

BIA 2 - KYLE TO SD HWY 44 - NO BUILD SCENARIO

SUMMARY OF COST (2022-2060)

DESCRIPTION OF WORK	CONSTRUCTION YEAR	ESTIMATED AMOUNT
CRACK SEALING AND CHIP SEAL	2022	\$ 845,000.00
SAFETY IMPROVEMENTS	2028	\$ 4,400,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2029	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2030	\$ 65,000.00
2 INCH OVERLAY (20 MILES)	2031	\$ 4,900,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2031	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2032	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2033	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2034	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2035	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2036	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2037	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2038	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2039	\$ 65,000.00
CRACK SEALING AND CHIP SEAL	2040	\$ 845,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2040	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2041	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2042	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2043	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2044	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2045	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2046	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2047	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2048	\$ 65,000.00
CRACK SEALING AND CHIP SEAL	2049	\$ 845,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2049	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2050	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2051	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2052	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2053	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2054	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2055	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2056	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2057	\$ 65,000.00
CRACK SEALING AND CHIP SEAL	2058	\$ 845,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2058	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2059	\$ 65,000.00
ANNUAL MAINTENANCE OF SAFETY IMPROVEMENTS	2060	\$ 65,000.00
ESTIMATED TOTAL COST ON NO BUILD SCENARIO =		\$ 14,760,000.00

BIA 2 - 2 INCH OVERLAY - KYLE TO SD HWY 44 - YEAR 2031 - NO BUILD SCENARIO
ENGINEER'S PROBABLE CONSTRUCTION COST (19.7 MILES)

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
004E0040	MAINTENANCE OF TRAFFIC	1	LS	\$ 30,000.00	\$ 30,000.00
009E0010	MOBILIZATION	1	LS	\$ 440,000.00	\$ 440,000.00
009E3200	CONSTRUCTION STAKING	1	LS	\$ 30,000.00	\$ 30,000.00
260E3050	SURFACING, SALVAGED ASPHALT AND GRANULAR BASE MIX	5,000	TON	\$ 8.00	\$ 40,000.00
320E1200	ASPHALT CONCRETE COMPOSITE	38,000	TON	\$ 80.00	\$ 3,040,000.00
320E1212	ASPHALT CONCRETE COMPOSITE FOR APPROACHES	2,500	TON	\$ 115.00	\$ 287,500.00
320E7028	GRIND CENTERLINE RUMBLE STRIPE IN ASPHALT CONCRETE	19.7	MILE	\$ 1,200.00	\$ 23,640.00
332E0010	COLD MILLING ASPHALT CONCRETE	277,400	SQYD	\$ 1.15	\$ 319,010.00
633E1300	PAVEMENT MARKING PAINT, WHITE	650	FT	\$ 16.30	\$ 10,595.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	270	FT	\$ 16.50	\$ 4,455.00
634E0010	FLAGGING	2,300	HOUR	\$ 24.00	\$ 55,200.00
634E0020	PILOT CAR	500	HOUR	\$ 40.00	\$ 20,000.00
634E0110	TRAFFIC CONTROL SIGNS	1,300	SQFT	\$ 4.70	\$ 6,110.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	\$ 45,000.00	\$ 45,000.00
634E0630	TEMPORARY PAVEMENT MARKING	39.4	MILE	\$ 400.00	\$ 15,760.00
730E0200	TYPE A PERMANENT SEED MIXTURE	1,400	LB	\$ 58.40	\$ 81,760.00
731E0200	FERTILIZING	60	TON	\$ 1,261.50	\$ 75,690.00
732E0100	MULCHING	150	TON	\$ 252.80	\$ 37,920.00
734E0151	9" DIAMETER EROSION CONTROL WATTLE	5,500	FT	\$ 5.40	\$ 29,700.00
900E2490	BLADING	350	HOUR	\$ 225.00	\$ 78,750.00
999E9999	CONTRACTOR TESTING	1	LS	\$ 42,000.00	\$ 42,000.00
ESTIMATED CONSTRUCTION COST =					\$ 4,713,090.00
CONSTRUCTION OBSERVATION 2% =					\$ 94,261.80
TOTAL ESTIMATED CONSTRUCTION COST =					\$ 4,807,351.80
DESIGN ENGINEERING 2% =					\$ 92,648.20
TOTAL ESTIMATED PROJECT COST =					\$ 4,900,000.00

