

**BIA 2 - KYLE TO SD 44 - RAISE GRANT COMPLETE PROJECT RECONSTRUCTION COST
ENGINEER'S PROBABLE CONSTRUCTION COST (20.7 MILES)**

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
004E0040	MAINTENANCE OF TRAFFIC	1	LS	\$ 240,000.00	\$ 240,000.00
009E0010	MOBILIZATION	1	LS	\$ 3,520,000.00	\$ 3,520,000.00
009E3200	CONSTRUCTION STAKING	1	LS	\$ 430,000.00	\$ 430,000.00
100E0100	CLEARING	1	LS	\$ 50,000.00	\$ 50,000.00
110E0130	REMOVE TRAFFIC SIGN	75	EACH	\$ 17.90	\$ 1,342.50
110E0135	REMOVE DELINEATOR	20	EACH	\$ 17.40	\$ 348.00
110E0300	REMOVE CONCRETE CURB AND/OR GUTTER	200	FT	\$ 10.50	\$ 2,100.00
110E0500	REMOVE PIPE CULVERT	3,500	FT	\$ 21.10	\$ 73,850.00
110E0550	REMOVE CATTLE GUARD	8	EACH	\$ 3,000.00	\$ 24,000.00
110E0570	REMOVE FENCE POST	50	EACH	\$ 25.00	\$ 1,250.00
110E0600	REMOVE FENCE	160,000	FT	\$ 0.60	\$ 96,000.00
110E0730	REMOVE BEAM GUARDRAIL	500	FT	\$ 5.50	\$ 2,750.00
110E1010	REMOVE ASPHALT CONCRETE PAVEMENT	2,000	SQYD	\$ 6.20	\$ 12,400.00
110E1100	REMOVE CONCRETE PAVEMENT	1,200	SQYD	\$ 15.60	\$ 18,720.00
110E1130	REMOVE CONCRETE DRIVEWAY PAVEMENT	300	SQYD	\$ 15.60	\$ 4,680.00
110E1140	REMOVE CONCRETE SIDEWALK	200	SQYD	\$ 15.60	\$ 3,120.00
110E7040	REMOVE GATE FOR RESET	2	EACH	\$ 375.00	\$ 750.00
120E0010	UNCLASSIFIED EXCAVATION	1,999,500	CUYD	\$ 4.40	\$ 8,798,000.00
120E1000	MUCK EXCAVATION	2,000	CUYD	\$ 15.00	\$ 30,000.00
120E6400	WATER	30,000	MGAL	\$ 22.20	\$ 666,000.00
230E0010	PLACING TOPSOIL	240,000	CUYD	\$ 2.50	\$ 600,000.00
260E1010	BASE COURSE	152,000	TON	\$ 21.50	\$ 3,268,000.00
260E1210	BASE COURSE FOR CULVERT BEDDING	8,500	TON	\$ 21.50	\$ 182,750.00
260E3010	GRAVEL SURFACING	5,000	TON	\$ 35.50	\$ 177,500.00
260E3050	SURFACING, SALVAGED ASPHALT AND GRANULAR BASE MIX	30,000	TON	\$ 10.00	\$ 300,000.00
