

PROJECT ADDRESS:

The Smith Ranch 28761 N. Highway 1 Fort Bragg, CA 95437

TEN MILE RIVER HABITAT ENHANCEMENT PHASE 2 - SOUTH FORK

PREPARED FOR: THE NATURE CONSERVANCY SPONSORED AND FUNDED BY: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE





SITE LAYOUT SCALE: 1" = 350'



Sheet Number	Sheet Title	Rev. 1
1	TITLE SHEET	
2	CONSTRUCTION NOTES	
3	SITE PLAN	
4	ACCESS & SITE PREP PLAN	
5	SF 6 & 7 PLAN	
6	SF 8 & 9 PLAN	
7	PROFILES & SECTIONS	
8	EROSION CONTROL PLAN	
9	REVEGETATION PLAN	
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SURVEY NOTES

LIMITED TOPOGRAPHIC GROUND SURVEY PERFORMED BY PCI ON 11/10/2022 AND 8/1/2023. SURROUNDING TOPOGRAPHIC LIDAR DATA OBTAINED FROM NOAA AND IS APPROXIMATE ONLY. LIDAR FLOWN MARCH 2017. HORIZONTAL DATUM: NAD83 CALIFORNIA STATE PLANE (ZONE 2)

VERIFY SCALES

OF 11

VERTICAL DATUM: NAVD 1988 \triangle HORIZONTAL AND VERTICAL CONTROL AS SHOWN

PROJECT LOCATION: LAT: 39°31'59" N LONG: 123°44'48" W

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GENERAL CONSTRUCTION NOTES:

A. LEGAL

A1. Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property. This requirement shall be made to apply continuously and not be limited to normal working hours. Construction Contractor shall hold harmless, indemnify and defend the Owner (The Nature Conservancy), the Project Designer and their consultants, and each of their officers, employees, and agents.

B. INSPECTION / CONSTRUCTION REVIEW

B1. Project Designer shall provide construction review related to site work and channel improvements shown on this plan set. Project Biologist shall conduct and oversee biological protection according to permit conditions.

B2. A pre-construction site meeting will be held with Contractor, Project Designer, Project Biologist, and Owner Representative to determine review points that require approval before continuing work, and discuss construction methods, work sequence, staging and spoils areas, protection of biological resources, permit conditions, property operations, schedule, and observation/inspection points and frequency.

B3. Construction observation points: Project Designer shall review: All grade staking and layout of features prior to construction.

- 2.
- Salvage of topsoil. After excavation to subgrade.
- During and after placement of logs & rootwads. 4
- During vertical & angled log anchor placement to verify depth.
- After topsoil placement to finish grade & before revegetation/seeding/mulching and erosion control measures.
- After erosion control measures are installed.
- During plant installation and after. At job completion.

C. GENERAL CONDITIONS C1. This plan set and these general construction notes are not meant to fully describe all materials and methods required to construct the Ten Mile River South Fork Habitat Enhancement - Phase 2 Project.

C2. All construction materials and workmanship shall conform to the Ten Mile River South Fork Habitat Enhancement - Phase 2 Project plans and project specifications.

C3. Contractor shall be fully responsible for being familiar with the provisions and requirements contained in the Ten Mile River South Fork Habitat Enhancement -Phase 2 Project plans. Contractor shall have a copy available at the job site at all times.

C4. Contractor shall provide emergency telephone numbers to the police, fire, and public works departments and keep them informed daily regarding street closures and traffic control.

C5. Contractor shall notify the engineer of record five (5) working days prior to beginning work on the project.

C6. Construction staging areas and temporary access to be coordinated with Owner Representative and Project Designer prior to construction. Staging will occur within project area and as approved by Owner Representative and Project Designer.

C7. Dewatering: Contractor shall dewater site in accord with the Project Plans and Specifications. Contractor shall use temporary dewatering systems to control minor surface flow and ground water seeps through the work area. Contractor shall coordinate dewatering activities with Project Biologist and comply with all required permit conditions.

C8. All turbid water must be controlled and contained by Contractor. Turbid water shall not be discharged to the flowing river. Turbid water may be discharged in fields adjacent to project areas.

