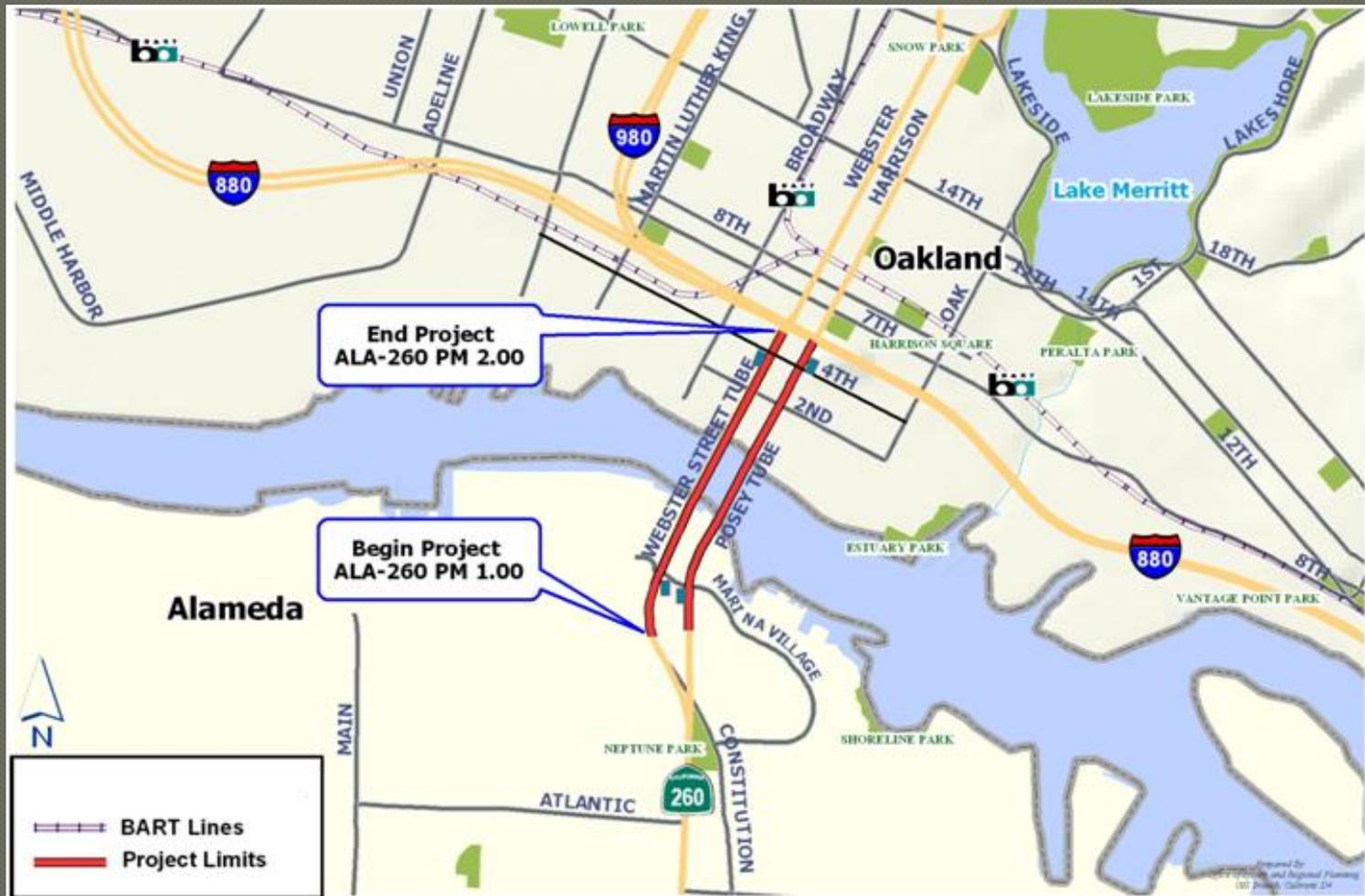


Update on the Posey/ Webster Tubes Rehabilitation Project Ala-260 in the Cities of Alameda and Oakland

Presented by Michael Nguyen,
Project Manager
June 26, 2013



Location Map





Need for Project

- The Webster and Posey Tubes and the Posey Tube portal buildings are in need of repairs
- Portal building surfaces, structural members, roofs and interiors are damaged
- Guardrails in the Tubes are damaged



