAINING WALL AND SPLASH PAD	CY*	110	INCLUDES FURNISHING ALL LABOR, CONCRETE, REINFORCING, FORMING AND FINISHING MATERIALS AND EQUIPMENT
62404	PLACING CONSERVED TOPSOIL, UNIFORM DEPTH	LS	ALL	INCLUDES LABOR AND EQUIPMENT TO PLACE SALVAGED TOPSOIL OVER ALL DISTURBED SLOPES FLATTER THAN 2H:1V, EXCLUDING CHANNEL BOTTOM
62501	HYDRAULIC SEEDING AND EROSION CONTROL	SY*	1700	SEED WILL BE GOVERNMENT FURNISHED, INCLUDES PLACEMENT OF FIBER ROLLS ON SLOPES
OPTION 1				
1	HAULING OF EXCAVATION SPOILS	CY-MI	129000	EQUIPMENT AND LABOR TO MOVE AND PLACE EXCESS SPOILS IN AN OFFSITE LOCATION WITHIN 30 MILES OF THE SITE. SHAPING OF THE DISPOSED MATERIALS WILL BE REQUIRED TO LEAVE IN A UNIFORM APPEARANCE FITTING THE SITE AS DIRECTED BY THE CO. EITHER OPTION 1 OR 2 WILL BE AWARDED
OPTION 2				
2	STOCKPILE EXCAVATION SPOILS	CY	4300	EQUIPMENT AND LABOR TO STOCKPILE EXCAVATION SPOILS IN AREA IDENTIFIED ON PLANS. SHAPING OF THE DISPOSED MATERIALS WILL BE REQUIRED TO LEAVE IN A UNIFORM APPEARANCE FITTING THE SITE AS DIRECTED BY THE CO. EITHER OPTION 1 OR 2 WILL BE AWARDED
OPTION 3				
25103	PLACED RIPRAP, CLASS 3 (COMMERCIAL SOURCE)	CY	100	FURNISH AND PLACE RIPRAP AS INDICATED ON PLANS. OPTION WILL ONLY BE EXECUTED IF SUFFICIENT MATERIAL CANNOT BE SITE GENERATED. SUPPLIED MATERIAL TO MATCH COLOR, TEXTURE AND APPEARANCE OF ON-SITE MATERIAL.

- ALL UNITS WILL BE MEASURED AS ACTUAL QUANTITY, UNLESS DENOTED BY AN ASTERISK (*), AND PAID ACCORDING TO FAR CLAUSE 52.211-18, VARIATION IN ESTIMATED QUANTITY. IF DENOTED BY AN ASTERISK, THE QUANTITY IS MEASURED AS CONTRACT QUANTITY. DEFINITIONS OF UNITS OF MEASURE CAN BE FOUND IN FP-14 SECTION 109.
- ALL ITEMS INCLUDE ASSOCIATED LABOR, MATERIALS, EQUIPMENT, OVERHEAD AND PROFIT TO COMPLETE THE WORK IDENTIFIED.



STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE	
SCHEDULE OF ITEMS	

DATE 02/23/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO.
DRAWN P.FLEISCHMANN	G0-03
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 03 OF 23

GENERAL NOTES:

SPECIFICATION:

MATERIALS AND CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-14) AND CONTRACT SUPPLEMENTAL SPECIFICATIONS. REFER TO SECTION H OF THE CONTRACT FOR ORDER OF PRECEDENT OF DOCUMENTS AND FURTHER DIRECTION.

MATERIALS:

1. CONCRETE: REINFORCED CONCRETE SHALL BE CLASS A(AE) WITH A 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI WITH AN ENTRAINED AIR CONTENT OF 4.0% TO 7.0% AND MAXIMUM AGGREGATE SIZE OF 1 ½". ALL CONCRETE TO BE MADE IN ACCORDANCE WITH AN APPROVED MIX DESIGN. ALL EXPOSED CAST-IN-PLACE CONCRETE SHALL BE GIVEN A CLASS 2 "RUBBED FINISH". ALL FORMED SURFACES TO BE BACKFILLED SHALL BE GIVEN A CLASS 1 "ORDINARY FINISH". FLOOR OF SPLASH PAD SHALL RECEIVE A BROOM FINISH. CHAMFER ALL EXPOSED EDGES AND FILLET RE-ENTRANT CORNERS ¾" (UNLESS NOTED OTHERWISE). REFER TO SECTION 552 OF FP-14
2. REINFORCING STEEL: EPOXY COATED, DEFORMED TYPE CONFORMING TO AASHTO M31 (ASTM A615) GRADE 60 AND ASTM A775. TWO INCH CONCRETE COVER TYPICAL, 3 INCH WHEN CAST DIRECTLY AGAINST EARTH, EXCEPT AS NOTED. CUTTING AND BENDING SHALL CONFORM TO ACI 315. REFER TO SECTION 554 OF FP-14.
3. RIP-RAP: CLASS SHALL BE AS STATED ON THE PLANS AND DETAILS. PLACEMENT SHALL BE PER SECTION 251.04 OF FP-14. NO RIP-RAP SHALL BE PLACED UPHILL OF THE CUT CATCH LINE. EXCAVATION SPOILS SHALL BE UTILIZED AS RIP-RAP WHEN IN COMPLIANCE WITH FP-14 SECTION 705.02, INCLUDING DESIGNATED GRADATION. SITE GENERATED ROCK THAT IS SUB-ANGULAR IS ACCEPTABLE, EFFORT SHALL BE MADE TO MIX THE ANGULAR AND SUB-ANGULAR ROCK PRIOR TO PLACEMENT. IMPORTED RIP-RAP, IF REQUIRED, SHALL HAVE THE SAME COLOR AND TEXTURAL APPEARANCE AS THE ROCK FOUND ON-SITE.

FOUNDATION NOTES:

CONCRETE FOUNDATION SHALL BE PLACED ON SUITABLE IN SITU MATERIAL THAT HAS BEEN SCARIFIED TO A DEPTH OF 6" AND COMPACTED PER SECTION 208.10. UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF 18" BELOW FOOTING AND BACKFILLED WITH STRUCTURAL BACKFILL MATERIAL PER SECTION 208.09. IF BEDROCK IS ENCOUNTERED AT BEARING DEPTH, REMOVE LOOSE PIECES AND SWEEP CLEAN. THICKEN FOOTING BELOW BOTTOM REINFORCEMENT TO MEET BEDROCK AS NECESSARY.

SITE CONDITIONS:

1. OBSERVED SOILS AT THE SITE ARE GW-GC (GRAVELS WITH SAND AND CLAY) USING UNIFIED SOIL CLASSIFICATION. META-IGNEOUS ROCK, SUCH AS WEATHERED GRANITE OR GNEISS, WAS OBSERVED ON THE SURFACE AND IN TEST PITS TO 5 FT DEPTHS. ROCK OBSERVED MAY BE BEDROCK OR LARGE BOULDER.
2. IMPACT HAMMER OR BLASTING MAY BE REQUIRED TO COMPLETE EXCAVATION. A BLASTING PLAN SHALL BE SUBMITTED TO THE CONTRACTING OFFICER (CO) IN COMPLIANCE WITH SECTION 205 OF FP-14 AND APPROVED PRIOR TO BEGINNING BLASTING OPERATIONS.
3. ALL TOPSOIL ENCOUNTERED WITHIN EXCAVATION AND FILL AREAS SHALL BE STRIPPED AND STOCKPILED IN APPROVED LOCATIONS FOR USE IN REHAB POST CONSTRUCTION.

DEWATERING AND SOIL EROSION CONTROL:

1. PROTECT AGAINST SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION IN ACCORDANCE WITH FP-14 SECTION 157 AND PROJECT PERMITS. SUBMIT PLAN TO CO FOR APPROVAL.
2. DEWATER THE EXCAVATION IN ACCORDANCE WITH SECTION 157 AND 208. THE FLUME WILL BE CONVEYING WATER UNTIL EARLY SEPTEMBER. FLOW VOLUMES AND EXACT CUT-OFF DATE WILL BE SHARED PRIOR TO CONTRACT START DATE. CONTRACTOR SHALL ALSO ANTICIPATE SURFACE OR GROUND WATER INFILTRATING THE EXCAVATIONS. ALL WORK SHALL BE COMPLETED PER THE CONTRACT SPECIFICATIONS, STANDING OR RUNNING WATER IN THE WORK AREA DOES NOT RELIEVE THE CONTRACTOR FROM MEETING THE SPECIFICATIONS.





CONSTRUCTION NOTES:

1. WATER STORAGE AND SUPPLY (WSS) WILL BE REPLACING THE CONCRETE FLUME STRUCTURE WITHIN THE SAME TIME FRAME OF THIS PROJECT. ADDITIONAL STAGING AREAS FOR WSS WILL BE PROVIDED BY FOREST SERVICE PERMIT, THESE AREAS WILL BE KNOWN AND SHALL BE AVOIDED. COORDINATION WILL BE REQUIRED FOR SITE ACCESS, SIGNING, DEWATERING AND AT THE CONCRETE STRUCTURE TO FLUME INTERFACE. THE CO SHALL BE APPRISED OF ALL AGREEMENTS MADE BETWEEN THE CONTRACTOR AND WSS WITHIN 48 HOURS OR BEFORE THE WORK TAKES PLACE, WHICHEVER COMES FIRST.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FEDERAL, STATE AND LOCAL PERMITS REQUIRED TO COMPLETE THE WORK OF THIS CONTRACT, UNLESS OTHERWISE TOLD BY THE CO.
3. WATER FOR FIRE PREVENTION AND SUPPRESSION REQUIREMENTS UNDER THE CONTRACT, AS WELL AS FOR USE WITH CONSTRUCTION ACTIVITIES MAY BE OBTAINED FROM NEOTA CREEK WHERE IT PASSES UNDER LONG DRAW ROAD. ENSURE PROPER WATER DRAFTING PROTOCOLS ARE MET.
4. DESIGN DOES NOT INCLUDE EXCAVATION FOR EQUIPMENT ACCESS TO THE BOTTOM OF THE EXCAVATION AREAS. ALL EXCAVATION AND OTHER WORK FOR ACCESS IS INDIRECT TO THE ITEM.
5. FOREST SERVICE WILL PROVIDE AN ARCHAEOLOGICAL MONITOR, WHO SHALL BE PRESENT DURING ALL EXCAVATION ACTIVITIES. CONTRACTOR SHALL NOTIFY CO 48 HOURS IN ADVANCE OF INTENT TO EXCAVATE.
6. AVOIDANCE AREAS SHOWN ON THE PLANS AND IDENTIFIED IN THE FIELD BY THE ARCHAEOLOGICAL MONITOR WITHIN THE PROJECT LIMITS SHALL BE ENCIRCLED WITH ORANGE SAFETY FENCING. FENCING SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
7. CLEARING LIMITS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY FOREST SERVICE PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. REFER TO SECTION 201 OF THE SPECS. ALL EQUIPMENT AND CONTRACTOR ACTIVITIES SHALL BE CONFINED WITHIN THESE LIMITS.
8. CONTRACTOR ACTIVITIES SHALL BE CONFINED BELOW THE CUT CATCH LINE ALONG RIVER RIGHT BETWEEN STA 0+00 AND 4+50. CLEARING LIMITS FOR THIS AREA ARE 1 FOOT BEYOND THE CUT CATCH LINE TAPERING UP TO 10 FEET BETWEEN STA 4+50 AND 4+70.
9. THE WILDERNESS AREA OUTSIDE OF THE CLEARING LIMITS SHALL BE TREATED AS AN AVOIDANCE AREA BY THE CONTRACTOR. ORANGE SAFETY FENCING SHALL BE PLACED ALONG THE CLEARING LIMITS SHOWN ON THE PLANS FROM STA 0+00 TO 5+00.
10. MASTICATE ALL WOOD MATERIAL CLEARED FROM PROJECT SITE INTO MULCH AND INCORPORATE INTO STRIPPED TOPSOIL AT RATE NOT TO EXCEED 4 PARTS SOIL:1 PARTS WOODY MATERIAL. EXCESS MASTICATED MATERIAL SHALL BE SPREAD AS DIRECTED OVER STAGING AREA AT CONCLUSION OF PROJECT. WILLOWS SHALL BE SALVAGE FOR PLANTING POST CONSTRUCTION. FOREST SERVICE WILL MARK WILLOWS FOR SALVAGE AND IDENTIFY PLACEMENT LOCATIONS.
11. PLACE FIBER ROLLS ON ALL NEWLY CONSTRUCTED SLOPES STEEPER THAN 3H:1V AT SPACING OF 10' MAXIMUM MEASURED ALONG THE SLOPE.
12. HYDRAULIC SEEDING WITH AMENDMENT AND SEPARATELY APPLIED BONDED FIBER MATRIX PER SECTION 625 OF THE SPECS IS REQUIRED. APPLY TO ALL NEWLY CUT AND FILLED SLOPES AT THE CONCLUSION OF GROUND DISTURBING ACTIVITIES. FOREST SERVICE WILL PROVIDE SEED MIX TO THE CONTRACTOR.
13. CO APPROVAL IS REQUIRED PRIOR TO PLACEMENT OF THE FOLLOWING ITEMS: RIPRAP, CONCRETE FORMS, STRUCTURAL CONCRETE, SEEDING, AND STREAM FLOW THROUGH TEMPORARY BYPASS OR OVER NEWLY CONSTRUCTED STREAMBED.
14. REMOVE ALL CONSTRUCTION RELATED DEBRIS FROM FEDERAL LAND PRIOR TO FINAL ACCEPTANCE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ROADS AND FACILITIES THAT OCCURS AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES. REFER TO SECTION 104 OF THE SPECS.
16. STORING OF ALL EQUIPMENT AND MATERIALS ON FEDERAL LANDS WILL BE AT THE CONTRACTOR'S RISK AND AT A LOCATION APPROVED BY THE CO.
17. DISPOSAL OF EXCAVATION SPOILS SHALL BE IN AN AREA DESIGNATED BY THE CO WITHIN 30 MILES OF THE PROJECT. MATERIAL SHALL BE PLACED AND SHAPED IN DISPOSAL AREA AS APPROVED BY THE CO. WINDROWS AND DUMP PILES WILL NOT BE PERMITTED WITHOUT REWORKING TO CREATE SINGLE UNIFORM MASS. FINAL HEIGHT OF DEPOSITED MATERIAL WILL BE 4' OR LESS FROM EXISTING GROUND.
18. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 156 OF THE SPECS TO THE CO FOR APPROVAL. ACCESS FOR FLUME REPLACEMENT, EMERGENCY VEHICLES AND NEARBY RECREATIONAL ACCESS SHALL BE MAINTAINED.



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
		
		
		
		
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PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

GENERAL NOTES

DATE 02/23/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO.
DRAWN P.FLEISCHMANN	G0-04
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 04 OF 23

LEGEND

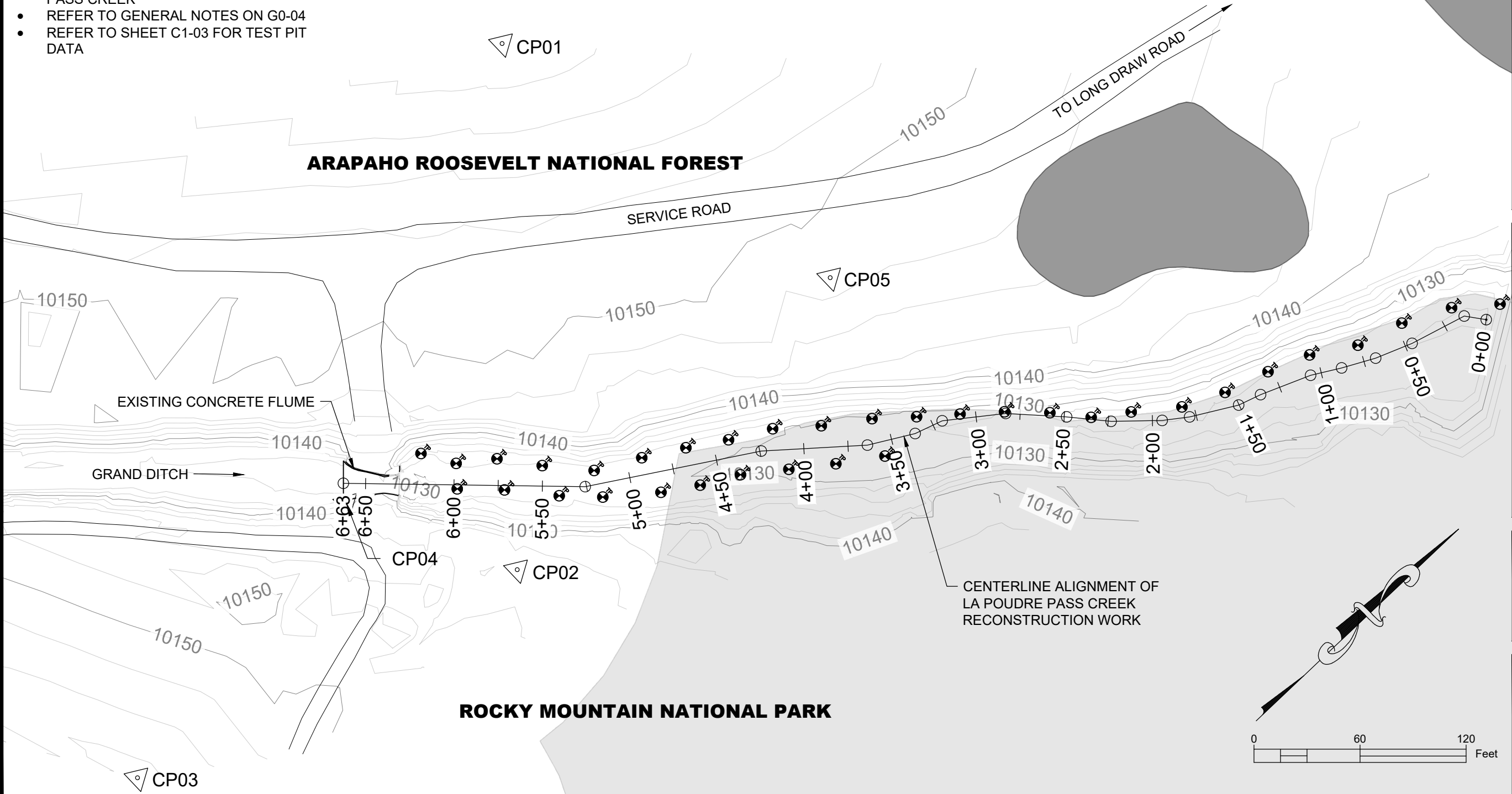
- WILDERNESS
- AVOIDANCE AREA
- TP


TEST PIT LOCATION

- NOTES:
- THE BOUNDARY BETWEEN NPS AND FS IS THE WEST BANK OF LA POUDRE PASS CREEK
 - REFER TO GENERAL NOTES ON G0-04
 - REFER TO SHEET C1-03 FOR TEST PIT DATA

