



U.S. Trade Connection at Eagle Pass Project

Appendix B: Cost Estimate

TIGER FY17 Grant Application

October 2017

Appendix B

Cost Estimate

Preliminary Estimate

Estimate Number: 85823 Version: 5

Standard Rates: Labor Additive = 155% WT Labor Additive = 368.99%

Estimate Good for 6 Months Until 03/21/18

Location: EAGLE PASS SUB, SIMN, 32.35-34.88

Description of Work: Eagle Pass, TX - Eagle Pass Sub MP 32.35 to MP 34.88 - Eagle Pass 2MT

Prepared For: 89011

Buy America: No

COMMENTS	FACILITY	Description	QTY	UOM	UCST	LABOR	MATERIAL	TOTAL
ENGINEERING								
		Engineering	1	LS	400,000.00	400,000	0	400,000
		Contract Engineering	1	LS	600,000.00	0	600,000	600,000
		Flagging	250	MD	1,000.00	250,000	0	250,000
		Payment to City	1	LS	300,000.00	0	300,000	300,000
Sub-Total =						650,000	900,000	1,550,000
REAL ESTATE								
		Acquire Right-of-Way	0.57	AC	15,000.00	0	8,550	8,550
		Permanent Easement	0.25	AC	10,000.00	0	2,500	2,500
		Temporary Construction Easement	0.78	AC	5,000.00	0	3,900	3,900
		R/W Contingency	1	LS	250,000.00	0	250,000	250,000
Sub-Total =						0	264,950	264,950
TRACK CONSTRUCTION - COMPANY								
		PPTO	9	EA	166,254.82	722,960	773,333	1,496,293
		1-LH, 4-RH	1	EA	88,454.25	703	87,751	88,454
		1-LH by Contractor	1	EA	119,445.12	65,733	53,712	119,445
		1-LH	1882	TF	265.20	286,792	212,320	499,112
		By Contractor	7775	TF	116.59	32,765	873,743	906,508
		TRACK	0.98	TM	216,655.39	70,031	142,291	212,322
		30% Tie Renewal on Relay	944	EA	42.26	9,454	30,439	39,893
		TRACK	2616	TF	53.01	66,550	72,128	138,678
		Track Raise	2499	TF	26.92	48,031	19,252	67,283
		COMPJT	25	PR	6,852.23	62,646	108,659	171,306
		By Contractor	5	PR	3,448.16	0	17,241	17,241
		RDXING	16	TF	1,200.41	11,673	7,534	19,206
		By Contractor	320	TF	306.26	0	98,002	98,002
Sub-Total =						1,377,339	2,496,405	3,873,743
TRACK REMOVAL - COMPANY								
		PPTO	1	EA	15,103.09	15,103	0	15,103
		TO	5	EA	4,504.87	22,524	0	22,524
		TO	3	EA	3,810.34	11,431	0	11,431
		TRACK	4098	TF	9.79	40,103	0	40,103
		RDXING	264	TF	20.01	5,283	0	5,283
Sub-Total =						94,444	0	94,444
TRACK CONSTRUCTION - CONTRACT								
		Mobilization - Track	1	LS	55,000.00	0	55,000	55,000
		1-LH	1	EA	24,000.00	0	24,000	24,000
			7775	TF	40.00	0	311,000	311,000
		5 PR Transition Rail	400	TF	40.00	0	16,000	16,000
			58	EA	770.00	0	44,660	44,660
			8	EA	4,000.00	0	32,000	32,000
			320	TF	220.00	0	70,400	70,400
Sub-Total =						0	553,060	553,060
TRACK REMOVAL - CONTRACT								
		Derail - Haves - Remove	2	EA	4,000.00	0	8,000	8,000
		Remove Track	2985	TF	43.00	0	128,355	128,355
Sub-Total =						0	136,355	136,355
SITE WORK - CONTRACT								
		Mobilization	1	LS	250,000.00	0	250,000	250,000
		Clearing and Grubbing	10.88	AC	6,000.00	0	65,280	65,280
		Grading: Excavation	34740	CY	14.00	0	486,360	486,360
		Aggregate - subballast - furnish, place	8309	CY	62.00	0	515,158	515,158
		Seeding - Hydro	4.08	AC	5,000.00	0	20,400	20,400
		Storm Water Pollution Prevention Plan	1	LS	40,000.00	0	40,000	40,000
		Traffic Control - Detour Signs & Coordination	1	LS	50,000.00	0	50,000	50,000
		Marking and Signing	1	LS	25,000.00	0	25,000	25,000
		Remove (2) Structures	2	LS	10,000.00	0	20,000	20,000
		Remove Signal Foundation	2	EA	1,500.00	0	3,000	3,000
		Asphalt: Saw Cut	51	LF	12.00	0	612	612
		Asphalt - remove & dispose	66	SY	45.00	0	2,970	2,970

