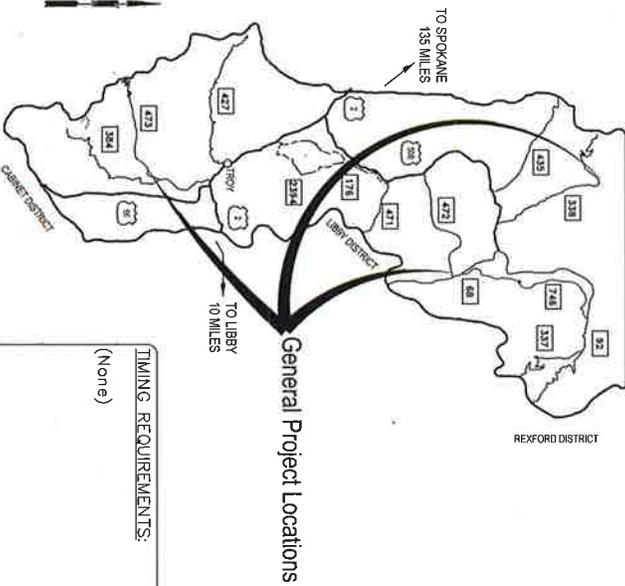
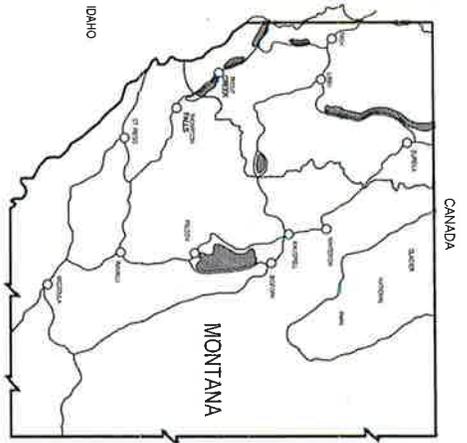


Appendix T Project 20

UNITED STATES DEPARTMENT OF AGRICULTURE
 FOREST SERVICE - REGION ONE
 OLY MOLY STEWARDSHIP PLANS FOR
 OPTIONAL ROAD AND BRIDGE MAINTENANCE
 LINCOLN COUNTY, MONTANA

Optional District Bridge Approach Paving Project

KOOTENAI NATIONAL FOREST
 THREE RIVERS RANGER DISTRICT



General Project Locations

INDEX	
SHEET DESCRIPTION	PAGE NO.
Title Sheet	1
Project Map	2
Quantities, Notes, & Work List	3
Typical Section	4

TIMING REQUIREMENTS:
 (None)

