

WOODS THIN STEWARDSHIP
RECONSTRUCTION OF SPECIFIED ROADS

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**WOODS THIN STEWARDSHIP
ROAD RECONSTRUCTION COSTS**

Road Reconstruction Total Estimated Costs

<u>FSR Number</u>	<u>Estimated Costs</u>
2005	\$67,125.00
K-F.2.1.3# Reconstruction Engineering Deposits	<u>\$10,006.00</u>

TOTAL RECON \$ \$77,131.00

Public Works Costs - \$79,945.00

SCHEDULE OF ITEMS

WOODS THIN STEWARDSHIP

Central Coast Ranger District

Siuslaw National Forest

Benton County

RECONSTRUCTION OF FS ROAD 2005

6.37 MILES

ITEM NO.	DESCRIPTION	PAY UNIT	EST. QTY.	UNIT PRICE	TOTAL PRICE
15101	Mobilization	Lump Sum	ALL	\$6,000.00	\$6,000.00
15713	Soil Erosion& Pollution Control	Lump Sum	ALL	\$640.00	\$640.00
20208	Removal of individual trees, disposal of tops and limbs (f(1)), logs (f(1)), stumps (f(1))	Lump Sum	ALL	\$310.00	\$310.00
20304	Removal, logs	Lump Sum	ALL	\$460.00	\$460.00
20358	Removal of culverts, disposal method A	Each	15	\$150.00	\$2,250.00
20419	Drainage Excavation, type ditch	Foot	80	\$0.80	\$64.00
23051	Roadside brushing, disposal method 1	Mile	6.37	\$890.00	\$5,669.30
25101	Placed Riprap, class 3	CY*	43	\$48.00	\$2,064.00
30322	Road reconditioning, compaction E	Mile	6.37	\$2,910.00	\$18,536.70
32207B	Subbase, grading B, compaction method B	CY*	220	\$41.30	\$9,086.00
60278A	24-inch corrugated polyethylene pipe, type S, compaction method B	Foot	472	\$38.00	\$17,936.00
60278B	36-inch corrugated polyethylene pipe, type S, compaction method B	Foot	40	\$56.00	\$2,240.00
60654B	24-inch full circle polyethylene outlet pipe, type S	Foot	70	\$26.70	\$1,869.00
				Total	\$67,125.00

Payment will be made on actual work performed as described in FP-03 109.01 unless otherwise denoted.

* Denotes Contract Quantities

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE - REGION SIX

SIUSLAW NATIONAL FOREST

CENTRAL COAST RANGER DISTRICT

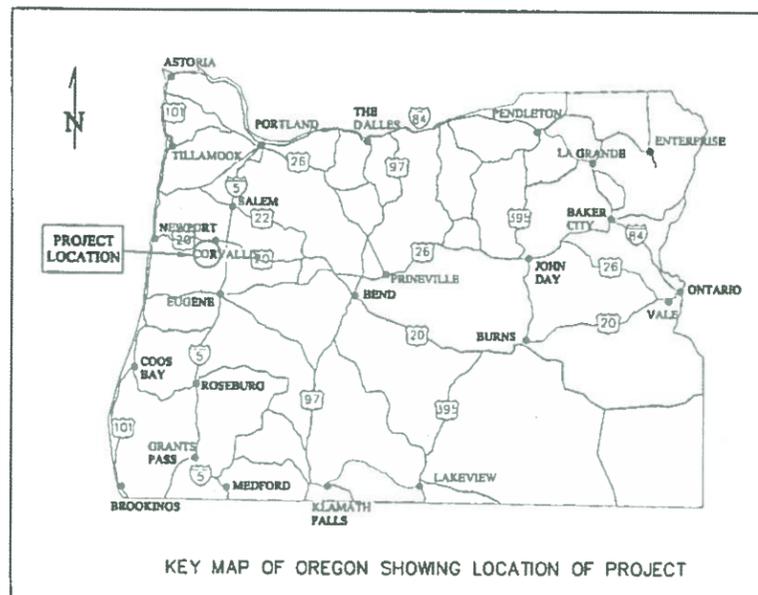
BENTON COUNTY



PLANS FOR ROAD RECONSTRUCTION

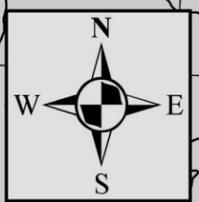
WOODS THIN STEWARDSHIP

ROAD NO.	FROM/TO	LENGTH (MILES)	TYPE OF WORK
2005	M.P. 0.00/M.P. 6.37	6.37	Reconstruction



