

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE N/A	PAGE 1 of 2
2. AMENDMENT/MODIFICATION NO. <b>A002</b>	3. EFFECTIVE DATE July 9, 2008	4. REQUISITION/PURCHASE NO. N/A	5. PROJECT NO. (If applicable) ID PFH 80-1(1) FERNAN LAKE ROAD	
6. ISSUED BY Department of Transportation Federal Highway Administration 610 East Fifth Street Vancouver WA 98661-3801		CODE N/A	7. ADMINISTERED BY (If other than Item 6) CODE N/A	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code)			<b>X</b>	9A. AMENDMENT OF SOLICITATION NO. DTFH70-07-B-00016
				9B. DATED (SEE ITEM 11) JUNE 18, 2008
				10A. MODIFICATION OF CONTRACT/ORDER NO. N/A
				10B. DATED (SEE ITEM 13) N/A
CODE: N/A		FACILITY CODE: N/A		

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers

( ) is extended, (  ) is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

A	THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. N/A
B	THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (Such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). N/A
C	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: N/A
D	OTHER (Specify type of modification and authority) N/A

**E. IMPORTANT: Contractor n/a is not, n/a is required to sign this document and return n/a copies to the issuing office.**

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

ID PFH 80-1(1), FERNAN LAKE ROAD

See page 2 for revisions.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15a. NAME AND TITLE OF SIGNER (Type or print)		15a. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		N/A	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
BY _____ (Signature of person authorized to sign)		BY <u>N/A</u> (Signature of Contracting Officer)	N/A

## REVISIONS ARE AS FOLLOWS:

### BID SCHEDULE

Page A-18, Bid schedule. Revises description of *bid item 65101-1000* from “Draped Rockfall Protection, Wire Mesh” to “Draped Rockfall Protection, Wire Mesh **System**”.

**Notice to Bidders:** We have included the entire bid schedule (with revised page A-18) for you to use when submitting your bid.

### SPECIAL CONTRACT REQUIREMENTS

Pages E-23 and E-24, *Subsection 109.06A Adjustment for Price Fluctuations*. Revises web page link for BPI and MPPI in (a)(2) and (b)(2).

Page F-55, *Subsection 651.03 General*. Lowers requirements of the Professional Engineer.

Page F-69, *Subsection 651.18*. Changes measurement of rock nails, verification and proof testing

Page G-11, *Table 714-7*. Increases maximum aperture size

### PLANS - PEN AND INK CHANGES

Please make the following pen & ink changes:

Plan sheet #B.5 Change *bid item 65101-1000* from “Draped Rockfall Protection, Wire Mesh” to “Draped Rockfall Protection, Wire Mesh **System**”.

Plan sheet #G.1 Change *bid item 65101-1000* from “Draped Rockfall Protection, Wire Mesh” to “Draped Rockfall Protection, Wire Mesh **System**”.

### ENCLOSURES

Pages: A-7 through A-18  
E-23, E-24  
F-55  
F-69  
G-11

Plan sheets not included due to Pen and Ink changes:  
B.5  
G.1

Bid Schedule

Project: ID PFH 80-1(1)  
 FERNAN LAKE ROAD

Bidder please note: Before preparing the bid, carefully read the Solicitation Provisions.

Insert a unit bid price, in figures, for each pay item for which a quantity appears in the bid schedule. Multiply the unit price by the quantity for each pay item and show the amount bid. Should any mathematical check made by the Government show a mistake in the amount bid, the Amount Bid for the item will be based on the Unit Bid Price.

When "LPSM" (Lump Sum) appears as a unit bid price, insert an amount for each lump sum pay item.

When a sum based on a fixed rate appears for any pay item in the amount bid column, include the Government inserted amount bid for the item in the total bid amount.

Total the amounts bid for all pay items and insert the total bid amount.

