

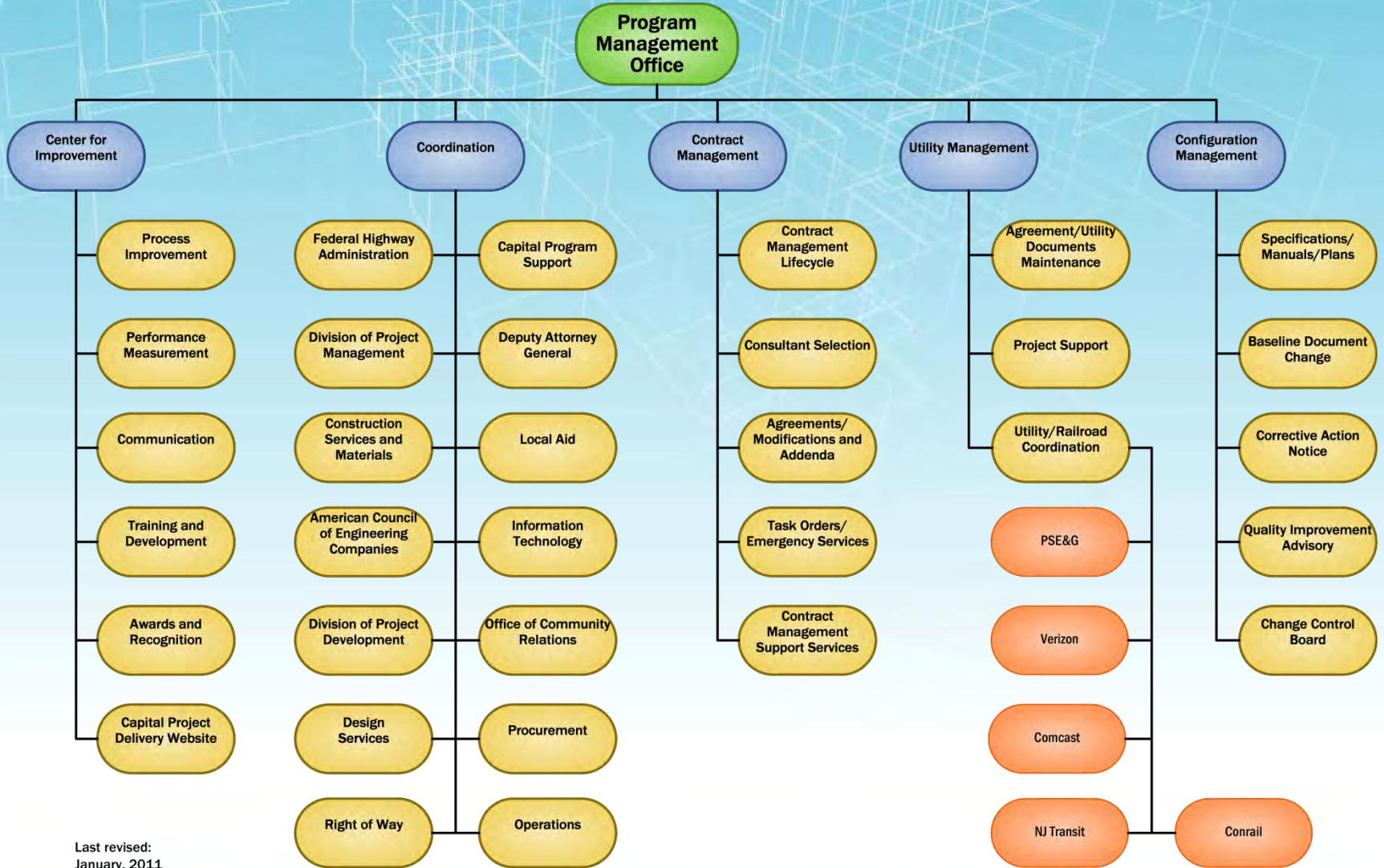
The State of New Jersey
Department of Transportation