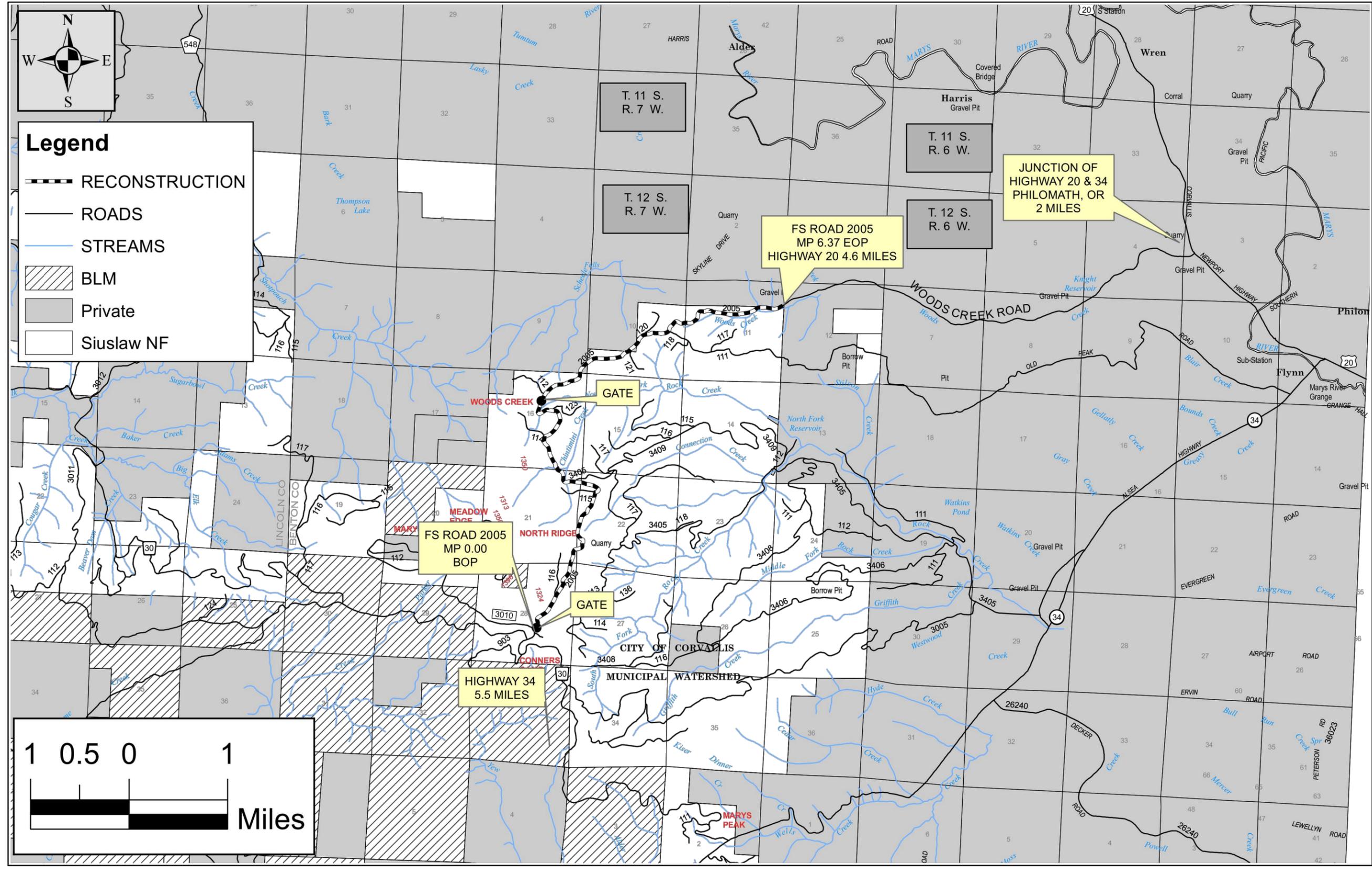
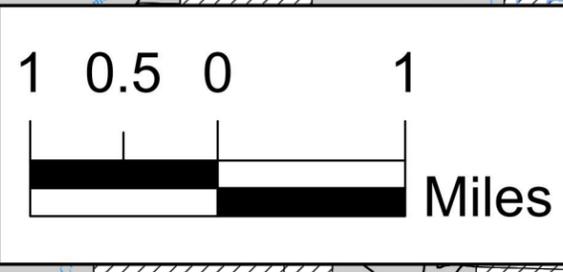
INDEX TO SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	VICINITY MAP
3	ESTIMATE OF QUANTITIES
4	ROAD STRUCTURE DETAILS
5	DRAINAGE CONSTRUCTION DETAILS
6	DRAINAGE LISTING
7	ROADSIDE BRUSHING DETAILS
8-9	WORK DESCRIPTION