Project Purpose

- Extend the service life of the structures (buildings and tubes)
- Continue to serve the structures' safety and operational purpose for motorists, cyclists, pedestrians, and Caltrans Maintenance staff
- Rehabilitate the structures while reinforcing the values that make them culturally significant



Alameda Portal Building - Interior spalls and structure damage

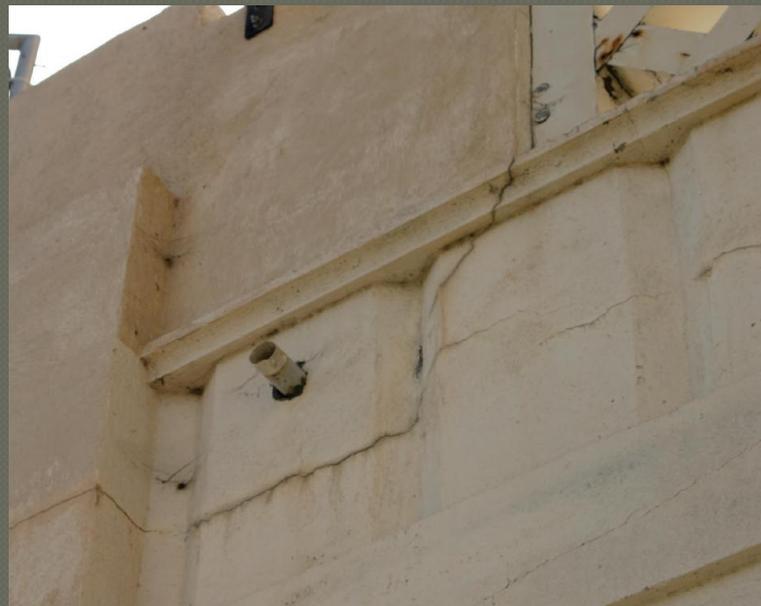


Alameda Portal Building - Interior spalls and structure damage





Alameda Portal Building - Exterior Cracks and Damage





Alameda Portal Building - Exterior Cracks and Damage





Posey Tube - Damaged Guardrail and Belt Course

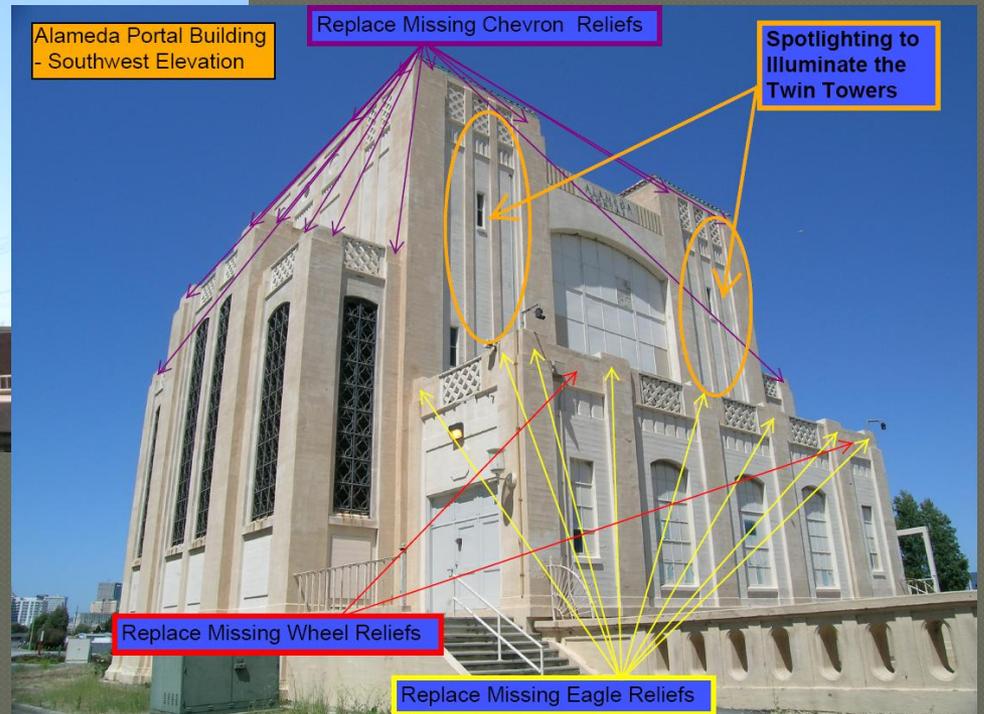
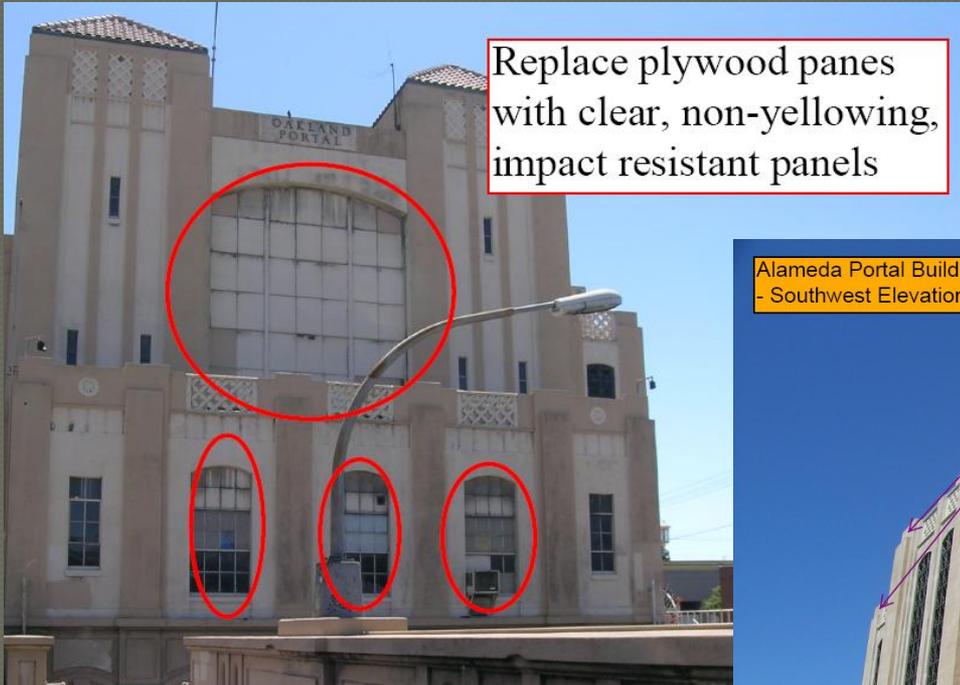




