To: Board of Supervisors

FROM: Planning and Building Services Choose an item.

MEETING DATE: April 25, 2023

DEPARTMENT CONTACT: Julia Krog **PHONE:** 707-234-6650 **PHONE:** 707-234-6650 **PHONE:** 707-234-6650

ITEM TYPE: Consent Agenda TIME ALLOCATED FOR ITEM: N/A

AGENDA TITLE:

Discussion and Possible Action including Adoption of a Resolution Authorizing the Processing of a Consolidated Coastal Development Permit, LCP_2023-0002 (Trout Unlimited, Dry Dock Gulch Habitat Restoration), by the California Coastal Commission, for Trout Unlimited to Restore and Enhance Alcove Habitat for Juvenile and Adult Salmonids in Dry Dock Gulch in the Mendocino Area.

RECOMMENDED ACTION/MOTION:

Adopt a Resolution authorizing the processing of a Consolidated Coastal Development Permit, LCP_2023-0002 (Trout Unlimited, Dry Dock Gulch Habitat Restoration), by the California Coastal Commission, for Trout Unlimited to restore and enhance alcove habitat for juvenile and adult salmonids in Dry Dock Gulch in the Mendocino Area; and authorize chair to sign same.

PREVIOUS BOARD/BOARD COMMITTEE ACTIONS:

None.

SUMMARY OF REQUEST:

Trout Unlimited, in partnership with the California Department of Parks and Recreation, proposes to complete a habitat restoration project in Dry Dock Gulch, a tributary of Big River within the Mendocino Area. The project will provide access to and restore approximately 0.3 acres of tidally influenced alcove habitat in Dry Dock Gulch. The project will replace an undersized, perched stream crossing that is currently a complete barrier to juvenile and adult salmonids and lamprey. Replacement of the culvert will restore access to and enhance important off channel habitat as well as approximately 0.76 miles of "good quality" upstream spawning and rearing habitat. The project is funded by the National Oceanic and Atmospheric Administration (NOAA — National Marine Fisheries Service) Restoration Center and California Department of Fish and Wildlife's Fisheries Restoration Grants Program.

Currently, the project is split in terms of permit jurisdiction between the California Coastal Commission and Mendocino County. The Coastal Act was amended by Senate Bill 1843, effective January 1, 2007, which allows for a consolidated permitting process for projects when the Coastal Development Permit authority is shared by a local government and the California Coastal Commission. Therefore, Trout Unlimited is seeking a resolution which would consolidate the permit review under the California Coastal Commission for this specific project and streamline the permit process.

Additional details on the project may be found in the attached Memorandum and application materials.

ALTERNATIVE ACTION/MOTION:

Reject the Resolution, and direct staff to process a Coastal Development Permit for the portion of the project located in the County's jurisdiction.

DOES THIS ITEM SUPPORT THE GENERAL PLAN? Yes

STRATEGIC PLAN PRIORITY DESIGNATION: A Safe and Healthy County

SUPERVISORIAL DISTRICT: DISTRICT 5

VOTE REQUIREMENT: Majority

SUPPLEMENTAL INFORMATION AVAILABLE ONLINE AT:

https://www.mendocinocounty.org/government/planning-building-services/public-notices

FISCAL DETAILS:

SOURCE OF FUNDING: N/A BUDGETED IN CURRENT F/Y: N/A

CURRENT F/Y COST: N/A

ANNUAL RECURRING COST: N/A

IF NO, PLEASE DESCRIBE:
REVENUE AGREEMENT: N/A

BUDGET CLARIFICATION: N/A

AGREEMENT/RESOLUTION/ORDINANCE APPROVED BY COUNTY COUNSEL: Yes

CEO LIAISON: Steve Dunnicliff, Deputy CEO

CEO REVIEW: Choose an item.

CEO COMMENTS:

FOR COB USE ONLY

Executed By: Deputy Clerk Final Status: Item Status

Date: Date Executed Executed Executed Item Type: item Number:



JULIA KROG, DIRECTOR PHONE: 707-234-6650 FAX: 707-463-5709 FB PHONE: 707-964-5379 FB FAX: 707-961-2427 pbs@mendocinocounty.org www.mendocinocounty.org/pbs

MEMORANDUM

DATE: APRIL 25, 2023

TO: HONORABLE BOARD OF SUPERVISORS

FROM: JULIA KROG, DIRECTOR OF PLANNING AND BUILDING SERVICES

SUBJECT: LCP_2023-0002 CONSOLIDATED COASTAL DEVELOPMENT PERMIT REQUEST FOR

TROUT UNLIMITED TO RESTORE AND ENHANCE ALCOVE HABITAT FOR JUVENILE AND ADULT SALMONIDS IN DRY DOCK GULCH LOCATED IN THE MENDOCINO AREA

SUMMARY OF PROJECT

On March 14, 2023, Trout Unlimited filed a request with Planning and Building Services requesting consolidation of the County's permitting authority for the Dry Dock Gulch Habitat Restoration project. The Project proposes to complete a habitat restoration project in Dry Dock Gulch, a tributary of Big River within the Mendocino Area. The project will provide access to and restore approximately 0.3 acres of tidally influenced alcove habitat in Dry Dock Gulch. The project will replace an undersized, perched stream crossing that is currently a complete barrier to juvenile and adult salmonids and lamprey. Replacement of the culvert will restore access to and enhance important off channel habitat as well as approximately 0.76 miles of "good quality" upstream spawning and rearing habitat. The project goal is to restore and enhance alcove habitat for juvenile and adult salmonids in Dry Dock Gulch. To achieve this goal, access to Dry Dock Gulch must be restored by replacing a stream crossing on the M-1 Haul Road that can convey flood flows and debris, minimize inspection and maintenance obligations, and pass all life stages of Coho Salmon and Steelhead Trout. The project intends to improve the geographic distribution of Coho Salmon by improving access to biological refugia, upgrading culverts for fish passage and storm flow conveyance, and increasing shelter and habitat complexity with large wood. The project is funded by the National Oceanic and Atmospheric Administration (NOAA - National Marine Fisheries Service) Restoration Center and California Department of Fish and Wildlife's Fisheries Restoration Grants Program. Please see the Application Materials, Attachment B to this Memorandum, for a full description of each of these activities.

The Project is split in terms of permit jurisdiction with portions of the project lying within the retained jurisdiction of the California Coastal Commission and other portions within the County's permit jurisdiction. Pursuant to Public Resources Code section 30601.3, Trout Unlimited is requesting that the Dry Dock Gulch Habitat Restoration project be consolidated and processed by the California Coastal Commission.

The proposed consolidation request by the applicant would allow for streamlined processing of this Project. The alternative would be the processing of multiple Coastal Development Permits by multiple jurisdictions, which would not allow for a thorough analysis of the project. By authorizing the consolidation, the Board of Supervisors would allow the California Coastal Commission to process a Coastal Development Permit for the proposed Dry Dock Gulch Habitat Restoration project.

Staff finds that pursuant to Public Resources Code Section 30601.3 consolidation for this project is appropriate as public participation will not be substantially impaired by the consolidation. Public participation procedures for public hearings on Coastal Development Permits processed by either the State or the County are nearly identical, especially given current hybrid meeting procedures that allow remote public participation.

RECOMMENDATION

Adopt a Resolution authorizing the processing of a Consolidated Coastal Development Permit, LCP_2023-0002 (Trout Unlimited, Dry Dock Gulch Habitat Restoration), by the California Coastal Commission, for Trout Unlimited to restore and enhance alcove habitat for juvenile and adult salmonids in Dry Dock Gulch, Mendocino Area; and authorize chair to sign same.

ATTACHMENTS:

- A. Trout Unlimited Request, dated March 14, 2023
- B. Application Materials
- C. Draft Resolution of the Board of Supervisors



March 14, 2023

Mendocino County Department of Planning and Building Services 120 West Fir Street Fort Bragg, CA 95437

To Whom It May Concern,

Trout Unlimited (TU), in partnership with the California Department of Parks and Recreation, is planning to complete a habitat restoration project in Dry Dock Gulch, tributary to Big River. The project will provide access to and restore 0.3 acres of tidally influenced alcove habitat in Dry Dock Gulch. Following State and Federal fish passage design criteria, this project will replace an undersized, perched stream crossing that is a complete barrier to juvenile and adult salmonids and lamprey. Replacement of this culvert will restore access to and enhance important off channel (alcove) habitat as well as 0.76 miles of "good quality" upstream spawning and rearing habitat. This project is funded by the National Oceanic and Atmospheric Administration (NOAA-National Marine Fisheries Service) Restoration Center and California Department of Fish and Wildlife's Fisheries Restoration Grants Program.

The project area crosses state and local jurisdictional boundaries, therefore, TU is requesting that the project be consolidated for permitting pursuant to Public Resource Code Section 30601.3 under a federal (NOAA) Coastal Zone Management Act Consistency Determination (15 CFR 930.39).

The following items are attached for your review:

- LCP Application Form and Project Description
- Boundary Determination from the California Coastal Commission
- Dry Dock Project Planset
- Payment receipt

Please let me know if you need any additional information to process this request.

Thank you,

Elise Ferrarese

COUNTY OF MENDOCINO DEPT. OF PLANNING & BUILDING SERVICES

120 WEST FIR STREET FORT BRAGG, CA 95437 Telephone: (707)-964-5379

Case No(s)	LCP 2023-0002
Date Filed	3/14/2023
Fee \$	
Receipt No.	
Received by	Julia Krog

Office Use Only

		Office Use Offi	y		
LCP CONSISTENCY REVIEW APPLICATION FORM					
Name of Applicant	Name of Owner(s)	Name of Agent			
Trout Unlimited	California Dept. of Parks Recreation-Mendocino H Attn: Terra Fuller				
Mailing Address	Mailing Address	Mailing Address			
PO Box 1966		PO Box 1966	7		
Fort Bragg, CA 95437		Fort Bragg, CA 9543	1		
Telephone Number	Telephone Number	Telephone Number			
707-962-0115	707-937-3689	707-962-0115			
Project Description: The project will provide access to and r tributary to Big River. Following State a perched stream crossing that is a comp culvert will restore access to and enhar quality" upstream spawning and rearing. The project goal is to restore and enhar achieve this goal, access to Dry Dock C that can convey flood flows and debris, Coho Salmon and Steelhead Trout. The improving access to biological refugia, increasing shelter and habitat complexical Driving Directions	nd Federal fish passage delete barrier to juvenile and lice important off channel (general habitat.) Ince alcove habitat for juve Gulch must be restored by minimize inspection and reproject intends to improve upgrading culverts for fish	design criteria, this project will replace and adult salmonids and lamprey. Replace (alcove) habitat as well as 0.76 miles of the salmonids in Dry Dock (are placing a stream crossing on the Maintenance obligations, and pass allowe the geographic distribution of Cohopassage and storm flow conveyance,	an undersized, sement of this of "good Gulch. To -1 Haul Road life stages of Salmon by		
-	S/E/M/) side of M1 Ro	oad			
The site is located on the N (N/S	S/E/W) side of	Uau	(name road)		
approximately6 miles (feet/miles) _E (N/S/E/W) of its intersection with					
Big River State Beach parking lot	(p	provide nearest major intersection)			
			· 		
Assessor's Parcel Number(s) 11950002					
		(5)			
Parcel Size		ess of Project the M1 Road (Big River Haul Road) fr	om the gate at Rig		
	River State		on the gate at big		
300	quare Feet				
		: Before submittal, please verify correctioning Division in Ukiah.	t street address		

Project Description continued:

Project Need: The project is necessary because Coho Salmon and Steelhead Trout populations are in decline and enhancing alcove habitat and restoring passage into the Dry Dock Gulch watershed could benefit salmonids and Pacific Lamprey throughout the entire Big River watershed. The Project is also necessary to address climate change. Half of global methane emissions come from hightly variable aquatic ecosystems; however, sulfate-reducing bacteria, favoured by saline waters, can outcompete methanogens (Rosentreter, 2021). Converting freshwater wetlands back to salt marshes by restoring tidal flows is a promising strategy to reduce methane emissions while increasing carbon sequestration.

