

Session 7

Mike Melvin

FL. Dept. of Transportation District Three

I-10/I-110 Interchange

Topic Description

Reconstruction of the I-10/I-110/Davis Highway Interchange. PBS@J was the design consultant. PD&E was finished (route, location & design approval) in June 2000. The project was designed, R/W acquired, Utilities and permits cleared by December, 2001, and the project let in May, 2002. Currently under construction, to be completed by April, 2007 (barring anymore major hurricanes like IVAN) Highlights of construction is the public awareness.

Speaker Biography

37 years with FDOT. From Feb 1969 until Oct 1981 in Roadway Design Crew. From Oct 1981 until Nov 1994, in Maintenance as Permits & Contracts Engineer, then FCO Coordinator (project manager to design and construct district facilities). In Nov 1994 returned to Roadway Design in Consultant Project Management.

Session 7

Matt Lamb

PBS&J

I-10/I-110 Interchange

Topic Description

Will be presenting the unique challenges that the I-10/I-110 Interchange project posed. From Concept through Design into Construction there have been unique challenges that have been overcome to complete this project.

Speaker Biography

I have twelve years of experience in the design and management of roadway projects ranging from minor resurfacing to major interstate / interchange reconstruction projects.

Unique Highway Design I-10 / I-110 Interchange



**FDOT Design Conference
August 1, 2006**

Agenda



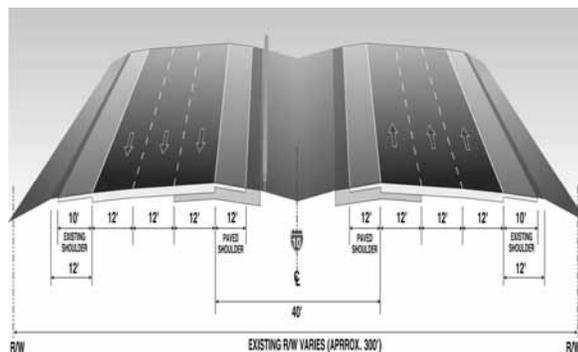
- **Planning Phase**
 - PD&E
 - IMR / Interchange Configuration
- **Design Phase**
 - Schedule
 - Coordination
 - Drainage / Permitting
 - Noise Walls
 - Aesthetics
 - R/W Mapping and Acquisition
 - MOT / Construction Sequencing
- **Construction Phase**
 - Public Involvement
 - Weather

Project Overview



- 4.5 Miles of Widening and Reconstruction along I-10 and I-110 in Escambia County
- Complete reconfiguration of I-10 / I-110 Interchange and I-10 / Davis Highway Interchange
- Improved operations for travelers North of Pensacola into downtown area

Typical Section I-10



- Crack and Reseat existing concrete pavement in widening areas
- Remove Concrete in reconstruction areas
- Installed Edge drains to eliminate drainage issues

Planning Phase

PD&E / IMR

- Part of PD&E for 9 interchanges along I-10 and I-110 in Escambia County
- Followed Master Plan completed in 1997
- Included the IMR to provide System to System and System to Service Access with Davis Highway
- PD&E Completed in August 1999



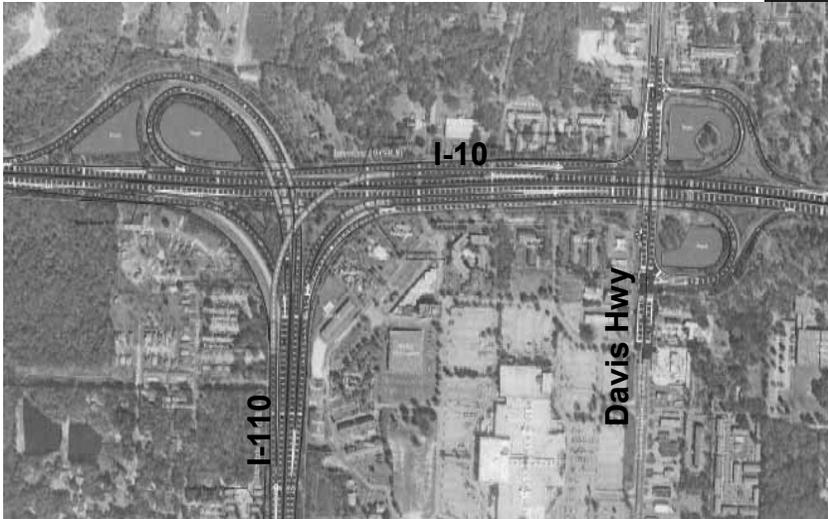
Existing Condition



Proposed Condition



Proposed Condition



Unique Geometrics



- **Ramps directly connecting Davis Highway and I-110 and Davis Highway and I-10.**
- **½ Mile Separation between Davis Highway and I-110 – 16 lanes of travel along I-10 to accommodate all movements.**
- **Minimal R/W takes**