Designed by <i>Ronald R. Tomlinson</i>	11/3/14 Date
Designer (R. Tomlinson)	
Reviewed by: <i>J. Latham</i>	11/3/2014 Date
Reviewer (J. Latham)	
<i>J. Caswell</i>	11/5/2014 Date
Dev. Engineer (J. Caswell)	
Recommended by: <i>J. Acosta</i>	11/4/14 Date
Zone Engineer (J. Acosta)	
Approved by: <i>M. Jones</i>	11/4/14 Date
Line Officer (M. Jones)	
<i>K. Austin</i>	11/5/2014 Date
Forest Engineer (K. Austin)	



Legend

- RECONSTRUCTION
- ROADS
- STREAMS
- BLM
- Private
- Siuslaw NF



JUNCTION OF
HIGHWAY 20 & 34
PHILOMATH, OR
2 MILES

FS ROAD 2005
MP 6.37 EOP
HIGHWAY 20 4.6 MILES

FS ROAD 2005
MP 0.00
BOP

HIGHWAY 34
5.5 MILES

WOODS THIN STEWARDSHIP
VICINITY MAP



ESTIMATE OF QUANTITIES

ROAD NUMBER			2005	GENERAL NOTES
PROJECT LENGTH (MILES)			6.37	
ITEM NO.	DESCRIPTION	UNIT	QUANTITIES	* Denotes Contract Quantities
15101	Mobilization	Lump Sum	ALL	Includes fire protection, equipment cleaning and traffic control.
15713	Soil Erosion & Pollution Control	Lump Sum	ALL	Includes dewatering of live stream culvert replacements and mitigations such as weed free straw placement.
20208	Removal of individual trees, disposal of tops and limbs (f(1)), logs (f(1)) & stumps (f(1))	Lump Sum	ALL	M.P. 5.88 - Removal of alder trees less than 8" diameter at culvert inlet.
20304	Removal, logs	Lump Sum	ALL	Remove all logs & rootwads in ditch line and place logs on fill slope in a stable position so as not to roll. Quantity is less than 10.
20358	Removal of culverts, disposal method A	Each	15	Dispose of legally off of government lands.
20419	Drainage excavation, type ditch	Foot	80	
23051	Roadside brushing, disposal method 1	Mile	6.37	Disposal method - scattering.
25101	Placed Riprap, class 3	Cubic Yard*	43	Commercial source/In-Place Compacted Quantities.
30322	Road reconditioning, compaction E	Mile	6.37	Scarify all potholes and irregular surfaces to 6" maximum depth. Includes all existing turnouts and curve widening, cleaning of asphalt surfaces, bridge deck and structures. See sheet 4 for ditch and roadway dimensions. Grubbing and disposal of all vegetation and root masses within the road bed is required. Haul all material from ditch reestablishment and slough and slide removal to designated disposal area. Place Government provided weed free wood bales for any disturbed ditchline within 30' above live streams.
32207B	Subbase, grading B, compaction method B	Cubic Yard*	220	Commercial Source/In-Place Compacted Quantities. Includes 12" compacted depth over culvert site installations and 6" depth bedding material.
60278A	24-inch corrugated polyethylene pipe, type S, compaction method B	Foot	472	All excavation is included. Excavation below existing grade line may be required for culvert replacements.
60278B	36-inch corrugated polyethylene pipe, type S, compaction method B	Foot	40	All excavation is included. Excavation below existing grade line may be required for culvert replacements.
60654A	24-inch full circle polyethylene outlet pipe, type S	Foot	70	Includes all hardware and labor for anchoring as shown on sheet 5.