Implementation Strategy: In 2020, engineered designs were completed to restore tidal influences in Dry Dock Gulch and to allow for nearly unimpeded fish passage at the M1 stream crossing. The design features include a deep off-channel alcove with constructed wood habitat structures that will be excavated in an existing shallow marshy area to provide rearing habitat for juvenile salmonids. The Basis of Design Memo and final design drawings are provided in the Supplemental Documents. The design goals, objectives, and considerations were identified during the 2017 feasibility study and in subsequent environmental surveys and meetings with CDPR and reviewing agencies. The designs include a new stream crossing on the M1 Road that will allow for full tidal and backwater reconnection to Big river. This is intended to restore the natural hydrology at the site, eliminating the perennial standing water maintained by the existing road fill and perched culverts. The restored hydrology is anticipated to incise a new tidal channel through the recently deposited pond sediments, with the self-forming tidal channel transitioning to a fluvial channel at the northern head of the existing pond. Much of the existing pond bottom is expected to convert to a shallow marsh with emergent freshwater wetland vegetation. An alcove will be constructed in an existing area of shallow marsh along the margins of Dry Dock pond, near the culvert inlet, to create additional off-channel rearing and shelter habitat for salmonids. With this alternative, the frequent backwatering from both tidal influences and high flows from the Big River will restore water quality conditions within the Dry Dock Gulch. The increase in connectivity with the river will increase dissolved oxygen throughout the year, including in the fall when juvenile salmonids may move into the site for rearing. Additionally, restoration of the natural hydrology will allow sediment from Dry Dock Gulch to flow into the Big River and out to the ocean more readily, rather than accumulating in the existing artificial pond and delta. The constructed deep alcove should provide perennial offchannel habitat for salmonids and other aquatic organisms. This alternative was found to be the most cost-effective option with minimal long-term inspection and maintenance obligations. All habitat improvements will follow techniques described in the California Salmonid Stream Habitat Restoration Manual. The specific design features that are proposed are summarized below:

M1 Road Crossing Replacement

To restore the hydrology, the new culvert crossing will be a 10-foot diameter, 68-foot long aluminum structural plate pipe (ALSP Pipe) with its invert set at elevation 2.0 feet (NAVD88). Salinity measurements during the summer and early fall show that the Big River is brackish. Aluminum structural plate (ALSP) pipes are frequently used in saltwater environments. Special design considerations are included in the Basis of Design Report (Refer to Supplements) that address the culvert material selection and recommendations about the bedding and backfill around the structure to avoid accelerated corrosion of the aluminum. The culvert size and grade are designed to avoid creating a hydraulic and geomorphic control for Dry Dock Gulch. The design invert elevation matches the elevation of the existing shallow scour pool downstream of the culvert outlet and is set slightly lower than the projected stable thalweg elevation of the new tidal channel expected to form through the pond. The culvert size is sufficient to convey the estimated 100-year return period flow of Dry Dock Gulch but will be submerged

by Big River during infrequent flood events in the river. The engineered plans for the culvert installation have been reviewed by Mark Smelser, former CDFW Regional Engineering Geologist.

Constructed Channel and Anticipated Channel Adjustments

A short, 48-foot-long, section of channel will be constructed upstream of the new culvert inlet. The channel thalweg will be graded at elevation 2.0 feet and have a bottom width of approximately 7 feet. The side slopes will vary from as low as 2H:1V along the western bank to possibly as steep as 1H:1V along the eastern bank, which appears to consist of competent placed material associated with the water truck fill site. At the upstream end of this excavated channel the grading will transition abruptly at a 2H:1V slope to meet the existing ground at approximately elevation 10.3 feet.

Conversion of Pond to Brackish and Freshwater Marsh

Most of the pond bottom is between elevations 7 and 10 feet (NAVD88). The upper range of tides, without storm surges or freshwater flows in the Big River is approximately 7.5 feet. During the wet season, Big River water levels often fluctuate with the tide and frequently reach levels exceeding 8 feet at high tide. As such, the existing pond is expected to convert to freshwater marsh with portions of it inundated by spring high tides and all of it inundated by backwatering from the river during runoff events.

Proposed Off-Channel Alcove

To provide high-value off-channel habitat for salmonids, a tidal alcove will be excavated into the existing area of shallow marsh in the southwest corner of the pond, immediately upstream of the new M1 Road crossing and large woody debris (6 sites) will be placed throughout it. This alcove will provide perennial low-velocity habitat with plenty of cover for foraging salmonids and other aquatic organisms. Alcove design was guided by the Off Channel/Side Channel Habitat Design Plan Criteria in Part V of the PSN. The alcove is 0.3 acres in size, as measured from the limits of grading. The alcove location was selected based on good construction access, relatively competent soils for construction compared to the rest of the pond, and because it will be fed by small perennial and intermittent tributaries to the west in addition to tidal circulation from the Big River. The alcove feature will be connected to the stream channel when the river level, which fluctuates with the tides, is above elevation 4.0 feet. Based on observed water levels, the alcove will be connected to the river about 55% of the time, with it typically connected twice daily as associated with two high tides per day.

Large wood cover structures (n=16) will be placed throughout the alcove and across the sill. These structures are designed to be relatively simple to install given challenges with construction access once the alcove is graded. Each structure involves two vertical log posts driven by an excavator bucket into the soft soils a minimum of 6.5 feet below the disturbed ground surface. The post logs serve as anchor points to resist buoyancy for a single anchored cross-log. Some, or all, of the anchored crosslogs will include rootwads. They are positioned such that most of the log will be off the ground surface.

Current and Proposed Conditions and Area of Tidal Influence: Under existing conditions, everything upstream of the culvert outlet is *outside* of the area of tidal influence. This project will restore tidal hydrology to the site and expand the area of tidal influence. After the proposed project is completed, everything above the 8 ft contour will be outside of tidal influence. This includes the the fingers of the alcove (drainage swales), access roads and M1 Road. Design features within the future area of tidal influence include the alcove, littoral shelf, portions of the log habitat structures and the culvert itself.

CALIFORNIA COASTAL COMMISSION

45 FREMONT STREET, SUITE 2000 SAN FRANCISCO, CA 94105-2219 VOICE (415) 904-5200 FAX (415) 904-5400 WWW.COASTAL.CA.GOV



MEMORANDUM

March 16, 2023

To: Elise Ferrarese, Trout Unlimited

From: Darryl Rance, GIS Mapping Program

Cc: Melissa Kraemer North Coast District Manager

Subject: Coastal Zone Boundary Determination 03-2023, Dry Dock Gulch Restoration

project, Assessor Parcel Number (APN) 119-500-02, Mendocino County.

A boundary determination has been requested for Mendocino County APN 119-500-02 and the Dry Dock Gulch Restoration project. Attached is a portion of USGS 7.5 Minute Mendocino Quadrangle with the approximate location of the Dry Dock Gulch Restoration project indicated. See Exhibit 1. Also included is an aerial photograph-base exhibit with the Coastal Commission permit jurisdiction added. See Exhibit 2.

Based on the information provided and available in our office, the Dry Dock Gulch Restoration project is located entirely within the coastal zone and is bisected by County of Mendocino and Coastal Commission coastal development permit jurisdiction as depicted on Exhibit 2.

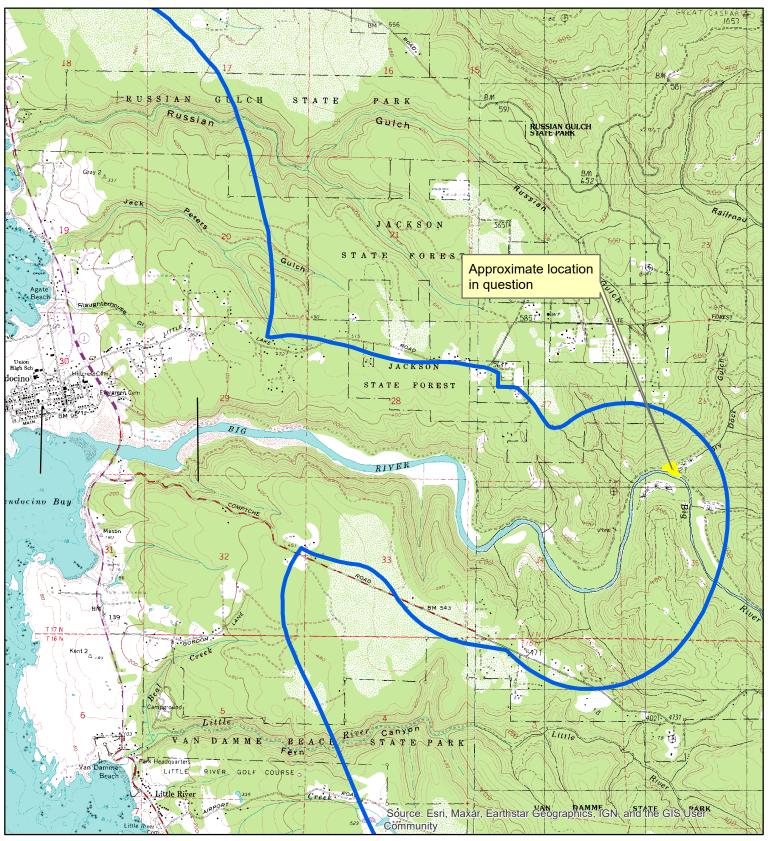
Development proposed within Coastal Commission permit jurisdiction requires coastal development permit authorization from the Coastal Commission. The Coastal Commission's permit jurisdiction is based on the existence of tidelands (including former tidelands), submerged lands and public trust lands. The information available indicates that the area in question appears to be located, in part, on tidelands, submerged land and, or land that may be subject to the public trust. Based on this information the Coastal Commission is asserting jurisdiction over development activities associated with the Dry Dock Gulch Restoration project as shown on Exhibit 2. The inland portion of the Dry Dock Gulch Restoration project is located in the County's jurisdiction and requires coastal development permit authorization from the County.

The Dry Dock Gulch Restoration project could qualify for a consolidated coastal development permit application process.

Please contact Darryl Rance at Darryl.Rance@coastal.ca.gov if you have any questions regarding this determination.

Attachments

DRY DOCK GULCH RESTORATION PROJECT ACHMENT B



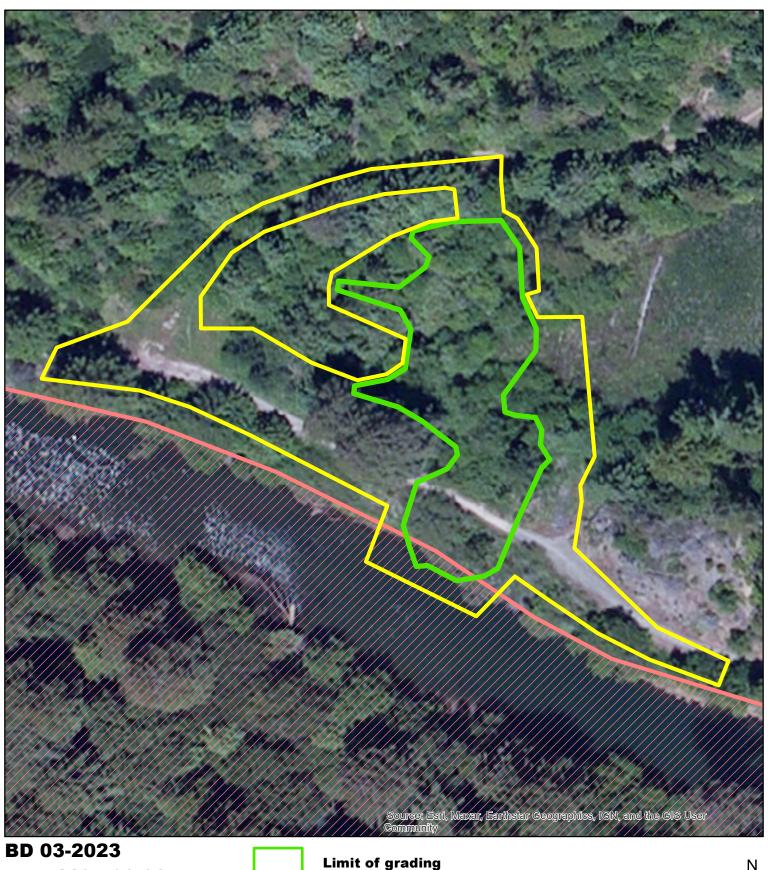
BD 03-2023 APN 119-500-02 Mencocino County

Portion of USGS 7.5 Minute Mendocino Quadrangle with Coastal Zone Boundary added





DRY DOCK GULCH RESTORATION PROJECT ACHMENT B



APN 119-500-02 **Mencocino County**

Limit of disturbance

For illustrative purposes only.

