LOSTINE RIVER - LOSTINE DIVERSION FISH PASSAGE IMPROVEMENTS - 2012 WALLOWA COUNTY, OREGON

Astoria Sacside Sacside PORTLAND River Dolles Figgs Arlington Astoria Sacside PORTLAND River Dolles Figgs Arlington Sacside Formula Sacside Sacside Formula Sacside Sacside Formula Sacside Sacside

ANDE RONDE MODEL WATERSHED

EXECUTIVE DIRECTOR

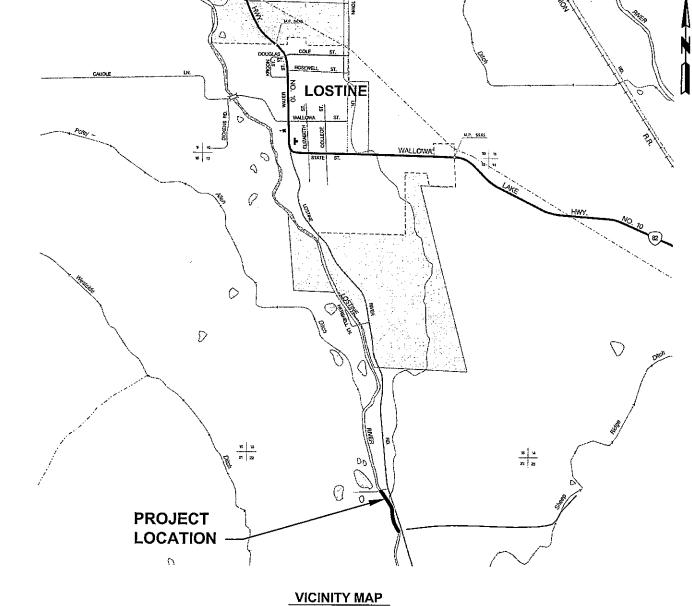
JEFF OVESON

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STEVE McCLURE - Vice Chair
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LARRY CRIBBS
ANNA CAVINATO
TED TAYLOR
DAVE YOST

INDEX

- COVER
- 1 EXISTING SITE PLAN AND LEGEND
- RIVER PLAN AND PROFILE
- CROSS SECTIONS
 GRADE CONTROL DETAILS
- 5 MOODY DEDDIN DETAIL





The Grande Ronde Model Watershed has reviewed these drawings and approved them for construction to fullfill the intended project objectives.

Date

FOR REVIEW ONLY NOT FOR CONSTRUCTION



SITE, 12/27/2011 12:29:59 PM

EXISTING 38" X 58" SQUASH PIPE

I.E. 3464.03

Ā PP, 12/27/2011 12:02:57 STREAM RESTORATION NOTES:

I. STREAMBED SIMULATION MATERIAL SHALL BE PLACED TO THE GRADE SHOWN ON THE DRAWINGS. MATERIAL

> GRANDE RONDE MODEL WATERSHED LOSTINE DIVERSION FISH PASSAGE & associates, inc.

