

**BUREAU OF LAND MANAGEMENT  
ELKO FIELD OFFICE  
BURNED AREA EMERGENCY REHABILITATION PLAN AND ACCOMPLISHMENT REPORT**

**PART F - SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	<b>RESTORE DRAINAGE AND GRADE TO ROADS DAMAGED BY FIRE SUPPRESSION</b>	<b>AGENCY:</b>	<b>BLM Elko F.O.</b>
<b>PART E LINE ITEM:</b>	<b>S-6 (BLM 98-148 III. M) Facility Replacement</b>	<b>FISCAL YEAR(S) (list each year):</b>	<b>2000</b>

**I. WORK TO BE DONE**

<b>Number and Describe Each Task:</b>	
<b>A. General Description:</b>	Rehabilitation of preexisting roads is necessary to avoid erosion gullies and ponding on road surfaces due to blockage of drainage diversions by berms. The intent is not to improve the roads beyond the pre-existing condition but to reestablish drainage and surface requirements for public safety. Road regrading should occur after sufficient moisture is available to reconstruct roads to pre-fire condition. Many of these roads provide primary access to private property, permittee allotments, recreational users, and the public at large
<b>Equipment Use:</b>	A grader is generally the preferred equipment assisted by other equipment to improve its effectiveness.
<b>B. Location (Suitable) Sites:</b>	See treatment map for location of road regrading.
<b>C. Design/Construction Specifications:</b>	<ol style="list-style-type: none"> <li>1. Pull berm on outside edge of road, including side cast material, back onto road surface.</li> <li>2. Maintain integrity of natural drainages; reestablish rolling dips where damaged.</li> <li>3. Spot gravel critical areas.</li> </ol>
<b>D. Purpose of Treatment Specifications:</b>	Protect the users, reduce hazards, and prevent further deterioration of roads.

**II. LABOR, MATERIALS AND OTHER COST:**

<b>▶ PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item Do not include contract personnel costs here (see contractor services below).</b>	<b>COST/ITEM</b>
GS-11 @ 22.50 / hour x 10 hours / day x 55 days x 1 year	\$12,375.00
<b>TOTAL PERSONNEL SERVICE COST</b>	<b>\$12,375.00</b>
	<b>COST/ITEM</b>
<b>TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST</b>	
<b>▶ MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item:</b>	<b>COST/ITEM</b>
Road gravel: 1,370 cu. yds. per mile at \$10 per yard X 32.75 miles x 1 year	\$448,675.00
<b>TOTAL MATERIALS AND SUPPLY COST</b>	<b>\$448,675.00</b>
<b>▶ TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item:</b>	<b>COST/ITEM</b>
<b>TOTAL TRAVEL COST</b>	
<b>▶ CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>

Road grading: 54.35 miles (total miles) at \$1,000 per mile	\$54,350.00
Contract administration and oversight (4% of contract cost to agency)	\$2,174.00
<b>TOTAL CONTRACT COST</b>	<b>\$56,524.00</b>

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Miles	\$9,522.98	54.35	\$517,574.00	F	C
FY 2						
FY 3						
<b>TOTAL:</b>	<b>Miles</b>	<b>\$9,522.98</b>	<b>54.35</b>	<b>\$517,574.00</b>	<b>F</b>	<b>C</b>

**FUNDING SOURCES:**

**F** = Fire Suppression Account  
**EFR** = Emergency Fire Rehabilitation  
**OP** = Agency Operating Fund  
**O** = Other

**METHODS:**

**P** = Agency Personnel Services  
**C** = Contract (Long-Term)  
**EFC** = Emergency Fire Contract  
**FC** = Crew Labor Assigned to Fire

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M, C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account.	