Route 18 New Brunswick Improvement Project NJDOT Best Practices Forum



February 17, 2011

PMO Organization Chart

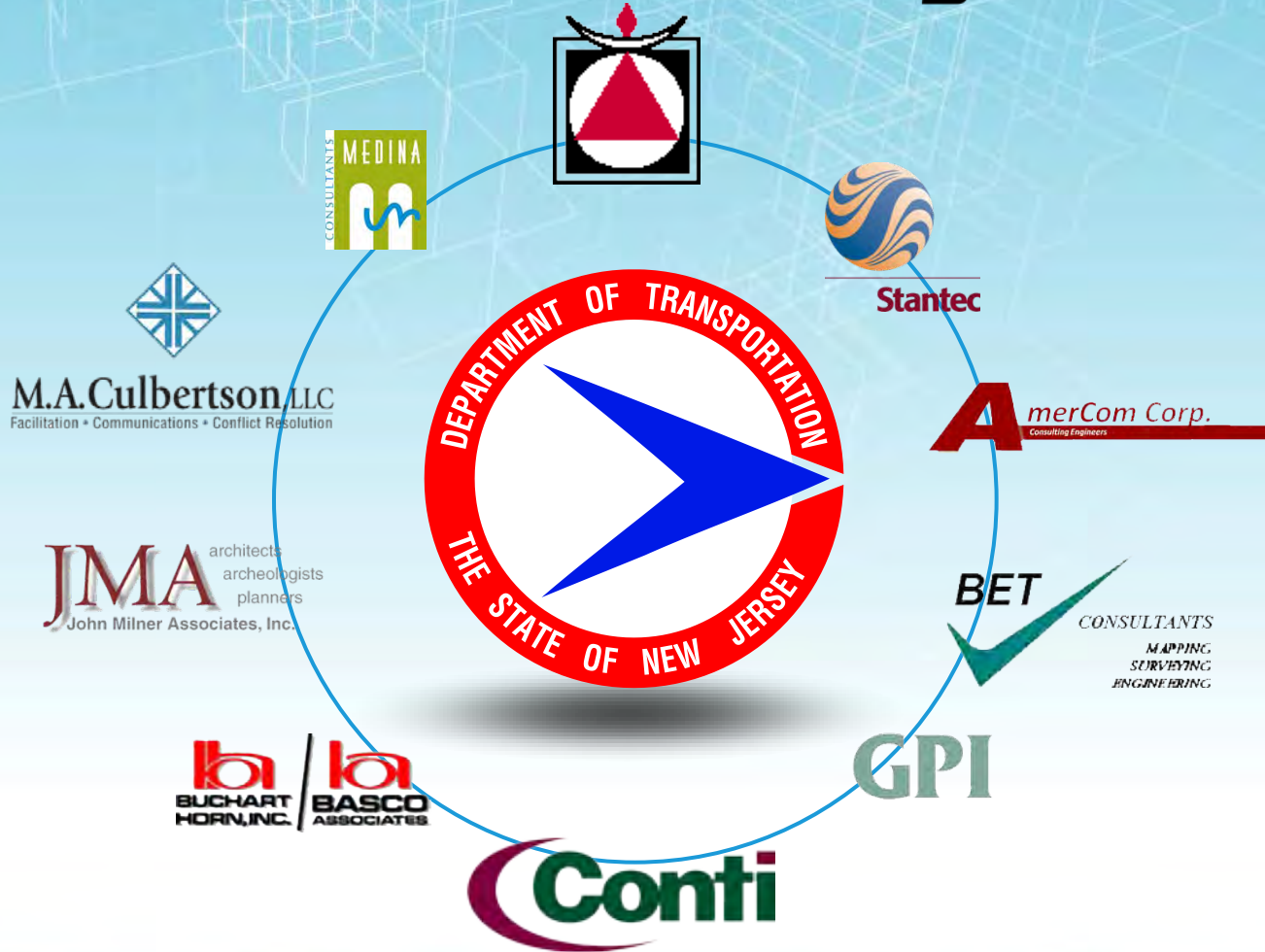


Last revised:
January, 2011



Project Team

Gannett Fleming

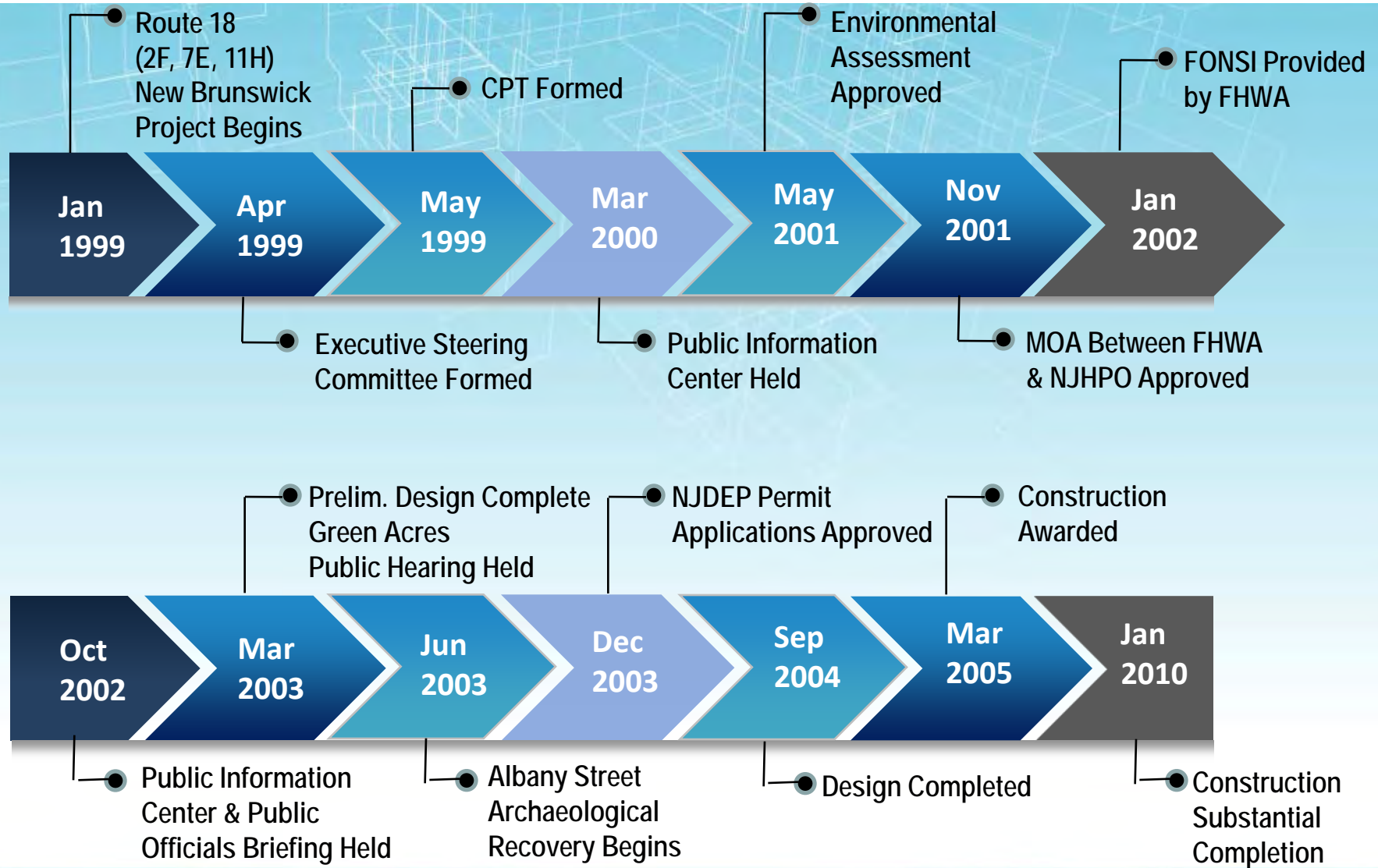


Purpose and Need

- **Improve motorist safety & traffic operations**
- **Eliminate substandard geometrics**
- **Meet transportation demand**
- **Provide system linkage**
- **Manage access to the City of New Brunswick**
- **Enhance multi-modal access and mobility**
- **Address socio-economic considerations**
- **Address Master Plan consistency**





