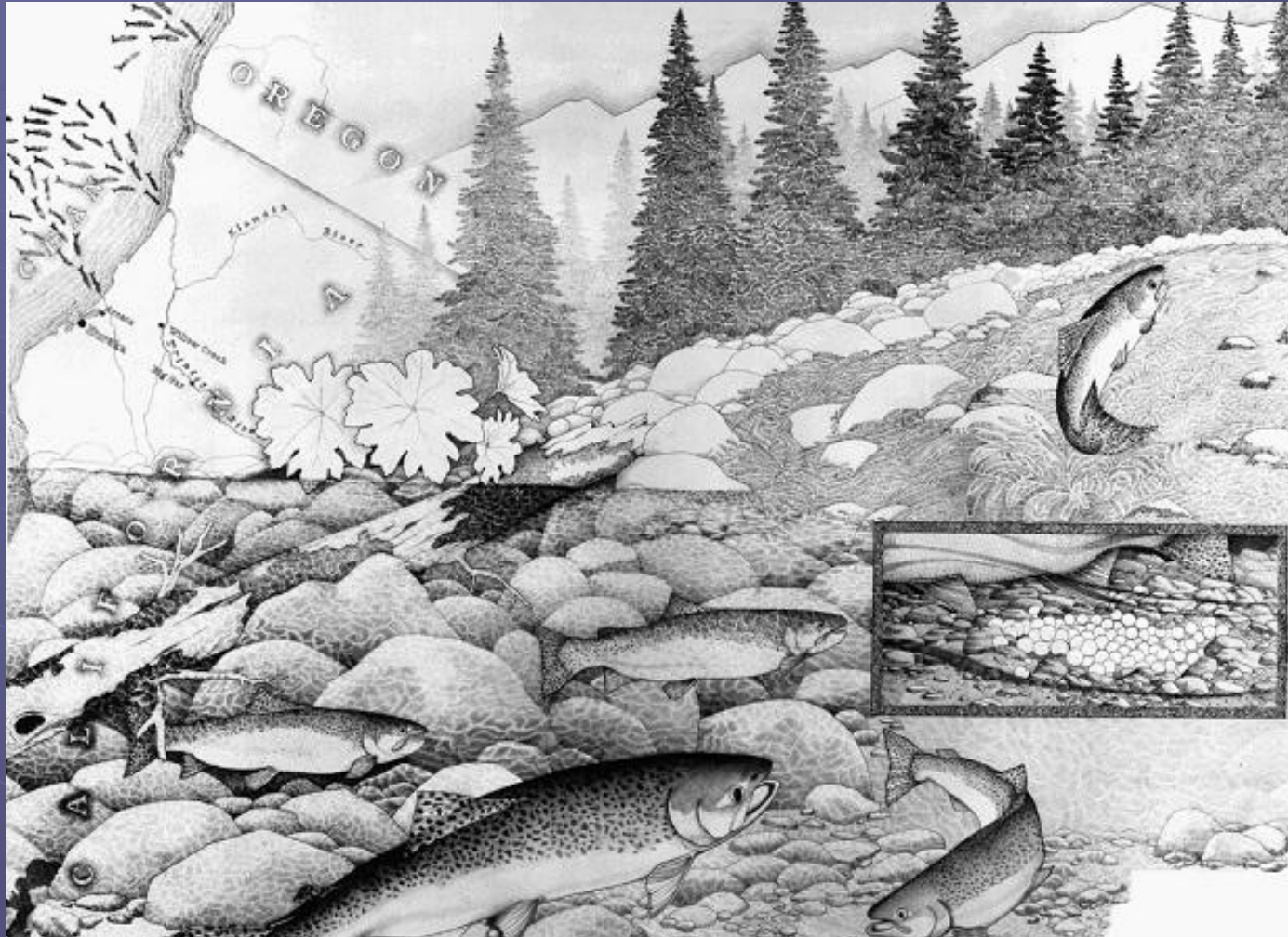


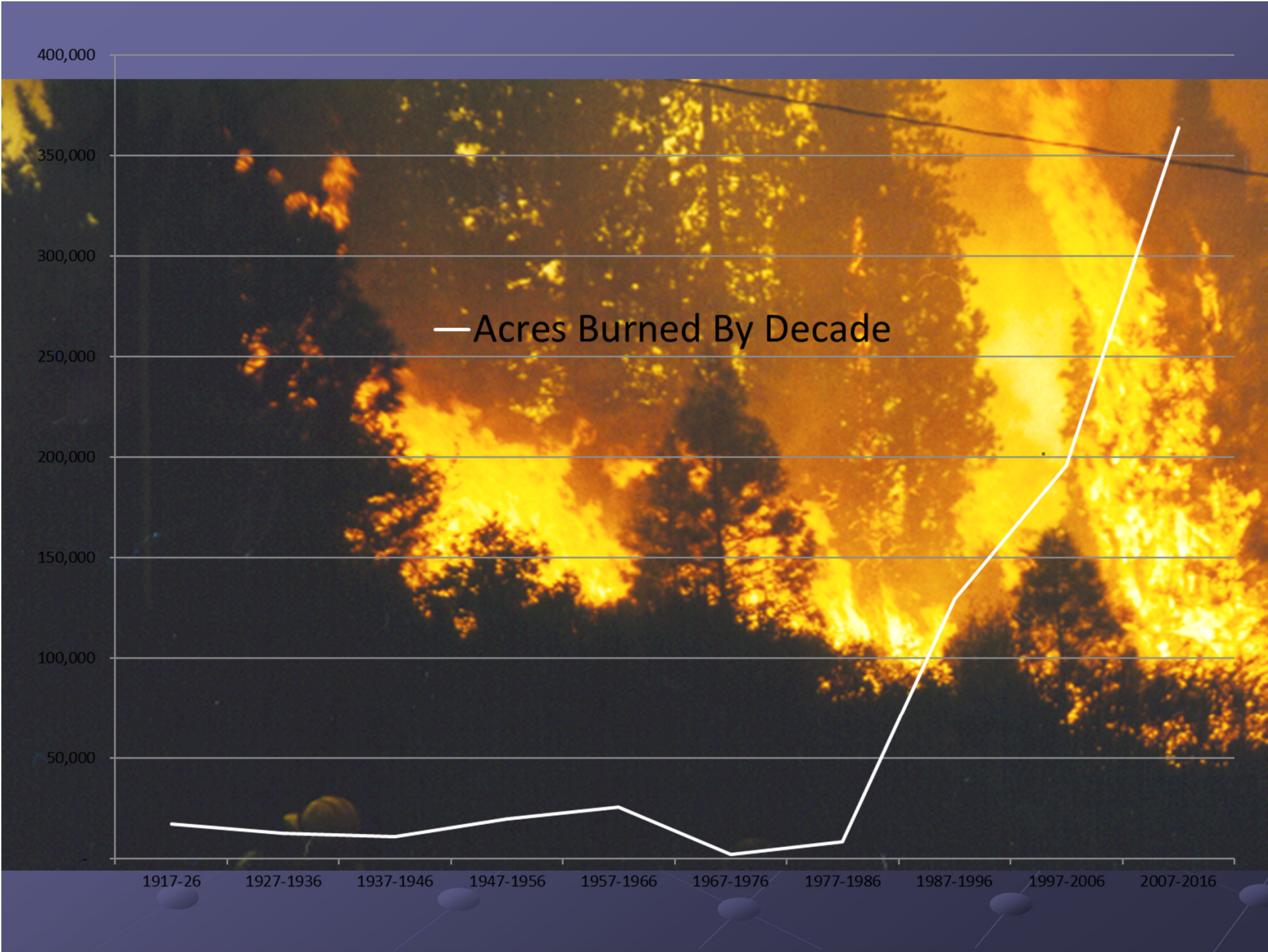


Five Counties Salmonid Conservation Program



Watershed Working Group Meeting, July 27th, 2022

mlancaster@5counties.org



Deadwood Carr Fire/Roads Restoration

- Deadwood Brown Bear Mine Roads Hydrologic Disconnect and Landings in Tunnel Gulch Removal- Completed
- Deadwood County Road Stream Crossing Upgrades- In Progress will be completed in August, 2022
- BLM Roads Hydrologic Disconnect (Phase 1)- Completed 2020
- Riparian Reforestation- Phase I (75,000 Seedlings) Completed November 2021, Phase 2 (25,000 Seedlings)- Approximately Jan-Feb 2023

Future Work

- BLM Road Decommission (Thorn Gulch)
- BLM Road Stream Crossing Upgrades
- Brown Bear Mine Landings in Mill Gulch Removal

Brown Bear Mine, Deadwood Creek Post Carr Fire Sediment Reduction

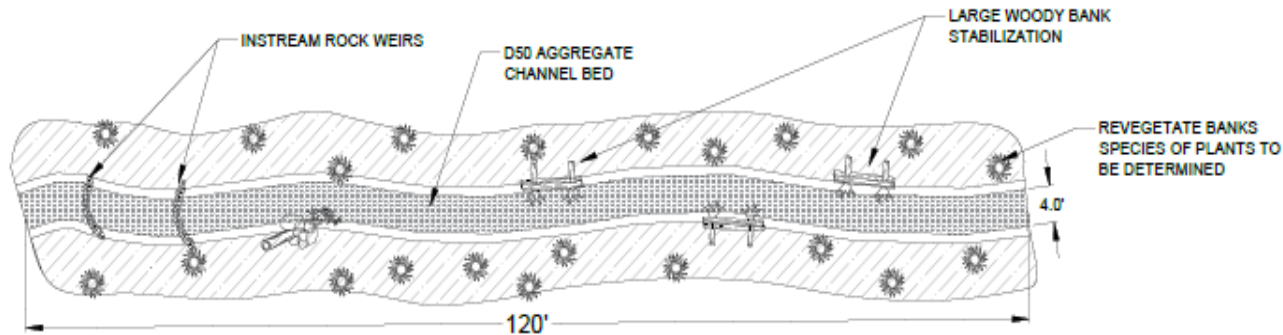


Tunnel Gulch Watershed- 9 Rocked Stream
Crossings/Critical Dips and 24 Rolling Dips Installed