REMARKS:	
1) Disposal Areas : 6' Maximum height of material, 1V:1.5H slopes, Compaction method C, shape to drain & reconstruct ditchline between road and disposal site. Disposal area locations will be flagged by the Contracting Officer prior to any material placement and are identified in Description of Work.	3) See Stewardship contract provisions and specifications for daily and seasonal requirements and restrictions.
2) Payment will be made on actual work performed as described in FP-03 109.01 unless otherwise noted. * Denotes Contract Quantities.	4) All utility locates, permits and water rights are the responsibility of the contractor.

WOODS THIN STEWARDSHIP

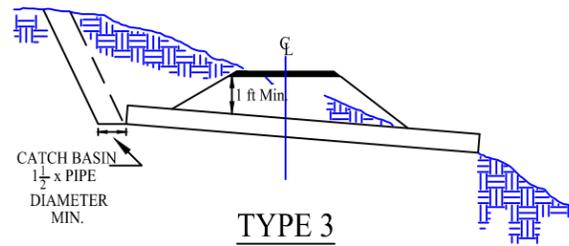
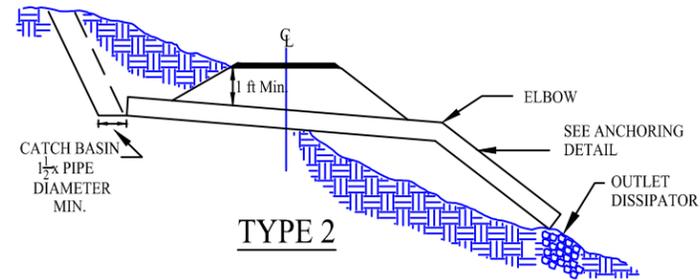
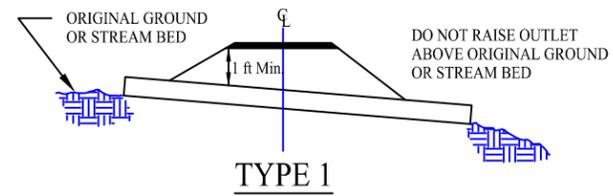
ESTIMATE OF QUANTITIES

PACIFIC NORTHWEST REGION

U.S.D.A. FOREST SERVICE

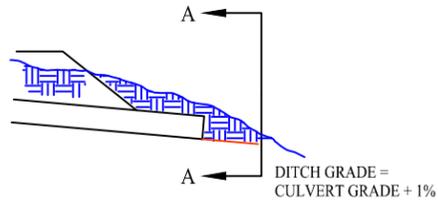


CULVERT INSTALLATION TYPES

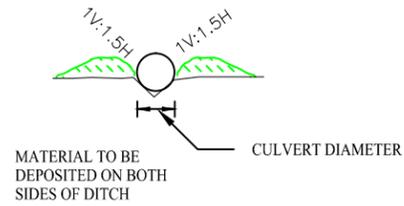


ALL FILLS SHALL BE CONSTRUCTED WITH A MINIMUM SLOPE OF 1V:1.5H.