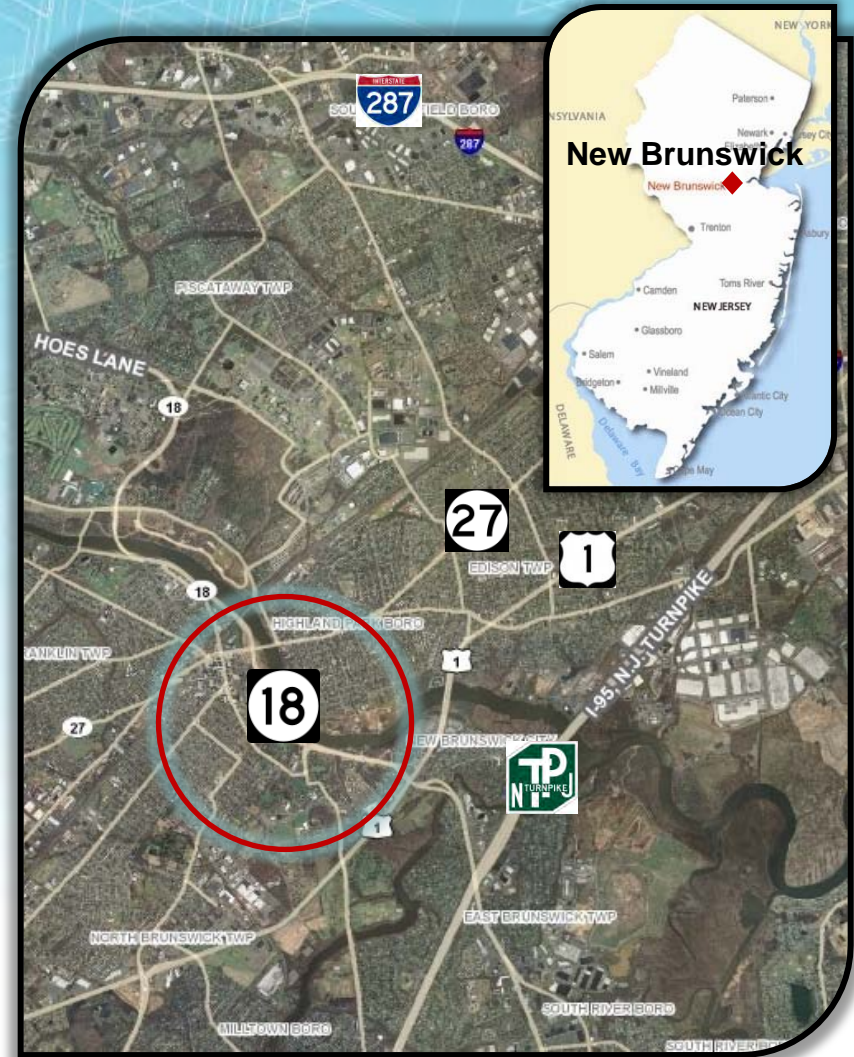
Project Timeline



Project Context

- **Transportation**

- **18** Urban principal arterial
- **City of New Brunswick**
- **Rutgers University**
- **U.S. Route 1**
- **Route 27**
- **NJ Turnpike** 
- **Interstate 287** 
- **NE Corridor (Amtrak, NJT)**



Project Context

- **Environmental**
 - Raritan River
 - D&R Canal
 - Stormwater Mgmt
 - Boyd Park
 - Archaeological site
 - Contaminations
 - Historic resources



Project Context

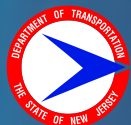
- **Community**

- Involvement
- Safety
- Access and mobility
- Noise
- Aesthetics
- Property impacts
- Park enhancements

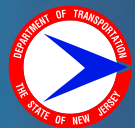


Design Solutions

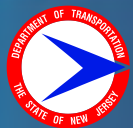
- Corridor Reconstruction...2 miles
- **New Sidewalk & MUP...5 miles**
- New Bridges...6
- **Retaining Walls...2.5 miles**
- Noise Barriers...3,500 LF
- **Sign Structures...16**
- New Signalized Intersections...2
- **Signalized Intersection Improvements...7**
- Pedestrian Underpass & Overpasses
- **Boyd Park Entrance Promenade & Amphitheater**
- Boyd Park Extension...bulkhead rehab, esplanade, boat launch
- **Architectural Treatments & Corridor Aesthetics**



