



FOREST SERVICE - REGION SIX



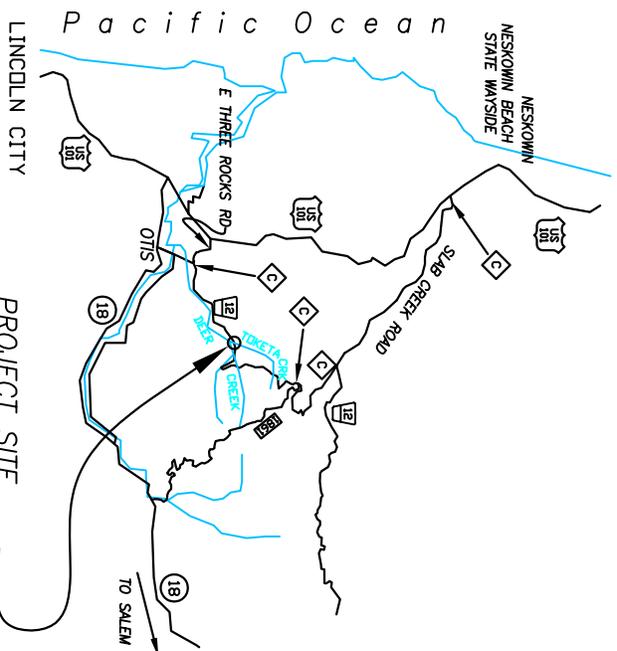
SIUSLAW NATIONAL FOREST

HEBO RANGER DISTRICT

DRAWINGS FOR PROPOSED

INDEX TO SHEETS	
NO.	DESCRIPTION
1	TITLE AND VICINITY MAP
2	ESTIMATE OF QUANTITIES
3	BOX CULVERT PLAN & PROFILE
4	PRECAST BOX CULVERT & FOOTINGS
5	WING WALLS & STREAM DETAILS
6	DEWATERING & SEDIMENT CONTROL PLAN
7	ROADWAY DETAILS

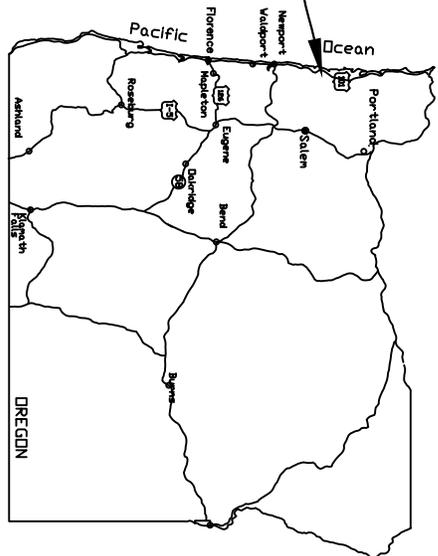
TOKEITA CREEK FISH PASSAGE



PROJECT SITE
 OLD SCENIC HIGHWAY 101
 (FOREST ROAD 12)
 2.25 MI. FROM STATE ROUTE 18
 T6S R10W SEC. 21
 LAT. 44.0381
 LON. -123.9175

ROAD CLOSED AHEAD SIGNS
 NOTE: 'OLD SCENIC HIGHWAY 101' EXTENDS FROM OTIS TO HIGHWAY 101 VIA ROAD 12 (ON FOREST SERVICE PROPERTY) AND SLAB CREEK ROAD (ON COUNTY PROPERTY)

PROJECT LOCATION MAP



KEY MAP OF OREGON SHOWING LOCATION OF PROJECT
 Project is located in Lincoln County

DESIGNED BY:	DATE
REVIEWED BY:	DATE
APPROVED BY:	DATE
LINE OFFICER	DATE
FOREST ENGINEER	DATE

ESTIMATE OF QUANTITIES

ITEM NO.	METHOD OF MEASUREMENT	UNIT	QUANTITY	REMARKS
Reconstruction of Old Scenic Highway 101 (Forest Road 12) 2.25 miles from State Route 18				
171(04)	Construction Staking, Precision C, method I	LSQ	LS	All Req'd
201(03)	Clearing and grubbing, slash treatment methods for tops and limbs 11, logs 8, and stumps 8, utilization of timber n/a	LSQ	LS	All Req'd
202(02)	Removal of existing 6x6' concrete box culvert & wingwalls, disposal, method A	AQ	Eq	1
204(19)	Soil erosion and pollution control	LSQ	LS	All Req'd
206(07)	Structural excavation	LSQ	LS	All Req'd
251(02)	Placed riprap, class 5, method A	VQ	Ton	53
251(15)	Placed Streambed Simulation Rock Bed Class 15, method A	DQ	CY	100
304(11)	Crushed Aggregate, type base, grading E, compaction B	VQ	Ton	193
403 (01)	Hot asphalt concrete plant mix	VQ	Ton	81
552(03)	Structural concrete, class A(AE), for pre-cast box footings	AQ	CY	32
553A(01)a	Precast concrete member, wing walls	AQ	Eq	4
553A(01)b	Precast concrete member, 19'11" span x 7" rise box culvert sections	AQ	Eq	12
554(03)	Reinforcing steel	LSQ	LS	All Req'd
601(01)	Mobilization	LSQ	LS	All Req'd
				Traffic control incidental.

