

FOREST SERVICE --- REGION SIX  
WILLAMETTE NATIONAL FOREST  
**McKENZIE RIVER RANGER DISTRICT**  
 LANE COUNTY, OREGON

PLANS FOR PROPOSED

Ten Timber Sale

<u>ROAD NO.</u>	<u>LENGTH</u>	<u>CONST./RECONST.</u>
2633	3.81	RECONST.
Total Miles		3.81

INDEX TO SHEETS	
SHEET	DESCRIPTION
1	TITLE SHEET
2	VICINITY MAP
3	GENERAL NOTES
4	ESTIMATE OF QUANTITIES
5-8	RECONSTRUCTION SUMMARIES
9	TYPICAL SECTIONS
10	DRAINAGE LISTING
11	DRAINAGE DETAIL
12	DEWATERING PLAN
13	CLEARING TYPICAL

Designed Team:	
<i>Kenneth C. Gabriel</i>	10/20/2011
Name	Date
Reviewed by:	
<i>George W. Smith, Jack Wilson</i>	10/20/2011
Name	Date
Reviewed by:	
<i>Ken Robertson</i>	11/1/2011
Name	Date
Assistant Dev. Engineer	
Recommended by:	
<i>[Signature]</i>	10/25/11
Name	Date
Assistant Zone Engineer	
Approved by:	
<i>[Signature]</i>	11/1/11
Name	Date
Forest Engineer	
<i>[Signature]</i>	10/25/11
Name	Date
District Ranger	

Willamette National Forest

Timber Sale: **TEN**

Prepared By: K.Gabriel

Date: **10/25/2010**

Edited by

Road No.	Road Name	TRAFFIC SERVICE LEVEL	MAINT. LEVEL	Design Class	Approx. Mi./km	C/R *	Specified Road Cost	Required Completion Date
2633	Mill Creek	C	2	SL-12-20	3.81- 6.17	R	\$120,062.31	10/31/2012

\* C=Construction  
R=Reconstruction

**Summary of Road Construction/Reconstruction Costs**

Specified Roads	\$120,062.31
Share Cost Roads	\$0.00
Road Engineering Reconst. Deposit Cost	\$15,529.00
<b>Total Road Costs</b>	<b>\$135,591.31</b>
Contributed Funds	\$0.00
<b>Total Timber Sale Road Costs</b>	<b>\$135,591.31</b>

**Total Estimated Road Construction Cost**

Public Works Cost (opted sales)	\$135,547.04
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**Attachments**

Schedule of Items	1 pages
Specification Lists	2 pages for Specified Roads, 1 page for TS haul route maintenance
FS Supplemental Specs	47 pages
Road Maintenance T-Specs	10 pages
Plans	13 sheets

\* Applicable to Specified Roads only.

Ten Timber Sale

SCHEDULE OF ITEMS					
		ROAD NUMBER	2633		
		SEGMENT			
		CONSTRUCTION			
		RECONSTRUCTION	X		SPECIFIED
		PROJECT LENGTH (Miles)	3.81		ROADS
ITEM NO.	DESCRIPTION	Pay Unit	QTY	UNIT COST	TOTAL
15101	Mobilization	Lump sum	1	\$16,133.99	\$16,133.99
15755	Erosion control & pollution prevention	Each	2	\$508.28	\$1,016.56
20103	Clearing and grubbing, disposal of tops and limbs (f), logs (f), stumps (f)	Mile	3.81	\$1,055.97	\$4,023.25
20207	Removal of individual trees, disposal of tops and limbs (f), logs (f), stumps (f)	Each	8	\$64.84	\$518.72
20253	Removal of individual trees, miscellaneous: disposal of tops & limbs (f) & logs (f)	Each	79	\$62.36	\$4,926.44
20358	Removal of corrugated metal pipe, disposal method (a)	Each	12	\$287.85	\$3,454.20
20302	Removal of culvert inlet / outlet	Foot	5	\$22.46	\$112.30
20419A	Drainage excavation, type culvert outlet ditch	Foot*	50	\$4.32	\$216.00
20419B	Drainage excavation, type leadoff ditch	Foot *	60	\$3.82	\$229.20
20420	Drainage excavation, type catchbasin	Each	2	\$71.26	\$142.52
20464	Excavation, compaction method B	Lump sum	1	\$698.55	\$698.55
20479	Drainage excavation, type roadway ditch	Mile	0.07	\$4,031.58	\$282.21
25101	Placed riprap, class 2	Cubic Yard *	18	\$86.80	\$1,562.40
30359	Roadway reconditioning, compaction method E	Mile	3.81	\$1,918.32	\$7,308.80
32211	Aggregate surface course, grading T, compaction method B	Cubic Yard *	1725	\$37.38	\$64,480.50
60276A	18-inch corrugated aluminized steel pipe, 0.064-inch thickness, method B	Foot	386	\$32.78	\$12,653.08
60276B	24-inch corrugated aluminized steel pipe, 0.064-inch thickness, method B	Foot	36	\$39.93	\$1,437.48
60710	Reconditioning drainage structures, culvert inlet or outlet	Each	2	\$45.66	\$91.32
62509	Mulching, dry method	Lump sum	1	\$774.79	\$774.79
				Total	\$120,062.31