270E0040	SALVAGE AND STOCKPILE ASPHALT MIX AND GRANULAR BASE MATERIAL	187,000	TON	\$ 8.00	\$ 1,496,000.00
320E1200	ASPHALT CONCRETE COMPOSITE	106,000	TON	\$ 90.00	\$ 9,540,000.00
332E0010	COLD MILLING ASPHALT CONCRETE	292,000	SQYD	\$ 2.00	\$ 584,000.00
320E7012	GRIND 12" RUMBLE STRIP IN ASPHALT CONCRETE	39.4	MILE	\$ 1,200.00	\$ 47,280.00
380E4050	8" PCC FILLET SECTION	1,500	SQYD	\$ 115.10	\$ 172,650.00
421E0100	PIPE CULVERT UNDERCUT	5,000	CUYD	\$ 25.00	\$ 125,000.00
421E0200	BOX CULVERT UNDERCUT	4,340	CUYD	\$ 65.00	\$ 282,100.00
450E0000	SMALL AND MEDIUM RCP CULVERTS	1	LS	\$ 1,900,000.00	\$ 1,900,000.00
450E8900	BRIDGE REMOVAL AND REPLACE WITH BOX CULVERT *	1	LS	\$ 1,050,000.00	\$ 1,050,000.00
451E0301	PIPE ENCASEMENT	2	EACH	\$ 1,429.60	\$ 2,859.20
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	8	EACH	\$ 27,000.00	\$ 216,000.00
610E0130	30' CATTLE GUARD WITH WINGS	5	EACH	\$ 30,000.00	\$ 150,000.00
620E0020	TYPE 2 RIGHT-OF-WAY FENCE	210,000	FT	\$ 2.30	\$ 483,000.00
620E0510	TYPE 1 TEMPORARY FENCE	150,000	FT	\$ 1.10	\$ 165,000.00
620E1020	2 POST PANEL	700	EACH	\$ 160.00	\$ 112,000.00
620E1030	3 POST PANEL	220	EACH	\$ 190.00	\$ 41,800.00
620E2016	16' TUBULAR GATE	2	EACH	\$ 600.00	\$ 1,200.00
620E2100	RESET GATE	2	EACH	\$ 300.00	\$ 600.00
632E1320	2.0" X 2.0" PERFORATED TUBE POST	3,000	FT	\$ 26.50	\$ 79,500.00
632E1510	6" X 6" WOOD POST	40	FT	\$ 25.00	\$ 1,000.00
632E1650	NO PASSING ZONE REFERENCE POST	60	EACH	\$ 60.00	\$ 3,600.00
632E1700	MILEPOST - NON-INTERSTATE MILEAGE REFERENCE MARKER	35	EACH	\$ 75.00	\$ 2,625.00
632E2022	4" x 4" WHITE DELINEATOR BACK TO BACK WITH 1.12 LB/FT POST	580	EACH	\$ 21.80	\$ 12,644.00
632E2207	4" TUBULAR WHITE DELINEATOR REFLECTOR	25	EACH	\$ 19.70	\$ 492.50