Designed By: rgp
 Drawn By: rgp
 Reviewed By:

▲	
▲	
▲	
REV	DATE

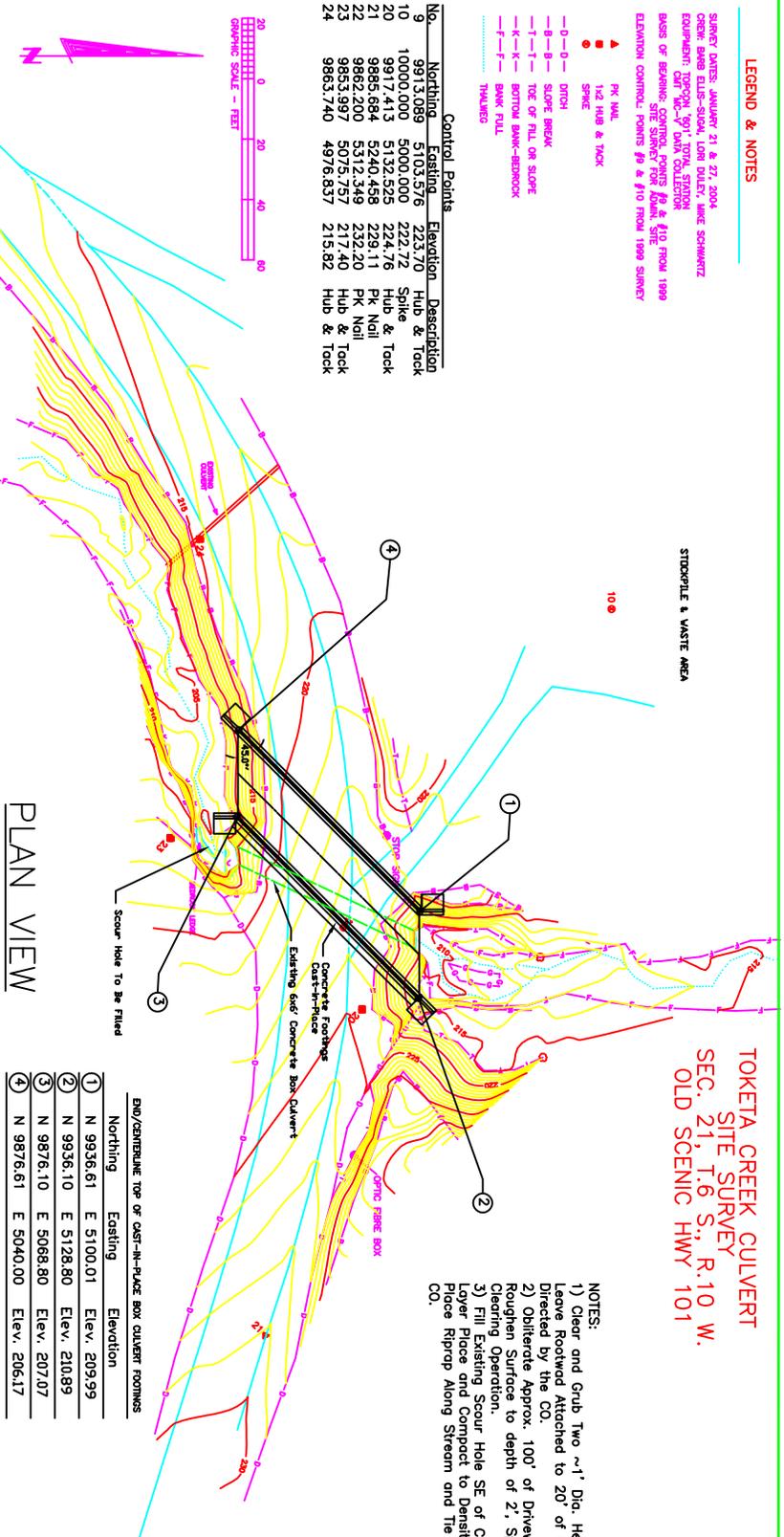
TOKETA CREEK FISH PASSAGE ESTIMATE OF QUANTITIES



LEGEND & NOTES

- SURVEY DATES: JANUARY 21 & 27, 2004
 CREW: BARR ELLIS-SOON, LOAN BULLY, AME SCHWARTZ
 EQUIPMENT: DYNAMIC SYSTEMS, LEICA DISTO STATION
 BASIS OF BEARING: CONTROL POINT #8 & #10 FROM 1999
 SITE SURVEY FOR LOCAL SITE
 ELEVATION CONTROL POINT #9 & #10 FROM 1999 SURVEY
- ▲ PK NAIL
 - 1/2" NAIL & TACK
 - STAKE
 - 0-0 — OTHER
 - 8-8 — SLOPE BREAK
 - 1-1 — TOE OF FILL OR SLOPE
 - K-K — BOTTOM BANK-BEDROCK
 - F-F — BANK FILL
 - THALWEG

No.	Northing	Easting	Elevation	Description
9	9913.089	5103.576	223.70	Hub & Tack
10	10000.000	5000.000	222.72	Spike
20	9917.413	5132.525	224.76	Hub & Tack
21	9885.684	5240.458	229.11	PK Nail
22	9882.200	5312.349	232.20	PK Nail
23	9853.997	5075.757	217.40	Hub & Tack
24	9863.740	4976.837	215.82	Hub & Tack

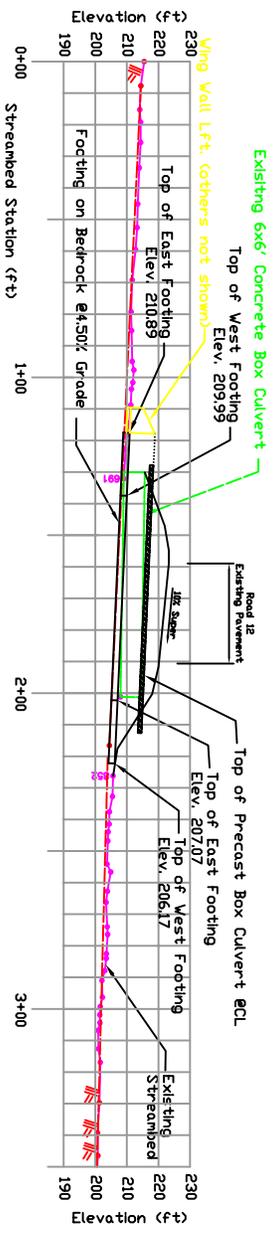


TOKETA CREEK CULVERT
SITE SURVEY
 SEC. 21, T.6 S., R. 10 W.
 OLD SCENIC HWY 101

- NOTES:**