PREPARED BY: [Signature] 8/15/16
 PROJECT ENGINEER DATE

REVIEWED BY: [Signature] 8/15/16
 ZONE ENGINEERING TEAM LEADER DATE

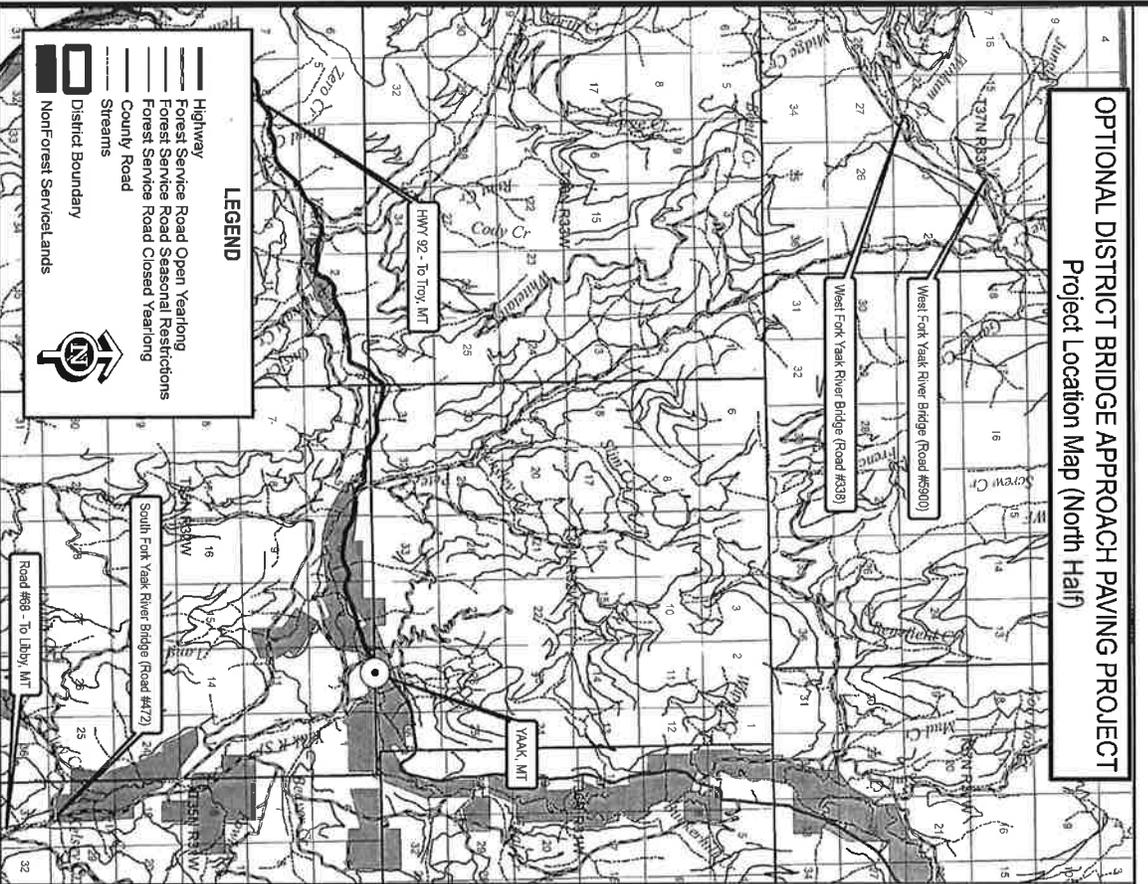
MULTIPLE RESOURCE REVIEW BY: [Signature] 8-15-16
 DISTRICT RANGER DATE

I certify that this project has been designed in accordance with sound engineering practices.
[Signature] 8/19/16
 FOREST ENGINEER DATE

SHEET NUMBER	TOTAL SHEETS
1	4

Project Map

OPTIONAL DISTRICT BRIDGE APPROACH PAVING PROJECT Project Location Map (North Half)

