



August 14, 2015

VIA FACSIMILE 916-227-6282

Mr. John McMillan  
Deputy Division Chief  
California Department of Transportation  
Office Engineer  
1727 30<sup>th</sup> Street Bidder Exchange MS 43  
Sacramento CA 95816

Re: 04-4A4804 Construction on State Highway in Alameda and Oakland at Posey Tube and Webster Street Tube

Subject: Bid Protest

Dear Mr. McMillan,

Bid for Contract 04-4A4804 were opened on July 30, 2015 by the California Department of Transportation. Two proposals were submitted for consideration. Gordon N. Ball (GNB) of Alamo, California submitted the apparent lowest proposal. Taber Construction Inc. (Taber) submitted the apparent second lowest proposal. Based on the information below, Taber believes that the proposal submitted by GNB should be rejected as non-responsive and the project should be awarded to Taber, the lowest responsive bidder.

**GNB Lacks the Required Qualifications to Perform the Work**

Paragraph 1.7 Quality Assurance of Section 013591 Historic Treatment Procedures of the Special Provisions states in part "A. Historic Treatment Specialist Qualifications: An experienced firm regularly engaged in historic treatments similar in nature, materials, design, and extent to this work as specified in each section and that has completed a minimum of five recent projects with a record of successful in service performance that demonstrates the firm's qualifications to perform this work."(Attachment 1) GNB's website describes the firm as a Heavy Highway General Engineering Construction Company that performs all types of earthwork grading, heavy structural components, including bridges and retaining walls. (Attachment 2) Based on its website description of its areas of work, it does not appear that GNB possesses the required qualifications for this work. Absent evidence of experience, including five recent projects involving historic treatment, Caltrans should find GNB's bid non-responsive.



### **GNB Failed to Perform a Good Faith Effort to Solicit DBEs**

On August 11, 2015 Caltrans posted the DBE Submittal provided by GNB. The Contract included a Disadvantaged Business Enterprise (DBE) participation goal of 11.0%; GNB is claiming to have achieved 3.6%; as such GNB was required to document adequate Good Faith Efforts in accordance with the Bid Documents, which includes but are not limited to 49 CFR Part 26, Appendix A.

49 CFR Part 26 Appendix A states in part that the "Bidder shall select portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation."

49 CFR Part 26 Appendix A further states "The efforts employed by the bidder should be those that one could reasonably expect a bidder to take if the bidder were actively and aggressively trying to obtain DBE participation sufficient to meet the DBE contract goal. Mere pro forma efforts are not good faith efforts to meet the DBE contract requirements."

### **GNB did not make sufficient work available to DBEs**

According to GNB's GFE documentation, specifically its table labeled "GFE Documentation Item 1"; GNB made \$1,067,000.00 of work available to DBEs. Among the work made available, GNB claims to have made \$300,000.00 available for "CLS 2 AGG SUBBASE"; this value is grossly overstated. The project included a total of 40 cubic yards of Class 2 Aggregate Subbase, which GNB bid at \$8,000.00, or 3,750% less than the amount GNB claimed was made available. The same occurs for other items including Cold Plane AC where GNB claims \$75,000.00 of work was made available, but it bid the item at \$4,400.00; and again with Concrete Barrier where \$100,000.00 was made available but the item was bid at \$19,200.00. GNB's claimed work that was made available to DBEs is overstated and as such GNB did not demonstrate that sufficient work to meet the goal was made available to DBE firms.

According to GNB's Bid it includes \$6,545,000.00 of Building Work which accounts for 83% of its total bid. According to GNB's GFE it only solicited DBE's with Work Codes C9801 Building Construction, C9906 Sandblasting, and C9980 Demolition for the Building Work (Attachment 3). Of the \$6,545,000.00 in Building Work, GNB appears to have made only \$10,000.00, or less than 0.15% of the building work available to DBEs (Attachment 4).

GNB only identified Work Code C9801 for all of the building work save and except for sandblasting and demolition. Work Code C9801 is described by Caltrans in its "Work Code



Template" as "Assembling of infrastructure. The process of adding structure to real property." Further a Class B-General Building Contractor license is required for Work Code C9801. B&P Code 7507(b) states in part "A general building contractor shall not take a subcontract involving trades other than framing or carpentry, unless the subcontract requires at least two unrelated trades or crafts other than framing or carpentry, or unless the general building contractor holds the appropriate license classification. The general building contractor may not count framing or carpentry in calculating the two unrelated trades necessary in order for the general building contractor to be able to take a prime contract or subcontract for a project involving other trades.