- 1) Clear and Grub Two ~1' Dia. Hemlocks and Three ~' Dia. Alder. Leave Rootwad Attached to 20' of Log and Stockpile Separately as Directed by the CO.
 - 2) Oblique to depth of 2', Spread Tops and Limbs from Roughen Surface to Clearing Operation.
 - 3) Fill Existing Scour Hole SE of Culvert with Soil from excavation, Layer Place and Compact to Density of Surrounding Embankment, Place Riprap Along Stream and Tie into Wingwall as Directed by CO.

END/GENUINE TOP OF CAST-IN-PLACE BOX CULVERT FOOTINGS

	Northing	Easting	Elevation
①	N 9936.61	E 5100.01	Elev. 209.99
②	N 9936.10	E 5128.80	Elev. 210.89
③	N 9876.10	E 5068.80	Elev. 207.07
④	N 9876.61	E 5040.00	Elev. 206.17



STREAM PROFILE VIEW

- Bedrock
- Estimated Bedrock Subsurface
- Actual Surface Water
- Streambed

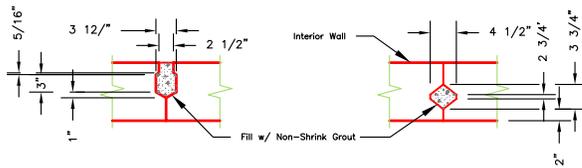


TOKETA CREEK FISH PASSAGE
BOX CULVERT PLAN & PROFILE

U.S.D.A. FOREST SERVICE

PACIFIC NORTHWEST REGION

Designed By:	rgp	
Drawn By:	rgp	
Reviewed By:		
REV	DATE	DESCRIPTION

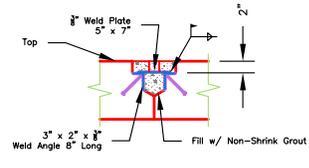


Deck Joint

Typical Between Top Sections
& Flat Slab Base Sections
(Not to Scale)

