

**YBI / Westbound I-80 Ramps Project - Southgate Road Improvements**

Cost Estimate

**04-3A66404**

**Preliminary Bid Item List**

11/7/2016

Item No.	Description	HBP Quantity	BATA Quantity	Total Quantity	Unit	Unit Estimated Item Price	Participating Cost	Non-Participation Eligible Cost	TOTAL COST
1	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	0.85	0.15	1	LS	10,000	8,500	1,500	10,000
2	CONTRACTOR SUPPLIED BIOLOGIST	85	15	100	day	900	76,500	13,500	90,000
3	TEMPORARY FENCE (TYPE ESA)	300	0	300	LF	6	1,800	-	1,800
4	CONSTRUCTION SITE MANAGEMENT	200	50	250	md	900	180,000	45,000	225,000
5	PREPARE STORM WATER POLLUTION PREVENTION PLAN	0.85	0.15	1	LS	4,500	3,825	675	4,500
6	TEMPORARY EROSION CONTROL BLANKET	0	1360	1360	SQFT	0.60	-	816	816
7	TEMPORARY FIBER ROLL	1900	2630	4530	LF	4	7,600	10,520	18,120
8	TEMPORARY SILT FENCE	0	1400	1400	LF	4	-	5,600	5,600
9	TEMPORARY CONSTRUCTION ENTRANCE	2	2	4	EA	3,300	6,600	6,600	13,200
11	TEMPORARY DRAINAGE INLET PROTECTION	19	8	27	EA	200	3,800	1,600	5,400
13	TEMPORARY CULVERT	800	0	800	LF	125	100,000	-	100,000
14	STREET SWEEPING	0.8	0.2	1	LS	50,000	40,000	10,000	50,000
15	TEMPORARY CONCRETE WASHOUT BIN	2	2	4	EA	2,000	4,000	4,000	8,000
16	RAIN EVENT ACTION PLAN	12	3	15	EA	500	6,000	1,500	7,500
17	STORM WATER ANNUAL REPORT	1.7	0.3	2	EA	2,000	3,400	600	4,000
18	STORM WATER SAMPLING AND ANALYSIS DAY	12	3	15	EA	430	5,160	1,290	6,450
19	CONSTRUCTION AREA SIGNS	0.85	0.15	1	LS	10,000	8,500	1,500	10,000
20	TRAFFIC CONTROL SYSTEM	0.85	0.15	1	LS	225,000	191,250	33,750	225,000
22	TEMPORARY TRAFFIC STRIPE (TAPE)	0	4130	4130	LF	3	-	12,390	12,390
26	TEMPORARY LIGHTING	0.85	0.15	1	LS	25,000	21,250	3,750	25,000
27	PORTABLE CHANGEABLE MESSAGE SIGN	2	1	3	EA	4,800	9,600	4,800	14,400
28	TEMPORARY RAILING (TYPE K)	1100	1100	2200	LF	30	33,000	33,000	66,000
29	TEMPORARY ALTERNATIVE CRASH CUSHION (TL-2)	2	2	4	EA	5,000	10,000	10,000	20,000
32	REMOVE CHAIN LINK FENCE	300	0	300	LF	12	3,600	-	3,600
33	REMOVE GATE	1	0	1	EA	420	420	-	420
34A	REMOVE METAL BEAM GUARD RAILING	0	450	450	LF	12	-	5,400	5,400
34B	REMOVE CONCRETE BARRIER (TYPE K)	0	20	20	LF	15	-	300	300
40	REMOVE PAINTED TRAFFIC STRIPE	0	2000	2000	LF	2	-	3,000	3,000
43	REMOVE ROADSIDE SIGN	5	5	10	EA	150	750	750	1,500
44	REMOVE STREET LIGHT	2	6	8	EA	1,500	3,000	9,000	12,000
46	REMOVE CULVERT	1000	0	1000	LF	50	50,000	-	50,000
47	REMOVE WATER PIPE	600	0	600	LF	44	26,400	-	26,400
48	REMOVE GAS LINE	600	0	600	LF	33	19,800	-	19,800
49	REMOVE INLET	3	0	3	EA	1,200	3,600	-	3,600
57	UTILITY RELOCATIONS AND MODIFICATIONS	0.85	0.15	1	LS	200,000	170,000	30,000	200,000
59	REMOVE RETAINING WALL (SOIL NAIL)	1500	0	1500	SQFT	45	67,500	-	67,500
60	REMOVE RETAINING WALL (SOLDIER PILE)	1800	0	1800	SQFT	40	72,000	-	72,000
61	REMOVE RETAINING WALL (CONCRETE)	0	600	600	SQFT	45	-	27,000	27,000
62	REMOVE RETAINING WALL (BLOCK)	200	0	200	SQFT	45	9,000	-	9,000
66	VIBRATION MONITORING	1	0	1	LS	30,000	30,000	-	30,000
67	PHOTO SURVEY OF EXISTING FACILITIES	1	0	1	LS	22,500	22,500	-	22,500
71	COLD PLANE ASPHALT CONCRETE PAVEMENT	1300	1400	2700	SQFT	1.10	1,430	1,540	2,970
74	REMOVE CONCRETE (EXIST PILES AND FOUNDATIONS)	1	0	1	LS	675,000	675,000	-	675,000
77	CLEARING AND GRUBBING	0.8	0.2	1	LS	50,000	40,000	10,000	50,000
79	DEVELOP WATER SUPPLY	0.8	0.2	1	LS	12,000	9,600	2,400	12,000
80	ROADWAY EXCAVATION	38000	3000	41000	CY	45	1,710,000	135,000	1,845,000
81	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	2280	220	2500	CY	275	627,000	60,500	687,500
82	ROADWAY EXCAVATION (TYPE H)	700	0	700	CY	225	157,500	-	157,500
83	LEAD COMPLIANCE PLAN	0.8	0.2	1	LS	3,200	2,560	640	3,200
88	STRUCTURE EXCAVATION (RETAINING WALL)	2130	2190	4320	CY	55	117,150	120,450	237,600
92	STRUCTURE BACKFILL (RETAINING WALL)	1100	1250	2350	CY	55	60,500	68,750	129,250
94	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	140	125	265	CY	110	15,400	13,750	29,150
100	IMPORTED BIOFILTRATION SOIL	140	35	175	CY	100	14,000	3,500	17,500
102	EROSION CONTROL (PER HMP)	25750	31630	57380	SQFT	0.50	12,875	15,815	28,690
103	EROSION CONTROL (NETTING)	0	1360	1360	SQFT	2.00	-	2,720	2,720
104	FIBER ROLL	2050	2630	4680	LF	4.75	9,738	12,493	22,230
105	COMPOST (INCORPORATE)	12000	0	12000	SQFT	0.70	8,400	-	8,400
106	MOVE-IN/MOVE-OUT (EROSION CONTROL)	0.85	0.15	1	EA	900	765	135	900

