Department of Public Works

Great Highway Emergency Repair Status

May 2010

Timeline

December 2009

- DPW closes lane of GH due to storm damage to bluff, road and parking lots and engages GGNRA/NPS

January 2010

- After more bluff is lost, DPW closes southbound lanes of GH at Sloat and engages engineering firms to prepare emergency repair options
- Governor, Mayor, Director of Public Works declare storm-related emergencies.

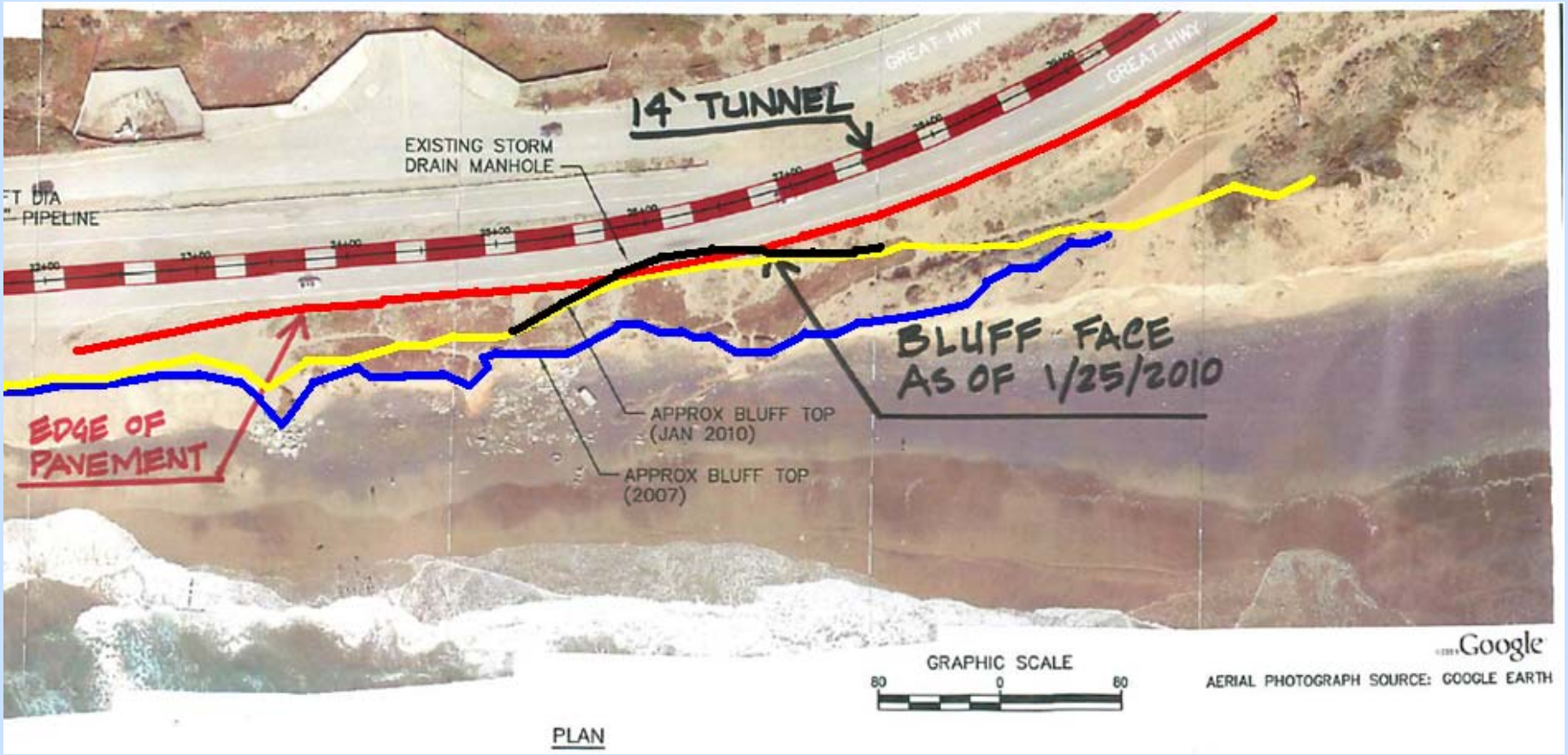
February 2010

- Field reviews with all necessary federal and state agencies and permits attained
- Emergency Repair selected to stabilize toe and repairs begin
- City and Caltrans evaluate roadway
- City requests state funding for emergency repairs to reopen road and long term funding for permanent repairs.