Scope of Work

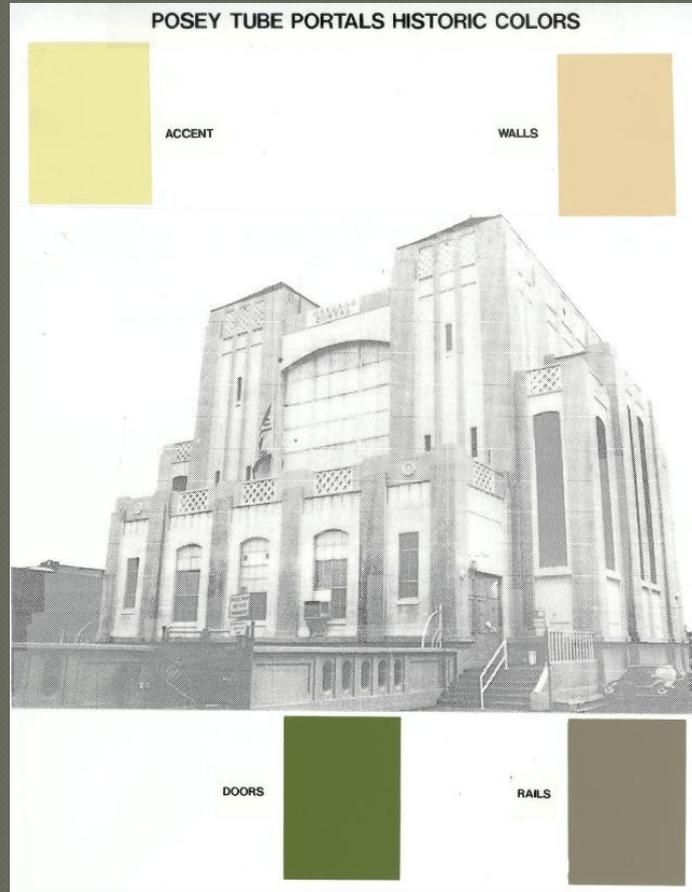
- Repair the Posey buildings interior and rehabilitate the buildings exterior
- Guardrail replacement and sidewalk repair
- Installation and restoration of lighting outside the tubes
- Install Closed Circuit TV (CCTV) cameras
- Improve signage at the entrance to the Posey Tube