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP01	1963471.55	2910255.57	10159.98	REBAR WITH TAG
CP02	1963272.31	2910476.73	10145.26	REBAR WITH TAG
CP03	1963035.66	2910413.61	10156.88	REBAR WITH TAG
CP04	1963228.29	2910382.85	10139.76	SHARPIE MARK ON CONCRETE
CP05	1963514.45	2910479.47	10149.0400	REBAR WITH TAG

SURVEY DATUM IS COLORADO STATE PLANE NAD83, CENTRAL ZONE, US FOOT





United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH FISH BARRIER

ARAPAHO ROOSEVELT NATIONAL FORESTS AND PAWNEE NATIONAL GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

EXISTING SITE PLAN

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-01
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 05 OF 23

LEGEND

- WILDERNESS
- AVOIDANCE AREA
- STOCKPILE & STAGING AREA
- RIPRAP
- CUT CATCH LINE
- NEW TOE OF SLOPE
- CLEARING LIMITS

- NOTES:
- THE BOUNDARY BETWEEN NPS AND FS IS THE WEST BANK OF LA POUDRE PASS CREEK
 - REFER TO GENERAL NOTES ON G0-04
 - SEE SHEET C1-03 FOR ALIGNMENT DATA
 - SEE SHEETS C1-04 THRU C1-06 FOR DETAILED PLAN INFORMATION
 - RIPRAP NOT SHOWN THIS SHEET



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

4		
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GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

SITE PLAN OVERVIEW

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-02
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 06 OF 23

8/13/20 11:23 PLEISCHMANN\BOXEP_ONESTOPSHOP\EP WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCHFLUME\DESIGN\GRANDDITCHPLANS.DWG


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Test Pits			
Station	Offset	Ground Elevation	Depth to Refusal
0+17.16	8.89' R	10124.77	4.5'
0+47.49	14.14' R	10125.05	4'
0+76.43	11.12' R	10125.43	5'
1+04.82	12.60' R	10125.67	3'
1+28.49	11.94' R	10126.13	2'
1+56.81	10.05' R	10126.39	3'
1+83.25	7.38' R	10126.67	3'
2+12.89	6.18' R	10127.93	0'
2+35.92	2.10' R	10126.97	1'
2+59.30	2.84' R	10128.54	0'
2+84.58	2.21' R	10127.87	1.5'
3+09.74	3.80' R	10129.05	0.5'
3+31.88	9.64' R	10128.88	2.5'
3+56.57	7.09' L	10129.18	5'
3+58.71	15.21' R	10129.94	3.5'
3+83.36	8.42' L	10129.55	4'
3+90.40	13.51' R	10129.99	5'
4+10.09	10.09' L	10129.61	3.5'
4+17.97	13.33' R	10131.09	0.5'
4+39.09	9.57' L	10129.93	3.5'
4+41.80	11.14' R	10130.89	0'
4+62.63	10.83' L	10130.41	4'
4+66.33	11.53' R	10131.62	0'
4+85.15	10.41' L	10130.57	4'
4+91.94	10.91' R	10131.70	3'
5+17.95	6.51' L	10131.43	1.5'
5+19.76	9.20' R	10131.83	3.5'
5+41.41	4.32' L	10131.47	3'
5+51.25	12.62' R	10131.96	4'
5+72.39	1.46' L	10131.54	2'
5+76.90	16.11' R	10133.26	2.5'
5+99.13	1.21' L	10131.23	2'
5+99.97	13.17' R	10132.30	2.5'

NOTE: OFFSET IS BASED UPON LOOKING FROM STATION 0+00 UPSTREAM. THIS IS OPPOSITE THE BANK DESIGNATIONS. DEPTH TO REFUSAL MAY HAVE CHANGED SINCE TESTED DUE TO IMPACTS OF CHANNEL FLOW.

Line Table: Alignments							
Line #	Length	Direction	Start Station	Start Point (N, E)	End Point (N, E)	Start (E) Elevation	Start (P) Elevation
L1	12.60	S52° 52' 40.25"W	0+00.00	1963766.5156, 2910752.7847	1963758.9133, 2910742.7407	10123.45	10123.45
L2	33.30	S16° 03' 01.65"W	0+12.60	1963758.9133, 2910742.7407	1963726.9115, 2910733.5338	10123.45	10123.45
L3	22.24	S21° 34' 34.65"W	0+45.90	1963726.9115, 2910733.5338	1963706.2339, 2910725.3568	10123.87	10123.71
L4	20.01	S27° 34' 37.28"W	0+68.13	1963706.2339, 2910725.3568	1963688.4986, 2910716.0941	10124.51	10123.89
L5	18.03	S30° 22' 25.78"W	0+88.14	1963688.4986, 2910716.0941	1963672.9469, 2910706.9795	10125.04	10124.04
L6	30.36	S22° 30' 40.18"W	1+06.17	1963672.9469, 2910706.9795	1963644.8979, 2910695.3548	10125.23	10124.19
L7	13.74	S18° 14' 01.28"W	1+36.53	1963644.8979, 2910695.3548	1963631.8466, 2910691.0553	10125.55	10124.42
L8	28.55	S30° 03' 50.04"W	1+50.27	1963631.8466, 2910691.0553	1963607.1368, 2910676.7523	10125.64	10124.53
L9	15.60	S36° 11' 28.59"W	1+78.82	1963607.1368, 2910676.7523	1963594.5455, 2910667.5398	10126.11	10124.75
L10	28.91	S42° 44' 24.04"W	1+94.42	1963594.5455, 2910667.5398	1963573.3102, 2910647.9170	10126.06	10124.88
L11	25.28	S49° 19' 02.45"W	2+23.34	1963573.3102, 2910647.9170	1963556.8340, 2910628.7499	10125.94	10125.10
L12	34.55	S46° 50' 49.96"W	2+48.61	1963556.8340, 2910628.7499	1963533.2006, 2910603.5413	10127.66	10125.30
L13	36.13	S37° 05' 48.58"W	2+83.17	1963533.2006, 2910603.5413	1963504.3796, 2910581.7466	10127.69	10125.57
L14	16.92	S18° 23' 22.87"W	3+19.30	1963504.3796, 2910581.7466	1963488.3238, 2910576.4088	10128.46	10125.85
L15	27.76	S30° 04' 39.46"W	3+36.22	1963488.3238, 2910576.4088	1963464.3034, 2910562.4972	10128.31	10125.98
L16	60.17	S40° 27' 07.93"W	3+63.98	1963464.3034, 2910562.4972	1963418.5182, 2910523.4589	10129.05	10126.20
L17	101.58	S32° 13' 25.16"W	4+24.15	1963418.5182, 2910523.4589	1963332.5844, 2910469.2939	10129.76	10126.67
L18	136.84	S44° 27' 05.61"W	5+25.73	1963332.5844, 2910469.2939	1963234.9040, 2910373.4658	10131.21	10127.47

NOTE: START (E) ELEVATION IS THE EXISTING GROUND ELEVATION AT THE START OF THE LINE AND START (P) ELEVATION IS THE PROPOSED ELEVATION AT THAT SAME LOCATION.



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE
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PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

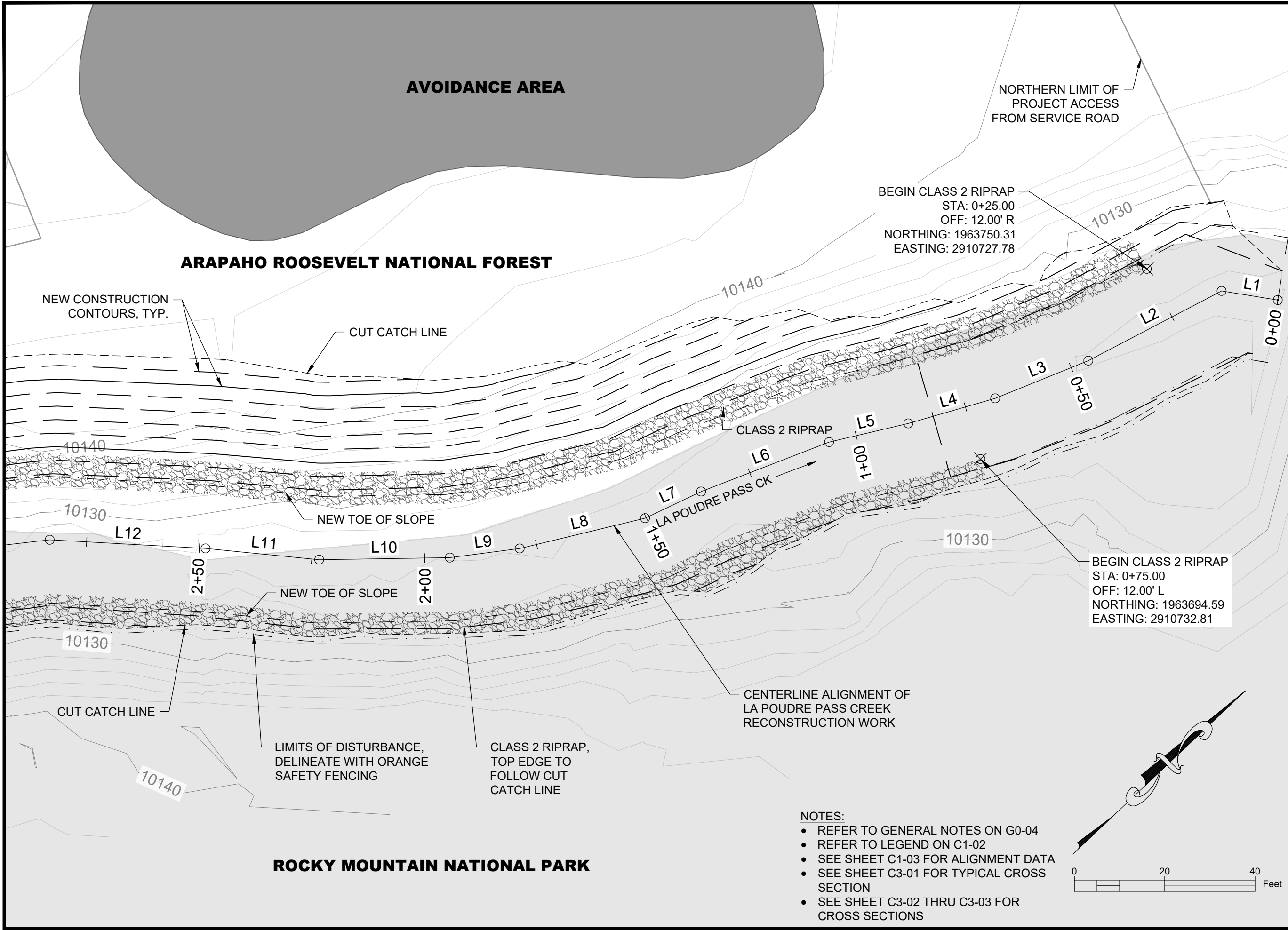
CANYON LAKES RANGER DISTRICT


DRAWING TITLE

ALIGNMENT AND
TEST PIT DATA

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-03
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 07 OF 23

8/13/20 11:23 PLEISCHMANN C:\USERS\PLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUMEDESIGN\GRANDDITCH\PLANS.DWG





United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

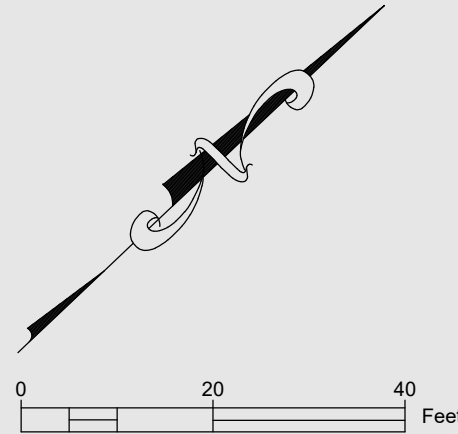
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

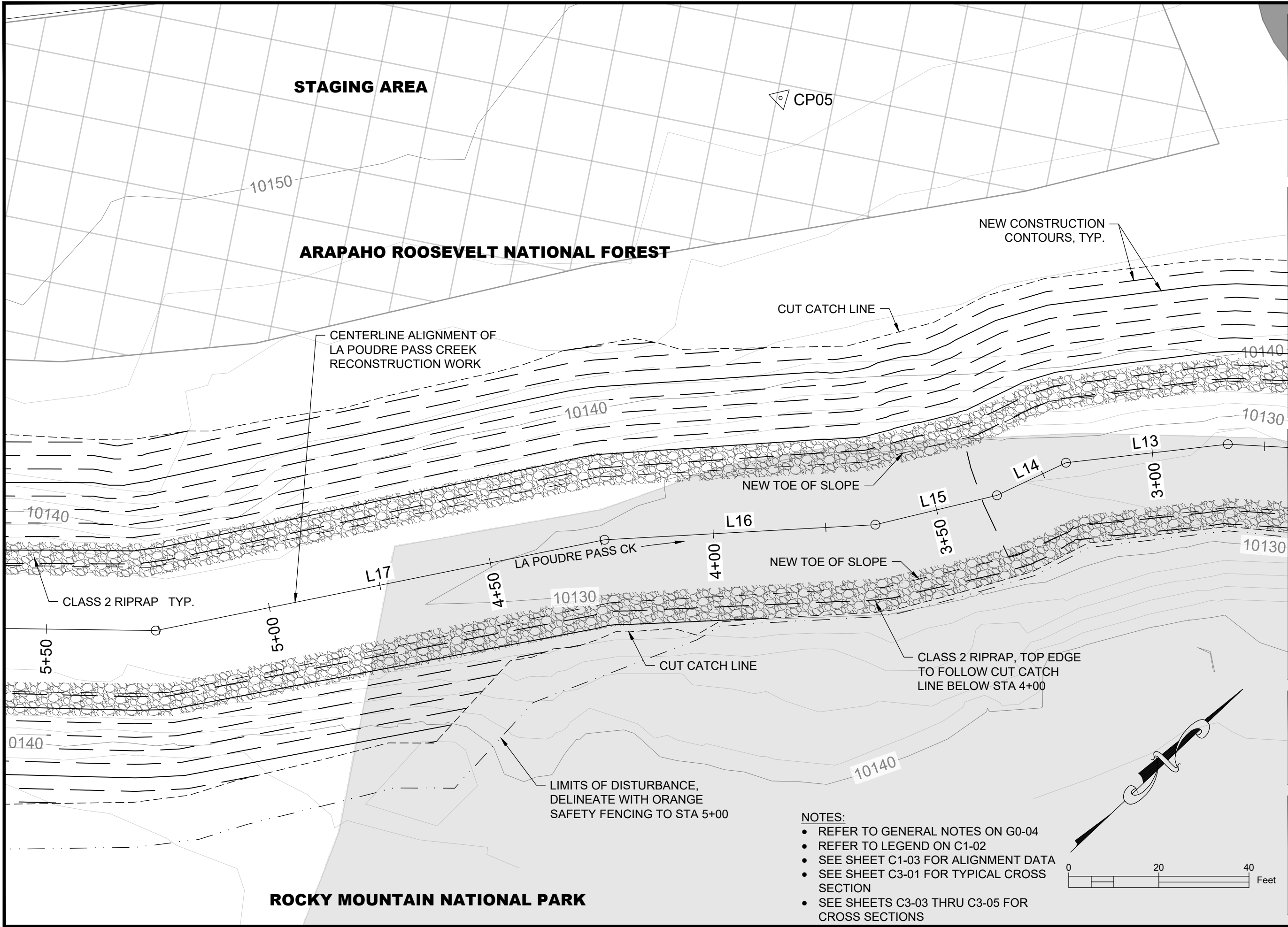
SITE PLAN
STA 0+00 TO STA 2+75

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-04
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 08 OF 23

- NOTES:
- REFER TO GENERAL NOTES ON G0-04
 - REFER TO LEGEND ON C1-02
 - SEE SHEET C1-03 FOR ALIGNMENT DATA
 - SEE SHEET C3-01 FOR TYPICAL CROSS SECTION
 - SEE SHEET C3-02 THRU C3-03 FOR CROSS SECTIONS



8/13/20 11:23 PLEISCHMANN C:\USERS\PLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\CHLUME\DESIGN\GRANDDITCH\PLANS.DWG





United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH
FISH BARRIER

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

SITE PLAN
STA 2+75 TO STA 5+50

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-05
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 09 OF 23

8/13/20 11:23 PLEISCHMANN C:\USERS\PLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUME\DESIGN\GRANDDITCH\PLANS.DWG

ARAPAHO ROOSEVELT NATIONAL FOREST

- NOTES:
- REFER TO GENERAL NOTES ON G0-04
 - REFER TO LEGEND ON C1-02
 - SEE SHEET C1-03 FOR ALIGNMENT DATA
 - SEE SHEET C3-01 FOR TYPICAL CROSS SECTIONS
 - SEE SHEETS C3-06 THRU C3-07 FOR CROSS SECTIONS
 - SEE SHEET C4-01 FOR SPLASH PAD SECTIONS A-A AND B-B
 - SEE SHEET C4-02 FOR SPLASH PAD SECTION C-C



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(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

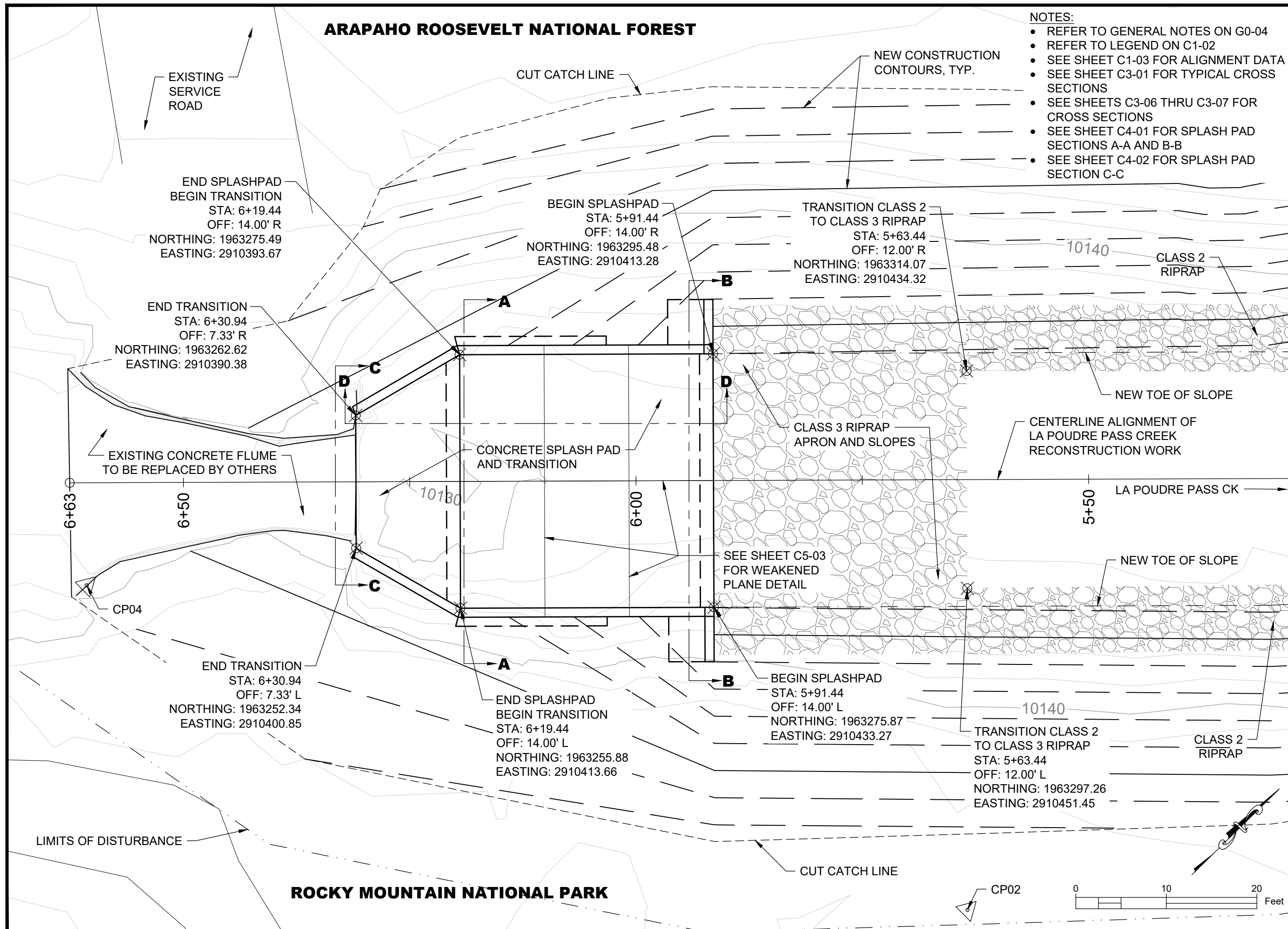
ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE





**SITE PLAN
STA 5+50 TO STA 6+61**

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C1-06
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 10 OF 23



ROCKY MOUNTAIN NATIONAL PARK

STAMPS, LOGOS, AND SEALS

		
		
		
		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH FISH BARRIER

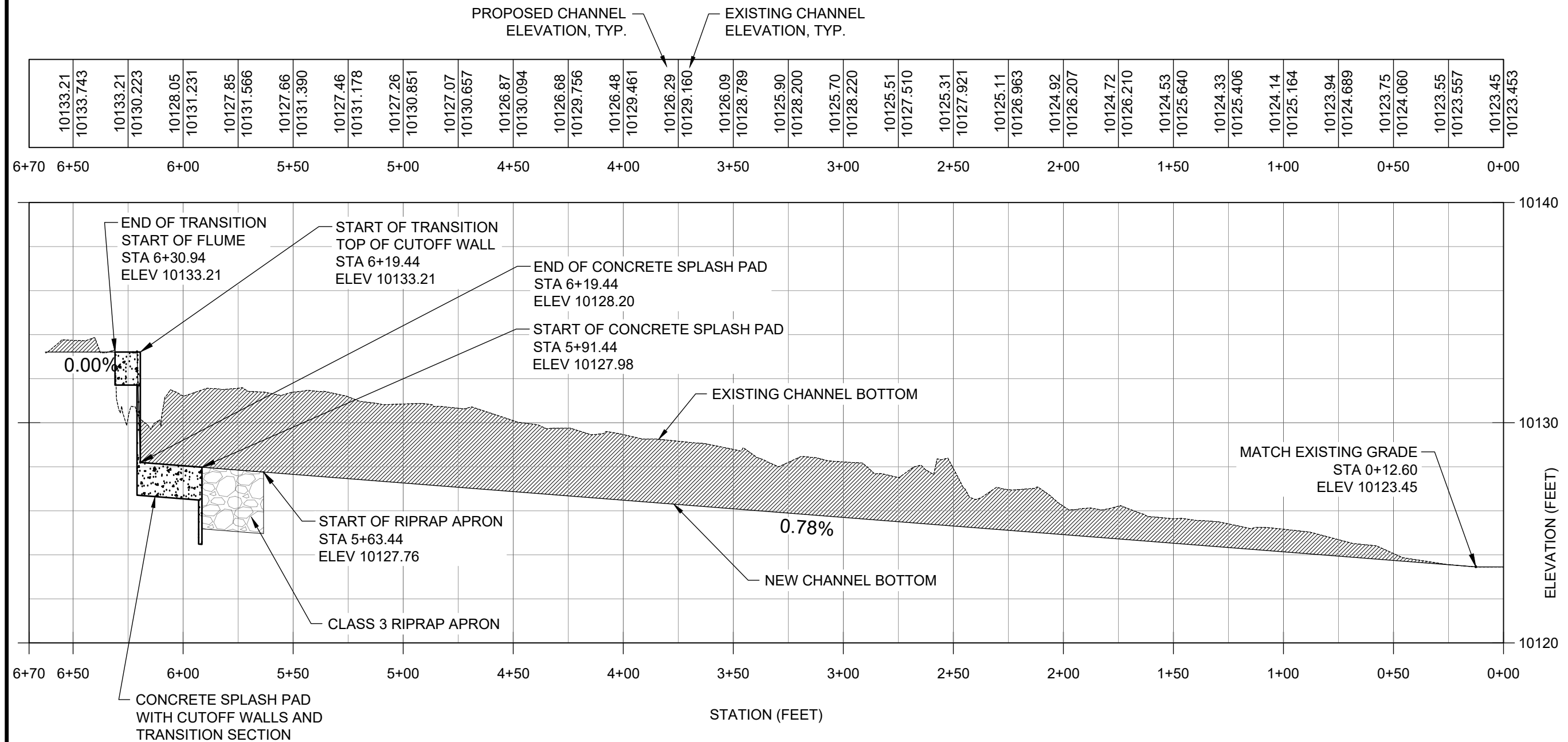
**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

CANYON LAKES RANGER DISTRICT

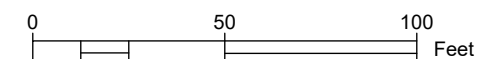
DRAWING TITLE

CENTERLINE PROFILE

DATE 08/12/2020	ARCHIVE NO.	
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO.	
DRAWING P.FLEISCHMANN	C2-01	
CHECKED D.CENDERELLI		
PROJECT NO. WTR-17-0210-001	SHEET 11 OF 23	

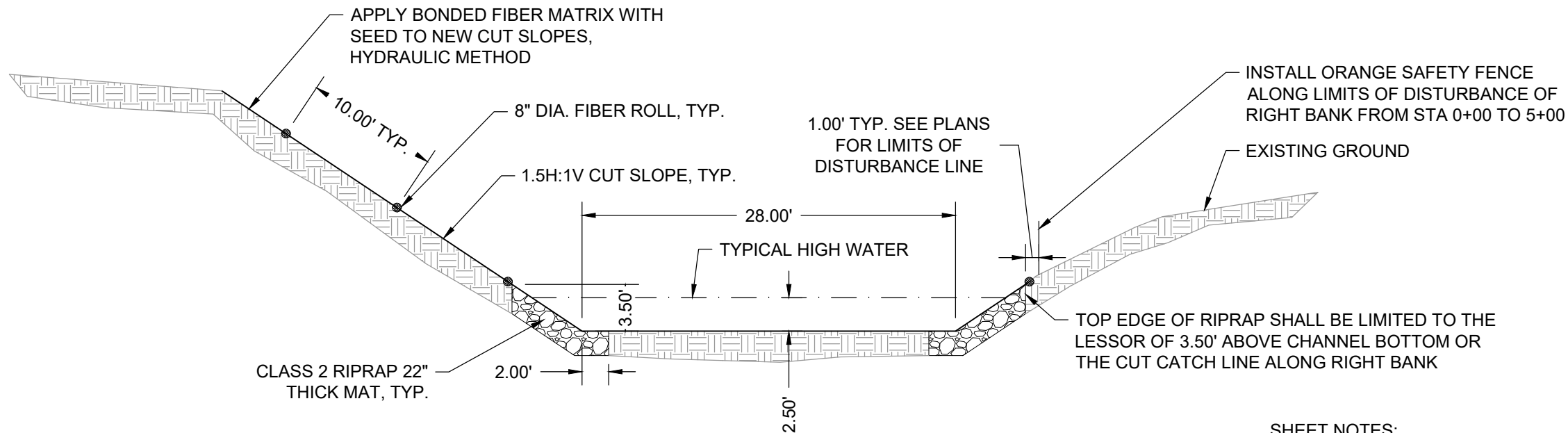


LA POUDRE PASS CREEK CENTERLINE PROFILE



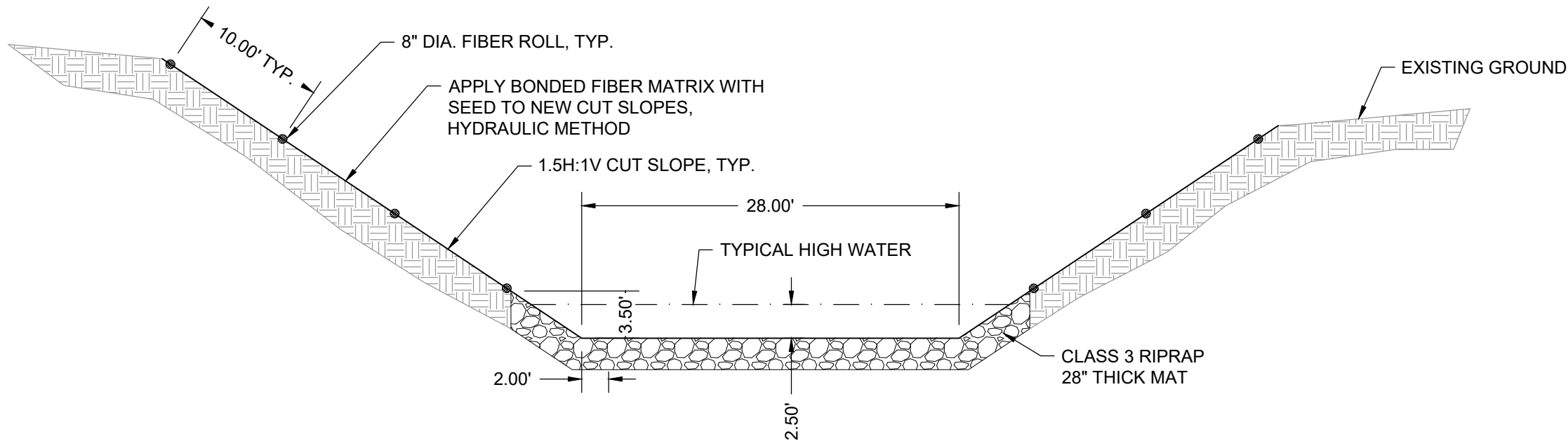
10x VERTICAL EXAGGERATION

8/12/20 10:03 PLEISCHMANN C:\USERS\PLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUME\DESIGN\GRANDDITCH\PLANS.DWG

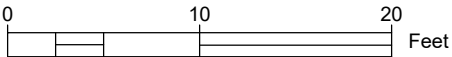



TYPICAL CHANNEL CROSS SECTION
STA 0+12.60 TO STA 5+63.44

- SHEET NOTES:**
- REFER TO GENERAL NOTES ON G0-04
 - SECTIONS ARE LOOKING DOWN STREAM
 - REFER TO FP-14 SECTION 705 FOR RIPRAP SPECIFICATIONS
 - BEDROCK MAY BE ENCOUNTERED AND SHALL BE EXCAVATED TO THE LIMITS SHOWN
 - OVER EXCAVATION OF COMPETENT BEDROCK FOR PLACEMENT OF RIPRAP NOT REQUIRED



TYPICAL APRON CROSS SECTION
STA 5+63.44 TO STA 5+91.44





United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

**GRAND DITCH
FISH BARRIER**

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

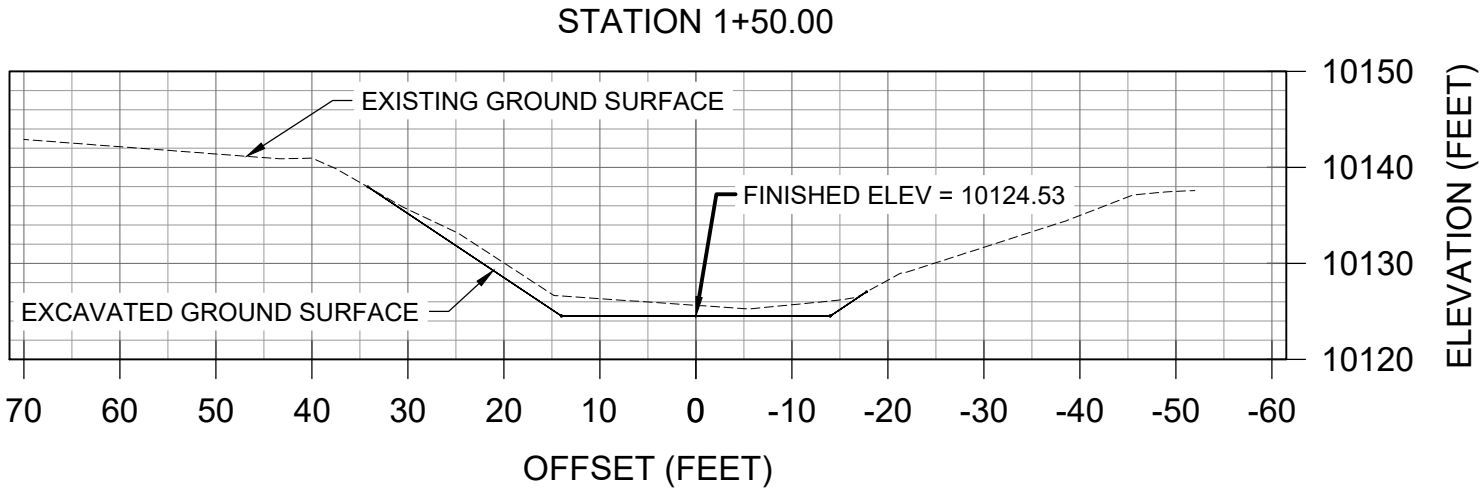
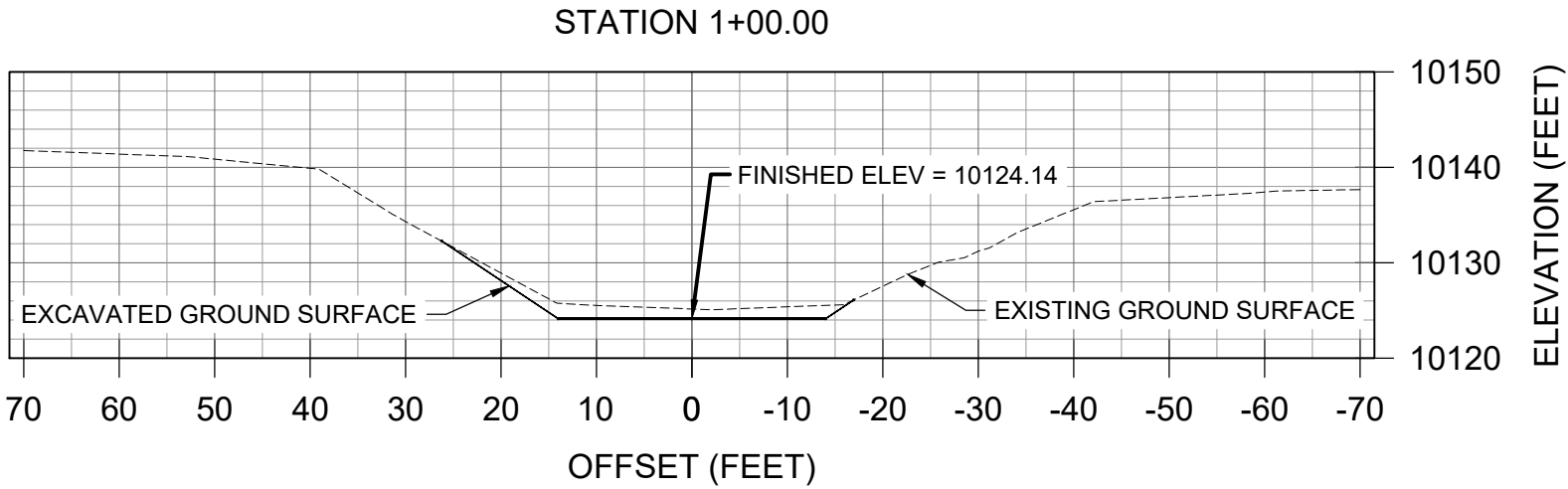
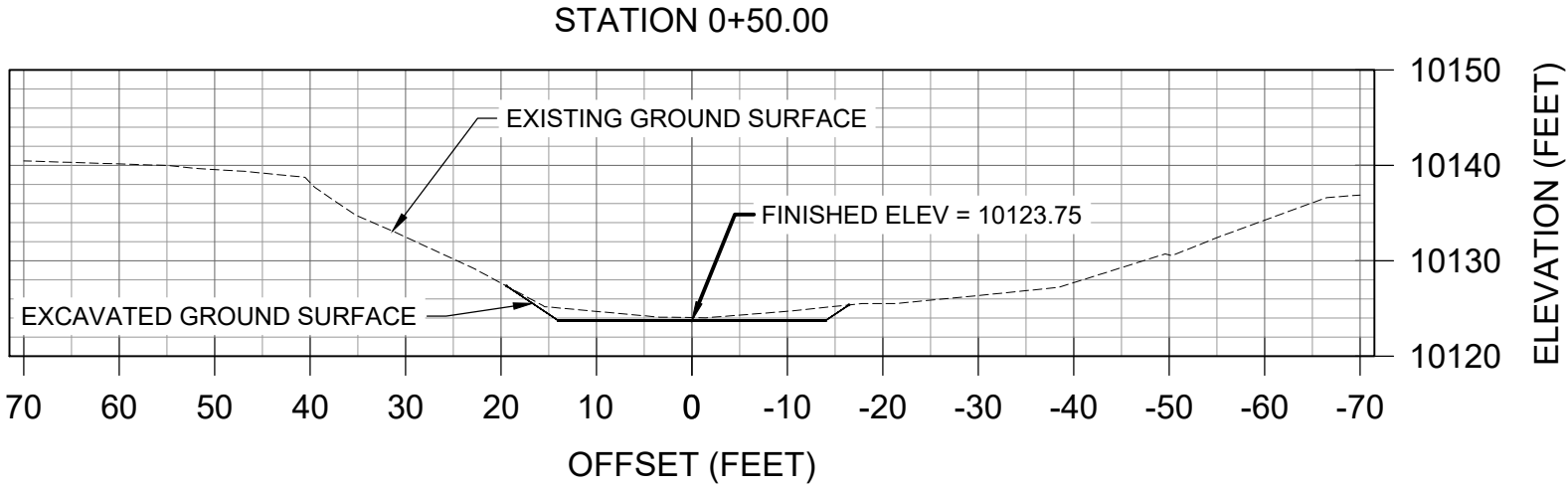
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

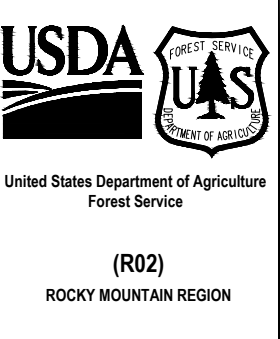
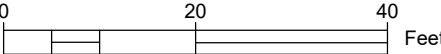
**TYPICAL CHANNEL
CROSS SECTIONS**