The quantities for the following items of work are Contract Quantities (see FP-03 Subsection 109.02):

20101-0000, 20401-0000, 21101-1000, 55201-0200, 55302-3200, 55401-1000, 55601-1100, 56401-1000, 62012-2000, 62012-2000, 62402-0200, 62406-0200, 63302-0000

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15101-0000	MOBILIZATION		
	ALL	Lump Sum	\$ _____
15201-0000	CONSTRUCTION SURVEY AND STAKING		
	ALL	Lump Sum	\$ _____
15301-0000	CONTRACTOR QUALITY CONTROL		
	ALL	Lump Sum	\$ _____
15401-0000	CONTRACTOR TESTING		
	ALL	Lump Sum	\$ _____
15701-0000	SOIL EROSION CONTROL , TURBIDITY CURTAIN		
	ALL	Lump Sum	\$ _____
15702-1000	SOIL EROSION CONTROL, TEMPORARY DIVERSION CHANNEL		
	ALL	Lump Sum	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
 FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
15703-1000	SOIL EROSION CONTROL, SOIL STABILIZATION 18.74 ACRE	\$ _____	\$ _____
15705-0100	SOIL EROSION CONTROL, SILT FENCE 3,235 LNFT	\$ _____	\$ _____
15705-1500	SOIL EROSION CONTROL, SEDIMENT WATTLE 26,100.0 LNFT	\$ _____	\$ _____
15705-1600	SOIL EROSION CONTROL, ABSORBENT BOOM 500.0 LNFT	\$ _____	\$ _____
15706-0400	SOIL EROSION CONTROL, SEDIMENT TRAP 9 EACH	\$ _____	\$ _____
15801-0000	WATERING FOR DUST CONTROL 9,800 MGAL	\$ _____	\$ _____
20101-0000	CLEARING AND GRUBBING 44.7 ACRE	\$ _____	\$ _____
20301-0300	REMOVAL OF BOX CULVERT (WOODEN) 3 EACH	\$ _____	\$ _____
20301-1600	REMOVAL OF MAILBOX 14 EACH	\$ _____	\$ _____
20301-1900	REMOVAL OF PIPE CULVERT 7 EACH	\$ _____	\$ _____
20301-2400	REMOVAL OF SIGN 18 EACH	\$ _____	\$ _____
20302-0700	REMOVAL OF FENCE 8,100.0 LNFT	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
20401-0000	ROADWAY EXCAVATION 234,358 CUYD	\$ _____	\$ _____
20402-0000	SUBEXCAVATION (STABILIZATION TYPE I) 11,000 CUYD	\$ _____	\$ _____
20402-0000	SUBEXCAVATION (STABILIZATION TYPE II) 455 CUYD	\$ _____	\$ _____
20411-0000	SELECT BORROW 7,439 TON	\$ _____	\$ _____
20465-0000	CONSERVE AND PLACE BOULDER 110 EACH	\$ _____	\$ _____
20501-0000	CONTROLLED BLAST HOLE 19,000 LNFT	\$ _____	\$ _____
20504-0000	BLASTING CONSULTANT ALL	Lump Sum	\$ _____
20701-0100	EARTHWORK GEOTEXTILE, TYPE I-A 15,800 SQYD	\$ _____	\$ _____
20701-1000	EARTHWORK GEOTEXTILE, TYPE III-A 31,000 SQYD	\$ _____	\$ _____
20701-1200	EARTHWORK GEOTEXTILE, TYPE IV-A 120 SQYD	\$ _____	\$ _____
20703-2000	GEOGRID, BIAXIAL 11,000 SQYD	\$ _____	\$ _____
20810-0000	SHORING AND BRACING ALL	Lump Sum	\$ _____
20815-0000	COFFERDAMS ALL	Lump Sum	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
21101-1000	ROADWAY OBLITERATION, METHOD 1 2,616 SQYD	\$ _____	\$ _____
25101-2000	PLACED RIPRAP, CLASS 2 1,000 CUYD	\$ _____	\$ _____
25101-2000	PLACED RIPRAP, CLASS 2 , (ENERGY DISSIPATOR) 150 CUYD	\$ _____	\$ _____
25101-4000	PLACED RIPRAP, CLASS 4 6,600 CUYD	\$ _____	\$ _____
25101-5000	PLACED RIPRAP, CLASS 5 8,400 CUYD	\$ _____	\$ _____
25101-6000	PLACED RIPRAP, CLASS 6 100 CUYD	\$ _____	\$ _____
25120-1000	RIPRAP DITCH, CLASS 1 300 LNFT	\$ _____	\$ _____
25120-2000	RIPRAP DITCH, CLASS 2 190 LNFT	\$ _____	\$ _____
25205-0000	ROCK BUTTRESS 80 CUYD	\$ _____	\$ _____
25501-3000	MECHANICALLY STABILIZED EARTH WALL, MODULAR BLOCK FACE 5,050 SQFT	\$ _____	\$ _____
25510-0000	SELECT GRANULAR BACKFILL 4,300 CUYD	\$ _____	\$ _____
30101-2000	AGGREGATE BASE GRADING D 45,200 TON	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
30302-1000	DITCH RECONDITIONING 124 LNFT	\$ _____	\$ _____
40101-1000	SUPERPAVE PAVEMENT, 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL , TYPE III ROUGHNESS 17,610 TON	\$ _____	\$ _____
40101-1000	SUPERPAVE PAVEMENT, 3/4-INCH NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL , TYPE IV ROUGHNESS 720 TON	\$ _____	\$ _____
40105-3000	ANTISTRIP ADDITIVE, TYPE 3 190 TON	\$ _____	\$ _____
41101-1000	PRIME COAT, GRADE CMS-2 90 TON	\$ _____	\$ _____
41105-0000	BLOTTER 1,435 TON	\$ _____	\$ _____
41201-1000	TACK COAT GRADE CSS-1, CSS-1H, SS-1, OR SS-1H 22 TON	\$ _____	\$ _____
55101-0200	CONCRETE FILLED STEEL PIPE PILES, IN PLACE 2,469 LNFT	\$ _____	\$ _____
55101-1100	STEEL H-PILES, IN PLACE 228 LNFT	\$ _____	\$ _____
55116-0000	SPLICE 8 EACH	\$ _____	\$ _____
55201-0200	STRUCTURAL CONCRETE, CLASS A (AE) 664 CUYD	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
55302-3200	PRECAST, PRESTRESSED CONCRETE GIRDERS , 42" 1,717 LNFT	\$ _____	\$ _____