C9. Erosion Control Plan represents the minimum erosion control required. Project duration shall be from June 15 to October 12 to qualify for rainfall erosivity waiver. C10. Species Protection: All work shall be conducted in conformance with regulatory permit conditions.

C11. No work shall commence prior to 7am except in an emergency. No work shall occur on weekends unless authorized by Owner Representative.

C13. Contractor to repair any fences or ground disturbance required for access.

D. UTILITIES

D1. Prior to construction, Contractor is responsible for locating all existing underground utilities through coordination with the Owner Representative, Underground Service Alert, and the various utility companies. Contractor shall protect all identified utilities.

D2. If utilities are required to be relocated, the Contractor shall submit a utility relocation plan for approval by Project Engineer as well as required County and Local agencies.

E. ENVIRONMENTAL AND CULTURAL RESOURCES PROTECTION

E1. Contractor is responsible for complying with all regulatory permit conditions.

E2. Vegetation Protection: Tree protection fencing shall be installed as shown on plans to protect existing vegetation beyond the project limits. Within the project area, protect trees designated to remain with temporary fencing located around the tree dripline. Where possible, do not operate equipment within the drip line of trees. Steel plates shall be used when operation within the drip line of trees creates excessive compaction.

E3. All vehicles and equipment on the site must not leak any type of hazardous materials such as oil, hydraulic fluid, or fuel. Vehicles and equipment must be inspected and approved by Owner Representative before use. Fueling shall take place outside of the riparian corridor.

E4. Contractor shall have emergency spill clean up gear (spill containment and absorption materials) and fire equipment available on site at all times. These items are to be reviewed by Owner Representative before construction begins.

E5. Access to the site must be reviewed with the Owner Representative and Project Designer. Exact location of access way and type of vehicles used shall be submitted prior to construction start up & approved by Owner Representative and Project Designer. Contractor shall be responsible for repairing, at their own cost above and beyond the scope of work, any damage to property caused by access not approved by the Owner Representative and Project Designer.

E6. Trash, litter, construction debris, cigarette butts, etc., must be stored in a designated area approved by the Owner Representative or removed from the site at the end of each working day. Upon completion of work, Contractor is responsible for removing all debris to the satisfaction of the Owner Representative.

E7. Construction personnel shall be briefed about the potential to uncover prehistoric resources, including chert or obsidian flakes, projectile points, mortars and pestles, dark friable soil containing shell and bone dietary, heat-affected rock, or human burials, as well as historic resources such as stone or adobe foundations or walls, structures and remains with square nails, and refuse deposits or bottle dumps. Construction personnel shall be instructed to avoid areas containing potential cultural resources and that collection of cultural resources is forbidden.

E8. Should potential cultural resources be discovered, work will be discontinued until the area can be evaluated by a qualified archaeologist. If human remains are encountered, all work must stop in the immediate vicinity of the discovered remains, and the County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed. If the remains are deemed to be Native American and prehistoric, the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" can be designated

F. TEMPORARY CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

F1. Dust Control: Contractor shall apply water as needed to minimize wind-blown dust.

F2. Sediment Control: Contractor shall employ Best Management Practices to prevent the discharge of sediment or turbid water beyond grading limits.

F3. All permanent erosion control material shall be 100% biodegradable and made of all natural materials (no plastic).

F4. In accord with California Air Resources Board regulations, heavy equipment shall not idle for over 5 minutes.

SUBMITTALS:

Contractor shall provide all submittals identified in the Plans and Project Specifications to the Project Designer for review and approval at least three (3) business days prior to bringing materials onsite.

Submittals shall include:

- Water Management Plan Turbidity Control Plan
- Fish screen materials
- Erosion control materials
- Large wood structure pinning materials

Submittal Notes

- Contractor shall submit a Water Management Plan to Project Designer for approval. Plan shall demonstrate means and methods to be used to manage river and tidal flow while meeting required permit conditions. Note that the lower project reach water surface is tidally influenced.
- Contractor shall submit a Turbidity Control Plan to project engineer for approval. If not fully dewatering the project reach, Turbidity Control Plan shall demonstrate proposed means, methods, sequencing, and timing to complete required work within tidally influenced work areas while meeting required permit conditions.