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108	LANDSCAPING (PLANTING/TREES PER HMP)	0.85	0.15	1	LS	300,000	255,000	45,000	300,000
110	100 MM HIGH DENSITY POLYETHYLENE GAS PIPE	700	0	700	LF	65	45,500	-	45,500
112	IRRIGATION SLEEVE	80	100	180	LF	50	4,000	5,000	9,000
113	IRRIGATION SYSTEM	0.85	0.15	1	LS	100,000	85,000	15,000	100,000
117	INSTALL 300 MM DUCTILE IRON WATER PIPE	700	0	700	LF	199	139,300	-	139,300
118	AIR RELEASE VALVE	2	0	2	EA	2,200	4,400	-	4,400
119	12" (300-MM) GATE VALVE	6	0	6	EA	1,100	6,600	-	6,600
120	CLASS 2 AGGREGATE BASE	3545	1900	5445	CY	46	163,070	87,400	250,470
121	CLASS 4 AGGREGATE SUBBASE	0	500	500	CY	75	-	37,500	37,500
122	HOT MIX ASPHALT (TYPE A)	2590	1820	4410	TON	120	310,800	218,400	529,200
123	PLACE HOT MIX ASPHALT DIKE (TYPE A)	225	460	685	LF	6	1,350	2,760	4,110
127	TACK COAT	4	5	9	TON	1,200	4,800	6,000	10,800
146	MINOR CONCRETE (MINOR STRUCTURE)	55	0	55	CY	1,600	88,000	-	88,000
147	FRACTURED RIB TEXTURE	5600	2400	8000	SQFT	25	140,000	60,000	200,000
171	FURNISH AND INSTALL SIGN OVERLAY (ON I-80)	137	0	137	SQFT	35	4,795	-	4,795
172	FURNISH SINGLE SHEET ALUMINUM SIGN (1.6 MM-UNFRAMED)	86.75	40.25	127	SQFT	25	2,169	1,006	3,175
173	FURNISH SINGLE SHEET ALUMINUM SIGN (2.0 MM-UNFRAMED)	52	24	76	SQFT	22	1,144	528	1,672
176	ROADSIDE SIGN - ONE POST	9	2	11	EA	280	2,520	560	3,080
177	ROADSIDE SIGN - TWO POST	2	2	4	EA	400	800	800	1,600
178	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	5	0	5	EA	195	975	-	975
183	450 MM ALTERNATIVE PIPE CULVERT	1125	600	1725	LF	100	112,500	60,000	172,500
190	DRAINAGE INLET MARKER	19	8	27	EA	75	1,425	600	2,025
198	MINOR CONCRETE (CURB)	10	5	15	CY	1,400	14,000	7,000	21,000
199	MINOR CONCRETE (CURB AND GUTTER)	32	0	32	CY	1,400	44,800	-	44,800
201	MINOR CONCRETE (SIDEWALK)	50	0	50	CY	525	26,250	-	26,250
203	CURB RAMP DETECTABLE WARNING SURFACE	130	0	130	SQFT	40	5,200	-	5,200
204	MISCELLANEOUS IRON AND STEEL	4550	1920	6470	LB	3	13,650	5,760	19,410
224	PEDESTRIAN RAILING (H=42 IN.)	0	300	300	LF	125	-	37,500	37,500
225	BICYCLE RAILING (H=54 IN.)	0	1370	1370	LF	145	-	198,650	198,650
231	CONCRETE BARRIER (TYPE 60)	340	30	370	LF	120	40,800	3,600	44,400
232	CONCRETE BARRIER (TYPE 60C)	170	0	170	LF	190	32,300	-	32,300
233	CONCRETE BARRIER (TYPE 60D)	780	300	1080	LF	140	109,200	42,000	151,200
235	ALTERNATIVE CRASH CUSHION	2	0	2	EA	30,000	60,000	-	60,000