55401-1000	REINFORCING STEEL 142,800 LB	\$ _____	\$ _____
55601-1100	BRIDGE RAILING, STEEL, TWO RAIL 876 LNFT	\$ _____	\$ _____
56401-1000	BEARING DEVICE, ELASTOMERIC 8 EACH	\$ _____	\$ _____
57502-0000	TEMPORARY BRIDGE WORKPADS ALL	Lump Sum	\$ _____
60201-0600	18-INCH PIPE CULVERT 425 LNFT	\$ _____	\$ _____
60201-0800	24-INCH PIPE CULVERT 2,055 LNFT	\$ _____	\$ _____
60201-1000	36-INCH PIPE CULVERT 105 LNFT	\$ _____	\$ _____
60201-1200	48-INCH PIPE CULVERT 55 LNFT	\$ _____	\$ _____
60201-1800	84-INCH PIPE CULVERT 230 LNFT	\$ _____	\$ _____
60202-0800	48-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT 80 LNFT	\$ _____	\$ _____
60210-0800	END SECTION FOR 24-INCH PIPE CULVERT 20 EACH	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60211-1000	END SECTION FOR 36-INCH EQUIVALENT DIAMETER ARCH OR ELLIPTICAL PIPE CULVERT 1 EACH	\$ _____	\$ _____
60212-0600	ELBOW, 18-INCH 2 EACH	\$ _____	\$ _____
60212-0800	ELBOW, 24-INCH 1 EACH	\$ _____	\$ _____
60220-4400	14 FEET SPAN, 7 FEET RISE PRECAST REINFORCED CONCRETE BOX CULVERT 42 LNFT	\$ _____	\$ _____
60220-4450	14 FEET SPAN, 8 FEET RISE PRECAST REINFORCED CONCRETE BOX CULVERT 96.0 LNFT	\$ _____	\$ _____
60220-4550	14 FEET SPAN, 10 FEET RISE PRECAST REINFORCED CONCRETE BOX CULVERT 42 LNFT	\$ _____	\$ _____
60404-1000	CATCH BASIN, TYPE 1 5 EACH	\$ _____	\$ _____
60409-0200	INLET TOP, METAL FRAME AND GRATE TYPE B 5 EACH	\$ _____	\$ _____
60502-0000	GEOCOMPOSITE UNDERDRAIN SYSTEM 800 LNFT	\$ _____	\$ _____
60510-0300	4-INCH COLLECTOR PIPE , PERFORATED 1,474 LNFT	\$ _____	\$ _____
60510-0400	4-INCH OUTLET PIPE , SOLID 312 LNFT	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
60802-0400	PAVED WATERWAY, TYPE 4 16 LNFT	\$ _____	\$ _____
60902-1000	CURB AND GUTTER, CONCRETE, 12-INCH DEPTH 2,825 LNFT	\$ _____	\$ _____
60915-1000	WHEELSTOP, CONCRETE 8 EACH	\$ _____	\$ _____
61102-1700	2-INCH WATERLINE, POLYVINYL CHLORIDE (PVC) 110 LNFT	\$ _____	\$ _____
61701-1200	GUARDRAIL SYSTEM G4, TYPE 2, CLASS A STEEL POSTS 413 LNFT	\$ _____	\$ _____
61702-0800	TERMINAL SECTION TYPE TANGENT , STEEL POST 4 EACH	\$ _____	\$ _____
61707-0000	STRUCTURE TRANSITION RAILING , STEEL POST 42 LNFT	\$ _____	\$ _____
61711-0000	IMPACT ATTENUATOR 2 EACH	\$ _____	\$ _____
61801-0000	CONCRETE BARRIER 90 LNFT	\$ _____	\$ _____
61804-1000	TERMINAL SECTION, TYPE 1 2 EACH	\$ _____	\$ _____
61901-0000	FENCE , STEEL PANEL 3,207 LNFT	\$ _____	\$ _____
61901-0900	FENCE, BARBED WIRE, 4 STRAND 10,700 LNFT	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
61901-2253	FENCE, RAIL, 4 RAIL , WHITE VINYL 2,220 LNFT	\$ _____	\$ _____
61902-1200	GATE, METAL, 12 FEET WIDTH 12 EACH	\$ _____	\$ _____
61902-1300	GATE, METAL, 14 FEET WIDTH 6 EACH	\$ _____	\$ _____
61902-1400	GATE, METAL, 16 FEET WIDTH 6 EACH	\$ _____	\$ _____
62012-2000	STONE MASONRY SIGN BASE , HISTORIC 1 CUYD	\$ _____	\$ _____
62012-2000	STONE MASONRY SIGN BASE , USFS 3 CUYD	\$ _____	\$ _____
62101-0000	MONUMENT 185 EACH	\$ _____	\$ _____
62201-0250	DUMP TRUCK, 10 CUBIC YARD MINIMUM CAPACITY 100 HOUR	\$ _____	\$ _____
62201-1000	WHEEL LOADER, 4 CUBIC YARD MINIMUM RATED CAPACITY 100 HOUR	\$ _____	\$ _____
62201-2000	BULLDOZER, UNIVERSAL BLADE AND RIPPER, 300HP MINIMUM 100 HOUR	\$ _____	\$ _____
62201-2800	MOTOR GRADER, 8 FOOT MINIMUM BLADE 40 HOUR	\$ _____	\$ _____
62201-3150	HYDRAULIC EXCAVATOR, CRAWLER MOUNTED, 1.0 CUBIC YARD MINIMUM CAPACITY WITH THUMB ATTACHMENT 200 HOUR	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
62301-0000	GENERAL LABOR 250 HOUR	\$ _____	\$ _____
62402-0200	FURNISHING AND PLACING TOPSOIL, 3-INCH DEPTH 13.4 ACRE	\$ _____	\$ _____
62406-0200	PLACING CONSERVED TOPSOIL, 3-INCH DEPTH 2.5 ACRE	\$ _____	\$ _____
62541-4000	SEEDING SUPPLEMENTS, MULCH (CUYD) 1,500 TON	\$ _____	\$ _____
62901-1400	ROLLED EROSION CONTROL PRODUCT, TYPE 5.C 3,000 SQYD	\$ _____	\$ _____
63302-0000	SIGN SYSTEM 113 SQFT	\$ _____	\$ _____
63309-0100	DELINEATOR, TYPE 1 400 EACH	\$ _____	\$ _____
63401-0300	PAVEMENT MARKINGS, TYPE B, SOLID 195,000 LNFT	\$ _____	\$ _____
63401-0400	PAVEMENT MARKINGS, TYPE B, BROKEN 11,400 LNFT	\$ _____	\$ _____
63401-0450	PAVEMENT MARKINGS, TYPE B, DOTTED 2,450 LNFT	\$ _____	\$ _____
63502-0500	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 2 6 EACH	\$ _____	\$ _____
63502-0600	TEMPORARY TRAFFIC CONTROL, BARRICADE TYPE 3 6 EACH	\$ _____	\$ _____

