

Agency: Commerce, Community and Economic Development**Grants to Municipalities (AS 37.05.315)****Grant Recipient: Whittier****Federal Tax ID: 92-0041440****Project Title:****Project Type: Maintenance and Repairs**

Whittier - Public Works Building (P-12) Roof Repair

State Funding Requested: \$6,600,000**House District: 35 / R**

One-Time Need

Brief Project Description:

The Public Works Building housing the Emergency Operations Center, Public Safety Department, City Council Chambers, and Public Works Department is in danger of collapsing due to record snowfall years and needs replacement due to structural damage and leakage.

Funding Plan:

Total Project Cost:	\$8,600,000
Funding Already Secured:	(\$2,000,000)
FY2014 State Funding Request:	<u>(\$6,600,000)</u>
Project Deficit:	\$0

Funding Details:

Alaska State FY' 13 Capital Budget included \$2.0 million for partial roof replacement prior to knowing full extent of snow damage.

Detailed Project Description and Justification:

The Public Works Building has a flat roof and leaks profusely. It was constructed by the U.S. Government as part of the military presence in Whittier during the 1950's and transferred to the City sometime after the municipal government was established in 1969. The building dimensions are currently 360' X 100'.

The Public Works Building houses a variety of essential public health and safety apparatuses and vital community services, including the following: Department of Public Works Shop, Administrative Offices, Department of Public Utilities Shop and Administrative Offices, Fire and EMS Division Garage and Administrative Offices, City Council Chambers, as well as the Emergency Operations Center (EOC). The City also leases a portion of the building complex to Great Pacific Seafood for fish processing.

In January 2012, record snowfall caused additional damage to the east end of the building (Approx. 20,000 sq. ft.). Emergency repairs were made in February 2012 with funding from Alaska State Emergency Management.

Subsequent to the emergency repairs, a complete condition survey was conducted by the firm USKH. Their estimate for repairs on the roof (allowing for unknown conditions) was between \$5.75-8 million dollars.

The City of Whittier is now respectfully requesting that \$6.6 million go to the east end of the public works building for emergency roof replacement.

Project Timeline:

The roof replacement and reconstruction would begin summer of 2013. The City would be happy to see the appropriation in the FY '13 Supplemental or FY '14 Capital Budget.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

City of Whittier

Grant Recipient Contact Information:

Name: Lester Lunceford
Title: Mayor
Address: 100 Kenai Street
Whittier , Alaska 99693
Phone Number: (907)472-2327
Email: citymanager@whittieralaska.gov

Has this project been through a public review process at the local level and is it a community priority? Yes No

**Public Works (P-12) Building Condition Survey
City of Whittier, Alaska
Whittier, Alaska**

**Construction Cost Estimate
Conceptual Submittal
March 2010**

ESTIMATIONS

**1225 E. International Airport Road, Suite 205
Anchorage, Alaska 99518
907.561.0790**

**Prepared for:
USKH, Inc.
2515 A Street
Anchorage, Alaska 99503
907.276.4245**

Public Works (P-12) Building Condition Survey
 City of Whittier, Alaska
 Prepared for USKH, Inc. by Estimations

Construction Cost Estimate
 Conceptual Submittal
 March 2010

Description	Recommended Phase	Estimated Cost	Cost Plus Contingencies
Roofing			
Replace Roofing	1	\$1,572,734	\$1,904,424
Replace East Roof Decking	1	\$294,895	\$357,089
Contingency For West Deck	1	\$89,955	\$108,927
Roof + Cont			
			\$1,904,424
			\$357,089
			\$108,927
International Building Code			
Add Fire Exit Doors	1	\$46,052	\$55,764
Provide Dust Collection System	1	\$65,552	\$79,377
Provide Boiler Room Enclosure	1	\$51,612	\$62,497
Remove Exposed Insulation Board Over Windows and On Walls	1	\$39,180	\$47,443
Exterior Envelope			
Replace Windows	4	\$599,394	\$725,807
Replace Wooden Overhead Doors	4	\$32,633	\$39,516
Hazardous Materials			
Remove/Dispose of Damaged ACM Pipe Insulation	1	\$26,353	\$31,911
Remove ACM Joint Compound & GWB at Boiler Room	1	\$22,801	\$27,610
Remove and Dispose of Remaining ACM Thermal Insulation	5	\$161,156	\$195,144
Remove/Dispose Lead Impacted Ext Windows	4		
Mechanical			
Remove Abandoned Ventilation Ducting	1	\$21,714	\$26,293
Replace Heating System	5	\$279,132	\$338,001
Electrical			
Replace Lighting	1	\$461,543	\$558,883
Relocate/Upgrade Main Distribution	2	\$121,390	\$146,992
Replace Electrical Panels and Branch Circuitry	3	\$868,628	\$1,051,822
Subtotal:		\$4,754,726	\$5,757,498