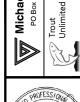
ATTACHMENT B - Page 6 of 18

DR 02/2022



ATTACHMENT B

PO Box 4477 • Arcata. CA 95518 • (707) 822 Trout Mational CA 95518 • (707) 822





VERIFY SCALE
THIS BAR IS
ONE INCH LONG
AT FULL SCALE

YY DOCK GULCH, MENDOCINO, CA O HEADLANDS STATE PARK BIG RIVER UNITILE AND COVER SHEET

DATE
JAN 2021
SUBMITTAL

FINAL
DESIGN
LOVE / LLANOS
DRAWN

DRAWN LLANOS

1 of 12

CALIFORNIA STATE PARKS

DRY DOCK GULCH RESTORATION PROJECT MENDOCINO HEADLANDS STATE PARK BIG RIVER UNIT, MENDOCINO, CALIFORNIA

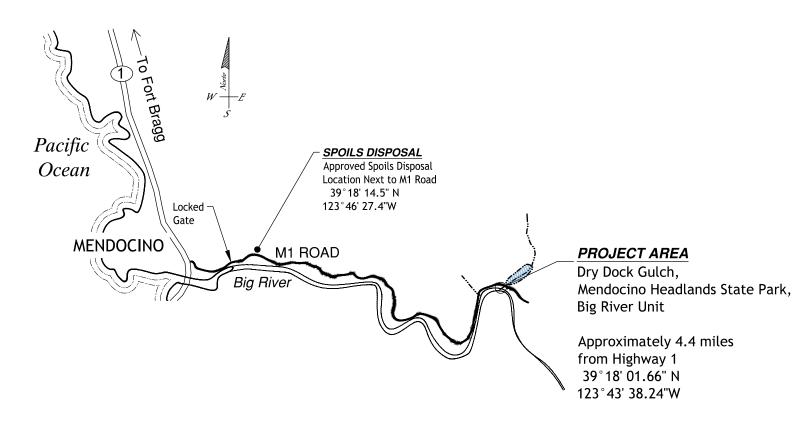
FINAL PLANS FOR CONSTRUCTION
JANUARY 2021

PREPARED FOR:

- CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE (FRGP # P1810509)
- CALIFORNIA STATE PARKS
- NATIONAL MARINE FISHERIES SERVICE
- TROUT UNLIMITED

SHEET INDEX				
Sheet Number	Sheet Title			
1	TITLE AND COVER SHEET			
2	LEGEND AND ABBREVIATIONS			
3	GENERAL NOTES			
4	WATER MANAGEMENT, BMPs AND NOTES			
5	SITE ACCESS AND DEMOLITION			
6	PROPOSED GRADING LAYOUT			
7	GRADING PROFILES			
8	CULVERT PLAN AND PROFILE			
9	CULVERT DETAILS			
10	TYPICAL SECTIONS			
11	ALCOVE TREATMENTS, PLAN			
12	TREATMENT DETAILS			

VICINITY MAP



SITE ACCESS AND SPOILS DISPOSAL MAP

NOT TO SCALE

MENDOCINO HEADLANDS STATE PARK

LEGEND AND SYMBOLS

EXISTING

EDGE OF GRAVEL ROAD

CONTOUR AND ELEVATION

____ CHANNEL THALWEG OR DRAINAGE

CONTROL POINT/TEMPORARY BENCH MARK

FLOW DIRECTION
SHALLOW MARSH

(E) ALDER OR WILLOW TREE

(E) REDWOOD TREE

(E) FIR TREE

(E) TREE TO BE REMOVED

NEW

LIMIT OF DISTURBANCE (LOD)

7+00 (A)
STATION (FEET) AND ALIGNMENT NAME

- CHANNEL THALWEG

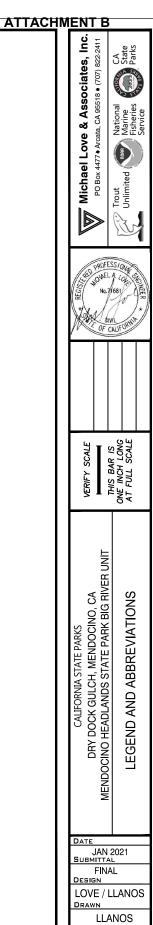
(N) LOG WITH ROOTWAD ATTACHED

(N) LOG

PAGE NO. OR DIVISION ON WHICH SECTION, DETAIL OR TYPICAL IS APPLIED, OR APPEARS DIRECTION OF SECTION VIEW LETTER INDICATES SECTION NAME SECTION VIEW SECTION VIEW

ABBREVIATIONS

APPROX/~	APPROXIMATELY	LOG	LIMIT OF GRADING
A 18	ALDER 18 INCH DBH TYP		LAYOUT LINE
ABUT	ABUTMENT	LT	LEFT
AC	ASPHALT CONCRETE	MAX	MAXIMUM
AGG	AGGREGATE	MBGR	METAL BEAM GUARD RAIL
ALD	ALDER	MIN	MINIMUM
ALSP	ALUMINUM STRUCTURAL PLATE	MP	MID POINT
APPROX	APPROXIMATELY	MSE	MECHANICALLY STABILIZED EARTH
BF	BANKFULL	(N)	NEW
BMP	BEST MANAGEMENT PRACTICE	NTS	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	0.C.	ON CENTER
CAP	CORRUGATED ALUMINUM ALLOY PIPE		ORIGINAL GROUND
CH	CHANNEL	OGRD	OLD GROWTH REDWOOD
CL	CENTERLINE	PC, P/C	PRE-CAST
CMP	CORRUGATED METAL PIPE	PG	PROPOSED GRADE
CO	CONTRACT OWNER	PSI	POUNDS PER SQUARE INCH
COR	CONTRACT OWNERS REPRESENTATIVE	R.C.	RELATIVE COMPACTION
CONC	CONCRETE	RC	RELATIVE COMPACTION
CP	SURVEY CONTROL POINT	R.D.	RELATIVE DENSITY
DBH	DIAMETER BREAST HEIGHT	RD.	REDWOOD
DBL	DOUBLE	RSP	ROCK SLOPE PROTECTION
DIAM	DIAMETER	RT	RIGHT
EB	END BRIDGE	SPA	SPACING
(E)	EXISTING	SSP	STRUCTURAL STEEL PLATE
ÈĠ	EXISTING GROUND	STA	STATION
EL, ELEV	ELEVATION	TBD	TO BE DETERMINED
EVG	END VERTICAL CURVE	TBM	TEMPORARY BENCHMARK
EXCAV	EXCAVATION	TYP	TYPICAL
FG	FINISHED GROUND	UNO	UNLESS NOTED OTHERWISE
FT	FOOT OR FEET	VC	VERTICAL CURVE
IN	INCHES	W/	WITH
INV	INVERT	w 18	WILLOW 18 INCH DBH TYP
IR	IRRIGATION LINE	WSE	WATER SURFACE ELEVATION
LBS	POUNDS	#	NUMBER
LOD	LIMIT OF DISTURBANCE	# %	PERCENT
		ø	DIAMETER
		1.5:1	HORIZONTAL:VERTICAL SLOPE
			THORNEOUT PER



2 of 12

1/29/21 Q:\Dry Dock Gulch\5_CAD\SHEETS\1_DD_TITLE (90%).dwg

ATTACHMENT B - Page 8 of 18

- 1. TROUT UNLIMITED (TU) IS THE CONTRACT OWNER (CO), THE TERM CONTRACT OWNER REPRESENTATIVE (COR) IS DEFINED AS ANY AUTHORIZED PROFESSIONAL DESIGNATED BY TU. ALL IMPROVEMENTS SHALL BE ACCOMPLISHED UNDER THE APPROVAL, INSPECTION AND TO THE SATISFACTION OF THE CO OR COR.
- 2. THE CALIFORNIA DEPARTMENT OF PARKS AND RECREATION IS THE LANDOWNER
- CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE WORK AREA DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE LANDOWNER, CO AND ITS REPRESENTATIVES HARMLESS FROM ANY LIABILITY, REAL AND OR ALLEGED, IN CONJUNCTION WITH THE PERFORMANCE OF THIS PROJECT.
- 4. A SET OF SIGNED WORKING DRAWINGS SHALL BE KEPT ON SITE AT ALL TIMES ON WHICH CONTRACTOR SHALL RECORD VARIATIONS IN THE WORK. THESE DRAWINGS SHALL BE SUBMITTED TO THE COR UPON COMPLETION OF WORK.
- 5. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT TEMPORARY BARRICADES TO PROVIDE FOR THE SAFETY OF THE STAFF AND GENERAL PUBLIC TO THE SATISFACTION OF THE CO.
- 6 THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR LIPON DISCOVERING SIGNIFICANT DISCREPANCIES, ERRORS OR OMISSIONS IN THE PLANS. PRIOR TO PROCEEDING, THE COR SHALL HAVE THE PLANS REVISED TO CLARIFY IDENTIFIED DISCREPANCIES, ERRORS OR OMISSIONS.
- 7. ALL WORK SHALL COMPLY WITH CURRENT STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS & SPECIFICATIONS AND THE CONTRACT DOCUMENTS UNLESS NOTED OTHERWISE.
- PLACED MATERIALS NOT CONFORMING TO SPECIFICATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE COR AT NO ADDITIONAL COST TO THE CO.
- IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, OR HUMAN REMAINS) ARE DISCOVERED DURING EXCAVATION, GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN A 100 FOOT RADIUS OF THE FIND. A QUALIFIED ARCHEOLOGIST RETAINED BY THE COR SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED. AT CO'S EXPENSE PER THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER.
- 10. IF HAZARDOUS MATERIALS OR WHAT APPEAR TO BE HAZARDOUS MATERIALS ARE ENCOUNTERED, STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND CONTACT 911 OR THE APPROPRIATE AGENCY FOR FURTHER INSTRUCTION.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN WATER AND POWER FOR OPERATIONS, IRRIGATION AND DUST CONTROL. WATER SHALL NOT BE PUMPED FROM THE CREEK FOR THESE USES.
- 12. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.

SEQUENCE OF CONSTRUCTION

WORK PHASING SHALL OCCUR AS FOLLOWS, UNLESS OTHERWISE APPROVED BY COR:

- 1. SUBMIT NECESSARY SUBMITTALS FOR APPROVAL. ONCE APPROVED, THE CONTRACTOR MAY COMMENCE THE WORK UNLESS OTHERWISE DIRECTED.
- 2. MOBILIZATION
- 3. CLOSURE OF CONSTRUCTION AREA TO PUBLIC.
- INSTALLATION OF FISH EXCLUSION DEVICES AND REMOVAL OF FISH AND OTHER ORGANISMS FROM WORK AREA.
- INSTALLATION OF TEMPORARY COFFERDAMS, CLEAR WATER DIVERSIONS DE-WATERING, AND SEDIMENT CONTROL WITHIN WORK AREA AS NEEDED.
- 6. CLEARING AND GRUBBING OF WORK AREA.
- TEMPORARY HAUL ROAD CONSTRUCTION.
- REMOVAL AND STOCKPILING OF TREES AND BRUSH AS INDICATED IN THE PLANS.
- IN-STREAM CONSTRUCTION.
- 10. REMOVAL OF WATER MANAGEMENT DEVICES.
- 11. REMOVAL OF FISH EXCLUSION DEVICES.
- 12. STABILIZATION OF THE WORK AREA
- 14. REMEDIATION OF DISTURBED AREAS.
- DEMOBILIZATION.

CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE PRIOR TO COMMENCING CONSTRUCTION.