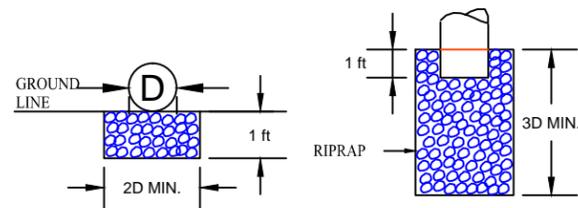
OUTLET DITCH



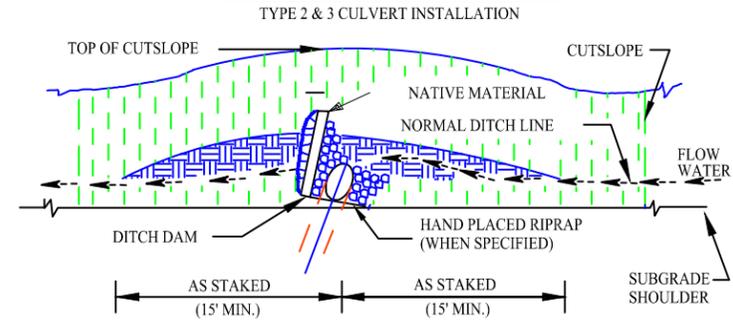
SECTION A-A



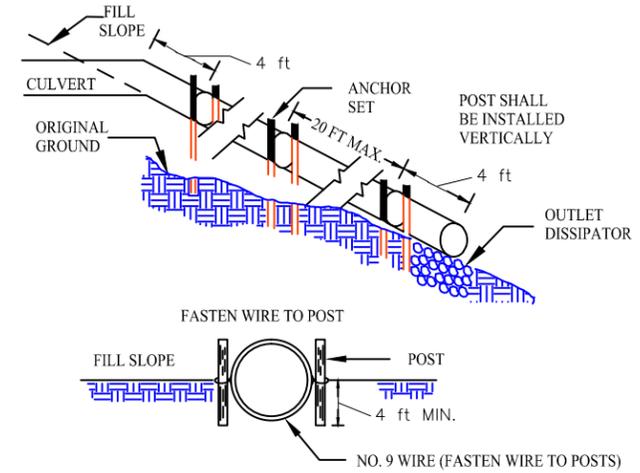
OUTLET DISSIPATOR DETAIL



DITCH DAM PLAN VIEW

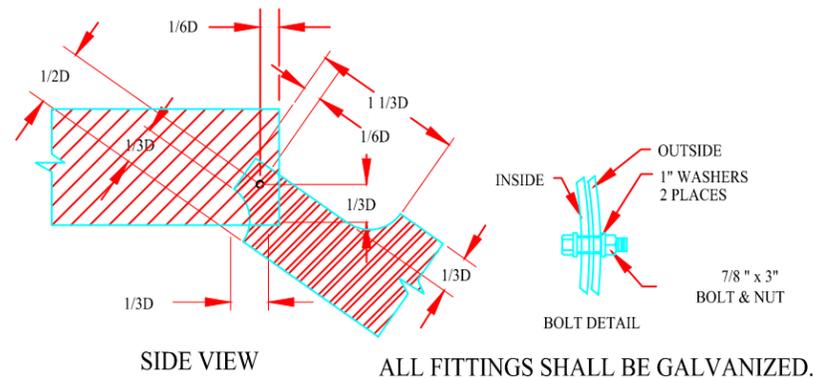


ANCHOR DETAILS

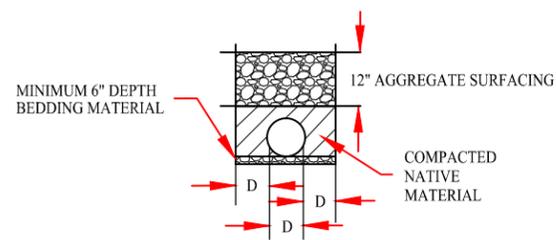


NOTE:
3 FT DIAMETER AND LARGER DOWNPIPE SHALL BE HALF BURIED.
ANCHOR SETS SHALL CONSIST OF TWO 6 FT STEEL FENCE POSTS (AASHTO M 281) AND NO. 9 GALVANIZED WIRE. 3 STRANDS OF WIRE SHALL BE TWISTED TOGETHER AND ENCOMPASS THE ENTIRE CIRCUMFERENCE OF THE PIPE.