Schedule



- **18 month Design Schedule – Began June 2000**
- **December 2001 Production Date**
- **May 2002 Letting**
- **Board of Directors meetings – Setup responsible individuals**
- **R/W set off 15% plans**
- **Expedited Review cycles. (2-3 Weeks)**
 - **Worked through reviews**
 - **Held roundtable review workshops**
- **Permitting submitted off Phase II plans**

Coordination



- **Creighton Road overpass incorporated into project - EC Driver**
- **Widening along I-110 setup to accommodate future I-110 project and Airport / Brent split Diamond interchange**
- **Davis North and Davis South project – HDR**

Drainage / Permitting



- **Early development of Permit package – Phase II plans**
- **Received DEP Permit in August 2001**
- **Close coordination on Erosion Control – Details included in plans**
- **Joint Use pond designed at Borrow Pit site near Airport Blvd**

Drainage



Airport Boulevard

- Borrow Pit converted into permitted Regional Treatment facility
- Approximately 20 acres including 7 acres Littoral Zone
- Adjacent to Carpenters Creek



Noise Walls

- Commitment of the PD&E
- Public Involvement Process completed late in design phase
 - Presented colors and aesthetic treatments
- 4 economically feasible locations within project limits
- First Noise walls in D3

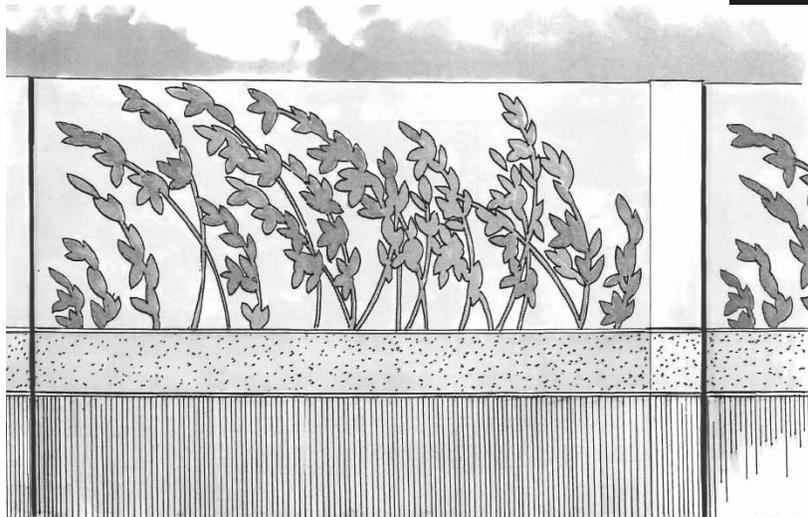


Aesthetics

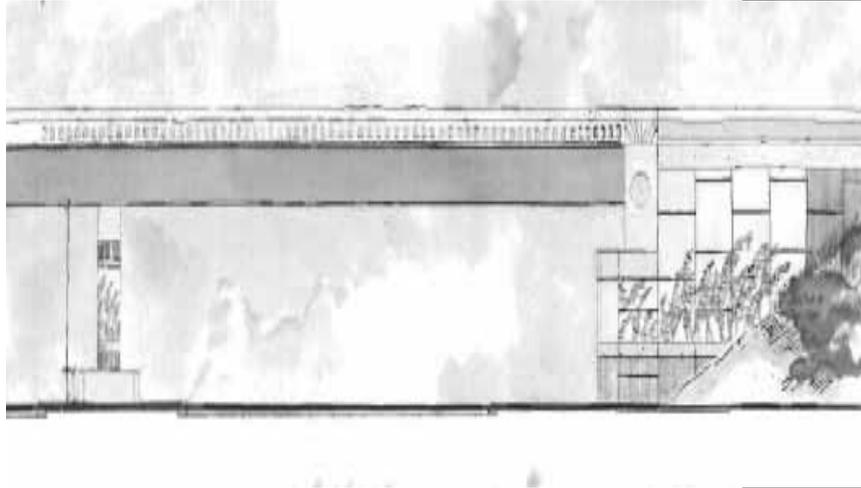


- **Close coordination with City of Pensacola and MPO to develop concept unique to Pensacola**
 - Sea Oats
 - Blue Angels
- **Concept and Details developed late in Design process**
 - Noise Walls
 - MSE Walls
 - Bridge Piers
- **Close coordination between District / Architects and Structural Engineers**