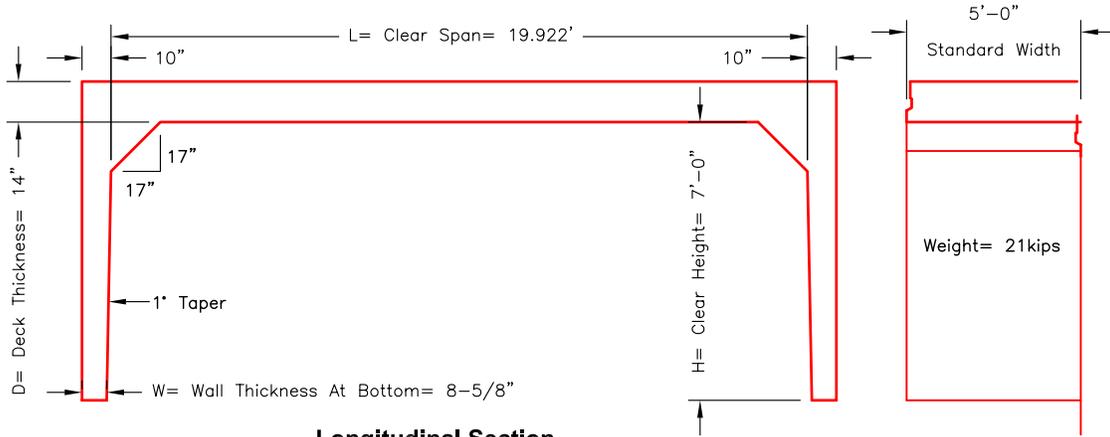
Vertical wall Joint

Typical Between Walls
(Not to Scale)



Weld Connection

Typical Between Top Sections
& Flat Slab Base Sections
(Not to Scale)

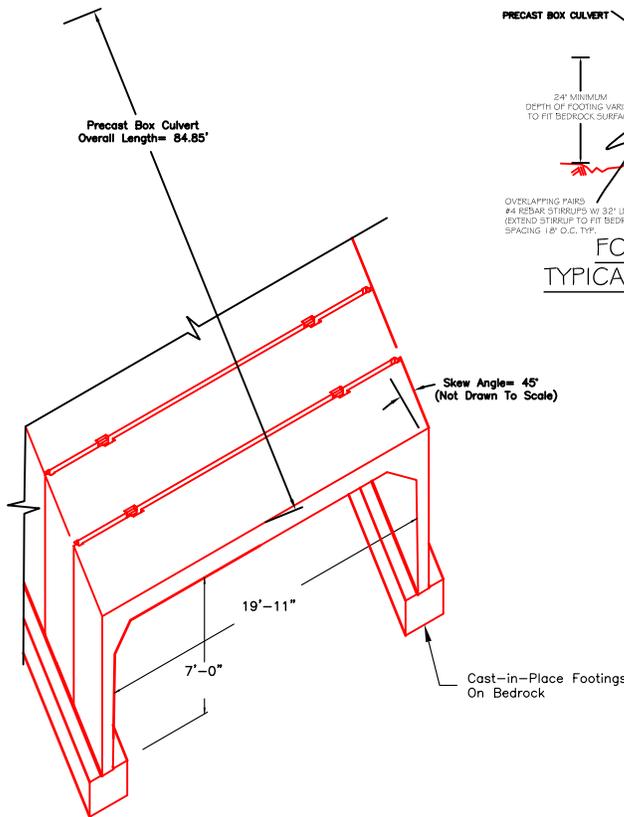


Longitudinal Section

(Not to Scale)

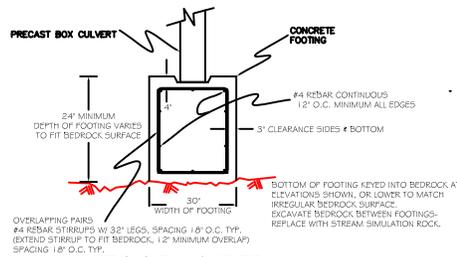
Transverse Section

(Not to Scale)



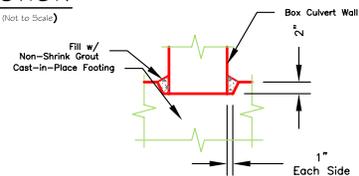
Box Culvert Perspective View

(Not to Scale)



**FOOTING DETAIL
TYPICAL CROSS SECTION**

(Not to Scale)



FOOTING KEYWAY

(Not to Scale)

Notes:

