City of Cordova
Multi-Building Condition Assessment:
Hollis Heinrichs Park Restroom

Prepared For:

Prepared By:

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CITY OF CORDOVA
INCORPORATED 1899

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Anchorage, AK  99501
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1. INTRODUCTION

The City of Cordova engaged Coffman Engineers and Burkhart Croft Architects to assess and report on the condition of City-owned buildings and structures to establish a baseline of their current assets, and better forecast future needs.

The team performed a multi-discipline condition assessment of thirteen facilities including:

1. Bob Korn Memorial Swimming Pool
2. Bidarki Recreation Center
3. Eyak Skater’s Cabin
4. Cordova Jr/Sr High School
5. Odiak Pond Gazebo and Boardwalk
6. Odiak Camper Park Restroom
7. Parks and Recreation Maintenance Shop
8. City Maintenance Shop
9. Ballfield Restroom / Concession Stand
10. Cordova Chamber of Commerce
11. Hollis Heinrichs Park Restroom
12. Flemning Spit Restroom
13. Fire Department Sub Station

The team visited the Prince William Sound Science Center and evaluated the feasibility of relocating the building to a new site.

The team consisted of an architect, civil, structural, mechanical, electrical engineers, and a cost estimator.

Due to the amount of information and quantity of sites, a separate report has been developed for each facility. This report is for the Hollis Heinrichs Park Restroom.

2. EXECUTIVE SUMMARY

The Hollis Heinrichs Park Restroom was evaluated by the team on September 28, 2022. This report provides:

- A description and assessment of the various building components.
- A list of deficiencies, ordered by urgency for repair or correction.
- Rough order of magnitude cost estimate for the listed deficiencies, as well as building replacement.
- A routine and preventative maintenance plan.

The Hollis Heinrichs Restroom is in good condition overall. The siding shows signs of aging but is in serviceable condition. Recommendations for the facility are minor and include Americans with Disabilities (ADA) components in the stalls and a lighting improvement.
3. HOLLIS HEINRICHS PARK RESTROOM

3.1. Description and Summary

The restroom includes a men’s and women’s room, each with a single stall. There is a room between the toilet rooms for storage. The building has hot water and plumbing. It is used seasonally and winterized in the off season.

3.2. Building Component Assessments

3.2.1. Architectural

3.2.1.1. International Building Code (IBC) Summary

Model Code Application

Assessment below is based on the 2021 IBC (current version adopted by the State).

There were no issues with either building construction materials, use, or area found during the inspection. The building is wood framed which puts classification into Type V-B Construction, building area is well below allowable square footage.

Occupancy Groups

Toilet Room Areas: All portions of this facility are designated as an “A” Assembly Occupancy. Stand-alone toilet and locker room facilities are an anomaly in the IBC. Public Toilets are generally considered accessory uses within a facility, but when stand-alone match up to the A Occupancy.

Egress System

The existing egress system is adequate in terms of number of exit points, exiting logic and egress width. There are single doors out of each of the building areas, no existing deficiencies noted.

3.2.1.2. Accessibility / ADA / ANSI A117 Compliance

General

The IBC now references ANSI A117 as the recognized design standard for accessibility concerns. Existing buildings are exempt from current requirements, so long as owners conduct simple and prudent improvements. Full compliance is directly tied to the size and scope of the proposed projects. The International Existing Building Code (IEBC) drives this level of compliance. For example, the facility can be painted and flooring replaced without making the toilet facilities accessible. However, if there was a building addition or major renovation of the facility then the facility would be required to comply. In existing facilities, enforcement of ADA deficiencies is punitive, and if complaints or claims are made against the facility, the City of Cordova might be required to make a Reasonable Accommodation to correct the deficiency for the public requiring accessibility improvements.
**Existing Conditions**

The building has made reasonable accommodations for accessibility. There are small discrepancies in some of the toilet accessories mounting dimensions, but none requiring correction. The approach to the facility is reasonable and the concrete sidewalk is compliant. A vertical grab bar was not installed (a relatively new required of ADA) and one is recommended to be installed.