Construction Results



Construction Results



Construction Results



Construction Results



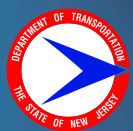
Construction Results



Construction Results



Construction Results



Project Management Knowledge Areas

Integration

Scope

Time

Cost

Quality

Human Resources

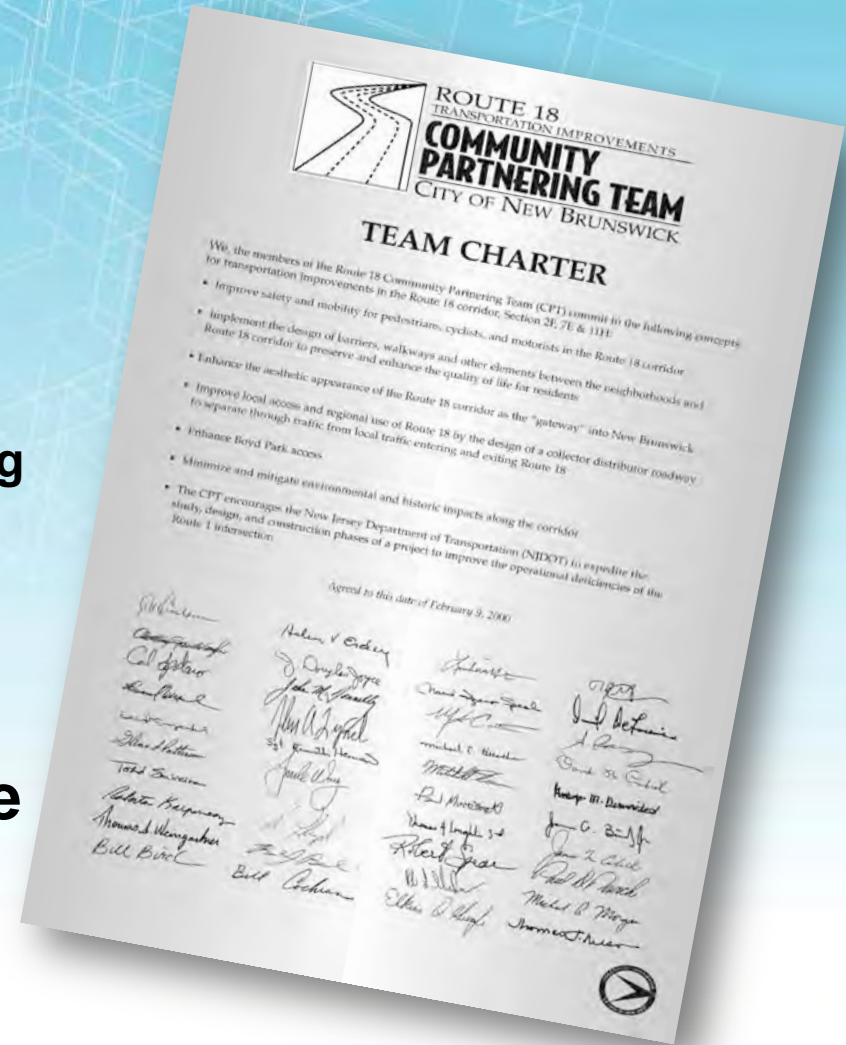
Communications

Risk



Integration Management

- Team Charters
- Multi-Phase Liaisons
 - Professional Facilitator
 - Government Liaison
 - Design Liaison during Construction
 - Communications Coordinator during Construction
 - Partnering Coordinator during Construction
- Executive Steering Committee
- Consultant Project Execution Plan



Scope Management

- **Context Sensitive Solutions (CSS) Approach**
- **SME On-Board Scope Verification Meetings**
- **Detailed Comprehensive Traffic Mitigation Report**



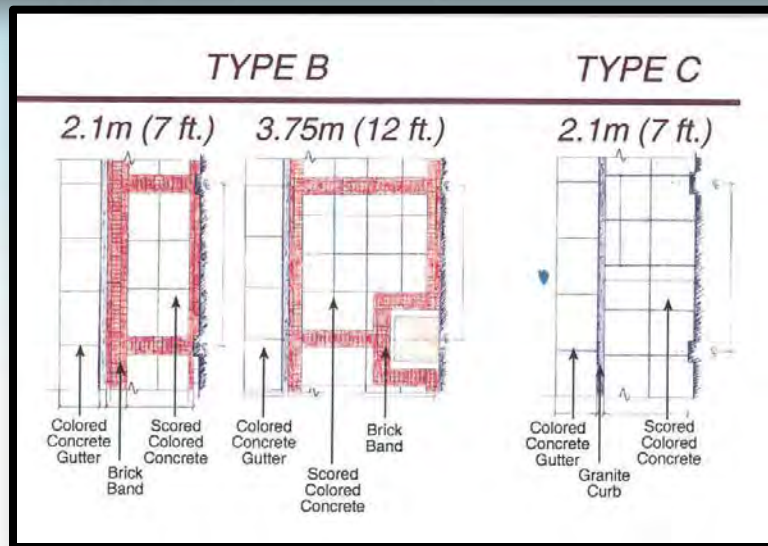
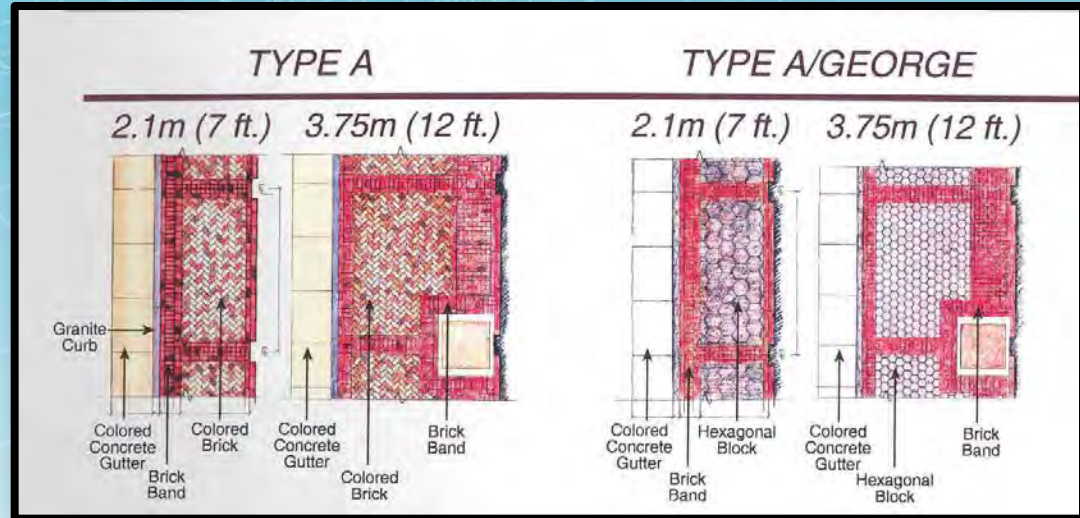
Time Management