- 1) Box Culvert members are precast products by Oldcastle Precast, Inc., Auburn WA. (800) 892-1538 (or approved equal).
- 2) Pre-cast items shall be pre-engineered and designed for HS-25 loading and cover shown on profile view; Contractor to supply design submittals stamped by a registered professional engineer in Oregon.
- 3) Pre-cast Wingwall Footings to be placed on bedrock excavated to a planar surface; all voids between bedrock and precast footings shall be filled with seal class structural concrete, incidental to the pre-cast pay item
- 4) Non-shrink grout shall an approved product from the ODOT Qualified Products List, January 2002, available from the Oregon Department of Transportation, (503) 986-3720 or <http://www.odot.state.or.us/tsconstruction>

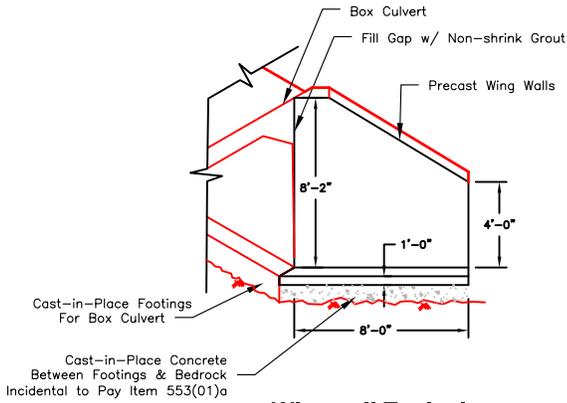
4
7
SLEEVES
TUBES
SLEEVES
TUBES

TOKETA CREEK FISH PASSAGE

PRECAST BOX CULVERT & FOOTINGS

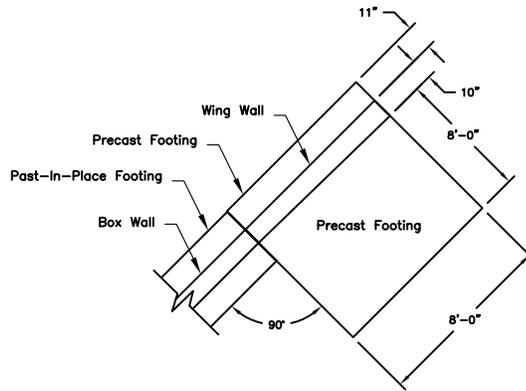
U.S.D.A. FOREST SERVICE PACIFIC NORTHWEST REGION

Designed By:	Box by Oldcastle Precast, Inc. Footing by Rob Piehl, USFS	
Drawn By:	Box by Oldcastle Precast, Inc. Footing by Rob Piehl, USFS	
Reviewed By:		
REV	DATE	DESCRIPTION



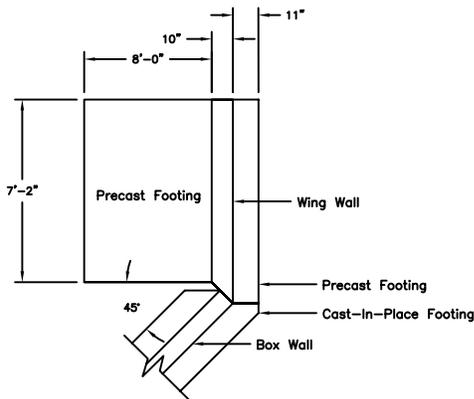
Wingwall Typical

(Not to Scale)



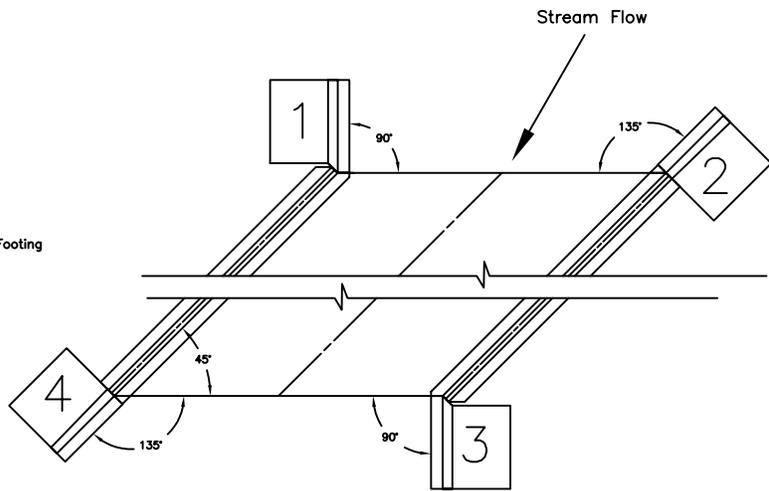
Wingwalls 2 & 4 Layout Detail

(Not to Scale)