Rehabilitate Building Exterior



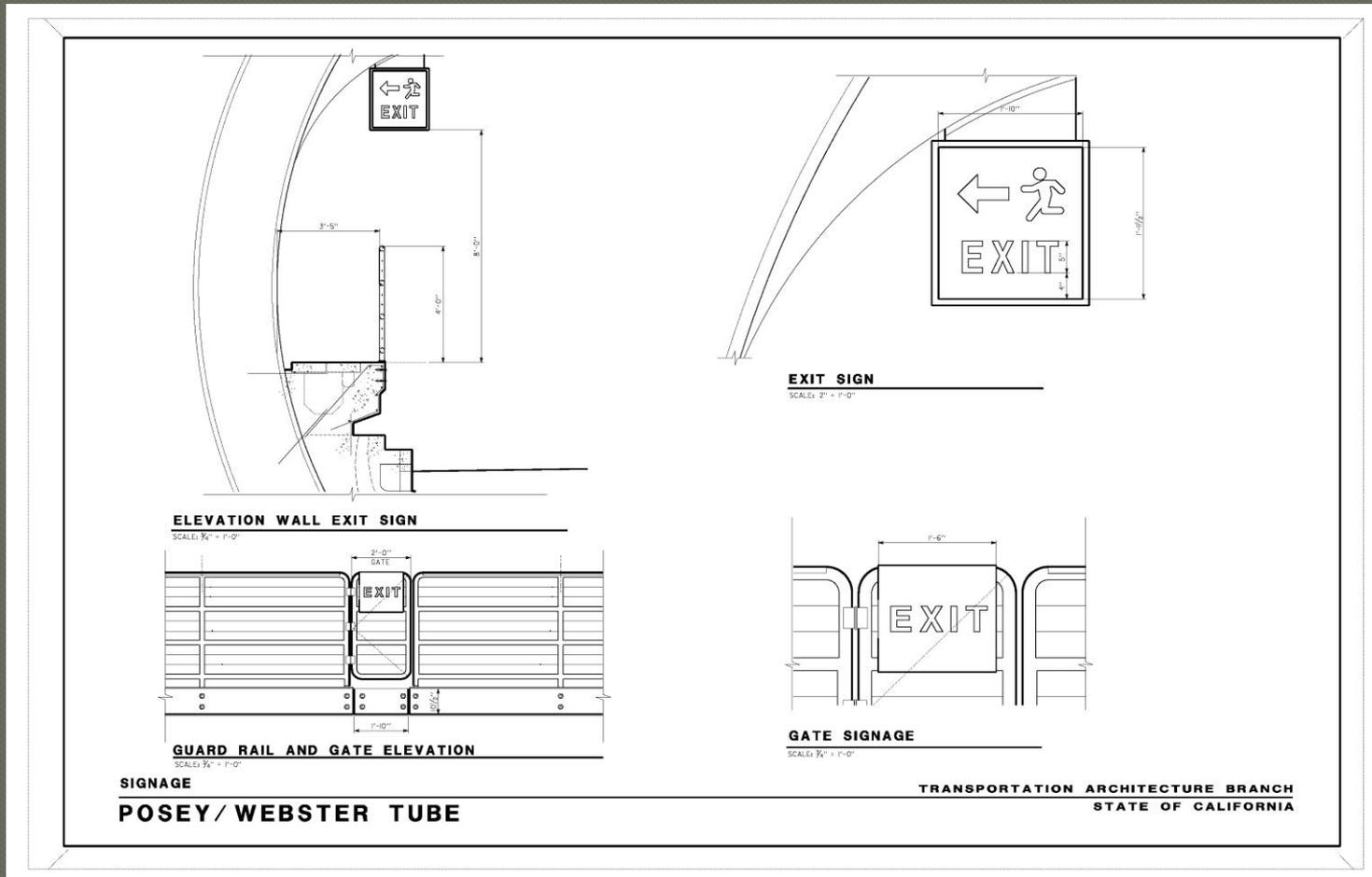


Rehabilitate Building Exterior



Remove and repaint portal exterior surface coatings

Proposed Guardrail





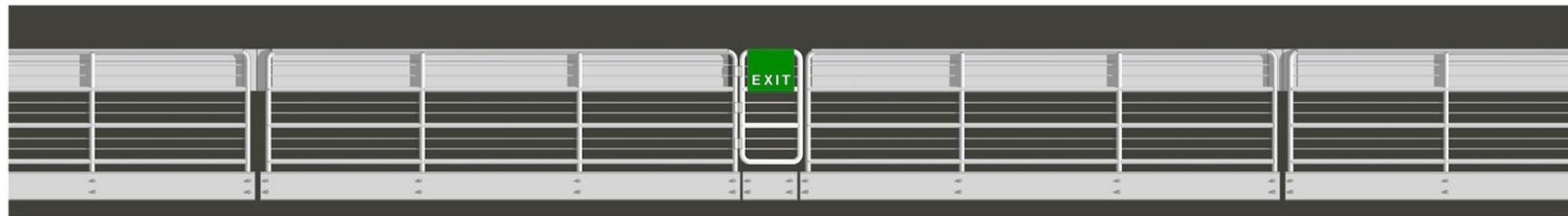
Proposed Guardrail