Brown Bear Mine Post Carr Fire Sediment Reduction

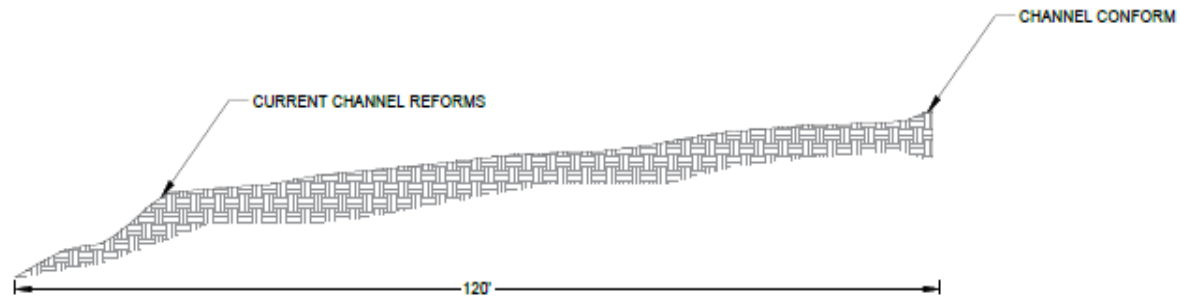


Tunnel Gulch Landing in Stream
Removed ~ 1,500 yd³



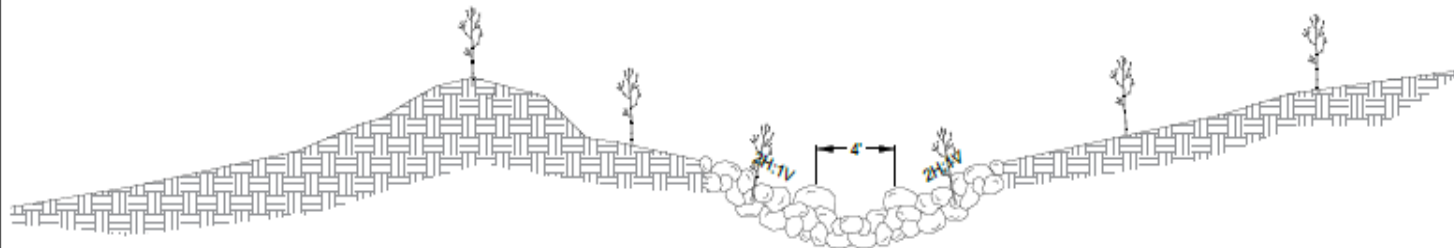
CHANNEL PLAN VIEW

(NTS)



CURRENT CHANNEL PROFILE

(NTS)



CHANNEL CROSS SECTION

(NTS)

5 COUNTIES SALMONID
CONSERVATION PROGRAM

4110 Sacramento Blvd.
Sacramento, CA 95820
916.445.2400
www.5counties.org

Plan Prepared by



The user of these plans and specifications shall be responsible for the design and for obtaining all necessary permits and approvals from the appropriate regulatory agencies. The user shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies. The user shall be responsible for obtaining all necessary permits and approvals from the appropriate regulatory agencies.

BROWN BEAR MINE
LEWISTON, CA

Revisions	
1	
2	
3	
4	
5	

Project Engineer: 022	Est: 000
Project Manager: 022	
Date: 7.1.21	Scale: 1/8" = 1'-0"
Sheet: 000	Sheet Size: 24" x 36"

Deadwood Road, Trinity County DOT

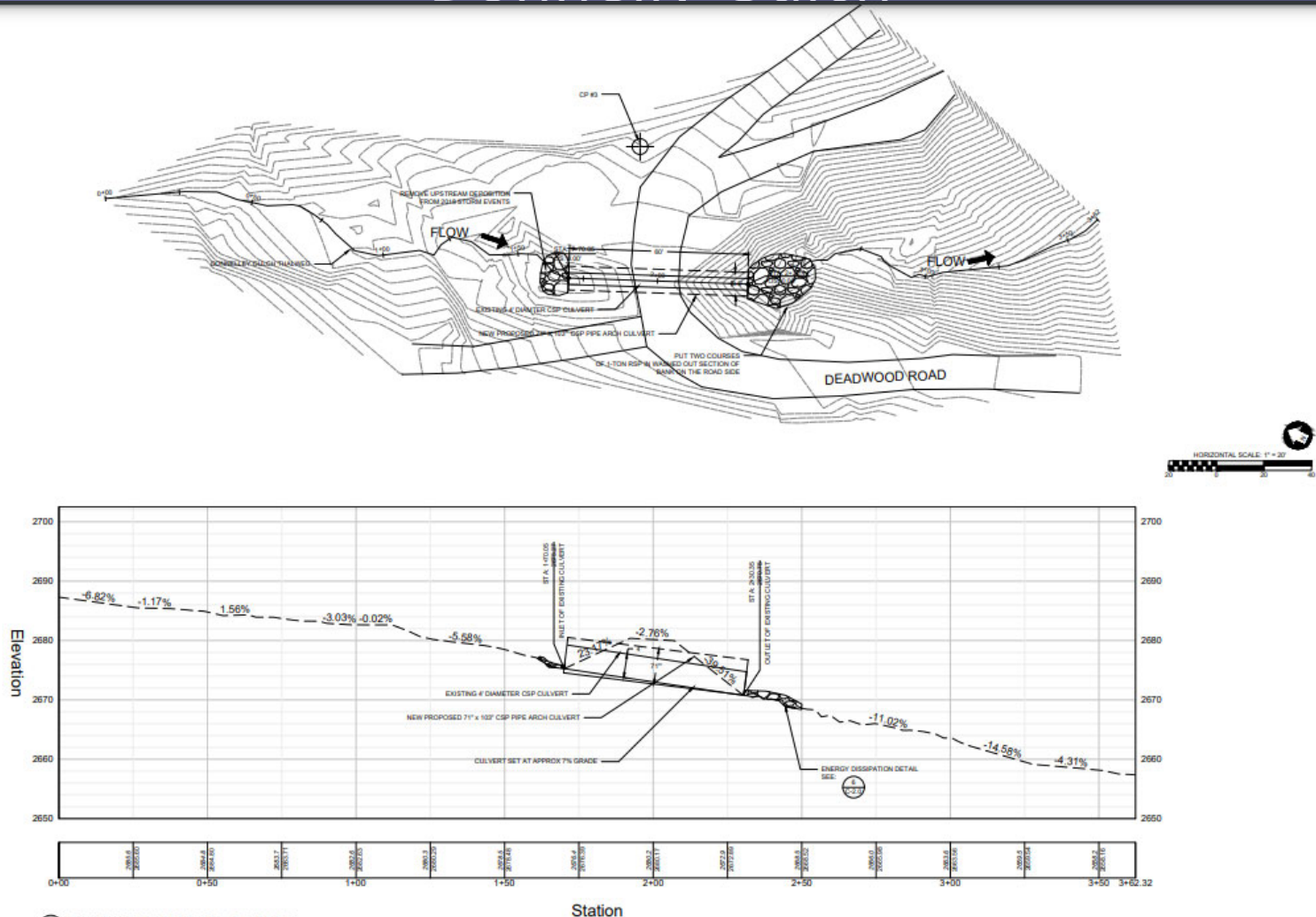


Site 1483- Upgrade Existing 24" CMP Culvert With
71" x 47" Arch CMP, RSP Inlet & Outlet and Install
Critical Dip

Deadwood Road, Trinity County DOT Donnelly Gulch




Deadwood Road, Trinity County DOT Donnelly Gulch




③ DONNELLY GULCH PROFILE STA: 0+00 TO 3+62

Site 1490- Upgrade Existing 48" CMP Culvert With 71" x 103" Arch CMP, Remove Flood Deposit at Inlet, RSP Inlet & Outlet and Install Critical Dip





 The use of these plans and specifications shall be restricted to the original site for which they were prepared. This publication or any other work published in connection therewith is prohibited.



DEADWOOD ROAD SEDIMENT REDUCTION PROJECT
 DEADWOOD RD., LEWISTON CA

Revision	
▲	#
▲	#
▲	#
▲	#
▲	#

Project Engineer: ARL IBB
 Project Manager: SL
 Date: 6/28/2021
 Scale: P&R PLAN
 Sheet Size: 24" x 36"