TRAFFIC CONTROL AND SIGNAGE

- CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN FOR APPROVAL PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 2. THE M1 ACCESS ROAD WILL HAVE A LOCKED GATE THAT IS TO REMAIN LOCKED. NON-MOTORIZED PUBLIC ACCESS WILL BE ALLOWED FROM THE GATE TO THE
- 3. CONTRACTOR SHALL INSTALL SIGNAGE TO NOTIFY PUBLIC OF CONSTRUCTION TRAFFIC AND M1 ROAD CLOSURE AT THE PROJECT SITE. SIGNAGE SHALL BE PLACED AT THE LOCKED GATE, 0.1 MILES OF THE SPOILS DISPOSAL ARFA AND AT THE ENTRANCE OF THE PROJECT SITE. SIGNAGE SHALL INCLUDE ESTIMATED DATE BANGE OF CONSTRUCTION ACTIVITIES AND BOAD CLOSURE
- 4. ALL CONSTRUCTION VEHICLES SHALL NOT EXCEED 5 MPH ON CALIFORNIA STATE PARK ROADS

CLEARING AND GRUBBING

- 1. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL NOTES IN THE CONTRACT DOCUMENTS.
- 2. THE LIMIT OF DISTURBANCE DOES NOT DENOTE THE LIMIT OF CLEARING AND GRUBBING. THE EXTENT OF CLEARING SHALL BE MINIMIZED TO THE EXTENT POSSIBLE WITHIN THE LIMIT OF DISTURBANCE TO ALLOW MANEUVERABILITY OF
- 3. TREES NOT DESIGNATED FOR REMOVAL SHALL REMAIN AND BE PROTECTED.
- 4. TREES DESIGNATED FOR REMOVAL SHALL BE SALVAGED. TREES DESIGNATED FOR SALVAGE SHALL BE CUT TO THE LENGTHS SPECIFIED FOR USE IN LOG STRUCTURES. ROOT WADS SHALL REMAIN INTACT WITH STEM MIN 20-FT IN LENGTH
- 5. LIMBING OF TREES PERMITTED TO FACILITATE CONSTRUCTION
- 6. LIMBS AND SLASH OF TREES SHALL BE RETAINED IN AS LARGE STEM LENGTHS AS POSSIBLE (PREFERABLY 10 FT) FOR INCORPORATION INTO LOG STRUCTURES.
- 7. TREE ROOTS OF TREES TO REMAIN WITHIN LIMITS OF EXCAVATION SHALL BE PRESERVED TO THE EXTENT POSSIBLE.
- 8. REMAINING ORGANIC MATERIAL FROM CLEARING AND GRUBBING SHALL BE USED FOR SITE STABILIZATION.
- TREES NOT DESIGNATED FOR REMOVAL SHALL REMAIN AND BE PROTECTED.
- 10. NO GROUND DISTURBANCE SHALL OCCUR IN DESIGNATED ROOT PROTECTION

EROSION & SEDIMENT CONTROL

- 1. AT MINIMUM THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) AS APPLICABLE, AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION (CASQA HANDBOOK) (WWW.CASQA.ORG):
 - EC-1 SCHEDULING
 - PRESERVATION OF EXISTING VEGETATION FC-2
 - EC-8 WOOD MULCHING
 - SILT FENCE
 - SE-5 FIBER ROLLS
 - WIND EROSION CONTROL WE-1
 - NS-1 WATER CONSERVATION PRACTICES
 - NS-2 **DEWATERING OPERATION**
 - NS-5 CLEARWATER DIVERSION
 - NS-8 VEHICLE AND EQUIPMENT CLEANING
 - NS-9 VEHICLE AND EQUIPMENT FUELING
 - NS-10 VEHICLE AND EQUIPMENT MAINTENANCE
 - SS-9 EARTH DIKES AND DRAINAGE SWALES
 - VELOCITY DISSIPATION DEVICES SS-10
 - WM-1 MATERIALS DELIVERY AND STORAGE
 - WM-2 MATERIAL USE
 - WM-3 STOCKPILE MANAGEMENT
 - WM-4 SPILL PREVENTION AND CONTROL
 - WM-5 SOLID WASTE MANAGEMENT
 - WM-9 SANITARY/SEPTIC WASTE MANAGEMENT
- 2. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS STABILIZED PRIOR TO THE ONSET OF ANY RAIN EVENT TO PREVENT SEDIMENT DELIVERY TO
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO THE ADJACENT STREAM AND SENSITIVE AREAS. CONTRACTOR WILL BE RESPONSIBLE FOR ALL FINES AND
- 4. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO ADDRESS AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.
- 5. MINIMIZE DISTURBANCE OF EXISTING VEGETATION TO THAT NECESSARY TO COMPLETE WORK.
- 6. ALL HEAVY EQUIPMENT SHALL BE STEAM CLEANED PRIOR TO ENTRY TO THE PROJECT SITE TO INHIBIT THE SPREAD OF EXOTIC SEED. ALL HEAVY EQUIPMENT SHALL BE LEAK FREE UPON ENTRY TO THE PROJECT SITE AND ANY LEAKS SHALL BE REPAIRED IMMEDIATELY.
- 7. ACTIVITIES SUCH AS VEHICLE WASHING ARE TO BE CARRIED OUT AT AN OFF-SITE FACILITY WHENEVER PRACTICAL
- 8. THE CONTRACTOR, AS NECESSARY, SHALL IMPLEMENT OTHER BMPS SPECIFIED IN THE CASQA HANDBOOK DICTATED BY SITE CONDITIONS AND AS DIRECTED BY THE COR. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE COR.
- 9. THE CONTRACTOR SHALL MAKE ADEQUATE PREPARATIONS, INCLUDING TRAINING AND EQUIPMENT, TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS. SPILL KITS SHALL BE PRESENT AT EACH WORK SITE TO INHIBIT THE SPREAD OF FLUID LEAKS ONTO THE GROUND OR SURROUNDING AREAS.
- 10. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTACLE FOR COMMON SOLID WASTE AT CONVENIENT LOCATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTION OF WASTES.

- 11. BOTH ACTIVE AND NON-ACTIVE SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE (WM-3).
- 12. THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS AND ENSURE ADEQUATE ANCHORAGE OF SUCH FACILITIES TO PREVENT TIPPING BY WEATHER OR VANDALISM.
- 13. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE COR
- 14. PRIOR TO FINAL ACCEPTANCE, ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SALAVAGED BRUSH AND ORGANIC MATERIAL BY CONTRACTOR AND TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SPECIFIED.
- 15. DISTURBED SOILS ALONG CONSTRUCTION ACCESS ROUTES SHALL BE COVERED IN SALVAGED ORGANIC MATERIAL
- 16. SALVAGED ORGANIC MATERIAL FOR MULCHING MAY INCLUDE REDWOOD NEEDLES COLLECTED FROM THE SURFACE OF THE M1 ROAD.

EXCAVATION, FILL AND COMPACTION

- 1. EXCAVATION AND BACKFILL SHALL BE AS INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- 2. THE GEOLOGIC DESIGN REPORT IS AVAILABLE UPON REQUEST
- 3. EXCAVATION SHALL INCLUDE EXCAVATION AND HANDLING OF SATURATED SOILS. CONTRACTOR SHALL BE PREPARED TO DEWATER AND /OR TRANSPORT SATURATED SOIL IN A MANNER THAT PREVENTS EXCESS DISCHARGE OR SPILLAGE OF SOILS OR WATER WITHIN THE CONSTRUCTION ACCESS AREA OR ROADWAYS. SHOULD ANY DISCHARGE OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE AND COMPLETE CLEAN UP. MULTIPLE HANDLING OF MATERIAL MAY BE NECESSARY.
- 4. EXCAVATED MATERIAL SHALL BE MOISTURE CONDITIONED TO ACHIEVE THE SPECIFIED COMPACTION FOR BACKFILL.
- RELATIVE COMPACTION: CURRENT VERSIONS OF CALTRANS CALIFORNIA TEST 216 OR 231, OR OTHER METHODS APPROVED BY COR
- STRUCTURAL BACKFILL INSTALLED IN 8 INCH LIFTS, MAXIMUM.
- 7. EMBANKMENT BACKFILL INSTALLED IN 8 INCH LIFTS, MAXIMUM.
- 8. COMPACTION TESTING IS REQUIRED FOR ALL MATERIAL SPECIFIED TO BE COMPACTED GREATER THAN 85% RELATIVE COMPACTION. COMPACTION TESTS ARE REQUIRED EVERY THIRD LIFT. FOR STRUCTURAL BACKFILL OR EMBANKMENT BACKFILL WITHIN THE TRENCH CREATED TO INSTALL THE CULVERT
- 9. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO PERFORM COMPACTION FIELD TESTS AND INSPECTIONS AND PREPARE REPORTS, AT CONTRACTOR'S EXPENSE.
- 10 WHEN TESTS INDICATE THAT THE SPECIFIED COMPACTION HAS NOT BEEN ACHIEVED, THAT PORTION OF THE WORK SHALL BE REWORKED UNTIL THE REQUIRED DENSITY HAS BEEN ATTAINED.
- 11. UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR FOR DISPOSAL IN AN APPROVED LOCATION. UNSUITABLE MATERIAL INCLUDES THOSE DEFINED IN CALTBANS STANDARD SPECIFICATIONS, INCLUDING CONCRETE, GROUTED RIPRAP, PIPES ALL AND OTHER MANMADE MATERIALS WITHIN THE LIMIT OF DISTURBANCE (LOD)
- 12. UNLESS OTHERWISE SPECIFIED, TOLERANCE FOR FINISHED GRADING SHALL BE ± 0.2 FEET VERTICALLY AND ± 0.5 FEET HORIZONTALLY.
- 13. EXCAVATED MATERIAL NOT USED FOR BACKFILL SHALL BE HAULED AND OFFLOADED BY THE CONTRACTOR TO THE PROJECT'S DESIGNATED SPOILS DISPOSAL AREA SHOWN ON SHEET 1.
- 14. GRADING MAY BE ADJUSTED AT DIRECTION OF COR TO AVOID TREES AND OTHER FEATURES.
- 15. THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION NON-COMPLYING FILL TOPSOIL AND OTHER UNSUITABLE MATERIALS, SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL, UNSUITABLE SOIL IS SOIL WHICH, IN THE OPINION OF THE COR, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR FILL, TO SUPPORT STRUCTURES OR TO SATISFACTORILY PERFORM THE OTHER FUNCTIONS FOR WHICH THE SOIL IS
- 16. DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILLS. EXCEPT AS PERMITTED BY COR, NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN TWELVE (12) INCHES SHALL BE BURIED OR PLACED IN FILLS.

UTILITY

1. UTILITIES SHOWN (IF ANY) WERE LOCATED FROM ABOVE GROUND VISUAL STRUCTURES. NO UTILITY RESEARCH WAS CONDUCTED FOR THE SITE. NOTIFY UNDERGROUND SERVICE ALERT (DIGALERT) AT LEAST TWO DAYS PRIOR TO ANY

GRADING OR EXCAVATION WITHIN THE SITE BY CALLING 811 OR 1-800-227-2600. CONTRACTOR SHALL POTHOLE ALL EXISTING LITHLITIES AS NEEDED FOR

VERIFICATION. UTILITIES MAY EXIST WHICH ARE NOT KNOWN TO THE LANDOWNER, COR OR CO. 3. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES AND

STRUCTURES LOCATED IN THE PROJECT AREA AND CONSTRUCTION ACCESS ROUTES. CONTRACTOR SHALL AVOID DISRUPTION OF ANY UTILITIES UNLESS PREVIOUSLY ARRANGED WITH COR. CONSTRUCTION MAY TAKE PLACE IN THE VICINITY OF OVERHEAD UTILITY LINES.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE AWARE OF AND OBSERVE THE MINIMUM CLEARANCES FOR WORKERS AND EQUIPMENT OPERATING NEAR HIGH VOLTAGE, AND COMPLY WITH THE SAFETY ORDERS OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AS WELL AS OTHER APPLICABLE SAFETY REGULATIONS.

5. TELEPHONE, ELECTRIC, WATER AND OTHER UTILITY LINES SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT INTERRUPTION OF SERVICE.