PAVEMENT MANAGEMENT - BIA 2 - KYLE TO SD HWY 44 - NO BUILD SCENARIO

CRACK SEALING AND CHIP SEAL - ENGINEER'S PROBABLE CONSTRUCTION COST (20.7 MILES - YEARS 2022, 2040, 2049 AND 2058)

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
004E0040	MAINTENANCE OF TRAFFIC	1	LS	\$ 10,000.00	\$ 10,000.00
009E0010	MOBILIZATION	1	LS	\$ 100,000.00	\$ 100,000.00
009E3200	CONSTRUCTION STAKING	1	LS	\$ 5,000.00	\$ 5,000.00
330E0300	SS-1h OR CSS-1h ASPHALT FOR FOG SEAL	65	TON	\$ 700.00	\$ 45,500.00
330E3000	SAND FOR FOG SEAL	45	TON	\$ 35.00	\$ 1,575.00
350E0010	ASPHALT CONCRETE CRACK SEALING	75,000	LB	\$ 2.50	\$ 187,500.00
360E0020	AE 150S ASPHALT FOR SURFACE TREATMENT	340	TON	\$ 450.00	\$ 153,000.00
360E1030	TYPE 2A COVER AGGREGATE	3,500	TON	\$ 45.00	\$ 157,500.00
633E1300	PAVEMENT MARKING PAINT, WHITE	650	FT	\$ 16.30	\$ 10,595.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	270	FT	\$ 16.50	\$ 4,455.00
634E0010	FLAGGING	1,500	HOUR	\$ 24.00	\$ 36,000.00
634E0020	PILOT CAR	200	HOUR	\$ 40.00	\$ 8,000.00
634E0110	TRAFFIC CONTROL SIGNS	700	SQFT	\$ 4.70	\$ 3,290.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	\$ 45,000.00	\$ 45,000.00
634E0630	TEMPORARY PAVEMENT MARKING	20.7	MILE	\$ 400.00	\$ 8,280.00
999E9999	CONTRACTOR TESTING	1	LS	\$ 5,000.00	\$ 5,000.00
ESTIMATED CONSTRUCTION COST =					\$ 780,695.00
CONSTRUCTION OBSERVATION 4% =					\$ 31,227.80
TOTAL ESTIMATED CONSTRUCTION COST =					\$ 811,922.80
DESIGN ENGINEERING 4% =					\$ 33,077.20
TOTAL ESTIMATED PROJECT COST =					\$ 845,000.00

**BIA 2 SAFETY IMPROVEMENTS - KYLE TO SD HWY 44 - NO BUILD
ENGINEER'S PROBABLE CONSTRUCTION COST (20.7 MILES)**

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
009E0010	MOBILIZATION	1	LS	\$ 400,000.00	\$ 400,000.00
009E3200	CONSTRUCTION STAKING	1	LS	\$ 12,000.00	\$ 12,000.00
100E0100	CLEARING	1	LS	\$ 60,000.00	\$ 60,000.00
110E0130	REMOVE TRAFFIC SIGN	75	EACH	\$ 17.90	\$ 1,342.50
110E0135	REMOVE DELINEATOR	20	EACH	\$ 17.40	\$ 348.00
320E7028	GRIND CENTERLINE RUMBLE STRIPE IN ASPHALT CONCRETE	19.7	MILE	\$ 1,200.00	\$ 23,640.00
629E0110	NCHRP 350 TEST LEVEL 3 HIGH TENSION CABLE GUARDRAIL	108,000	FT	\$ 15.00	\$ 1,620,000.00
629E0290	NCHRP 350 TEST LEVEL 3 HIGH TENSION CABLE GUARDRAIL ANCHOR ASSEMBLY	54	EACH	\$ 3,600.00	\$ 194,400.00
630E1010	STRAIGHT CLASS A W BEAM GUARDRAIL WITH WOOD POSTS	36,000	FT	\$ 26.50	\$ 954,000.00
630E2020	W BEAM TANGENT END TERMINAL	18	EACH	\$ 3,200.00	\$ 57,600.00
632E1320	2.0" X 2.0" PERFORATED TUBE POST	3,000	FT	\$ 11.00	\$ 33,000.00
632E1650	NO PASSING ZONE REFERENCE POST	144	EACH	\$ 113.70	\$ 16,372.80
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
632E2510	TYPE 2 OBJECT MARKER BACK TO BACK	50	EACH	\$ 33.00	\$ 1,650.00
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	5,000	SQFT	\$ 23.00	\$ 115,000.00
633E0030	COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	600	FT	\$ 18.10	\$ 10,860.00
634E0010	FLAGGING	2,000	HOUR	\$ 24.00	\$ 48,000.00
634E0020	PILOT CAR	1,000	HOUR	\$ 40.00	\$ 40,000.00
634E0110	TRAFFIC CONTROL SIGNS	400	SQFT	\$ 4.70	\$ 1,880.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	\$ 5,000.00	\$ 5,000.00
635E0000	PATHWAY AND INTERSECTION LIGHTING	0.9	MILE	\$ 280,000.00	\$ 252,000.00
635E5990	PEDESTRIAN FLASHING BEACON	4	EACH	\$ 17,500.00	\$ 70,000.00
651E0040	4" CONCRETE SIDEWALK	30,000	SQFT	\$ 6.40	\$ 192,000.00
651E7000	TYPE 1 DETECTABLE WARNINGS	400	SQFT	\$ 47.70	\$ 19,080.00
900E0010	REFURBISH SINGLE MAILBOX	25	EACH	\$ 246.70	\$ 6,167.50
ESTIMATED CONSTRUCTION COST =					\$ 4,147,477.30
CONSTRUCTION OBSERVATION 3% =					\$ 124,424.32
TOTAL ESTIMATED CONSTRUCTION COST =					\$ 4,271,901.62
DESIGN ENGINEERING 3% =					\$ 128,098.38
TOTAL ESTIMATED PROJECT COST =					\$ 4,400,000.00