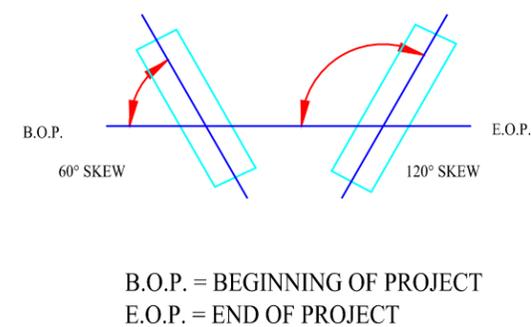
FLEX ELBOW



CULVERT INSTALLATION DETAIL



SKEW DIAGRAM



WOODS THIN STEWARDSHIP

DRAINAGE CONSTRUCTION DETAILS



SHEET NUMBER TOTAL SHEETS

5

9

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

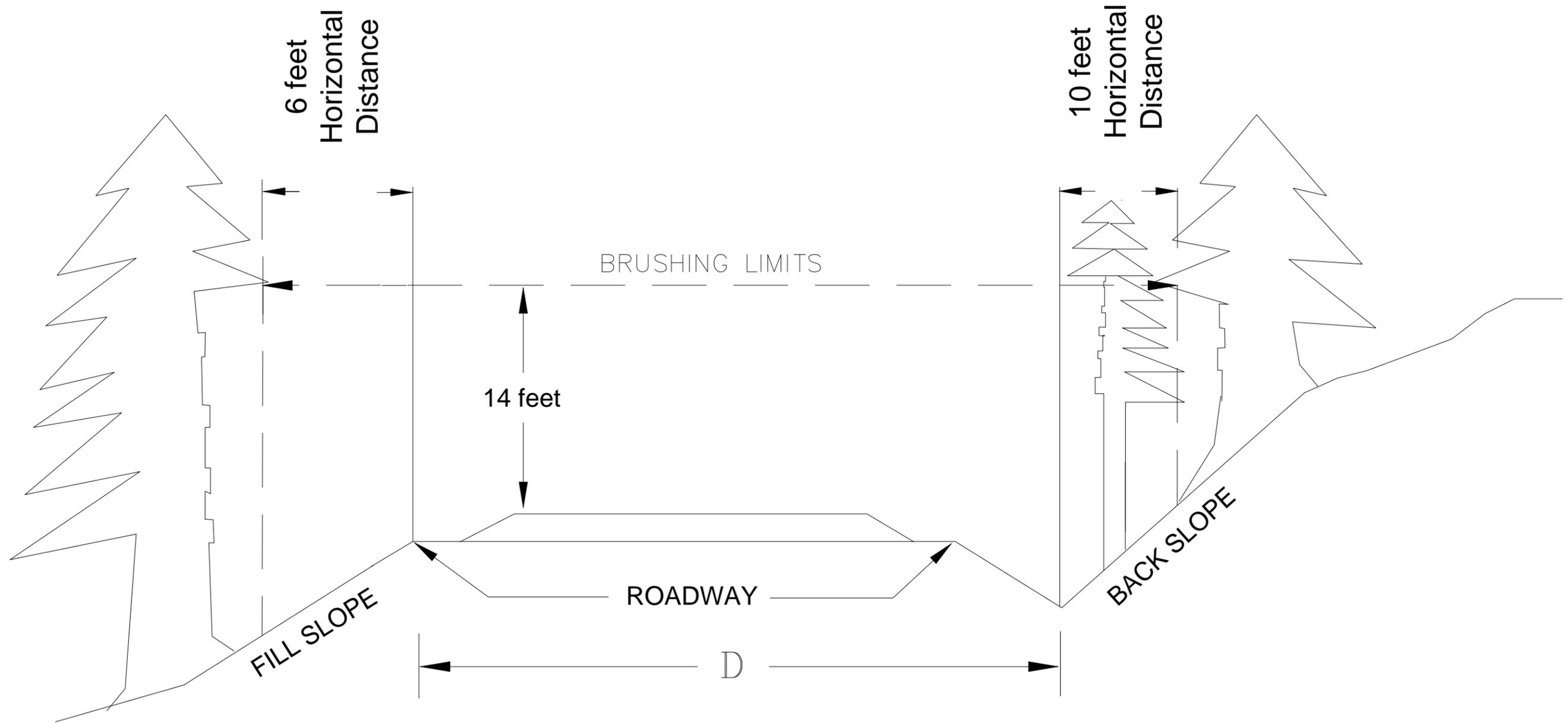
DRAINAGE LISTING

STA or MP	Designed						Installation Details				Riprap- CY						Remarks	
	Plastic Pipe		Plastic Outlet Pipe				Grade (%)	Skew (deg)	Anchor Assembly	Type	Hand Placed		Machine Placed		Dumped			
	Diameter (in)	Length (ft)	Diameter (in)	Length (ft)	Full Circle	Half Round					Inlet CY	Outlet CY	Inlet CY	Outlet CY	Inlet CY	Outlet CY		
FS Road 2005																	CMP = Corrugated Metal Pipe CPP = Corrugated Plastic Pipe * 7% minimum grade required for ditch relief pipes. Match existing skew. Some culvert installations may require excavation below existing grade line.	
0.77	24	34					7%	*		3				3				Increase grade to 7% minimum.
0.93	24	40	24	20	X		*	*		2								
1.24	24	40					*	*		3				3				
1.37	24	40					*	*		3				3				
1.38	24	34	24	30	X		*	*		2								
1.66	24	28					*	*		3				3				
1.78	24	30					*	*		3				3				
1.86	24	28					*	*		3				3				
2.19	24	32					*	*		1			10					Dewater and armor catchbasin and backslope.
2.39	24	34					*	*		3				3				
2.66	24	30					*	*		3				3				
2.92	24	32					*	*		3				3				
3.48	24	40					*	*		3				3				
4.06	24	30	24	20	X		*	*		2								
5.88	36	40					*	*		3				3				
Total	24	472		70									10	30				
Total	36	40											0	3				

WOODS THIN STEWARDSHIP

DRAINAGE LISTING





Grub stumps within "D" above and haul to designated disposal areas.