- *Install new vertical, 18 inch, grab bar.*

3.2.1.3. Building Exterior

The building is clad with a traditional cedar shake throughout is in good condition and no deficiencies were noted. It is starting to show some age, there was the start of some algae growth, but did appear serviceable at time of inspection.

The roofing is a standing seal, exposed fastener roof. From the appearance, it appears this roof was installed recently. No exterior visual deficiencies were noted.

3.2.1.4. Building Interior

**General**

The building interior is in good condition overall.

The toilet floors are exposed concrete and the walls are clad with a plastic reinforced panel. Fixtures are stainless steel. There are both a men’s and women’s single toilet rooms and a mechanical/electrical room connecting them. The building has a small overhang protecting the doors, and pedestrian approach.

The mechanical/electrical building is sheathing with plywood. The plywood itself appears to have heavy water damage. No active water leaks were observed. At this time the assumption is being made that the roof did indeed leak at one point, possibly the same cedar shake was installed at the roof at some point. After the roofing was replaced, the roof leaks were corrected, and the leaks were stopped. This is just an assumption based on our inspection. If facility staff still has issues with water infiltration, some sheathing should be removed at this location to inspect the condition of the wood studs.
Fig. 1. Rear Elevation

Fig. 2. Front Elevation
Fig. 3. Mechanical / Electrical Room

Fig. 4. Typical Toilet Room

Fig. 5. ADA Compliance Graphic
3.2.2. Structural

The Heinrichs Park Restroom is a wood frame, gable roof structure, approximately 24-feet wide by 10-feet deep. A 4-foot roof extension provides cover over the restroom and mechanical room doors at the west gable end.

The building is founded on a flat concrete slab foundation which also serves as entrance floor and supports 4x4 wood posts under the roof extension.

The structure is in good condition, only requiring continued maintenance.

3.2.3. Civil

The Heinrichs Park Restroom facility is located near the entrance to the Odiak Pond boardwalk trail, at 300 Chase Avenue. The restroom is accessed by an asphalt sidewalk and concrete apron.

The Owner stated that the restroom facility is on City water and sewer service and reported no issues with the services. Exterior utilities were not observed as part of this inspection.

The concrete apron at the entrance to the facility is in adequate condition. The restroom entrances and path are not ADA accessible. See architectural for more information on interior accessibility. See Figure 10.

Drainage around the facility appears to be adequate with no indication of ponding or exterior dilapidation due to runoff.
3.2.4. Mechanical

There is no mechanical equipment in this facility.

3.2.5. Plumbing

The building has domestic cold water from the city water supply. There is an electric hot water heater for the lavatories.

3.2.6. Fire Protection

There is no fire protection required in this facility.

3.2.7. Electrical

The facility is served by a 120/240V, single phase, 3-wire electrical service provided by Cordova Electric Co-op. A combination disconnect meter main with two integral disconnect breakers is mounted to the exterior of the restrooms. One breaker is 100A rated, 2-pole and feeds the main panelboard for the facility. The other breaker is 20A rated, single pole. It is unknown what the single pole breaker feeds. It is assumed it feeds the water heater located in the electrical/mechanical room.
There are no arc flash labels on the electrical panels and equipment. It is recommended that an Arc Flash Risk Assessment be performed on power systems for employee safety and compliance with The Occupational Safety and Health Administration (OSHA) regulations. OSHA requires that employers provide a place of employment which is free from recognized hazards that are likely to cause death or serious physical harm to employees. OSHA also requires that employers employ safety-related work practices to prevent electrical shock or other injuries resulting from direct or indirect electrical contact.

The branch circuit panelboard for the facility is located within the electrical/mechanical room. The panel is 125A, 120/240V, single phase, 3-wire rated and appears to be in good condition. Loads for the facility include lighting, receptacles, and the hot water heater.

Lighting for the entire facility appears to be incandescent fixtures, all ceiling mounted. A photocell for control of the exterior lighting was not located.