		Concrete - Remove	52	SY	27.00	0	1,404	1,404
		Remove Fence	1169	LF	2.50	0	2,923	2,923
Remove Gate (Substitute Item)		Remove Cattle Guard	6	EA	400.00	0	2,400	2,400
		Fence	1573	LF	4.00	0	6,292	6,292
20' Double Swing Gate		Fence - Gate	1	EA	1,000.00	0	1,000	1,000
		Fence: 24' Dbl swing HD gate	1	EA	1,500.00	0	1,500	1,500
5th Street		Asphalt: Saw Cut	112	LF	12.00	0	1,344	1,344
5th Street		Asphalt - remove & dispose	703	SY	45.00	0	31,635	31,635
5th Street		Concrete - Remove	113	SY	27.00	0	3,051	3,051
5th Street - Remove Handrail		Guard Rail - Remove	18	LF	20.00	0	360	360
5th Street - Stone Retaining Wall		Remove retaining wall	4	LF	45.00	0	180	180
5th Street - Place Compacted Caliche Base		Aggregate - 8" Base Course	126	CY	125.00	0	15,750	15,750
5th Street		Curb & Gutter - Concrete	263	LF	40.00	0	10,520	10,520
5th Street - 1.5" Thick		Asphalt - 2" furn & place	541	SY	40.00	0	21,640	21,640
5th Street		Asphalt - 8" furn & place	139	SY	123.00	0	17,097	17,097
5th Street		Concrete Sidewalk	131	SY	53.00	0	6,943	6,943
5th Street - Construct Handrail		Guard Rail	18	LF	50.00	0	900	900
2nd Street		Asphalt: Saw Cut	46	LF	12.00	0	552	552
2nd Street		Asphalt - remove & dispose	498	SY	45.00	0	22,410	22,410
2nd Street		Concrete - Remove	46	SY	25.00	0	1,150	1,150
2nd Street		Manhole - Adjust	2	LS	1,600.00	0	3,200	3,200
2nd Street - Compacted Caliche Base		Aggregate - 8" Base Course	105	CY	125.00	0	13,125	13,125
2nd Street		Curb & Gutter - Concrete	179	LF	40.00	0	7,160	7,160
2nd Street - 1.5" Thick		Asphalt - 2" furn & place	459	SY	40.00	0	18,360	18,360
2nd Street - 4" Thick		Concrete Sidewalk	39	SY	53.00	0	2,067	2,067
Church Street		Asphalt: Saw Cut	71	LF	12.00	0	852	852
Church Street		Asphalt - remove & dispose	324	SY	45.00	0	14,580	14,580
Church Street		Manhole - Adjust	1	LS	1,600.00	0	1,600	1,600
Church Street - Compacted Caliche Base		Aggregate - 8" Base Course	65	CY	125.00	0	8,125	8,125
Church Street		Curb & Gutter - Concrete	46	LF	40.00	0	1,840	1,840
Church Street - 1.5" Thick		Asphalt - 2" furn & place	289	SY	40.00	0	11,560	11,560
Ferry Street		Asphalt: Saw Cut	73	LF	12.00	0	876	876
Ferry Street		Asphalt - remove & dispose	346	SY	45.00	0	15,570	15,570
Ferry Street		Concrete - Remove	6	SY	27.00	0	162	162
Ferry Street		Curb & Gutter - Concrete	84	LF	40.00	0	3,360	3,360
Ferry Street - Compacted Caliche Base		Aggregate - 8" Base Course	60	CY	125.00	0	7,500	7,500
Ferry Street - 1.5" Thick		Asphalt - 2" furn & place	269	SY	40.00	0	10,760	10,760
Ferry Street		Asphalt - 8" furn & place	24	SY	123.00	0	2,952	2,952
Quarry Street		Asphalt: Saw Cut	38	LF	12.00	0	456	456