Mechanical brushing may require manual limbing and manual scattering of machine cut material beyond the brushing limits.

WOODS THIN STEWARDSHIP
ROADSIDE BRUSHING DETAILS



SHEET NUMBER	TOTAL SHEETS
7	9

WORK DESCRIPTION
ROAD 2005

NOTE: * denotes Contract Quantities

<u>MILEPOST</u>	<u>PAY ITEM</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>DESCRIPTION</u>
0.00	20304	1	LS	BOP/RP: Junction of FS Roads 3010 & 2005.
	23051	6.37	MILE	Begin Log Removal. Place on fill slope in stable position.
	30322	6.37	MILE	Begin Roadside brushing.
				Begin Road Reconditioning, compaction E.
0.03				RP: Gate.
0.77	20358	1	Each	Remove existing culvert.
	60278A	34	Foot	Install 24" culvert at minimum 7% grade.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
0.93	20358	1	Each	Remove existing culvert.
	60278A	40	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	60654A	20	Foot	Install outlet pipe.
1.20	20419	30	Foot	Construct ditch left 15' Ahead/Back.
1.24	20358	1	Each	Remove existing culvert.
	60278A	40	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
1.37	20358	1	Each	Remove existing culvert.
	60278A	40	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
1.38	20358	1	Each	Remove existing culvert.
	60278A	34	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	60654A	30	Foot	Install outlet pipe.
1.66	20358	1	Each	Remove existing culvert.
	60278A	28	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
1.78	20358	1	Each	Remove existing culvert.
	60278A	30	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
1.86	20358	1	Each	Remove existing culvert.
	60278A	28	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
1.97				RP: Y-Junction right 3405.
2.04				Disposal Site beyond Landing 6A on right.
2.09	32207B	10	CY*	Place aggregate 30' Ahead/35' Back.
2.19	15713	1	LS	Dewater site.
	20358	1	Each	Remove existing culvert.
	25101	10	CY*	Armor backslope and catchbasin.
	60278A	32	Foot	Install 24" ditch relief culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
2.30	20419	50	Foot	Construct ditch left 25' Ahead/Back.



WORK DESCRIPTION
ROAD 2005

NOTE: * denotes Contract Quantities

<u>MILEPOST</u>	<u>PAY ITEM</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>DESCRIPTION</u>
2.34				Disposal Site right, remove alder as flagged by C.O.
2.39	20358	1	Each	Remove existing culvert.
	60278A	34	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
2.66	20358	1	Each	Remove existing culvert.
	60278A	30	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
2.92	20358	1	Each	Remove existing culvert.
	60278A	32	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
3.33				RP: Gate
3.48	20358	1	Each	Remove existing culvert.
	60278A	40	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
3.64				Disposal Site left, remove alder as flagged by C.O.
4.06	20358	1	Each	Remove existing culvert.
	60278A	30	Foot	Install 24" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	60654A	20	Foot	Install outlet pipe.
5.32	32207B	20	CY*	Place aggregate to repair shoulder erosion.
5.37	32207B	40	CY*	Place aggregate on curve 130' Ahead/Back.
5.88	20208	1	LS	Remove alder trees at inlet.
	20358	1	Each	Remove existing culvert.
	60278B	40	Foot	Install 36" culvert.
	32207B	10	CY*	Place 6" depth bedding material and 12" depth compacted surfacing.
	25101	3	CY*	Construct outlet dissipator.
6.37	20304			End log removal.
	23051			End Roadside brushing.
	30322			End Road Reconditioning, compaction E.
				EOP/RP: Rock quarry



FP- 03 SPECIFICATION LIST FOR WOODS THIN STEWARDSHIP

All specifications not included in the specification listing, but referenced by listed specifications, are applicable.

The supplements shown on the specification list are physically attached.