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63502-0900	TEMPORARY TRAFFIC CONTROL, CONE, TYPE 28-INCH 300 EACH	\$ _____	\$ _____
63502-1300	TEMPORARY TRAFFIC CONTROL, DRUM , TYPE 3 FOOT 80 EACH	\$ _____	\$ _____
63502-1500	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE A 10 EACH	\$ _____	\$ _____
63502-1700	TEMPORARY TRAFFIC CONTROL, WARNING LIGHT TYPE C 15 EACH	\$ _____	\$ _____
63502-3100	TEMPORARY TRAFFIC CONTROL, TRAFFIC SIGNAL SYSTEM 2 EACH	\$ _____	\$ _____
63503-0400	TEMPORARY TRAFFIC CONTROL, CONCRETE BARRIER 200 LNFT	\$ _____	\$ _____
63503-0700	TEMPORARY TRAFFIC CONTROL, PAVEMENT MARKINGS 52,800 LNFT	\$ _____	\$ _____
63503-1000	TEMPORARY TRAFFIC CONTROL, PLASTIC FENCE 1,000 LNFT	\$ _____	\$ _____
63504-1000	TEMPORARY TRAFFIC CONTROL, CONSTRUCTION SIGN 441 SQFT	\$ _____	\$ _____
63506-0600	TEMPORARY TRAFFIC CONTROL, PILOT CAR 1,000 HOUR	\$ _____	\$ _____
63506-0700	TEMPORARY TRAFFIC CONTROL, TRAFFIC AND SAFETY SUPERVISOR 359 HOUR	\$ _____	\$ _____
63509-1000	TEMPORARY TRAFFIC CONTROL, FLAGGER 10,000 FIX HR RATE	43.00	430,000.00