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-01
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 12 OF 23

8/12/20 10:03 PLEISCHMANN C:\USERS\PLEISCHMANN\BOXEP_ONESTOPSHOP\EP WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUMEDESIGN\GRANDDITCHPLANS.DWG;



- SHEET NOTES:**
- SEE SHEET C3-01 FOR TYPICAL SECTION
 - SEE SHEET C1-04 FOR SECTION LOCATION ON PLAN
 - SECTIONS ARE LOOKING DOWNSTREAM



STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

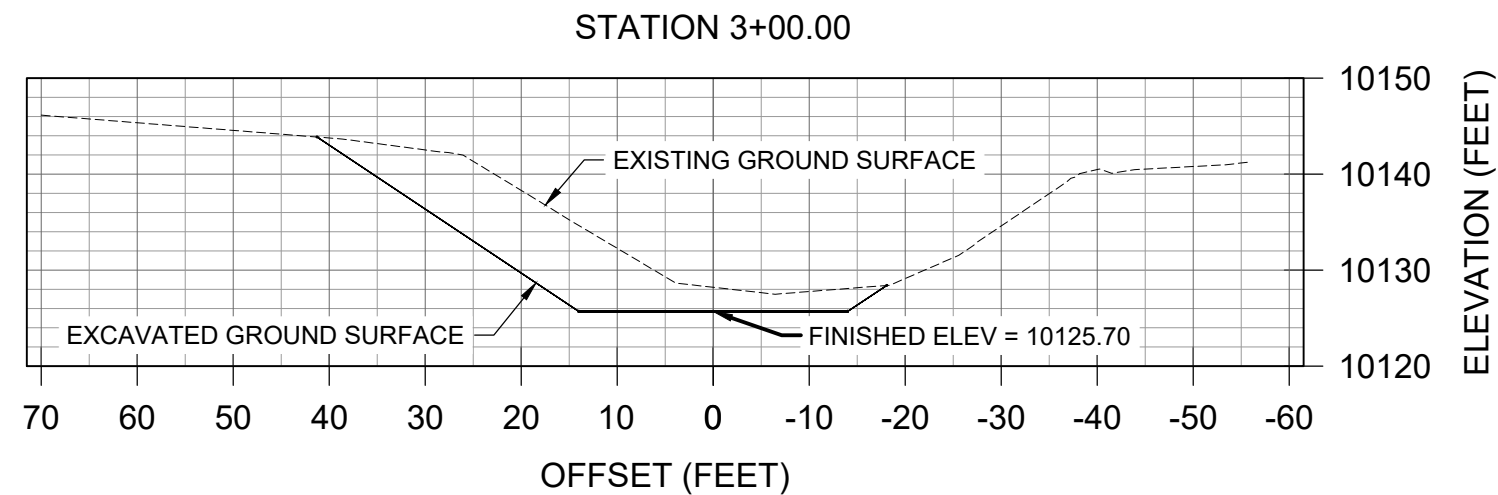
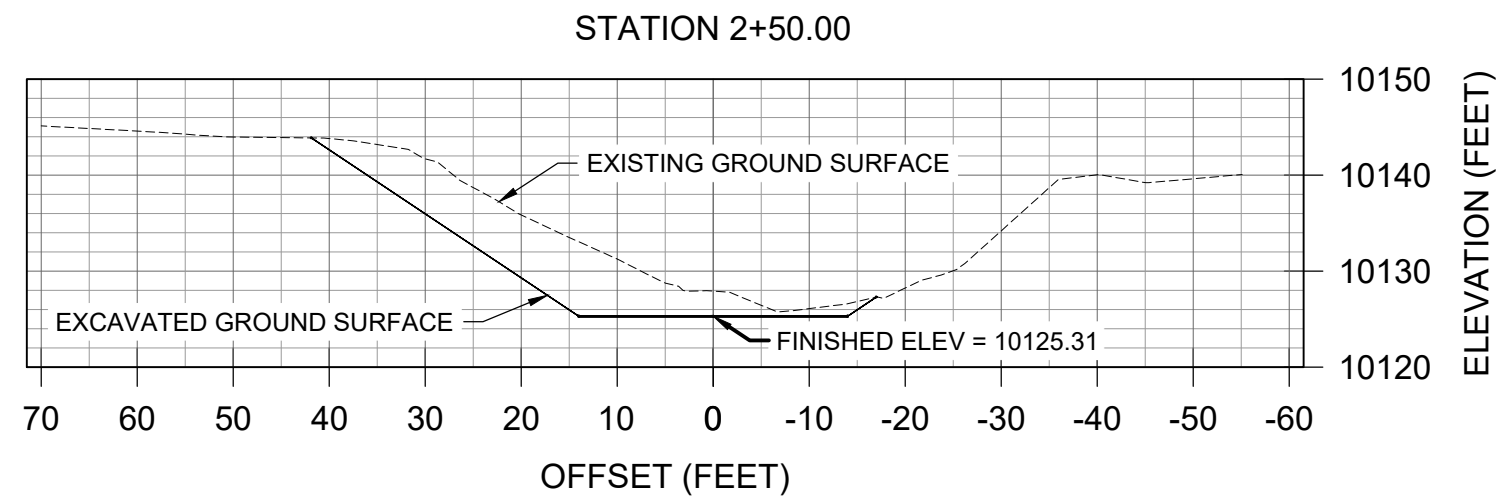
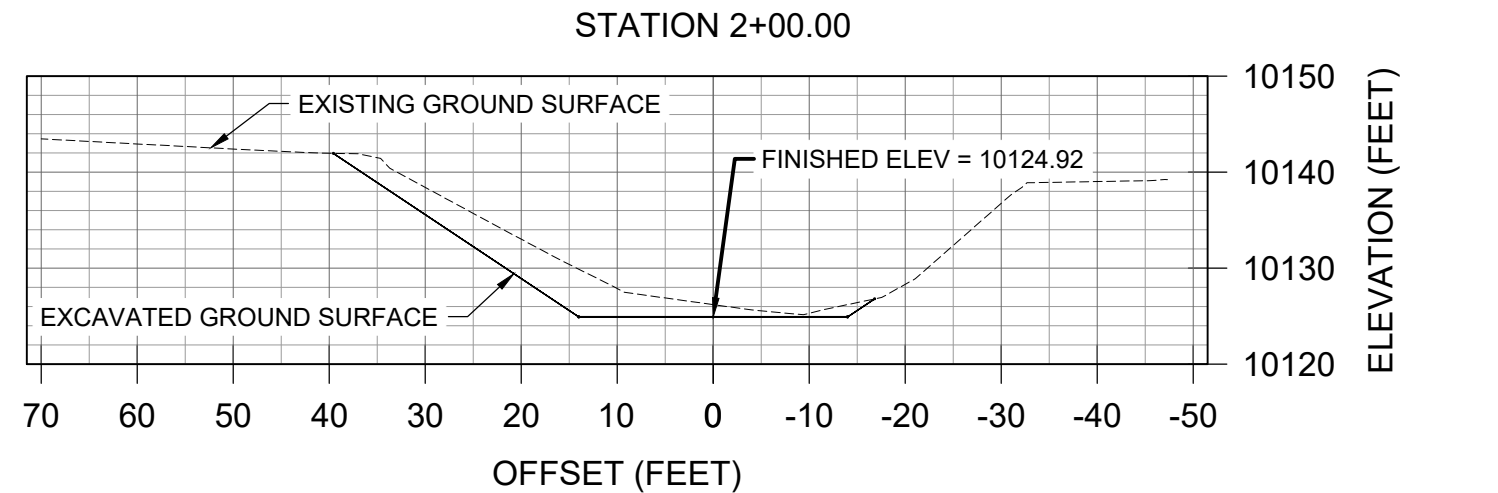
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

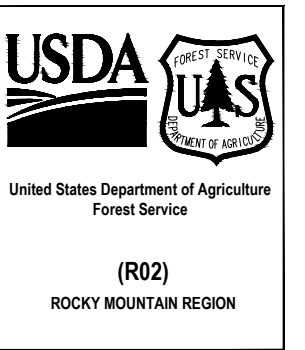
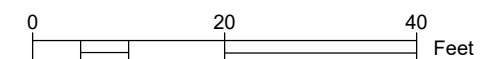
**CHANNEL CROSS
SECTIONS
STA 0+50 THRU 1+50**

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-02
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 13 OF 23

8/12/20 10:03 PLEISCHMANN C:\USERS\PLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUME\DESIGN\GRANDDITCH\PLANS.DWG



- SHEET NOTES:**
- SEE SHEET C3-01 FOR TYPICAL SECTION
 - SEE SHEET C1-04 AND C1-05 FOR SECTION LOCATION ON PLAN
 - SECTIONS ARE LOOKING DOWNSTREAM



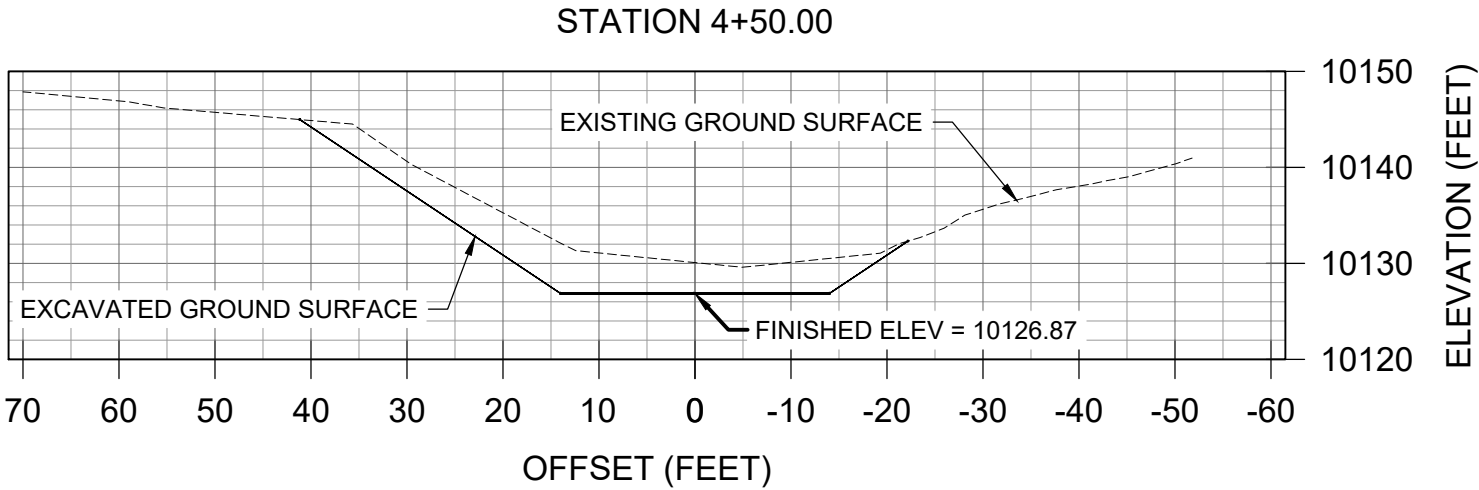
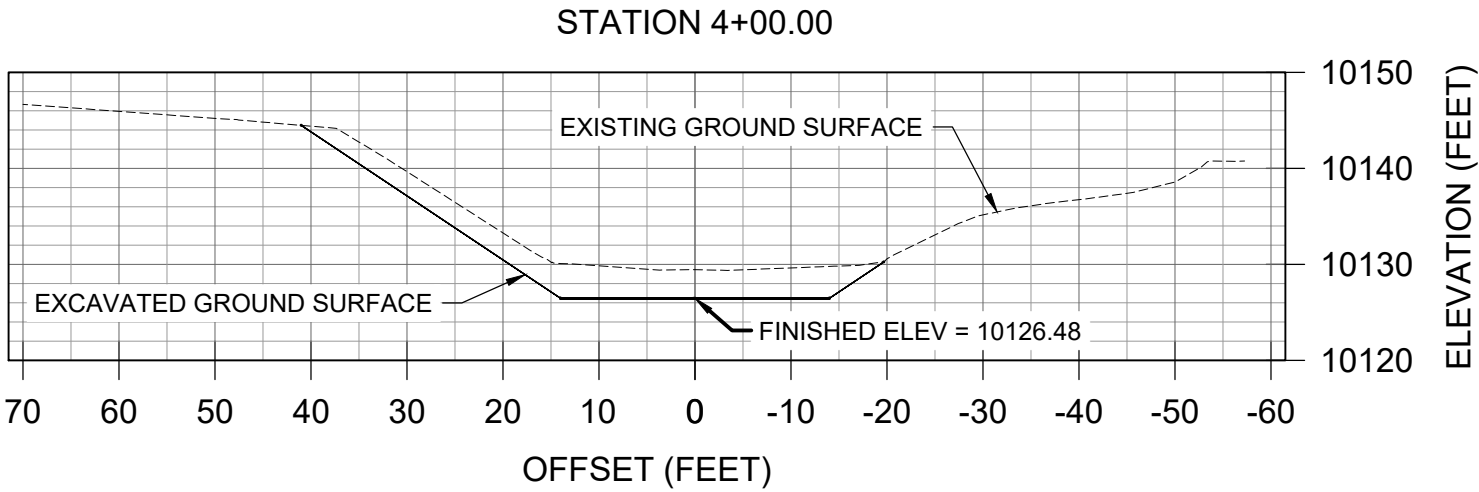
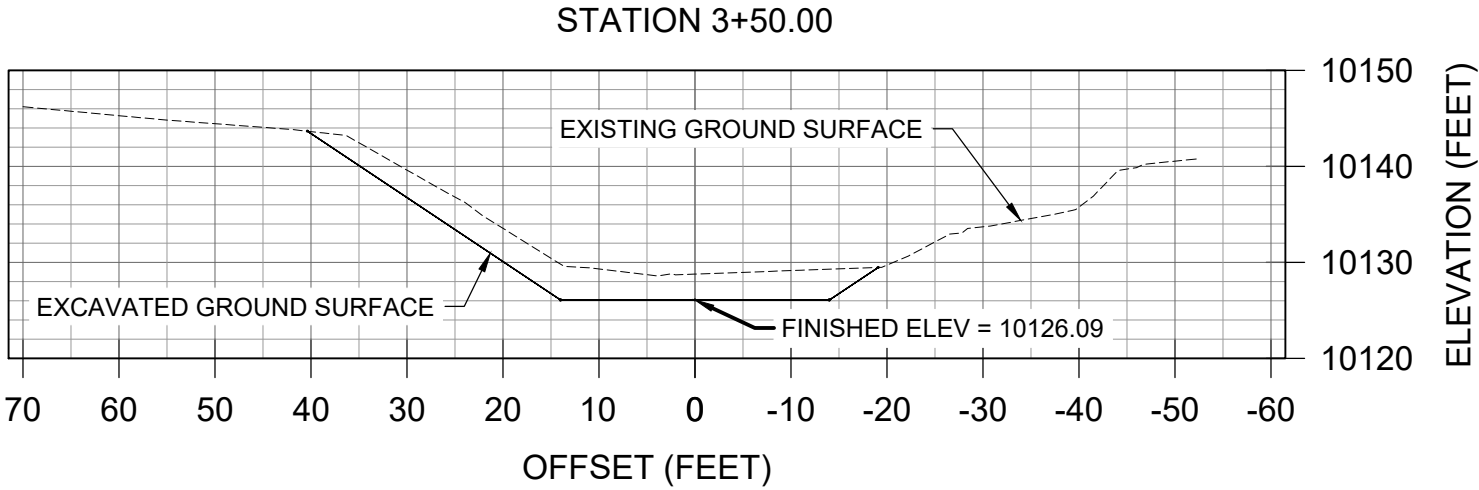
STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME
GRAND DITCH FISH BARRIER
ARAPAHO ROOSEVELT NATIONAL FORESTS AND PAWNEE NATIONAL GRASSLAND
CANYON LAKES RANGER DISTRICT

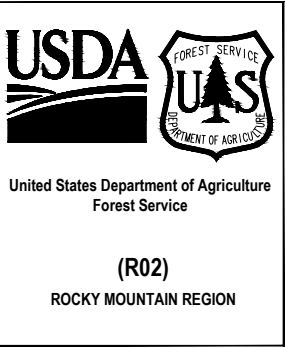
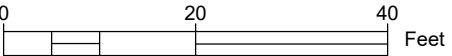
DRAWING TITLE
CHANNEL CROSS SECTIONS STA 2+00 THRU 3+00

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-03
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 14 OF 23

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- SHEET NOTES:**
- SEE SHEET C3-01 FOR TYPICAL SECTION
 - SEE SHEET C1-05 FOR SECTION LOCATION ON PLAN
 - SECTIONS ARE LOOKING DOWNSTREAM

