BIA 33 SOUTH SECTION - PROTECT GRANT COMPLETE PROJECT RECONSTRUCTION COST
ENGINEER'S PROBABLE CONSTRUCTION COST (13.7 MILES)
GRADE AND DRAIN CONSTRUCTION

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
004E0040	MAINTENANCE OF TRAFFIC	1	LS	$ 150,000.00	$ 150,000.00
009E0010	MOBILIZATION	1	LS	$ 1,600,000.00	$ 1,600,000.00
009E3200	CONSTRUCTION STAKING	1	LS	$ 350,000.00	$ 350,000.00
100E0100	CLEARING	1	LS	$ 50,000.00	$ 50,000.00
110E0130	REMOVE TRAFFIC SIGN	5	EACH	$ 17.90	$ 89.50
110E0135	REMOVE DELINEATOR	5	EACH	$ 17.40	$ 87.00
110E0500	REMOVE PIPE CULVERT	200	FT	$ 21.10	$ 4,220.00
110E0550	REMOVE CATTLE GUARD	2	EACH	$ 3,000.00	$ 6,000.00
110E0600	REMOVE FENCE	1,000	FT	$ 0.60	$ 600.00
110E7040	REMOVE GATE FOR RESET	1	EACH	$ 375.00	$ 375.00
120E0010	UNCLASSIFIED EXCAVATION	1,214,680	CUYD	$ 3.50	$ 4,251,381.00
120E1000	MUCK EXCAVATION	2,000	CUYD	$ 15.00	$ 30,000.00
120E6400	WATER	110,000	MGAL	$ 22.20	$ 2,442,000.00
230E0010	PLACING TOPSOIL	225,000	CUYD	$ 2.50	$ 562,500.00
260E1010	BASE COURSE	14000	TON	$ 21.50	$ 301,000.00
260E1210	BASE COURSE FOR CULVERT BEDDING	1,000	TON	$ 21.50	$ 21,500.00
421E0100	PIPE CULVERT UNDERCUT	1,000	CUYD	$ 25.00	$ 25,000.00
421E0200	BOX CULVERT UNDERCUT	1,000	CUYD	$ 65.00	$ 65,000.00
450E0000	SMALL AND MEDIUM RCP CULVERTS	1	LS	$ 400,000.00	$ 400,000.00
560E0142	10'X10'PRECAST CONCRETE BOX CULVERT, FURNISH	1,320	FT	$ 1,000.00	$ 1,320,000.00
560E0143	10'X10'PRECAST CONCRETE BOX CULVERT, INSTALL	1,320	FT	$ 200.00	$ 264,000.00
560E1142	10'X10'PRECAST CONCRETE BOX CULVERT END SECTION, FURNISH	12	EACH	$ 14,000.00	$ 168,000.00
560E1143	10'X10'PRECAST CONCRETE BOX CULVERT END SECTION, INSTALL	12	EACH	$ 2,000.00	$ 24,000.00
560E2178	2-12'X12'PRECAST CONCRETE BOX CULVERT, FURNISH	880	FT	$ 1,400.00	$ 1,232,000.00
560E2179	2-12'X12'PRECAST CONCRETE BOX CULVERT, INSTALL	880	FT	$ 300.00	$ 264,000.00
560E3178	2-12'X12'PRECAST CONCRETE BOX CULVERT END SECTION, FURNISH	8	EACH	$ 25,000.00	$ 200,000.00
560E3179	2-12'X12'PRECAST CONCRETE BOX CULVERT END SECTION, INSTALL	8	EACH	$ 4,000.00	$ 32,000.00
610E0124	24' CATTLE GUARD WITH WINGS	3	EACH	$ 27,000.00	$ 81,000.00
610E0130	30' CATTLE GUARD WITH WINGS	3	EACH	$ 30,000.00	$ 90,000.00
620E0020	TYPE 2 RIGHT-OF-WAY FENCE	175,000	FT	$ 2.30	$ 402,500.00
620E0510	TYPE 1 TEMPORARY FENCE	5,000	FT	$ 1.10	$ 5,500.00
620E1020	2 POST PANEL	215	EACH	$ 160.00	$ 34,400.00
620E1030	3 POST PANEL	60	EACH	$ 190.00	$ 11,400.00
620E2016	16' TUBULAR GATE	2	EACH	$ 600.00	$ 1,200.00
620E2100	RESET GATE	1	EACH	$ 300.00	$ 300.00
632E1320	2.0" X 2.0" PERFORATED TUBE POST	3,300	FT	$ 26.50	$ 87,450.00
632E1650	NO PASSING ZONE REFERENCE POST	25	EACH	$ 60.00	$ 1,500.00
632E1700	MILEPOST - NON-INTERSTATE MILEAGE REFERENCE MARKER	14	EACH	$ 75.00	$ 1,050.00
632E2022	4" x 4" WHITE DELINEATOR BACK TO BACK WITH 1.12 LB/FT POST	540	EACH	$ 21.80	$ 11,772.00
632E2207	4" TUBULAR WHITE DELINEATOR REFLECTOR	10	EACH	$ 19.70	$ 197.00
632E2510	TYPE 2 OBJECT MARKER BACK TO BACK	50	EACH	$ 33.00	$ 1,650.00
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	2,000	SQFT	$ 23.00	$ 46,000.00
632E3520	REMOVE, SALVAGE, RELOCATE, AND RESET TRAFFIC SIGN	2	EACH	$ 94.00	$ 188.00
634E0010	FLAGGING	4,000	HOUR	$ 35.21	$ 140,848.00
634E0020	PILOT CAR	2,000	HOUR	$ 45.00	$ 90,000.00
634E0110	TRAFFIC CONTROL SIGNS	800	SQFT	$ 4.70	$ 3,760.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	$ 15,000.00	$ 15,000.00
634E0260	TYPE 3 BARRICADE, 6' SINGLE SIDED	18	EACH	$ 130.00	$ 2,340.00
634E0630	TEMPORARY PAVEMENT MARKING	14	MILE	$ 1,000.00	$ 14,000.00
700E0310	CLASS C RIPRAP	130	TON	$ 105.00	$ 13,650.00
720E1015	BANK AND CHANNEL PROTECTION GABION	1,000	CUYD	$ 310.00	$ 310,000.00
730E0200	TYPE A PERMANENT SEED MIXTURE	7,500	LB	$ 25.00	$ 187,500.00