\* Designates Contract Quantities

PRECONSTRUCTION ENGINEERING: All engineering work and expense of preparing for reconstruction engineering services, including the following:

	Cost (\$)
1. Transportation Planning. (All work necessary to complete the NEPA document and decision.)	<u>XXXXXXXX</u>
2. Engineering investigations, studies and reports, and reconnaissance, location, etc.	<u>\$ 1,280.00</u>
3. Preliminary location surveys.	<u>\$ 1,280.00</u>
** 4. Soils, foundations, and materials investigations, surveys, tests, structural design and review.	<u>\$ 840.00</u>
5. Preliminary and final designs.	<u>\$ 1,280.00</u>
6. Preliminary and final plans, drawings, spec's, and estimates of quantities.	<u>\$ 1,280.00</u>
7. Preparation of Government cost estimate.	<u>XXXXXXXX</u>
8. Final location surveys staked on the ground.	<u>\$ 800.00</u>
9. Rights-of-way surveys, plans, and descriptions.	<u>\$ -</u>
** 10. FE review and approval.	<u>\$ 800.00</u>
11. Other (describe) _____	<u>\$ -</u>

CONSTRUCTION ENGINEERING: All work and expense of setting out, controlling, inspecting and measuring the reconstruction of a forest development transportation facility including:

1. Construction surveys to establish line and grade for the work, to control the work, and to measure quantities.	<u>\$ 2,400.00</u>
2. Redesigning, adjusting, and changing the plans, specifications, etc., to meet encountered conditions.	<u>\$ 2,400.00</u>
3. Inspecting and controlling operations for compliance with plans and specifications.	<u>XXXXXXXX</u>
4. Inspecting and testing materials to be installed.	<u>XXXXXXXX</u>
5. Inspecting and measuring completed work.	<u>XXXXXXXX</u>
6. Processing payments and accepting materials and work.	<u>XXXXXXXX</u>
** 7. FE inspection and construction mgt. (include structures).	<u>\$ 800.00</u>

I. Project Subtotal (Total of 1-10 and 1-7 above)	<u>\$ 13,160</u>
II. S.O. Overhead Account (V+IV)*.18	<u>\$ 2,369</u>
III. Project Total = (I + II)	<u>\$ 15,529</u>
IV. ** FE Account (4+10+7)	<u>\$ 2,440</u>
V. District Account = (I - IV)	<u>\$ 10,720</u>

VII. Total (I + II) **To C5.213#** → \$ 15,529 FSRE18

Assistant Forest Engineer \_\_\_\_\_ Date \_\_\_\_\_

NOTE: Do not include entries where XXXXXXXX appears.

**TEN TIMBER SALE**  
ENGINEER'S ESTIMATE

11/3/2011  
Assumes 2% per annum inflation rate.