When GNB narrowed its Building Work search to C9801 it essentially precluded the solicited DBEs with this Work Code from bidding on the project unless they performed only framing, carpentry, or at least two other unrelated trades; thereby removing the possibility of breaking out contract work items into economically feasible units.

**GNB did not identify the appropriate Work Codes for the Contract**

The Building Work on the project includes the work described in Division XI Building Construction of the Special Provisions. This work includes at least C0652 Reinforcing Bar Section Supplier, C0655 Steel Supplier, C0656 Doors & Frames Supplier, C0657 Lumber Supplier, C0659 Paint Supplier, C0660 Roofing, Siding and Insulation Supplier, C6070 Pipe Supplier, C0671 Drainage Systems Supplier, C0698 Building Material Supplier, C3000 Concrete Pumping, C5100 Concrete Structure, C5124 Erect Precast Concrete, C5201 Reinforcing Steel, C5401 Waterproofing, C5501 Steel Structures, C5900 Clean and Paint Steel, C7602 Sawcutting, C8330 Metal Railing, C8733 Construction Engineering & Inspection Services, C8802 Construction Scheduling, C9822 Carpentry, C8713 Consulting, Environmental, C9836 Plastering, C9837 Roofing, C9850 Plumbing, C9869 Asbestos Removal/Abatement, C9874 Hardware (Rough), C9876 Hardware (Finish), C9903 Construction Clean Up, and F5251 Hardware Stores. GNB did not search any of these Work Codes. According to Caltrans own independent cost estimate included in the Information Handout, the above work items alone exceed \$2,000,000.00 in value. (Attachment 5)

Taber's DBE Commitment includes \$1,631,610.00 of DBE participation specific to the Work Codes identified above. Had GNB identified and solicited the proper work codes it would have been able to meet the DBE goal.

GNB does not possess the qualifications required by the Special Provisions to perform the Historical Treatment Work. Further GNB does not appear to have performed a good faith effort in conformance with 49 CFR Part 26 Appendix A. For these reasons the Bid submitted by GNB should be rejected as non-responsive and the project awarded to Taber, the lowest responsive bidder.



Sincerely,

A handwritten signature in black ink, appearing to read "Bret Taber". The signature is stylized and fluid.

Bret Taber  
Taber Construction Inc.

Attachments

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6) Change Orders for historic treatment work.

3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

**1.5 MATERIALS OWNERSHIP**

A. Historic items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value to the Department that may be encountered or uncovered during the Work, regardless of whether they were previously documented, remain the Department's property.

**1.6 INFORMATIONAL SUBMITTALS**

A. Historic Treatment Subschedule:

1. Submit historic treatment subschedule within 30 days of date established for commencement of historic treatment work.

B. Preconstruction Documentation: Show preexisting conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by Contractor's historic treatment operations.

C. Historic Treatment Program: Submit 30 days before work begins.

D. Fire-Prevention Plan: Submit 30 days before work begins.

**1.7 QUALITY ASSURANCE**

A. Historic Treatment Specialist Qualifications: An experienced firm regularly engaged in historic treatments similar in nature, materials, design, and extent to this work as specified in each section and that has completed a minimum of five recent projects with a record of successful in-service performance that demonstrates the firm's qualifications to perform this work.

1. Field Supervisor Qualifications: Part-time supervisors experienced in historic treatment work similar in nature, material, design, and extent to that indicated for this Project. Supervisors shall be on the Project site when historic treatment work begins and during its progress. Supervisors shall not be changed during the Project except for causes beyond the control of the specialist firm.

a. Construct new mockups of required work whenever a supervisor is replaced.

B. Historic Treatment Program: Prepare a written plan for historic treatment for the whole Project, including each phase or process and protection of surrounding materials during operations. Describe in detail the materials, methods, and equipment to be used for each phase of work. Show compliance with indicated methods and procedures specified in this and other Sections. Coordinate this whole-Project historic treatment program with specific requirements of programs required in other historic treatment Sections.

1. Dust and Noise Control: Include locations of proposed temporary dust- and noise-control partitions and means of egress from occupied areas coordinated with continuing on-site operations and other known work in progress.

2. Debris Hauling: Include plans clearly marked to show debris hauling routes, turning radii, and locations and details of temporary protective barriers.

C. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-prevention devices during each phase or process. Coordinate plan with the Department's fire-protection equipment and requirements. Include fire-watch personnel's training, duties, and authority to enforce fire safety.

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# Gordon N. Ball, Inc.

General Engineering Contractors

925-838-5675

CONSTRUCT THE PROJECT, SATISFY EVERYONE

Please Rate Us – Go to 'Contact Us' to Submit a Survey



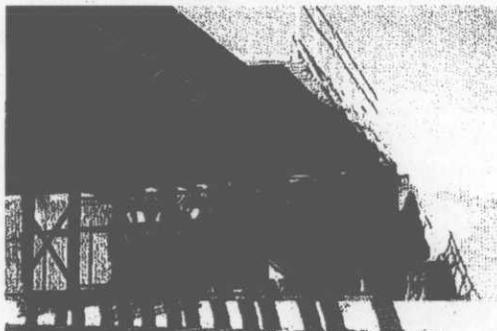
## What We Do

A Heavy Highway General Engineering Construction Company – Who Does More  
Than Most

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## Site Grading & Underground

We perform all types of earthwork grading, and the more difficult and complex , the better. We excel at grading projects with difficult access, challenging geometrics, major instability, and overall complexity. We are very experienced with all other facets of grading and underground work, and have proven ourselves many times over.



(<http://i2.wp.com/ballconco.com/wp>)

## Structural Concrete / Structural Steel

The key to the competitiveness and abilities of Gordon N. Ball, Inc. is that we have the whole package. Along with our earthwork grading & underground experience, we excel and self perform construction of all types of heavy structural components, including post tensioned highway bridges, precast concrete bridges, retaining walls, soldier pile walls, concrete or structural steel pedestrian and railroad bridges. We have successfully completed structures under some of the most challenging circumstances imaginable, allowing us to apply our experience to future projects that include heavy civil structure work



## Damage Repair & Restoration

Our firm has completed a vast number of damage repair projects, including slide repairs, structural concrete repairs, underground facility repairs, and wetland/riparian restorations. Owners have contacted us directly to perform challenging emergency repair projects because of their confidence in and knowledge of our ability to perform. We have successfully delivered, on time and under budget, an extensive number of projects. Our experience working in environmentally challenging wetland and riparian restoration is very credible, having successfully worked in just about every sensitive environment that exists in Northern California.

## Job 185 – Bradley Moody Underpass Bridge Installation Time Lapse



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# What Owners Say

Query Form

Search Returned 242 Records

Wed Jul 15 15:38:12 PDT 2015

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Query Criteria

District: 04

County: ALAMEDA

Work Codes: C0639 ASPHALT SUPPLIER C0651 CONCRETE & CEMENT SUPPLIER C1200  
CONSTRUCTION AREA SIGNS C1201 TRAFFIC CONTROL SYSTEM C1531 PLANE ASPHALT  
CONCRETE C1601 CLEARING & GRUBBING C2501 AGGREGATE SUBBASE C3901 ASPHALT  
CONCRETE C8331 CONCRETE BARRIER C8405 THERMOPLASTIC TRAFFIC STRIPING &  
MARKING C8407 REMOVE PAVEMENT MARKING & TRAFFIC STRIPES C8501 PAVEMENT  
MARKING C8604 LIGHTING C8605 MESSAGE SIGNS, LIGHTING & SIGN ILLUMINATION  
C8791 Environmental - Air Quality C8851 Lead Compliance C8852 SWPPP Planning C9604 SUPER 10  
DUMP TRUCK C9607 END DUMP TRUCK C9801 BUILDING CONSTRUCTION C9906  
SANDBLASTING C9980 DEMOLITION  
Firm Type: DBE

Firm ID 33638  
Firm/DBA Name A & P DEVELOPMENT & CONSTRUCTION, INC. DBA AP CONSTRUCTION,  
Address Line1 3555 VOYAGER STREET, SUITE B  
Address Line2  
City TORRANCE  
State CA  
Zip Code1 90503  
Zip Code2  
Mailing Address Line1  
Mailing Address Line2  
Mailing City  
Mailing State  
Mailing Zip Code1  
Mailing Zip Code2  
Certification Type DBE  
EMail pocampo@ap-construction.com  
Contact Name PETER OCAMPO  
Area Code (310)  
Phone Number 793-2310  
Alt Area Code (  
Alt Phone Number  
Fax Area Code (310)  
Fax Phone Number 793-2312  
Agency Name LOS ANGELES COUNTY METRO TRANSPORTATION AUTHORITY (MTA)  
Counties 00;  
Districts 00;  
DBE NAICS 236210; 236220; 237110; 237130; 237990; 238220; 238910;