**P** = Personnel Services, **M** = Materials/Supplies, **T** = Travel, **C** = Contract, **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

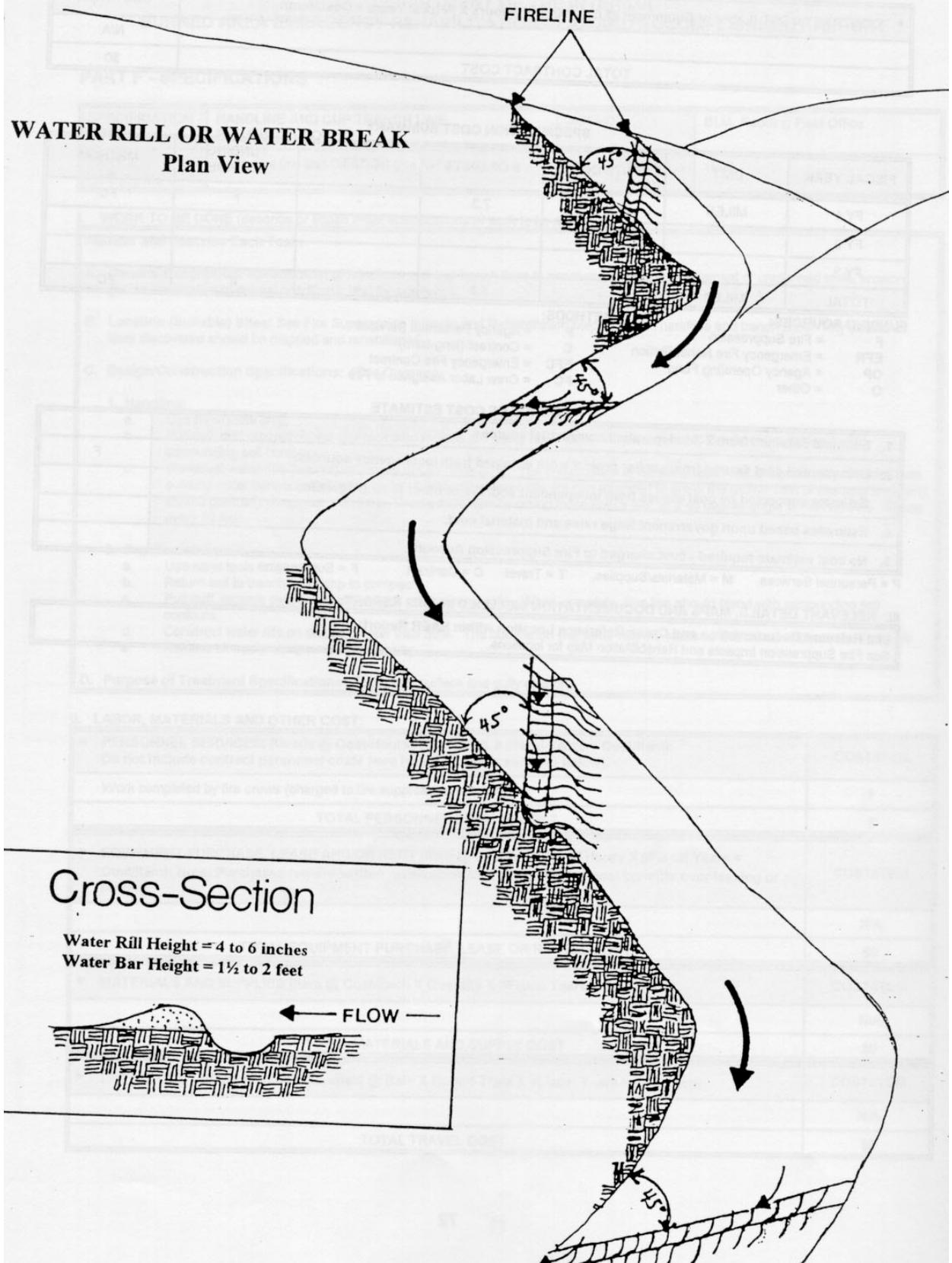
List Relevant Documentation and Cross-Reference Location within BAER Report:  
 Cost and quantity estimates from Norman Rockwell, Elko FO Roads Engineer and Elko Sand and Gravel Company.  
 See Map Index, Treatment Section.