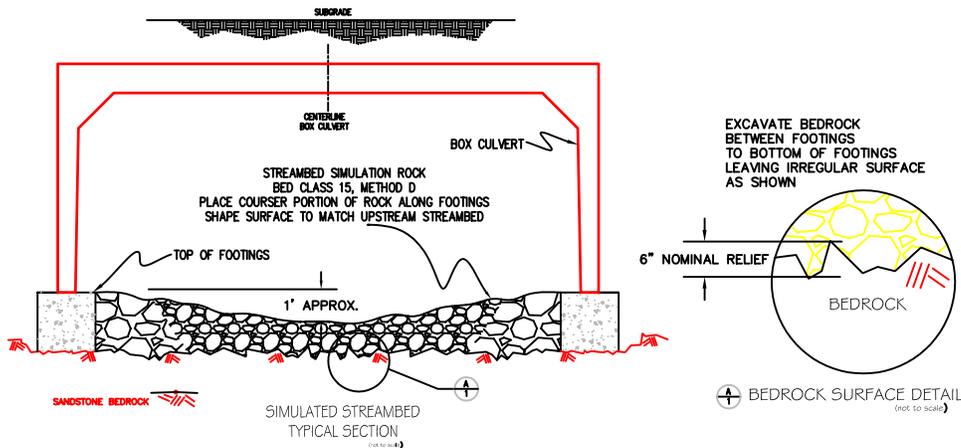
Wingwalls 1 & 3 Layout Detail

(Not to Scale)



Wingwall Layout

(Not to Scale)



SIMULATED STREAMBED TYPICAL SECTION

BEDROCK SURFACE DETAIL

NOTE:
FILL VOIDS IN STREAM BED SIMULATION ROCK W SELECT BORROW
AND COMPACT AS PER SPS 251.02F1

5
7



TOKETA CREEK FISH PASSAGE

WINGWALLS & STREAMBED DETAILS

U.S.D.A. FOREST SERVICE

PACIFIC NORTHWEST REGION

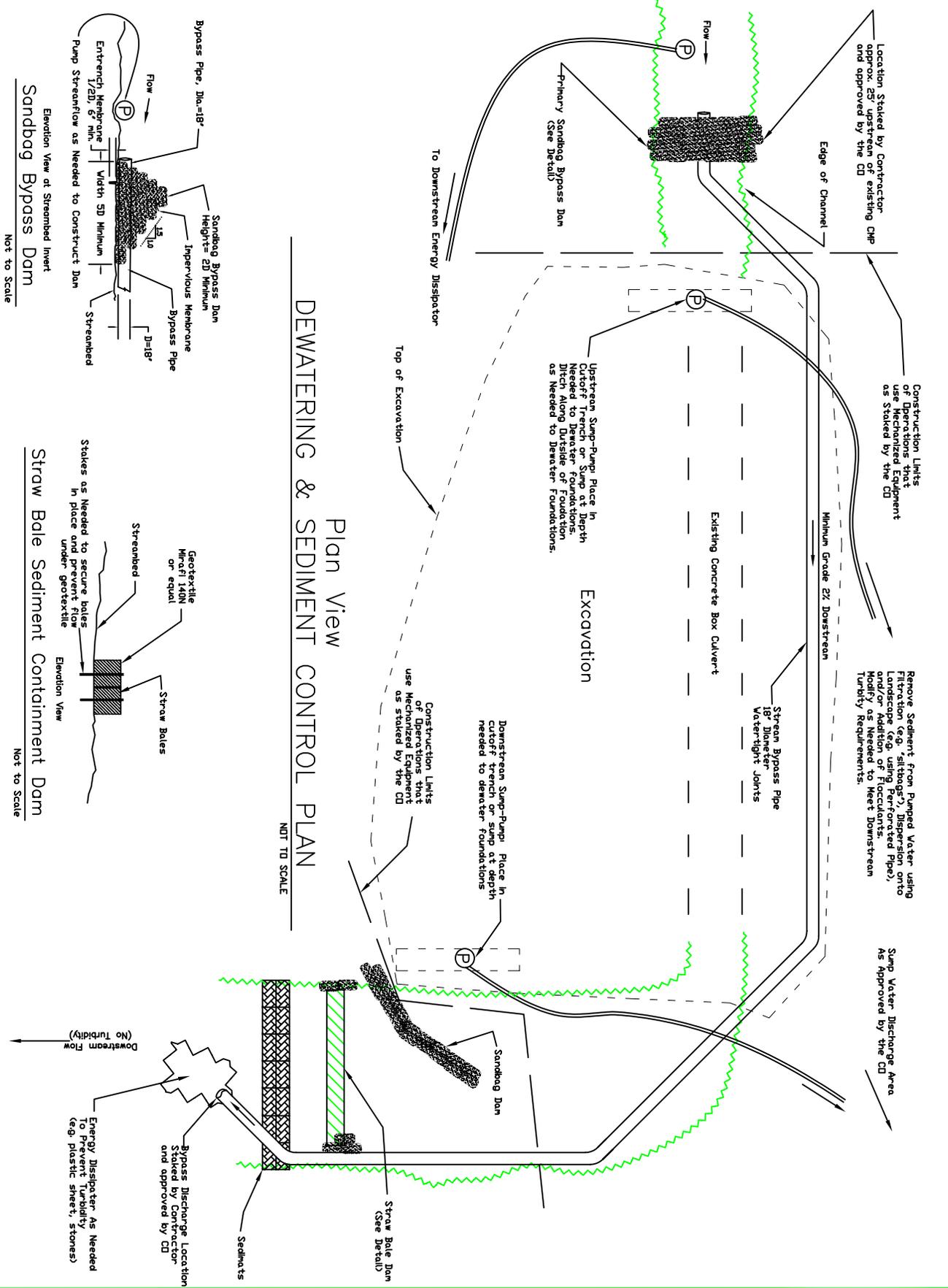
Designed By: Box by Oldcastle Precast, Inc. Footing by Rob Piehl, USFS