5+00

UPSTREAM CHANNEL

SLOPE 0.0355 FT/FT

5+50

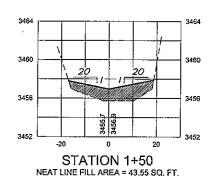
RIVER PLAN AND PROFILE

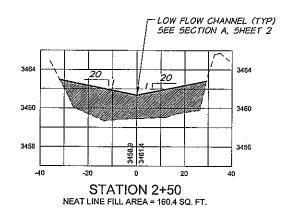
EXISTING THALWEG

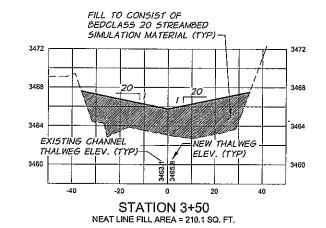
3470

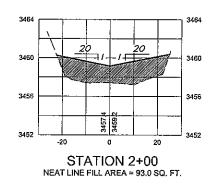
3460

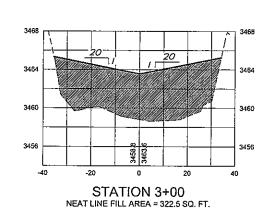
3450

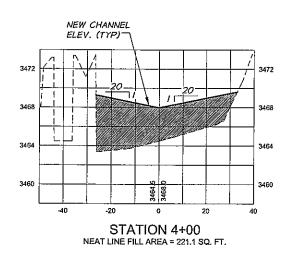


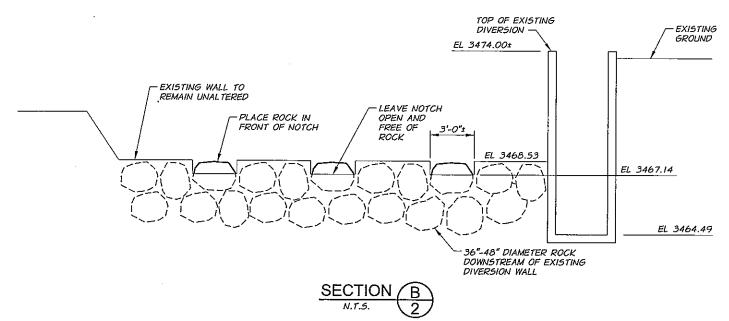












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		•			5	0	5	10	<u>1</u> 5
		··········	1	1	SCALE IN FEET				
REVISION			ВҮ	DATE	HORZ. SCALE	1"=20'	VERT. SCAL	£ 1"=5'	
DESIGNED BY	C. HUTCHINS	XREFS: LOSTINE-1	B.DW		KERMUH BOL	81-25	DATE	2012	
DRIAMN BY	P. RICHARDSON				ACAD FILE:	SITE-PP2	B.dwg	**	
REVIEWED BY	B. MOORE				CO	PYRIGHT 2012	BY ANDERSON-PER	RY & ASSOC.	. INC.

THIS DRAWING HAS BEEN REDUCED 50%. ADJUST SCALE ACCORDINGLY. BARSCALE SHOWN IS ACCURATE.

PRELIMINARY

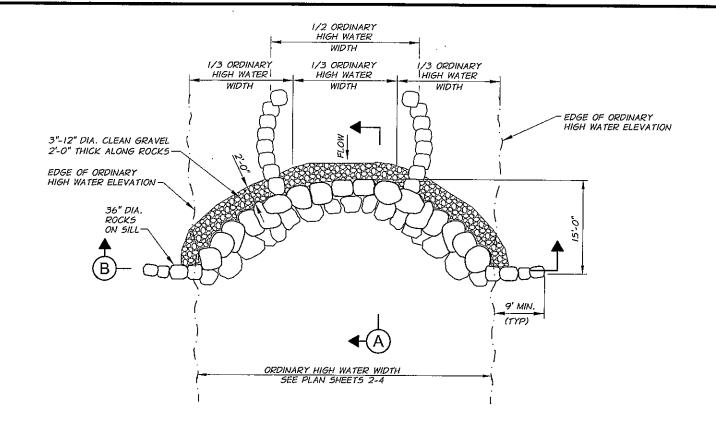


GRANDE RONDE MODEL WATERSHED
LOSTINE DIVERSION
FISH PASSAGE

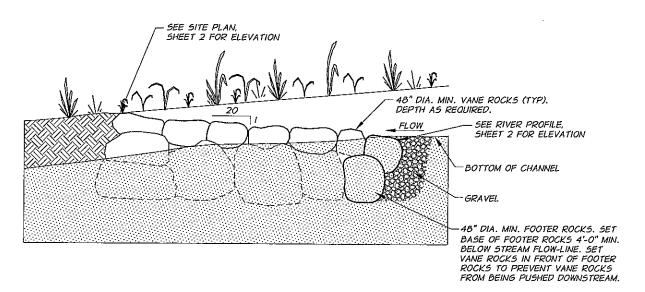
CROSS SECTIONS

3

SHEET

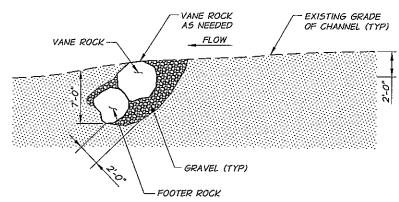


PLAN



GRADE CONTROL SECTION A

(ROCKS SHOWN OUT OF SECTION FOR CLARITY)
N.T.S.

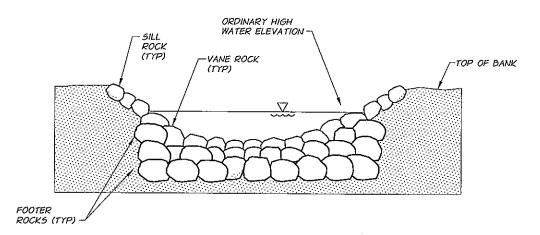


ROCK PLACEMENT DETAIL

N.T.S.

NOTES:

- VANE ROCKS SHALL BE PLACED UPSTREAM AND AGAINST FOOTER AND LOWER VANE ROCKS, NOT ON TOP OF THEM.
- 2. GRAVEL SHALL BE COARSE GRADED AND INSTALLED SO THAT IT DOES NOT WASH THROUGH THE SPACES BETWEEN THE FOOTER AND VANE ROCKS.



GRADE CONTROL SECTION B

(ROCKS SHOWN OUT OF SECTION FOR CLARITY)
N.T.S.