**ANNUAL MAINTENANCE - BIA 2 SAFETY IMPROVEMENTS - KYLE TO SD HWY 44 - NO BUILD
ENGINEER'S PROBABLE CONSTRUCTION COST (20.7 MILES)**

ITEM NUMBER	ITEM	QUANTITY	UNIT	ESTIMATED BID PRICE	TOTAL COSTS
009E0010	MOBILIZATION	1	LS	\$ 9,455.50	\$ 9,455.50
629E0210	RESET HIGH TENSION 3 CABLE GUARDRAIL	1,000	FT	\$ 7.00	\$ 7,000.00
629E0225	RESET HIGH TENSION 3 CABLE GUARDRAIL TERMINAL POST	5	EACH	\$ 150.00	\$ 750.00
629E0295	RESET HIGH TENSION CABLE GUARDRAIL ANCHOR ASSEMBLY	2	EACH	\$ 1,000.00	\$ 2,000.00
630E5160	RESET W BEAM GUARDRAIL	200	FT	\$ 30.00	\$ 6,000.00
630E5208	RESET W BEAM GUARDRAIL TANGENT END TERMINAL	2	EACH	\$ 800.00	\$ 1,600.00
630E5208	RESET BEAM GUARDRAIL POST AND BLOCK	10	EACH	\$ 55.00	\$ 550.00
632E5550	2.0" X 2.0" PERFORATED TUBE POST	150	FT	\$ 11.00	\$ 1,650.00
632E2022	4" x 4" WHITE DELINEATOR BACK TO BACK WITH 1.12 LB/FT POST	20	EACH	\$ 21.80	\$ 436.00
632E2207	4" TUBULAR WHITE DELINEATOR REFLECTOR	5	EACH	\$ 19.70	\$ 98.50
632E2510	TYPE 2 OBJECT MARKER BACK TO BACK	2	EACH	\$ 33.00	\$ 66.00
632E3203	FLAT ALUMINUM SIGN, NONREMOVABLE COPY HIGH INTENSITY	50	SQFT	\$ 23.00	\$ 1,150.00
633E0030	COLD APPLIED PLASTIC PAVEMENT MARKING, 24"	300	FT	\$ 18.10	\$ 5,430.00
633E1300	PAVEMENT MARKING PAINT, WHITE	680	GAL	\$ 16.30	\$ 11,084.00
633E1305	PAVEMENT MARKING PAINT, YELLOW	300	GAL	\$ 16.50	\$ 4,950.00
634E0010	FLAGGING	100	HOUR	\$ 24.00	\$ 2,400.00
634E0110	TRAFFIC CONTROL SIGNS	400	SQFT	\$ 4.70	\$ 1,880.00
634E0120	TRAFFIC CONTROL, MISCELLANEOUS	1	LS	\$ 6,000.00	\$ 6,000.00
635E0000	PATHWAY AND INTERSECTION LIGHTING	1	LS	\$ 2,000.00	\$ 2,000.00
635E5990	PEDESTRIAN FLASHING BEACON	1	LS	\$ 500.00	\$ 500.00
ESTIMATED ANNUAL MAINTENANCE COST =					\$ 65,000.00