ACDBE NAICS

Work Codes A0710 SOIL PREPARATION SERVICES; C6501 STEEL STRUCTURES; C6783 Engineering - Structural;  
C9801 BUILDING CONSTRUCTION; C9850 PLUMBING; C9866 HEATING & AIR CONDITIONING; C9980  
DEMOLITION; D3530 CONSTRUCTION & RELATED MACHINERY; E4952 SEWERAGE SYSTEMS;  
Licenses A General Engineering Contractor; B General Building Contractor; C13 Fencing Contractor; C36 Plumbing  
Contractor;  
Trucks  
Gender M  
Ethnicity HISPANIC  
Firm Type DBE

Firm ID 5270

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<http://www.dot.ca.gov/ucp/QuerySubmit.do>

Gordon Ball, Inc.  
 Caltrans No. 04-4A4804  
 GFE Documentation Item 1  
 Submittal Date 8/4/2015

Item of Work Offered, Services Offered, or Materials Supplied	Bidder Normally Performs Item Yes/No	Items Broken Down to Facilitate Participation Yes/No	Established Flexible Timeframes for Performance and Delivery Schedules Yes/No	Amount (\$)	Percentage of Total Bid
LCP	NO	YES	NO	\$ 10,000.00	0.09%
TEMP SHUTTLE SERVICE	YES	YES	NO	\$ 50,000.00	0.45%
CAS	NO	YES	NO	\$ 10,000.00	0.09%
TRAFFIC CONTROL SYSTEM	NO	YES	NO	\$ 150,000.00	1.35%
WPCP	NO	YES	NO	\$ 5,000.00	0.05%
REMOVE STRIPING	NO	YES	NO	\$ 15,000.00	0.14%
AIR MONITORING	NO	YES	NO	\$ 15,000.00	0.14%
COLD PLANE AC	NO	YES	NO	\$ 75,000.00	0.68%
CONCRETE DEMO	YES	YES	NO	\$ 70,000.00	0.63%
CLS 2 AGG SUBBASE	YES	YES	NO	\$ 300,000.00	2.71%
HMA SUPPLY	YES	YES	NO	\$ 25,000.00	0.23%
CONCRETE SUPPLY	YES	YES	NO	\$ 5,000.00	0.05%
CONCRETE BARRIER	YES	YES	NO	\$ 100,000.00	0.90%
STRIPING/MARKING	NO	YES	NO	\$ 115,000.00	1.04%
LIGHTING	NO	YES	NO	\$ 25,000.00	0.23%
SIGN ILLUMINATION	NO	YES	NO	\$ 50,000.00	0.45%
CLOSED TV SYSTEM	NO	YES	NO	\$ 35,000.00	0.32%
BUILDING WORK	YES	YES	NO	\$ 10,000.00	0.09%
TRUCKING	YES	YES	NO	\$ 2,000.00	0.02%

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**Posey Tunnel Conditions Assessment**

**Proposed Actions Cost Estimate**

26-Oct-12

All costs are unit prices including materials and labor.  
Costs include both Portal Buildings unless specifically noted otherwise.