- **Comprehensive Work Breakdown Structure**
- **Advanced ROW Acquisitions (Pre-design)**
- **Advanced Utility Relocations (Pre-construction)**
- **Advanced Archaeological Data Recovery Contract**



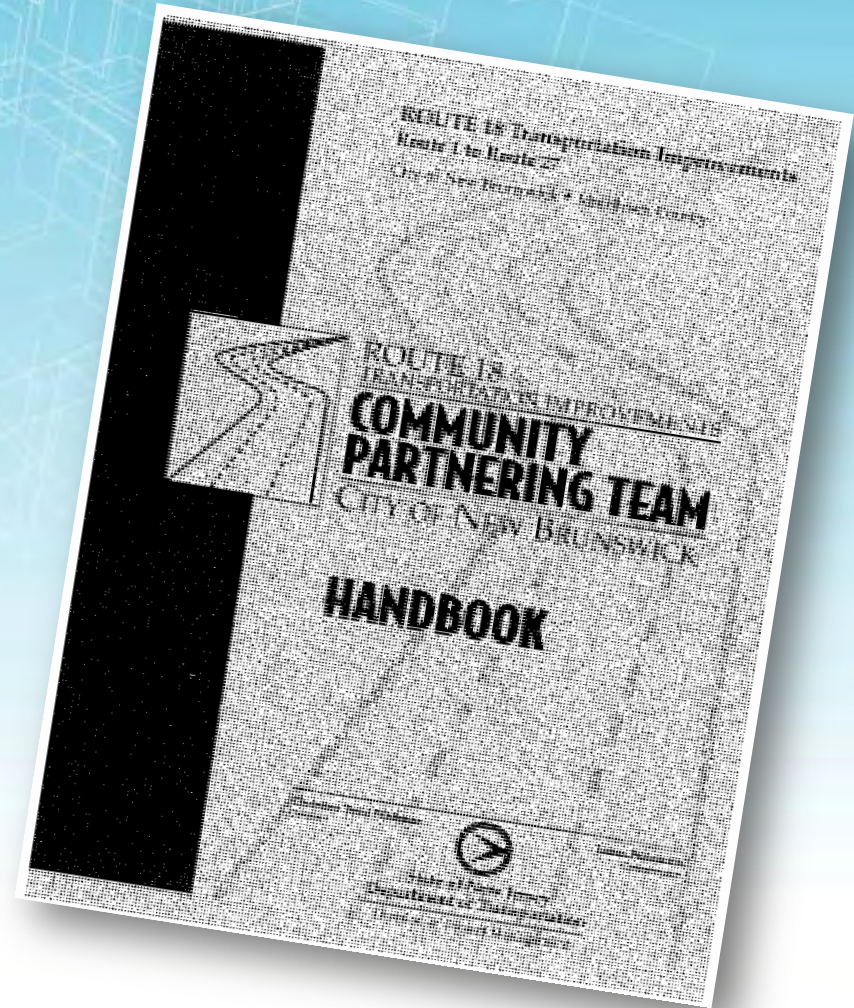
Cost Management

- Contractor Incentives
- Cost Optimization Strategy for Corridor Aesthetics
- Construction & Fabrication Industry Pricing Trend Input



Quality Management

- Independent Contractor/
Designer Document Reviews
- CPT Handbook for Issues &
Records Tracking
- Lessons Learned from
Recent Projects



Human Resource Management

- **Resource-Loaded CPM Schedule**



Communications Management

- **Community Partnering Team**



Communications Management



ROUTE 18
TRANSPORTATION IMPROVEMENTS
COMMUNITY PARTNERING TEAM
CITY OF NEW BRUNSWICK

COMMUNITY PARTNERING TEAM WORKING HARD, MAKING PROGRESS...



Boyd Park Enhancement Group Meeting



Corridor Aesthetics Artist Rendering



Corridor Aesthetics Group Meeting



Corridor Aesthetics Group Meeting



Corridor Aesthetics Group Meeting



Corridor Aesthetics Artist Rendering



CPT GROUPS

Five CPT Groups were established at CPT Meeting No. 14 to address community issues concerning Corridor Aesthetics, Boyd Park Enhancements, Design Development, Traffic Management and Public Information/Awareness. Three of the Groups have been meeting to resolve context sensitive design issues from April 26-October 10, 2002. The other CPT Groups will be established in 2003 to assist with traffic management and public awareness during construction.