CONSTRUCTION ACCESS:

- 1. CONTRACTOR SHALL LIMIT TEMPORARY CONSTRUCTION ACCESS ROUTES TO WITHIN THE LOD.
- 2. CONTRACTOR USE AREAS ARE INDICATED IN THE DRAWINGS.
- 3. ANY ADDITIONAL AREAS TO BE USED MUST BE APPROVED BY THE COR.

SPOILS DISPOSAL

- 1. THE DESIGNATED SPOILS AREA IS SHOWN ON SHEET 1 SITE ACCESS AND SPOILS DISPOSAL MAP.
- 2. SPOILS DISPOSAL AREA WILL BE CLOSED TO PUBLIC ACCESS, CONTRACTOR SHALL PROVIDE PUBLIC SIGNAGE TO BE APPROVED BY THE COR.
- 3. REMOVE ALL ORGANIC MATERIAL FROM THE SURFACE AND GRUB TO REMOVE ROOTS PRIOR TO PLACEMENT OF SPOILS.
- 4. DE-COMPACT SURFACE PRIOR TO PLACEMENT OF SPOILS
- 5. CONTRACTOR SHALL SPREAD SPOILS IN LIFTS OF NO MORE THAN 8 INCHES THICK AND TRACK COMPACT EACH LIFT.

SURVEY AND TOPOGRAPHIC DATA

- 1. SURVEY CONDUCTED BY MICHAEL LOVE AND ASSOCIATES ON FEBRUARY 23-24 AND OCTOBER 23-24, 2019. HORIZONTAL AND VERTICAL DATUM ADJUSTED TO
- 2. LIDAR DATA FROM THE 2009-2011 NOAA DIGITAL COASTAL CALIFORNIA TOPOBATHY MERGED PROJECT DIGITAL ELEVATION MODEL (DEM).
- 3. HORIZONTAL DATUM IS CA STATE PLANE ZONE 2 (NAD83) US FEET.
- 4. VERTICAL DATUM IS NAVD88 US FEET
- 5. THE EXISTING GRADE REFLECTS SITE CONDITIONS AT THE TIME OF SURVEY. CONTRACTOR SHOULD VERIFY GRADES PRIOR TO COMMENCING WORK AND SHALL REPORT ANY DISCREPANCY BETWEEN DESIGN DRAWINGS AND FIELD. CONDITIONS IMMEDIATELY TO THE COR. THE CONTRACTOR SHALL NOT COMMENCE WITH GRADING UNTIL THE DISCREPANCY IS RESOLVED.

ATTACHMENT B

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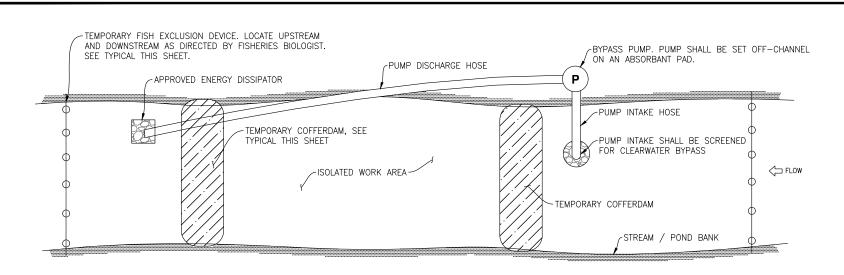
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Q:\Dry Dock Gulch\5 CAD\SHEETS\1 DD TITLE (90%).dwg

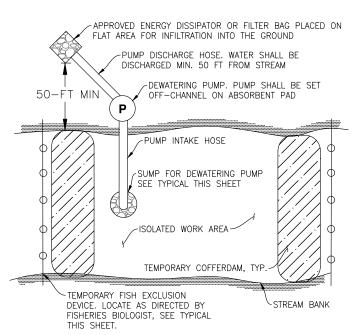
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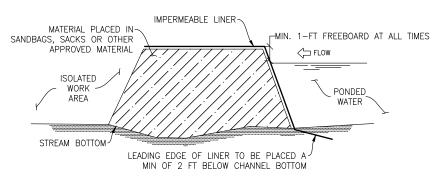
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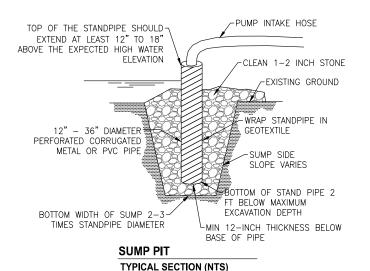
TEMPORARY CLEAR WATER BYPASS TYPICAL PLAN (NTS)

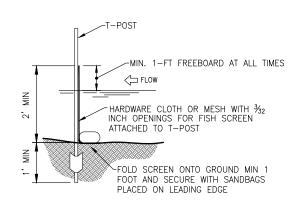


TEMPORARY NUISANCE DEWATERING MEASURES TYPICAL PLAN (NTS)



TEMPORARY COFFERDAM TYPICAL PROFILE (NTS)





TEMPORARY FISH EXCLUSION DEVICE **TYPICAL PROFILE (NTS)**



WATER MANAGEMENT

- THE WATER MANAGEMENT FEATURES (E.G. COFFERDAMS) SHOWN IN THE CONTRACT DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS TO DESIGN A WATER MANAGEMENT APPROACH THAT MEETS ALL PERMITS AND OTHER CONSTRAINTS.
- THE OBJECTIVE OF WATER MANAGEMENT IS TO ISOLATE THE SITE WORK SO THAT WORK IS COMPLETED IN DRY CONDITIONS. TO ACCOMPLISH THIS, THE CONTRACTOR MUST EMPLOY A CLEAR WATER BYPASS SYSTEM AND WORKSITE DEWATERING SYSTEM. THE CLEAR WATER BYPASS SYSTEM BYPASSES POND WATER AROUND THE WORK AREA. THE DEWATERING SYSTEM REMOVES "NUISANCE" WATER (E.G. SEEPAGE) FROM WITHIN THE ISOLATED WORK AREA AND IS TREATED TO REMOVE SEDIMENT.
- NO CONSTRUCTION ACTIVITIES ARE PERMITTED UNTIL A WATER MANAGEMENT PLAN HAS BEEN

SUBMITTALS

- WATER MANAGEMENT PLAN MUST INCLUDE THE FOLLOWING
- SUMMARY OF THE CONTRACTOR'S WATER MANAGEMENT APPROACH.
- DESCRIBE THE APPROACH TO COORDINATE THE REMOVAL OF FISH AND OTHER SPECIES FROM THE ISOLATED WORK AREA
- DESCRIBE IN DETAIL INCLUDING GRAPHICAL FIGURES, MATERIALS AND CONSTRUCTION SEQUENCE FOR INSTALLATION OF COFFER DAMS.
- DESCRIBE IN DETAIL, INCLUDING GRAPHICAL FIGURES, THE CLEAR WATER BYPASS SYSTEM, THIS INCLUDES, BUT IS NOT LIMITED TO, LOCATION OF INFRASTRUCTURE, PHASING OF DEWATERING, TYPE OF INFRASTRUCTURE, DESIGN FLOW, PIPE SIZE, PIPE MATERIAL, PIPE LENGTH, PIPE ROUTING, ETC., AND
- DESCRIBE IN DETAIL, INCLUDING GRAPHICAL FIGURES, THE DEWATERING SYSTEM, THIS INCLUDES, BUT IS NOT LIMITED TO, THE LOCATION OF INFRASTRUCTURE, TYPES OF EQUIPMENT, SIZE OF EQUIPMENT,
- DESCRIBE IN DETAIL THE PROCEDURES TO BE EXECUTED SHOULD THE POND WATER LEVEL OR CHANNEL FLOW INCREASE (I.E. BECAUSE OF STORM EVENT).

PRODUCTS

COFFERDAM

- MAY BE CONSTRUCTED USING NATIVE OR IMPORTED MATERIAL PLACED IN BAGS (E.G. SAND BAGS, SUPERSACKS). NO COFFERDAM MATERIAL MAY BE RELEASED TO THE CHANNEL AT THE COMPLETION OF THE CONSTRUCTION WITHOUT APPROVAL. MATERIAL AND APPROACH TO BE DESCRIBED IN THE WATER MANAGEMENT PLAN
- THE IMPERMEABLE LINER MATERIAL TO BE USED SHALL BE IDENTIFIED IN THE WATER MANAGEMENT 2.
- ALTERNATIVE MATERIALS MAY BE CONSIDERED (I.E. WATER FILLED BLADDERS, SHEETPILES)
- NO PILE OR VIBRATORY DRIVING SHALL BE USED FOR INSTALLATION OF COFFER DAM MATERIALS.
- COFFERDAM AT CULVERT OUTLET SHALL BE CONSIDERED SHORING AND MUST BE DESIGNED BY A CA LICENSED CIVIL ENGINEER, AND SUPPORTING CALCULATIONS PROVIDED

CLEAR WATER BYPASS SYSTEM

- CLEARWATER BYPASS IS LIMITED TO DRAWING DOWN POND TO MINIMUM ALLOWABLE LEVEL AND MAINTAINING WATER LEVEL AS NEEDED
- BYPASS SYSTEM SHALL BE CAPABLE OF MAINTAINING MINIMUM POND ELEVATION UNTIL AREA IS
- THE PIPE MATERIAL SHALL BE SELECTED FOR FLEXIBILITY AND DURABILITY TO ALLOW FOR THE OCCASIONAL RELOCATION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL USE RESTRAINED PIPE JOINTS OR USE FITTINGS AND COUPLINGS THAT PREVENT SEPARATION OF PIPES.
- THE CONTRACTOR SHALL PROVIDE BACKUP POWER AND PUMPING EQUIPMENT TO ASSURE THAT THE CLEAR WATER DIVERSION REMAINS FUNCTIONAL THROUGHOUT THE TIME PERIOD THAT THE CHANNEL

THE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, EQUIPMENT, FACILITIES AND SERVICES AS REQUIRED FOR PROVIDING THE NECESSARY DEWATERING WORK AND FACILITIES, AND PROVIDE BACKUP EQUIPMENT AS NECESSARY FOR REPLACEMENT AND FOR UNANTICIPATED EMERGENCIES.

EXECUTION

- NO WORK MAY BEGIN UNTIL THE CONTRACTOR'S WATER MANAGEMENT PLAN HAS BEEN APPROVED.
- INSTALL WATER MANAGEMENT SYSTEMS PER THE APPROVED WATER MANAGEMENT PLAN.
- INSTALLATION OF WATER MANAGEMENT FACILITIES AND INITIATION OF DEWATERING, SHALL BE COMPLETED IN CONJUNCTION WITH THE FISH/AMPHIBIAN REMOVAL
- GAS PUMPS SHALL BE SET IN APPROVED CONTAINMENT DEVICES.
- REFER TO CONTRACT DRAWING DETAILS FOR ADDITIONAL INFORMATION
- ONCE THE IN-CHANNEL WORK IS COMPLETED AND ACCEPTED, REMOVE WATER MANAGEMENT SYSTEMS PER THE APPROVED WATER MANAGEMENT PLAN AND AS DIRECTED. COR MUST PROVIDE APPROVAL PRIOR TO REMOVAL.

