ROUTE 405
SEPULEDATA PASS IMPROVEMENT PROJECT
Project Status

PCMAC– November 17, 2011

Jon Hamaguchi, PE – Caltrans
I-405 Stake Holders

• LACMTA (Metro) & CALTRANS
• City of Los Angeles
• County of Los Angeles
• Federal Gov’t (GSA, VA, FBI, FHWA)
• Metropolitan Water District
• Phone Companies
• Gas Company
• LA City Dept. of Water & Power (LADWP)
• Petroleum Companies
• Citizen Groups
• Getty Museum
Project Scope

• Add 10-mile HOV lane on the NB I-405, from I-10 to Rte-101
• Improve ramps, bridges and sound walls.
• 24 bridge structures, including the removal and replacement of Skirball Center Dr UC, Sunset Blvd UC and Mulholland Dr OC
• 130 retaining walls and sound = 18 miles.
• DB: Kiewit & HNTB
View North at Route 405 / Route 10 Interchange
View North at Route 405/Montana Avenue
View North at Route 405 / Skirball Center Drive
Status

- Current budget of $1.04 bil.
- Notice To Proceed (NTP) – June 2, 2009
- Substantial Completion Date is May 2013
- Currently @ 50% into the schedule with approx. 40% of the work completed.
- 15 of 24 bridges under construction
- 33 of 115 retaining walls under construction
Precast Girders

- 15 of 24 bridges are PC girders
- Precast I-girder
- Bulb-T
- Voided-slab
Sunset Blvd OC
Sunset Blvd OC
Sunset Blvd OC
Bridge 10 & 11 Re-Design (Changing from Steel to Bulb T Girder)
MSE Walls

- Mechanically Stabilized Embankment Retaining Walls
- 115 Retaining Walls / 30 are MSE
- Corrosive soils
- Differential settlement
MSE Walls
Stay-In-Place Deck Panels

• Four Bridges
  – Ohio Ave. UC
  – Sunset Blvd UC
  – Sepulveda Blvd UC
  – Skirball Center Dr UC
Stay-In-Place Deck Panels
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Design Considerations

- Electrical conduits
- Electroliers or pendant lights
- Utility hangers
- Rebar couplers - clearance
- Skewed bridges
- Camber variances due to skew
- Variable girder spacings – splayed or sweep
- High cross-slopes
Coming next…

I Survived

405

Carmageddon

July 16th-17th 2011

II
http://www.metro.net/projects/I-405/

To Be Continued

Questions !!!
Bridge 6 Abutment Piles & MSE Wall
Bridge 6 MSE Wall Placement
Corner Treatment
- Smooth Finish Concrete