BOYD PARK ENHANCEMENTS

Group Meeting No. 3 April 26, 2002
• Prioritize issues and present concepts for discussion on the facilities and enhancements in the City Docks area of Boyd Park

Group Meeting No. 4 May 22, 2002
• Present options and continue discussion of elements
• Make recommendations to present to the CPT

Group Meeting No. 5 June 18, 2002
• Continue to present concepts and discuss Park facilities and landscaping features

CORRIDOR AESTHETICS

Group Meeting No. 3 April 26, 2002
• Prioritize issues, present concepts and discuss theme and elements for the corridor

Group Meeting No. 4 May 22, 2002
• Present options and continue discussion of features
• Make recommendations to present to the CPT

Group Meeting No. 5 June 18, 2002
• Continue to present concepts and discuss elements for the corridor such as lighting and signage

CORRIDOR AESTHETICS AND BOYD PARK

Group Meeting No. 6 August 13, 2002
Group Meeting No. 7 August 28, 2002
Group Meeting No. 8 September 17, 2002
Group Meeting No. 9 October 10, 2002

• Continue to present concepts, discuss structures and identify streetscape elements for the corridor

DESIGN DEVELOPMENT

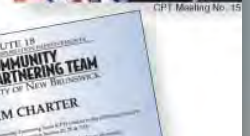
Group Meeting No. 1 May 2, 2002
• Prioritize issues, present concepts and discuss design of structures for the corridor

Group Meeting No. 2 June 13, 2002
• Continue to present concepts and discuss structural elements for the corridor

Group Meeting No. 3 October 10, 2002
• Present options and make recommendations to present to the CPT

CPT Meetings and Accomplishments

CPT Mtgs. No. 1 - 10	May 18, 1999 – February 9, 2000	• Establish CPT, identify community issues, and examine design options
Public Information Center	Tuesday, March 28, 2000	• Present proposed improvements to obtain comments from the public
CPT Mtg. No. 11 - 13	May 3, 2000 – March 1, 2001	• Establish task forces to address Corridor aesthetics and Boyd Park enhancement's in city docks area
Task Force Meetings	December 1, 2000 – February 9, 2001	• Corridor Aesthetics and Boyd Park Task Force meetings to define specific community interests and recommendations
Public Hearing & Information Center	June 25, 2001	• Present Preferred Alternative to the general public and obtain comments from the general public
CPT Meeting No. 14	March 13, 2002	• Present completion of EA, results of the Public Hearing and develop CPT working groups
CPT Group Meetings	April 26 – October 10, 2002	• Prioritize issues, discuss context sensitive design elements and make recommendations to the CPT and to the Steering Committee
CPT Meeting No. 15	June 19, 2002	• Present accomplishments of the CPT Groups, come to consensus on recommendations to be presented for Steering Committee consideration
CPT Security Workshop	October 4, 2002	• Review proposed improvements in the corridor to identify potential safety and security issues and to provide recommendations to address concerns



The CPT will continue to meet through the design and construction phases.

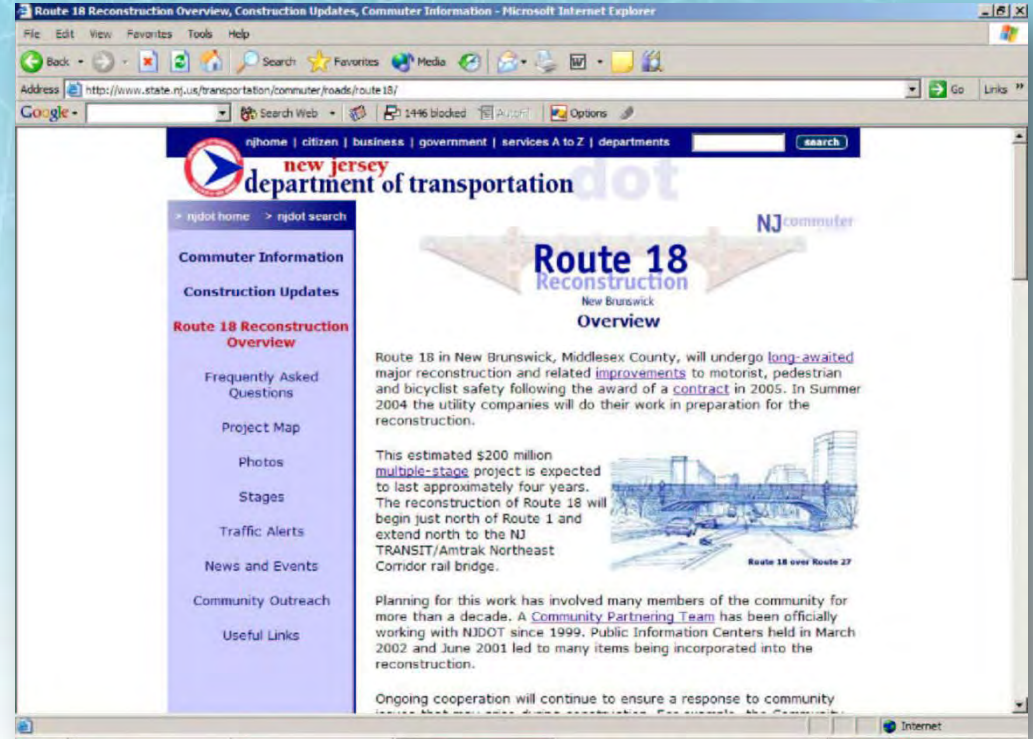


Public Hearing and Information Center Meeting held June 25, 2001 at the Middlesex County Administration Building



Communications Management

- Construction Communications Plan & Network
- Project Website
- Web-based Construction Documents
- Visualizations for Project Phases