Estimating Contingency: 18 Mths @ 3.5%
 Escalation For Inflation:

15.0%
 5.3%

Design & Inspection ?

6.7 million

Documents

Public Works (P-12) Building Condition Survey
Final Report Dated March 2008
Updated cost in April/2012

Notes and Assumptions

- 1 Based on 2013 procurement/2013 construction.
- 2 Labor rates based on Davis Bacon, 60 hours/week
- 3 Assumes open competitive bid procurement.

Public Works (P-12) Building Condition Survey
 City of Whittier, Alaska
 Prepared for USKH, Inc. by Estimations

Construction Cost Estimate
 Conceptual Submittal
 March 2010

Line No.	Description	Qty	UNITS	Material Unit	Material Total	Labor Units	Labor Hours Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
1											
2	Replace Roofing	36,091	SF								
3											
4	02050 Selective Demolition										
5	Demo Of Existing BUR & Insulation	36,091	SF	\$0.60	\$108,273	0.006	1,082.7	\$83,466		\$191,739	\$239,674
6	Demo Parapet Flashings	1,054	LF	\$0.60	\$129,928	0.006	1,299.3	\$100,164		\$230,092	\$287,615
7	Debris Handling & Disposal	90	TONS	\$1.30	\$46,918	0.030	1,082.7	\$83,466		\$130,384	\$162,980
8	Hauling and Dump Fees	90	TONS	\$50.00	\$4,500	1.159	104.3	\$8,778	\$2,609	\$15,887	\$19,064
9											
10	07510 Built-Up Bituminous Roofing										
11	Mineral Cap BUR	36,091	SF								
12	Tapered Insulation 5" Average	180,455	BF	\$0.60	\$108,273	0.006	1,082.7	\$83,466		\$191,739	\$239,674
13	Rigid Insulation, R30	216,546	BF	\$0.60	\$129,928	0.006	1,299.3	\$100,164		\$230,092	\$287,615
14	2 Ply BUR Vapor Barrier	36,091	SF	\$1.30	\$46,918	0.030	1,082.7	\$83,466		\$130,384	\$162,980
15	Wood Fiberboard	36,091	SF	\$0.35	\$12,632	0.010	360.9	\$27,822		\$40,454	\$50,568
16	MC BUR	36,091	SF	\$1.30	\$46,918	0.040	1,443.6	\$111,288		\$158,206	\$197,758
17	Cant	1,172	LF	\$3.00	\$3,516	0.029	34.0	\$2,621		\$6,137	\$7,671
18	Self Adhering Membrane	4,216	SF	\$0.66	\$2,783	0.009	37.9	\$2,922		\$5,705	\$7,131
19											
20	Build Up Parapets	1,054	SF								
21	Framing/Blocking at Parapet	4,216	BF	\$0.65	\$2,740	0.021	88.5	\$6,823		\$9,563	\$11,954
22	Plywood	4,216	SF	\$0.75	\$3,162	0.019	80.1	\$6,741		\$9,903	\$11,884
23	New Flashings	1,440	LF	\$14.00	\$20,160	0.100	144.0	\$12,119		\$32,279	\$38,735
24	Roof To Wall Flashings	420	LF	\$7.00	\$2,940	0.100	42.0	\$3,628		\$6,568	\$6,568
25											
26											
27											
28											
29	General Requirements			12%							\$149,452
30	General Contractor Overhead & Profit			10%							\$139,489
31	General Contractor Bond & Insurance			2.5%							\$38,359
32											
33	Subtotal: Replace Roofing				\$384,470		7,634.4	\$604,687	\$20,654	\$1,009,811	\$1,572,734
34											
35											

Works (P-12) Building Condition Survey
 Hittler, Alaska
 for USKH, Inc. by Estimations

