

COUNTY OF SANTA BARBARA PUBLIC WORKS DEPARTMENT
TRANSPORTATION DIVISION



SANTA BARBARA COUNTY
BRIDGE STATUS UPDATE

BOARD OF SUPERVISORS HEARING NOVEMBER 20, 2007



Presentation Overview

- Bridge Inspections
- Bridge Ratings
- Eligible Bridge Replacements and Rehabilitations
- Bridge Replacements and Seismic Retrofits
- Bridge Maintenance



Bridge Inspections

County Maintains 122 Bridges

Bridges greater than 20 feet in length

- Caltrans staff performs routine inspections every 2 years
- Special Inspections for Scour Critical and Fracture Critical Bridges
- Bridge Inspection Reports are sent to the County and Reviewed for necessary repair work

Bridges less than 20 feet in length

- County staff is in the process of inspecting these structures

Emergency Response Inspections

- Storm Season – County maintains a list of
- Earthquake – County maintains a list of seismically vulnerable bridges



Bridge Ratings

Sufficiency Rating (SR)

- Indicator of the overall condition of the structure
- Components of the bridge are rated on a scale of 0 to 9
- Weighted average of the individual ratings of the components, a percentage between 0 and 100

Structurally Deficient (SD)

- A Bridge is classified as SD if any structural component of the bridge receives a rating less than 4

Functionally Obsolete (FO)

- A Bridge is classified as FO if any geometric component of the bridge or approach roadway receives a rating less than 4



Eligible Bridge Replacements and Rehabilitations

Eligible Bridge Replacements

- Bridge must have a SR less than 50 and be classified as either SD or FO
- County currently has three bridges with a SR less than 50
 - Two of these bridges have received federal funding for replacement
 - Staff will be submitting a request for funding for the remaining bridge shortly

Eligible Bridge Rehabilitations

- Bridge must have a SR less than 80 and be classified as either SD or FO
- County currently has eight bridges with a SR less than 80
 - Two bridges have received federal funding for replacement
 - Staff is working with the Federal Highway Administration to prioritize funding to rehabilitate or widen the remaining structures



Bridge Replacements and Seismic Retrofits

Programmed and Funded Bridge Replacements

- Jonata Park Road Bridge is currently under construction
- Tepusquet Road Low Water Crossing Replacement is currently in final design, anticipate construction to start Fall 2008

Programmed and Funded Seismic Retrofits

- Two bridges will be full replacements – Floradale Ave and Avenue of Flags
- Six bridges will be seismically retrofitted – Three bridges along Jalama Road, Cathedral Oaks at Tuckers Grove, San Marcos Road, Rincon Hill Road

Bridges Replaced and Seismically Retrofitted in the last 5 years

- Six bridges have been replaced – Calle Real, Bell Street, Old Coast Highway, three bridges along North Jameson Lane
- One bridge has been seismically retrofitted – Padaro Lane



Bridge Maintenance

- Through the Measure D Program of Projects and Road Maintenance Annual Plan (RdMap) set funds aside for scheduled maintenance projects
- Bridge Maintenance projects have focused on sealing bridge decks from water intrusion and minor structural repairs
- Currently have funding set aside for treating four bridges in the County with Methacrylate
- Approximately \$35 million unfunded backlog for bridge replacements, rehabilitations, widenings and maintenance projects