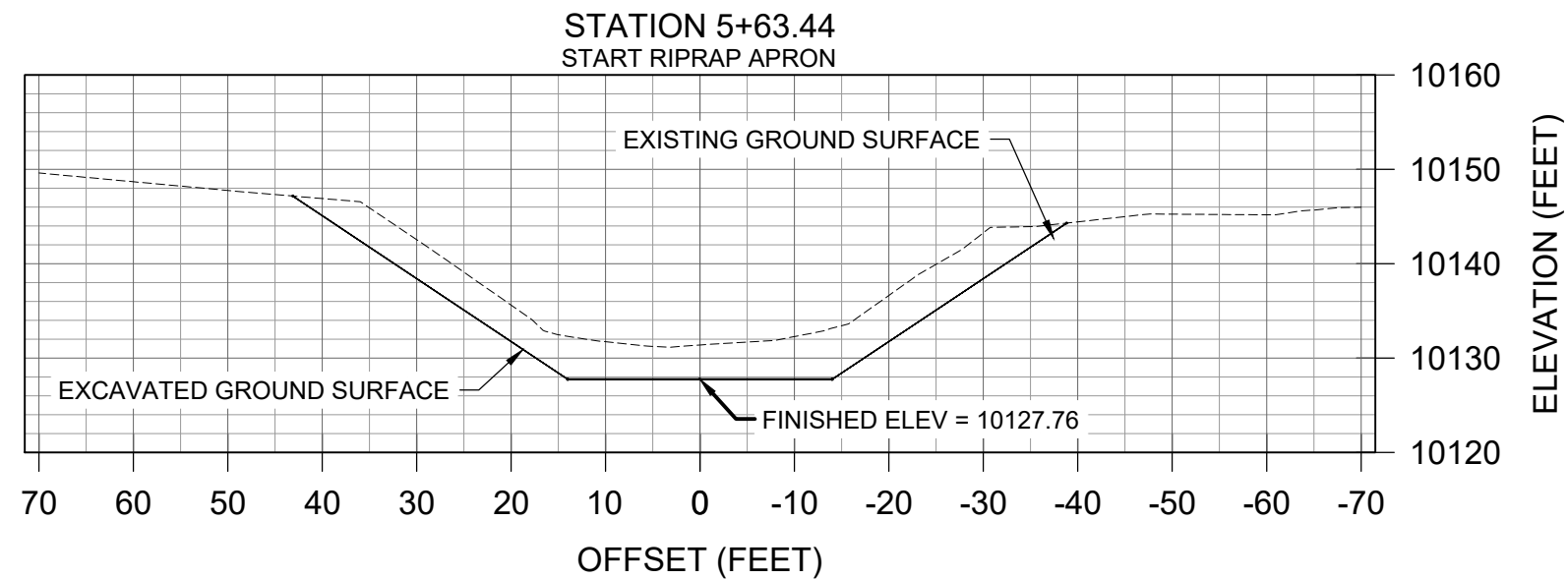
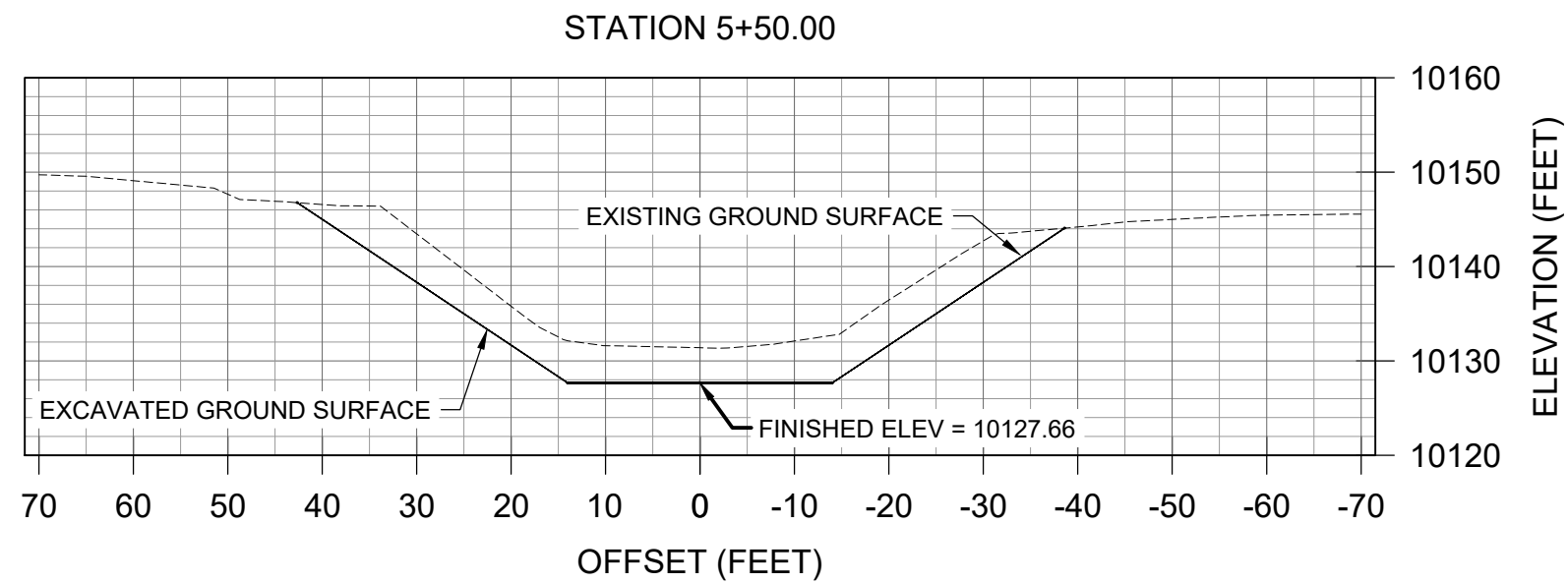
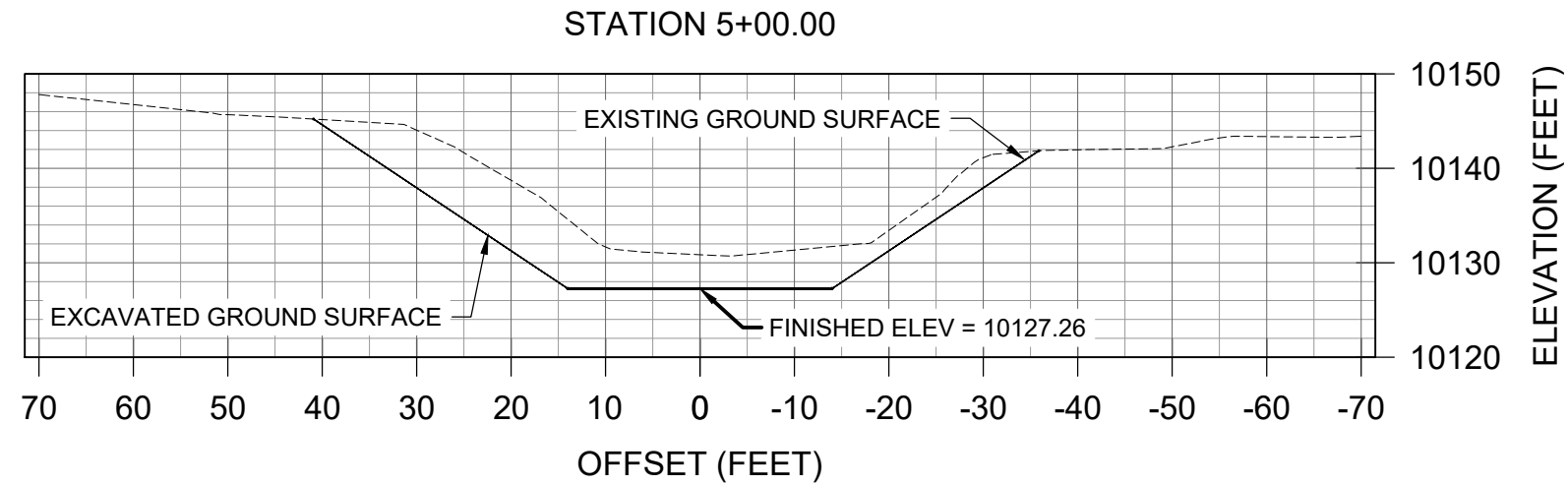


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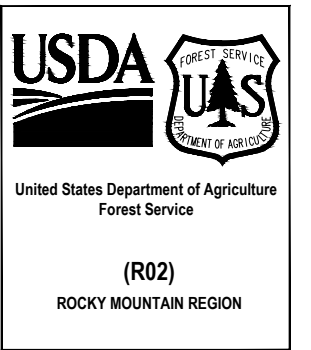
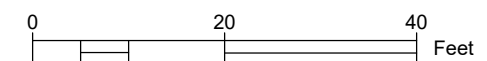
PROJECT NAME
GRAND DITCH FISH BARRIER
ARAPAHO ROOSEVELT NATIONAL FORESTS AND PAWNEE NATIONAL GRASSLAND
CANYON LAKES RANGER DISTRICT

DRAWING TITLE
CHANNEL CROSS SECTIONS STA 3+50 THRU 4+50

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-04
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 15 OF 23



- SHEET NOTES:**
- SEE SHEET C3-01 FOR TYPICAL SECTION
 - SEE SHEET C1-05 FOR SECTION LOCATION ON PLAN
 - SECTIONS ARE LOOKING DOWNSTREAM

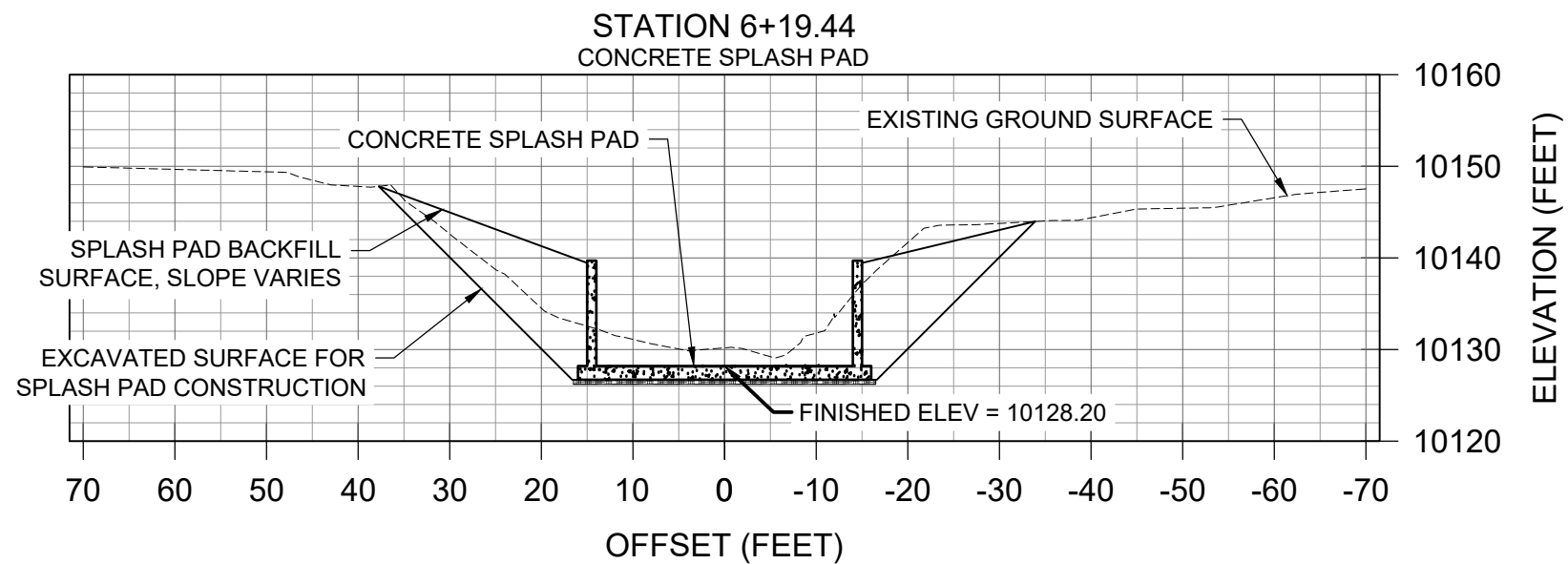
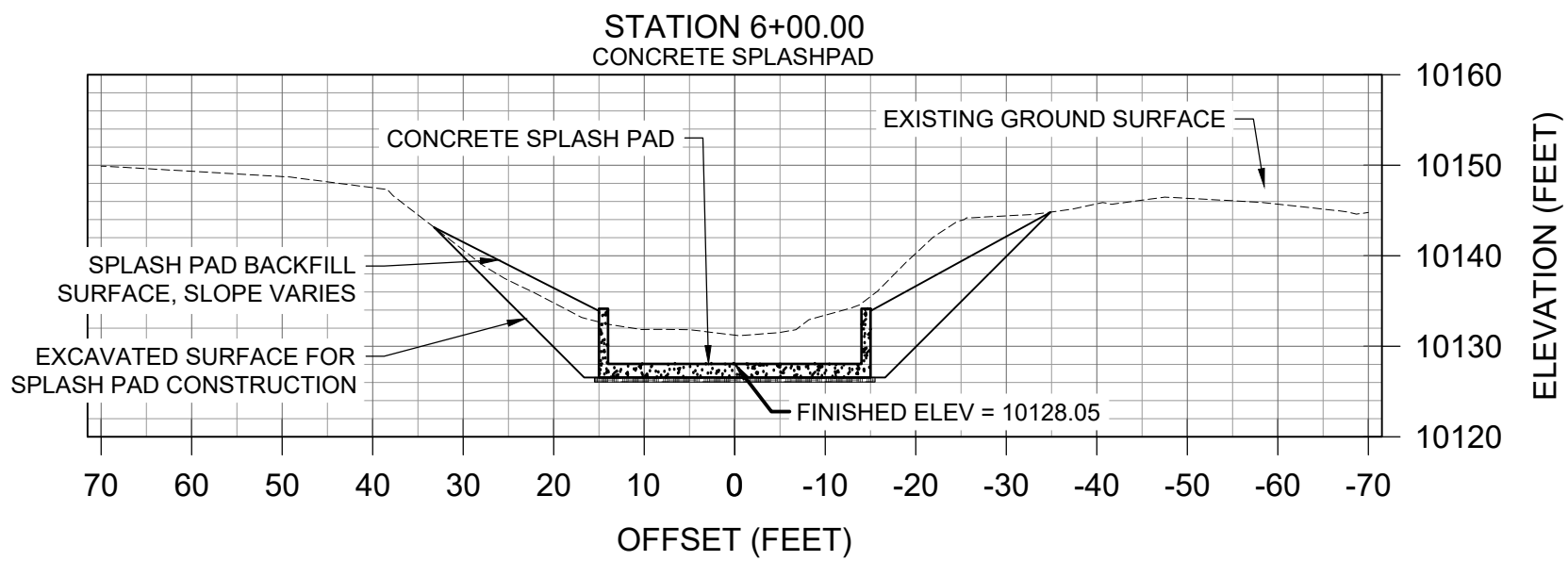
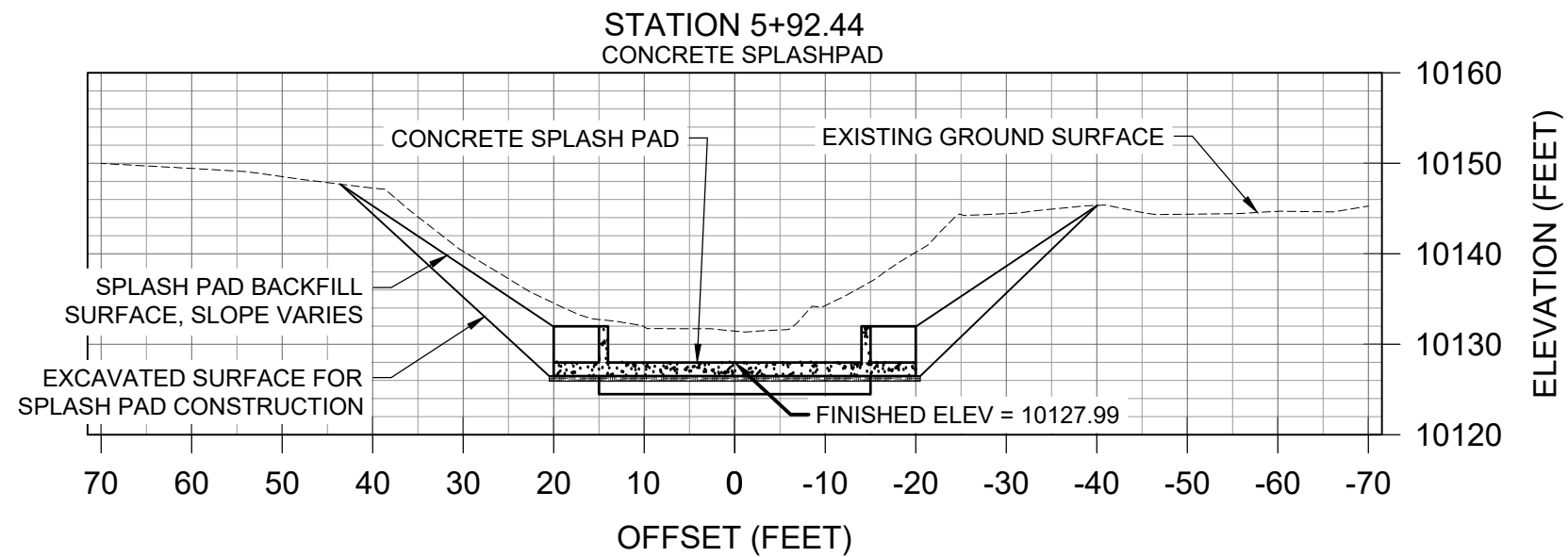


STAMPS, LOGOS, AND SEALS		
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PROJECT NAME		
GRAND DITCH FISH BARRIER		
ARAPAHO ROOSEVELT NATIONAL FORESTS AND PAWNEE NATIONAL GRASSLAND		
CANYON LAKES RANGER DISTRICT		

DRAWING TITLE	
CHANNEL CROSS SECTIONS STA 5+00 THRU 5+50	

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-05
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	SHEET 16 OF 23
PROJECT NO. WTR-17-0210-001	



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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PROJECT NAME

**GRAND DITCH
FISH BARRIER**

**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

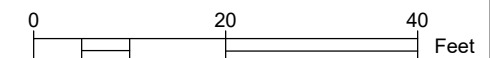
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

**CHANNEL CROSS
SECTIONS
STA 5+80 THRU 6+00**


SHEET NOTES:

- SEE SHEET C3-01 FOR TYPICAL CHANNEL SECTION
- SEE SHEET C4-01 FOR SPLASH PAD SECTIONS
- SEE SHEET C1-06 FOR SECTION LOCATION ON PLAN
- SECTIONS ARE LOOKING DOWNSTREAM



DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-06
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 17 OF 23

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Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

GRAND DITCH
FISH BARRIER

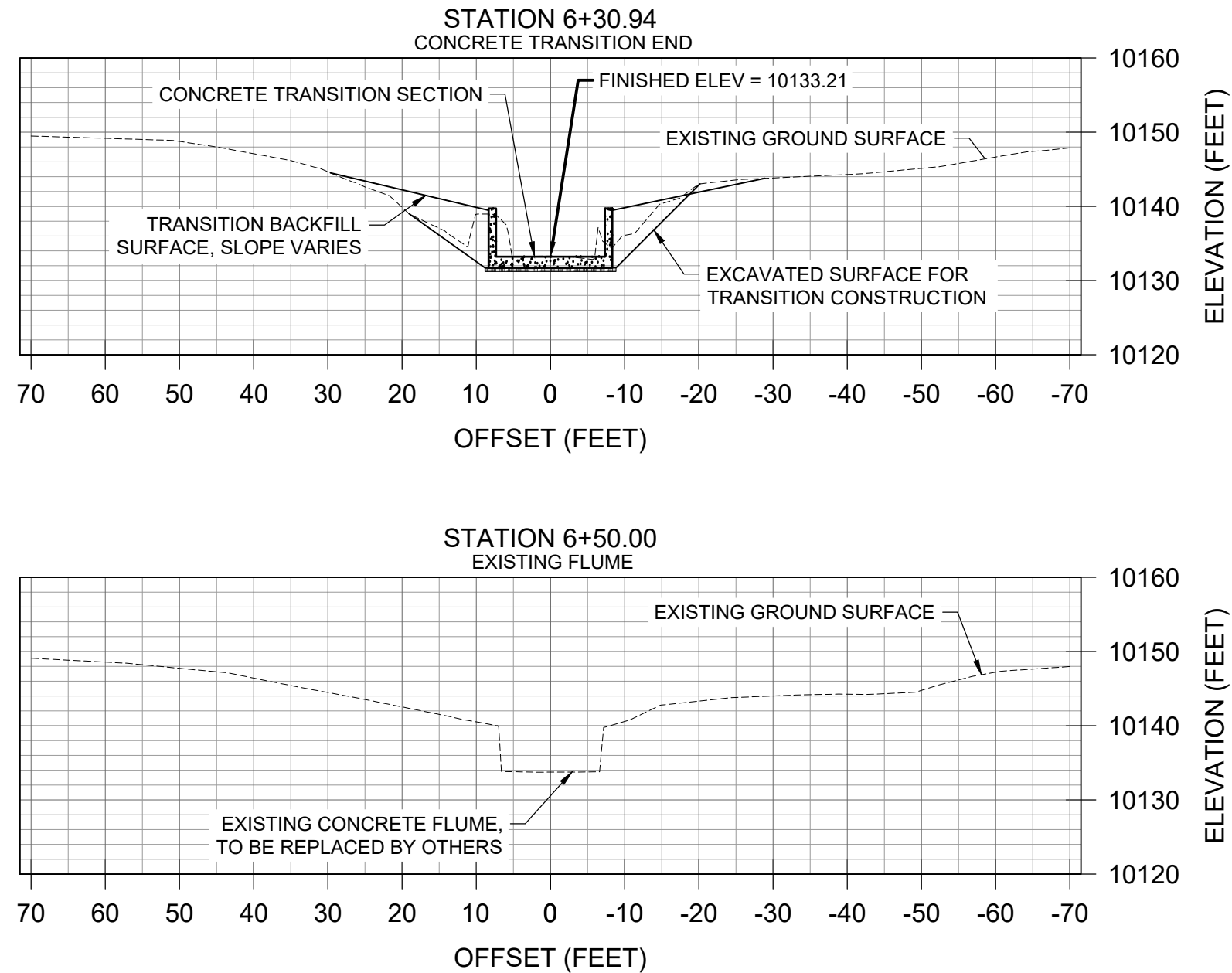
ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

