



## Angel Island State Park Deferred Maintenance Costs

### **Reconstruct Wind Turbine Power Generator System**

\$7,966,744

Replace existing burned out 240KW generator, remove and replace old wind turbine and tower installation and power grid, and install new controls etc. New generator to be sized to cover the operating needs of the Angel Island SP

### **Stabilize & Paint Exterior Historic 600 Man Barracks**

\$6,300,000

Repair/reinforce foundation/walls, seal cracks and paint building

### **Repair Interior Walls Historic 600 Man Barracks**

\$4,780,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

### **Replace Roof - Historic Mess and Drill Halls**

\$3,936,000

Replace built up roof and gutter/drain system, roof is in arch over gym

<b>Repair Interior Walls and Paint - Historic Mess and Drill Halls</b>	<b>\$3,879,000</b>
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Resurface interior walls as needed, repair floor coverings, replace gym floor, paint walls and ceilings

<b>Repair Interior - Historic NCO Quarters</b>	<b>\$3,200,000</b>
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Resurface interior walls as needed, repair floor coverings, walls and ceilings paint walls and ceilings of 7 buildings

<b>Repair Exterior - East Garrison Hospital</b>	<b>\$2,980,000</b>
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Repair foundation/walls, seal cracks and paint building

<b>Repair Utilities - Historic Post Engineers Office, Shop, and Warehouse Complex</b>	<b>\$2,550,000</b>
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements.

<b>Repair Interior - Historic Post Engineers Office, Shop, and Warehouse Complex</b>	<b>\$2,540,000</b>
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Repair Exterior - Historic Mess and Drill Halls</b>	<b>\$2,510,000</b>
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Repair foundation/walls, seal cracks and paint building

<b>Repair Exterior - Historic Post Engineers Office, Shop, and Warehouse Complex</b>	<b>\$2,500,000</b>
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Repair foundation/walls, seal cracks and paint building

<b>Repair Interior - Historic NCO Quarters - W. Garrison</b>	\$2,380,000
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings of 9 buildings

<b>Replace Roof - Historic 600 Man Barracks</b>	\$2,343,000
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Replace roof and gutter/drain system

<b>Repair Utilities Historic 600 Man Barracks</b>	\$2,215,000
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

<b>Replace Roof - Historic Post Engineers Office, Shop, and Warehouse</b>	\$2,196,896
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Replace roof, replace rafters, sheathing and felt/rolled roofing and gutter/drain system

<b>Repair Utilities - Historic Mess and Drill Halls</b>	\$2,009,000
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements, and kitchen equipment

<b>Repair Interior - North Garrison Historic Hospital</b>	\$1,980,000
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Repair Utilities - East Garrison Historic Hospital</b>	\$1,827,000
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Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements

**Restore Historic Quarters #10**

\$1,807,000

Ground-up restoration of historic wooden building

**Repair Exterior - Historic NCO Quarters**

\$1,750,000

**Repair Interior Walls and Paint - East Garrison Historic Hospital**

\$1,743,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Roof Repairs - Historic NCO Quarters - East Garrison**

\$1,560,000

Replace rafters, deck, and roofing system in like kind

**Sewer Repairs**

\$1,500,000

**Repair Utilities - Historic NCO Quarters**

\$1,455,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Repair Interior Walls - West Garrison Historic Hospital**

\$1,450,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings, remove mcm

**Repair Exterior - Historic Finance & Signal Office**

\$1,400,000

Repair foundation/walls, seal cracks and paint building

**Repair Exterior - Historic NCO Quarters - W. Garrison**

\$1,278,000

Repair foundation/walls, seal cracks on 9 buildings

**Repair Utilities - West Garrison Historic Hospital**

\$1,278,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements

**Restore Historic Shaffer House**

\$920,000

Ground-up restoration of historic wooden building

**Replace Roofing - Historic Shop Complex**

\$885,000

Replace rafters, deck, and roofing system in like kind

**Repair Utilities - Historic NCO Quarters - W. Garrison**

\$860,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements and controlled temp system

**Repair Exterior - North Garrison Historic Hospital**

\$840,000

Repair foundation/walls, seal cracks and paint building.