Note: This is an in-house tool,  
NOT PART OF THE CONTRACT. /s/

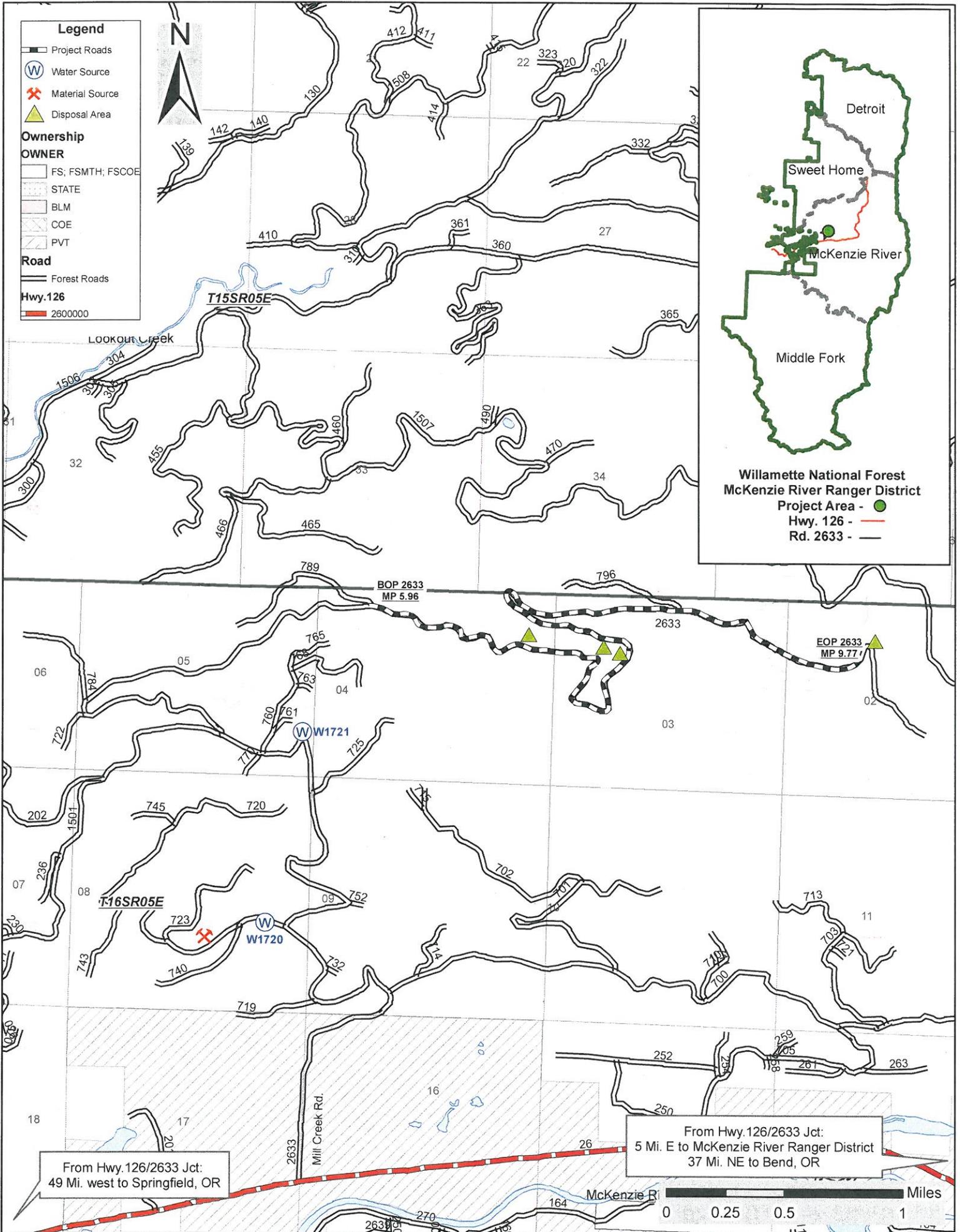
**Costs projected to midpoint of construction period, 2012, 9 months from 10/17/2012** 1.02 factor

2633									
PAY ITEM	DESCRIPTION	PAY UNIT	QTY	P.W. Unit Price	Adjusted PW Unit Cost	Public Works Total Cost	T.S. Unit Price	ADJUSTED T.S. UNIT COST	Timber Sale Total Cost
15101	Mobilization	LS	1	\$17,803.03	\$18,426.14	\$18,426.14	\$15,895.56	\$16,133.99	\$16,133.99
15755	Erosion control & pollution prevention	Each	2	\$600.52	\$612.53	\$1,225.06	\$500.77	\$508.28	\$1,016.56
20103	Clearing & grubbing, disposal of tops and limbs (f), logs (f), stumps (f)	Mile	3.81	\$1,225.99	\$1,250.51	\$4,764.44	\$1,040.36	\$1,055.97	\$4,023.25
20207	Removal of individual trees, disposal of tops and limbs (f), logs (j), stumps (f)	Each	8	\$85.51	\$87.22	\$697.76	\$63.88	\$64.84	\$518.72
20253	Removal of individual trees, miscellaneous: disposal of tops and limbs (f) & logs (f)	Each	79	\$88.42	\$90.19	\$7,125.01	\$61.44	\$62.36	\$4,926.44
20358	Removal of corrugated metal pipe, disposal method (a)	Each	12	\$368.76	\$376.14	\$4,513.68	\$283.60	\$287.85	\$3,454.20
20302	Removal of culvert inlet/outlet	Each	5	\$27.22	\$27.76	\$138.80	\$22.13	\$22.46	\$112.30
20419A	Drainage excavation, type culvert outlet ditch	Foot*	50	\$6.04	\$6.16	\$308.00	\$4.26	\$4.32	\$216.00
20419B	Drainage excavation, type leadoff ditch	Foot*	60	\$5.11	\$5.21	\$312.60	\$3.76	\$3.82	\$229.20
20420	Drainage excavation, type catchbasin	Each	2	\$94.35	\$96.24	\$192.48	\$70.21	\$71.26	\$142.52
20464	Excavation, compaction method B	Lump sum	1	\$877.04	\$894.58	\$894.58	\$688.23	\$698.55	\$698.55
20479	Drainage excavation, type roadway ditch	Mile	0.07	\$5,157.86	\$5,261.02	\$368.27	\$3,972.00	\$4,031.58	\$282.21
25101	Placed riprap, class 2	Cubic Yard*	18	\$118.82	\$121.20	\$2,181.60	\$85.52	\$86.80	\$1,562.40
30359	Roadway reconditioning, compaction method E	Mile	3.81	\$2,149.61	\$2,192.60	\$8,353.81	\$1,889.97	\$1,918.32	\$7,308.80
32211	Aggregate surface course, grading T, compaction B	Cubic Yard*	1725	\$38.96	\$39.74	\$68,551.50	\$36.83	\$37.38	\$64,480.50

