

Attachment A - 100% Cost Estimate



TRACS No : SS718 03C
 CPSID : VK1J
 Proj Manager : Tricia Brown



Project Location : Tonto Basin, AZ
 Project Description : Construct Bridge and Roadway
 Bid Advertisement Date : June 2017

TONGO CREEK BRIDGE

ITEM No.	ITEM DESCRIPTION	UNIT	Stage V (100%)		
			DATE: 05/20/15		
			QUANTITY	UNIT PRICE	AMOUNT
2010011	CLEARING AND GRUBBING	ACRE	10	\$3,000.00	\$30,000.00
2020019	REMOVAL OF EMBANKMENT CURB	L.FT.	387	\$4.00	\$1,548.00
2020036	REMOVAL OF ASPHALTIC CONCRETE PAVEMENT	SQ.YD.	6,942	\$4.00	\$27,768.00
2020037	REMOVE AND SALVAGE CATTLE GUARDS	EACH	2	\$1,500.00	\$3,000.00
2020041	REMOVAL OF PIPE	L.FT.	21	\$20.00	\$420.00
2020048	REMOVAL OF STRUCTURE (DOWN DRAIN)	EACH	1	\$500.00	\$500.00
2020053	REMOVE (HEADWALL)	EACH	1	\$400.00	\$400.00
2020072	REMOVE AND SALVAGE GUARD RAIL	L.FT.	1,850	\$3.50	\$6,475.00
2020076	REMOVE AND SALVAGE BREAKAWAY CABLE TERMINAL	EACH	1	\$300.00	\$300.00
2020101	REMOVE FENCE	L.FT.	289	\$3.00	\$867.00
2020102	REMOVE AND SALVAGE FENCE	L.FT.	413	\$6.00	\$2,478.00
2020153	REMOVE (SIGNS, STRUCTURES, FOUNDATIONS, AND POSTS)	L.SUM	1	\$3,500.00	\$3,500.00
2020168	REMOVE (CONCRETE SLAB)	SQ.FT.	2,680	\$2.50	\$6,700.00
2020201	SAW CUTTING	L.FT.	571	\$2.00	\$1,142.00
2030120	GRADER ROAD	L.FT.	1,460	\$10.00	\$14,600.00
2030301	ROADWAY EXCAVATION	CU.YD.	185,050	\$5.00	\$925,250.00
2030901	BORROW	CU.YD.	28,111	\$8.00	\$224,888.00
2090005	FURNISH WATER	M.GAL.	18,392	\$5.00	\$91,960.00
TOTAL, ITEM 200					\$1,341,796.00
3030022	AGGREGATE BASE, CLASS 2	CU.YD.	2,550	\$50.00	\$127,500.00
4040125	FOG COAT	TON	6	\$600.00	\$3,600.00
4040163	BLOTTER MATERIAL	TON	14	\$50.00	\$700.00
4090003	ASPHALTIC CONCRETE (MISCELLANEOUS STRUCTURAL)	TON	2,320	\$100.00	\$232,000.00
TOTAL, ITEMS 300 & 400					\$363,800.00
5012918	PIPE CULVERT, 18"	L.FT.	228	\$50.00	\$11,400.00
5012924	PIPE CULVERT, 24"	L.FT.	110	\$60.00	\$6,600.00
5014518	FLARED END SECTION, 18" (C-13.20 OR C-13.25) (PIPE CULVERT)	EACH	8	\$300.00	\$2,400.00
5014524	FLARED END SECTION, 24" (C-13.20 OR C-13.25) (PIPE CULVERT)	EACH	2	\$500.00	\$1,000.00
TOTAL, ITEM 500					\$21,400.00
6070054	SIGN POST (PERFORATED) (2 S)	L.FT.	112	\$7.00	\$784.00
6070055	SIGN POST (PERFORATED) (2 1/2 S)	L.FT.	37	\$8.00	\$296.00
6070060	FOUNDATION FOR SIGN POST (CONCRETE)	EACH	13	\$140.00	\$1,820.00
6080005	WARNING, MARKER, OR REGULATORY SIGN PANEL	SQ.FT.	52	\$5.00	\$260.00
6080025	FLAT SHEET ALUMINUM SIGN PANEL	SQ.FT.	11	\$9.00	\$99.00
6080105	RELOCATE SIGNS	L.SUM	1	\$2,000.00	\$2,000.00
6110202	METAL HANDRAIL (DETAIL J)	L.FT.	330	\$125.00	\$41,250.00
6110203	PROTECTIVE RAILING (DETAIL O)	L.FT.	48	\$100.00	\$4,800.00
TOTAL, ITEM 600					\$51,309.00
7015091	SPECIALTY SIGNS	SQ.FT.	32	\$15.00	\$480.00
7016030	BARRICADE (TYPE II, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	168	\$0.30	\$50.40
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	2,972	\$0.90	\$2,674.80
7016032	PORTABLE SIGN STANDS (RIGID)	EACH-DAY	50	\$0.60	\$30.00
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	9	\$1.00	\$9.00
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	6,863	\$0.30	\$2,058.90
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	168	\$0.30	\$50.40
7016039	EMBEDDED SIGN POST	EACH-DAY	7,137	\$0.15	\$1,070.55
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY	1	\$250.00	\$250.00
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	1,485	\$0.75	\$1,113.75
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	7,192	\$0.80	\$5,753.60
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	1,098	\$40.00	\$43,920.00
7016075	FLAGGING SERVICES (CIVILIAN)	HOURLY	140	\$45.00	\$6,300.00