March 2010

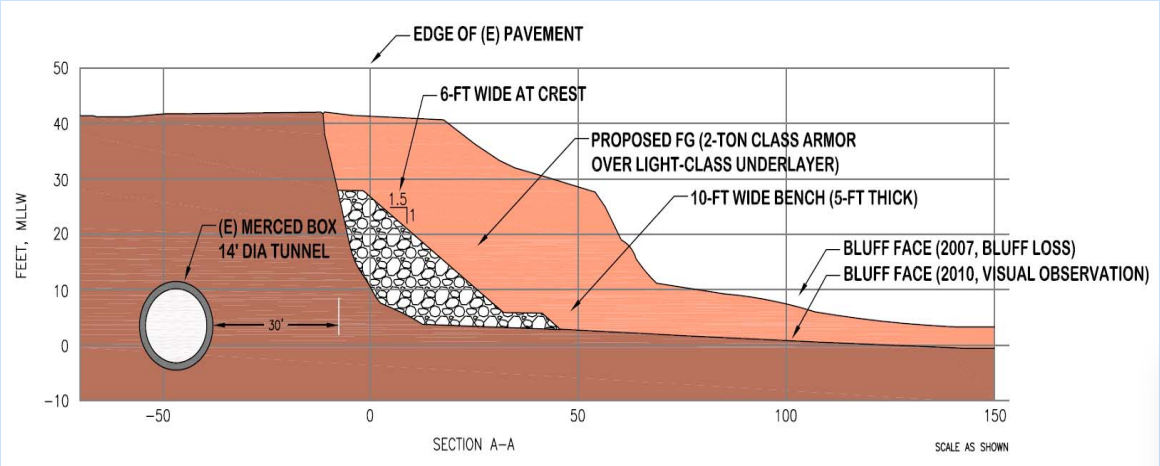
- DPW selects firm to design Emergency Roadway Opening project
- DPW meets with Caltrans and FHA to review site/assess federal involvement

Phase I Emergency Response Bluff Toe Stabilization



Phase I Emergency Response Bluff Toe Stabilization (complete)

The Rock Revetment protects the Great Highway from further damage, protects the 14' diameter, 10 MG untreated wastewater tunnel and allows for top of bluff protection options.



The Contractor installed 425 linear feet of rock revetment and removed 1,000 tons of debris along a stretch of the beach 1,200 feet long.

Phase II Bluff Top/Face Stabilization and Roadway Reopening

Phase II will continue to address emergency.
Scope of work is in design and contingent on available funding.

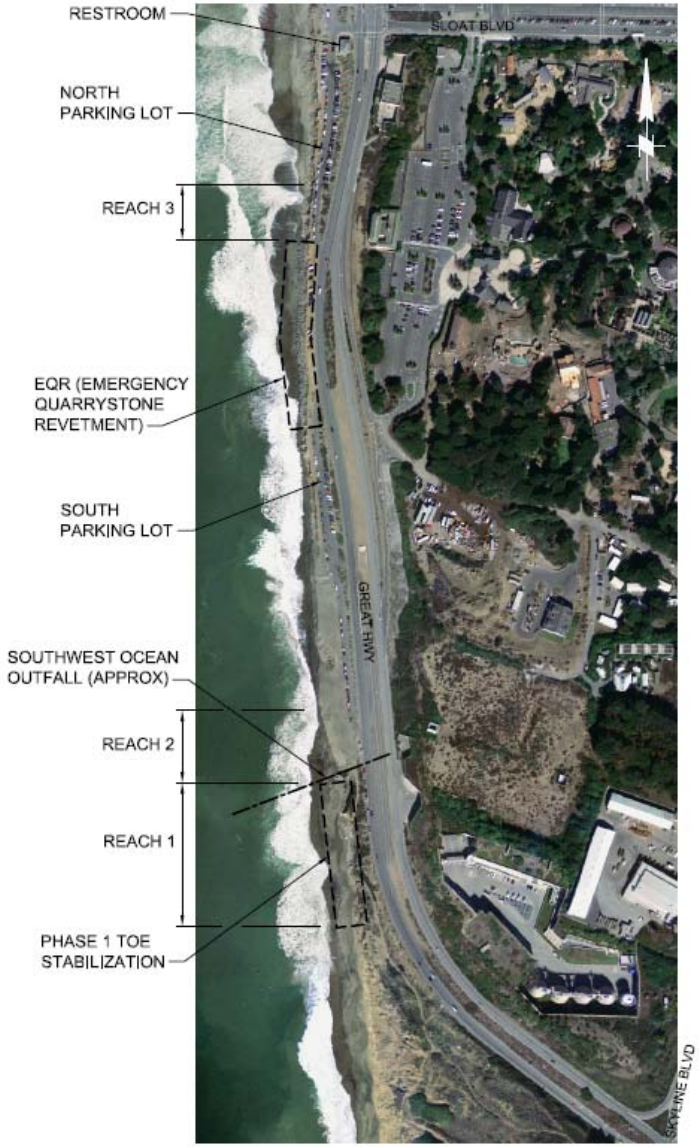
Design:

- DPW developing detour roadway and drainage drawings
- Engineers preparing reports, design alternatives, final drawings, specifications, and estimates for bluff top and face stabilization work.