DONNELLY GULCH PLAN & PROFILE
C-1.3

Deadwood Road Trinity County DOT Mill Gulch



Deadwood Road Trinity County DOT Mill Gulch



Deadwood Road Trinity County DOT Mill Gulch



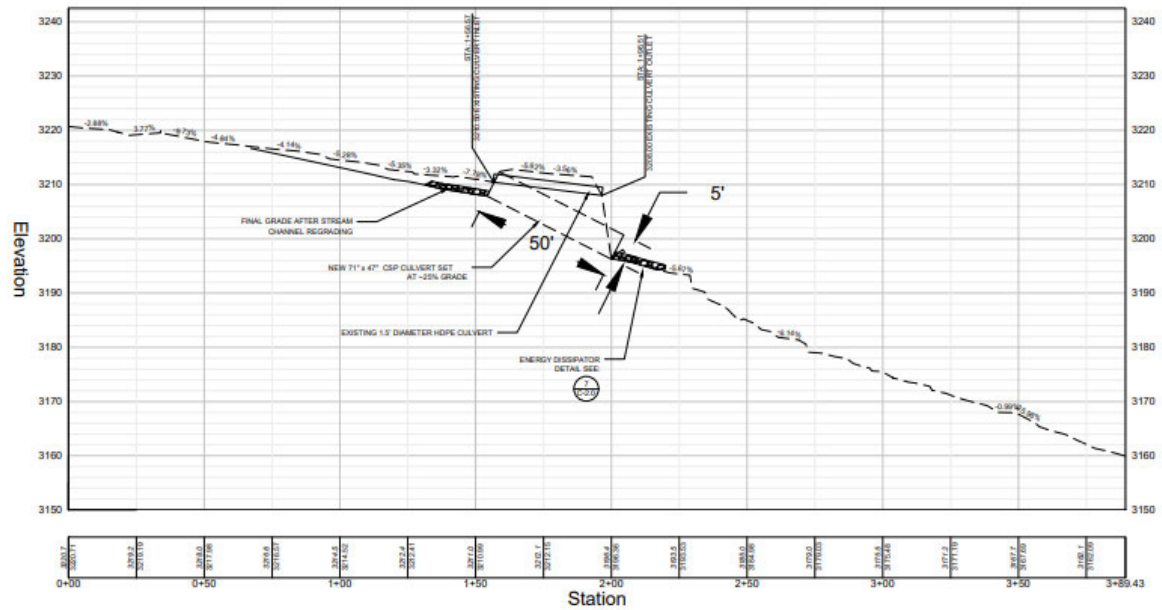
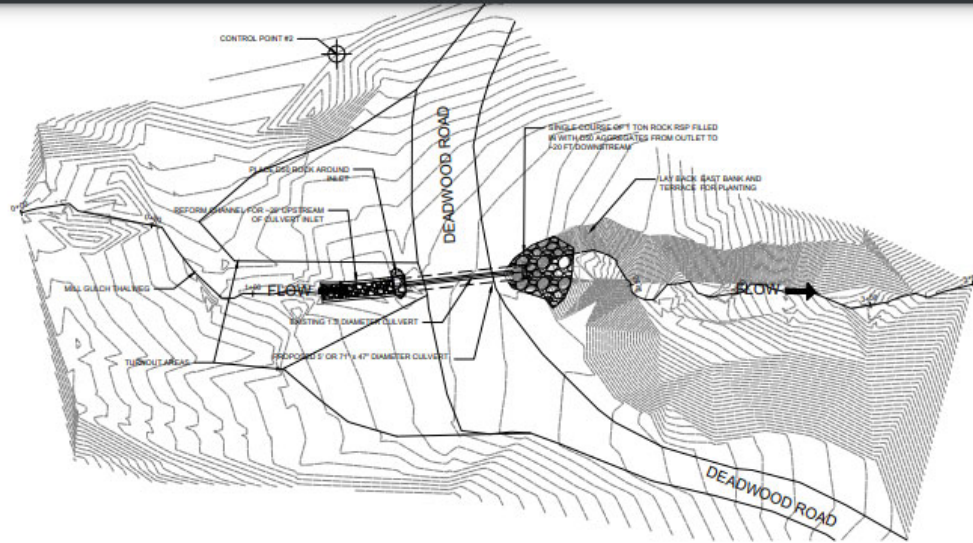
Deadwood Road Trinity County DOT Tunnel Gulch



Deadwood Road Trinity County DOT Tunnel Gulch



Deadwood Road Trinity County DOT Mill Gulch



4 MILL GULCH PROFILE STA: 0+00 TO 3+89
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

5 COUNTIES SALMONID CONSERVATION PROGRAM

Project Manager: [Signature]

DEADWOOD ROAD SEDIMENT REDUCTION PROJECT
DEADWOOD ROAD LEWISTON CA

MILL GULCH PLAN AND PROFILE
1.4

UNIVERSITY OF CALIFORNIA
LEWISTON, CA
www.ucanr.org

PROJECT ENGINEER: APR. 2011
PROJECT MANAGER: ME
DATE: 6/25/11 SCALE: PER PLAN
SHEET SIZE: 24" x 36"

DIGALERT
DIAL TOLL FREE: 811 OR (707) 424-4100
AT LEAST TWO DAYS BEFORE YOU DIG
UNIVERSITY OF CALIFORNIA

Deadwood Road Trinity County DOT Tunnel Gulch



Site 1499- Upgrade
Existing 48" HDPE
Culvert With 71" x 47"
Arch CMP, RSP Inlet &
Outlet and Install
Critical Dip

BLM SITE 300.7



BLM SITE 300.6



BLM SITE 300.6



BLM SITE 300.6



Deadwood Reforestation



East Weaver Creek Dam Removal

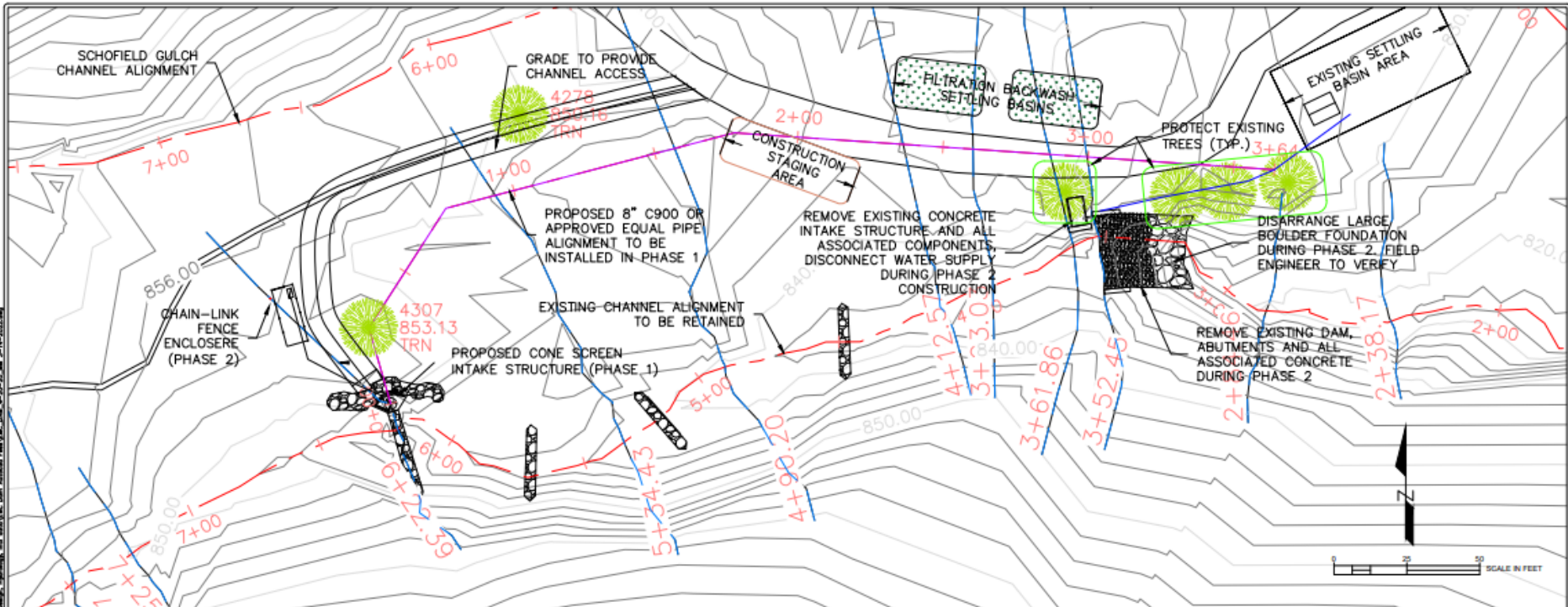


East Weaver Creek Dam Removal

Phase 1 & 2A
Scheduled for Sept/Oct 2022



East Weaver Creek Dam Removal



NOTE:
 EXCESS SEDIMENTS MAY BE USED FOR CONSTRUCTION DOWNSTREAM ON THE EAST BRANCH EAST WEAVER CREEK CULVERT REPLACEMENT PROJECT. EXCESS SEDIMENTS MAY ALSO BE SPREAD DOWNSTREAM OF THE DAM REMOVAL AT THE DIRECTION OF SUPERVISING ENGINEER.
 ALL OVER-MATERIAL MUST BE HAULD OFF.

EAST WEAVER DAM REMOVAL AND WCSD WATER INTAKE MODIFICATION PROJECT



NORTHWEST CALIFORNIA RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL
 FIVE COUNTIES SALMONID CONSERVATION PROGRAM
 P.O. BOX 2571 - GO HORSESHOE LANE - WEAVERVILLE, CA 96095