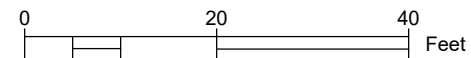
DRAWING TITLE

CHANNEL CROSS
SECTIONS
STA 6+30 THRU 6+50

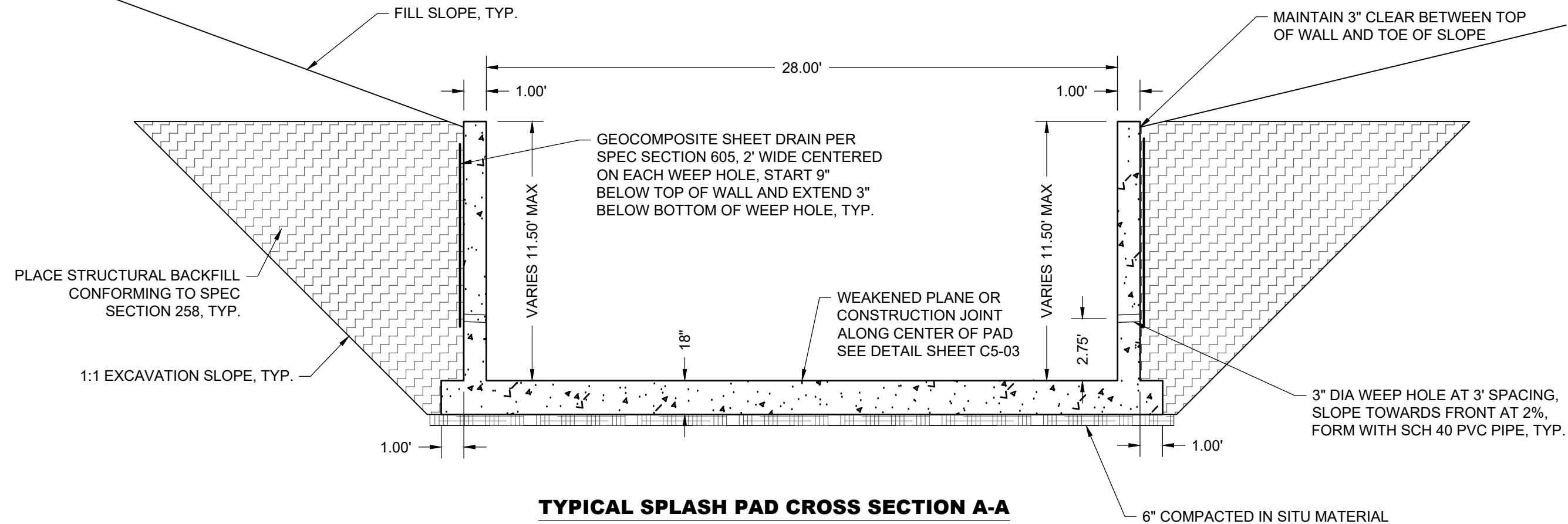
DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C3-07
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 18 OF 23



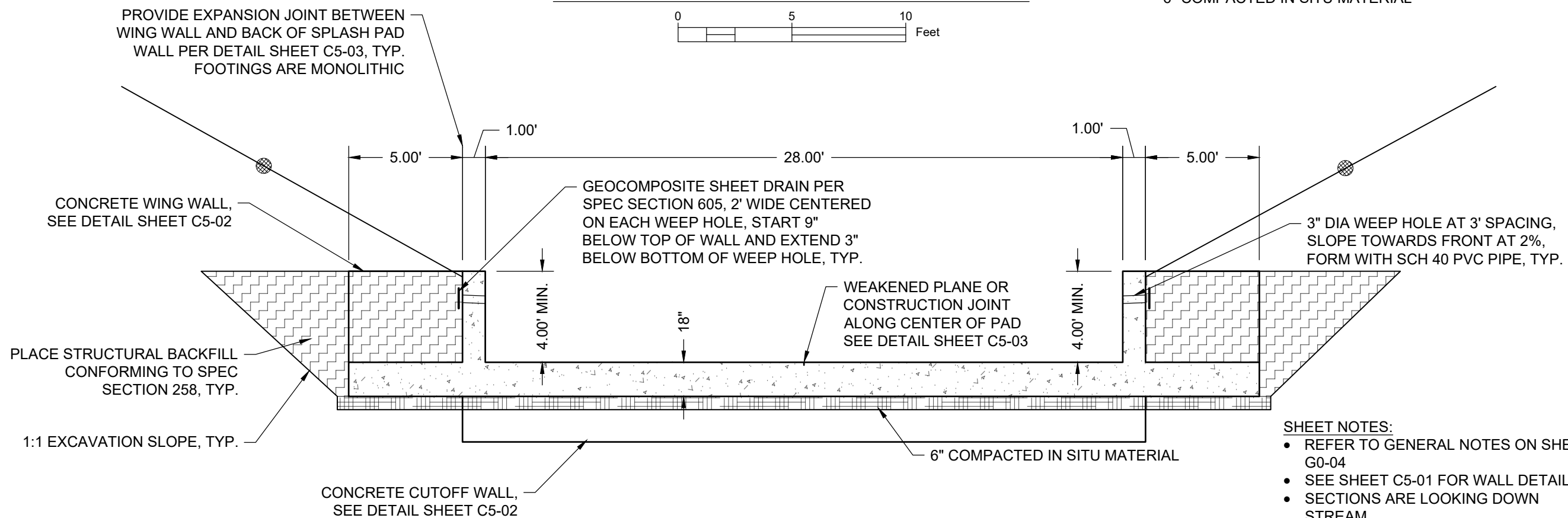
- SHEET NOTES:
- SEE SHEET C3-01 FOR TYPICAL CHANNEL SECTION
 - SEE SHEET C4-02 FOR SPLASH PAD SECTIONS
 - SEE SHEET C1-06 FOR SECTION LOCATION ON PLAN
 - SECTIONS ARE LOOKING DOWNSTREAM



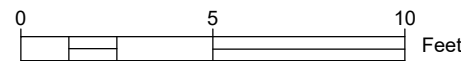
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TYPICAL SPLASH PAD CROSS SECTION A-A



SPLASH PAD END SECTION B-B



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

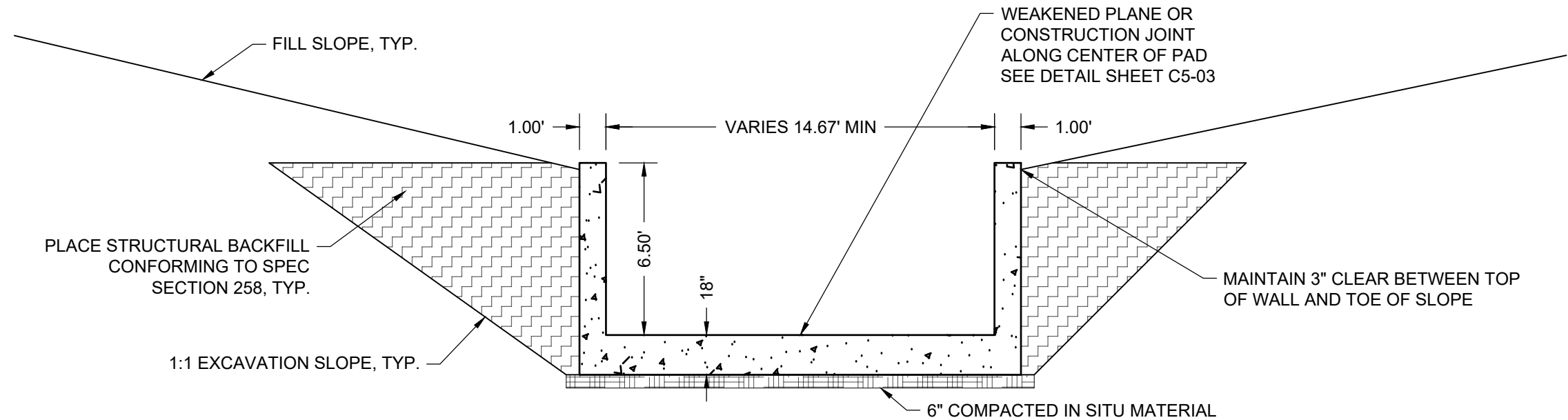
SPLASH PAD SECTIONS

SHEET NOTES:

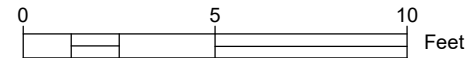
- REFER TO GENERAL NOTES ON SHEET G0-04
- SEE SHEET C5-01 FOR WALL DETAILS
- SECTIONS ARE LOOKING DOWN STREAM
- BEDROCK MAY BE ENCOUNTERED AND SHALL BE EXCAVATED TO ALLOW FOR FULL PLACEMENT OF CONCRETE TO DIMENSIONS SHOWN

DATE 02/23/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C4-01
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 19 OF 23

2/23/21 10:31 P\FLEISCHMANN\BOX\EP_ONESTOP\SHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUMEDESIGN\GRANDDITCH\PLANS.DWG

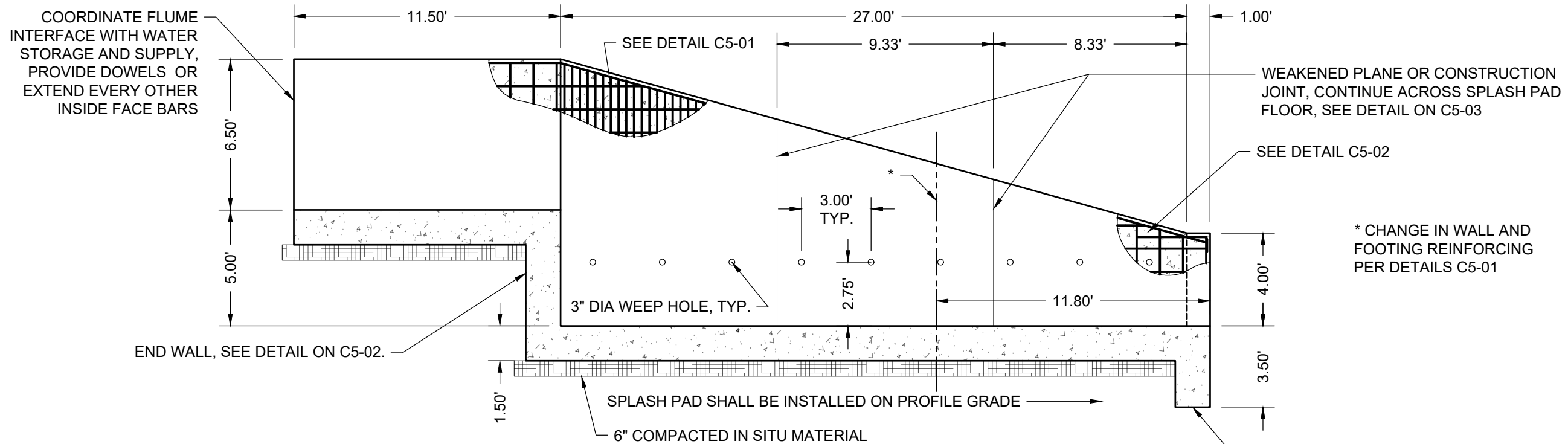


TYPICAL TRANSITION CROSS SECTION C-C

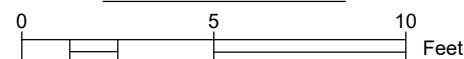


SHEET NOTES:

- REFER TO GENERAL NOTES ON SHEET G0-04
- SEE SHEET C5-01 FOR WALL DETAILS
- SECTION IS LOOKING DOWN STREAM
- BEDROCK MAY BE ENCOUNTERED AND SHALL BE EXCAVATED TO ALLOW FOR FULL PLACEMENT OF CONCRETE TO DIMENSIONS SHOWN



**SPLASH PAD SIDE WALL ELEVATION
SECTION D-D**



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

1		
2		
3		
4		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

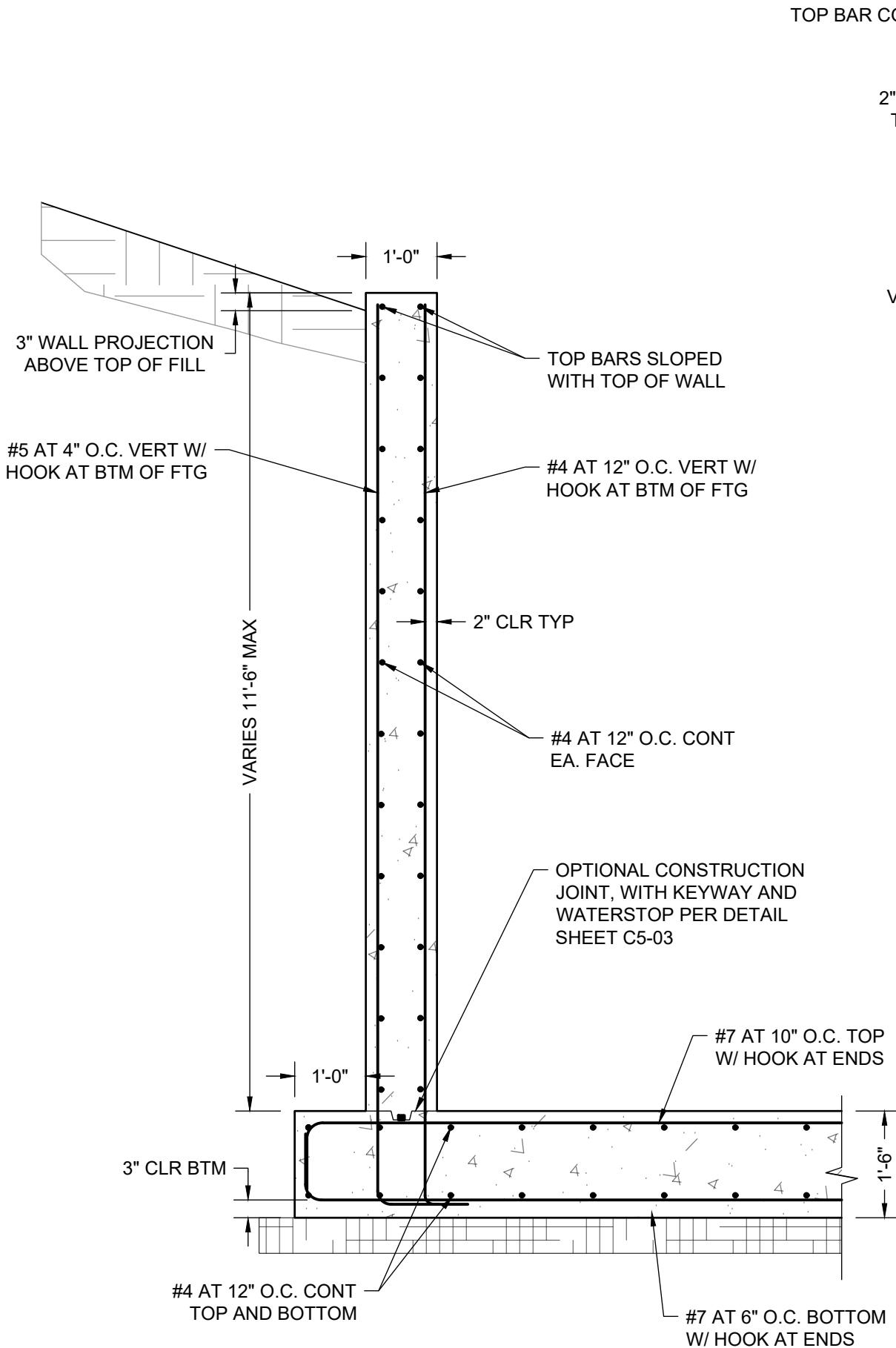
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

**SPLASH PAD SECTION
AND ELEVATION**

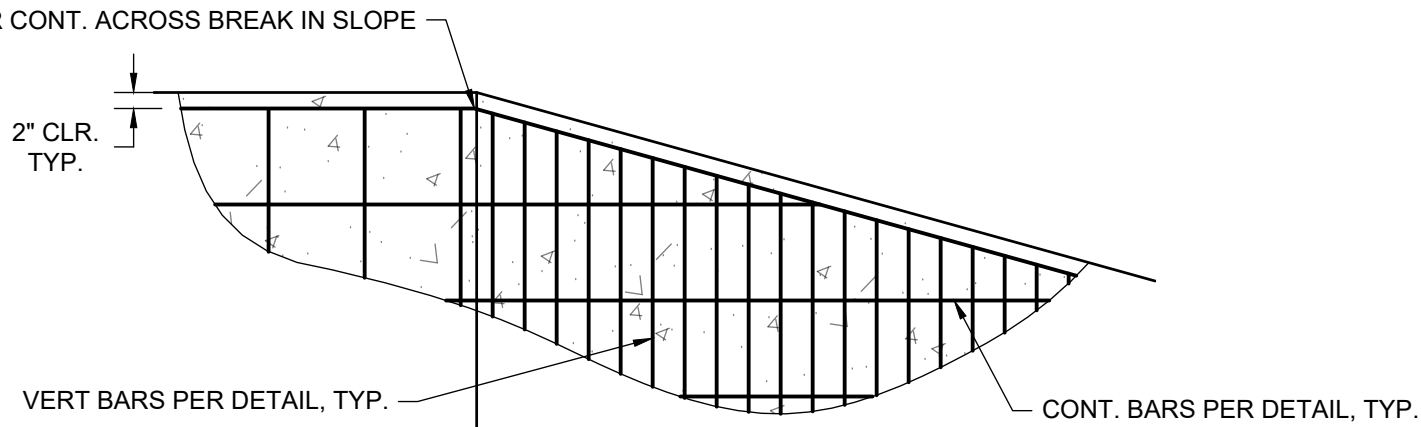
DATE 02/23/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C4-02
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 20 OF 23