NOTE:

1. SEE ROCK PLACEMENT DETAIL THIS SHEET FOR HOW TO INSTALL ROCK.

		1		-		
REVISION		BY	DATE	HORZ SCALE NONE	VERT, SCA	UE
DESIGNED BY C. HUTCHINS XREFS: LOSTIN		B.DWG	,	JOB NUMBER 81-25	DATE	2012
DRAWN BY P. RICHARDSON				ACAD FRE: VaneDetails.	dwa	
REVEWED BY B. MOORE				COPYRIGHT 2012 BY ANDERSON-PERRY & ASSOC., INC.		

THIS DRAWING HAS BEEN REDUCED 50%. ADJUST SCALE ACCORDINGLY. BARSCALE SHOWN IS ACCURATE.

PRELIMINARY



LA GRANDE, OR. WALLA WALLA, WA.

GRANDE RONDE MODEL WATERSHED
LOSTINE DIVERSION

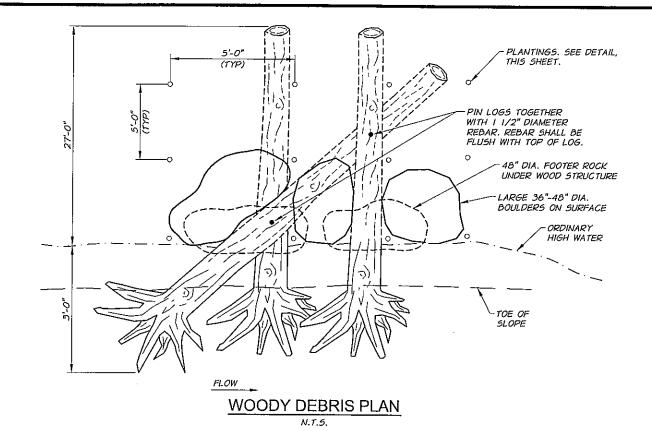
FISH PASSAGE

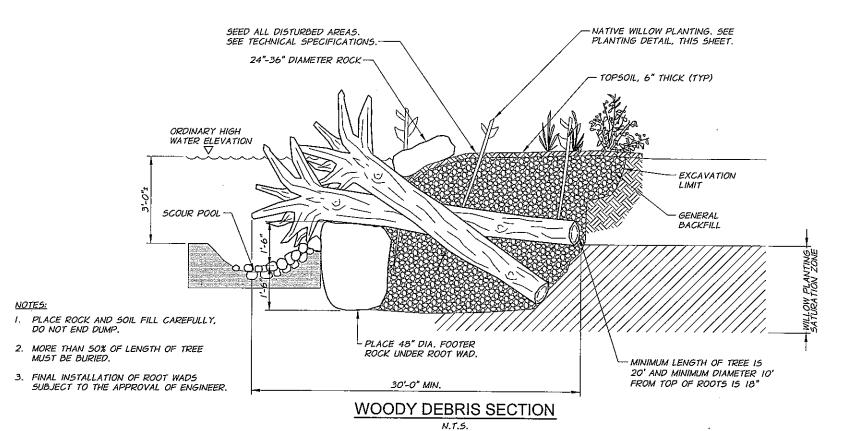
GRADE CONTROL DETAILS

SHEET

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OL DETAILS





KOS MUNIBER 81-25

VaneDet1.dwg

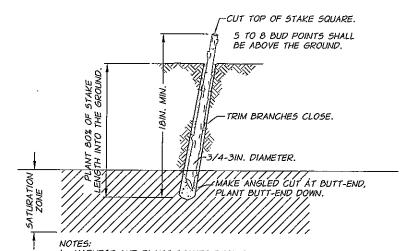
2012

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XREFS: LOSTINE-TB.DWG

DESCRED BY C. HUTCHINS

DRAWN BY P. RICHARDSON
EVENED BY B. MOORE



- NOTES:

 1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.

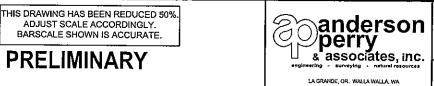
 2. USE HEALTHY, STRAIGHT AND LIVE WOOD AT LEAST I YEAR OLD.

 3. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION, USE A PILOT BAR IN FIRM SOILS.

 4. SOAK CUTTINGS FOR 24 HOURS (MIN.) PRIOR TO INSTALLATION.

- 5. TAMP THE SOIL AROUND THE STAKE.
 6. EXTEND STAKES IN TO WATER SATURATION ZONE.

TYPICAL PLANTING DETAIL



GRANDE RONDE MODEL WATERSHED LOSTINE DIVERSION FISH PASSAGE

SHEET

WOODY DEBRIS DETAILS