BIA ROUTE 1 - KILGORE ROAD TO US HIGHWAY 20 IMPROVEMENT PROJECT
BIA RTE 1 (10.3 MILES), KILGORE RD (6.2 MILES), & WARRIOR RD (0.5 MILES)
ENGINEER'S PROBABLE CONSTRUCTION COST

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	$ 4,000,000.00	$ 4,000,000.00
009E3200	CONSTRUCTION STAKING	1	LS	$ 250,000.00	$ 250,000.00
100E0100	CLEARING	1	LS	$ 150,000.00	$ 150,000.00
110E0130	REMOVE TRAFFIC SIGN	70	EACH	$ 17.90	$ 1,253.00
110E0135	REMOVE DELINEATOR	650	EACH	$ 17.40	$ 11,310.00
110E0500	REMOVE PIPE CULVERT	3,300	FT	$ 21.10	$ 69,630.00
110E0550	REMOVE CATTLE GUARD	10	EACH	$ 3,000.00	$ 30,000.00
110E0600	REMOVE FENCE	180,000	FT	$ 0.60	$ 108,000.00
110E7040	REMOVE GATE FOR RESET	10	EACH	$ 375.00	$ 3,750.00
120E0010	UNCLASSIFIED EXCAVATION	2,100,000	CUYD	$ 4.50	$ 9,450,200.00
120E1000	MUCK EXCAVATION	5,000	CUYD	$ 15.00	$ 75,000.00
120E6400	WATER	35,000	MGAL	$ 22.20	$ 777,000.00
230E0010	PLACING TOPSOIL	165,000	CUYD	$ 2.50	$ 412,500.00
260E1010	BASE COURSE	130000	TON	$ 21.50	$ 2,795,000.00
260E1210	BASE COURSE FOR CULVERT BEDDING	10,000	TON	$ 21.50	$ 215,000.00
260E3050	SURFACING, SALVAGED ASPHALT AND GRANULAR BASE MIX	125,000	TON	$ 10.00	$ 1,250,000.00
270E0040	SALVAGE AND STOCKPILE ASPHALT MIX AND GRANULAR BASE MATERIAL	625,000	TON	$ 8.00	$ 5,000,000.00
320E1200	ASPHALT CONCRETE COMPOSITE	74,000	TON	$ 109.00	$ 8,066,000.00
320E7012	GRIND 12" RUMBLE STRIP IN ASPHALT CONCRETE	31.8	MILE	$ 1,200.00	$ 38,160.00
332E0010	COLD MILLING ASPHALT CONCRETE	240,000	SQYD	$ 2.00	$ 480,000.00
421E0100	PIPE CULVERT UNDERCUT	6,000	CUYD	$ 25.00	$ 150,000.00
421E0200	BOX CULVERT UNDERCUT	5,000	CUYD	$ 65.00	$ 325,000.00
450E0000	SMALL AND MEDIUM RCP CULVERTS	1	LS	$ 700,000.00	$ 700,000.00
560E0142	10'X10'PRECAST CONCRETE BOX CULVERT, FURNISH	150	FT	$ 1,000.00	$ 150,000.00
560E0143	10'X10'PRECAST CONCRETE BOX CULVERT, INSTALL	150	FT	$ 200.00	$ 30,000.00
560E1142	10'X10'PRECAST CONCRETE BOX CULVERT END SECTION, FURNISH	2	EACH	$ 14,000.00	$ 28,000.00
560E1143	10'X10'PRECAST CONCRETE BOX CULVERT END SECTION, INSTALL	2	EACH	$ 2,000.00	$ 4,000.00
560E2178	2-14'X12'PRECAST CONCRETE BOX CULVERT, FURNISH	150	FT	$ 1,400.00	$ 210,000.00
560E2179	2-14'X12'PRECAST CONCRETE BOX CULVERT, INSTALL	150	FT	$ 300.00	$ 45,000.00
560E3178	2-14'X12'PRECAST CONCRETE BOX CULVERT END SECTION, FURNISH	2	EACH	$ 25,000.00	$ 50,000.00
560E3179	2-14'X12'PRECAST CONCRETE BOX CULVERT END SECTION, INSTALL	2	EACH	$ 4,000.00	$ 8,000.00
610E0124	24' CATTLE GUARD WITH WINGS	5	EACH	$ 27,000.00	$ 135,000.00
610E0130	30' CATTLE GUARD WITH WINGS	5	EACH	$ 30,000.00	$ 150,000.00
620E0020	TYPE 2 RIGHT-OF-WAY FENCE	180,000	FT	$ 2.30	$ 414,000.00
620E0510	TYPE 1 TEMPORARY FENCE	180,000	FT	$ 1.10	$ 198,000.00
620E1020	2 POST PANEL	230	EACH	$ 160.00	$ 36,800.00
620E1030	3 POST PANEL	60	EACH	$ 190.00	$ 11,400.00
620E2100	RESET GATE	10	EACH	$ 300.00	$ 3,000.00
632E1320	2.0" X 2.0" PERFORATED TUBE POST	3,500	FT	$ 26.50	$ 92,750.00
632E1650	NO PASSING ZONE REFERENCE POST	20	EACH	$ 60.00	$ 1,200.00
632E1700	MILEPOST - NON-INTERSTATE MILEAGE REFERENCE MARKER	16	EACH	$ 75.00	$ 1,200.00
632E2022	4" x 4" WHITE DELINEATOR BACK TO BACK WITH 1.12 LB/FT POST	650	EACH	$ 21.80	$ 14,170.00
632E2207	4" TUBULAR WHITE DELINEATOR REFLECTOR	10	EACH	$ 19.70	$ 197.00
632E2510	TYPE 2 OBJECT MARKER BACK TO BACK	100	EACH	$ 33.00	$ 3,300.00
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	2,600	SQFT	$ 23.00	$ 59,800.00
632E3520	REMOVE, SALVAGE, RELOCATE, AND RESET TRAFFIC SIGN	5	EACH	$ 94.00	$ 470.00
633E0010	COLD APPLIED PLASTIC PAVEMENT MARKING, 4"	1,500	FT	$ 3.50	$ 5,250.00
633E0030	COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	500	FT	$ 22.00	$ 11,000.00
633E0035	COLD APPLIED PLASTIC PAVEMENT MARKING, AREA	24	SQFT	$ 14.00	$ 336.00
633E5000	GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING, 4"	1,500	FT	$ 0.70	$ 1,050.00
633E5015	GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	500	FT	$ 5.00	$ 2,500.00
633E5020	GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING, AREA	24	SQFT	$ 4.00	$ 96.00