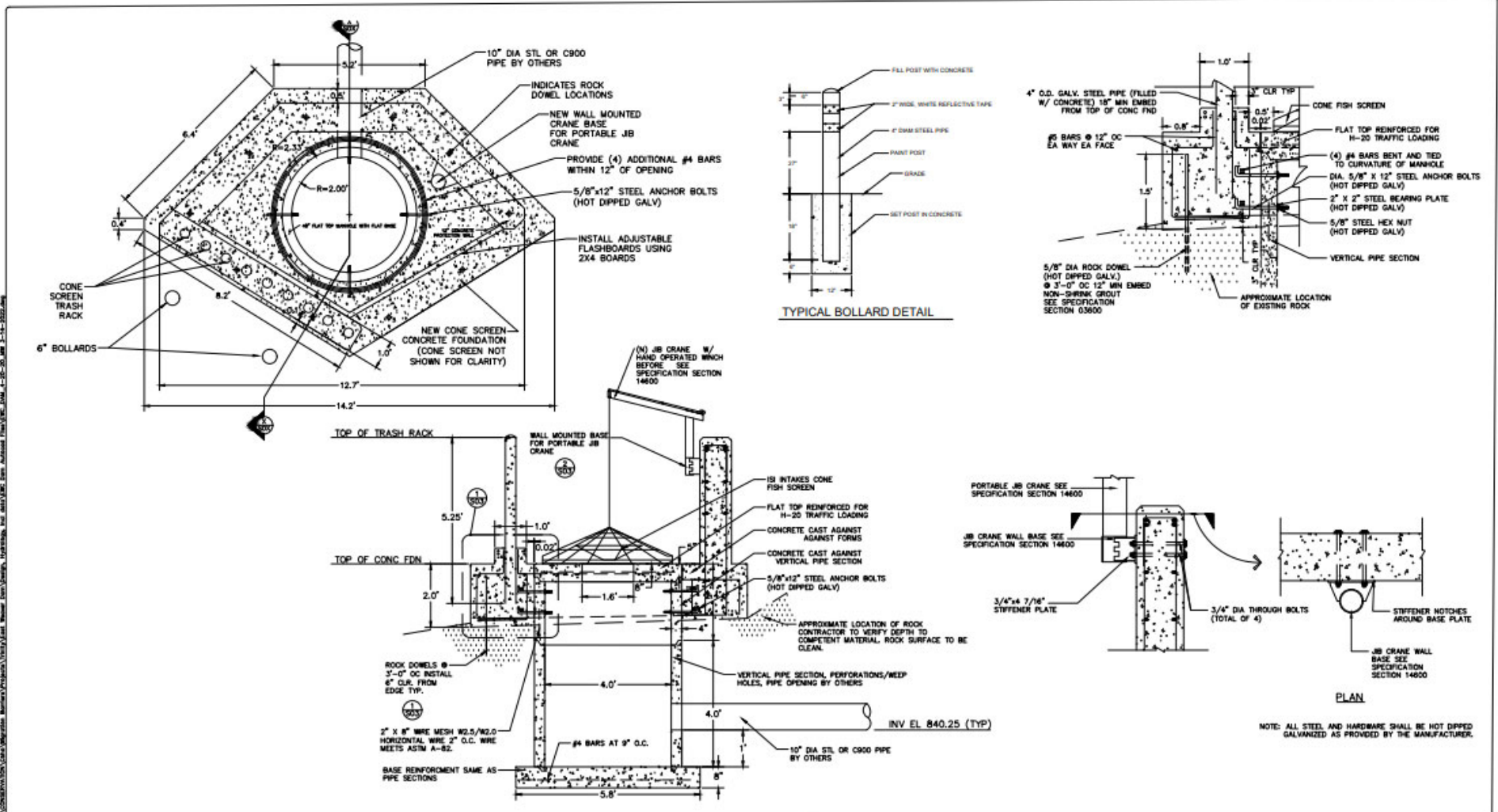
SH#	Rev	Date	By	Description	Appr'd

Design: ok, ak
 Drawn: ok, ak
 Checked: ak, ak
 Appr'd: ak, ak

GRADING PLAN AND PROFILE
 EAST WEAVER DAM
 WEAVERVILLE, CALIFORNIA

Scale	AS SHOWN
Date	3/14/22
Sheet	4 of 15

East Weaver Creek Dam Removal



NOTE: ALL STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED AS PROVIDED BY THE MANUFACTURER.

EAST WEAVER DAM REMOVAL AND WCSO WATER INTAKE MODIFICATION PROJECT

NORTHWEST CALIFORNIA RESOURCE CONSERVATION AND DEVELOPMENT COUNCIL FIVE COUNTIES SALMONID CONSERVATION PROGRAM



Sh#	Rev	Date	By	Description	App'd	Design	DR, AK
						Drawn	OK
						Checked	AK

INTAKE STRUCTURAL PLANS EAST WEAVER DAM

Sheet	AS SHOWN
Date	3/14/22

McKnight Ditch Water Conservation Monitoring



McKnight Ditch Water Conservation Monitoring

	used	meter reads		
07-01-2021	3,859,000 gal	3,859,000		
06-01-2021	3,030,260	3,555,974	.95	
05-01-2021	345,716	3,210,258	1.07	
	used/gal	reads	reads gal	Ac.
10-1-2020	262,128		3,210,258	
9-1-2020	262,128	3,210,258	2,948,130	.81
8-1-2020	524,256	2,948,130	2,423,874	1.62
7-1-2020	840,870	2,423,874	1,783,117	1.98
6-1-2020	840,870	1,783,117	935,247	2.62
5-1-2020	935,247	935,247	0	2.89
		0		

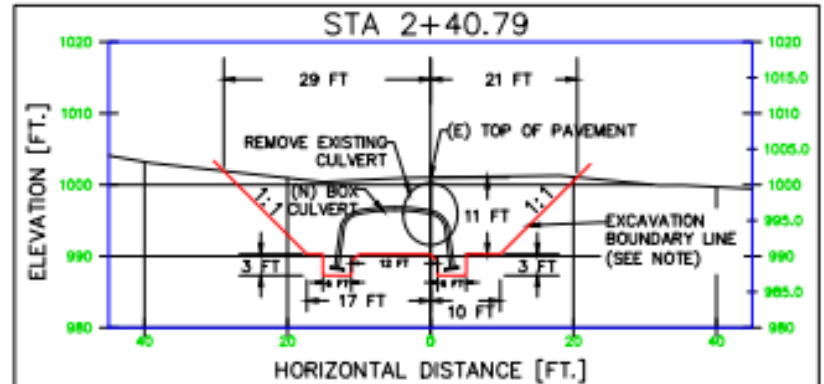
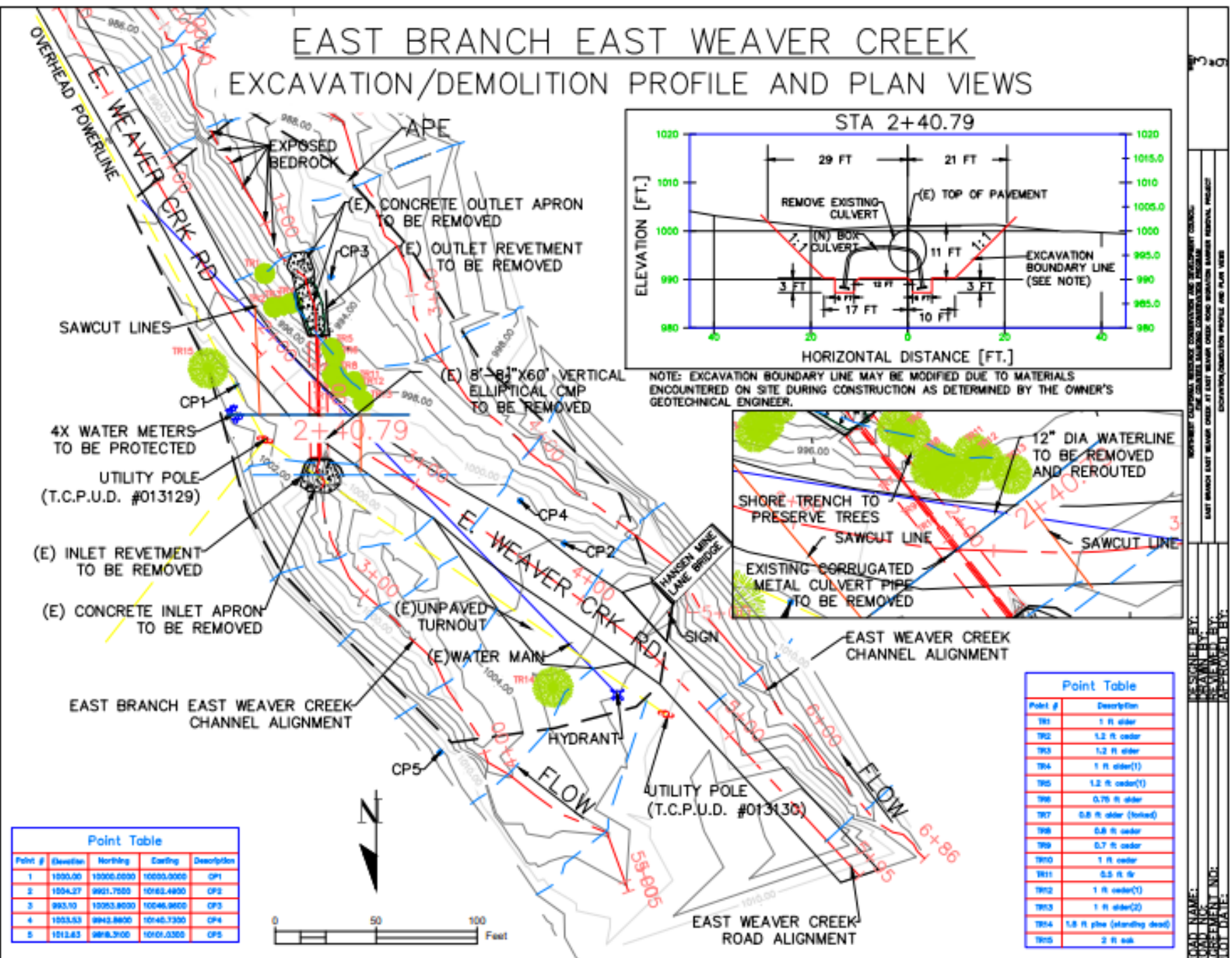
East Branch East Weaver Water Conservation/Forbearance



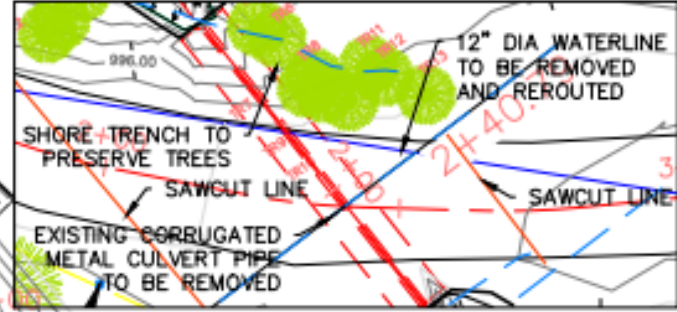
East Branch East Weaver Migration Barrier on East Weaver Creek Road



EAST BRANCH EAST WEAVER CREEK EXCAVATION/DEMOLITION PROFILE AND PLAN VIEWS



NOTE: EXCAVATION BOUNDARY LINE MAY BE MODIFIED DUE TO MATERIALS ENCOUNTERED ON SITE DURING CONSTRUCTION AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER.