BIA 33 SOUTH SECTION - PROTECT GRANT COMPLETE PROJECT RECONSTRUCTION COST ENGINEER'S PROBABLE CONSTRUCTION COST (13.7 MILES)					
GRADE AND DRAIN CONSTRUCTION (CONTINUED)					
ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
730E0251	SPECIAL PERMANENT SEED MIXTURE 1 (WETLAND)	200	LB	$ 260.00	$ 52,000.00
731E0200	FERTILIZING	500	TON	$ 1,000.00	$ 500,000.00
732E0100	MULCHING	1,000	TON	$ 252.76	$ 252,762.50
734E0103	TYPE 3 EROSION CONTROL BLANKET	1,000	SQYD	$ 2.60	$ 2,600.00
734E0154	12" DIAMETER EROSION CONTROL WATTLE	55,000	FT	$ 5.40	$ 297,000.00
734E0400	ROCK CHECK DAM	540	CUYD	$ 95.00	$ 51,300.00
831E0110	TYPE B DRAINAGE FABRIC	4,300	SQYD	$ 5.00	$ 21,500.00
831E0200	WOVEN SEPARATOR FABRIC	325,000	SQYD	$ 3.00	$ 975,000.00
831E1010	BIAXIAL GEOGRID REINFORCEMENT FOR CULVERTS	5,000	SQYD	$ 4.00	$ 20,000.00
831E1020	TRIAXIAL GEOGRID REINFORCEMENT FOR ROAD STRUCTURE	325,000	SQYD	$ 4.00	$ 1,300,000.00
900E0010	REFURBISH SINGLE MAILBOX	8	EACH	$ 335.00	$ 2,680.00
900E1080	ORANGE PLASTIC SAFETY FENCE	500	FT	$ 6.40	$ 3,200.00
900E1350	TEMPORARY SURFACING	35,000	TON	$ 8.00	$ 280,000.00
900E9999	CONTRACTOR TESTING	1	LS	$ 125,000.00	$ 125,000.00
				POWER POLES RELOCATION =	$ 50,000.00
				RURAL WATER ADJUSTMENTS =	$ 150,000.00
				TELECOMMUNICATIONS RELOCATION =	$ 150,000.00
				ESTIMATED SUBTOTAL GRADE AND DRAIN CONSTRUCTION =	$ 19,550,000.00
				CONSTRUCTION OBSERVATION 3% =	$ 650,000.00
				TOTAL ESTIMATED GRADE AND DRAIN CONSTRUCTION COST =	$ 20,200,000.00
PAVING CONSTRUCTION					
009E0010	MOBILIZATION	1	LS	$ 720,000.00	$ 720,000.00
634E0010	FLAGGING	250	HOUR	$ 35.00	$ 8,750.00
634E0020	PILOT CAR	125	HOUR	$ 45.00	$ 5,625.00
320E1200	ASPHALT CONCRETE COMPOSITE	65,000	TON	$ 109.00	$ 7,085,000.00
320E7012	GRIND 12" RUMBLE STRIP IN ASPHALT CONCRETE	27.4	MILE	$ 1,200.00	$ 32,880.00
633E1300	PAVEMENT MARKING PAINT, WHITE	625	GAL	$ 37.00	$ 23,125.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	110	GAL	$ 37.00	$ 4,070.00
900E9999	CONTRACTOR TESTING	1	LS	$ 30,000.00	$ 30,000.00
				ESTIMATED SUBTOTAL PAVING CONSTRUCTION =	$ 7,909,450.00
				CONSTRUCTION OBSERVATION 3% =	$ 90,550.00
				TOTAL ESTIMATED PAVING CONSTRUCTION COST =	$ 8,000,000.00
				TOTAL ESTIMATED CONSTRUCTION COST =	$ 28,200,000.00
				DESIGN ENGINEERING 4.6% =	$ 1,300,000.00
				ROAD RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENTS =	$ 500,000.00
				TOTAL BIA 33 SOUTH SECTION ESTIMATED PROJECT COST =	**$ 30,000,000.00**

QUANTITIES AND COSTS ARE BASED ON DESIGN QUANTITIES AND ACTUAL BID COSTS FOR SIMILAR RECENT PROJECT NEAR THIS PROJECT