Construction Cost Estimate
 Conceptual Submittal
 March 2010

Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
			Unit	Total	Units	Totals				
Replace East Roof Decking	21,279	SF								
Remove Decking	21,279	SF			0.019	404.3	\$38,343		\$38,343	\$44,094
New Support For Deck Hung	21,279	SF	\$0.30	\$6,384	0.029	617.1	\$56,344		\$62,728	\$81,546
Equipment/Ducts, Lighting, Etc										
Debris Handling & Disposal	32	TONS	\$50.00	\$1,600	2.000	64.0	\$5,386	\$928	\$5,386	\$6,463
Hauling and Dump Fees	32	TONS			1.159	37.1	\$3,122		\$5,650	\$6,779
Roof Decking	21,279	SF	\$2.25	\$47,878	0.016	340.5	\$32,292	\$2,128	\$82,298	\$94,643
General Requirements										
General Contractor Overhead & Profit			12%							\$28,023
General Contractor Bond & Insurance			10%							\$26,155
General Contractor Bond & Insurance			2.5%							\$7,193
Subtotal: Replace East Roof Decking				\$55,862		1,463.0	\$135,487	\$3,055	\$194,404	\$294,895
Contingency For West Deck	14,812	SF								
Assume 50%	7,406	SF			0.021	155.5	\$13,460		\$13,460	\$13,460
Remove Metal Deck & Plywood	7,406	SF			2.000	14.0	\$1,178		\$1,178	\$1,414
Debris Handling & Disposal	7	TONS	\$50.00	\$350	1.159	8.1	\$682	\$203	\$1,235	\$1,482
Hauling and Dump Fees	7	TONS			0.050	370.3	\$32,053		\$57,974	\$57,974
New 3x Timber Decking	7,406	SF	\$3.50	\$25,921					\$57,974	\$57,974
General Requirements			12%							\$7,135
General Contractor Overhead & Profit			10%							\$6,659
General Contractor Bond & Insurance			2.5%							\$1,831
Subtotal: Contingency For West Deck				\$26,271		547.9	\$47,373	\$203	\$73,847	\$89,955

Public Works (P-12) Building Condition Survey
 City of Whittier, Alaska
 Prepared for USKH, Inc. by Estimations

Construction Cost Estimate
 Conceptual Submittal
 March 2010

Line No.	Description	Qty	UNITS	Material Costs Unit	Total	Labor Hours Units	Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
36											
37	Replace East Roof Decking	21,279	SF								
38	Remove Decking	21,279	SF			0.019	404.3	\$38,343		\$38,343	\$44,094
39	New Support For Deck Hung	21,279	SF	\$0.30	\$6,384	0.029	617.1	\$56,344		\$62,728	\$81,546
40	Equipment/Ducts, Lighting, Etc										
41	Debris Handling & Disposal	32	TONS	\$50.00	\$1,600	2.000	64.0	\$5,386		\$5,386	\$6,463
42	Hauling and Dump Fees	32	TONS			1.159	37.1	\$3,122	\$928	\$5,650	\$6,779
43											
44	Roof Decking	21,279	SF	\$2.25	\$47,878	0.016	340.5	\$32,292	\$2,128	\$82,298	\$94,643
45											
46											
47											
48	General Requirements										\$28,023
49	General Contractor Overhead & Profit										\$26,155
50	General Contractor Bond & Insurance										\$7,193
51											
52	Subtotal: Replace East Roof Decking				\$55,862		1,463.0	\$135,487	\$3,055	\$194,404	\$294,895
53											
54											
55											
56	Contingency For West Deck	14,812	SF								
57											
58	Assume 50%	7,406	SF								
59	Remove Metal Deck & Plywood	7,406	SF			0.021	155.5	\$13,460		\$13,460	\$13,460
60	Debris Handling & Disposal	7	TONS			2.000	14.0	\$1,178		\$1,178	\$1,414
61	Hauling and Dump Fees	7	TONS	\$50.00	\$350	1.159	8.1	\$682	\$203	\$1,235	\$1,482
62	New 3x Timber Decking	7,406	SF	\$3.50	\$25,921	0.050	370.3	\$32,053		\$57,974	\$57,974
63	General Requirements										\$7,135
64	General Contractor Overhead & Profit										\$6,659
65	General Contractor Bond & Insurance										\$1,831
66											
67	Subtotal: Contingency For West Deck				\$26,271		547.9	\$47,373	\$203	\$73,847	\$89,955
68											
69											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
70											
71	Add Fire Exit Doors	8	EA								
72	Cut Opening For Door, Conc Wall	4	EA	\$462.00	\$1,848	16.000	64.0	\$5,540		\$7,388	\$7,388
74	Remove Doors & Frames	8	EA			2.000	16.0	\$1,385		\$1,385	\$1,385
75											
76	HM Insulated 3'0"x7'0"	8	EA	\$400.00	\$3,200	4.000	32.0	\$2,770		\$5,970	\$5,970
77	Insul. HM Frame	8	EA	\$250.00	\$2,000	4.000	32.0	\$2,770		\$4,770	\$4,770
78	Ext Hardware Set, With Panic Hardware	8	EA	\$1,600.00	\$12,800	6.000	48.0	\$4,155		\$16,955	\$16,955
79											
80											
81											
82											
83											
84											
85											
86	General Requirements										\$4,376
87	General Contractor Overhead & Profit										\$4,084
88	General Contractor Bond & Insurance										\$1,123
89											
90	Subtotal: Add Fire Exit Doors				\$19,848		192.0	\$16,620		\$36,468	\$46,052
91											
92											
93											
94	Provide Dust Collection System	1	EA	\$45,000.00	\$45,000	80.000	80.0	\$6,910		\$51,910	\$51,910
95											
96											
97											
98	General Requirements										\$6,229
99	General Contractor Overhead & Profit										\$5,814
100	General Contractor Bond & Insurance										\$1,599
101											
102	Subtotal: Provide Dust Collection System				\$45,000		80.0	\$6,910		\$51,910	\$65,552
103											
104											