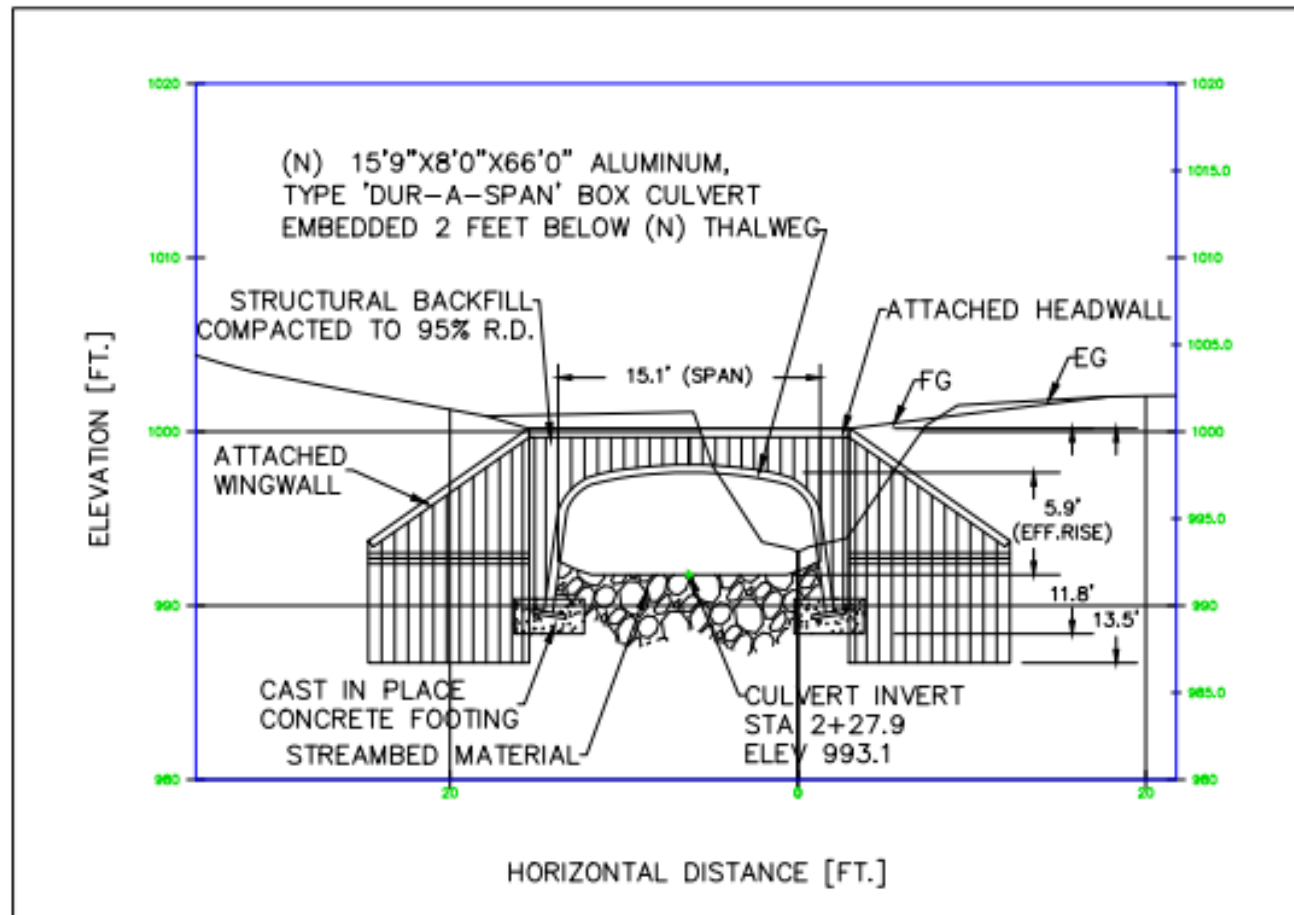


Point #	Elevation	Northing	Easting	Description
1	1000.00	10000.0000	10000.0000	CP1
2	1004.27	9921.7500	10162.4800	CP2
3	993.10	10063.8000	10046.9600	CP3
4	1003.53	9942.8800	10140.7300	CP4
5	1012.63	9916.3100	10101.0300	CP5

Point #	Description
TR1	1 ft cedar
TR2	1.2 ft cedar
TR3	1.2 ft cedar
TR4	1 ft cedar(1)
TR5	1.2 ft cedar(1)
TR6	0.75 ft cedar
TR7	0.8 ft cedar (broken)
TR8	0.8 ft cedar
TR9	0.7 ft cedar
TR10	1 ft cedar
TR11	0.5 ft fir
TR12	1 ft cedar(1)
TR13	1 ft cedar(2)
TR14	1.8 ft pine (standing dead)
TR15	2 ft oak

DESIGNER BY: [Name]
 CHECKED BY: [Name]
 DRAWN BY: [Name]
 REVIEWED BY: [Name]
 APPROVED BY: [Name]
 PROJECT: EAST BRANCH EAST WEAVER CREEK ROAD BRIDGE ROAD BRIDGE BARRIER REMOVAL PROJECT
 EXCAVATION/DEMOLITION PROFILE AND PLAN VIEWS

EAST BRANCH EAST WEAVER CREEK CULVERT CROSS SECTION AT INLET



INSTALLATION SPECIFICATIONS:

Installation of the Atlantic Industries Limited Dur-A-Span Structural Aluminum Plate open bottom box culvert (Model # DS-32B) shall be in accordance with manufacturer specifications.

Installation of Streambed Material, Rock Ribbons, and Rock Banklines shall be in accordance with Page 7 and shall not begin until structural backfill has been placed.

The Contractor must compact impervious material where erosion of backfill material may occur. This approach is particularly important at culvert inlets and outlets.

Minimum overhead height for normal highway loads for the Dur-A-Span Structural Aluminum Plate (Model # DS-32B) is 3-5 ft. Restrict heavy equipment travel over the culvert during construction.

Continuation of the standard pavement cross section (min. depth >0.2 ft) over the top of the Dur-A-Span Structural Aluminum Plate (Model # DS-32B) is essential to maintain pavement performance.

MATERIAL SPECIFICATIONS:

Structural backfill shall conform to 19-3.02 of Caltrans Standard Specifications, 2018.

Embankment backfill shall conform to Caltrans Standard Specifications, 2018 19-2.

Streambed Material, Rock Ribbons, and Rock Banklines shall be as specified on Page 7.

DESIGNED BY: [REDACTED]
 DRAWN BY: [REDACTED]
 CHECKED BY: [REDACTED]
 APPROVED BY: [REDACTED]
 DATE: [REDACTED]
 PROJECT NO: [REDACTED]
 SHEET NO: [REDACTED]
 EAST BRANCH EAST WEAVER CREEK AT EAST WEAVER CREEK ROAD WIDENING PROJECT
 CULVERT CROSS SECTION AT INLET

EAST BRANCH UPPER ROAD STREAM CROSSING UPGRADES

6 Stream Crossing Upgrades



OREGON STREET MIGRATION BARRIER REPAIR

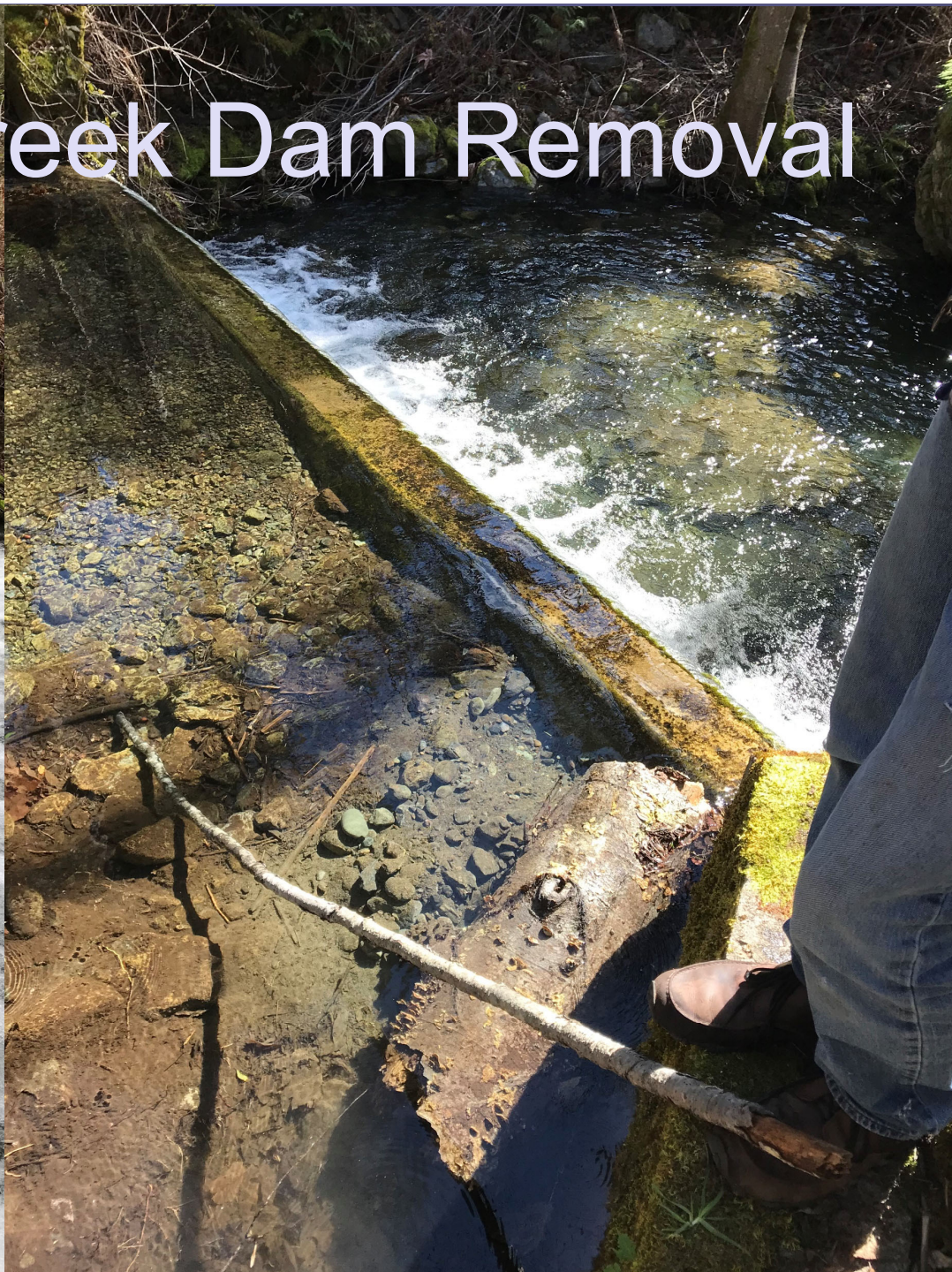


Design is complete and materials are on-hand for construction. Council has made multiple requests to Trinity County to finalize the Caltrans encroachment permit County says is needed before project can be constructed.