FISH AND OTHER ORGANISMS MANAGEMENT

GENERAL

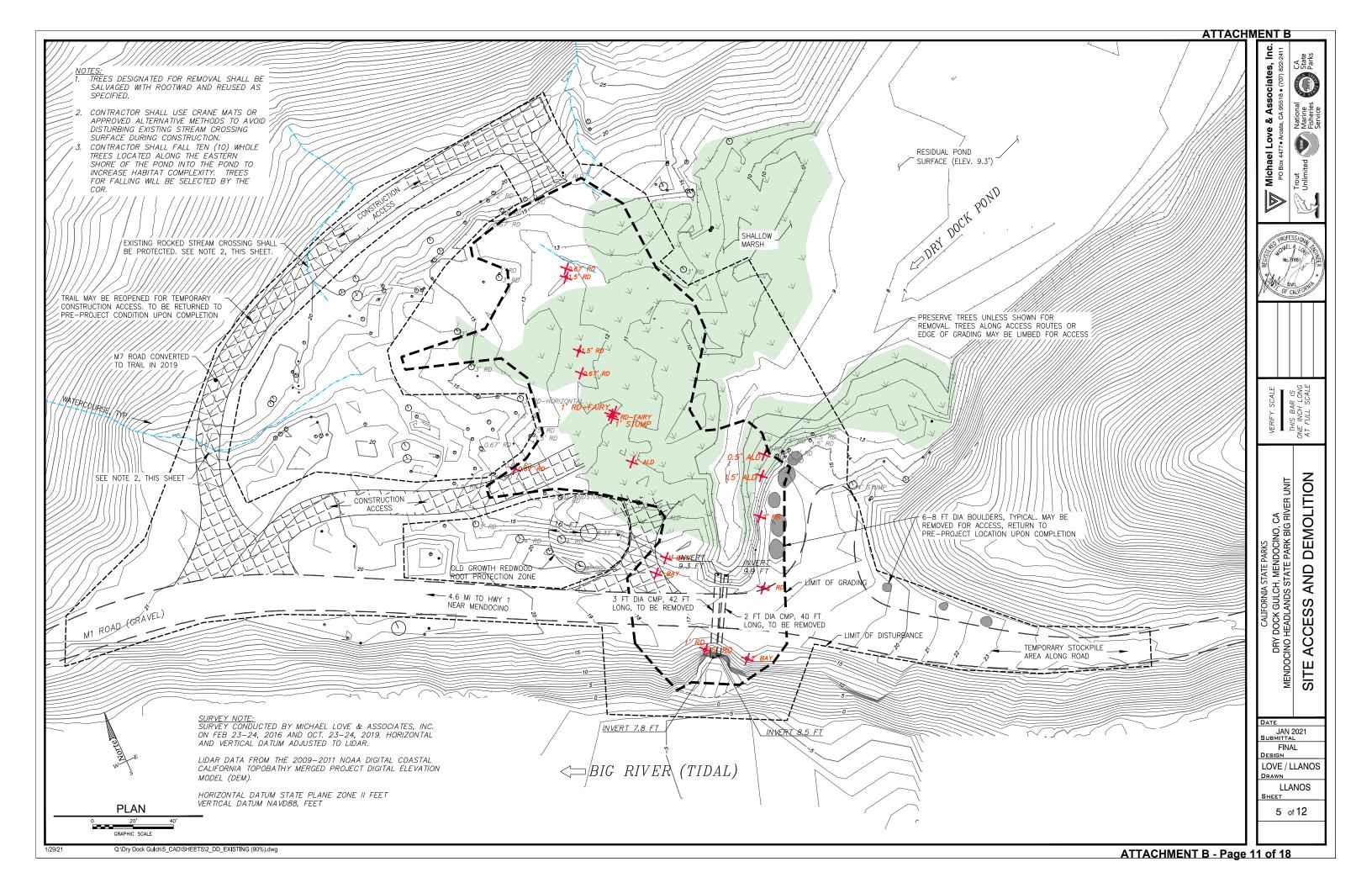
- THE PROJECT AREA WILL LIKELY INCLUDE FISH, AMPHIBIANS AND OTHER SPECIES THAT NEED TO BE REMOVED PRIOR TO ANY IN-CHANNEL WORK, THE CONTRACTOR SHALL WORK WITH THE CONTRACT OWNER'S BIOLOGIST TO COORDINATE THE REMOVAL OF FISH AND OTHER SPECIES
- NO WORK MAY BE COMPLETED UNTIL THE WATER MANAGEMENT PLAN HAS BEEN APPROVED.

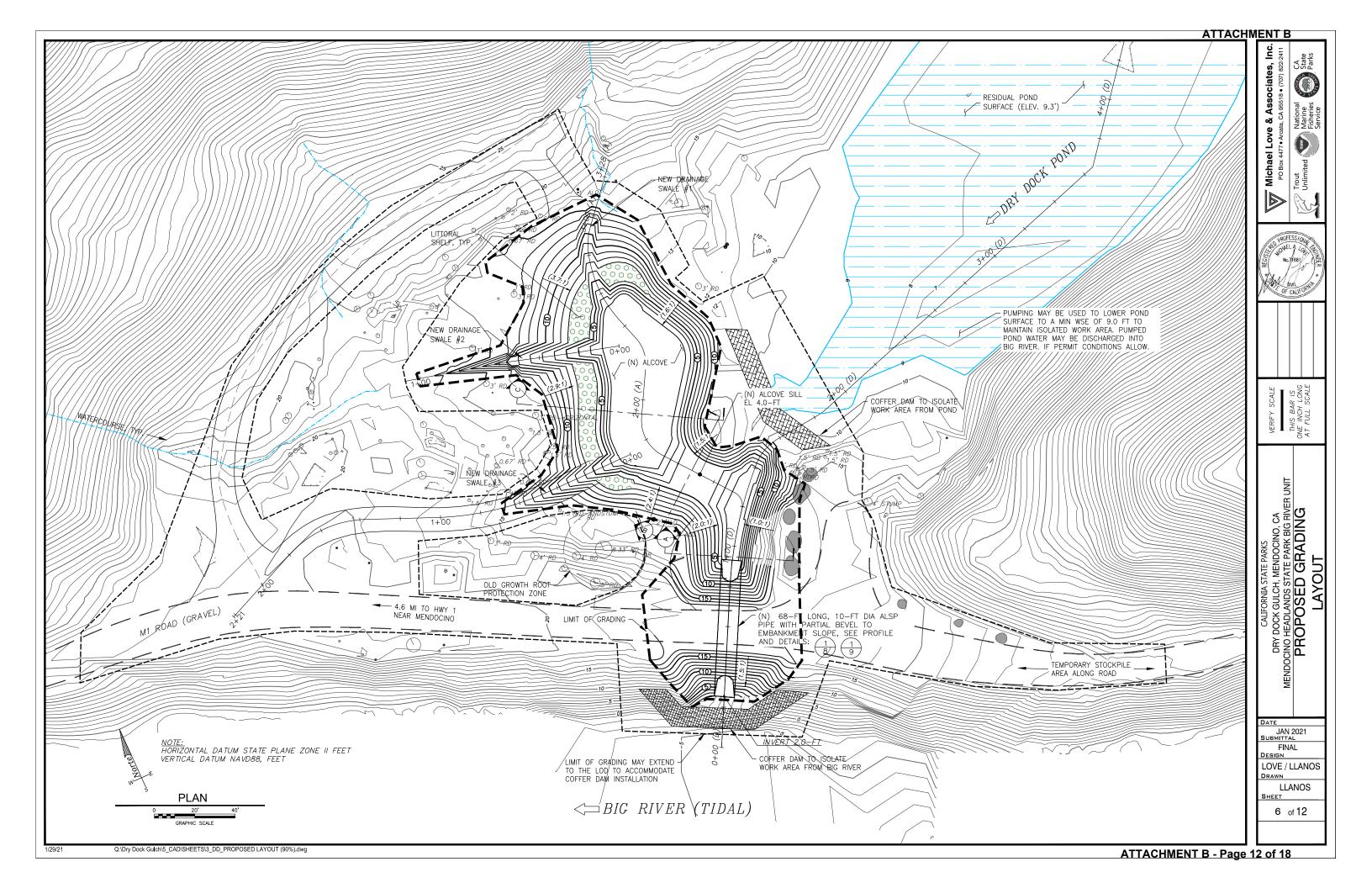
PRODUCTS

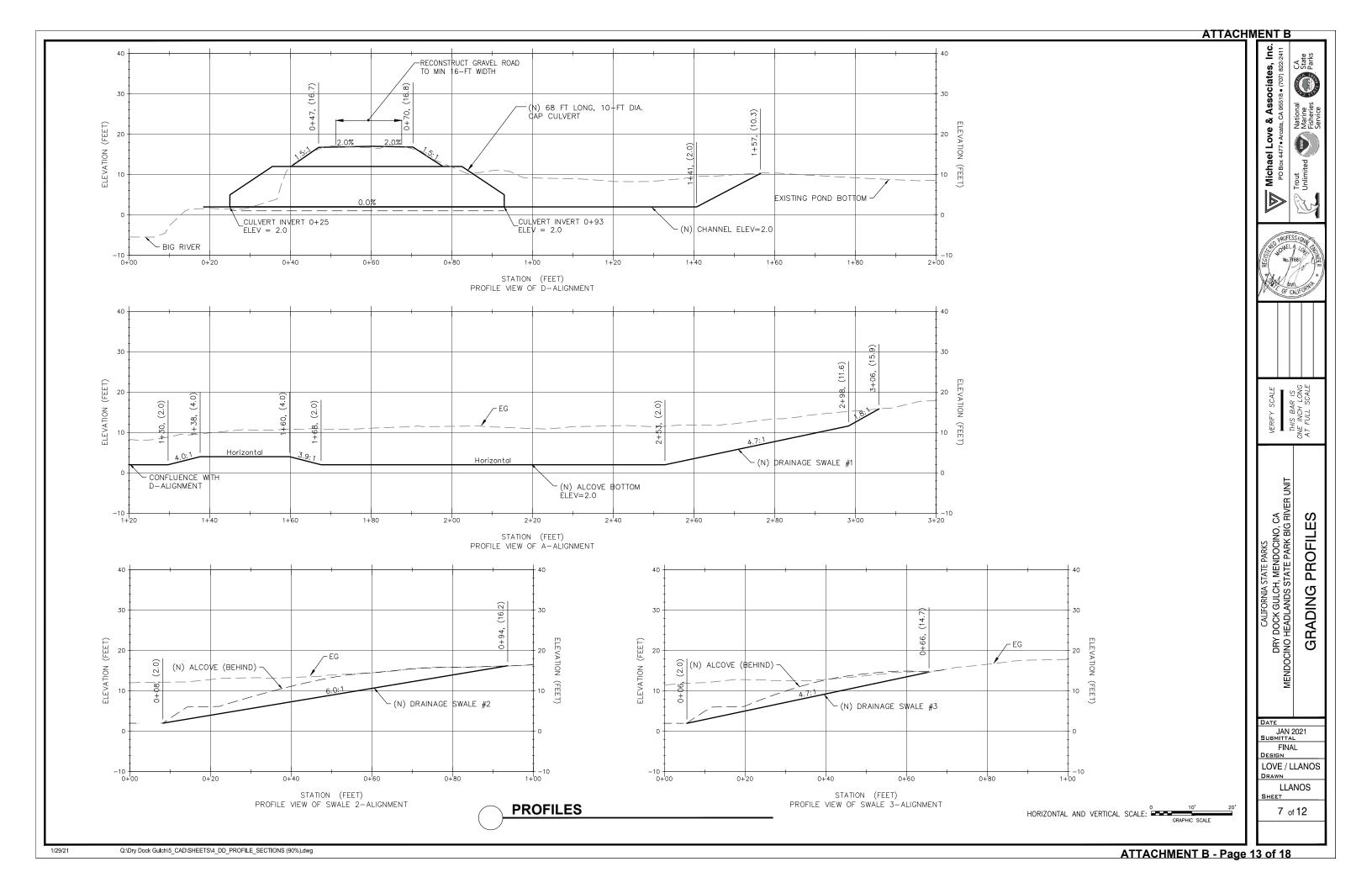
1. REFER TO CONTRACT DRAWING DETAILS FOR PRODUCT INFORMATION.