1/20/21 16:51 P:\FLEISCHMANN\BOX\EP_ONESTOPSHOP\EP_WORKORDERS\WTR-17-0210-001\FISHBARRIER\GRANDDITCH\FLUME\DESIGN\GRANDDITCH\PLANS.DWG



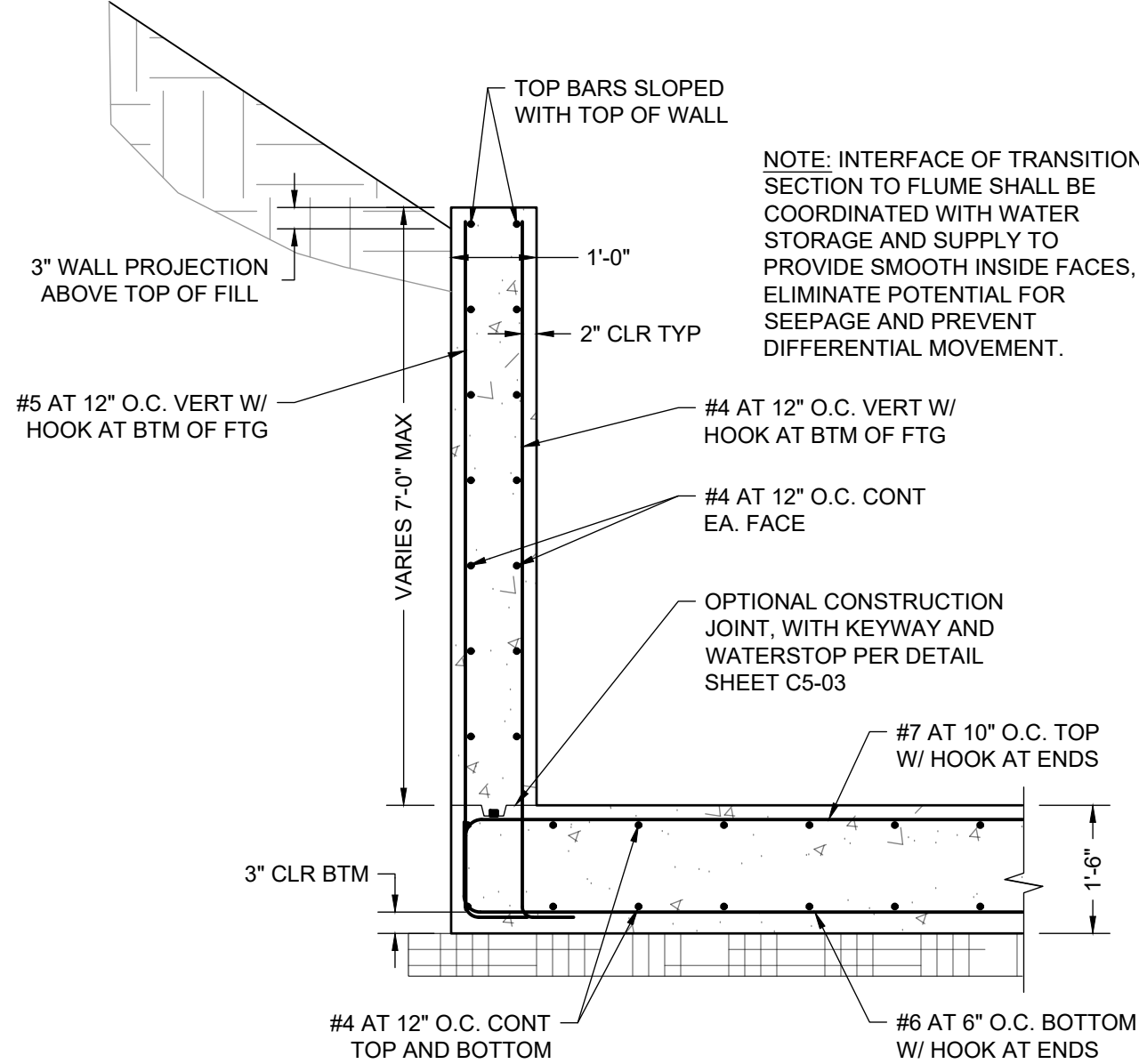
**SPLASH PAD SECTION
7'-0" TO 11'-6" TALL**

SCALE: 6" = 1'



**WALL REINFORCING
LAYOUT DETAIL**

SCALE: 6" = 1'



**SPLASH PAD AND TRANSITION SECTION
4'-0" TO 7'-0" TALL**

SCALE: 6" = 1'



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

4		
3		
2		
1		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

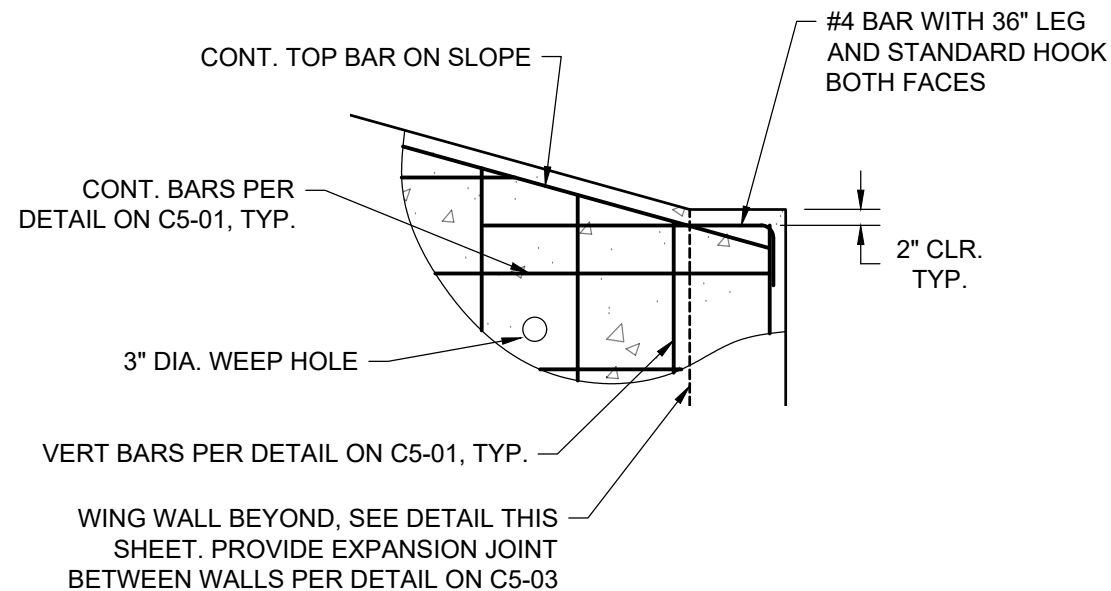
**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

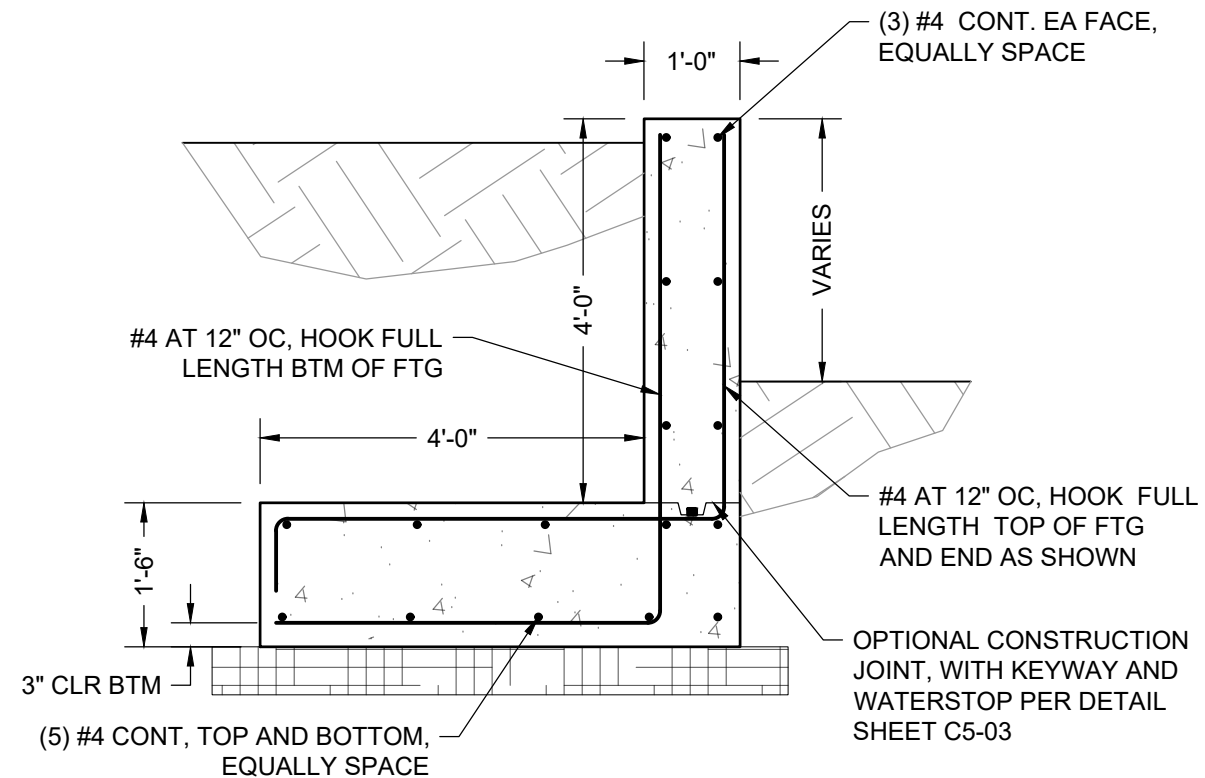
**SPLASH PAD
WALL SECTIONS**

DATE 01/20/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C5-01
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 21 OF 23



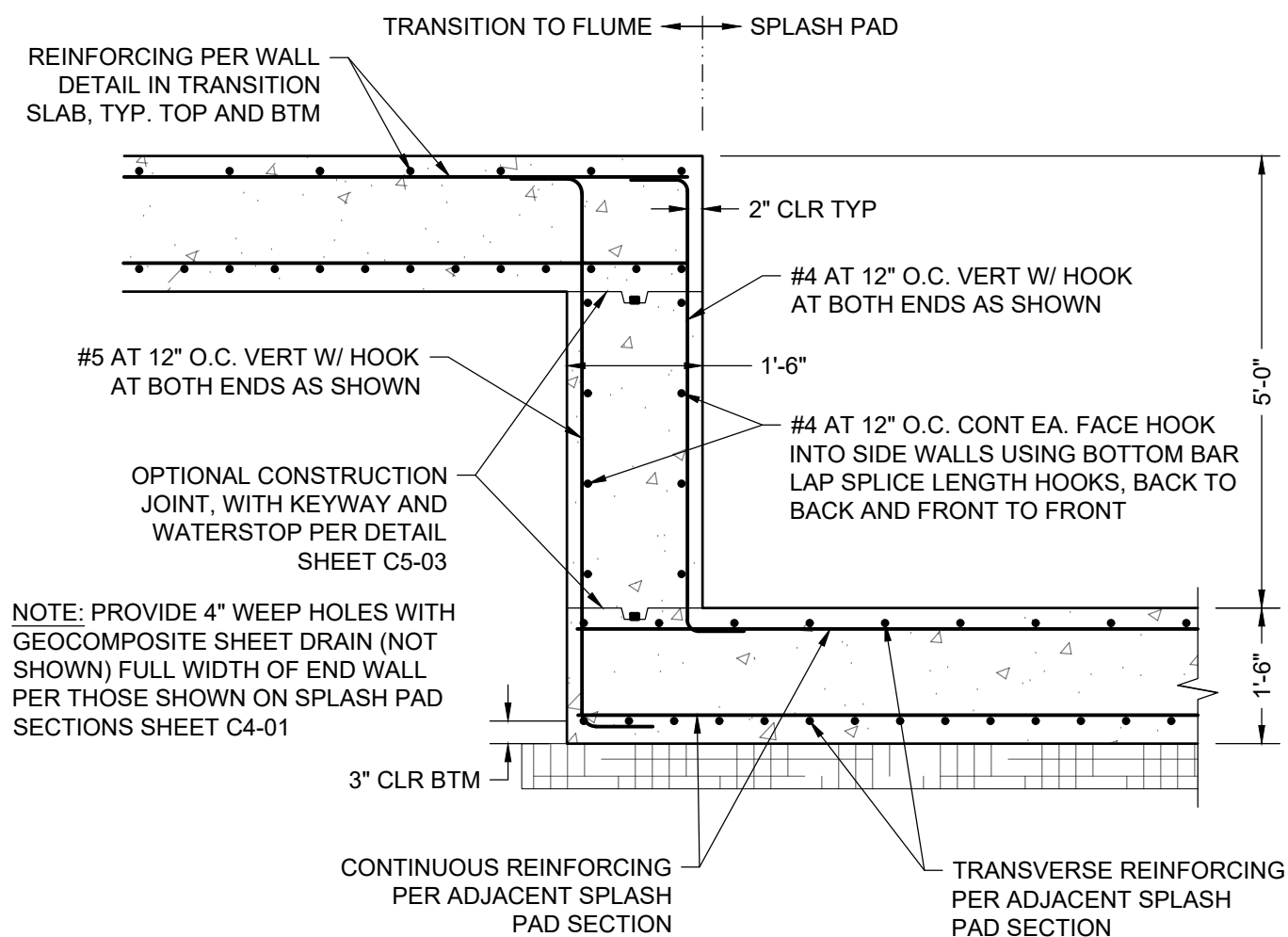
WALL REINFORCING LAYOUT DETAIL

SCALE: 6" = 1'



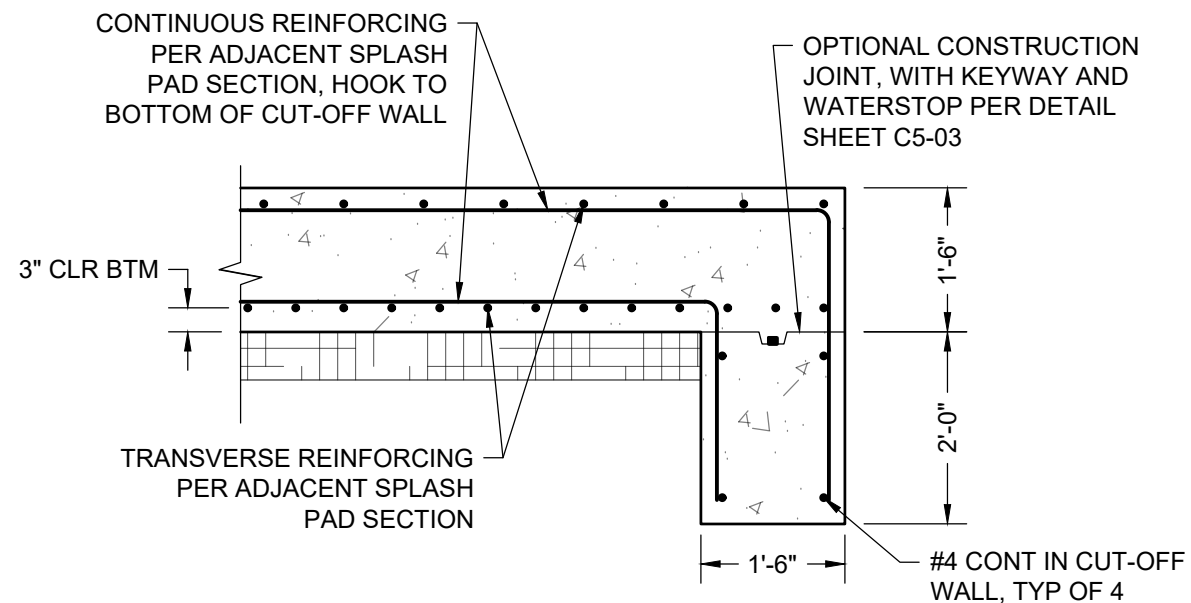
SPLASH PAD WING WALL SECTION

SCALE: 6" = 1'



SPLASH PAD END WALL SECTION

SCALE: 6" = 1'



SPLASH PAD CUT-OFF WALL SECTION

SCALE: 6" = 1'



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS

△		
3		
2		
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NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

**ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND**

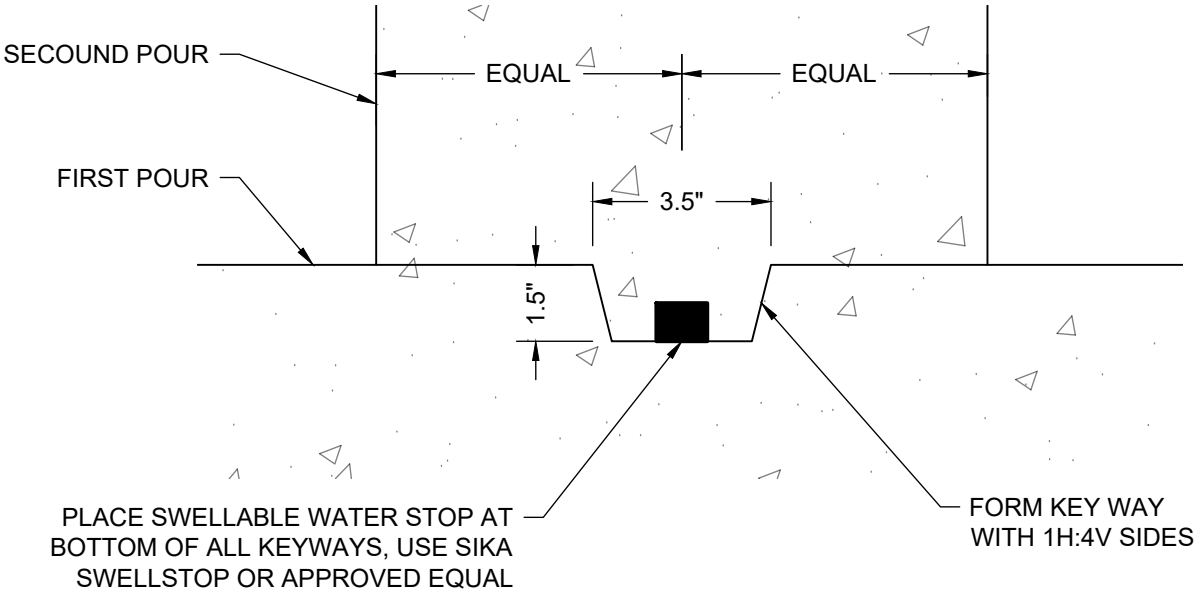
CANYON LAKES RANGER DISTRICT

DRAWING TITLE

**SPLASH PAD WALL
DETAILS**

DATE 08/12/2020	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO.
DRAWN P.FLEISCHMANN	C5-02
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 22 OF 23