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

Pay Item No.	Estimated Quantity	Unit Bid Price	Amount Bid
63610-1600	CONDUIT, 2-INCH, PVC 110 LNFT	\$ _____	\$ _____
63610-2800	CONDUIT, 4-INCH, PVC 420 LNFT	\$ _____	\$ _____
63610-3200	CONDUIT, 6-INCH, PVC 540 LNFT	\$ _____	\$ _____
64603-0200	FIXTURE, MAILBOX 19 EACH	\$ _____	\$ _____
64703-1000	MITIGATION, LANDSCAPING LOG 95 EACH	\$ _____	\$ _____
64703-5000	MITIGATION, ROOT WAD 55 EACH	\$ _____	\$ _____
64704-1000	MITIGATION, STREAMBED MATERIAL 960 CUYD	\$ _____	\$ _____
65101-1000	DRAPED ROCKFALL PROTECTION, WIRE MESH SYSTEM 3,000 SQYD	\$ _____	\$ _____

Revised by  
Amend A002

**TOTAL** \$ \_\_\_\_\_

Submitted by: \_\_\_\_\_

Name of Bidder

Bid Schedule - Base

Project: ID PFH 80-1(1)  
FERNAN LAKE ROAD

**Table 109-1  
Pricing Adjustment Pay Items**

<b>Pay Item Number</b>	<b>Pay Item Description</b>	<b>Product</b>
20401	Roadway excavation	Fuel
20402	Subexcavation	Fuel
30101	Aggregate base	Fuel
40101	Superpave pavement	Asphalt binder/fuel

Monthly adjustments will be accrued with the payment or rebate to be made in the final voucher. A partial price adjustment payment may be made once every 12 months or when the unpaid accrued increase exceeds \$10,000 when requested in writing. The Government will withhold a rebate when the deductive accrual exceeds \$10,000.

The maximum allowable monthly and final adjustment for payment to the Contractor or rebate to the Government is limited to 50% of the Base Price Index.

**(a) Asphalt Binder Adjustment.** The Government will determine price indexes using price data obtained from the “Asphalt Weekly Monitor<sup>®</sup>” by Poten and Partners, Inc. The weekly high and low selling price data for “Primarily PG 64-22 paving grades” reported for the West Coast (Spokane, Washington area) will be averaged and used to establish a Base Price Index (BPI) and a Monthly Performance Price Index (MPPI). These indexes are defined as follows:

**(1) Base Price Index.** The Base Price Index (BPI) is a price index determined by the arithmetic average for prices in the four “Asphalt Weekly Monitor<sup>®</sup>” publications immediately preceding the bid opening.

$$BPI_{(\text{Asphalt Binder})} = \$ [\text{PRICE TO BE INSERTED AT AWARD}] \text{ per ton}$$

**(2) Monthly Performance Price Index.** The Monthly Performance Price Index (MPPI) is the arithmetic average of the weekly price data from four “Asphalt Weekly Monitor<sup>®</sup>” publications issued before the last Wednesday of the month in which the work was performed.