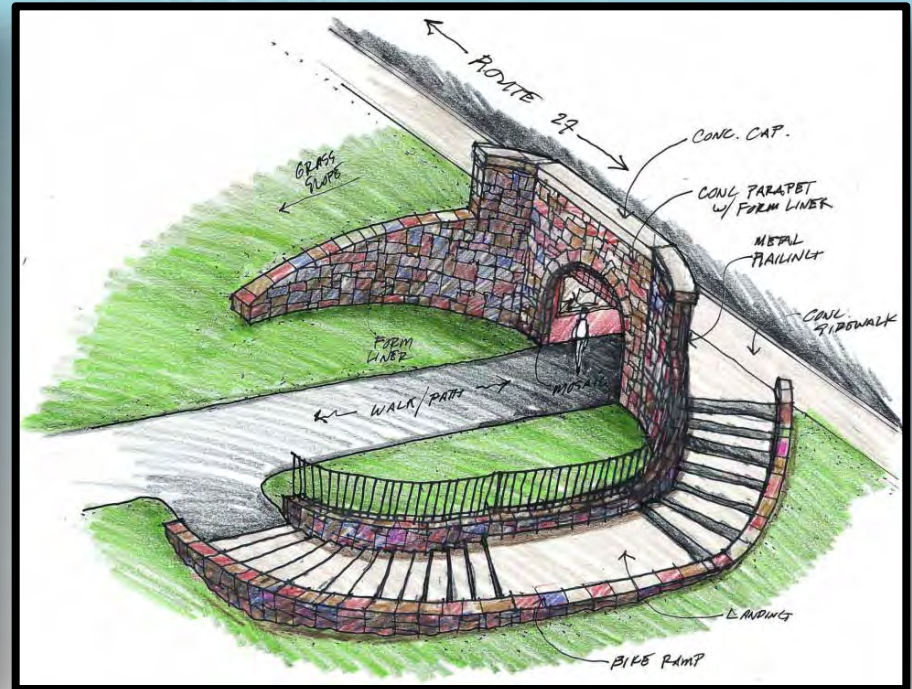
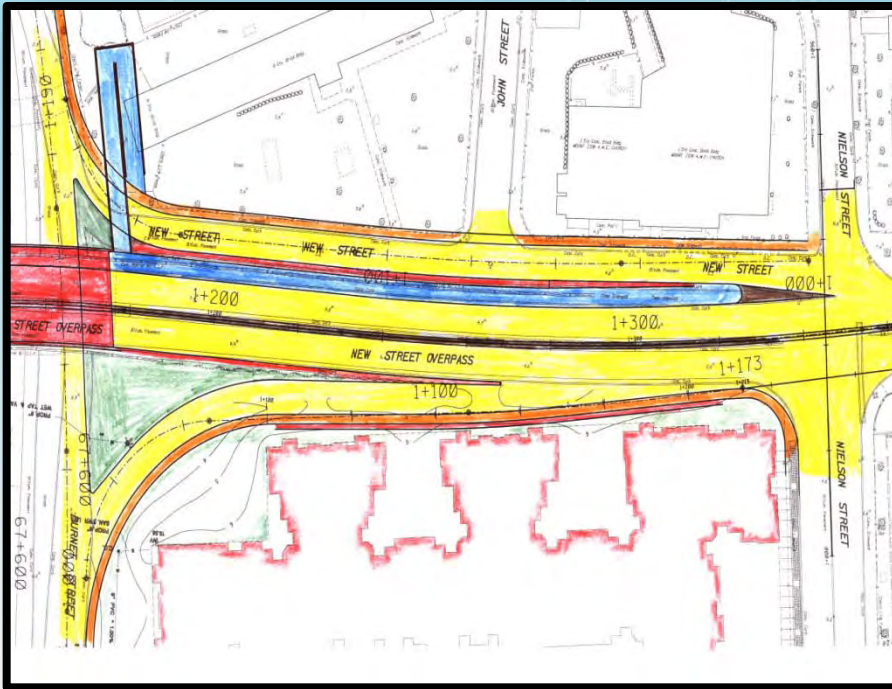
Communications Management