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632E2510	TYPE 2 OBJECT MARKER BACK TO BACK	300	EACH	\$ 33.00	\$ 9,900.00
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	2,300	SQFT	\$ 23.00	\$ 52,900.00
632E3520	REMOVE, SALVAGE, RELOCATE, AND RESET TRAFFIC SIGN	5	EACH	\$ 94.00	\$ 470.00
633E0010	COLD APPLIED PLASTIC PAVEMENT MARKING, 4"	14,000	FT	\$ 4.00	\$ 56,000.00
633E0030	COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	400	FT	\$ 23.00	\$ 9,200.00
633E1300	PAVEMENT MARKING PAINT, WHITE	640	GAL	\$ 16.30	\$ 10,432.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	250	GAL	\$ 16.50	\$ 4,125.00
633E5000	GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING, 4"	14,000	FT	\$ 1.10	\$ 15,400.00
633E5015	GROOVING FOR COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	400	FT	\$ 6.40	\$ 2,560.00
634E0010	FLAGGING	24,000	HOUR	\$ 24.00	\$ 576,000.00
634E0020	PILOT CAR	4,800	HOUR	\$ 40.00	\$ 192,000.00
634E0110	TRAFFIC CONTROL SIGNS	1,500	SQFT	\$ 4.70	\$ 7,050.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	\$ 30,000.00	\$ 30,000.00
634E0260	TYPE 3 BARRICADE, 6' SINGLE SIDED	18	EACH	\$ 127.90	\$ 2,302.20
634E0630	TEMPORARY PAVEMENT MARKING	42	MILE	\$ 1,000.00	\$ 42,000.00
635E0000	ROADWAY AND PATHWAY LIGHTING	1	LS	\$ 450,000.00	\$ 450,000.00
635E0100	PEDESTRIAN FLASHING BEACONS	2	EACH	\$ 15,000.00	\$ 30,000.00
635E0200	REMOTE WEATHER MONITORING STATION **	3	EACH	\$ 150,000.00	\$ 450,000.00
650E0060	TYPE B66 CONCRETE CURB AND GUTTER	11,400	FT	\$ 27.30	\$ 311,220.00
650E4660	TYPE P6 CONCRETE GUTTER	200	FT	\$ 27.70	\$ 5,540.00
650E6080	8" CONCRETE VALLEY GUTTER	300	SQYD	\$ 90.50	\$ 27,150.00
651E0040	4" CONCRETE SIDEWALK	50,000	SQFT	\$ 6.40	\$ 320,000.00
651E7000	TYPE 1 DETECTABLE WARNINGS	800	SQFT	\$ 65.00	\$ 52,000.00
670E1010	2' X 3' TYPE B INLET	7	EACH	\$ 3,000.00	\$ 21,000.00
670E1030	5.5' X 3' TYPE B INLET	5	EACH	\$ 7,400.00	\$ 37,000.00
720E1015	BANK AND CHANNEL PROTECTION GABION	2,000	CUYD	\$ 310.00	\$ 620,000.00
730E0200	TYPE A PERMANENT SEED MIXTURE	9,000	LB	\$ 25.00	\$ 225,000.00
730E0251	SPECIAL PERMANENT SEED MIXTURE 1 (WETLAND)	120	LB	\$ 260.00	\$ 31,200.00
731E0200	FERTILIZING	300	TON	\$ 1,000.00	\$ 300,000.00
732E0100	MULCHING	800	TON	\$ 252.80	\$ 202,240.00
734E0103	TYPE 3 EROSION CONTROL BLANKET	75,000	SQYD	\$ 2.60	\$ 195,000.00
734E0154	12" DIAMETER EROSION CONTROL WATTLE	50,000	FT	\$ 5.40	\$ 270,000.00
734E0400	ROCK CHECK DAM	100	CUYD	\$ 95.00	\$ 9,500.00
734E0845	SEDIMENT CONTROL AT TYPE B INLET WITH FRAME AND GRATE	12	EACH	\$ 165.00	\$ 1,980.00
831E0110	TYPE B DRAINAGE FABRIC	4,000	SQYD	\$ 5.00	\$ 20,000.00
831E0200	WOVEN SEPARATOR FABRIC	500,000	SQYD	\$ 3.00	\$ 1,500,000.00
831E1010	BIAXIAL GEOGRID REINFORCEMENT FOR CULVERTS	6,500	SQYD	\$ 4.00	\$ 26,000.00
831E1020	TRIAxIAL GEOGRID REINFORCEMENT FOR ROAD STRUCTURE	6,500	SQYD	\$ 4.10	\$ 26,650.00
900E0010	REFURBISH SINGLE MAILBOX	25	EACH	\$ 246.70	\$ 6,167.50
900E1080	ORANGE PLASTIC SAFETY FENCE	5,000	FT	\$ 6.40	\$ 32,000.00
900E1350	TEMPORARY SURFACING	50,000	TON	\$ 8.00	\$ 400,000.00
900E9998	TOURISM INTERPRETIVE SIGNS	1	LS	\$ 80,000.00	\$ 80,000.00
900E9999	CONTRACTOR TESTING	1	LS	\$ 450,000.00	\$ 450,000.00
ESTIMATED CONSTRUCTION COST =					\$ 45,587,000.00
CONSTRUCTION OBSERVATION 2% =					\$ 919,900.00
POWER POLES RELOCATION =					\$ 243,100.00
RURAL WATER ADJUSTMENTS =					\$ 200,000.00
TELECOMMUNICATIONS RELOCATION =					\$ 500,000.00
TOTAL ESTIMATED CONSTRUCTION COST =					\$ 47,450,000.00
DESIGN ENGINEERING 4% =					\$ 1,800,000.00
ROAD RIGHT-OF-WAY AND EASEMENTS =					\$ 750,000.00
TOTAL ESTIMATED PROJECT COST =					\$ 50,000,000.00

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

* REFERENCE POTATO CREEK BRIDGE A028 COST ESTIMATE

** COST BASED ON AVERAGE OF USDOT UNIT COST ENTRIES FOR ENVIRONMENTAL SENSING STATION (WEATHER STATION)