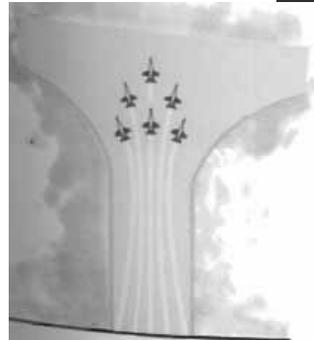
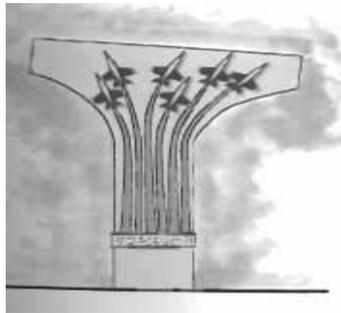
Sound Walls



Bridges over Davis Highway



Hammerhead Bridge Pier



R/W Mapping and Acquisition



- R/W requirements set off of 15% plans
- Allowed for early acquisition of all required R/W
- Worked Closely with Acquisition staff to ensure only necessary property was acquired
- Worked with impacted parcels to develop acceptable cure
- Impacts limited to one portion of project

MOT / Construction Sequencing



- Critical Evacuation Routes for Pensacola area
- Heavy Truck Traffic along I-10
- Close coordination with Bridge Construction sequence
- Multiple Workshops / Meetings with District Construction and CEI

Construction Phase Public Involvement



- **Master CEI contract FDOT contracts in Escambia County – Volkert**
 - I – 110
 - Davis Highway
- **Public Information Consultant – Public Information Office located close to Project site**
- **Coordination with local media on lane closures / issues**
- **Established Project Website**

I-10 / I-110 Website



10-110 **FDOT Escambia County**
Improvement Projects

Home | Find a Site | Description | Traffic | Schedule | News | FDOT | Links | Contact

I-10 / I-110 Interchange (State's completion) **I-10 / I-110 Davis Highway Interchange (State's completion)**

(Click on the images to enlarge.)

The Florida Department of Transportation (FDOT) has a multimillion-dollar transportation infrastructure upgrade underway in Escambia County. Major initiatives of the program include improvements to Interstates 10 and 110, widening of Davis Highway (State Road 291), and replacement of the Conover's Street (U.S. Highway 90) and I-10/Escambia Bay bridges.

This website will keep you informed on the latest news and traffic impacts associated with major FDOT construction projects in Escambia County.

If you have questions or comments please send them to us at ia10110@volkert.com. You may also contact the Pensacola Public Information Office at the address and telephone number below.

Pensacola Public Information Office
610 Volkert Construction Services, Inc.
651 E. Burgess Road, Suite 52
(850) 477-7495 (a local call in Pensacola)
e-mail: ia10110@volkert.com

Project information is also available from the FDOT District Three Public Information Office:

FDOT District Three
Public Information Office
Attn: Ms. Terriene Speights
P.O. Box 607
Chilley, FL 32426
(888) 638-0250 (toll free)
e-mail: terriene.speights@fdot.state.fl.us

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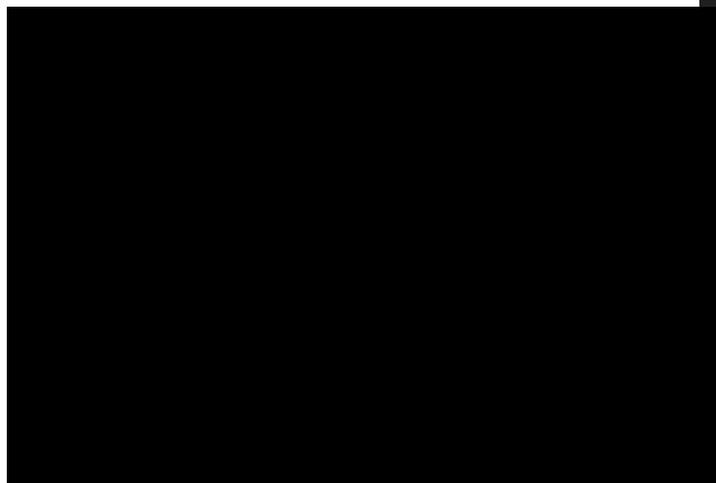
- **Traffic information**
 - 6 on-site cameras
- **Schedule information**
- **Allows for up to date news and information sharing**
- **Contact information**
- **Valuable during Hurricane season**

Schedule Impacts



- **Contractor - Archer Western**
- **\$70.7 Million winning Bid**
- **Contract Days 1460**
- **Construction Begin September 2002**
- **Anticipated Final Acceptance April 2007**
- **308 Weather Days as of June 2006**
- **Hurricanes !!!!! (IVAN / DENNIS)**

Hurricane Ivan impacts Escambia Bay Bridge





Questions?