236	THERMOPLASTIC PAVEMENT MARKING	30	490	520	SQFT	7	210	3,430	3,640
238	THERMOPLASTIC TRAFFIC STRIPE (YELLOW)	2250	4260	6510	LF	1	2,250	4,260	6,510
239	THERMOPLASTIC TRAFFIC STRIPE (WHITE)	2406	1335	3741	LF	1	2,406	1,335	3,741
240	PAVEMENT MARKER (RETROREFLECTIVE)	4	12	16	EA	17	68	204	272
241	LIGHTING AND SIGN ILLUMINATION	0.85	0.15	1	LS	50,000	42,500	7,500	50,000
242	LIGHTING (STREET LIGHTS - NO. OF POLES)	13	7	20	EA	17,500	227,500	122,500	350,000
244	LIGHTING (PEDESTRIAN LIGHTS - NO. OF POLES)	0	8	8	EA	12,500	-	100,000	100,000
247	TRAFFIC SIGNAL (SOUTHGATE/HILLCREST INTERSECTION & MACALLA)	2	0	2	LS	250,000	500,000	-	500,000
248	ENGINEER'S OFFICE FACILITIES	0.85	0.15	1	LS	50,000	42,500	7,500	50,000
257	MOBILIZATION	0.85	0.15	1	LS	2,000,000	1,700,000	300,000	2,000,000
258	BAR REINFORCING STEEL (BRIDGE)	69097	0	69097	LB	1.10	76,006	-	76,006
259	STRUCTURAL CONCRETE, BRIDGE	550	0	550	CY	1,500	825,000	-	825,000
260	CONCRETE BARRIER TYPE 732	541	0	541	LF	170	91,970	-	91,970
261	STRUCTURAL SHOTCRETE	650	0	650	CY	1,000	650,000	-	650,000
262	STRUCTURAL CONCRETE, RETAINING WALL	2320	788	3108	CY	800	1,856,000	630,400	2,486,400
263A	DRILL AND BOND DOWEL	1720	0	1720	LF	65	111,800	-	111,800
263B	DRILL AND BOND DOWEL (CHEMICAL ADHESIVE)	4140	0	4140	LF	5	20,700	-	20,700
264	BAR REINFORCING STEEL (RETAINING WALL)	937210	57870	995080	LB	1.30	1,218,373	75,231	1,293,604
265	36" CAST-IN-DRILLED-HOLE CONCRETE PILING	7170	0	7170	LF	390	2,796,300	-	2,796,300
266	ARCHITECTURAL TREATMENT	18320	0	18320	SQFT	35	641,200	-	641,200
267	MINOR CONCRETE (GUTTER)	715	295	1010	LF	45	32,175	13,275	45,450
268	CHAIN LINK RAILING (TYPE CL-4, VINYL CLAD)	1090	295	1385	LF	90	98,100	26,550	124,650
<b>Subtotal</b>						<b>\$17,316,678</b>	<b>\$2,852,783</b>	<b>\$20,169,461</b>	
<b>PUC UTILITIES</b>						<b>300,000</b>		<b>300,000</b>	
<b>5% SUPPLEMENTAL FUNDS</b>						<b>865,834</b>	<b>142,639</b>	<b>1,008,473</b>	

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Item No.	Description	HBP Quantity	BATA Quantity	Total Quantity	Unit	Unit Estimated Item Price	Participating Cost	Non- Participation Eligible Cost	TOTAL COST
						SOUTH BRIDGE HEAD FOUNDATION	1,500,000		1,500,000
							PARTICIPATION ELIGIBLE	NON PARTICIPATION ELIGIBLE	TOTAL
Subtotal CONSTRUCTION							\$19,982,512	\$2,995,422	\$22,977,934