

Quincy Engineering, Inc.

98% ENGINEER'S ESTIMATE 10% CONTINGENCY

Project Name SR-4/Balfour Road Interchange
 Bridge Name Deer Creek UC, EB Loop Onramp Deer Creek UC, Balfour Road UC
 Bridge No. 28-0411R, 28-0412S, 28-0412R

Date 10/13/2014
 Project No. 4130001000
 Q's By Various
 Check Q's By C. Gibson/L. Schrey

Item No.	Item Code	Item Description	Unit	Quantity
1	066237	REMOVE TREES	LS	LUMP SUM
2	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM
3	080050	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM
4	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM
5	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM
6	120119	TRAFFIC CONE	EA	1350
7	120120	TYPE III BARRICADE	EA	240
8	120149	TEMPORARY PAVEMENT MARKING (PAINT)	SQFT	8260
9	120159	TEMPORARY TRAFFIC STRIPE (PAINT)	LF	101200
10	120165	CHANNELIZER (SURFACE MOUNTED)	EA	170
11	120182	PORTABLE DELINEATOR	EA	640
12	120199	TRAFFIC PLASTIC DRUM	EA	30
13	120300	TEMPORARY PAVEMENT MARKER	EA	3288
14	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	43
15	129000	TEMPORARY RAILING (TYPE K)	LF	33000
16	129100	TEMPORARY CRASH CUSHION MODULE	EA	77
17	129101	TEMPORARY CRASH CUSHION (ABSORB 350 TL-2)	EA	23
18	129102	TEMPORARY CRASH CUSHION (ABSORB 350 TL-3)	EA	10
19	129150	TEMPORARY TRAFFIC SCREEN	LF	33000
20	130100	JOB SITE MANAGEMENT	LS	LUMP SUM
21	130300	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM
22	130330	STORM WATER ANNUAL REPORT	EA	1
23	130500	TEMPORARY EROSION CONTROL BLANKET	SQYD	3890
24	130505	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	8
25	130530	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	60320
26	130610	TEMPORARY CHECK DAM	LF	690
27	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	119
28	130640	TEMPORARY FIBER ROLL	LF	30500
29	130680	TEMPORARY SILT FENCE	LF	24400
30	130710	TEMPORARY CONSTRUCTION ENTRANCE	EA	3
31	130730	STREET SWEEPING	LS	LUMP SUM
32	130900	TEMPORARY CONCRETE WASHOUT	EA	8
33	131103	WATER QUALITY SAMPLING AND ANALYSIS DAY	EA	20

Item No.	Item Code	Item Description	Unit	Quantity
34	131104	WATER QUALITY MONITORING REPORT	EA	20
35	131105	WATER QUALITY ANNUAL REPORT	EA	2
36	131200	TEMPORARY CREEK DIVERSION SYSTEM	LS	LUMP SUM
37	131201	TEMPORARY CREEK BED PROTECTION SYSTEM	LS	LUMP SUM
38	141000	TEMPORARY FENCE (TYPE ESA)	LF	750
39	141103	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	LF	2960
40	141104	REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)	SQFT	390
41	141120	TREATED WOOD WASTE	LB	1000
42	149000	DUST CONTROL	LS	LUMP SUM
43	150230	DESTROY WELL	EA	1
44	150242	ABANDON SEWER PIPELINE	LF	430
45	150305	OBLITERATE SURFACING	SQYD	21500
46	150605	REMOVE FENCE	LF	2400
47	150646	REMOVE PEDESTRIAN BARRICADE	EA	4
48	150714	REMOVE THERMOPLASTIC TRAFFIC STRIPE	LF	9410
49	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	3350
50	150722	REMOVE PAVEMENT MARKER	EA	859
51	150742	REMOVE ROADSIDE SIGN	EA	75
52	150747	REMOVE ROADSIDE SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	2
53	150812	REMOVE PIPE (LF)	LF	2360
54	150820	REMOVE INLET	EA	12
55	150821	REMOVE HEADWALL	EA	6
56	150826	REMOVE MANHOLE	EA	5
57	150829	REMOVE ABANDONED VAULT	EA	9
58	150830	REMOVE ABANDONED UTILITY	LF	12700
59	150841	REMOVE SEWER PIPE	LF	430
60	150860	REMOVE BASE AND SURFACING	CY	7640
61	152390	RELOCATE ROADSIDE SIGN	EA	8
62	152423	ADJUST MONUMENT TO GRADE	EA	1
63	152440	ADJUST MANHOLE TO GRADE	EA	1
64	152481	48" SEWER MANHOLE	LF	54
65	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	27300
66	153240	REMOVE CONCRETE (CURB, GUTTER, AND SIDEWALK) (CY)	CY	580
67	155003	CAP INLET	EA	1
68	155231	CULVERT SLURRY-CEMENT BACKFILL	CY	6
69	155232	SAND BACKFILL	CY	20
70	160103	CLEARING AND GRUBBING (ACRE)	ACRE	52
71	190101	ROADWAY EXCAVATION	CY	133000
72	190151	CHANNEL EXCAVATION	CY	3130
73	190185	SHOULDER BACKING	TON	56