**Repair Utilities - North Garrison Historic Hospital**

\$798,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

<b>Repair Interior - Historic Engineers Paint Shop</b>	<b>\$792,000</b>
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Replace West Garrison Waterline</b>	<b>\$763,096</b>
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Replace w/ PVC and bury currently exposed steel water line

<b>Repair Roof - Historic Fourplex Unit 8-11</b>	<b>\$746,496</b>
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Clean repair and seal tile roof and gutter/drain system

<b>Repair Roof - Historic Fourplex Unit 12-15</b>	<b>\$746,496</b>
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Clean repair and seal tile roof and gutter/drain system

<b>Repair 7 Lift Stations</b>	<b>\$721,796</b>
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Repair (7) sewage lift stations that are in very poor condition. These lift stations are located near the San Francisco Bay and this should be a very high priority project

<b>Chip-seal Unit Roads</b>	<b>\$687,340</b>
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Chip seal approximately 10 miles of road on Angel Island

<b>Replace Roof - East Garrison Historic Hospital</b>	<b>\$680,000</b>
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Replace roof and gutter/drain system

<b>Replace Roof - Historic Motor Pool</b>	<b>\$668,000</b>
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Replace rafters, deck, and roofing system in like kind

**Replace Roof - Historic Engineers Paint Shop**

\$664,000

Replace rafters, sheathing, roof system, and gutter/drain system

**Repair Interior - Historic Fourplex Unit 1-4**

\$655,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Utilities - Historic Motor Pool**

\$630,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements, and repairs to existing auto hoist, compressed air, and other shop systems

**Historic Spanish Tile Roof System Repairs - East Garrison**

\$600,000

Provide repair crew to repair existing historic Spanish tile roof system on the multiple buildings of East Garrison. Approximately 80,000 SFT (800SQ) at rate of \$750 per SQ via contract or causal labor crew

**Repair Interior - Historic Fourplex Unit 8-11**

\$585,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Exterior - Historic Engineers Paint Shop**

\$558,000

Repair walls, seal cracks and paint/seal building

<b>Replace Roof - Half Million Gallon Water Tank Roof</b>	<b>\$544,858</b>
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Replace rapidly failing rotten roof over 500,000 gallon drinking water tank with like kind roof new roof to be exact match for existing roof which may be historic.

<b>Replace Coast Guard Well Supply Line</b>	<b>\$537,920</b>
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Replace approximately .75 miles of 4x94 water line from the existing Coast Guard well to the million gallon water tanks. Existing feeder line is rusted out and is 90 years old.

<b>Replace Roof - Historic Administration Building</b>	<b>\$536,896</b>
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Replace roof and gutter/drain system

<b>Replace Roof - Historic Post Exchange - East Garrison</b>	<b>\$521,536</b>
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Replace roof and gutter/drain system - Asbestos issues

<b>Repair Interior - Historic Fourplex Unit 12-15</b>	<b>\$500,000</b>
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Repair Interior - Historic Post Exchange - E. Garrison</b>	<b>\$499,000</b>
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Repair Utilities - Historic Engineers Paint Shop</b>	<b>\$488,000</b>
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Repair Utilities Historic Administration Building**

\$480,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements

**Repair Exterior - West Garrison Historic Hospital**

\$475,000

Repair minor foundation cracks, repair/repoint brick walls, seal cracks and paint building

**Repair Utilities - Historic Fourplex Unit 12-15**

\$460,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Repair Exterior - Historic Post Exchange - E. Garrison**

\$458,000

Repair minor foundation/wall cracks and paint building

**Replace Existing Outhouses**

\$450,496

Replace 5 each 20 to 30 year old worn-out outhouses with new concrete CTX style pre-fab out houses.