Line No.	Description	Qty	UNITS	Material Costs Unit	Total	Labor Hours Units	Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
105	Provide Boiler Room Enclosure	600	SF								
107	New 1 Hour Partitions To Deck	1,225	SF	\$2.75	\$3,369	0.114	139.7	\$12,092		\$15,461	\$17,780
108	Gypsum Lid	600	SF	\$1.55	\$930	0.079	47.4	\$4,103		\$5,033	\$5,798
110	Remove/Replace Lighting	10	EA	\$150.00	\$1,500	2.500	25.0	\$2,283		\$3,783	\$4,918
111	Relocate Misc Ceiling Hung Equipment	600	SF			0.043	25.8	\$2,323		\$2,323	\$3,020
112	Allow For Relocate Of Wall Mtd Equip	1	LS			80.000	80.0	\$7,204		\$7,204	\$9,365
113											
114											
115											
116											
117											
118	General Requirements										\$4,905
119	General Contractor Overhead & Profit										\$4,578
120	General Contractor Bond & Insurance										\$1,259
121											
122	Subtotal: Provide Boiler Room Enclosure				\$5,799		317.9	\$28,005		\$33,804	\$51,612
123											
124											
125											
126	Remove Exposed Insulation Board Over Windows and On Walls										
127	Cover Insulation Board	4,000	SF	\$1.10	\$4,400	0.064	256.0	\$22,159		\$26,559	\$30,543
128	Remove Insulation Board On Walls	500	SF	\$0.10	\$50	0.010	5.0	\$433		\$483	\$483
129											
130											
131											
132	General Requirements										\$3,723
133	General Contractor Overhead & Profit										\$3,475
134	General Contractor Bond & Insurance										\$956
135											
136	Subtotal: Remove Exposed Insulation Board Over Windows and On Walls				\$4,450		261.0	\$22,592		\$27,042	\$39,180
137											
138											

Public Works (P-12) Building Condition Survey
 City of Whittier, Alaska
 Prepared for USKH, Inc. by Estimations