Quarry Street		Asphalt - remove & dispose	569	SY	45.00	0	25,605	25,605
Quarry Street		Curb & Gutter - Concrete	182	LF	40.00	0	7,280	7,280
Quarry Street - Compacted Caliche Base		Aggregate - 8" Base Course	120	CY	125.00	0	15,000	15,000
Quarry Street - 1.5" Thick		Asphalt - 2" furn & place	521	SY	40.00	0	20,840	20,840
Quarry Street		Asphalt - 8" furn & place	115	SY	123.00	0	14,145	14,145
Main Street		Asphalt: Saw Cut	52	LF	12.00	0	624	624
Main Street		Asphalt - remove & dispose	226	SY	45.00	0	10,170	10,170
Main Street		Concrete - Remove	39	SY	27.00	0	1,053	1,053
Main Street		Curb & Gutter - Concrete	66	LF	40.00	0	2,640	2,640
Main Street - Compacted Caliche Base		Aggregate - 8" Base Course	50	CY	125.00	0	6,250	6,250
Main Street - 1.5" Thick		Asphalt - 2" furn & place	218	SY	40.00	0	8,720	8,720
Main Street		Asphalt - 8" furn & place	37	SY	123.00	0	4,551	4,551
Rio Grande Street		Asphalt: Saw Cut	109	LF	12.00	0	1,308	1,308
Rio Grande Street		Asphalt - remove & dispose	747	SY	45.00	0	33,615	33,615
Rio Grande Street - Adjust Water Valve Box to Grade		Manhole - Adjust	1	LS	1,600.00	0	1,600	1,600
Rio Grande Street		Curb & Gutter - Concrete	65	LF	40.00	0	2,600	2,600
Rio Grande Street - Compacted Caliche Base		Aggregate - 8" Base Course	2	CY	125.00	0	250	250
Williams Street		Asphalt: Saw Cut	131	LF	12.00	0	1,572	1,572
Williams Street		Asphalt - remove & dispose	392	SY	45.00	0	17,640	17,640
Williams Street		Concrete - Remove	34	SY	27.00	0	918	918
Williams Street		Curb & Gutter - Concrete	128	LF	40.00	0	5,120	5,120
Williams Street - Compacted Caliche Base		Aggregate - 8" Base Course	4	CY	125.00	0	500	500
Williams Street		Manhole - Adjust	1	LS	1,600.00	0	1,600	1,600
Williams Street Drive		Asphalt: Saw Cut	32	LF	12.00	0	384	384
Williams Street Drive		Asphalt - remove & dispose	1386	SY	45.00	0	62,370	62,370
Williams Street Drive - Compacted Caliche Base		Aggregate - 8" Base Course	313	CY	125.00	0	39,125	39,125
Williams Street Drive - 1.5" Thick		Asphalt - 2" furn & place	1406	SY	40.00	0	56,240	56,240
Channel		Asphalt: Saw Cut	114	LF	12.00	0	1,368	1,368
Channel		Concrete - Remove	1282	SY	27.00	0	34,614	34,614
Channel - Remove Sidewalk		Concrete - Remove	88	SY	27.00	0	2,376	2,376
Channel - Remove Handrail		Guard Rail - Remove	79	LF	20.00	0	1,580	1,580
Channel - Concrete Channel Liner (8" Thick)		Concrete - Furnish and Place	516	SY	150.00	0	77,400	77,400
Channel - Concrete Channel Liner (6" Thick)		Concrete - Furnish and Place	945	SY	135.00	0	127,575	127,575
Trail - Place Concrete Trail (6" Thick)		Concrete - Furnish and Place	312	SY	135.00	0	42,120	42,120
Sub-Total =						0	2,380,689	2,380,689