Item No.	Action	L1			L2			L3			L4		
		Unit	Quantity	Material	Unit	Quantity	Material	Unit	Quantity	Material	Unit	Quantity	Material
1	Clean Interior Conc. Cracks and Apply Sealer				1 SF	500		7500	1 LF	1000			
2	Repair Damaged Beam at Landing Cover	LF	25	1125	LF	25	1125	LF	25				
3	Repair Int. Spalls (clean, paint & synthetic filler)	2 SF	92 M3	5060	1 LF	192	M3	10960	1 LF	405	M3		
4	Remove Existing Cementitious Coating	SF											
5	Sew-cut Major Cracks and Seal								SF	20,800			
6	Seal Fineline Cracks								LF	240			
7	Repair Existing Plaster Patches	4 SF	820	\$28,700.00	4 SF	1,200	\$44,100.00	4 SF	1,840	\$64,400.00			
8	Repair Ext. Spalls (clean, paint, & synthetic filler)	5 EA	48	\$5,952.00	5 EA	48	\$5,952.00	5 EA	48	\$5,952.00			
9	Remove Loose Coating and Paint (see line 9)	SF	20,800	\$457,600.00									
10	Paint Exst. Wall Coatings with Ter-Polymer												
11	Paint Bare Concrete Walls with Ter-Polymer	5 SF			5 SF	20,800	M4	\$582,400.00					
12	Remove Ornamental Grilles and Paint								SF	20,800			
13	Remove Glass Louvers and Paint Frame	6 SF	2440	\$45,920.00	6 SF	2440	\$45,920.00	6 SF	2440	\$45,920.00			
14	Replace Glass Louver Blades	SF	2440	\$39,040.00	SF	2440	\$39,040.00	SF	2440	\$39,040.00			
15	Replace Ornamental Grilles and seal edges	SF	2440	\$13,176.00	SF	2440	\$13,176.00	SF	2440	\$13,176.00			
16	Remove Short Blocks in Wd. Lattices	Ea	24	\$9,240.00	Ea	24	\$9,240.00	Ea	24	\$9,240.00			
17	Remove all Loose Lattice Paint	7 SF	320	\$704.00	7 SF	320	\$704.00	7 SF	320	\$704.00			
18	Install New Short Blocks	SF	320	\$992.00	SF	320	\$992.00	SF	320	\$992.00			
19	Apply Wd. Conditioner and Repaint Lattices	SF	320	\$1,232.00	SF	320	\$1,232.00	SF	320	\$1,232.00			
20	Cast & Install Replacement Plaster Capitals	SF	320	\$1,360.00	SF	320	\$1,360.00	SF	320	\$1,360.00			
21	Cast & Install Replacement Frieze	5 EA	22	\$27,500.00	5 EA	22	\$27,500.00	5 EA	22	\$27,500.00			
22	Cast & Install Replacement Medallions	5 EA	80	\$68,000.00	5 EA	80	\$68,000.00	5 EA	80	\$68,000.00			
23	Remove Loose Window paint & repaint	SF	300	\$3,900.00	SF	300	\$3,900.00	SF	300	\$3,900.00			
24	Remove All Window Putty	SF	1800	\$1,980.00	SF	1800	\$1,980.00	SF	1800	\$1,980.00			
25	Remove all Window Glass and Panels	SF	1800	\$3,780.00	SF	1800	\$3,780.00	SF	1800	\$3,780.00			
26	Strip steel Window Frames of Paint	SF	1800	\$5,940.00	SF	1800	\$5,940.00	SF	1800	\$5,940.00			
27	Paint Bare Steel Window Frames	SF	1800	\$3,780.00	SF	1800	\$3,780.00	SF	1800	\$3,780.00			
28	Seal Around Steel Window Frames	8 SF	600	\$1,760.00	8 SF	600	\$1,760.00	8 SF	600	\$1,760.00			
29	Replace 1/4" float glass w/ Retention Film	5 SF	12	\$145.20	5 SF	1800	\$21,780.00	5 SF	1800	\$21,780.00			
30	Install Window Putty	SF	1800	\$12,780.00	SF	1800	\$12,780.00	SF	1800	\$12,780.00			
31	Wire Brush Handrails Clean	EA	4	\$3,920.00	EA	4	\$3,920.00	EA	4	\$3,920.00			
32	Repair Baluster Anchor & Re-install	EA	2	\$2,160.00	EA	2	\$2,160.00	EA	2	\$2,160.00			
33	Paint Handrails in-place	EA	4	\$5,560.00	EA	4	\$5,560.00	EA	4	\$5,560.00			
34	Paint Ground Level Metal Access Panels (Ext.)	SF	126	\$2,331.00	SF	126	\$2,331.00	SF	126	\$2,331.00			
35	Strip Ground Level Metal Access Panels	SF	126	\$1,165.50	SF	126	\$1,165.50	SF	126	\$1,165.50			
36	Ter-Polymer Coat Grd. Level Mt Access Panels	SF			SF			SF					
37	Repair Base of Existing Metal Clad Doors	9 EA	4	\$11,000.00	9 EA	4	\$11,000.00	9 EA	4	\$11,000.00			
38	Remove polycarbonate panels at Grd Flr. Windows	EA	3	990	EA	3	990	EA	3	990			
39	Relocate Roof Drains Away from Walls	EA	8	6400	EA	8	6400	EA	8	6400			