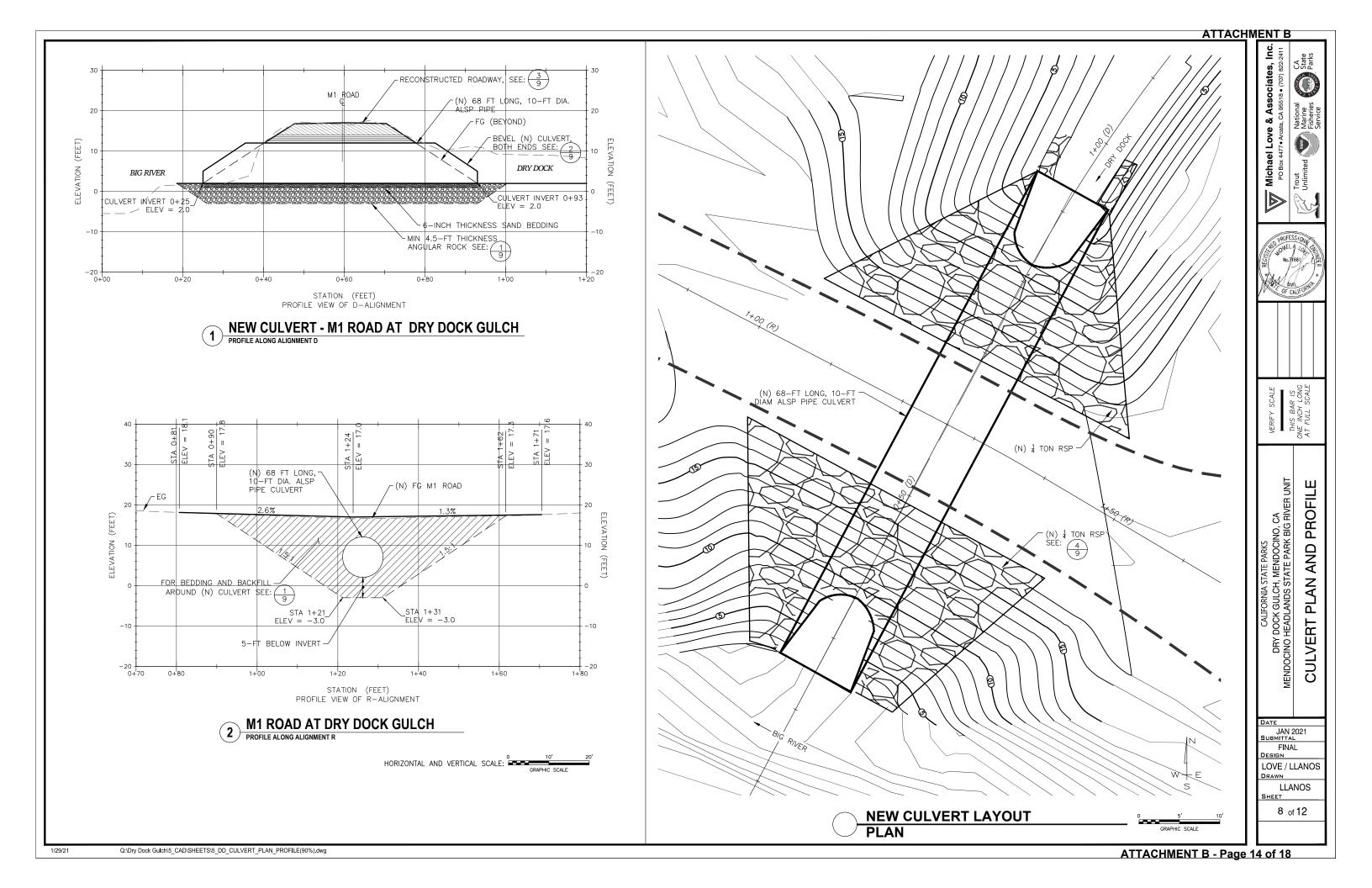
EXECUTION

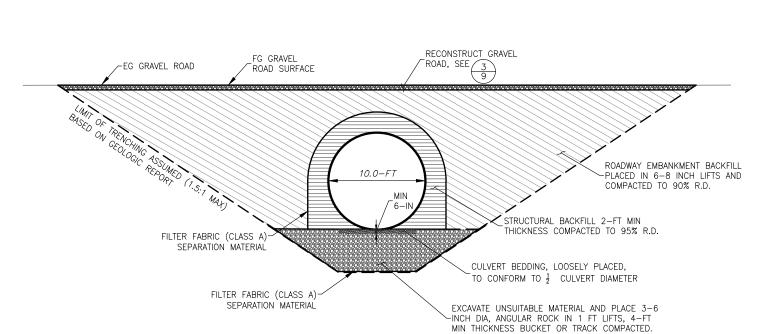
THE CONTRACTOR MUST COORDINATE WITH THE CONTRACT OWNER AND THEIR BIOLOGIST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CONTRACT OWNER AT LEAST ONE WEEK PRIOR TO NEEDING THE BIOLOGIST'S SERVICES.





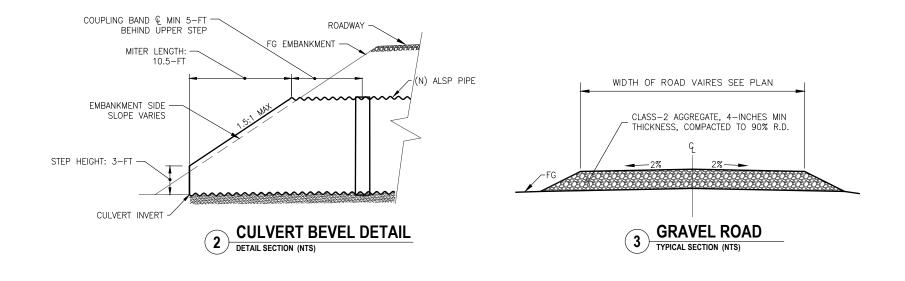






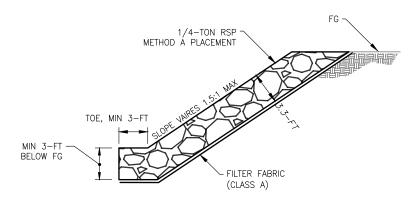
CULVERT BACKFILL

TYPICAL SECTION (NTS)



CULVERT SPECIFICATIONS

- ALUMINUM STRUCTURAL PLATE PIPE (ALSP PIPE) SHALL HAVE A NOMINAL PLATE THICKNESS OF 0.125" AND 9" X 2 ½" CORRUGATIONS.
- 2. THE ALSP PIPE MUST COMPLY WITH CALTRANS STANDARD SPECIFICATIONS SECTION 67-2.
- 3. THE ALSP PIPE SHALL BE ASSEMBLED IN ACCORDANCE WITH THE SHOP DRAWINGS PROVIDED BY THE MANUFACTURER AND PER THE MANUFACTURER'S RECOMMENDATIONS.
- 4. END SECTIONS OF CULVERT SHALL CONTAIN BEVELED ENDS AT A 1.5H:1V SLOPE, OR AS SPECIFIED IN APPROVED SHOP DRAWINGS.
- CONTRACTOR RESPONSIBLE FOR PROCUREMENT AND DELIVERY OF CULVERT.
- CONTRACTOR SHALL SUBMIT MANUFACTURER'S SHOP DRAWINGS TO COR FOR APPROVAL. COR MUST APPROVE SHOP DRAWINGS PRIOR TO PROCUREMENT AND DELIVERY OF CULVERT.
- CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION AND BACKFILL. IF MANUFACTURERS SPECIFICATIONS DIFFER FROM THESE DESIGN DRAWINGS, CONTRACTOR SHALL NOTIFY THE COR FOR RESOLUTION.





Michael Love & Associate
PO Box 4477 • Arcata, CA 95518 • (707)
Trout
National

ATTACHMENT B



OF CALIFORNIA

VERIFY SCALE
THIS BAR IS
ONE INCH LONG
AT FULL SCALE

' DOCK GULCH, MENDOCINO, CA HEADLANDS STATE PARK BIG RIVER UNIT CULVERT DETAILS

CALIFORNIA ST DRY DOCK GULCH, I MENDOCINO HEADLANDS ST

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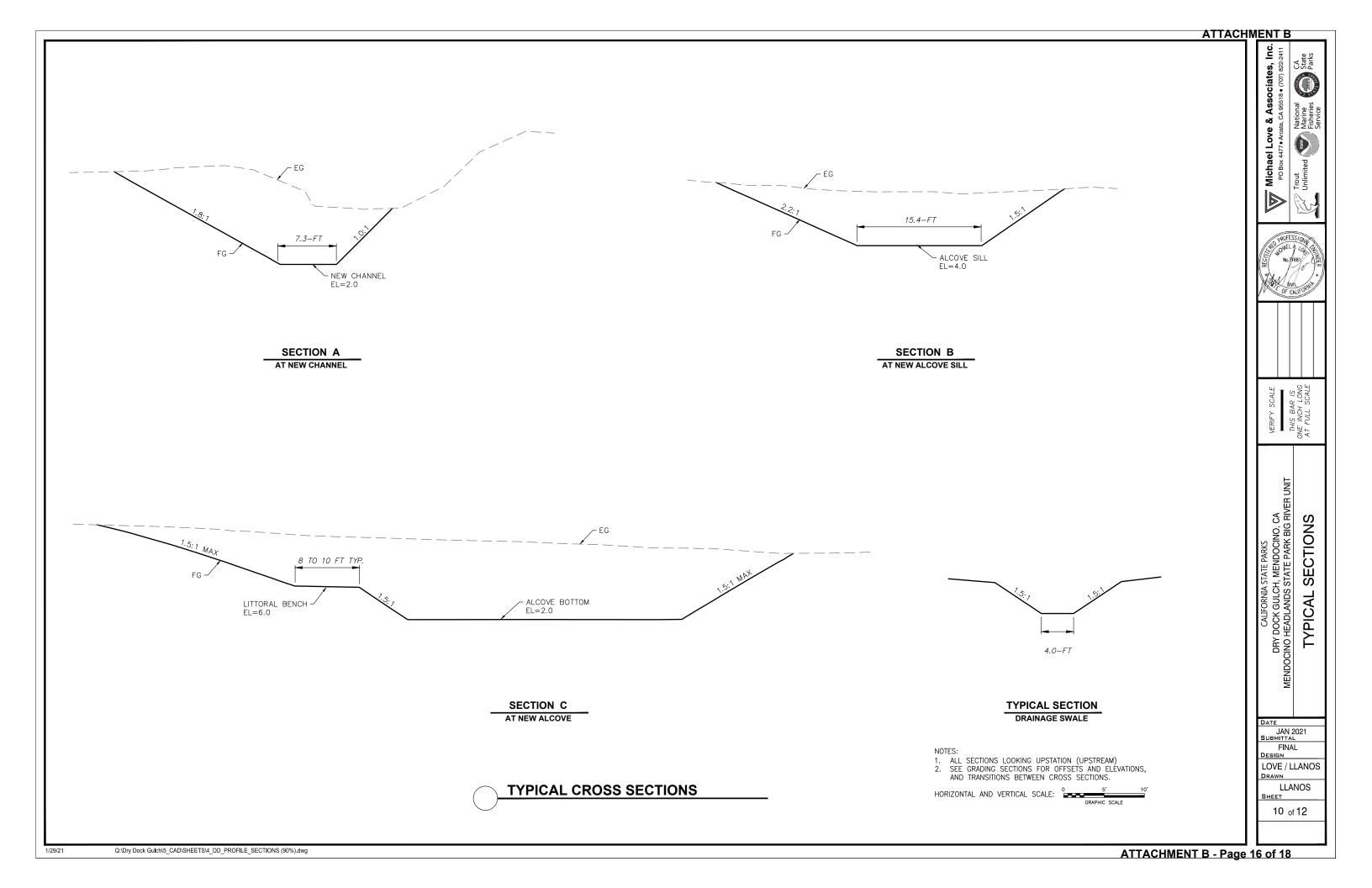
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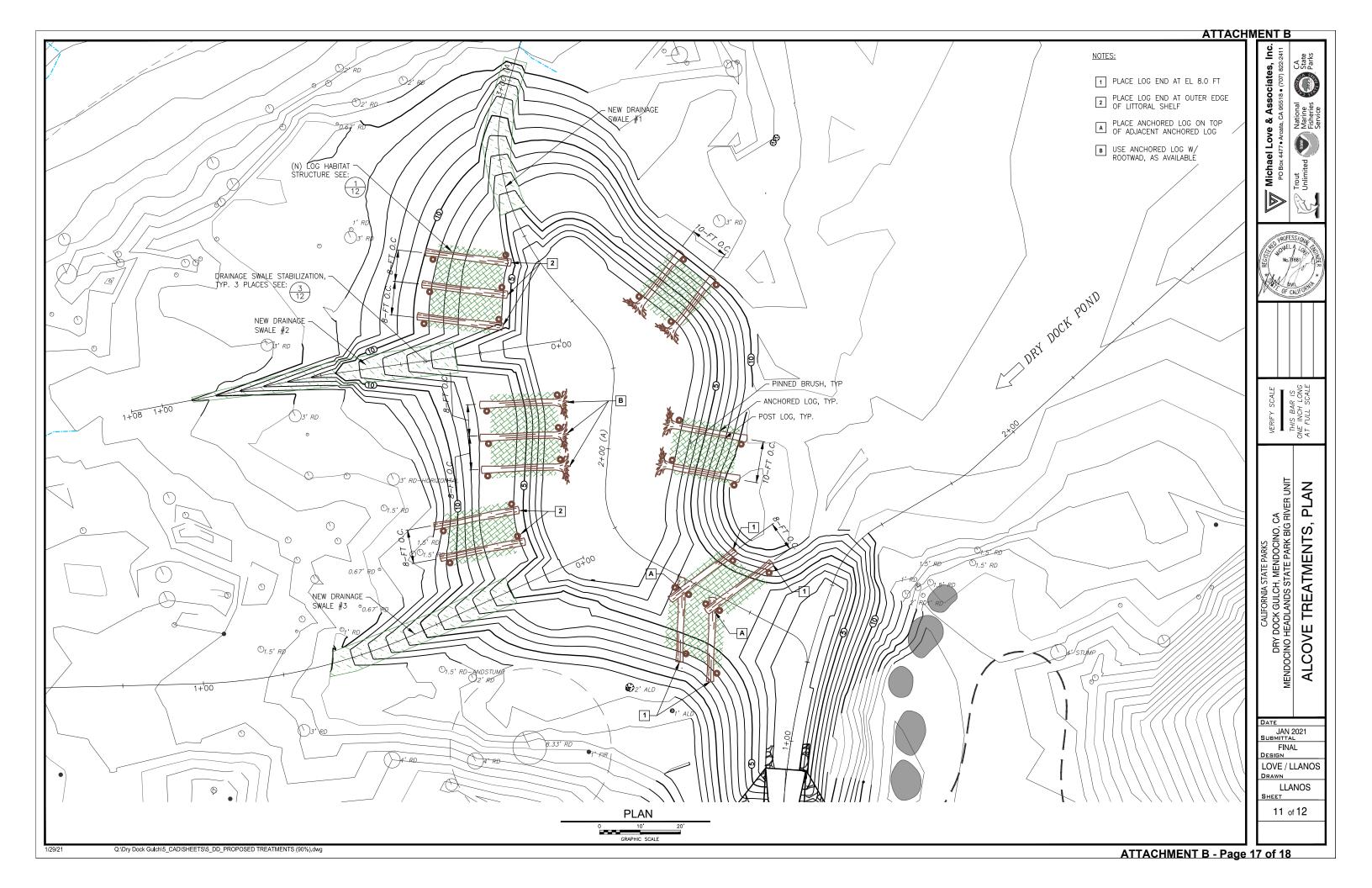
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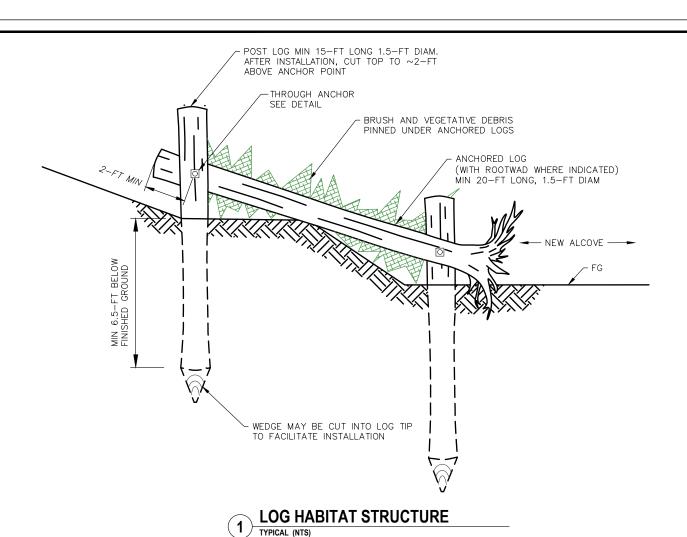
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9 of 12