**Rehab Historic Machine Shop Exhibits - Historic Post Engineers Complex**

\$450,000

Rehab historic machine shop exhibits

**Repair Interior - Historic Boiler Plant - N. Garrison**

\$450,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings, clean and seal boilers, paint stacks/metal work

**Repair Exterior - Historic Shafter House - W. Garrison**

\$448,000

Repair foundation/walls, seal cracks and research colors paint building

**Replace Roof - West Garrison Historic Hospital**

\$435,000

Replace tile roof and gutter/drain system

**Repair Utilities - Historic Fourplex Unit 1-4**

\$430,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Repair Interior Walls - Historic Residence # 3 Ayala Cove**

\$425,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Roof - Historic Officers Row # 6**

\$420,896

Clean repair and seal tile roof and gutter/drain system

**Repair Roof - North Garrison Historic Hospital**

\$418,800

Clean, repair, and seal shingle roof and gutter/drain system

**East Garrison Ferry Float Haul Out and Dry Docking**

\$414,496

Sandblast rusted out dock to near white metal, repair rust damage & prime, paint & coat w/ anti foul paint, install new zincs. ADA Ramp: Repair system, damage, and corrosion and to ramp/dock attachments. The dock is presently out of service due to its b

**Repair Worn Out Watering System And Historic Landscape Officers Row**

\$405,520

Replace non-operative system with modern automatic system

**Bring Fire Hydrants to Code x96 Unit Wide**

\$399,675

Upgrade all fire hydrants to current National Fire standard. Current many of the parks hydrant are not compatible with national standards and make many hydrants unusable during a fire. With out proper connection a fire will spread causing serve damage to

**Replace Leaking Rotten Ayala Cove Water Tank x96 50K Gal**

\$398,780

Replace the existing worn out and leaking RW water tank with a welded (seamless) Stainless Steel 50K gallon tank x96 Cover new SS tank with redwood to simulate rustic wood look.

**Repair Interior Walls and Paint - Historic Administration Building**

\$398,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Utilities - Historic Fourplex Unit 8-11**

\$388,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Repair Utilities Historic Post Exchange - East Garrison**

\$380,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements

**Repair Interior - Historic Shafter House - W. Garrison**

\$380,000

Resurface interior walls as needed, repair floor coverings, research colors, paint walls and ceilings

**Replace Roof - Historic East Quartermaster Office & Warehouse**

\$370,000

Install felt and rolled roof and gutter/drain system - Heavy asbestos involved

**Repair Exterior - Historic Barracks # 241**

\$370,000

Repair foundation/walls, seal cracks and paint building

**Prepare Historic Structure Reports - East Garrison**

\$360,000

Prepare historic structure reports

**Document and assess & Remove Collapsed Building - Historic Barracks # 242**

\$358,946

This building has fallen down completely and is a total loss and serious hazard to the public. This project would record any information possible and clear and dispose of rubble. Foundations will be filled with earth to seal them in and make them safe t

**Repair Utilities - Historic Boiler Plant - N. Garrison**

\$356,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements, includes flushing and plumbing boilers

**Repair Interior - Historic Barracks # 241**

\$355,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Exterior - Historic Officers Row # 5**

\$354,296

Repair/seal cracks, foundation/walls, and repaint - Asbestos present

**Reroof Historic Immigration Station Boiler Plant**

\$350,000

Replace roofing system in like kind

**Repair Utilities - Historic Barracks # 241**

\$350,000

Repair/replace water, sewer, electrical service and fixture as needed or to code

**Relocate Vis Staff x96 Add Exhibits**

\$350,000

Visitor Center/Cove upgrade - Relocated ranger office to new office space on dock to be provided by this project, expand existing visitor center into ``old`` ranger space- upgrade facility and exhibits. All to meet ADA requirements.

**Re-roof Cove Residence # 1 with Proper Roofing**

\$348,989

Remove non historic x93Artisticx94 home made shingles of 90 LB felt via licensed asbestos contractor. With a roofing contractor sheath building roof deck with 5/8x92 CDX plywood, 30 LB felt and fire-rated wood shingles to closely copy correct historic material

**Repair Interior - Historic Motor Pool**

\$345,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Utilities - Historic Officers Row # 5**

\$345,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code,

**Repair Utilities - Historic Officers Row # 7**

\$345,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Cove Restroom Repairs**

\$340,000

Cove restroom repairs including ADA modifications.

**Repair Roof - Historic Officers Row # 5**

\$340,000

Clean repair and seal tile roof and gutter/drain system

**Replace Roof - East Garrison Historic Storehouse**

\$339,496

Replace roof and gutter/drain system

**Repair Interior - Historic Officers Row # 7**

\$335,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Upgrade Public Service Telecom Line**

\$310,250

Install conduit from pedestal site to Ayala Cove and install high speed fiber optic cable to establish pay phone system and internet access for park visitors of the cove.