40	Change Pitch of Roof Away from the Walls	EA	8	11200	EA	8	11200	EA	8	11200			
41	Replace the Steel Bms. Beneath Screen Windows	EA	2	\$4,000.00	EA	2	\$4,000.00	EA	2	\$4,000.00			
42	Replace Stl. Shims Supporting the Screen Windows	EA	2	\$1,000.00	EA	2	\$1,000.00	EA	2	\$1,000.00			
43	Remove Existing landing cover sealant	LF	22	\$258.40	LF	22	\$258.40	LF	22	\$258.40			
44	Provide / install perimeter cover seal	LF	22	\$378.40	LF	3032		LF	3032				
45	Install new bolts to secure cover	LF	22	\$0.00	SF	40		SF	40				
46	Provide / install Access Door Unit	5 LS			LS			LS					
47	Clear Tower Roof Gutters	LS	4	\$8,000.00	LS	4	\$8,000.00	LS	4	\$8,000.00			
48	Prime & Repaint Interiors	SF	3250	\$3,510.00	SF	3250	\$3,510.00	SF	3250	\$3,510.00			
49	Remove Existing 2nd Acoustical Tile Ceiling	SF	750	\$675.00	SF	750	\$675.00	SF	750	\$675.00			
50	Provide New Lights in Office Area	EA	4	\$3,920.00	EA	4	\$3,920.00	EA	4	\$3,920.00			
51	Refinish Original Building Ext. Light Fixtures	EA	2	\$1,100.00	EA	2	\$1,100.00	EA	2	\$1,100.00			
52	Replicate Original Building Ext. Light Fixtures	EA	2	\$2,800.00	EA	2	\$2,800.00	EA	2	\$2,800.00			
53	Repair Section of Conc. Loose at Edge of Tube	EA	1	\$1,460.00	EA	1	\$1,460.00	EA	1	\$1,460.00			
54	Remove Existing Flag Pole	EA	1	\$600.00	EA	1	\$600.00	EA	1	\$600.00			
55	<b>CONSTRUCTION SUBTOTAL</b>			\$800,690.83			\$1,157,037.19			\$2,407,736.31			
56	<b>HAZARDOUS MATERIAL ABATEMENT SUBTOTAL</b>												
57	Transite Panel Removal:												
58	Floor Tile and Mastix Removal:												\$14,250.00
59	Fiberboard Removal:												\$1,800.00
60	Loose and Flakey Paint Removal Interior:												\$1,600.00
61	Prep Handrallings (4):												\$17,000.00
62	Lattice Removal and Lead Abatement (28): \$7,000.00 (\$250.00/ea)												\$2,800.00
63	Exterior Paint Removal: 60 shifts (see line 9, note 13)												\$7,000.00
64	Contingency (7.5%)	0.075		\$51,107.93	0.075		\$73,853.44	0.075		\$150,848.06			
65	OH&P	0.1		\$68,148.99	0.1		\$96,471.25	0.1		\$201,130.75			
66	<b>TOTAL</b>			\$800,690.83			\$1,157,037.19			\$2,407,736.31			
67	<b>Out-of-Scope Options</b>												
68	Replicate Orig. Ramp Light Fixtures and Install												
69	Replace Operable Window Unit	LS			LS		\$530.00	LS		\$530.00			\$21,600.00

**Notes**

Product Data Sheets for the materials identified below can be found in Appendix E

1. Sealer to be crystal forming negative side sealer as Xypex. (see product data)
2. Concrete synthetic filler to be HT Spall TX or equal
3. Trowel sealant into crack in preparation to painting
4. Average rate; varies by location
5. See products data.
6. Metal Grilles bolt together and should be disassembled for painting.
7. Saturate wood lattices with wood sealer (as Waterborne) prior to painting
8. 100% silicone sealant.
9. Approx. 3" of bottom removed and replaced in kind with sound materials.
10. Latex Enamel.
11. Areas are based on reproduction drawings that are subject to distortion, and are therefore approximations. Areas are though suitable to the purposes of this report.
12. Cost Estimate was developed using California Department of Transportation Contract Cost Data, RS MEANS Repair & Remodeling Cost Data, and URS data
13. fee includes removal of all exterior paint of building including Lead paint removal

**MATERIALS**

**Key Code**

Key Code	Description.	Unit cost
M1	Standard non-asbestos window putty.	\$7.10
M2	1/4" plate glass with a retention film	\$12.10
M3	Synthetic Concrete filler (Xypex)	\$55.00
M5	Ter-polymer elastomeric coating	\$28.00