60276A	18-inch corrugated aluminized steel pipe, 0.064-inch thickness, method B	Foot	386	\$36.69	\$37.42	\$14,444.12	\$32.30	\$32.78	\$12,653.08
60276B	24-inch corrugated aluminized steel pipe, 0.064-inch thickness, method B	Foot	36	\$47.65	\$48.60	\$1,749.60	\$39.34	\$39.93	\$1,437.48
60710	Reconditioning drainage structures, culvert inlet or outlet	Each	2	\$64.75	\$66.05	\$132.10	\$44.99	\$45.66	\$91.32
62509	Mulching, dry method	Lump sum	1	\$1,144.60	\$1,167.49	\$1,167.49	\$763.34	\$774.79	\$774.79
			2633000	PUBLIC WORKS TOTAL		\$135,547.04	TIMBER SALE TOTAL		\$120,062.31

SALE SUMMARY:				Public Works	Timber Sale
	2633000	TOTAL	\$135,547.04	\$120,062.31	
	TOTAL FOR SALE =		\$135,547.04	\$120,062.31	

# Ten Timber Sale



**Legend**

- Project Roads
- Water Source
- Material Source
- Disposal Area

**Ownership**

**OWNER**

- FS; FSMTH; FSCOE
- STATE
- BLM
- COE
- PVT

**Road**

- Forest Roads
- Hwy. 126
- 2600000

Detroit

Sweet Home

McKenzie River

Middle Fork

**Willamette National Forest  
McKenzie River Ranger District**

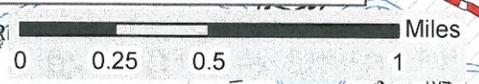
Project Area - ●

Hwy. 126 - —

Rd. 2633 - —

From Hwy. 126/2633 Jct:  
49 Mi. west to Springfield, OR

From Hwy. 126/2633 Jct:  
5 Mi. E to McKenzie River Ranger District  
37 Mi. NE to Bend, OR



### GENERAL NOTES

- 1) Remove all berms created from roadbed reconditioning or ditch reconstruction to allow for drainage of water. All safety berms are designated to remain.
- 2) Do not undercut existing backslopes when constructing or reconditioning roadway ditch under pay items 20479 or 30359.
- 3) Salvage existing aggregate during culvert replacement; use as backfill material.
- 4) Recondition or reconstruct turnouts and curve widening the same as the basic roadbed. Quantities listed in the estimate of quantities include turnouts and curve widening.
- 5) See FSSS 107.02 **Protection and Restoration of Property and Landscape** and Timber Sale provisions for restrictions/mitigations related to this project.
- 6) Designated disposal sites are identified on reconstruction summary sheets. Layer place, smooth and shape to drain excess or unsuitable excavation materials. Additional disposal sites may be identified during construction if the need arises. No other disposal sites will be used, unless designated in advance by the Contracting Officer. Cost for disposal site shaping is indirect to the listed pay items under Sections 204 and 303.
- 7) Maintain all construction staking on the project, until final inspection and acceptance.
- 8) Replace culverts when stream channels are dry or during instream work period. Dewatering will be deleted if there is no water in the stream when the work is done.
- 9) Spread Government furnished straw over disturbed soil at all culvert installations, disposal areas and other exposed soil, excluding ditches. Cover areas completely. Straw is stored at the Horse Creek Work Center, located off Horse Creek road. Contact the CO to arrange for pick up.
- 10) Submit a written Erosion Control / Dewatering Plan for approval 21 days prior to beginning culvert replacement. Refer to FSSS 157.02 for additional requirements. Dewatering is included under Pay item 15755.
- 11) Provide class D construction tolerance for Road 2633.
- 12) Set culvert reference stakes prior to excavation and removal of all culverts shown on the Drainage Listing Sheet as "# match existing" installation. Set a culvert reference stake on the centerline of the culvert 10 feet. Record the following on culvert reference stakes: Mile point, actual stake distance from culvert inlet and outlet and existing culvert diameter.