Construction Cost Estimate
 Conceptual Submittal
 March 2010

Line No.	Description	Qty	UNITS	Material Unit	Costs Total	Labor Units	Hours Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
139											
140	Replace Windows	243	EA								
141											
142	Demo Windows	243	EA			2,000	486.0	\$44,546		\$44,546	\$53,455
143	Kalawall Translucent Panels	3,900	SF	\$90.00	\$351,000					\$351,000	\$421,200
144											
145											
146											
147											
148	General Requirements										\$56,959
149	General Contractor Overhead & Profit										\$53,161
150	General Contractor Bond & Insurance										\$14,619
151											
152	Subtotal: Replace Windows				\$351,000		486.0	\$44,546		\$395,546	\$599,394
153											
154											
155											
156	Replace Wooden Overhead Doors	2	EA								
157											
158	Demo OH Doors	2	EA	\$100.00	\$200	16,000	32.0	\$2,770		\$2,970	\$2,970
159	Insulated Overhead Doors										
160	12x12	1	EA	\$6,480.00	\$6,480					\$6,480	\$6,480
161	16x16	1	EA	\$11,520.00	\$11,520					\$11,520	\$11,520
162	Operators	2	EA	\$1,100.00	\$2,200	4,000	8.0	\$692		\$2,892	\$2,892
163	Electrical Connections	2	EA	\$213.50	\$427	6,000	12.0	\$1,096		\$1,523	\$1,980
164											
165											
166											
167	General Requirements										\$3,101
168	General Contractor Overhead & Profit										\$2,894
169	General Contractor Bond & Insurance										\$796
170											
171	Subtotal: Replace Wooden Overhead Doors				\$20,827		52.0	\$4,558		\$25,385	\$32,633
172											
173											

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Line No.	Description	Qty	UNITS	Material Costs Unit	Total	Labor Hours Units	Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
174											
175	Remove/Dispose of Damaged ACM Pipe Insulation										
176											
177	Hazmat Equip, Containment, Etc	1	LS	\$1,500.00	\$1,500	42.857	42.9	\$3,326		\$4,826	\$5,791
178	Pipe Insulation Removal	400	LF	\$2.00	\$800	0.200	80.0	\$6,202		\$7,002	\$8,402
179	Remove Pipe Fittings	25	EA	\$5.00	\$125	1.000	25.0	\$1,938		\$2,063	\$2,476
180	Monitoring	7	DAY	\$500.00	\$3,500					\$3,500	\$4,200
181											
182											
183											
184											
185											
186	General Requirements										\$2,504
187	General Contractor Overhead & Profit										\$2,337
188	General Contractor Bond & Insurance										\$643
189											
190	Subtotal: Remove/Dispose of Damaged ACM Pipe Insulation				\$5,925		147.9	\$11,466		\$17,391	\$26,353
191											
192											
193											
194	Remove ACM Joint Compound & GWB at Boiler Room										
195											
196	Demo Partitions	875	SF	\$0.50	\$438	0.100	87.5	\$6,783		\$7,221	\$8,665
197	Hazmat Equip, Containment, Etc	1	LS	\$1,500.00	\$1,500	42.857	42.9	\$3,326		\$4,826	\$5,791
198	Monitoring	6	DAY	\$500.00	\$3,000					\$3,000	\$3,600
199											
200											
201											
202	General Requirements										\$2,167
203	General Contractor Overhead & Profit										\$2,022
204	General Contractor Bond & Insurance										\$556
205											
206											
207											
208											
	Subtotal: Remove ACM Joint Compound & GWB at Boiler Room				\$4,938		130.4	\$10,109		\$15,047	\$22,801

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209	Remove and Dispose of Remaining ACM Thermal Insulation											
210	Hazmat Equip, Containment, Etc	1	LS	\$1,500.00	\$1,500	42.857	42.9	\$3,326		\$4,826	\$5,791	
211	Pipe Insulation Removal	3,700	LF	\$2.00	\$7,400	0.200	740.0	\$57,368		\$64,768	\$77,722	
212	Remove Pipe Fittings	107	EA	\$5.00	\$535	1.000	107.0	\$8,295		\$8,830	\$10,596	
213	Roof Drains and Necks	8	EA			4.000	32.0	\$2,481		\$2,481	\$2,977	
214	Replace Roof Drains	8	EA	\$600.00	\$4,800	8.000	64.0	\$5,763		\$10,563	\$13,732	
215	Monitoring	28	DAY	\$500.00	\$14,000					\$14,000	\$16,800	
216												
217												
218												
219												
220												
221												
222												
223	General Requirements							12%			\$15,314	
224	General Contractor Overhead & Profit							10%			\$14,293	
225	General Contractor Bond & Insurance							2.5%			\$3,931	
226												
227												
228	Subtotal: Remove and Dispose of Remaining ACM Thermal Insulation				\$28,235		985.9	\$77,233		\$105,468	\$161,156	
229												
230												
231	Remove/Dispose Lead Impacted Ext Windows											
232												
233	No Additional Cost - Assumed Lead Is											
234	Disposed With Construction Waste											
235												
236												
237												
238												
239												
240	Subtotal: Remove/Dispose Lead Impacted Ext Windows											
241												
242												