Perspective View



Perspective View



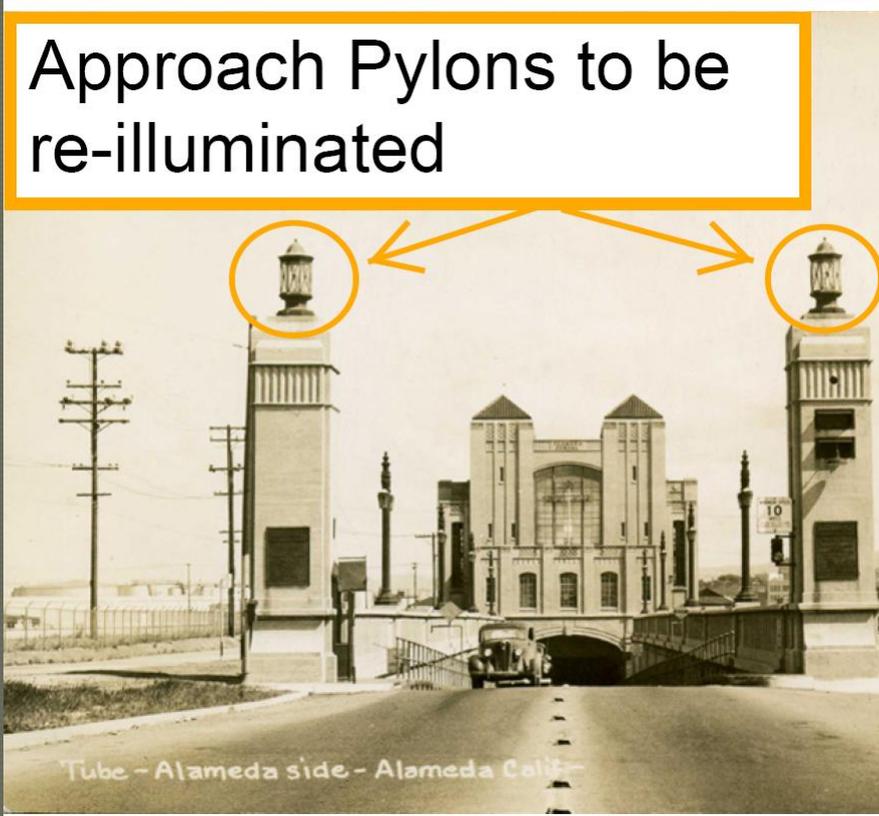
Elevation

Proposed Guardrail and Gate
Posey Tube

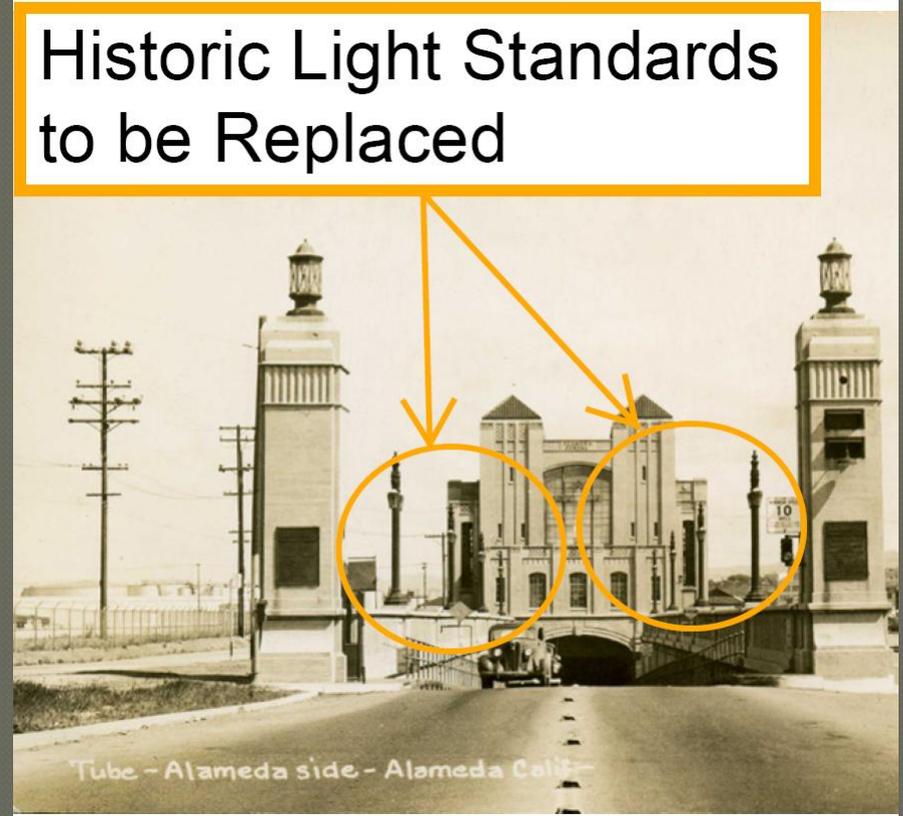
Caltrans
Division of Engineering Services
Office of Transportation Architecture

Lighting Repair and Replacement

Approach Pylons to be re-illuminated



Historic Light Standards to be Replaced



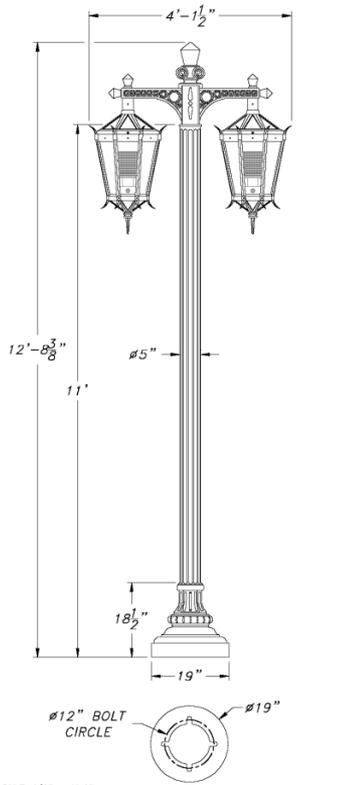
Lighting Replacement



Replace cobra-head lights at the entrance to the tubes with historic-reproduction lighting