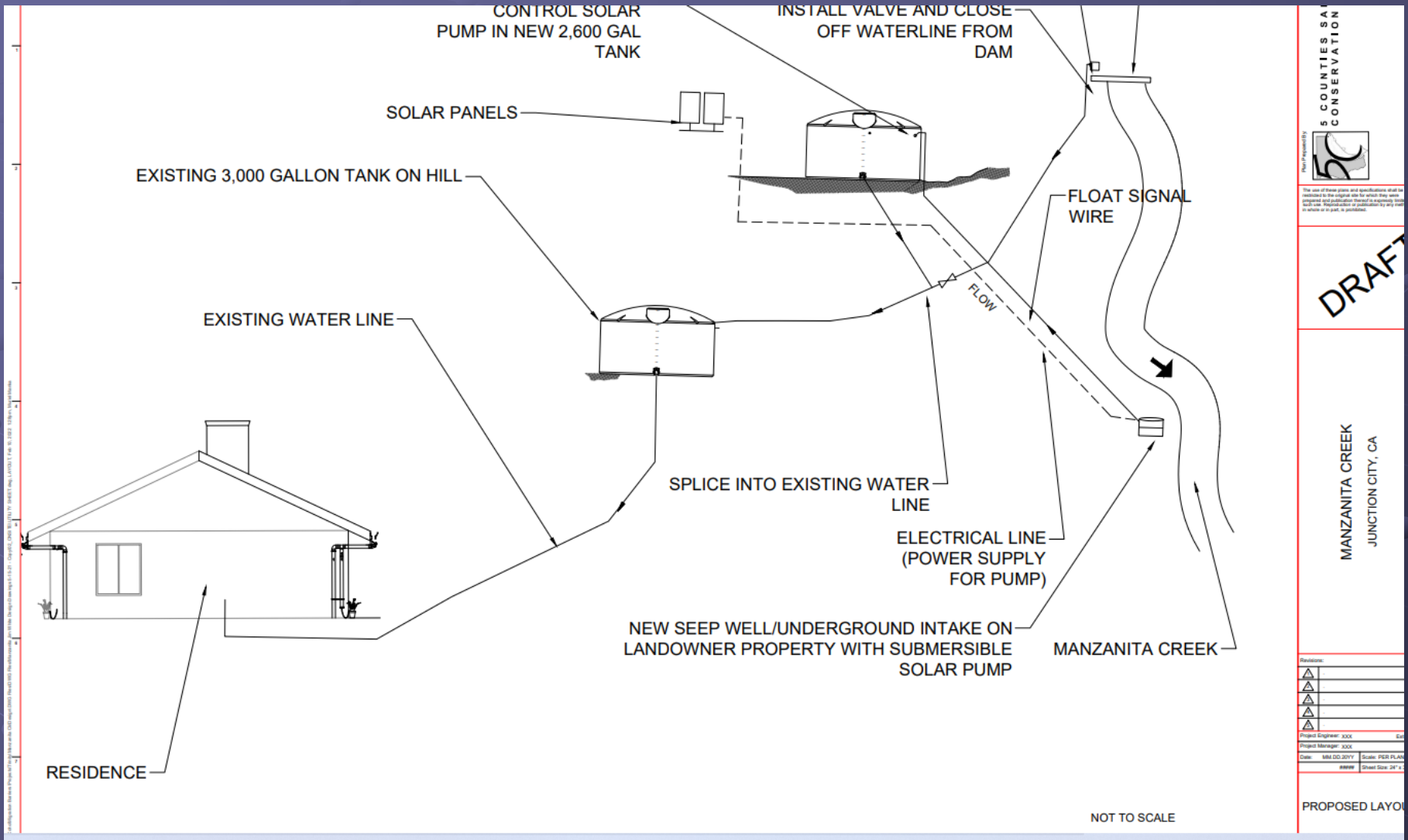
Manzanita Creek Dam Removal



Manzanita Creek Dam Removal



Manzanita Creek Dam Removal



5 COUNTIES SALVAGE & CONSERVATION

MANZANITA CREEK

DRAFT

MANZANITA CREEK
JUNCTION CITY, CA

Revisions:

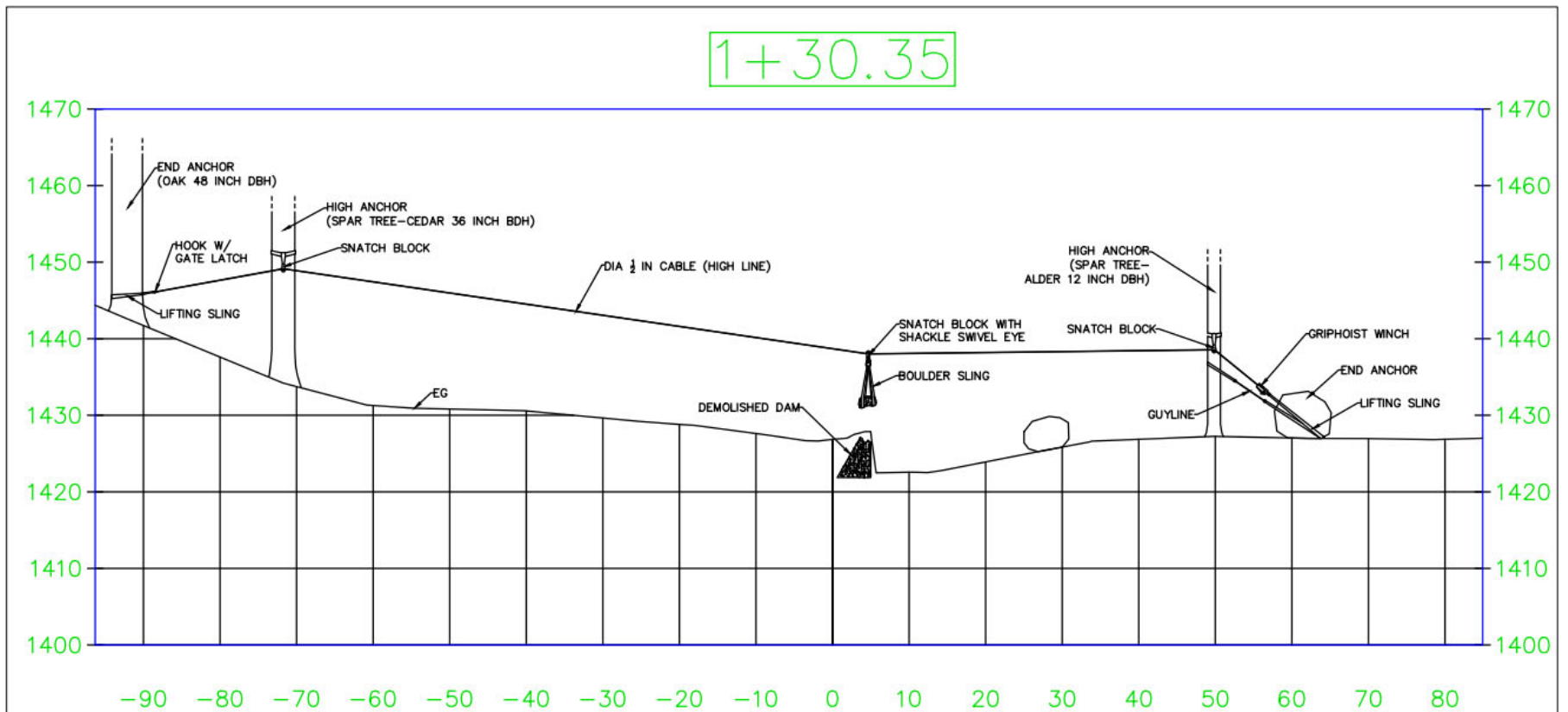
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Project Engineer: XXX
Project Manager: XXX
Date: 08.02.2017 Scale: PER PLAN
Sheet Size: 24" x 36"