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
243											
244	Remove Abandoned Ventilation Ducting	270	LF			0.215	58.1	\$5,232		\$5,232	\$6,802
245	Demo Duct 36x18	270	LF			0.075	20.3	\$1,828		\$1,828	\$2,376
246	Demo Ducts 6" Dia	185	LF			0.180	33.3	\$2,999		\$2,999	\$3,899
247	Demo Ducts 12x24	50	LF			0.105	5.3	\$477		\$477	\$620
248	Demo Ducts 12" Dia	1	EA	\$500.00	\$500	16.000	16.0	\$1,441	\$750	\$2,691	\$3,498
249	Debris Handling and Disposal										
250											
251	General Requirements							12%			\$2,063
252	General Contractor Overhead & Profit							10%			\$1,926
253	General Contractor Bond & Insurance							2.5%			\$530
254											
255	Subtotal: Remove Abandoned Ventilation Ducting				\$500		133.0	\$11,977	\$750	\$13,227	\$21,714
256											
257	Average Labor Rate for this division: \$90.05 per hour										
258											
259	Replace Heating System	33,384	SF								
260	Office Area	4,600	SF								
261	Furnaces	2	EA	\$2,100.00	\$4,200	16.000	32.0	\$2,882		\$7,082	\$9,207
262	Gas Supply Piping	2	EA	\$300.00	\$600	10.000	20.0	\$1,801		\$2,401	\$3,121
263	Ductwork	4,600	SF	\$2.75	\$12,650	0.056	257.6	\$23,197		\$35,847	\$46,601
264	Diffusers	30	EA	\$150.00	\$4,500	1.000	30.0	\$2,702		\$7,202	\$9,363
265	Controls	8	EA	\$750.00	\$6,000					\$6,000	\$7,800
266	Shop Area	28,784	SF								
267	Gas Fired IR Heaters 120MBH	20	EA	\$1,600.00	\$32,000	12.000	240.0	\$21,612		\$53,612	\$69,696
268	Gas Piping	1,000	LF	\$12.00	\$12,000	0.343	343.0	\$30,888		\$42,888	\$55,754
269	Controls	20	EA	\$750.00	\$15,000					\$15,000	\$19,500
270											
271	General Requirements							12%			\$26,525
272	General Contractor Overhead & Profit							10%			\$24,757
273	General Contractor Bond & Insurance							2.5%			\$6,808
274											
275	Subtotal: Replace Heating System				\$86,950		922.6	\$83,082		\$170,032	\$279,132
276											
277	Average Labor Rate for this division: \$90.05 per hour										

Public Works (P-12) Building Condition Survey
 City of Whittier, Alaska
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Construction Cost Estimate
 Conceptual Submittal
 March 2010

Line No.	Description	Qty	UNITS	Material Cost Unit	Total	Labor Hours Units	Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
278	Replace Lighting	33,384	SF								
280											
281	Office Lighting	4,600	SF								
282	Fluorescent Fixtures	92	EA	\$250.00	\$23,000	1.236	113.7	\$10,381		\$33,381	\$43,395
283	Exit Lights LED	6	EA	\$156.00	\$936	1.000	6.0	\$548		\$1,484	\$1,929
284	Emergency Lights	6	EA	\$150.00	\$900	1.000	6.0	\$548		\$1,448	\$1,882
285	Switches	20	EA	\$18.00	\$360	0.500	10.0	\$913		\$1,273	\$1,655
286	Wiring	3,100	LF	\$1.60	\$4,960	0.080	248.0	\$22,644		\$27,604	\$35,885
287	Demolition	4,600	SF			0.025	115.0	\$10,500		\$10,500	\$13,650
288											
289	Shop Lighting	28,784	SF								
290	High Bay Fixtures	131	EA	\$450.00	\$58,950	3.000	393.0	\$35,883		\$94,833	\$123,283
291	Exit Lights LED	8	EA	\$156.00	\$1,248	1.000	8.0	\$730		\$1,978	\$2,571
292	Emergency Lights	16	EA	\$150.00	\$2,400	1.000	16.0	\$1,461		\$3,861	\$5,019
293	Switches	16	EA	\$18.00	\$288	0.500	8.0	\$730		\$1,018	\$1,323
294	Wiring	4,275	LF	\$1.60	\$6,840	0.080	342.0	\$31,226		\$38,066	\$49,486
295	Demolition	28,784	SF			0.025	719.6	\$65,703		\$65,703	\$85,414
296											
297											
298											
299											
300											
301											
302											
303											
304											
305											
306	General Requirements										
307	General Contractor Overhead & Profit										
308	General Contractor Bond & Insurance										
309											
310	Subtotal: Replace Lighting				\$99,882		1,985.3	\$181,267		\$281,149	\$461,543
311											
312	Average Labor Rate for this division: \$91.30 per hour										

