

Interstate 10 Precast Prestressed Concrete Pavement

Project Information

Constructed: April 2004

Project Location: Eastbound Interstate 10, El Monte, California

Project Length: 248 ft (full-width pavement: 37 ft wide, including traffic lanes and outside shoulder)

Fabrication

Contractor: Pomeroy Corporation, Perris, CA

Number of panels fabricated: 31

Panel Dimensions: 37' x 8'

Panel Thickness: 10" to 13.1"

Pretensioning: 6-0.5" Gr. 270 strands



Construction

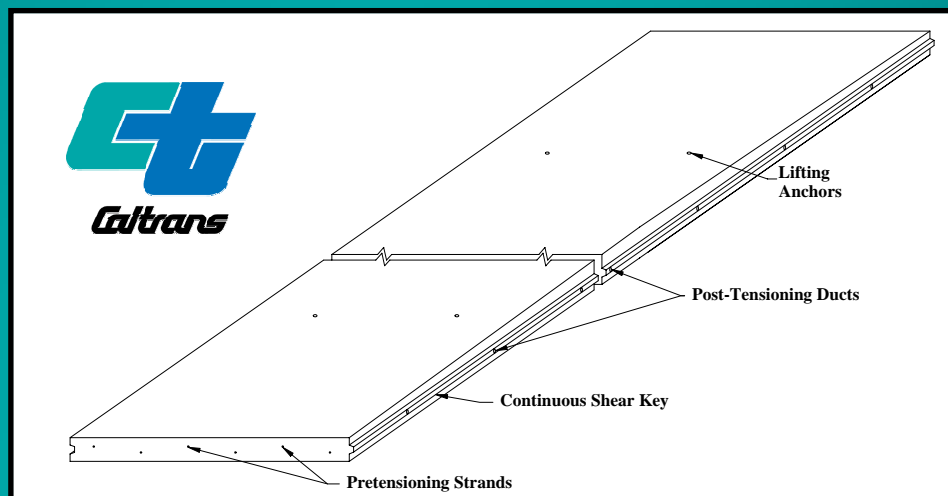
Installation Contractor: Yeager-Skanska, Riverside, CA

Post-Tensioning Contractor: Dywidag Systems Int'l, Long Beach, CA

Pavement Structure: 6" lean concrete base over 8 1/2" aggregate base

Panel Installation Rate: 16 panels/3 hours

Post-Tensioning: Longitudinal: monostrand tendons, 0.6" Gr. 270 strand at 3 ft on center
Panels post-tensioned in 124' sections using epoxy-coated strand



Benefits of Precast Prestressed Concrete Pavement

- ✓ Expedited Construction
 - Faster opening to traffic*
 - Weekend or nighttime construction*
- ✓ Improved Quality and Performance
 - Controlled fabrication conditions*
 - Proven performance of cast-in-place prestressed concrete pavements*
- ✓ Reduced Slab Thickness
- ✓ Reduced Cracking and Number of Joints
- ✓ Ability to Span Voids and Non-ideal Base Layers
 - Prestress can be adjusted to account for voids and “soft” underlying base materials*

Where else has Precast Prestressed Concrete Pavement been used?

- Georgetown, Texas (2002)
 - 2,300 ft frontage road pavement along Interstate 35*
- Sikeston, Missouri (2005)
 - Replacement of 1,010 ft of jointed reinforced concrete pavement on Interstate 57*
- Red Dog, Alaska (2002)
 - Truck apron for 200-ton mining trucks at Red Dog Mine*
- LaGuardia Airport (2002)
 - 100 ft of taxiway pavement*
- Lambert-St. Louis International Airport (2002)
 - 25 ft x 25 ft test panel for taxiway pavement*
- Sheldon, Iowa (2006)
 - 160 ft precast prestressed bridge approach slab pavement*

Precast
Pavement



www.PrecastPavement.com

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