DRAINAGE - CONTRACT

MP 32.74		Culvert: 24" Plug & Fill	35	LF	35.00	0	1,225	1,225
----------	--	--------------------------	----	----	-------	---	-------	-------

MP 32.81 - 2'x3' WBC		Culvert: 36" Plug & fill	113	LF	60.00	0	6,780	6,780
MP 32.81		Culvert: SSP 60" - furn. & Jack & Bore 60"	68	LF	650.00	0	44,200	44,200
MP 32.81		Riprap, Class 2 (200# - 1000#)	40	TN	86.00	0	3,440	3,440
MP 32.87 - Remove 30" CMP		Culvert: Remove	57	LF	70.00	0	3,990	3,990
MP 32.87 - Remove 12" RCP		Culvert: Remove	42	LF	40.00	0	1,680	1,680
MP 32.87 - Remove 24" RCP		Culvert: Remove	10	LF	60.00	0	600	600
MP 32.87		Drop Inlet - Remove	2	EA	1,000.00	0	2,000	2,000
MP 32.87		RCP 18" - Furnish & Install	43	LF	75.00	0	3,225	3,225
MP 32.87		RCP 24" - Furnish & Install	50	LF	103.00	0	5,150	5,150
MP 32.87		Curb Inlet	2	EA	5,000.00	0	10,000	10,000
MP 32.87		Culvert: Concrete Collar Furn. & Const.	1	EA	8,000.00	0	8,000	8,000
MP 32.94		Culvert: SSP 36" - Furnish and Install	22	LF	475.00	0	10,450	10,450
MP 32.94		Riprap, Class 2 (200# - 1000#)	20	TN	86.00	0	1,720	1,720
MP 33.12		Drop Inlet - Remove	1	EA	1,000.00	0	1,000	1,000
MP 33.12 - Remove Junction Box		Remove - Catch Basin	1	EA	5,000.00	0	5,000	5,000
MP 33.12 - Remove 18" RCP		Culvert: Remove	28	LF	50.00	0	1,400	1,400
MP 33.12 - Remove 30" RCP		Culvert: Remove	32	LF	70.00	0	2,240	2,240
MP 33.12		Construct Manhole	2	EA	4,700.00	0	9,400	9,400
MP 33.12		Inlet Grate	1	EA	500.00	0	500	500
MP 33.12		Curb Inlet	1	EA	5,000.00	0	5,000	5,000
MP 33.12		RCP 18" - Furnish & Install	40	LF	75.00	0	3,000	3,000
MP 33.12		RCP 30" - Furnish & Install	29	LF	120.00	0	3,480	3,480
MP 33.12		RCP 36" - Furnish & Install	5	LF	150.00	0	750	750
MP 33.12		Culvert: Concrete Collar Furn. & Const.	1	EA	8,000.00	0	8,000	8,000
MP 33.25		Drop Inlet - Remove	2	EA	1,000.00	0	2,000	2,000
MP 33.25		Remove Manhole	1	EA	1,500.00	0	1,500	1,500
MP 33.25 - Remove 24" RCP		Culvert: Remove	143	LF	60.00	0	8,580	8,580
MP 33.25		Construct Manhole	1	EA	4,700.00	0	4,700	4,700
MP 33.25		Curb Inlet	2	EA	5,000.00	0	10,000	10,000
MP 33.25		Inlet Grate	1	EA	500.00	0	500	500
MP 33.25		RCP 18" - Furnish & Install	20	LF	75.00	0	1,500	1,500
MP 33.25		RCP 24" - Furnish & Install	164	LF	103.00	0	16,892	16,892
MP 33.25		Culvert: Concrete Collar Furn. & Const.	2	EA	8,000.00	0	16,000	16,000
MP 33.37		Culvert: 48" Plug & Fill	82	LF	95.00	0	7,790	7,790
MP 33.37		Culvert: SSP 48" - furn. & Jack & Bore 48"	82	LF	575.00	0	47,150	47,150
MP 33.37		Riprap, Class 2 (200# - 1000#)	80	TN	86.00	0	6,880	6,880
MP 33.43 - 66" CMP		Culvert: Plug & Fill	88	LF	130.00	0	11,440	11,440
MP 33.43		Culvert: SSP 60" - furn. & Jack & Bore 60"	106	LF	662.00	0	70,172	70,172
MP 33.43		Riprap, Class 2 (200# - 1000#)	150	TN	86.00	0	12,900	12,900
MP 33.69		Culvert SSP 30" - Furnish & Install	180	LF	380.00	0	68,400	68,400
MP 33.69		Riprap, Class I (< 200#)	30	TN	92.00	0	2,760	2,760
MP 33.87		RCP 24" - Furnish & Install	169	LF	103.00	0	17,407	17,407
MP 33.87		Inlet Grate	1	EA	500.00	0	500	500
MP 33.87 - Concrete Work		Drainage	1	LS	1,500.00	0	1,500	1,500
MP 34.02 - Remove 20" CP		Culvert: Remove	74	LF	55.00	0	4,070	4,070
MP 34.02		Drop Inlet - Remove	1	EA	1,000.00	0	1,000	1,000
MP 34.07		Culvert: CMP 30" Furnish & Install	76	LF	145.00	0	11,020	11,020
MP 34.07		Riprap, Class I (< 200#)	60	TN	92.00	0	5,520	5,520
		Riprap, Class I (< 200#)	25	TN	92.00	0	2,300	2,300
		Riprap, Class 2 (200# - 1000#)	145	TN	86.00	0	12,470	12,470
					Sub-Total =	0	487,181	487,181