Public Works (P-12) Building Condition Survey
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Construction Cost Estimate
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 March 2010

Line No.	Description	Qty	UNITS	Material Costs Unit	Total	Labor Hours Units	Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
313	Relocate/Upgrade Main Distribution										
314	Exterior										
315	New 100A Meter Base With Bkr, 480/3	1	EA	\$300.00	\$300	4.000	4.0	\$365		\$665	\$865
316	New 200A Meter Base With Bkr, 480/3	1	EA	\$350.00	\$350	4.000	4.0	\$365		\$715	\$930
317	New 400A Ct Cabinet and Meter, 480/3	1	EA	\$3,000.00	\$3,000	8.000	8.0	\$730		\$3,730	\$4,849
318	New 400A Fused Disconnect	1	EA	\$2,500.00	\$2,500	9.000	9.0	\$622		\$3,322	\$4,319
319	New 200A Fused Disconnect	1	EA	\$980.00	\$980	6.000	6.0	\$548		\$1,528	\$1,986
320	Feeder 100A	20	LF	\$11.58	\$232	0.196	3.9	\$356		\$588	\$764
321	Feeder 200A	20	LF	\$40.21	\$804	0.390	7.8	\$712		\$1,516	\$1,971
322	Feeder 400A	20	LF	\$61.91	\$1,238	0.487	9.7	\$886		\$2,124	\$2,761
323	Generator Room										
324	200A Manual Transfer Switch, 480/3	1	EA	\$2,250.00	\$2,250	6.000	6.0	\$548		\$2,798	\$3,637
325	100A Manual Transfer Switch, 480/3	1	EA	\$1,000.00	\$1,000	4.000	4.0	\$365		\$1,365	\$1,775
326	75KVA Transformer	1	EA	\$5,500.00	\$5,500	22.000	22.0	\$2,009		\$7,509	\$9,762
327	400A Distribution Panel, 480/3, MLO	1	EA	\$3,700.00	\$3,700	12.000	12.0	\$1,096		\$4,796	\$6,235
328	Remove/Reinstall Well Pump Controls	1	EA	\$500.00	\$500	26.000	26.0	\$2,374		\$2,874	\$3,736
329	Remove/Reinstall Square D Power-Zone	1	EA	\$500.00	\$500	12.000	12.0	\$1,096		\$1,596	\$2,075
330	Panelboard 100A, 208/3, MLO, 30sp	1	EA	\$900.00	\$900	8.000	8.0	\$730		\$1,630	\$2,119
331	Feeder 100A	50	LF	\$11.58	\$579	0.196	9.8	\$895		\$1,474	\$1,916
332	Feeder 200A	50	LF	\$40.21	\$2,011	0.390	19.5	\$1,780		\$3,791	\$4,928
333	Feeder 400A	50	LF	\$61.91	\$3,096	0.487	24.4	\$2,228		\$5,324	\$6,921
334	Building Distribution (Tenant)										
335	Feeder 400A	50	LF	\$61.91	\$3,096	0.487	24.4	\$2,228		\$5,324	\$6,921
336	Building Distribution (Fire Dept)										
337	Feeder 400A	200	LF	\$61.91	\$12,382	0.487	97.4	\$8,893		\$21,275	\$27,658
338	General Requirements										
339	General Contractor Overhead & Profit										
340	General Contractor Bond & Insurance										
341											
342											
343											
344											
345	Subtotal: Relocate/Upgrade Main Distribution				\$44,918		317.9	\$29,026		\$73,944	\$121,390
346											
347											