3.2.8. Deficiencies and Recommendations

The total building replacement cost is $156,322. The total cost of all recommended deficiencies is $11,617.
3.2.9. Phase 1 Code Compliance Recommendations

1. **ADA Accessibility.** Install a new vertical 18-inch grab bar and relocate toilet dispenser in both stalls.
   Estimated Cost: $2,054

3.2.10. Phase 2

2. **Lighting upgrade.** Replace all incandescent lights with ceiling mounted vandal resistant, wet location listed LED light fixtures. This includes replacement of three interior lights and one exterior light. Install a photocell for daylight control of the exterior light fixture.
   Estimated Cost: $6,419

3. **Arc Flash Risk Assessment.** Recommend an Arc Flash Risk Assessment is performed on power systems for employee safety and compliance with OSHA regulations. Install arc flash hazard labels to all panels and equipment per NEC 110.16.
   Estimated Cost: $3,144

**Total cost Phase 2:** $9,600
APPENDIX A – EQUIPMENT CONDITION AND LIFE EXPECTANCY
<table>
<thead>
<tr>
<th>Equipment</th>
<th>Description</th>
<th>Age (yrs)</th>
<th>Life Expectancy (yrs)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric water heater</td>
<td>American Water Heater Company, model unknown</td>
<td>Unknown</td>
<td>15</td>
<td>Unit appears to be in good condition, no visible signs of corrosion.</td>
</tr>
</tbody>
</table>

1. Life expectancy is based on the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) 2019 Applications Handbook, Chapter 38, Table 4: Comparison of Service Life Estimates. These values are based on historical survey data, and are heavily dependent on maintenance, usage, cycling, and application, but form a basis to accompany site observation notes.
APPENDIX B – ROUTINE MAINTENANCE TASKS
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Inspection Task</th>
<th>Maintenance Task</th>
<th>Frequency</th>
<th>Recommended Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Check water pressure.</td>
<td>Verify and adjust for proper pressure.</td>
<td>Monthly</td>
<td>Repair or replace.</td>
</tr>
<tr>
<td>b</td>
<td>Check control water pressure.</td>
<td>Verify and adjust for proper pressure.</td>
<td>Monthly</td>
<td>Repair or replace.</td>
</tr>
<tr>
<td>c</td>
<td>Check thermal expansion tank.</td>
<td>Verify tank is working correctly, pressurized, and no damage.</td>
<td>Monthly</td>
<td>Repair or replace.</td>
</tr>
<tr>
<td>d</td>
<td>Inspect T&amp;P relief valve.</td>
<td>Inspect and verify that valve is functioning properly.</td>
<td>Quarterly</td>
<td>Repair or replace.</td>
</tr>
<tr>
<td>e</td>
<td>Drain and flush tank.</td>
<td>Drain tank and verify water is clean. If milky, drain entire tank and refill.</td>
<td>Annually</td>
<td>Repair or replace.</td>
</tr>
<tr>
<td>f</td>
<td>Check anode rod.</td>
<td>Inspect and verify that anode rod is function and doesn’t have significant damage/wear.</td>
<td>Annually</td>
<td>Repair or replace.</td>
</tr>
</tbody>
</table>
MULTI-BUILDING CONDITION ASSESSMENTS
CONSTRUCTION COST ESTIMATE

CITY OF CORDOVA
HOLLIS HEINRICH'S PARK RESTROOM
CORDOVA, ALASKA

PREPARED FOR:
Coffman Engineering
800 F Street
Anchorage, Alaska 99501

February 8, 2023
NOTES REGARDING THE PREPARATION OF THIS ESTIMATE

DRAWINGS AND DOCUMENTS

Level of Documents: Condition assessment narrative
Date: Undated
Provided By: Coffman Engineers of Anchorage, Alaska

RATES

Pricing is based on current material, equipment and freight costs.

Labor Rates: A.S. Title 36 working 60 hours per week
Premium Time: 16.70% (included with unit rates)
Subcontractor Mark-Up: 35.00%
General Requirements, Overhead, and Profit: 45.00%
Estimator's Contingency: 30.00%
Unique Market Risk: 5.00%
Escalation to Summer 2024 at 7.91% per Annum (16 Months): 10.55%
A/E Design Fee: 12.00%

BIDDING ASSUMPTIONS

Contract: Standard construction contract without restrictive bidding clauses
Bidding Situation: Competitive bid assumed
Start of Construction: Summer 2024
Note: Quantities, qualities, and conditions are assumed when not directly provided in narrative, or obvious from available drawings.