Permitting and Regulatory Approvals:

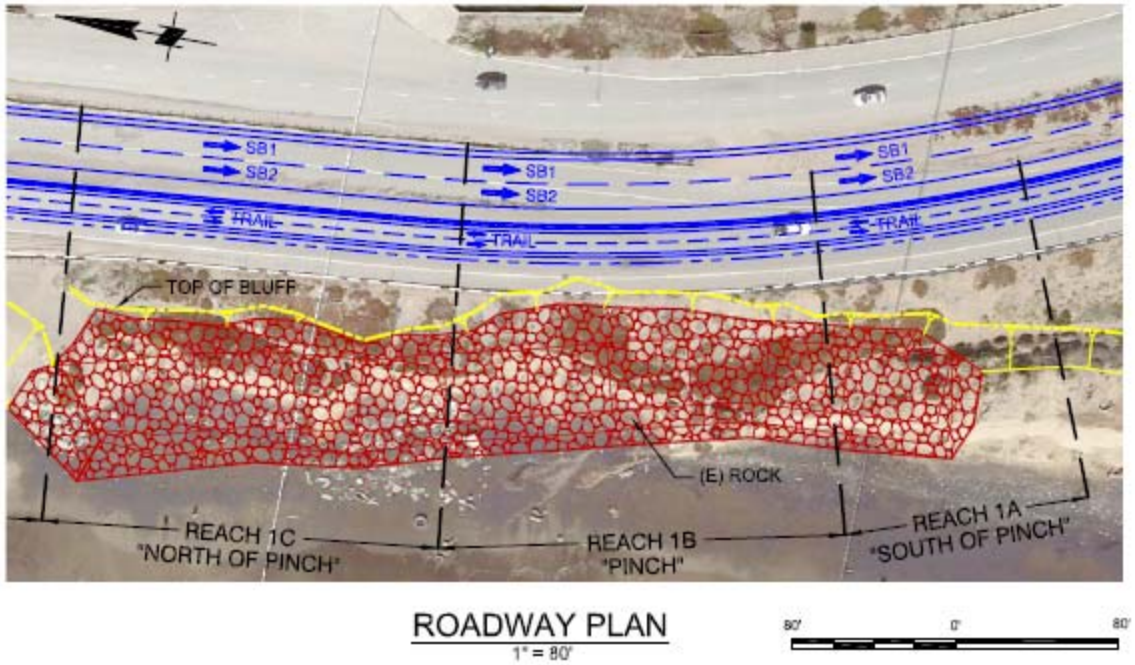
- California Coastal Commission
- Department of Fish and Game
- Army Corps of Engineers
- National Park Service

Phase II Bluff Top/Face Stabilization and Roadway Reopening (con't)



Phase II work:

- Three potential areas reinforced
  - Reaches 1, 2, and 3
  - by pile wall, soil nails, vegetation, & do nothing alternatives.
- Roadway realigned away from bluff



Schedule

	Completion Date
Phase I	
Emergency Toe Stabilization Project	4/9/2010
Phase II	
Roadway & Drainage Work	6/25/2010
Bluff Face/Top Stabilization Project	9/30/2010*

* Design options and scope, funding needs/availability, and bank swallow habitat issue will dictate final permitting and construction schedule

Budget

Great Highway Emergency Repair

Secured funding is a combination of SFPUC, SFCTA & DPW

Phase I - Toe Stabilization Construction

Cost:	$1.51 million
Secured:	$1.51 million

Phase II – Continued Emergency Stabilization and Roadway Reopening

Budget:	To be determined by workscope
Secured:	$1.44 million

Total secured: $2.94 million

Federal Funding Opportunities

Federal Highway Administration Emergency Relief funding

California Emergency Management Agency funding

Earmarked funding through Congresswoman Jackie Speier

Conclusion

Long-term goals

- Maintain the sustainability of the City's infrastructure
- Preserve wildlife habitats, beach access, and natural processes

Need for Emergency Response

- Protect 14-foot, 10 million gallon wastewater tunnel
- Protect beach and ocean from City infrastructure failure
- Stabilize bluff top, face and toe from damage
- Allow time to plan long-term projects