The BPI and MPPI will be posted at  
[http://www.wfl.fhwa.dot.gov/construction/escalation/fernan\\_lake.htm](http://www.wfl.fhwa.dot.gov/construction/escalation/fernan_lake.htm)

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Price adjustments to asphalt binder will be calculated by the Government using a ratio of the MPPI/BPI to determine price adjustments as follows:

- No Price Adjustment – When the ratio MPPI/BPI falls within the range of 0.90 to 1.10, no price adjustment will be made for asphalt binder used in construction work performed during the relevant month.
- Government Rebate – When the ratio MPPI/BPI is calculated to be less than 0.90, the Government is due a rebate as follows:  
Government Rebate =  $(0.90 - \text{MPPI/BPI}) (\text{BPI}) (Q)$
- Contractor Payment - When the ratio MPPI/BPI is calculated to be greater than 1.10, the Contractor is due additional payment as follows:

$$\text{Contractor Payment} = (\text{MPPI/BPI} - 1.10) (\text{BPI}) (Q)$$

Where:

Q = Table 109-1 pay item quantity (tons) x (% Asphalt Binder/100). The percentage of asphalt binder as determined from the approved job-mix formula.

**(b) Fuel Price Adjustment.** The Government will determine price indexes for fuel using price data obtained from the Oil Price Information Service (OPIS) which publishes a daily report (Monday through Friday) on gasoline and distillate reseller prices. Gross No. 2 Distillate rack average price data for Ultra Low Sulfur No. 2 Diesel fuel reported for Spokane, WA, Code 970, PADD #5 will be averaged and used to establish a Base Price Index (BPI) and a Monthly Performance Price Index (MPPI). These indexes are defined as follows:

**(1) Base Price Index.** The Base Price Index (BPI) is a price index determined by the arithmetic average as specified above, reported in the OPIS publications for the four weeks immediately preceding the bid opening.

BPI (LOW SULFUR, NO. 2 DIESEL FUEL) = \$ [PRICE TO BE INSERTED AT AWARD] per U.S. gallon

**(2) Monthly Performance Price Index.** The Monthly Performance Price Index (MPPI) is the arithmetic average of the weekly price data from OPIS publications issued before the last Wednesday of the month in which the work was performed.

The BPI and MPPI will be posted at

[http://www.wfl.fhwa.dot.gov/construction/escalation/fernan\\_lake.htm](http://www.wfl.fhwa.dot.gov/construction/escalation/fernan_lake.htm)

Price adjustments to fuel will be calculated by the Government using a ratio of the MPPI/BPI to determine price adjustments as follows:

- No Price Adjustment – When the ratio MPPI/BPI falls within the range of 0.90 to 1.10, no price adjustment will be made for fuel used in construction work performed during the relevant month.
- Government Rebate – When the ratio MPPI/BPI is calculated to be less than 0.90, the Government is due a rebate as follows:

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Special Contract Requirements

Project: ID PFH 80-1(1), Fernan Lake Road

Provide documented test data from the system supplier/manufacturer to verify a minimum of 5 years demonstrated satisfactory performance of the proposed alternate slope stabilization system applications and capacities.

See information in the Bid Schedule and the Notice to Bidders regarding the submittal of alternate products for consideration as an equal.

**(a) Rock Fall Protection System Components**

**(1) High Strength Steel Wire Mesh:** See Section 726.01(b).

**(2) Miscellaneous Materials:** Miscellaneous hardware intrinsic for the system including, but not limited to:

- 1 inch diameter wire boundary rope;
- rope clamps;
- compression claws;
- spike plates;and
- other required fasteners or system stabilizing elements.

**(3) Rock Nails:** Provide in accordance with Section 726.

**(b) Corrosion Protection.** See Section 726.01(i).

**Construction Requirements**

**651.03 General.** Submit a project reference list verifying the successful construction completion of at least 3 permanent soil/rock nail projects during the past 3 years totaling at least 1000 square yards of wall/slope face area and at least 500 permanent soil/rock nails. Include a brief description of each project with the Owner's name and current phone number.