**IV. TOTAL COST BY FIRE**

FIRE NAME	UNITS TREATED	COST
Basin	8.1	\$77,136.00
Beowawe	10.1	\$96,182.00
Hogan	14.4	\$137,131.00
Kelly Creek	9.5	\$90,468.00
Linka	12.25	\$116,657.00

<b>TOTAL COST</b>	<b>54.35</b>	<b>\$517,574.00</b>
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# WATER RILL OR WATER BREAK Plan View



## Cross-Section

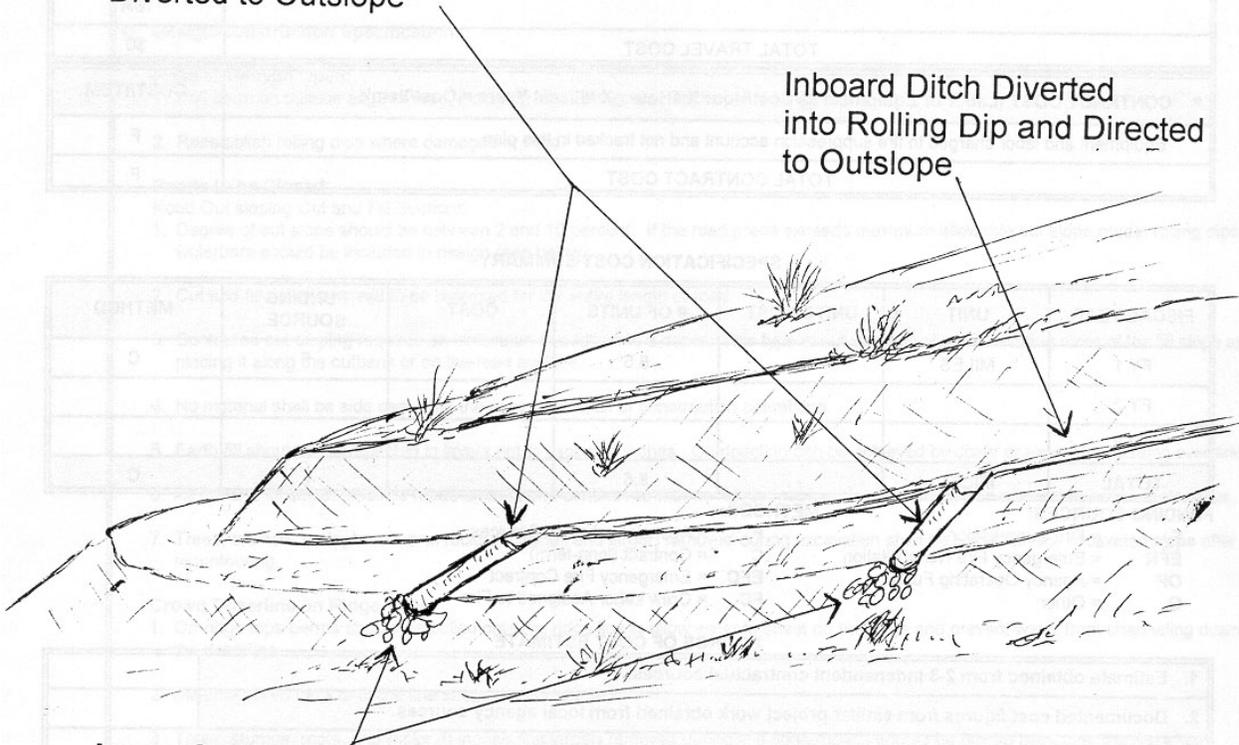
Water Rill Height = 4 to 6 inches  
Water Bar Height = 1½ to 2 feet



# Rolling Dip Construction

Rolling Dips Constructed at  
Approximately 45 Degree  
Angle to Road Bed and  
Diverted to Outslope