Item No.	Item Code	Item Description	Unit	Quantity
74	(F) 192003	STRUCTURE EXCAVATION (BRIDGE)	CY	3158
75	(F) 192037	STRUCTURE EXCAVATION (RETAINING WALL)	CY	1312
76	(F) 193003	STRUCTURE BACKFILL (BRIDGE)	CY	2555
77	(F) 193013	STRUCTURE BACKFILL (RETAINING WALL)	CY	1603
78	(F) 193118	CONCRETE BACKFILL	CY	2
79	194001	DITCH EXCAVATION	CY	1970
80	198010	IMPORTED BORROW (CY)	CY	173000
81	198051	BIOFILTRATION SWALE BERM	EA	11
82	(F) 208603	8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	LF	1580
83	210002	IMPORTED BIOFILTRATION SOIL	CY	4240
84	210270	ROLLED EROSION CONTROL PRODUCT (NETTING)	SQFT	138000
85	210300	HYDROMULCH	SQFT	1170000
86	210350	FIBER ROLLS	LF	65700
87	210430	HYDROSEED	SQFT	1170000
88	210600	COMPOST	SQFT	1170000
89	250401	CLASS 4 AGGREGATE SUBBASE	CY	95900
90	260203	CLASS 2 AGGREGATE BASE (CY)	CY	15100
91	260204	TEMPORARY CLASS 2 AGGREGATE BASE (CY)	CY	250
92	280000	LEAN CONCRETE BASE	CY	9390
93	290201	ASPHALT TREATED PERMEABLE BASE	CY	130
94	390128	TEMPORARY HOT MIX ASPHALT	TON	680
95	390132	HOT MIX ASPHALT (TYPE A)	TON	30700
96	390137	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	8330
97	390138	RUBBERIZED HOT MIX ASPHALT (OPEN GRADED)	TON	2100
98	394053	SHOULDER RUMBLE STRIP (HMA,GROUND-IN INDENTATIONS)	STA	65
99	394060	DATA CORE	LS	LUMP SUM
100	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	4720
101	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	6260
102	394079	TEMPORARY PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	1360
103	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	34
104	397005	TACK COAT	TON	98
105	(F) 477020	MECHANICALLY STABILIZED EMBANKMENT	SQFT	2241
106	480600	TEMPORARY SHORING	LF	870
107	490528	FURNISH STEEL PILING (HP 14 X 89)	LF	15849
108	490529	DRIVE STEEL PILE (HP 14 X 89)	EA	272
109	490746	FURNISH PILING (CLASS 140) (ALTERNATIVE W)	LF	183
110	490747	DRIVE PILE (CLASS 140) (ALTERNATIVE W)	EA	6
111	490781	DRIVE PILE (CLASS 200)	EA	36
112	490782	FURNISH PILING (CLASS 200) (ALTERNATIVE W)	LF	2356
113	498052	60" CAST-IN-DRILLED-HOLE CONCRETE PILE (SIGN FOUNDATION)	LF	70