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TONTO CREEK BRIDGE

ITEM No.	ITEM DESCRIPTION	UNIT	Stage V (100%)		
			DATE:	05/20/15	
			QUANTITY	UNIT PRICE	AMOUNT
	TOTAL, ITEM 701				\$63,761.40



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7030084	OBJECT MARKER (M-23) (TYPE 1 OR 4)	EACH	2	\$250.00	\$500.00
7040070	PAVEMENT MARKING (WHITE THERMOPLASTIC) (0.090")	L.FT.	15,975	\$0.35	\$5,591.25
7040071	PAVEMENT MARKING (YELLOW THERMOPLASTIC) (0.090")	L.FT.	15,375	\$0.35	\$5,381.25
7040072	PAVEMENT MARKING (TRANSVERSE) (THERMOPLASTIC) (ALKYD) (0.090")	L.FT.	225	\$1.25	\$281.25
7080001	PERMANENT PAVEMENT MARKING (PAINTED) (WHITE)	L.FT.	10,700	\$0.30	\$3,210.00
7080011	PERMANENT PAVEMENT MARKING (PAINTED) (YELLOW)	L.FT.	10,250	\$0.30	\$3,075.00
TOTAL, ITEM 703 - 709					\$18,038.75
8030139	BOULDERS (4'-6' DIAMETER)	L.SUM	1	\$15,000.00	\$15,000.00
8050003	SEEDING (CLASS II)	ACRE	25	\$4,000.00	\$100,000.00
8070001	LANDSCAPING ESTABLISHMENT	L.SUM	1	\$40,000.00	\$40,000.00
8080202	RELOCATE (FOREST SERVICE WATERLINE)	L.SUM	1	\$5,000.00	\$5,000.00
8101012	EROSION CONTROL (SILT FENCE)	L.FT.	6,736	\$4.00	\$26,944.00
8101014	EROSION CONTROL (WATTLES) (20")	L.FT.	9,714	\$6.00	\$58,284.00
8101016	EROSION CONTROL (ROCK MULCH)	CU.YD.	55	\$80.00	\$4,400.00
8101017	EROSION CONTROL (GRAVEL BAG)	EACH	4	\$6.00	\$24.00
8101018	EROSION CONTROL (STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD)	SQ.YD.	350	\$15.00	\$5,250.00
8101021	EROSION CONTROL (WATTLES) (9")	L.FT.	19,988	\$2.50	\$49,970.00
8101035	EROSION CONTROL (SEDIMENT LOGS) (20")	L.FT.	1,380	\$6.00	\$8,280.00
TOTAL, ITEM 800					\$313,152.00
9010001	MOBILIZATION	L.SUM	1	\$1,250,000.00	\$1,250,000.00
9030004	WOVEN WIRE FENCE, TYPE 4	L.FT.	1,364	\$8.00	\$10,912.00
9030011	BARBED WIRE FENCE, TYPE 1	L.FT.	496	\$4.00	\$1,984.00
9050001	GUARD RAIL, W-BEAM, SINGLE FACE	L.FT.	1,513	\$20.00	\$30,250.00
9050002	GUARD RAIL, W-BEAM, SINGLE FACE, SHOP CURVED	L.FT.	88	\$25.00	\$2,187.50
9050028	GUARD RAIL TERMINAL (FLARE TYPE)	EACH	3	\$2,250.00	\$6,750.00
9050202	GUARD RAIL (NESTED STEEL W BEAM)	L.FT.	88	\$20.00	\$1,760.00
9060031	CATTLE GUARD (3 UNIT)	EACH	1	\$15,000.00	\$15,000.00
9060061	CATTLE GUARD (6 UNIT)	EACH	1	\$25,000.00	\$25,000.00
9080084	CONCRETE CURB AND GUTTER (TRANSITION) (MAG 221)	L.FT.	10	\$25.00	\$250.00
9080085	CONCRETE CURB AND GUTTER (TRANSITION) (DETAIL L)	L.FT.	15	\$20.00	\$300.00
9080101	CONCRETE CURB AND GUTTER, TYPE A (MAG DET. 220)	L.FT.	1,719	\$15.00	\$25,785.00
9080103	CONCRETE CURB AND GUTTER, TYPE C (MAG DET. 220)	L.FT.	30	\$30.00	\$900.00
9080108	CONCRETE SINGLE CURB (MAG DET. 222)(TYPE A) (H=6")	L.FT.	517	\$10.00	\$5,170.00
9080296	CONCRETE SIDEWALK RAMP (C-05.30, TYPE C)	EACH	2	\$2,500.00	\$5,000.00
9080297	CONCRETE SIDEWALK RAMP (DETAIL I)	SQ.FT.	329	\$15.00	\$4,935.00
9080512	SCUPPER (MAG DET. 206)	EACH	3	\$2,500.00	\$7,500.00
9130001	RIPRAP (DUMPED)	CU.YD.	445	\$60.00	\$26,700.00
9130005	RIPRAP (GABIONS)	CU.YD.	6,800	\$185.00	\$1,258,000.00
9140142	RECONSTRUCT FENCE (FROM SALVAGE)	L.FT.	18	\$100.00	\$1,800.00
9140178	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)	SQ.FT.	1,920	\$50.00	\$96,000.00
9160001	EMBANKMENT CURB	L.FT.	387	\$10.00	\$3,870.00
9170001	EMBANKMENT SPILLWAY (C-4.10)	L.FT.	7	\$100.00	\$700.00
9170021	INLET (C-4.10) (SINGLE)	EACH	1	\$2,000.00	\$2,000.00
9240129	MISCELLANEOUS WORK (CONTROL OF NOXIOUS PLANTS) (HERBICIDE)	SQ.YD.	5,000	\$1.00	\$5,000.00
9240139	MISCELLANEOUS WORK (CONTROL OF NOXIOUS PLANTS) (MANUAL METHODS)	SQ.YD.	5,000	\$1.00	\$5,000.00
9240140	MISCELLANEOUS WORK (4" AC MISC STR S/W)	TON	302	\$100.00	\$30,200.00
9240170	CONTRACTOR QUALITY CONTROL	L.SUM	1	\$280,000.00	\$280,000.00
9250001	CONSTRUCTION SURVEYING AND LAYOUT	L.SUM	1	\$140,000.00	\$140,000.00
TOTAL, ITEM 900					\$3,242,953.50