Drawn By: Box by Oldcastle Precast, Inc. Footing by Rob Piehl, USFS

Reviewed By:

▲	
▲	
▲	Layout Adapted for Toketa Crk./r/gp

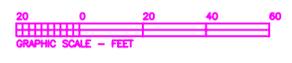
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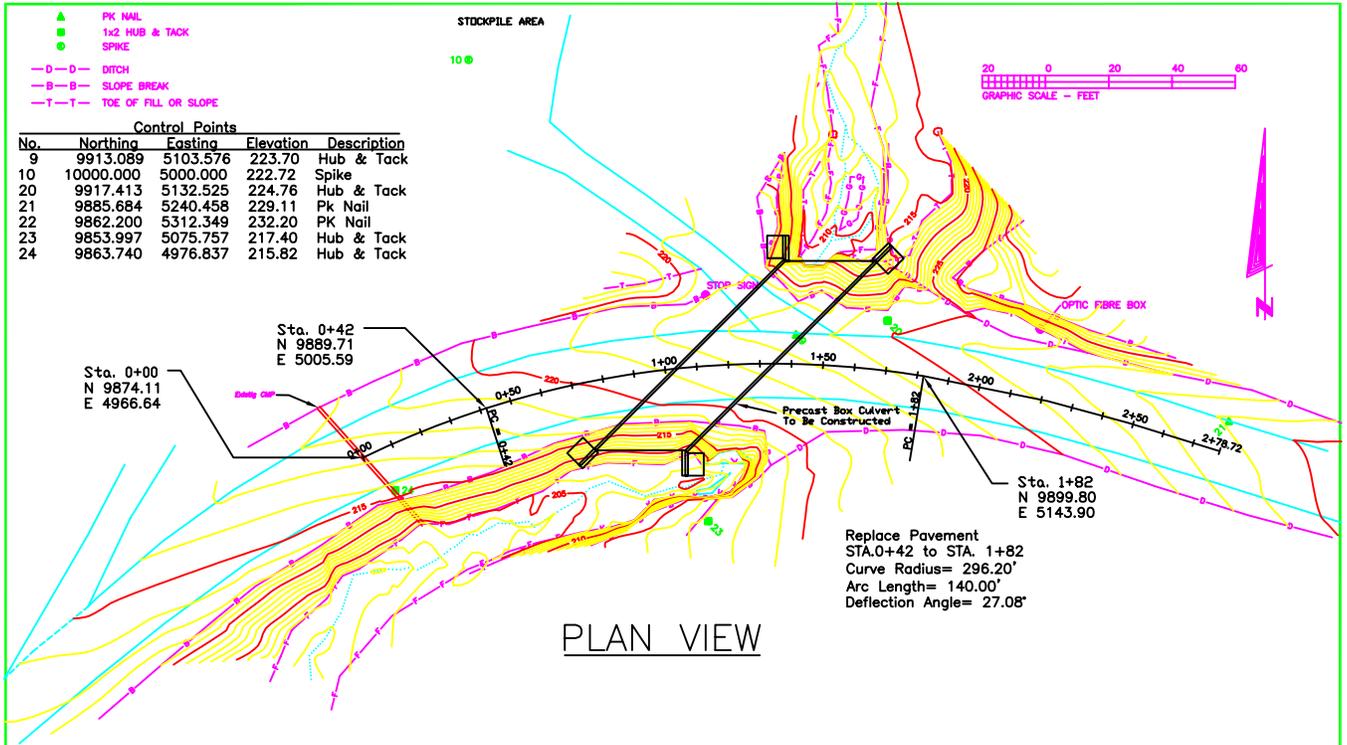
		<h2 style="margin: 0;">TOKETA CREEK FISH PASSAGE</h2> <h3 style="margin: 0;">DEWATERING & SEDIMENT CONTROL PLAN</h3>	Designed By: rgp Drawn By: rgp Reviewed By:
SHEET NUMBER: 6 TOTAL SHEETS: 7		U.S.D.A. FOREST SERVICE	PACIFIC NORTHWEST REGION