Item No.	Item Code	Item Description	Unit	Quantity
114		500020 PRESTRESSING PRECAST GIRDER	LS	LUMP SUM
115	(F)	510051 STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	767.3
116	(F)	510053 STRUCTURAL CONCRETE, BRIDGE	CY	2828.8
117	(F)	510060 STRUCTURAL CONCRETE, RETAINING WALL	CY	573
118	(F)	510072 STRUCTURAL CONCRETE, BARRIER SLAB	CY	37
119	(F)	510086 STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	485.1
120	(F)	510092 STRUCTURAL CONCRETE, HEADWALL	CY	140
121	(F)	510502 MINOR CONCRETE (MINOR STRUCTURE)	CY	310
122		510504 MINOR CONCRETE (PIPE ENCASEMENT)	CY	110
123	(F)	511035 ARCHITECTURAL TREATMENT	SQFT	2369
124	(F)	511036 ARCHITECTURAL SURFACE (BARRIER)	SQFT	1747
125		512208 FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (90'-100')	EA	22
126		512211 FURNISH PRECAST PRESTRESSED CONCRETE GIRDER (150'-160')	EA	7
127	(F)	512500 ERECT PRECAST PRESTRESSED CONCRETE GIRDER	EA	29
128		519091 JOINT SEAL (MR 1 1/2")	LF	499
129		519100 JOINT SEAL (MR 2")	LF	212
130	(F)	520102 BAR REINFORCING STEEL (BRIDGE)	LB	857076
131	(F)	520103 BAR REINFORCING STEEL (RETAINING WALL)	LB	85580
132	(F)	560218 FURNISH SIGN STRUCTURE (TRUSS)	LB	74000
133	(F)	560219 INSTALL SIGN STRUCTURE (TRUSS)	LB	74000
134		560225 INSTALL SIGN (BRIDGE MOUNTED)	EA	2
135		560244 FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	SQFT	1040
136		560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	370
137		560249 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	SQFT	490
138		560251 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-FRAMED)	SQFT	310
139		560252 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-FRAMED)	SQFT	28
140		566011 ROADSIDE SIGN - ONE POST	EA	72
141		566012 ROADSIDE SIGN - TWO POST	EA	9
142		568001 INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	4
143		568015 INSTALL SIGN (MAST-ARM HANGER METHOD)	EA	2
144		568016 INSTALL SIGN PANEL ON EXISTING FRAME	SQFT	150
145		650014 18" REINFORCED CONCRETE PIPE	LF	12700
146		650018 24" REINFORCED CONCRETE PIPE	LF	1190
147		650034 48" REINFORCED CONCRETE PIPE	LF	440
148		650058 84" REINFORCED CONCRETE PIPE	LF	280
149		680905 8" PERFORATED PLASTIC PIPE UNDERDRAIN	LF	13800
150	(F)	682022 CLASS 1 PERMEABLE MATERIAL (BLANKET)	CY	2830
151		690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK)	LF	390
152		692307 18" ANCHOR ASSEMBLY	EA	56
153		700617 DRAINAGE INLET MARKER	EA	13