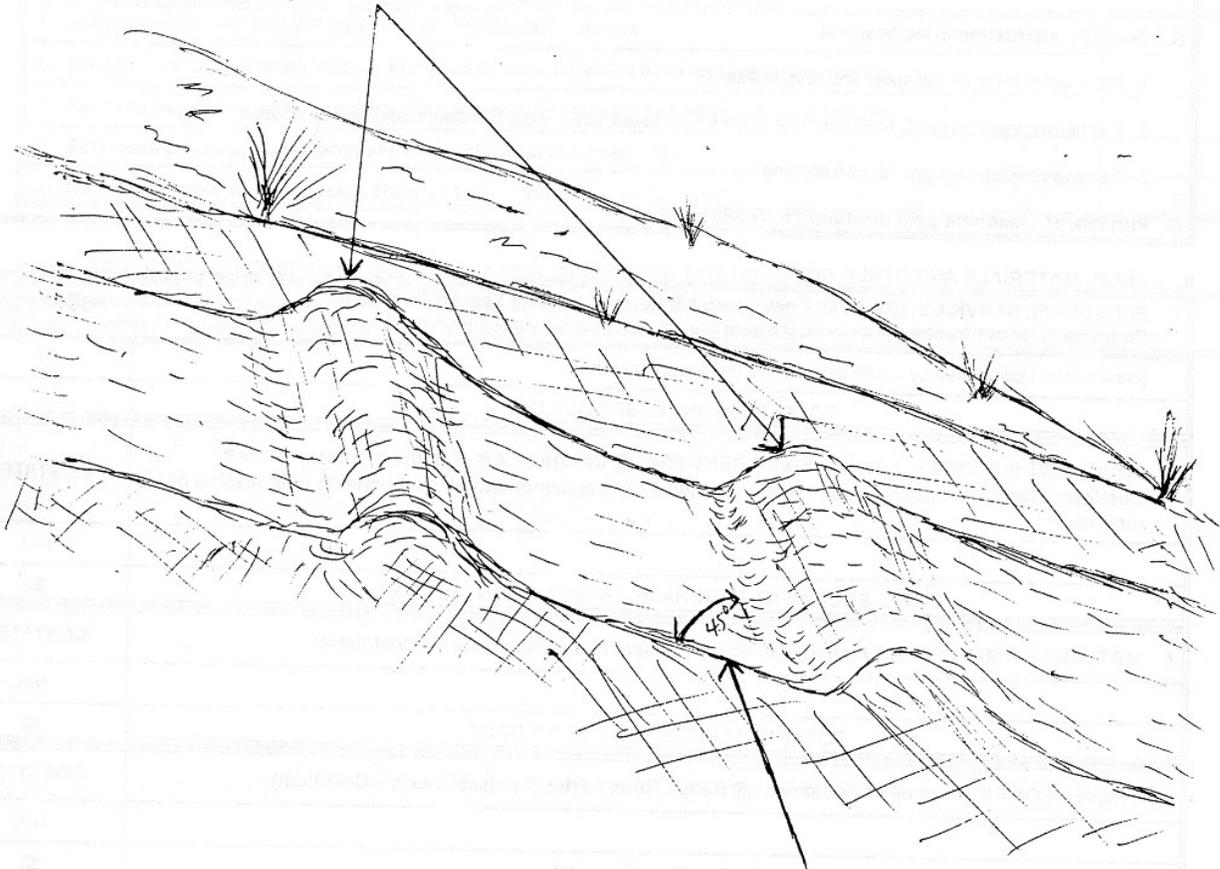
Inboard Ditch Diverted  
into Rolling Dip and Directed  
to Outslope



Armor Outlets to  
Prevent Gully Erosion  
on Outslope

# Water Bar Construction

Berms Constructed 2 to 3 Feet High of Compacted Fill



Berms Constructed at Approximately 45 Degree Towards Outslope