**Repair Exterior - Historic Motor Pool**

\$305,000

Repoint stone walls, seal cracks and paint/seal building

**Repair Exterior- Historic Fourplex Unit 8-11**

\$305,000

Repair/seal cracks foundation/walls, and repaint building

**Repair Roof - Historic Officers Row # 7**

\$300,000

Clean repair and seal tile roof and gutter/drain system

**Repair Utilities - Historic Kitchen and Mess Hall - N. Garrison**

\$295,000

Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements and kitchen appliance

<b>Repair Utilities - Historic Officers Row # 6</b>	<b>\$295,000</b>
Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements	
<b>Repair Interior - Historic Officers Row # 5</b>	<b>\$295,000</b>
Resurface interior walls as needed, repair floor coverings, paint walls and ceilings	
<b>Restore Historic Landscaping</b>	<b>\$288,750</b>
Research proper plants and landscape to period correct all residences. Includes timed watering systems and removal of non-native or periodically improper plants/trees.	
<b>Repair Exterior - Historic Boiler Plant - N. Garrison</b>	<b>\$288,000</b>
Repair foundation/walls, seal cracks and paint building	
<b>Quarry Beach Reforesting x96 Mitigation of Non-Native Removals</b>	<b>\$285,750</b>
Approximately 10 acres of Eucalyptus forest was removed at this location. A huge slide followed off the entire roadway. This project would re-plant the hills above and below with native grasses/trees via hand crews. Drainage and shoulder will be repaired	
<b>Emergency Covering of Broken Windows, Unit wide</b>	<b>\$280,000</b>
Install 3/8`` CDX plywood over broken windows, Unit wide	



**Study & Remove Collapsed Building - Historic Finance & Signal Office**

\$272,496

This building has fallen down completely and is a total loss and serious hazard to the public. This project would record any information possible and clear and dispose of rubble. Foundations will be filled with earth to seal them in and make them safe t

**Perles Beach Slide Area Mitigation of Non-Native Removals**

\$268,500

A major removal project on non-native Eucalyptus forest has caused a huge slide. This project will bulldoze the area to stabilize it and replant with a mixture of fast growing native trees and grasses before the slide progresses further. Project to be d

**Repair Interior Stairs Historic Quartermaster Warehouse - W. Garrison**

\$268,000

Replace missing stairs to upper floors, repair and seal upper wall, floor and ceiling surfaces and re-point all bricks on exterior, clean, service, repair roof

**Replace Roof - Historic Barracks # 241**

\$265,000

Install roof and gutter/drain system. Roof has a hole in it.

**Nike Area Mitigation of Non-Native removals**

\$256,500

A non-native ice-plant removal cased major damage x96 7 acre hillside area is sliding away. Project is to replant with native species (trees/grasses) via hand crews to hold area together and to restore earthwork/road shoulders as needed

<b>Replace Roof - Historic Residence # 3 Ayala Cove</b>	<b>\$256,000</b>
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Replace roof and gutter/drain system

<b>Repair Exterior - Historic Officers Row # 7</b>	<b>\$255,000</b>
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Repair foundation/walls, seal cracks

<b>Repair Exterior - Historic Fourplex Unit 12-15</b>	<b>\$255,000</b>
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Repair/seal cracks, foundation/walls, repaint

<b>Replace Main Cove Water Service Line</b>	<b>\$247,568</b>
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Replace water lines in Ayala Cove from Tank approximately 2000 feet- line is old and continuously breaks. When making repairs entire cove needs to be shut off due to lack of valves. The visitor center, offices, residences and concessionaire are affected.