Item No.	Item Code	Item Description	Unit	Quantity
154	703254	48" CORRUGATED STEEL PIPE RISER (.079" THICK)	LF	110
155	705011	18" STEEL FLARED END SECTION	EA	13
156	705204	18" CONCRETE FLARED END SECTION	EA	18
157	705206	24" CONCRETE FLARED END SECTION	EA	2
158	707117	36" PRECAST CONCRETE PIPE INLET	LF	91
159	707242	TYPE I MANHOLE	LF	140
160	707243	TYPE II MANHOLE	LF	53
161	707244	TYPE III MANHOLE	LF	70
162	709522	INLET DEPRESSION	EA	8
163	(F) 721026	ROCK SLOPE PROTECTION (NO. 1, METHOD B) (CY)	CY	570
164	721431	CONCRETE (CONCRETE APRON)	CY	7
165	721810	SLOPE PAVING (CONCRETE)	CY	76
166	721812	SLOPE PAVING (CONCRETE PAVERS)	SQFT	4581
167	729011	ROCK SLOPE PROTECTION FABRIC (CLASS 8)	SQYD	1020
168	730020	MINOR CONCRETE (CURB) (CY)	CY	340
169	731505	TEMPORARY CURB, GUTTER, SIDEWALK, & CURB RAMP	CY	25
170	731521	MINOR CONCRETE (SIDEWALK & RAMP)	CY	210
171	731530	MINOR CONCRETE (TEXTURED PAVING)	CY	280
172	(F) 750001	MISCELLANEOUS IRON AND STEEL	LB	50330
173	760096	GROUNDWATER MONITORING WELL	EA	5
174	760097	REMOVE MONITORING WELL	EA	5
175	781100	18" SEWER PIPE	LF	420
176	781110	CCTV 12" SEWER	LS	LUMP SUM
177	782100	20" POTABLE WATERLINE RELOCATION	LS	LUMP SUM
178	782200	24" NON-POTABLE WATERLINE RELOCATION	LS	LUMP SUM
179	790100	ARV RELOCATION	LS	LUMP SUM
180	790101	REMOVE BLOW OFF	LS	LUMP SUM
181	790200	CONCRETE CAP (TYPE 1)	LF	420
182	790201	CONCRETE CAP (TYPE 2)	LF	180
183	790300	CSTS RELOCATION (NORTH)	LS	LUMP SUM
184	790301	CSTS RELOCATION (SOUTH)	LS	LUMP SUM
185	800400	CHAIN LINK FENCE (TYPE CL-8)	LF	240
186	820107	DELINEATOR (CLASS 1)	EA	199
187	820151	OBJECT MARKER (TYPE L-1)	EA	6
188	832005	MIDWEST GUARDRAIL SYSTEM	LF	3690
189	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	1360
190	833077	PEDESTRIAN BARRICADE	EA	4
191	(F) 839521	CABLE RAILING	LF	20
192	839543	TRANSITION RAILING (TYPE WB-31)	EA	9
193	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	9

Item No.	Item Code	Item Description	Unit	Quantity
194	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	9
195	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	1
196	839603	CRASH CUSHION (ADIEM)	EA	1
197	839701	CONCRETE BARRIER (TYPE 60)	LF	2700
198	(F) 839702	CONCRETE BARRIER (TYPE 60A)	LF	220
199	839706	CONCRETE BARRIER (TYPE 60G)	LF	680
200	839707	CONCRETE BARRIER (TYPE 60GA)	LF	260
201	(F) 839720	CONCRETE BARRIER (TYPE 732)	LF	500
202	(F) 839725	CONCRETE BARRIER (TYPE 736)	LF	320
203	846000	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 18-12)	LF	6720
204	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	51800
205	846003	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 12-3)	LF	220
206	846004	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 17-7)	LF	290
207	846007	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	3720
208	846008	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 8-4)	LF	600
209	846009	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	10600
210	846012	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	5050
211	847000	POST MILE MARKING (PAINT)	EA	14
212	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	2050
213	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	2360
214	860150	SIGNAL AND LIGHTING (TEMPORARY)	LS	LUMP SUM
215	860251	SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM
216	860252	SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM
217	860253	SIGNAL AND LIGHTING (LOCATION 3)	LS	LUMP SUM
218	860300	SIGNAL AND LIGHTING (CITY STREET LOCATION 1)	LS	LUMP SUM
219	860460	LIGHTING AND SIGN ILLUMINATION	LS	LUMP SUM
220	860799	BATTERY BACKUP SYSTEM	LS	LUMP SUM
221	860930	TRAFFIC MONITORING STATION	LS	LUMP SUM
222	8611009	RAMP METERING SYSTEM AND TMS ELEMENTS	LS	LUMP SUM
223	8690019	EMERGENCY VEHICLE PREEMPTION SYSTEM (LOCATIONS 2 AND 3)	LS	LUMP SUM
224				
225				
226				
227				
228				
229	999990	MOBILIZATION	LS	LUMP SUM