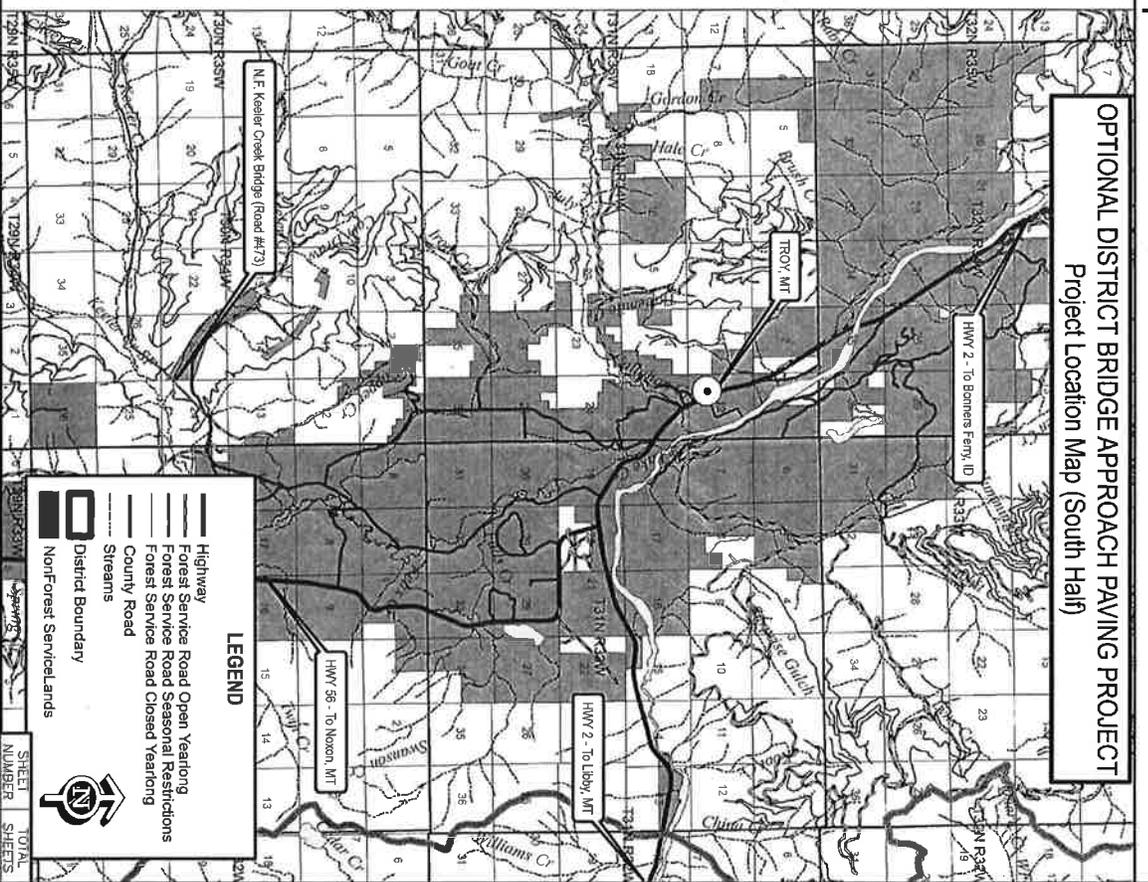


LEGEND

- Highway
- Forest Service Road Open Yearlong
- Forest Service Road Seasonal Restrictions
- Forest Service Road Closed Yearlong
- County Road
- Streams
- District Boundary
- Non-Forest Service Lands



OPTIONAL DISTRICT BRIDGE APPROACH PAVING PROJECT Project Location Map (South Half)



LEGEND

- Highway
- Forest Service Road Open Yearlong
- Forest Service Road Seasonal Restrictions
- Forest Service Road Closed Yearlong
- County Road
- Streams
- District Boundary
- Non-Forest Service Lands



OPTIONAL DISTRICT BRIDGE APPROACH PAVING PROJECT

SHEET NUMBER	TOTAL SHEETS
2	4

Summary of Quantities, General Notes, & Detailed Work List

SUMMARY OF QUANTITIES:

ITEM NO	ITEM DESCRIPTION	METHOD OF MEASURE	UNIT OF MEASURE	N.F. KEELER CREEK BRIDGE	S.F. YAAK RIVER BRIDGE	W.F. YAAK RIVER BRIDGE (RD 5900)	W.F. YAAK RIVER BRIDGE (RD 338)	TOTAL
15101	MOBILIZATION	LSQ	LS	ALL	ALL	ALL	ALL	ALL
30357	ROADWAY RECONDITIONING, COMPACTION METHOD B	AQ	FT	300	425	300	300	1025
40401	MINOR HOT ASPHALT CONCRETE	CO	TON	90	159	90	101	339
62201	EQUIPMENT RENTAL, MOTOR GRADER	AQ	HR	2	2	2	2	6

GENERAL NOTES:

- A. CONSTRUCT THE PROJECT IN COMPLIANCE WITH FEDERAL HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-403) AND APPLICABLE FOREST SERVICE SUPPLEMENTAL SPECIFICATIONS (FSSS) FOUND IN THE MASTER STEWARDSHIP AGREEMENT.
- B. ITEM 30357 - WORK IDENTIFIED IN DETAILED WORK LIST AND IN THE SUMMARY OF QUANTITIES TO PROVIDE ADEQUATE BASE COURSE PREPARATION FOR ASPHALT SURFACING.
- C. ITEM 40401 - A THREE INCH DEPTH HOT MIX ASPHALT OVERLAY IS SPECIFIED IN DETAILED WORK LIST AND IN THE SUMMARY OF QUANTITIES. PAVEMENT SMOOTHNESS REQUIREMENTS ARE DETAILED IN SECTION 404.08 OF THE SPECIFICATIONS. TRANSITION FROM THE AGGREGATE COURSE AND TIMBER BRIDGE DECK TO ASPHALT SURFACE SHALL PROVIDE A SMOOTH AND SEAMLESS APPROACH WITHOUT AN ABRUPT OR EXPOSED EDGE.
- D. TYPICAL ASPHALT MIX DESIGNS APPROVED BY THE FOREST SERVICE HAVE AN ASPHALT CONTENT AT OR NEAR 5.8% AND 3% AIR VOIDS.
- E. LENGTHS IN DETAILED WORK LIST ARE CALCULATED FROM EDGE OF BRIDGE DECK TO END OF APPROACH.
- F. S.F. YAAK RIVER BRIDGES EASTERN APPROACH LENGTH IS INTENDED TO CONNECT BRIDGE DECK WITH EXISTING ASPHALT OF FOREST SERVICE ROAD #88.
- G. ITEMS 62201 SHALL BE CONSIDERED FOR WORK NOT INCIDENTAL TO PAY ITEMS LISTED ON THIS SHEET (SEE NOTE BELOW). THE GOVERNMENT RESERVES THE RIGHT TO EXERCISE THE OPTIONAL EQUIPMENT RENTAL BY THE END OF THE PROJECT.
- H. ALL ITEMS OF REQUIRED WORK FOR MENTIONED ROAD SLIDE AND BRIDGE REPAIR NOT FOUND IN THE SUMMARY OF QUANTITIES ABOVE SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND WILL NOT BE PAID OUT AS SEPARATE PAY ITEMS. THESE ITEMS INCLUDE BUT ARE NOT LIMITED TO: POT HOLE REPAIR, BLUE TOP GRADE STAKING, TRAFFIC CONTROL, AND BLADING OF AGGREGATOR NATIVE COURSE TRANSITION FROM INSTALLED ASPHALT.