Lighting Replacement

Exhibit 5

NILAND-19 SERIES	CSI POLE SPECIFICATION
 <p>SCALE: 1/2" = 1'-0"</p> <p>Catalog Name: N-19-F5-11-NS2-NIL-A-PEN-BOR</p>	<p>I. BASE</p> <p>Base shall be cast aluminum. Aluminum shall be certified as pure 356 copper free of any porosity, foreign materials or cosmetic flaws. Base casting shall be of uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be .250". The base casting shall have an internal sleeve up to 25" deep (depending on style chosen) to accept the pole shaft. Cast aluminum access cover shall be secured with two to four tamper proof stainless steel screws.</p> <p>II. POLE</p> <p>Pole shaft shall be seated into the base sleeve and circumferentially welded around the inside of the base. Shaft extension shall be of uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be .188 or .250". Exterior transition ring shall be cast in to the top of the base to mirror the design design of the fluted shaft. There are no exterior welds to finish. The anchor bolt locations in the base shall be cast in place as part of the base casting, for maximum strength. Pole shaft shall be seamless, deep-fluted extruded 6063-T6 aluminum.</p> <p>III. FINISH</p> <p>Fixture finish shall consist of degreasing, phosphoric acid etching with 140°F de-ionizing water, rinsed, oven dried and top coated with a thermoset TGC super polyester powder coat finish designed not to chalk or fade for many years. All Niland Company powders must pass a minimum 5000-hour salt-spray test for corrosion resistance.</p> <p>IV. ANCHORAGE DETAIL</p> <p>Standards 12 feet high or less shall use 1/2" x 18" L-type anchor bolts. Standards higher than 12 feet shall use 3/4" x 24" L-type bolts.</p> <p>FINISHES</p> <p>Five Year Powder Coating Warranty</p> <p>Niland Company factory-applied powder coatings are warranted against peeling, excessive fading and cracking under normal climatic exposure for a period of five years from date of shipment. Damage to finish coating caused by abuse or mishandling during installation is not covered by this warranty. This warranty is limited to the repair or replacement of the material involved and does not include reimbursement of consequential expenses such as installation or removal of equipment or transportation costs.</p> <p>I. STANDARD FINISH</p> <p>Satin aluminum achieved by rotary sanding, blasting and chemical etching.</p> <p>II. THERMOSET POWDER PAINT FINISH</p> <p>Pre-treatment shall consist of degreasing phosphoric acid-etching with 140°F and de-ionizing water, rinsed and oven dried.</p> <p>FINISH COAT</p> <p>Thermoset TGC super polyester powder coat finish electrostatically applied, oven cured and bonded at approximately 120°F to a minimum dry film thickness of 1.6 mils. All Niland powders must pass a minimum 5000-hour salt-spray test for corrosion resistance. The National Association of Architectural Metal Manufacturers, Metal Finishes Manual rates the outdoor life of these powders at 15-plus years.</p> <p>HOUSING</p> <p>The pendant mount shall be core cast aluminum. Aluminum shall be certified as pure #356 alloy, free of any porosity, foreign materials or cosmetic flaws. Castings shall be uniform wall thickness with no warping or mold shifting. Minimum wall thickness shall be 3/16". Electrical components are mounted to the flange and ballast carrier. The ballast carrier shall be mounted in the luminaire with three stainless steel screws. The optional refractor shall be molded of borosilicate glass designed for other a type II or type V light distribution patterns.</p> <p>III. ELECTRICAL</p> <p>All electrical components and materials shall be UL-recognized and wired by a certified technician. All Niland ballasts are high power factor rated for 30" starting. Medium and Mogul base sockets are 5KV rated. The electrical assembly is pre-wired with quick-disconnects for servicing. The fixture shall be UL-listed for wet location use and carry all IBD listings required. Ballast components shall carry the ballast manufacturers limited warranty of two years. Optional QL induction ballasts/lamps or LED unit.</p> <p>WARRANTY</p> <p>Niland Company warrants to repair or replace, at our option, any equipment that fails due to defects in material or workmanship within one year from date of shipment. This warranty does not include failures as a result of improper installation, mishandling or misapplication. This guarantee is limited to repair or replacement only and does not include reimbursement for expense of installation, removal of equipment, transportation or any other expenses that may be incurred. Authorization must be obtained from Niland Company in El Paso, Texas before any material is returned.</p>
<p>Revision #: 0 _____ Date: 05.20.11 _____ Page: 1 of 4</p> <p>Revision History: N/A _____</p> <p>Niland Approval: Luis M. Gomez _____ Customer Approval: _____</p>	 <p> <small> NILAND COMPANY • Ph: (915) 779-1405 • Fax: (915) 779-3618 • E-MAIL: INFO@NILAND.COM 320 N. Dark El Paso, TX 79903 • Ph: 800-648-9013 • Fax: 888-773-3065 • WEB PAGE: HTTP://WWW.NILAND.COM </small> </p>

Example of Potential Reproduction Light Fixture



Relocate Extinguishable Message Signs (EMS) and reduce sign clutter at the entrance to the Posey Tube



Schedule and Funding

- End Environmental Phase Sept. 2013
- Complete Contract Documents Mar. 2014
- Advertise Aug. 2014
- Start Construction Dec. 2014
- End Construction Dec. 2015

- Funding from State Highway Operation and Protection Program (SHOPP) \$8M



Other Issues

- Maintenance of the tubes
 - Tube washing
 - Fan operation
- Future Improvements
 - Operational Improvements inside the tubes
 - Possible future estuary crossing



Preparation Of Construction Contract

- Meetings with City staff to address concerns related to the project
- Will continue coordinating with City staff as contract documents are being prepared
- Will provide City staff 65% and 95% contract plans for review
- Provide City staff the Traffic Management Plan (TMP) for review



Construction Issues

- Provide public outreach prior and during construction
- Create a project webpage to be updated throughout the construction phase
- Address bike/pedestrian access during construction as needed