ROADWAY TOTAL:

\$5,416,210.65

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2030501	1 STRUCTURAL EXCAVATION	CU.YD.	100	\$22.00	\$2,200.00
2030506	1 STRUCTURE BACKFILL	CU.YD.	240	\$50.00	\$12,000.00
6010003	1 STRUCTURAL CONCRETE (CLASS S) (F'C = 3,500)	CU.YD.	1,053	\$500.00	\$526,500.00
6010005	1 STRUCTURAL CONCRETE (CLASS S) (F'C = 4,500)	CU.YD.	3,115	\$550.00	\$1,713,250.00
6011134	1 TWO TUBE BRIDGE RAIL	L.FT.	2,022	\$190.00	\$384,180.00
6011132	1 COMBINATION PEDESTRIAN-TRAFFIC BRIDGE RAILING	L.FT.	2,022	\$190.00	\$384,180.00
6011348	1 DECK JOINT ASSEMBLY (4X4 COMPRESSION SEAL)	L.FT.	76	\$200.00	\$15,200.00
6011345	1 DECK JOINT ASSEMBLY (STRIP SEAL JOINT)	L.FT.	152	\$175.00	\$26,600.00
6011371	1 APPROACH SLAB (SD 2.01)	SQ.FT.	1,627	\$25.00	\$40,675.00
6014973	1 PRECAST, P/S MEMBER (AASHTO TYPE Super VI Mod.)	L.FT.	9,788	\$220.00	\$2,153,360.00
6015101	1 RESTRAINERS, VERTICAL EARTHQUAKE (FIXED)	EACH	80	\$100.00	\$8,000.00
6015102	1 RESTRAINERS, VERTICAL EARTHQUAKE (EXPANSION)	EACH	80	\$200.00	\$16,000.00
6050002	1 REINFORCING STEEL	LB.	912,778	\$1.00	\$912,778.00
6090072	1 DRILLED SHAFT FOUNDATION (72")	L.FT.	2,345	\$800.00	\$1,876,000.00
9050430	1 THRIE-BEAM GUARD RAIL TRANSITION SYSTEM	EACH	2	\$2,000.00	\$4,000.00
9240050	1 MISCELLANEOUS WORK (UTILITY HANGER INSERTS)	L.SUM	1	\$19,000.00	\$19,000.00
BRIDGE OVER TONTO CREEK			TOTAL:		\$8,093,923.00
9999903	LUMP SUM STRUCTURE (TOTAL OF PRECEDING STRUCTURE ITEMS)	L.SUM	1		\$8,093,923.00

ROADWAY & STRUCTURES TOTAL:

\$13,510,133.65

CONSTRUCTION COST SUBTOTAL		\$13,510,133.65
SUBTOTAL		\$13,510,133.65
404 Permit, Regulatory Coordination and PS&E Package (Consultant)		\$175,000.00
ROADWAY / STRUCTURES SUBTOTAL		\$13,685,133.65
Construction Engineering @	15%	\$2,026,520.05
Construction Contingencies @	5%	\$675,506.68
Consultant Construction Administration @	1%	\$135,101.34
Right of Way	9.126 Acres	\$383,450.00
Utility Relocations	L.SUM 1	\$200,100.00
TOTAL COST		\$17,105,811.72