<b>Camp Reynolds - Sesquicentennial</b>	<b>\$245,780</b>
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1861 - 2011 Sesquicentennial - 1. Historic Structures Report, 2. Cultural Landscape, 3. Interpretive Master Plan

<b>Repair Exterior - Historic Officers Row # 6</b>	<b>\$245,000</b>
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Repair/seal cracks in concrete foundation/walls, repaint

<b>Repair Interior - Historic Kitchen and Mess Hall - N. Garrison</b>	<b>\$244,000</b>
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Exterior Historic Administration Building****\$240,000**

Repair/seal cracks in foundation/walls, and paint building

**Immigration Station Reforesting.****\$234,650**

The existing Eucalyptus forest above the Immigration Station was removed as non-native, approx 8 acres. If this steep slope is not replanted it is possible the hillside may slide into the immigration station and damage it badly. Project is to replant with native species

**Replace Irrigation System - Historic Ballfield****\$232,936**

Install automatic controlled watering system, replace sod

**Paint Historic Residence # 3 - Ayala Cove****\$230,000**

Clean, prep and re-paint as existing historic residence # 3. Lead containment issue.

**Rehab Sewer Plant Tanks****\$228,450**

Sewer plant tanks were replaced in x9298 due to rust contaminating the water iron readings. This project will sandblast the old tanks then galvanize and re-install them. Project will include new bearings, bushings and other consumable appurtenances

**Haul-Out Main Ferry Float****\$227,920**

Dry dock, clean, sand blast as needed and repaint float. Replace bullhorn pads, and zinc's

<b>Double Chipseal Mt Livermore Road</b>	\$225,000
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Pull roadsides, seal cracks, repair multiple potholes, apply double chipseal to roadway

<b>Replace Roof Pt. Blunt Missile Assembly Building</b>	\$221,096
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Replace tar/gravel roof in like kind - Asbestos issues

<b>Exterior Repairs, Historic North Garrison Duplex</b>	\$213,457
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Abate lead, repair clapboard walls and facades, seal, and paint historic Duplex n garrison units 12 &13

<b>Repair Exterior Historic Residence # 3 Ayala Cove</b>	\$205,000
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Re-point stone foundation/walls, seal cracks and paint building

<b>Replace Ground Cover and Water System - Historic Parade Grounds - E. Garrison</b>	\$205,000
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Replace ground cover and replace worn out watering system with automatic watering system

<b>Repair Utilities - Historic Residence # 3 Ayala Cove</b>	\$200,000
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Repair/replace water, sewer, electrical service and fixtures as needed or to code, this includes ADA requirements

<b>Foundation Repair x96 Historic North Garrison Duplex</b>	\$198,480
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Repair foundation at North Garrison Duplex units 12&13. Exiting foundation is failen and wooden joists are rotten

<b>Repair Utilities Historic Shafter House - W. Garrison</b>	<b>\$195,000</b>
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements.

<b>Monterey Pine Control</b>	<b>\$193,500</b>
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Maintain integrity of native communities threatened by Monterey pine invasion

<b>Reroute and Rebuild - Bayview Trail</b>	<b>\$192,000</b>
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Reroute washed away areas, and repair the rest of trail to DPR standards

<b>Repair Turf Area - Ayala Cove</b>	<b>\$191,496</b>
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Replace lawn and sprinkler system.

<b>Vegetation Removal near Historic Structures</b>	<b>\$189,920</b>
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The removal of vegetation grass, shrubs, and trees from around structures to provide fire protection.

<b>Kayak Camp Slide Area Mitigation of Non-Native Removals</b>	<b>\$180,000</b>
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The Kayak Camp area is sliding away due to removal of Eucalyptus forest. Approx 3 acres. This project will replant the area with native trees and bushes and re-route the fire road/trail away from the growing slide area. Work will be done by hand

<b>Repair Bath And Porch - Historic Residence # 1 - Ayala Cove</b>	<b>\$175,000</b>
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Rehab bathroom and porch of historic building

**East Garrison Historic Structures Inventory**

\$172,000

Develop inventory and management/restoration plan

**Repair Interior - Historic Horse Barn & Laundry - N. Garrison**

\$165,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Utilities - Historic Horse Barn & Laundry - N. Garrison**

\$163,000

Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements

**Prepare Historic Structure Reports - North Garrison**

\$160,000

Prepare historic structure reports

**East Garrison VC Interpretation**

\$150,000

Update current exhibits and refurbish room that contains exhibitory

**Repair Exterior - Historic Horse Barn & Laundry - N. Garrison**

\$146,000

Repair/seal cracks foundation/walls, and paint building

**Finger Pier Repairs/Maintenance**

\$142,046

Treat wood, replace floats as needed, service remainder, replace bumpers, service bolts and other metal parts.