CONCRETE - CONTRACT

MP 33.88 - Ex. Hwy. 57 Overhead Bridge		Concrete Pier Protection	1	LS	200,000.00	0	200,000	200,000
					Sub-Total =	0	200,000	200,000

UTILITIES - CONTRACT

		Utilities	1	LS	2,250,000.00	0	2,250,000	2,250,000
					Sub-Total =	0	2,250,000	2,250,000

ENVIRONMENTAL - CONTRACT

		Permitting	1	LS	100,000.00	0	100,000	100,000
Potential Contaminated Soil Contingency		Contaminated Soil Treatment	2500	CY	55.00	0	137,500	137,500
					Sub-Total =	0	237,500	237,500

SIGNAL - COMPANY

Per Moritz 9/20/17		Signal: Install	1	LS	4,000,000.00	2,200,000	1,800,000	4,000,000
					Sub-Total =	2,200,000	1,800,000	4,000,000

BRIDGE - COMPANY

MP 33.90		PCB (61-120')	108	LF	7,000.00	0	756,000	756,000
MP 34.03 - Main Track 1		PCB (61-120')	66	LF	7,000.00	0	462,000	462,000
MP 34.03 - Main Track 2		PCB (61-120')	66	LF	7,000.00	0	462,000	462,000
					Sub-Total =	0	1,680,000	1,680,000

BRIDGE - CONTRACT

MP 33.90 - Pedestrian Underpasses (Canopy)		Bridge - Construct	1	LS	75,000.00	0	75,000	75,000
MP 34.03 - Main Track 1		Bridge - Remove	1	LS	30,000.00	0	30,000	30,000
					Sub-Total =	0	105,000	105,000

EQUIPMENT RENTAL

		Equipment Rental	1	LS	150,000.00	0	150,000	150,000
					Sub-Total =	0	150,000	150,000

PROJECT LEVEL COST

	CONTINGENCIES	Contingency	10	%	179,629.22	432,178	1,364,114	1,796,292
					Sub-Total =	432,178	1,364,114	1,796,292

Total Wgt. in Tons = 25,412

Totals = 4,753,961 15,005,253 19,759,214

Grand Total = \$19,759,214

This is a "Shotgun" estimate, intended to provide a ballpark cost to determine whether a proposed project warrants further study. This estimate is not to be used for budget authority. This estimate is based on a conceptual design, without detailed engineering or site investigation. Quantities and costs are estimated using readily available information and experience with similar projects. Site conditions and changes in project scope and design may result in significant cost variance.