- **Visualization: *Final Scope Development***
 - **Photo Simulations**



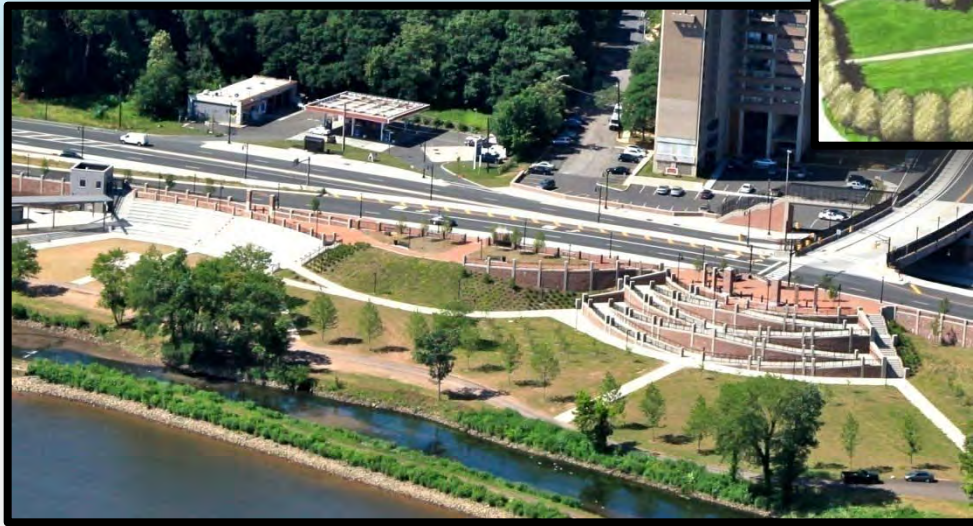
Communications Management

- Visualization: *Final Scope Development*
 - Concept Sketches



Communications Management

- **Visualization: *Design Phase***
 - **Artist Renderings**



Communications Management

- **Visualization: *Design Phase***

- **Scale Model**



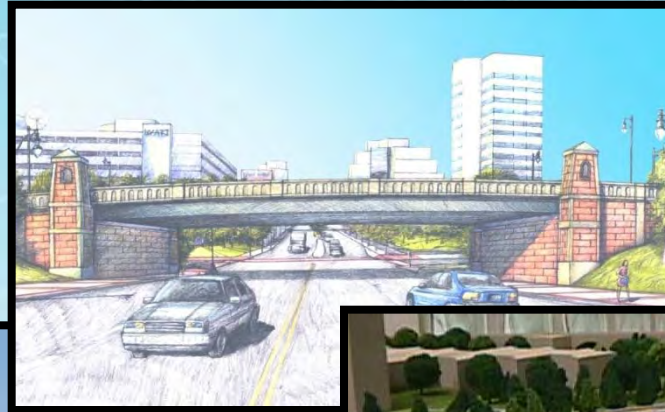
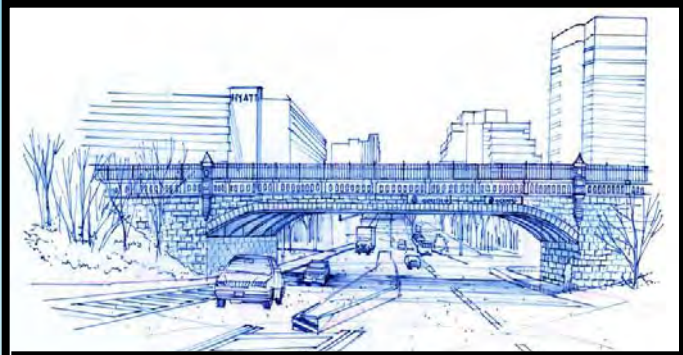
Communications Management

- **Visualization: *Design Phase***



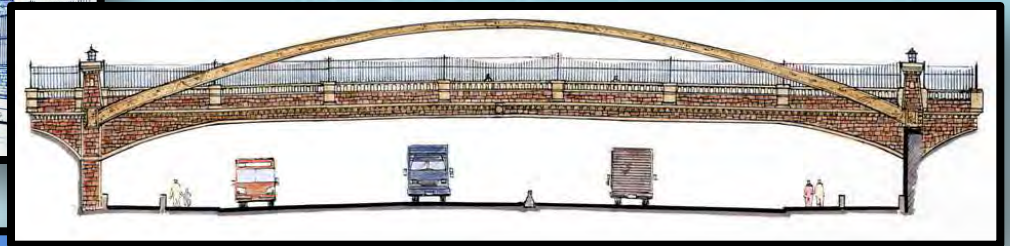
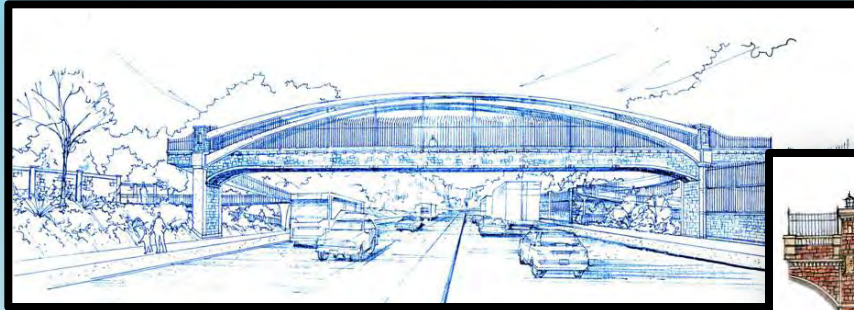
Communications Management

- **Visualization: *Design Phase***



Communications Management

- **Visualization: *Design Phase***



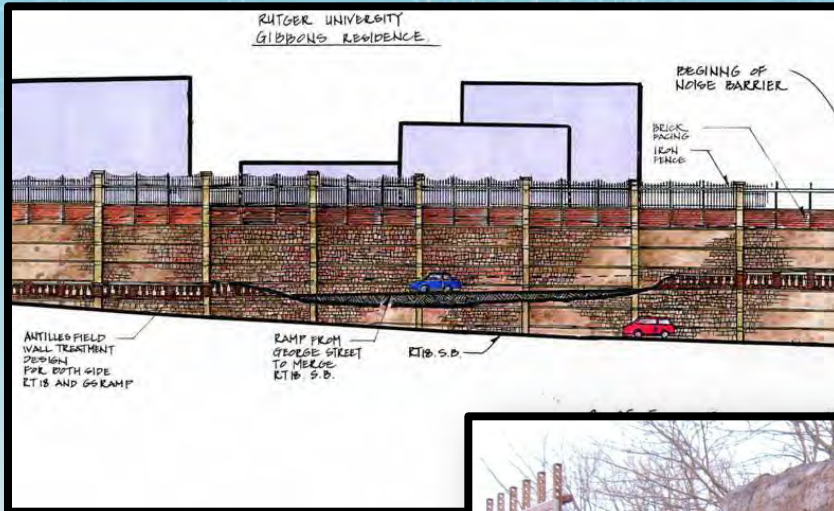
Communications Management

- **Visualization: *Mock-ups, Material Samples***



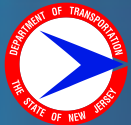
Communications Management

- Visualization: *Mock-ups, Material Samples*



Risk Management

- **Multi-discipline Constructability Workshop**



Panel Discussion

Moderator

**Steve Lavelle, Executive Manager
NJDOT Project Management Office**

Panel

Tom Loughlin – Administrator, City of New Brunswick

Frank Wong – Exec. Director, Planning, Rutgers Univ.

Pat Hogan – Conti Enterprises, CEO

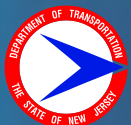
Pamela Garrett – NJDOT Environmental Resources

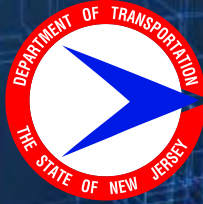
Bill Birch – NJDOT PM (FSD)

John McCleerey – NJDOT PM (Design)

Martine Culbertson – M.A. Culbertson, Facilitator

Darryl Johnson – Gannett Fleming, Design PM





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