EXCLUDED COSTS

1. Administrative and management costs
2. Furniture, furnishings and equipment (except those specifically included)
3. Remediation of contaminated soils or abatement of any hazardous materials
GENERAL

When included in HMS Inc.’s scope of services, opinions or estimates of probable construction costs are prepared on the basis of HMS Inc.’s experience and qualifications and represent HMS Inc.’s judgment as a professional generally familiar with the industry. However, since HMS Inc. has no control over the cost of labor, materials, equipment or services furnished by others, over contractor's methods of determining prices, or over competitive bidding or market conditions, HMS Inc. cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from HMS Inc.’s opinions or estimates of probable construction cost.

This estimate assumes escalation based on a 12-month rolling average of the U.S. Consumer Price Index. HMS Inc. will continue to monitor this, as well as other international, domestic and local events, and the resulting construction climate, and will adjust costs and contingencies as deemed appropriate.

Due to the lingering effects of the COVID-19 pandemic on the global supply chain and labor market, as well as ongoing geopolitical impacts to energy prices, HMS Inc. has included an additional contingency titled 'Unique Market Risk'. This amount provided for in the estimate will be adjusted as the situation continues to change and the effect on construction pricing becomes better understood.
## CONDITION ASSESSMENT GENERAL COST SUMMARY

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL BUILDING REPLACEMENT</td>
<td>$156,322</td>
</tr>
<tr>
<td>DEFICIENCIES</td>
<td>11,617</td>
</tr>
</tbody>
</table>
## CONDITION ASSESSMENT COST SUMMARY

<table>
<thead>
<tr>
<th>Code Compliance Recommendations</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deficiency 1 - New Grab Bar</td>
<td>$ 2,054</td>
</tr>
<tr>
<td>PHASE 1</td>
<td></td>
</tr>
<tr>
<td>Deficiency 2 - Lights</td>
<td>6,419</td>
</tr>
<tr>
<td>Deficiency 3 - Replace Electrical Panel</td>
<td>3,144</td>
</tr>
<tr>
<td><strong>Total Estimated Construction Cost:</strong></td>
<td><strong>$ 11,617</strong></td>
</tr>
</tbody>
</table>
### TOTAL BUILDING REPLACEMENT

<table>
<thead>
<tr>
<th></th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT RATE $</th>
<th>TOTAL $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demolish restroom</td>
<td>2,000</td>
<td>CF</td>
<td>0.65</td>
<td>1,300</td>
</tr>
<tr>
<td>New restroom</td>
<td>200</td>
<td>SF</td>
<td>220.00</td>
<td>44,000</td>
</tr>
<tr>
<td>Load and haul debris</td>
<td>3</td>
<td>LDS</td>
<td>650.00</td>
<td>1,950</td>
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</tbody>
</table>