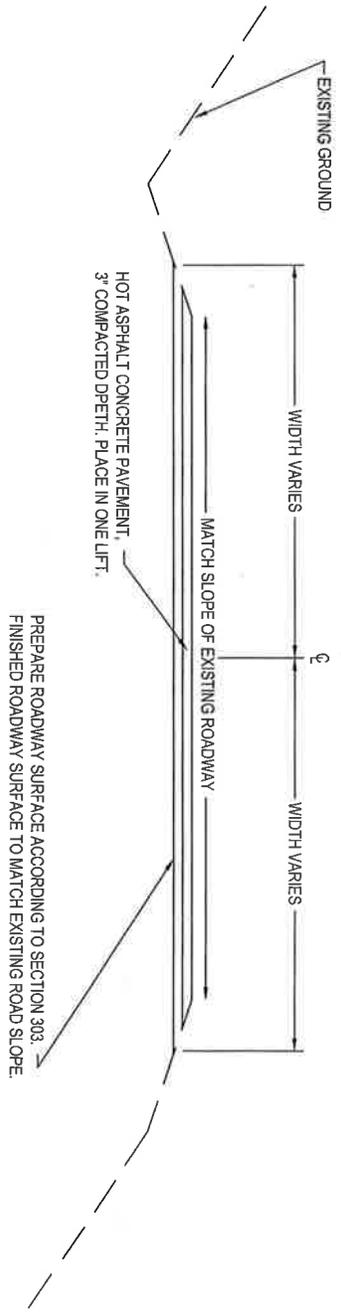
DETAILED WORK LIST:

N.F. Keeler Creek Bridge No. 473-2.6	
West Side Approach Length (ft)=	100
East Side Approach Length (ft)=	200
Road Width (ft)=	16
S.F. Yaak River Bridge No. 472-15.7	
West Side Approach Length (ft)=	175
East Side Approach Length (ft)=	250
Road Width (ft)=	20
W.F. Yaak River Bridge No. 5900-0.5	
North Side Approach Length (ft)=	150
South Side Approach Length (ft)=	150
Road Width (ft)=	16
W.F. Yaak River Bridge No. 338-14.1	
North Side Approach Length (ft)=	150
South Side Approach Length (ft)=	150
Road Width (ft)=	18

OPTIONAL DISTRICT BRIDGE APPROACH PAVING PROJECT

SHEET NUMBER	TOTAL SHEETS
3	4

Typical Section



OPTIONAL DISTRICT BRIDGE APPROACH PAVING PROJECT

SHEET NUMBER	TOTAL SHEETS
4	4

Engineer's Estimate
(Timber Sale)

OLY MOLY STEWARDSHIP OPTIONAL
DISTRICT BRIDGE APPROACH PAVING
PROJECT

Timber Sale _____
Bridge Name _____
N.F. KEELER CREEK

Road No. 473
Length (Miles) 0.06

Item Number	Description	Method of Meas.	Unit	Quantity	Unit Price	Total
-------------	-------------	-----------------	------	----------	------------	-------

TOTAL ALL ROADS: \$ 72,918.84

Engineer's Estimate
(Timber Sale)

Timber Sale OLY MOLY STEWARDSHIP OPTIONAL
Bridge DISTRICT BRIDGE APPROACH PAVING
Name PROJECT
S.F. YAAK RIVER

Road No. 472
Length (Miles) 0.08

Item Number	Description	Method of Meas.	Unit	Quantity	Unit Price	Total
-------------	-------------	-----------------	------	----------	------------	-------

TOTAL ALL ROADS: \$ 72,918.84

SUB-TOTAL: \$ 16,851.90

TOTAL ALL ROADS: \$ 72,918.84

SUB-TOTAL: \$ 15,133.16

TOTAL ALL ROADS: \$ 72,918.84