SHEET







SPECIFICATIONS FOR LOG STRUCTURES

MATERIAL SPECIFICATIONS

- ALL LOGS SHALL BE SOUND, NON-ROTTED AND UNBROKEN DOUGLAS FIR. REDWOOD OR OTHER APPROVED WOOD.
- 2. ALL LOGS SHALL BE DEBARKED.
- 3. LOGS SHALL MEET THE DIMENSIONS SPECIFIED. LOG LENGTHS SHALL INCLUDE THE ROOTWAD, WHERE A ROOTWAD IS SPECIFIED.
- 4. DIAMETER SHALL BE MEASURED AT THE MIDPOINT OF THE LOG.
- LOG LENGTH SHALL NOT BE ACCOMPLISHED WITH JOINING OF MULTIPLE LOGS.
- BRUSH SHALL CONSIST OF SALVAGED TREE LIMBS AND WOODY VEGETATION (PREFERABLY 10-FEET LONG) CLEARED AS PART OF THE PROJECT.
- 7. ANCHORING SHALL CONFORM TO CONTRACT DOCUMENTS.

INSTALLATION SPECIFICATIONS

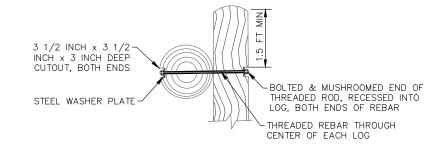
- LOG STRUCTURES SHALL BE INSTALLED AS SPECIFIED ON THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE COR. LOGS PLACED NOT MEETING COR'S APPROVAL SHALL BE REMOVED AND RESET.
- 2. EXCAVATE TRENCH AS NECESSARY.
- 3. LOGS SHALL BE DEBARKED AT ANCHOR POINTS TO OBTAIN A TIGHT WOOD-WOOD CONNECTION.
- 4. PILES SHALL BE DEBARKED ALONG THEIR ENTIRE LENGTH.
- 5. INSTALL AND ANCHOR LOGS AS SPECIFIED IN LOCATIONS SPECIFIED.
- INSTALL BRUSH CONCURRENT WITH LOG INSTALLATION, IF SPECIFIED.
- 7. BACKFILL TRENCH WITH COMPACTED SALVAGE BACKFILL TO SPECIFIED COMPACTION.

SPECIFICATION FOR ANCHORING LOG STRUCTURES MATERIAL SPECIFICATIONS

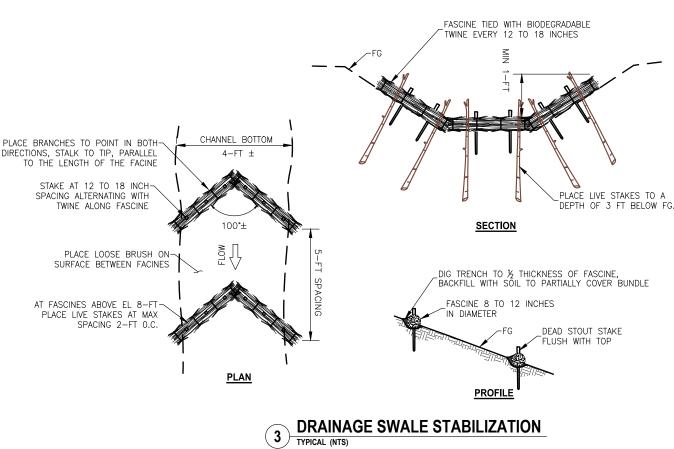
- LOG TO LOG ANCHORING SHALL CONSIST OF THROUGH ANCHORS. LOG ANCHORING SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 2. THREADED REBAR, WASHER AND NUT SHALL BE STEEL. ALL-THREAD IS ACCEPTABLE.
- 3. THREADED REBAR SHALL BE A MINIMUM DIAMETER OF 1 INCH.
- STEEL WASHER PLATE SHALL BE MIN 3.5-INCH X 3.5-INCH X 3/8 OR 5/16-INCH THICK STEEL.

INSTALLATION SPECIFICATIONS

- LOG ANCHORING SHALL BE INSTALLED AS SPECIFIED ON THE CONTRACT DOCUMENTS.
- 2. ALL LOGS SHALL BE ANCHORED WHERE SPECIFIED.
- REBAR SHALL BE INSERTED THROUGH THE CENTER OF EACH LOG AND BOLTED AS SPECIFIED. REBAR, WASHER AND NUT SHALL BE FULLY RECESSED WITHIN LOG. CUT REBAR WITHIN 1-IN OF NUT.
- TO MINIMIZE MOVEMENT OF LOGS, ANCHORING SHALL BE INSTALLED SUCH THAT CONNECTIONS ARE TIGHT, AND REBAR ENDS ARE MUSHROOMED AT THE BOLT.
- 5. ANCHORS SHALL BE LOCATED A MINIMUM OF 1.5-FOOT FROM THE END OF THE LOG.



THROUGH ANCHOR DETAIL
TYPICAL (NTS)



ATTACHMENT B CA 3 RIVER L Ш EATME \sim JAN 2021 FINAL LOVE / LLANOS DRAWN LLANOS SHEET 12 of 12

ATTACHMENT B - Page 18 of 18

RESOLUTION NO. 2023-

RESOLUTION OF THE MENDOCINO COUNTY BOARD OF SUPERVISORS AUTHORIZING THE PROCESSING OF A CONSOLIDATED COASTAL DEVELOPMENT PERMIT BY THE CALIFORNIA COASTAL COMMISSION FOR TROUT UNLIMITED TO RESTORE AND ENHANCE ALCOVE HABITAT FOR JUVENILE AND ADULT SALMONIDS IN DRY DOCK GULCH IN THE MENDOCINO AREA

WHEREAS, the Coastal Act was amended by Senate Bill 1843 effective January 1, 2007, which allows for a consolidated permitting process for projects for which the Coastal Development Permit authority is shared by a local government and the California Coastal Commission; and

WHEREAS, SB 1843 requires that the applicant, the local government, and the California Coastal Commission agree to the consolidation; and

WHEREAS, the proposed habitat restoration project consisting of replacement of an undersized perched stream crossing, channel construction, pond conversion, off-channel alcove construction, and associated improvements at Dry Dock Gulch in the Mendocino Area is under the coastal development permit authority of both Mendocino County and the California Coastal Commission and would otherwise require a Coastal Development Permit from both Mendocino County and the California Coastal Commission for the improvements located within each jurisdiction; and

WHEREAS, pursuant to Public Resources Code Section 30601.3, added by SB 1843, consolidation may only proceed where public participation is not substantially impaired by the consolidation; and

WHEREAS, public participation will not be substantially impaired as the California Coastal Commission will hold a public hearing, which may be attended by all interested parties (by either being present during a properly noticed California Coastal Commission meeting or by timely submitting comments in advance of a meeting) and the consolidation of the permit process will allow for this project, which involves the replacement of an undersized perched stream crossing, channel construction, pond conversion, off-channel alcove construction, and associated improvements at Dry Dock Gulch in the Mendocino Area, to be evaluated in its entirety.

NOW, THEREFORE, BE IT RESOLVED that the Mendocino County Board of Supervisors authorizes the California Coastal Commission to accept and process a consolidated Coastal Development Permit application for the Trout Unlimited for the replacement of an undersized perched stream crossing, channel construction, pond conversion, off-channel alcove construction, and associated improvements at Dry Dock Gulch in the Mendocino Area finding that pursuant to Public Resources Code Section 30601.3 consolidation for this project is appropriate as public participation will not be substantially impaired by the consolidation.

The foregoing Resolution introduced by Supervisor , seconded by Supervisor , and carried this 25th day of April, 2023, by the following vote:

AYES: NOES: ABSENT:

WHEREUPON, the Chair declared said Resolution adopted and SO ORDERED.

ATTEST:	DARCIE ANTLE Clerk of the Board	GLENN MCGOURTY, Chair Mendocino County Board of Supervisors	- 3	
Deputy		I hereby certify that according to the provisions of Government Code Section 25103, delivery of this document has been made.		
APPROVED AS TO FORM: CHRISTIAN M. CURTIS County Counsel		BY: DARCIE ANTLE Clerk of the Board		
		Deputy	_	