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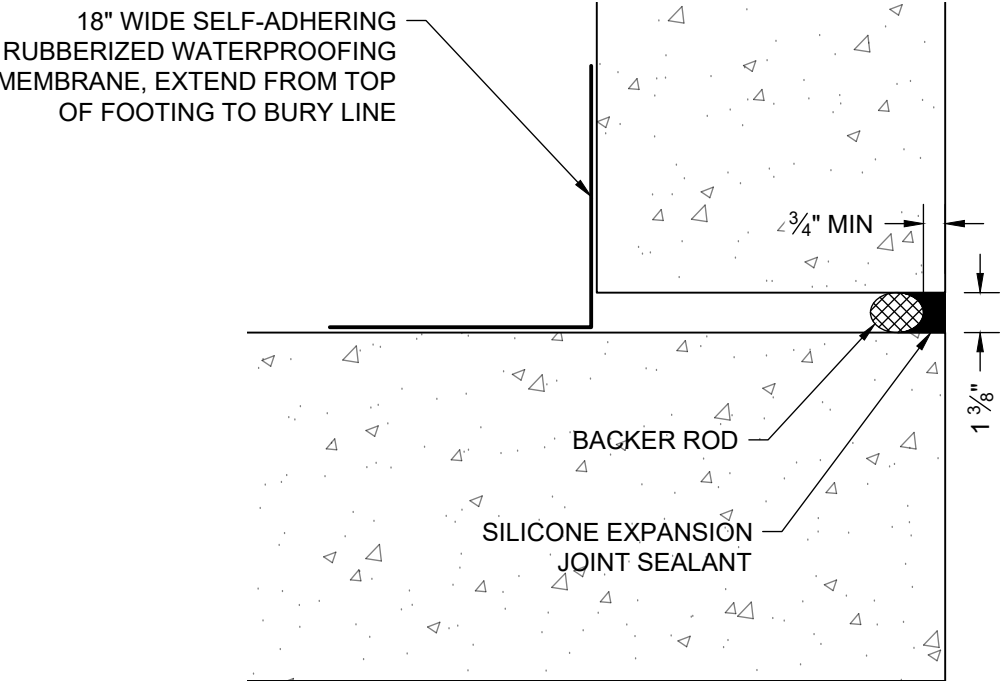
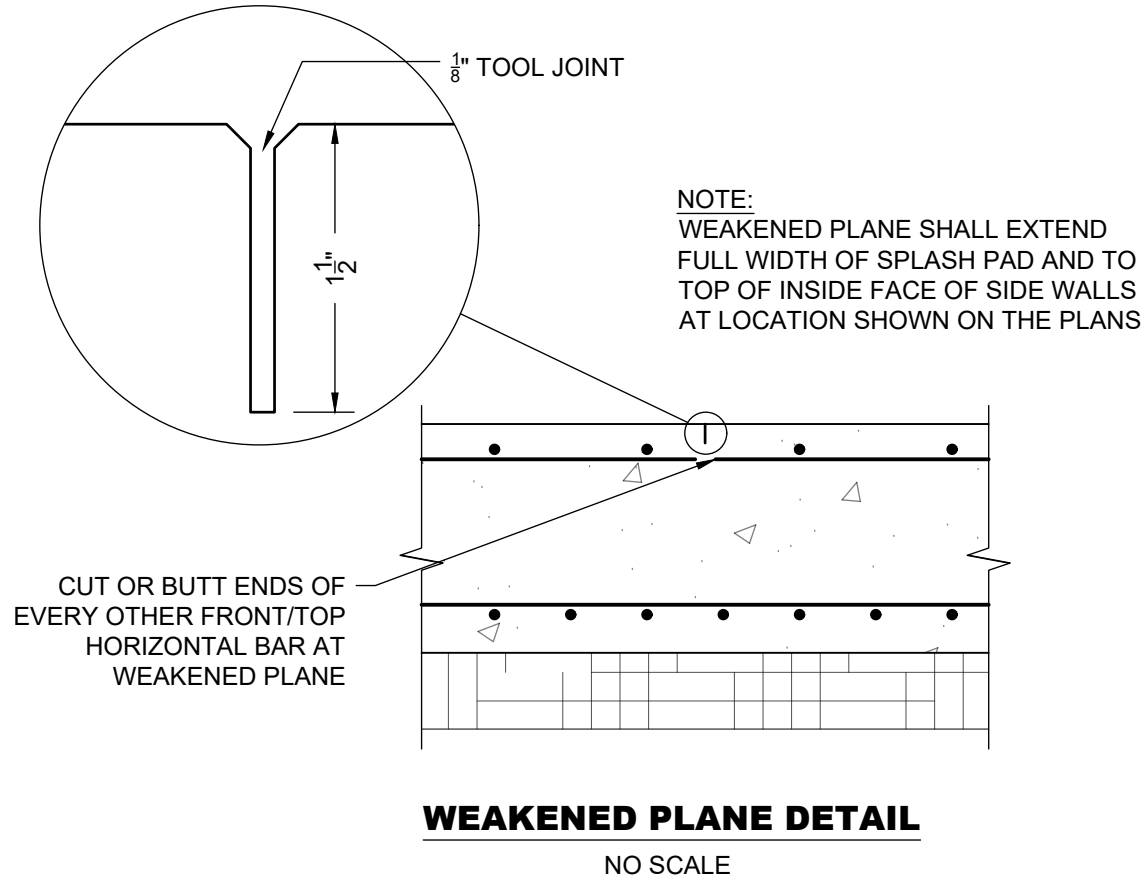


- NOTES:
- 1. KEYWAY WITH WATER STOP SHALL BE USED AT ALL CONSTRUCTION JOINTS.
 - 2. CONSTRUCTION JOINTS SHALL BE PLANNED IN ADVANCE OF CONCRETE PLACEMENT.
 - 3. CONSTRUCTION JOINTS MAY REPLACE CONTROL JOINTS (WEAKENED PLANES) SHOWN ON THE PLANS.
 - 4. NO UNPLANNED COLD JOINTS SHALL BE ALLOWED. THESE ARE DEFINED AS THE FIRST POUR REACHING INITIAL SET OR MORE THAN 3 HOURS ELAPSED BEFORE SECOND POUR.

CONSTRUCTION JOINT DETAIL
NO SCALE

REBAR BEND AND SPLICE DIMENSIONS					
BAR SIZE	180 DEG BEND EXTENSION, IN	90 DEG BEND EXTENSION, IN	BEND INSIDE DIAMTER, IN	BOTTOM BAR LAP SPLICE LENGTH, IN	TOP BAR LAP SPLICE LENGTH, IN
3	2.5	4.5	2.3	40	52
4	2.5	6.0	3.0	53	69
5	2.5	7.5	3.8	66	86
6	3.0	9.0	4.5	80	130
7	3.5	10.5	5.3	93	151
8	4.0	12.0	6.0	133	172

- NOTES:
- 1. DIMENSIONS DETERMINED PER AASHTO LRFD BRIDGE DESIGN SPECIFICATION, EIGHTH EDITION, SECTION 5.10
 - 2. ALL SPLICE LENGTHS BASED ON EPOXY COATED DEFORMED REINFORCING STEEL.
 - 3. LAP SPLICES ARE CLASS B.
 - 4. SPLICED BARS SHALL BE IN CONTACT WITH EACH OTHER.
 - 5. TOP BARS ARE THOSE WITH MORE THAN 12" OF FRESH CONCRETE PLACED BELOW.
 - 6. BOTTOM BARS ARE THOSE NOT DEFINED AS TOP BARS.
 - 7. SPLICES SHALL BE STAGGERED SO AS TO NOT OCCUR AT SAME LOCATION IN ADJACENT BARS.
 - 8. BENDS SHALL BE SMOOTH AND NOT CREATED BY HEATING BARS.
 - 9. CONTRACTOR MAY SUBSTITUTE MECHANICAL SPLICE IN LIEU OF BAR LAPS. EPOXY PROTECTION SHALL BE PROVIDED REGARDLESS OF METHOD. SUBMIT MATERIAL DATA FOR APPROVAL PRIOR TO USE.



- NOTES:
- JOINT SEALANT SHALL BE ON EXPOSED SIDE OF JOINT, ACROSS TOP AND DOWN BACK TO TOP OF MEMBRANE.
 - MEMBRANE SHALL BE ON BURIED SIDE OF JOINT



United States Department of Agriculture
Forest Service

(R02)
ROCKY MOUNTAIN REGION

STAMPS, LOGOS, AND SEALS		
1		
2		
3		
4		
NO.	REVISION / ISSUE	DATE

PROJECT NAME

**GRAND DITCH
FISH BARRIER**

ARAPAHO ROOSEVELT
NATIONAL FORESTS AND
PAWNEE NATIONAL
GRASSLAND

CANYON LAKES RANGER DISTRICT

DRAWING TITLE

SPLASH PAD DETAILS

DATE 01/20/2021	ARCHIVE NO.
DESIGNER P.FLEISCHMANN	DRAWING SHEET NO. C5-03
DRAWN P.FLEISCHMANN	
CHECKED D.CENDERELLI	
PROJECT NO. WTR-17-0210-001	SHEET 23 OF 23

OFFICE OF THE SECRETARY OF STATE
OF THE STATE OF COLORADO

CERTIFICATE OF FACT OF GOOD STANDING

I, Jena Griswold, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

COLORADO TROUT UNLIMITED

is a

Nonprofit Corporation

formed or registered on 03/01/1983 under the law of Colorado, has complied with all applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 19871510552 .

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 06/24/2021 that have been posted, and by documents delivered to this office electronically through 06/25/2021 @ 16:54:04 .

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this official certificate at Denver, Colorado on 06/25/2021 @ 16:54:04 in accordance with applicable law. This certificate is assigned Confirmation Number 13262848 .



Jena Griswold

Secretary of State of the State of Colorado

*****End of Certificate*****

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's Web site, <http://www.sos.state.co.us/biz/CertificateSearchCriteria.do> entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, <http://www.sos.state.co.us/> click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."

Attachment 4-CONSTRUCTION COST ESTIMATE BREAKDOWN

CONTRACTOR - GOVERNMENT ESTIMATE						ADDRESS					
CONTRACT FOR (Work to be performed) Grand Ditch Fish Barrier							PROPOSED CONTRACT PRICE				
PURCHASE REQUEST NUMBER			PROJECT NUMBER				WORK LOCATION				
LINE NO	ITEM	UNIT OF MEASURE	Est QUANTITY	MATERIAL COST		LABOR COSTS			OTHER DIRECT COSTS	LINE TOTAL	Unit cost with overhead and profit
				UNIT	TOTAL	MANHOUR MANDAYS hrs/day	AVERAGE RATE Per/Hr	TOTAL			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
15101	Mobilization	LS	1		\$0.00			\$0.00	\$86,110.20	\$86,110.20	
15201	Construction survey and staking, Method I, Tolerance A	LS	1		\$0.00	80.00	\$ 170.00	\$13,600.00	\$1,000.00	\$14,600.00	
15713	Soil Erosion, Pollution Control & Dewatering	LS	1	\$18,000.00	\$18,000.00	400.00	\$ 30.00	\$12,000.00	\$5,000.00	\$35,000.00	
20101	Clearing, Grubbing and Topsoil stripping	LS	1	\$3,000.00	\$3,000.00	40.00	\$ 30.00	\$1,200.00	\$5,000.00	\$9,200.00	
20405	Channel Excavation, tolerance class C	CY	3,400		\$0.00	500.00	\$ 50.00	\$25,000.00	\$13,000.00	\$38,000.00	
20411	Rock Excavation	CY	1,500		\$0.00	300.00	\$ 50.00	\$15,000.00	\$18,000.00	\$33,000.00	
20417	Embankment Construction, Compaction Method 2	CY*	110	\$2.00	\$220.00	160.00	\$ 30.00	\$4,800.00	\$5,000.00	\$10,020.00	
20901	Structure Excavation	CY	340		\$0.00	300.00	\$ 50.00	\$15,000.00	\$6,000.00	\$21,000.00	
20903	Structure Backfill	CY*	140	\$45.00	\$6,300.00	180.00	\$ 30.00	\$5,400.00	\$3,000.00	\$14,700.00	
25101	Placed riprap, Class 2 (Site Generated)	CY*	480	\$10.00	\$4,800.00	700.00	\$ 30.00	\$21,000.00	\$2,000.00	\$27,800.00	
25102	Placed riprap, Class 3 (Site Generated)	CY*	100	\$10.00	\$1,000.00	300.00	\$ 30.00	\$9,000.00	\$2,000.00	\$12,000.00	
25803	Reinforced concrete retaining wall and splash pad	CY*	110	\$500.00	\$55,000.00	1,300.00	\$ 50.00	\$65,000.00	\$20,000.00	\$140,000.00	
62404	Placing Conserved Topsoil, 2 inch max depth	LS	1		\$0.00	24.00	\$ 30.00	\$720.00	\$2,000.00	\$2,720.00	
62501	Hydraulic Seeding and Erosion Control	SY*	1,700	\$1.50	\$2,550.00	32.00	\$ 30.00	\$960.00	\$2,000.00	\$5,510.00	
Option 1	-										
1	Hauling of Excavation Spoils	CY-MI	129,000		\$0.00	712.00	\$ 30.00	\$21,360.00	\$6,500.00	\$27,860.00	
Option 2	-										
2	Stockpile Excavation Spoils	CY	4,300		\$0.00	80.00	\$ 30.00	\$2,400.00	\$1,200.00	\$3,600.00	
Option 3	-										
25103	Placed riprap, Class 3 (Commercial Source)	CY	100	\$75.00	\$7,500.00	200.00	\$ 30.00	\$6,000.00	\$2,500.00	\$16,000.00	
Total											
				\$90,870.00		\$210,040.00		\$176,610.20	\$477,520.20	\$588,304.89	

INSTRUCTIONS FOR COMPLETING CONSTRUCTION COST ESTIMATE BREAKDOWN

Col 1 Item. Description of materials required, work to be done, special equipment needed, etc. Breakdown should be in sufficient detail to permit itemizing of all direct costs.

Col 2 Units of Measure. Description of the unit in which each item is to be estimated (examples - square yards - SY, cubic yards - CY, square feet - SF, linear feet - LF, board feet - BF, each - EA, pound - LB).

Col 3 Quantity. Contractor's estimate of quantity required in terms of unit of measure (column 2). Items and units of measure will be furnished by the Government. Quantity estimates will be furnished by the Government only when it is anticipated that a unit the contractor is responsible for determining quantity estimates. price contract will be issued. Otherwise,

Col 4 and 5 Material Costs. Enter unit cost (Col 4) of the material to be supplied and total cost (col 5); for item listed in column 1.

Col 6, 7 and 8 Labor Costs. Enter in col 6 the estimated number of manhours or mandays needed to perform the work listed in column 1.

Col 9 Other Direct Costs. Enter estimated costs of special equipment and other items (listed in column 1) which are special to the contract and of significant dollar value.

Col 10 Line Total. Self-explanatory.

NOTE: In addition to other totals derived on various pages, the grand total of column 10, plus overhead and profit will be shown on the last page as follows

TOTAL MATERIAL COSTS			\$90,870.00	
TOTAL LABOR COSTS			\$210,040.00	
TOTAL OTHER DIRECT COSTS			\$176,610.20	
	TOTAL DIRECT COSTS		\$477,520.20	Total does not include option 2 or 3 as these are possibly not needed or replace a line item already counted
OVERHEAD		12%	57302.424	
	SUBTOTAL		\$534,822.62	
PROFIT		10%	53482.2624	
	TOTAL PRICE		\$588,304.89	

DATE

FIRM NAME

TITLE

BY

(Signature)

INSTRUCTIONS TO OFFERORS

1. The purpose of this form is to provide a standard format by which the offeror submits to the Government a summary of incurred and estimated costs (and attached supporting information) suitable for detailed review and analysis. Prior to the award of a contract resulting from this proposal the offeror may be required to submit a certificate of current cost or pricing data

2. In addition to the specific information required by this form, the offeror is expected, in good faith, to incorporate in and submit with this form any additional data, supporting schedules, or substantiation which are reasonable required for the conduct of an appropriate review and analysis in the light of the specific facets of this procurement. For effective negotiations, it is essential that there be a clear understanding of

- The existing, verifiable data.
- The judgmental factors applied in projecting from known data to the estimate, and
- The contingencies used by the offeror in his proposed price.

In short, the offeror's estimating process itself needs to be disclosed.

3. When attachment of supporting cost or pricing data to this form is impracticable, the data will be described (with schedules as appropriate), and made available to the contracting officer his authorized representative upon request.

4. By submission of this proposal the offeror grants to the contracting officer, or his authorized representative, the right to examine, for the purpose of verifying the cost or pricing data submitted, those books, records, documents and other supporting data which will permit adequate evaluation of such cost or pricing data, along with the computations and projections used therein. This right may be exercised in connection with any negotiations prior to contract award.

David Nickum
Executive Director
Colorado Trout Unlimited



June 29, 2021

Colorado Water Conservation Board
Colorado Water Plan grants program
Via email: waterplan.grants@state.co.us

Dear CWCB members & staff:

Colorado Trout Unlimited is the designated trustee for the Long Draw Reservoir Mitigation Trust, established with \$1.25 million in seed money from the Water Supply and Storage Company. These funds were provided in meeting mitigation requirements for the federal land use authorization for Long Draw Reservoir and are reserved for purposes of the Poudre Headwaters Restoration project. The funds are available for engineering, barrier construction, non-native fish removal, and other costs related to the restoration of a Greenback cutthroat trout metapopulation in the headwaters reaches of the Cache la Poudre river.

As Trustee, CTU is writing to confirm that the Long Draw Reservoir Mitigation Trust will provide at least \$300,000 toward the Grand Ditch Fish Barrier installation as part of the Poudre Headwaters Restoration project. The trust will provide more funding as needed if costs for the project increase above current budget. We are pleased to support this effort to advance the project for which the Trust was established. We appreciate the Colorado Water Conservation Board's consideration of a matching grant for the project under the Colorado Water Plan grant program.

Sincerely,

A handwritten signature in blue ink that reads "David Nickum".

David Nickum

Request for Taxpayer Identification Number and Certification

► Go to www.irs.gov/FormW9 for instructions and the latest information.

Give Form to the
requester. Do not
send to the IRS.

Print or type.
See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Colorado Trout Unlimited	
2 Business name/disregarded entity name, if different from above	
3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input checked="" type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ► Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ►	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) 1 Exemption from FATCA reporting code (if any) A <i>(Applies to accounts maintained outside the U.S.)</i>
5 Address (number, street, and apt. or suite no.) See instructions. 1536 Wynkoop Street, Suite 320	Requester's name and address (optional)
6 City, state, and ZIP code Denver, CO 80202	
7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.


Social security number											
				-				-			
or											
Employer identification number											
8	4		-	0	6	2	8	1	1	3	

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ► 	Digitally signed by David Nickum DN: cn=David Nickum, o=Colorado Trout Unlimited, ou, email=david.nickum@tr.org, c=US Date: 2021.06.25 16:57:21 -0600	Date ► 6/25/21
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the instructions for Part II for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships*, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual	Individual/sole proprietor or single-member LLC
• Sole proprietorship, or	
• Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	
• LLC treated as a partnership for U.S. federal tax purposes,	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or	
• LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/Businesses and clicking on Employer Identification Number (EIN) under Starting a Business. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

***Note:** The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Visit www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.