**SUBTOTAL:** $47,250

Subcontractor’s Overhead and Profit on Material and Labor 35.00% 16,538

**SUBTOTAL:** $63,788

General Requirements, Overhead, and Profit 45.00% 28,705

Estimator's Contingency 30.00% 27,748

Unique Market Risk 5.00% 6,012

Escalation to Summer 2024 at 7.91% per Annum (16 Months) 10.55% 13,320

A/E Design Fee 12.00% 16,749

**TOTAL ESTIMATED COST:** $156,322
### CODE COMPLIANCE RECOMMENDATIONS

**Deficiency 1 - New Grab Bar**

<table>
<thead>
<tr>
<th>CODE</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT RATE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deficiency 1 - New Grab Bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove and salvage 42&quot; grab bar</td>
<td>2</td>
<td>EA</td>
<td>20.00</td>
<td>40</td>
</tr>
<tr>
<td>Remove and salvage toilet paper dispenser</td>
<td>2</td>
<td>EA</td>
<td>20.00</td>
<td>40</td>
</tr>
<tr>
<td>Remove FRP</td>
<td>64</td>
<td>SF</td>
<td>1.30</td>
<td>83</td>
</tr>
<tr>
<td>Install grab bar blocking</td>
<td>12</td>
<td>LF</td>
<td>3.60</td>
<td>43</td>
</tr>
<tr>
<td>New FRP</td>
<td>64</td>
<td>SF</td>
<td>6.60</td>
<td>422</td>
</tr>
<tr>
<td>Reinstall 42&quot; grab bar</td>
<td>2</td>
<td>EA</td>
<td>35.00</td>
<td>70</td>
</tr>
<tr>
<td>New 18&quot; grab bar</td>
<td>2</td>
<td>EA</td>
<td>50.00</td>
<td>100</td>
</tr>
<tr>
<td>Reinstall toilet paper dispenser</td>
<td>2</td>
<td>EA</td>
<td>20.00</td>
<td>40</td>
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</tbody>
</table>

**SUBTOTAL:** $ 838

General Requirements, Overhead, and Profit 45.00% $ 377
Estimator’s Contingency 30.00% $ 365
Unique Market Risk 5.00% $ 79
Escalation to Summer 2024 at 7.91% per Annum (16 Months) 10.55% $ 175
A/E Design Fee 12.00% $ 220

**TOTAL ESTIMATED COST:** $ 2,054
<table>
<thead>
<tr>
<th>PHASE 1</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT RATE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deficiency 2 - Lights</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demolish fixture</td>
<td>4</td>
<td>EA</td>
<td>$70.00</td>
<td>$280.00</td>
</tr>
<tr>
<td>Exterior LED with photocell, wall mounted</td>
<td>1</td>
<td>EA</td>
<td>$510.00</td>
<td>$510.00</td>
</tr>
<tr>
<td>Wet location LED, ceiling mounted</td>
<td>2</td>
<td>EA</td>
<td>$575.00</td>
<td>$1,150.00</td>
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<td><strong>SUBTOTAL:</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$1,940.00</strong></td>
</tr>
<tr>
<td>Subcontractor's Overhead and Profit on Material and Labor</td>
<td></td>
<td>35.00%</td>
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<td><strong>$679.00</strong></td>
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<tr>
<td><strong>SUBTOTAL:</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>$2,619.00</strong></td>
</tr>
<tr>
<td>General Requirements, Overhead, and Profit</td>
<td></td>
<td>45.00%</td>
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<td><strong>$1,179.00</strong></td>
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<tr>
<td>Estimator's Contingency</td>
<td></td>
<td>30.00%</td>
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<td><strong>$1,139.00</strong></td>
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<tr>
<td>Unique Market Risk</td>
<td></td>
<td>5.00%</td>
<td></td>
<td><strong>$247.00</strong></td>
</tr>
<tr>
<td>Escalation to Summer 2024 at 7.91% per Annum (16 Months)</td>
<td></td>
<td>10.55%</td>
<td></td>
<td><strong>$547.00</strong></td>
</tr>
<tr>
<td>A/E Design Fee</td>
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<td>12.00%</td>
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<td><strong>$688.00</strong></td>
</tr>
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</table>

**TOTAL ESTIMATED COST:** $6,419
## PHASE 1
### Deficiency 3 - Replace Electrical Panel

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT RATE $</th>
<th>TOTAL $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LOT</td>
<td>950.00</td>
<td>950</td>
</tr>
</tbody>
</table>

**SUBTOTAL:** $950

- **Subcontractor's Overhead and Profit on Material and Labor**: 35.00% $333

**SUBTOTAL:** $1,283

- **General Requirements, Overhead, and Profit**: 45.00% $577
- **Estimator's Contingency**: 30.00% $558
- **Unique Market Risk**: 5.00% $121
- **Escalation to Summer 2024 at 7.91% per Annum (16 Months)**: 10.55% $268
- **A/E Design Fee**: 12.00% $337

**TOTAL ESTIMATED COST:** $3,144