<b>Reset Well # 5</b>	\$141,250
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The Head of well number # 5 is currently set below grade. Rainwater floods the well head and pump. This project will raise the well head, re-seal it to code and install a shed to protect the well head.

<b>Repair Interior - Historic Chapel/Schoolhouse - W. Garrison</b>	\$140,000
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Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

<b>Stabilize &amp; Paint Exterior Historic Chapel/Schoolhouse - W. Garrison</b>	\$135,500
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Repair foundation/walls, seal cracks and paint building.

<b>Repair Utilities Historic Chapel/Schoolhouse - W. Garrison</b>	\$135,000
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Repair/replace water, sewer, electrical service and fixture as needed or to code, this includes ADA requirements.

<b>Foundation Repair Historic Maintenance Shop Building</b>	\$132,296
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Replace in kind failing shop foundation

<b>Ayala Cove #3 Foundation Stabilization and Repair</b>	\$131,750
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Repair and stabilize the foundation of historic residence #3 in Ayala Cove.

<b>Concrete Debris Removal x96 Ayala Cove</b>	\$130,000
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Remove old concrete anchors in Ayala Cove- these are the old anchors of the former buoy system- Est. cost from contractor on 8-8-06 is \$100,000. They weight several tons each.

**Nike Missile Launch Site Landscape Restoration**

\$128,000

The Nike Missile Site originally had a chain-link fence surrounding it, but over the years the fence has been reduced to only a few remnants. Project would replace the fence, thereby restoring the cultural landscape to the period and providing added security.

**Blue and Gold Ferry Service Float Haul Out and Dry Docking**

\$123,000

Sandblast rusted out dock to near white metal, repair rust damage & prime, and re-paint & coat w/ anti foul paint, install new zincs. Repair ramp system as needed. This should be done every 4 - 6 years.

**Install Tile On 6 Restroom Floors**

\$120,000

Install tile on 6 restroom floors.

**Historic Buildings Condition Survey**

\$120,000

Initial condition survey, East Garrison buildings; determine prioritized stabilization needs, condition problems, restoration potential, potential HSR complexity.

**Paint Exterior - East Garrison Historic Chapel**

\$116,554

Prep building, seal in lead paint, and paint in like color paint.



**National Register of Historic Places Update**

\$111,000

Angel Island was listed on the National Register of Historic Places in 1970. The existing documentation related to that nomination is inadequate for project environmental review. An updated report will include delineated boundaries, an expanded historic

**Repair Watering System And Historic Landscape - E. Garrison Jail**

\$108,000

Replace worn out watering system with automatic drip system

**East Garrison Cell Block Interpretation**

\$107,896

Develop and install interpretive displays for the cell block portion at the East Garrison Visitor Center

**Rehab Interior, Historic Mule Barn**

\$107,000

Repair floor and interior walls, re-paint and enclose area for cannon artifact exhibit and storage, rewire electrical to code

**Rehab Nike Missile Site**

\$106,000

Remove log deck, clear brush, clean soil slit, prep and repaint missile decks and other fixtures, research and have re-printed proper decals for the period

**Park Operations Float Haul Out and Dry Docking**

\$98,000

Sandblast rusted out dock to near white metal, repair rust damage & prime, and re-paint & coat w/ anti foul paint, install new zincs. Repair ramp system as needed. This should be done every 4 - 6 years.

**Repair Interior - Historic Mule Barn - W. Garrison**

\$97,000

Re-point foundation, paint/seal all interior surfaces

**Porch Replacement Ayala Cove #3**

\$95,326

Replace existing porch on historic residence #3 in Ayala Cove, the deck boards and girders are deteriorating.

**Develop and Implement Pest/Vector Control Program**

\$95,000

Develop and implement rodent control program in several buildings

**Environmental Campsite Repairs - East Garrison**

\$91,432

Rehab campsites and replace park furniture, replace water supply system

**Abate Lead and Repaint Firehouse**

\$87,896

Abate lead paint, seal building, prime and repaint

**Telemetry System Replacement**

\$86,700

Replace and upgrade the telemetry system for the Angel Island sewage system controls.