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ENGINEER'S PROBABLE CONSTRUCTION COST (CONTINUED)

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
633E1305	PAVEMENT MARKING PAINT, WHITE	800	GAL	$ 37.00	$ 29,600.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	415	GAL	$ 37.00	$ 15,355.00
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	17.0	MILE	$ 1,000.00	$ 17,000.00
635E0240	BREAKAWAY BASE ROADWAY LUMINAIRE POLE WITH ARM, 40' MOUNTING HEIGHT	20	EACH	$ 3,000.00	$ 60,000.00
635E3700	ROADWAY LUMINAIRE, LED WITH PHOTOELECTRIC CELL	2	EACH	$ 1,100.00	$ 2,200.00
635E3800	ROADWAY LUMINAIRE, LED	18	EACH	$ 950.00	$ 17,100.00
635E5020	2' DIAMETER FOOTING	56	FT	$ 270.00	$ 15,120.00
635E5301	TYPE 1 ELECTRICAL JUNCTION BOX	1	EACH	$ 1,000.00	$ 1,000.00
635E5400	ELECTRICAL SERVICE CABINET	1	EACH	$ 4,000.00	$ 4,000.00
635E5990	PEDESTRIAN FLASHING BEACON	2	EACH	$ 18,000.00	$ 36,000.00
635E8120	2" RIGID CONDUIT, SCHEDULE 40	2,235	FT	$ 4.50	$ 10,057.50
635E8220	2" RIGID CONDUIT, SCHEDULE 80	531	FT	$ 7.90	$ 4,194.90
635E9012	1/C #2 AWG COPPER WIRE	1,053	FT	$ 2.00	$ 2,106.00
635E9014	1/C #4 AWG COPPER WIRE	5,817	FT	$ 1.30	$ 7,562.10
635E9016	1/C #6 AWG COPPER WIRE	1,938	FT	$ 1.00	$ 1,938.00
635E9504	4/C #14 AWG COPPER TRAY CABLE, K2	180	FT	$ 1.80	$ 324.00
635E9512	12/C #14 AWG COPPER TRAY CABLE, K2	180	FT	$ 3.00	$ 540.00
635E9724	2/C #14 AWG COPPER POLE AND BRACKET CABLE	530	FT	$ 2.50	$ 1,325.00
635E0771	FIXED BASE PATHWAY LUMINAIRE POLE WITH SIDE MOUNT, 20' MOUNTING HEIGHT	41	EACH	$ 3,100.00	$ 127,100.00
635E3392	POST SIDE MOUNT PATHWAY LUMINAIRE, LED WITH PHOTOELECTRIC CELL	1	EACH	$ 1,500.00	$ 1,500.00
635E3393	POST SIDE MOUNT PATHWAY LUMINAIRE, LED	40	EACH	$ 1,250.00	$ 50,000.00
635E5020	2' DIAMETER FOOTING	164	FT	$ 270.00	$ 44,280.00
635E5400	ELECTRICAL SERVICE CABINET	1	EACH	$ 4,000.00	$ 4,000.00
635E8110	1" RIGID CONDUIT, SCHEDULE 40	5,780	FT	$ 4.50	$ 26,010.00
635E8120	2" RIGID CONDUIT, SCHEDULE 40	17	FT	$ 4.50	$ 76.50
635E8210	1" RIGID CONDUIT, SCHEDULE 80	16	FT	$ 7.00	$ 112.00
635E9012	1/C #2 AWG COPPER WIRE	201	FT	$ 2.00	$ 402.00
635E9016	1/C #6 AWG COPPER WIRE	9,381	FT	$ 1.30	$ 12,195.30
635E9020	1/C #10 AWG COPPER WIRE	9,369	FT	$ 1.00	$ 9,369.00
635E9024	1/C #14 AWG COPPER WIRE	351	FT	$ 1.80	$ 631.80
635E9724	2/C #14 AWG COPPER POLE AND BRACKET CABLE	1,148	FT	$ 2.50	$ 2,870.00
650E0060	TYPE B66 CONCRETE CURB AND GUTTER	12,800	FT	$ 35.00	$ 448,000.00
650E4680	TYPE P8 CONCRETE GUTTER	1,000	FT	$ 50.00	$ 50,000.00
650E6080	8" CONCRETE VALLEY GUTTER	300	SQYD	$ 150.00	$ 45,000.00
651E0040	4" CONCRETE SIDEWALK	35,800	SQFT	$ 8.00	$ 286,400.00
651E0050	5" CONCRETE SIDEWALK	76,500	SQFT	$ 9.50	$ 726,750.00
651E7000	TYPE 1 DETECTABLE WARNINGS	740	SQFT	$ 70.00	$ 51,800.00
670E1010	2' X 3' TYPE B INLET	16	EACH	$ 3,800.00	$ 60,800.00
670E1015	3' X 4' TYPE B INLET	16	EACH	$ 4,000.00	$ 64,000.00
700E0310	CLASS C RIPRAP	150	TON	$ 105.00	$ 15,750.00
720E1015	BANK AND CHANNEL PROTECTION GABION	1,600	CUYD	$ 310.00	$ 496,000.00
730E0200	TYPE A PERMANENT SEED MIXTURE	7,500	LB	$ 25.00	$ 187,500.00
730E0251	SPECIAL PERMANENT SEED MIXTURE 1 (WETLAND)	500	LB	$ 260.00	$ 130,000.00
731E0200	FERTILIZING	400	TON	$ 1,000.00	$ 400,000.00
732E0100	MULCHING	1,000	TON	$ 252.76	$ 252,762.50
734E0103	TYPE 3 EROSION CONTROL BLANKET	1,500	SQYD	$ 2.60	$ 3,900.00
734E0154	12" DIAMETER EROSION CONTROL WATTLE	70,000	FT	$ 5.40	$ 378,000.00