Public Works (P-12) Building Condition Survey
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Construction Cost Estimate
 Conceptual Submittal
 March 2010

Line No.	Description	Qty	UNITS	Material Costs		Labor Hours	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total					
348										
349	Replace Electrical Panels and Branch Circuitry									
350										
351	Generator Room									
352	Remove/Reinstall 75KVA Transformer	1	EA	\$500.00	\$500	26.000	\$2,374		\$2,874	\$3,736
353	Note: Feeder Lengths Are Assumed									
354	Allow For Branch Circuits, Assume 70% Of Panel Is Populated With Circuits	21	EA	\$180.00	\$3,780	6.857	\$13,148		\$16,928	\$22,006
355										
356	Building Distribution (Tenant)									
357	400A Distribution Panel, 480/3, MLO	1	EA	\$3,700.00	\$3,700	12.000	\$1,096		\$4,796	\$6,235
358	75KVA Transformer	1	EA	\$5,500.00	\$5,500	22.000	\$2,009		\$7,509	\$9,762
359	Panelboard 225A, 208/3, MLO, 42sp	2	EA	\$1,600.00	\$3,200	12.000	\$2,191		\$5,391	\$7,008
360	Panelboard 100A, 208/3, MLO, 30sp	1	EA	\$900.00	\$900	8.000	\$730		\$1,630	\$2,119
361	Feeder 100A	100	LF	\$11.58	\$1,158	0.196	\$1,790		\$2,948	\$3,832
362	Feeder 225A	100	LF	\$40.21	\$4,021	0.390	\$3,561		\$7,582	\$9,857
363	Note: Feeder Lengths Are Assumed									
364	Allow For Branch Circuits, Assume 70% Of Panel Is Populated With Circuits	80	EA	\$180.00	\$14,400	6.857	\$50,090		\$64,490	\$83,837
365										
366	Building Distribution (Fire Dept)									
367	Panelboard 225A, 208/3, MLO, 42sp	1	EA	\$1,700.00	\$1,700	12.000	\$1,096		\$2,796	\$3,635
368	Panelboard 100A, 208/3, MLO, 30sp	2	EA	\$1,100.00	\$2,200	8.000	\$1,461		\$3,661	\$4,759
369	400A distribution panel, 208/3, MLO	1	EA	\$4,000.00	\$4,000	12.000	\$1,096		\$5,096	\$6,625
370	Feeder 100A	200	LF	\$11.58	\$2,316	0.196	\$3,579		\$5,895	\$7,664
371	Feeder 225A	100	LF	\$40.21	\$4,021	0.390	\$3,561		\$7,582	\$9,857
372	Note: Feeder Lengths Are Assumed									
373	Allow For Branch Circuits, Assume 70% Of Panel Is Populated With Circuits	71	EA	\$180.00	\$12,780	6.857	\$44,447		\$57,227	\$74,395
374										
377										
378										
379										
380										
381										

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Line No.	Description	Qty	UNITS	Material Costs Unit	Material Costs Total	Labor Hours Units	Labor Hours Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
382											
383	Building Distribution (City Shop)										
384	Panelboard 225A, 208/3, M.L.O., 42sp	4	EA	\$1,600.00	\$6,400	12.000	48.0	\$4,383		\$10,783	\$14,018
385	Feeder 225A	700	LF	\$40.21	\$28,147	0.390	273.0	\$24,926		\$53,073	\$68,995
386	Note: Feeder Lengths Are Assumed Allow For Branch Circuits, Assume 70% Of Panels Populated With Circuits	118	EA	\$180.00	\$21,240	6.857	809.1	\$73,875		\$95,115	\$123,050
387											
388											
389	Electrical Demolition	33,384	SF			0.057	1,902.9	\$173,745		\$173,745	\$225,869
390											
391											
392											
393											
394											
395											
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398											
399											
400											
401											
402											
403											
404											
405											
408											
409											
410											
411	General Requirements										\$82,543
412	General Contractor Overhead & Profit										\$77,040
413	General Contractor Bond & Insurance										\$21,186
414											
415											
416											
417											
Subtotal: Replace Electrical Panels and Branch Circuitry					\$119,963		4,481.2	\$409,158		\$529,121	\$868,628