**Catalog New Fire Artifacts**

\$86,350

The massive Angel island fire laid the grounds bare and rendered a huge amount of artifacts. This project will study and record those items.

**Abate ACM and Replace Roof, Point Blunt Duplex**

\$83,000

Remove asbestos concrete shingle roof, sheath with 5/8" plywood and install 3 tab wind rated comp shingle roof system

**Battery Drew Area Mitigation of Non-Native removals**

\$78,000

A non-native ice-plant removal caused major damage x96 5 acre hillside area is sliding away. Project is to replant with native species (trees/grasses) via hand crews to hold area together and to restore earthwork/road shoulders as needed.

**Remove Environmental Hazard Concrete Anchors Ayala Cove Sea Floor**

\$76,896

Remove and dispose of 27 approximately 1 ton sized concrete block anchors left on sea floor of Ayala Cove that pose an environmental hazard.

**Replace Interpretive and Informational Panels - Perimeter Road**

\$76,000

Replace 15 panels and shelters

**Re-point Historic Quartermasters Warehouse Brick walls, West Garrison**

\$75,000

Clean and repoint exterior brickwork.

<b>Replace Boat Mooring</b>	\$73,096
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Re-install 10 overnight moorings at Winslow Cove and 20 north of Quarry Point.

<b>Replace Near Totally Failed Firehouse Sewage Line</b>	\$68,988
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Replace old and over 200 ft of broken/leaking sewage line with a new line 35 feet straight to mainline at firehouse

<b>Repair Historic Interior Substation - E. Garrison</b>	\$68,000
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Resurface interior walls and ceilings, replace floor covering, paint interior, repair electrical and restroom fixtures. Facility used for special events (wedding brides room).

<b>Stabilization and Protection of Marin - 43, Archeological Site</b>	\$67,676
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Project will assess and evaluate the site and make recommendations for its stabilization and treatment.

<b>Repair Roof - Historic Horse Barn &amp; Laundry - North Garrison</b>	\$67,000
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Clean, seal, repair roof and gutter/drain system

<b>Survey Historic Buildings East &amp; West Garrisons</b>	\$65,000
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Survey the buildings in these locations to establish a plan. This will assist us in planning restoration work

<b>Hazard and Junk Removal, Island-wide</b>	\$65,000
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Contract out removal of years of military debris, metal pipe, etc., wooden debris, and Haz-Mat storage. Use various contractors as is the case per item. Will try to recycle as much as possible. Will use CCC hand crews for loading simple common debris

**Repair Visitor Center Sales Room - East Garrison**

\$63,772

Repair sales room inside museum including sales displays

**Paint Historic Sub-Station - East Garrison**

\$61,096

Prep building, seal in lead paint, and paint in like color paint.

**Replace Roll Up Door, Windows and Frames Missile Assembly Building.**

\$60,000

Replace in kind roll up door and windows and frames

**Rehab Pt Campbell to Mt. Livermore Trail**

\$60,000

Replace interpretive panels and numbered posts, rehab trail tread, and re-develop interpretive brochure "Cove to Crest" for the trail

**Angel Island SP Exotic Plant Removal in Angel Fire Burn Area**

\$60,000

Remove exotic plants from Angel Island including broom, thistle, ice plant, pampas grass, harding grass, eucalyptus, and Monterey pine from the 303 acres burned in 2008.

**Angel Island Coastal Scrub Planting**

\$60,000

Establish through planting, a native coastal scrub plant community on sites from which eucalyptus have been removed, thereby eliminating thistle occupation.

**Repairs 3 Historic Battery's**

\$58,000

Clean and seal concrete, repair/recondition and paint doors to batteries Drew, Ledyard and Wallace

**West Garrison Historic Structures Inventory**

\$56,000

Develop inventory and management plan for historic buildings

**Replace Outdated Orientation Videos**

\$55,000

Replace orientation videos developed in `83 for Ayala Cove and East Garrison visitor centers with a modern program using modern methods of video production and meeting ADA codes such as closed -captions, script, story board etc.