Provide an on-site rock nail work supervisor who is a registered professional engineer for the duration of the work and has experience in the construction of permanent soil/rock nail installations on at least 3 completed projects over the past 3 years. Also provide a drill rig operator who has experience installing permanent soil/rock nails on at least 3 projects over the past 3 years.

Submit 5 copies of the completed project reference list and a list identifying the supervising engineer, drill rig operator, and on site supervisors assigned to the project at least 30 calendar days before starting the rock fall protection system. Include a summary of each individual's experience on the personnel list and be complete enough for the CO to determine whether each individual satisfies the required qualifications. The CO will notify the Contractor, indicating approval or rejection, within 15 calendar days after receipt of a complete submission. Do not start work or order materials until receiving the CO's written notification of approval of the Contractor' qualifications.

Select a method of rock nail installation which includes:

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**(b) Proof Test Rock Nails.** The CO may require the Contractor to replace some or all of the installed production rock nails between a failed proof test rock nail and the adjacent passing proof test rock nail. Alternatively, the CO may require the installation and testing of additional proof test rock nails to verify that adjacent previously installed production rock nails have sufficient load carrying capacity. Contractor modifications may include, but are not limited to; the installation of additional proof test rock nails; increasing the drillhole diameter to provide increased capacity; modifying the installation or grouting methods; reducing the production rock nail spacing from that shown on the Plans and installing more production rock nails at a reduced capacity; or installing longer production rock nails if sufficient right-of-way is available and the pullout capacity behind the failure surface controls the allowable rock nail design capacity. The rock nails may not be lengthened beyond the temporary construction easements or the permanent right-of-way shown on the Plans. Installation and testing of additional proof test rock nails or installation of additional or modified rock nails as a result of proof test rock nail failure(s) will be at no additional cost.

**651.17 Acceptance.** Rock nails and the slope stabilization mesh materials will be evaluated under Subsection 106.03. Construction of the rock nails and slope stabilization system will be evaluated under Subsections 106.02 and 106.04.

### **Measurement**

#### **651.18**

Measure rock fall protection slope stabilization system by the square foot of slope face area. Include all labor, manufacturer technical support, verification and proof testing, materials including rock nails, equipment, tools, royalties, and other incidentals necessary to install a complete system ready to use.

Roadway excavation will be measured and paid for under Section 204.

Rolled erosion control products will be measured under Section 629.

### **Payment**

**651.19** The accepted quantities, measured as provided above, will be paid at the contract price per unit of measurement for the pay items listed below that are shown in the bid schedule. Payment will be full compensation for all work including drilling, materials, material tests, field tests grout, labor, machinery and incidentals necessary to complete the work prescribed in this Section. See Subsection 109.05.

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**Section 714.— GEOTEXTILE AND GEOCOMPOSITE  
DRAIN MATERIAL**

**714.03 Biaxial Geogrid.** (Added Subsection.)

Use geogrid with a regular network of integrally-connected longitudinal and transverse polymer tensile elements with a geometry that permits significant mechanical interlock with the backfill. The geogrid structure shall remain dimensionally stable under construction stresses and have a high resistance to damage during construction, to ultraviolet degradation, and to all forms of chemical and biological degradation encountered in the soil being reinforced.

Identify, store, and handle geogrids according to ASTM D 4873. Limit geogrid exposure to ultraviolet radiation to less than 10 days.

**(a) Physical Requirements.** Provide a biaxial geogrid conforming to Table 714-7.

**Table 714-7  
Physical Requirements for Biaxial Geogrids**

<b>Property</b>	<b>Test Method</b>	<b>Units</b>	<b>Specification</b>
<b>Tensile Strength at 2% Strain</b>	ASTM D 4595	kN/m	6.0
<b>Junction Efficiency</b>	GRI-GG2	%	90
<b>Minimum Aperture Size</b>	Calipered	mm	18.0
<b>Maximum Aperture Size</b>	Calipered	mm	50.0

All strength values in this table are minimum average roll values in the weakest principle direction. Determine minimum average roll values according to ASTM D 4759.

**(b) Evaluation procedures.** Evaluate geogrid according to Subsection 714.01(b).

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