PROPOSED LAYOUT

Manzanita Creek Dam Removal

1+30.35

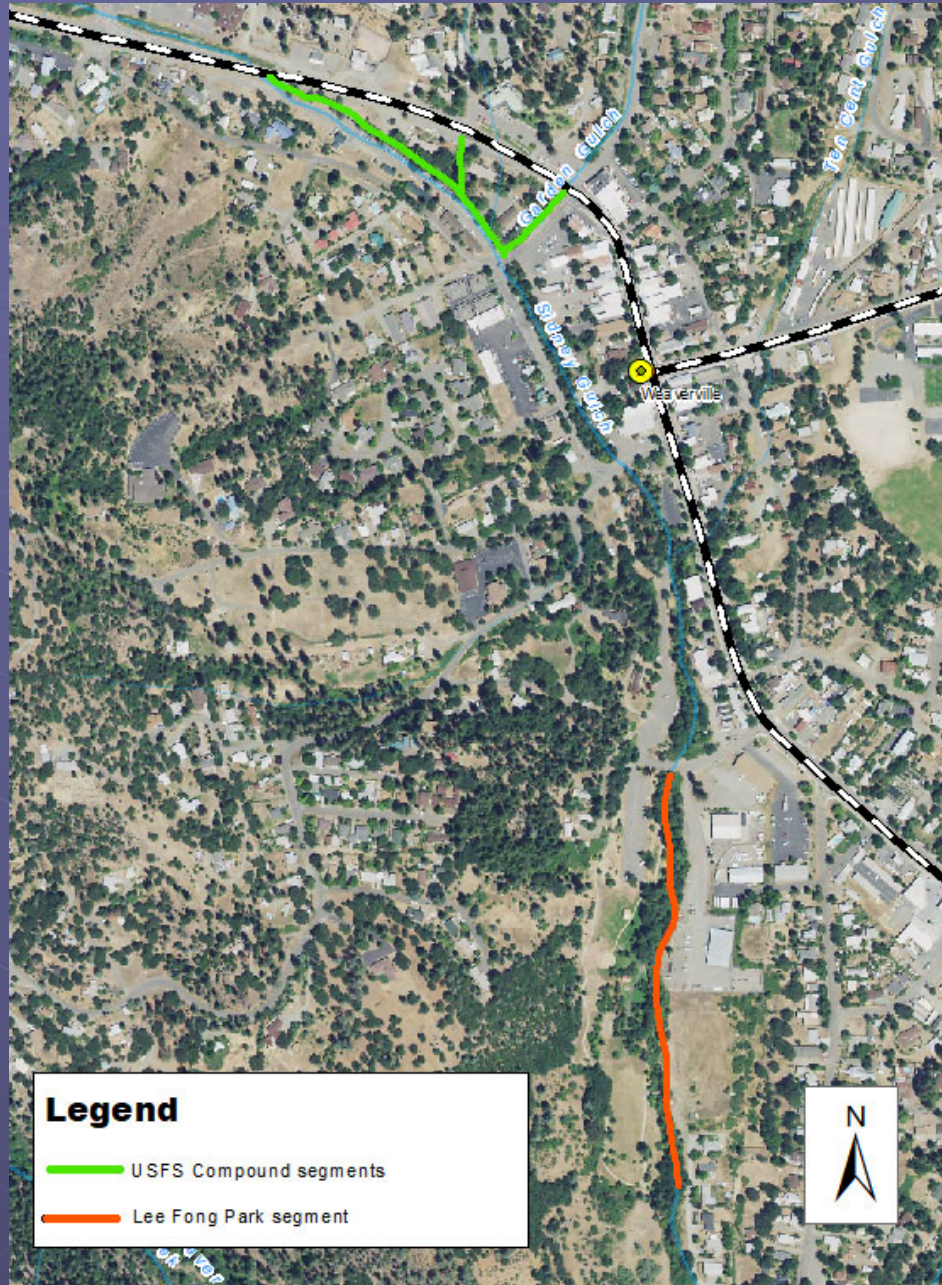




Manzanita Creek Dam Removal

Hazard trees from the Monument Fire need to be removed before further site visits can resume. USFS has not yet selected an alternative for dam removal. An MRDG is in progress.

Sidney Gulch: USFS & Lower (LFP)



- ❖ Both projects are in the design phase
- ❖ Environmental analysis has begun, though permits will not be requested until construction funds are pursued

Lower Sidney Gulch @ LFP

Pre-project
conditions



Above: storm events
overtop sections (Reach 1
Jan 2016)
Boulders indicate edge of
existing parking lot.

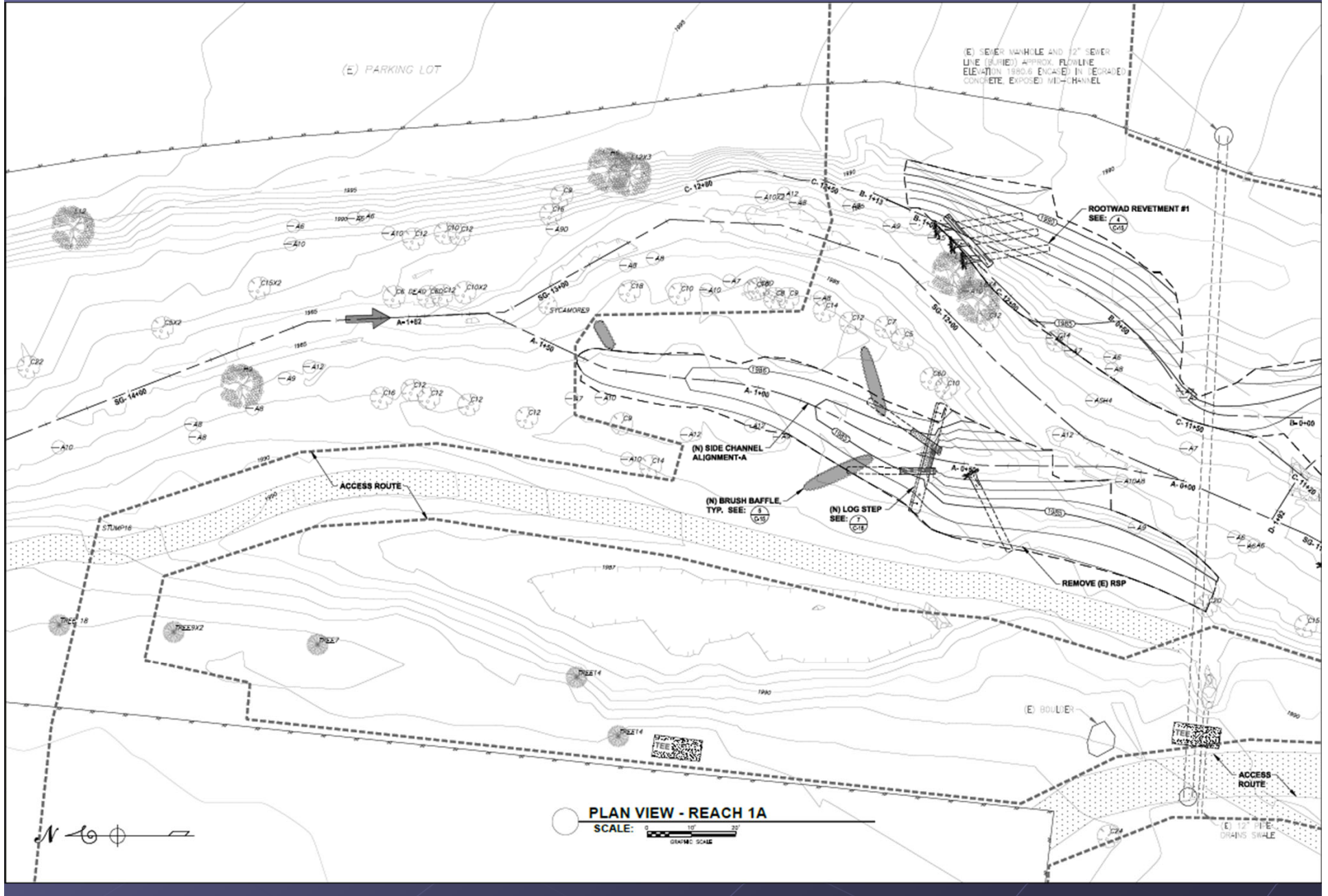
Walking path sections
flooded above are shown
dry at right.



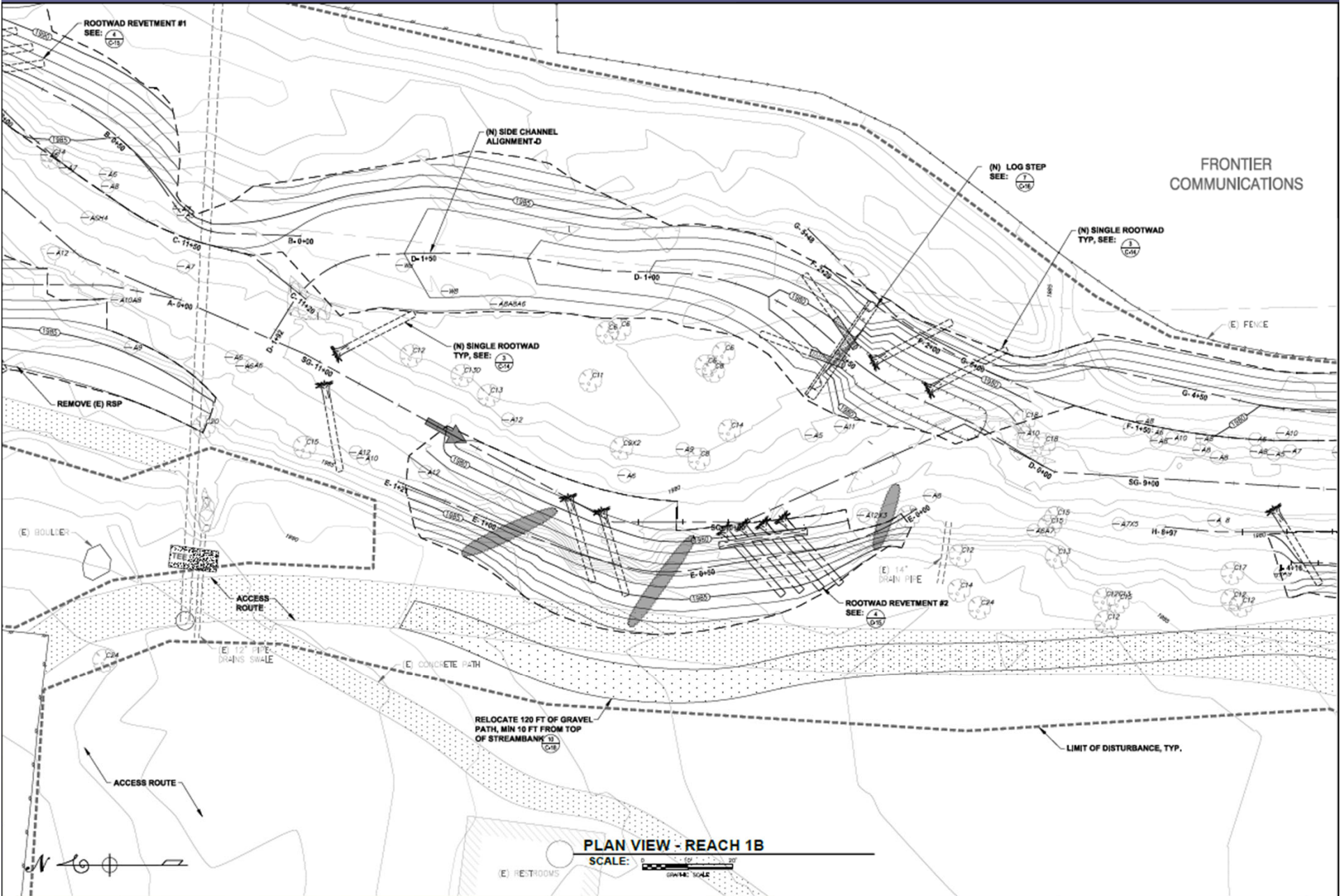
Lower Sidney Gulch Proposed Improvements