	<u>Title</u>	<u>Revised</u>	<u>2005</u>
Preface	Preface	FP03 & 3/15/2004	X
101	Terms, Format, and Definitions	FP03	X
101 .01	Meaning of Terms	1/22/2009	X
101 .01	Meaning of Terms	1/22/2009	X
101 .03	Abbreviations	6/16/2006	X
101 .04	Definitions	3/29/2007	X
101 .04	Definitions	11/6/2007	X
102	Bid, Award, and Execution of Contract	FP03	X
102	Delete entire section	2/16/2005	X
103	Scope of Work	FP03	X
103	Delete 103.02 through 103.05	2/16/2005	X
104	Control of Work	FP03	X
104 .00	Delete 104.01, 104.02, 104.04	6/16/2006	X
104 .03	Specifications and Drawings	1/22/2009	X
104 .06	Use of Road by Contractor	2/17/2005	X
105	Control of Material	FP03	X
105 .02	Material Sources	3/8/2007	X
105 .05	Use of Materials Found in the Work.	5/12/2004	X
106	Acceptance of Work	FP03	X
106 .01	Conformity with Contract Requirements	7/31/2007	X
106 .07	Delete	5/11/2004	X
107	Legal Relations and Responsibility to the Public	FP03	X
107 .05	Responsibility for Damage Claims	5/11/2004	X
107 .06	Contractor's Responsibility for Work	6/16/2006	X
107 .08	Sanitation, Health and Safety	3/29/2005	X
107 .09	Legal Relationship of the Parties	6/16/2006	X
108	Prosecution and Progress	FP03	X
108	Delete entire section	2/16/2005	X
109	Measurement and Payment	FP03	X
109	Deletions 109.06 through 109.09	2/17/2005	X
109 .02	Measurement Terms and Definitions	6/16/2006	X
151	Mobilization	FP03	X
155	Schedules for Construction Contracts	FP03	X
155 .00	Delete	5/11/2004	X
156	Public Traffic	FP03	X
156 .00	Complete Specification	4/17/2007	X
157 .00	Complete Specification - Soil Erosion Control	2/3/2009	X
170 .00	Complete Specification - Develop Water Supply and Watering	3/26/2007	X
201	Clearing and Grubbing	FP03	X
201 .01	Description	2/18/2005	X
201 .00	Material	8/5/2009	X
201 .04	Clearing	2/22/2005	X
201 .04	Clearing	3/3/2005	X
201 .06	Disposal	2/18/2005	X
201 .06	Disposal	11/9/2005	X
201 .06	Disposal	3/26/2007	X

FP- 03 SPECIFICATION LIST FOR WOODS THIN STEWARDSHIP

All specifications not included in the specification listing, but referenced by listed specifications, are applicable.

The supplements shown on the specification list are physically attached.

<u>Title</u>	<u>Revised</u>	<u>2005</u>	
203	Removal of Structures and Obstructions	FP03	X
203 .01	Description	2/25/2005	X
203 .04	Removing Material	2/18/2005	X
203 .05	Disposing of Material	5/30/2007	X
203 .05	Disposing of Material	3/26/2007	X
203 .08	Payment	2/24/2005	X
204 .00	Complete Specification - Excavation and Embankment	2/11/2008	X
209	Structure Excavation and Backfill	FP03	X
209 .07	Dewatering	7/12/2007	X
209 .10	Backfill	10/23/2007	X
209 .11	Compacting.	2/24/2005	X
230 .00	Complete Specification - Roadside Brushing	3/31/2010	X
303	Road Reconditioning	FP03	X
303 .01	Work	9/10/2008	X
303 .04	Shoulder Reconditioning	11/26/2008	X
303 .05	Roadbed Reconditioning	3/26/2007	X
303 .10	Measurement	3/26/2007	X
303 .10	Measurement	3/29/2005	X
322 .00	Complete Specification - Minor Aggregate Courses	10/14/2011	X
602	Culverts and Drains	FP03	X
602 .03	General.	9/6/2005	X
602 .06	Laying Plastic Pipe.	8/5/2009	X
606	Corrugated Metal Spillways	FP03	X
607	Cleaning, Reconditioning, and Repairing Existing Drainage Structures	FP03	X
635	Temporary Traffic Control	FP03	X
635 .03	General.	5/13/2004	X
703	Aggregate	FP03	X
703 .05	Subbase, Base, & Surface Course and screened Aggregate	8/14/2009	X
703 .05	Subbase, Base, & Surface Course and screened Aggregate (pit run)	3/26/2007	X
703 .05	Delete Table 703-2 and replace with the following:	7/14/2010	X
703 .10	Flakiness Index	4/11/2011	X
718	Traffic Signing and Marking Material	FP03	X
718 .05	Aluminum Panels	8/5/2009	X