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CONSTRUCTION QUANTITY NOTES:

1. Construction quantities shown are approximate and existing ground conditions may have changed since topography data was collected. Contractor is responsible for determining proper earthwork, rock, and material quantities.

2. Soils for off-haul volume numbers do not account for compaction or expansion of materials.

APPROXIMATE EXCAVATION QUANTITIES:

LOCATION	CUT (CY)	FILL (CY)
SF 6 and Connector Channels	2,160	0
SF 7	12,010	0
SF 8	310	0
Topsoil to salvage from SF 6*	810	0
Topsoil replaced at portions of SF 6	0	225
Topsoil replaced at portions of SF 7	0	525
Topsoil replaced at SF 8	0	60
Total	15,290	810

*Note: SF6 cut quantity does not include soil for topsoil salvage. Topsoil to only be stripped from SF 6 to avoid invasive plant seed. Topsoil to be stockpiled onsite in staging area and replaced at end of project at each site as shown on Erosion Control Plan.

LOG STRUCTURE MATERIALS:

Log, rootwad, and pin quantities are the minimum as shown on these Contract Drawings. Additional materials may be requested by Project Designer during construction.

LOG SCHEDULE - MINIMUM:

LOG SIZE	LOG QTY	LOGS WITH ROOTWADS QTY
18" x 20'	0	10
18" x 25'	6	1
18" x 30'	6	15
18" x 40'	1	0
18" x 55' or longer (whole trees)	0	12
Vertical Log Anchors	35	N/A

OTHER MATERIALS - MINIMUM

MATERIAL	QTY
Pins	53

APPROXIMATE PROJECT EXTENTS:

1. Total excavation: 15,290 cy

- 2. Total area in project limits including staging and access: 7.1 ac
- 3. Total area in extent of grading: 2.3 ac

4. Length of water management in channel: 810 ft 5. Small diameter willow and alder removal area (trees to be reused in

large wood structures): 1.2 ac







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Acad File Name: G: \CAD2020\TheNatureConservancy\TNCTMDESIGN2_\Ten Mile South Fork\Dwg:





		ZONES		P	8		1	N
		201120	EMERGENT	SEASONAL	WET MEADOW	PLANT TOTAL	PLANT SIZE	PROTECTION
	Latin Name	Common Name	QTY	QTY	QTY			
TREES							ar a shiilii daa waxaa ahaa ahaa ahaa ahaa ahaa ahaa a	
	Sequoia sempervirens	Redwood		2	3	5	ТР	CAGE
btotal						5		
RASSES, SEDGES & RUSHES	Agrostis exarata	spike bentgrass		445	1045	1490	STUB	-
	Deschampsia cespitosa	tufted hairgrass		934	1330	2264	STUB	-
	Carex obnupta	slough sedge	1522	751		2273	D16	-
	Carex tumulicola	split awn sedge			1045	1045	STUB	-
	Eleocharis macrostachva	creeping spikerush	1572	445		2017	STUB	-
	Equisetum hvemale ssp. affine	scouring-rush		751	760	1510	STUB	-
	Equisetum telmateia ssp. braunii	giant horsetail	1195			1195	STUB	
	Juncus balticus	Baltic rush	4592	1056		5648	STUB	
	Juncus patens	grav rush		751	760	1510	STUB	-
	Juncus phaeocenhalus	brown-headed rush		628		628	STUB	_
	Juneus phaeocephaius	chairmaker's bulrush common		028		020	5100	
	Schoenoplectus americanus	throo squaro	1105			1105	CTUR	
	Schoenonlectus nungens	common throosquare	2227			2227		
	Schoenopiectus puligens	small fruited bulrush	2327	751		4210		
total	scripus microcurpus		5400	/31		4210		
						27313		
PERENNIAL HERBS								
	Alisma triviale	Water plantain	515			515	4"	
	Oenanthe sarmentosa	water parsley	742	445		1187	4"	-
	Potentilla anserina ssp. pacifica	Pacific silverweed		445	760	1205	4"	-
	Scrophularia californica	bee plant		262	474	736	D16	-
	Stachys chamissonis	coast hedge nettle		262	474	736	D16	-
	Symphyotrichum chilense	Pacific aster			760	760	1 GAL	-
								-
								-
total						5139		
total						5139		