**Repair Historic Rock Crusher**

\$54,000

Clean and seal wood, clean and prime/paint metal to preserve rock crusher

**Paint Missile Assembly Building**

\$53,540

Prep building, seal in lead paint, and paint in like color paint.

**Historic Structure Report West Garrison Officer`s Housing**

\$50,000

Record and evaluate the fabric of the building(s), including a condition assessment of same, and archival research to document the history of the structure.

**Replace Ground Cover E. Garrison Chapel**

\$50,000

watering system

**Mount Livermore Interpretive Panels**

\$50,000

Replace Interpretive Panels

**Eucalyptus Site Restoration: Native Plant Establishment**

\$48,000

acres, establish native shrub and tree populations on 60 acre removal site

**Repair Utilities - Historic Storehouse**

\$48,000

Repair/replace water, electrical service and fixtures as needed or to code requirements

**Slurry Seal from Dock Perimeter Road**

\$46,329

Slurry Seal from Dock restrooms in main Cove to top of route to Perimeter Road with Cal-Trans 37-2 spec slurry and sand mix

**Paint Garbage Compactor Storage Building (Historic)**

\$45,500

Prep building, seal in lead paint, and paint in like color paint.

**Angel Island SP Italian Thistle Removal**

\$45,000

Remove highly invasive Italian thistle plants from coastal prairie and oak woodland habitats threatened by thistle invasion, using mowing and chemical treatments.

**Prepare Historic Structure Reports - Ayala Cove**

\$40,000

Prepare historic structure reports

**Repair Exterior - Historic Tool House - N. Garrison**

\$40,000

Repair foundation/walls, seal cracks and paint building

**Angel Island Vegetation Management Plan**

\$40,000

Preparation of a Vegetation Management Plan for Angel Island including GIS documentation of exotic plant removal and native plant restoration needs.

**Repair Utilities - Historic Toolhouse - N. Garrison**

\$39,400

Repair/replace water and electrical service and fixtures as needed or to code.

**Repair Exterior - Historic Storehouse**

\$38,000

Repair foundation/walls, seal cracks and paint/seal building

**Replace Roof - North Garrison Pump House**

\$36,096

Replace entire deck, rafters and roofing system

**Maintain Grassland/Scrubland: French Broom Control, Phase II**

\$35,000



Treat broom stands not included in yearly routine maintenance program

**Replace Floor Coverings, Pt Blunt Duplex**

\$35,000

Abate asbestos tile and replace approx. 150 total SQ Yards of linoleum and carpet per side of duplex

**Replace Roof - Historic Toolhouse - North Garrison**

\$35,000

Replace roof and gutter/drain system

**Service Camp Improvements**

\$33,440

Update service camp facility

**Repair Interior - Historic Toolhouse - N. Garrison**

\$29,500

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Repair Gutters x96 Historic North Garrison Duplex**

\$27,650

Repair historic redwood rain gutters North Garrison Duplex units 12&13. new gutters need to be hand made and lined on the inside with galvanized sheet metal.

**Install Dust Recovery and Air Venting System, Shop Complex**

\$25,600

Install a central self contained, 2 stage dust collection system and air venting fan system in shop facility

**Repair Interior - Historic Storehouse**

\$25,000

Resurface interior walls as needed, repair floor coverings, paint walls and ceilings

**Mount Livermore Exotic Plant Control**

\$25,000

Control of exotic plant invasion on the restored Mt. Livermore

**Update Visitor Center Exhibits - Ayala Cove**

\$25,000

Update visitor center exhibits - Develop Interpretive Plan, develop specs in order upgrade/refurbish visitor center.

**Angel Island SP Coyote Brush Removal/ Coastal Prairie Enhancement**

\$20,000

Remove coyote brush from coastal prairie to enhance native perennial grasses and forbs that would be lost due to brush invasion.

**Prepare Historic Structure Reports - Gun Batteries**

\$15,000

Prepare historic structure reports

**Exotic Plant Inventory**

\$15,000

Inventory exotic plant populations that have control potential, prepare maps to be used during routine maintenance assessments.

**Ayala Cove Interpretive Panels**

\$7,500

Improve Interpretive Panels Ayala Cove

**Total**

\$122,930,038