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734E0400	ROCK CHECK DAM	600	CUYD	$ 95.00	$ 57,000.00
831E0110	TYPE B DRAINAGE FABRIC	5,000	SQYD	$ 5.00	$ 25,000.00
831E0200	WOVEN SEPARATOR FABRIC	393,000	SQYD	$ 3.00	$ 1,179,000.00
831E1010	BIAXIAL GEOGRID REINFORCEMENT FOR CULVERTS	7,500	SQYD	$ 4.00	$ 30,000.00
831E1020	TRIAXIAL GEOGRID REINFORCEMENT FOR ROAD STRUCTURE	393,000	SQYD	$ 4.00	$ 1,572,000.00
900E0010	REFURBISH SINGLE MAILBOX	20	EACH	$ 335.00	$ 6,700.00
900E1080	ORANGE PLASTIC SAFETY FENCE	600	FT	$ 6.40	$ 3,840.00
900E1350	TEMPORARY SURFACING	500,000	TON	$ 8.00	$ 4,000,000.00
900E9999	CONTRACTOR TESTING	1	LS	$ 150,000.00	$ 150,000.00
				POWER POLES RELOCATION =	$ 50,000.00
				RURAL WATER ADJUSTMENTS =	$ 50,000.00
				TELECOMMUNICATIONS RELOCATION =	$ 50,000.00
				CONTINGENCY 10% =	$ 4,770,044.16
				ESTIMATED SUBTOTAL CONSTRUCTION =	$ 52,470,488.01
				CONSTRUCTION OBSERVATION 3% =	$ 1,571,136.99
				TECRO 4.5% =	$ 2,354,421.96
				TOTAL ESTIMATED CONSTRUCTION COST =	$ 54,041,625.00
				DESIGN ENGINEERING 4% =	$ 1,862,000.00
				ROAD RIGHT-OF-WAY & TEMPORARY CONSTRUCTION EASEMENTS =	$ 933,000.00
				TOTAL ESTIMATED PROJECT COST =	**$ 56,836,625.00**

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