- Creating more complex instream habitat (large wood, boulders)
- Allowing more space for the channel to naturally meander and creating more of a meander in some places
- Removing blackberries, scotch broom, mullein, and other invasive species
- Removing non-native locust trees
- Replanting with suitable native, riparian species
- Preservation of important heritage orchard trees
- Relocating pedestrian path to allow for stream meander in some sections

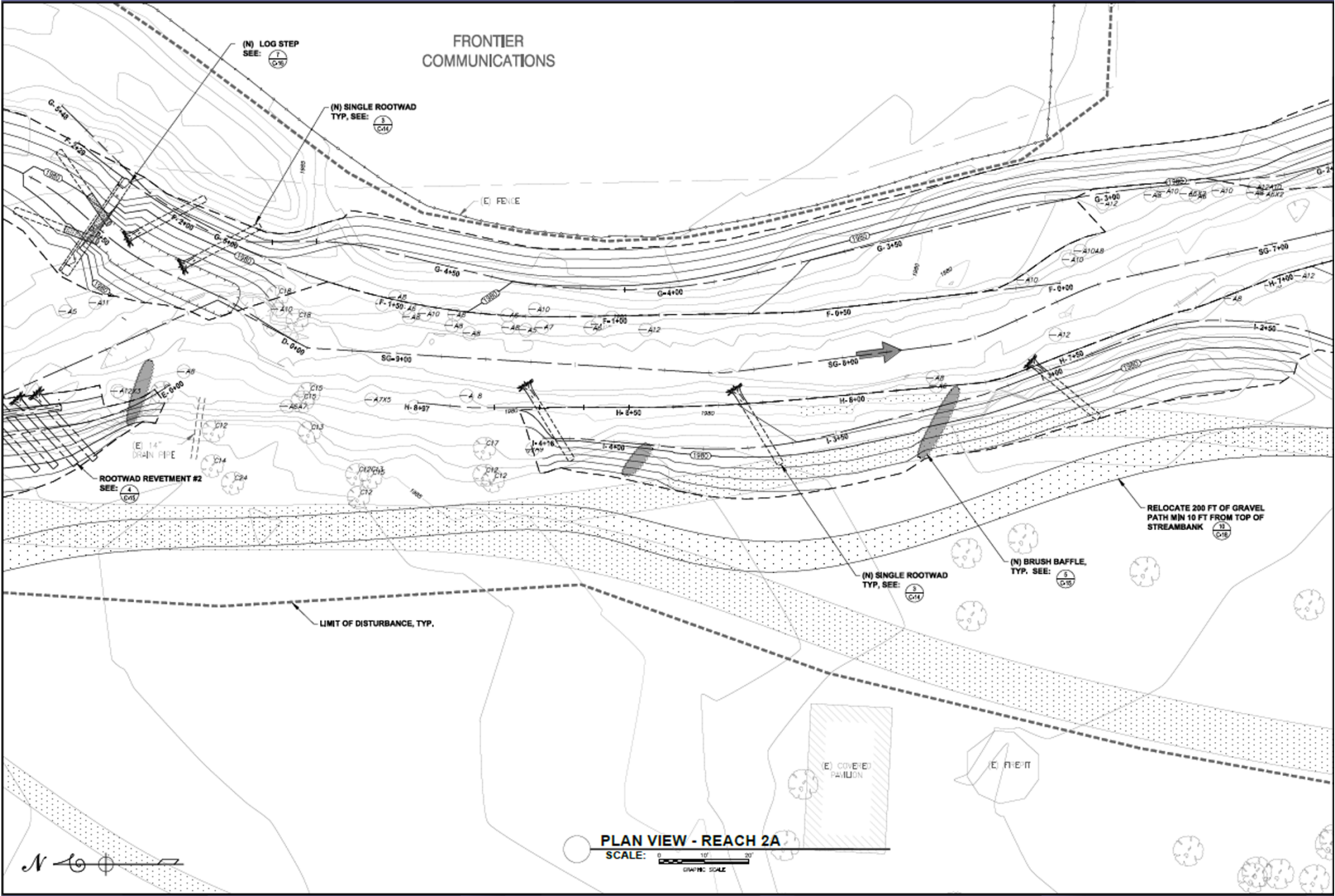
Furthest Upstream Reach (#1)

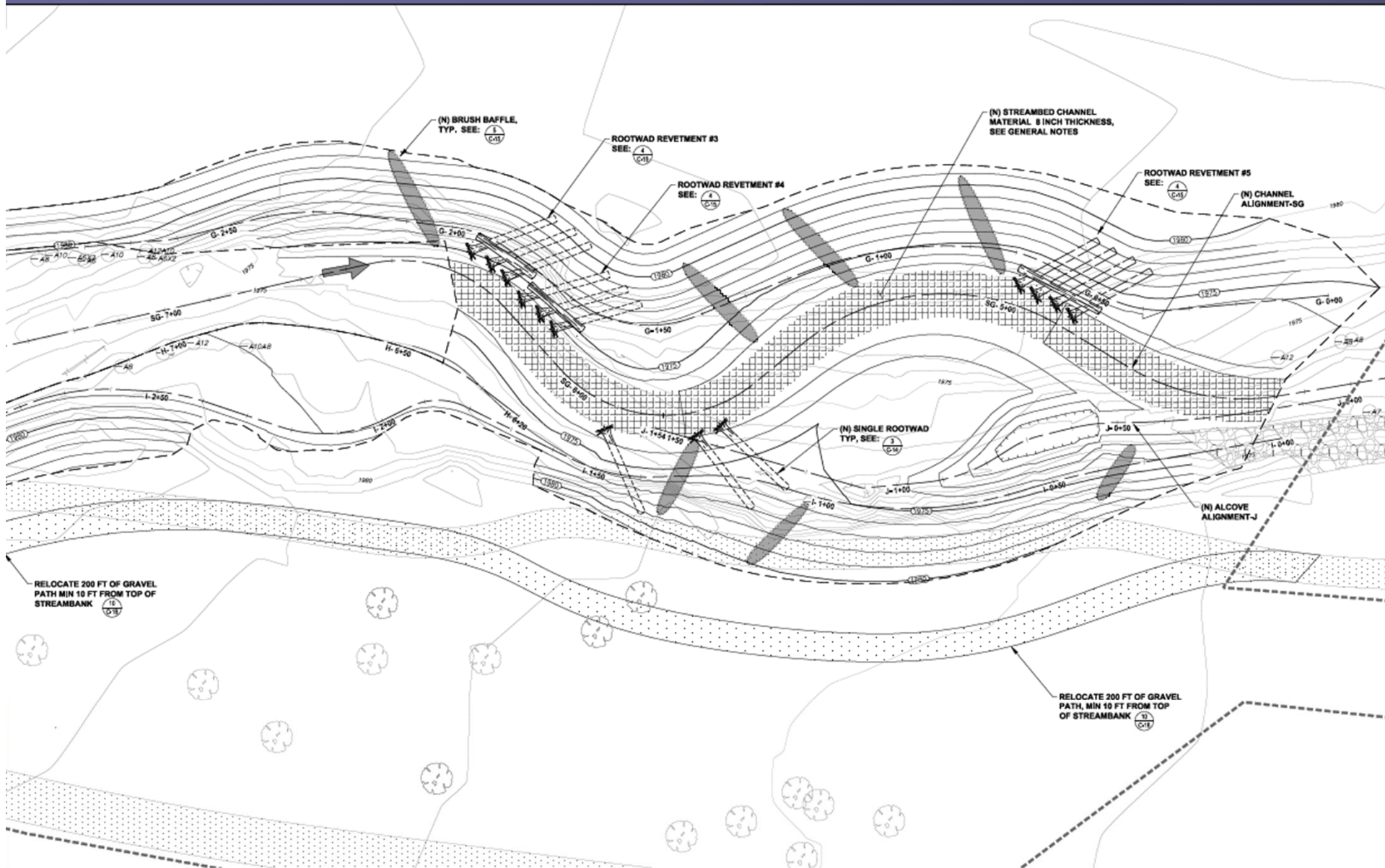


FRONTIER COMMUNICATIONS



FRONTIER
COMMUNICATIONS





PLAN VIEW - REACH 2B/3A
 SCALE: 0 10' 20'
 DRAWING SCALE

USFS Segment Proposed Improvements



- ❖ Allow for salmon migration (including Coho salmon)
- ❖ Increased habitat complexity (e.g., LWD, pools, riffles)
- ❖ ~1.5 acres of enhanced riparian vegetation
- ❖ Balance restoration with compound management objectives for historic resources, parking, and other concerns

Furthest Upstream Reach (#1)