- ▲ PK NAIL
- 1x2 HUB & TACK
- SPIKE
- - - DITCH
- - - SLOPE BREAK
- - - TOE OF FILL OR SLOPE

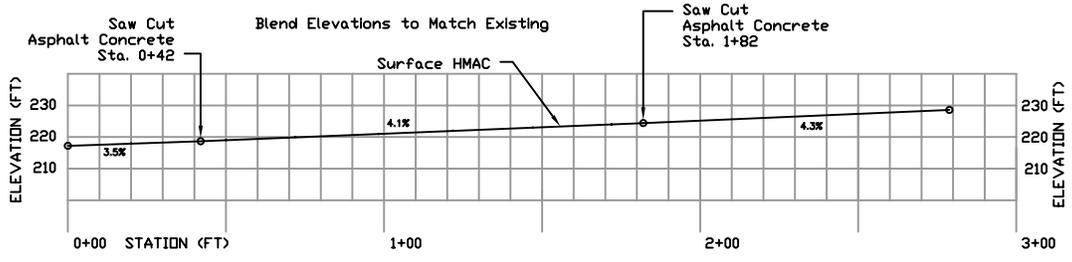
STOCKPILE AREA



Control Points				
No.	Northing	Easting	Elevation	Description
9	9913.089	5103.576	223.70	Hub & Tack
10	10000.000	5000.000	222.72	Spike
20	9917.413	5132.525	224.76	Hub & Tack
21	9885.684	5240.458	229.11	Pk Nail
22	9862.200	5312.349	232.20	Pk Nail
23	9853.997	5075.757	217.40	Hub & Tack
24	9863.740	4976.837	215.82	Hub & Tack



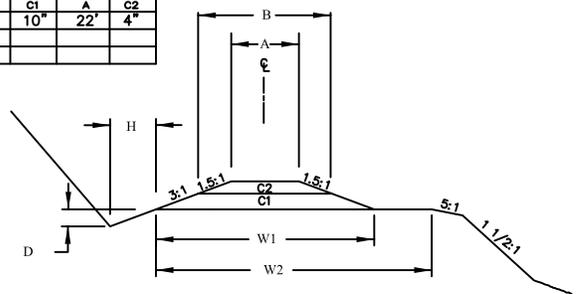
PLAN VIEW



ROAD CENTERLINE PROFILE VIEW

STATION TO STATION	COMMENT	GRADING				BASE		ASPHALT		
		SUBGRADE WIDTH	SUPER	DITCH DIMENSIONS	SURFACE WIDTH	DEPTH	SURFACE WIDTH	DEPTH		
0+42	Blend Surface Elevations to Match Existing Grades, Super & Ditchlines	28'	30'	10%	1'	3'	23'	10"	22'	4"

*Place Straw Bale or 'Bio-bag' Ditch Dams Every 30' of New Ditch



ROAD STRUCTURE DETAILS CROSS SECTION

TRAFFIC SIGN PLAN

Contractor shall notify CO in writing of the proposed road closure at least 30 days in advance. One week prior to closing Old Scenic Highway 101 (Forest Road 12), post traffic warning signs as follows: 36"x36" diamond shape W20-3A* warning signs: "ROAD CLOSED AHEAD", and rectangular warning signs: "Old Hwy 101 ___ MILES AHEAD/ AUG ___ - OCT ___" (miles & dates inserted), one each at the following locations:
 1) "Slab Creek Road" @ Hwy 101
 2) "Slab Creek Road" @ Forest Road 12
 3) Old Scenic Hwy 101 (Road 12) @ Forest Road 1861
 4) Old Scenic Hwy 101 @ "E Three Rocks Road"
 Signs shall be permanently mounted on wooden posts and maintained until the end of closure, at which time shall be removed. Prior to closure, post traffic warning signs on both ends of the project site as follows: 36"x36" diamond shape W20-3A* warning signs: "ROAD CLOSED 1000FT", "ROAD CLOSED" signs and barricades.
 *All signs shall meet the requirements of the Manual on Uniform Traffic Control Devices.



TOKETA CREEK FISH PASSAGE
 ROADWAY DETAILS
 U.S.D.A. FOREST SERVICE PACIFIC NORTHWEST REGION

Designed By:	rgp	
Drawn By:	rgp	
Reviewed By:		
REV	DATE	DESCRIPTION