



AGENDA

1. INTRODUCTION

Bruce Riegel/JoAnn Asadpour, NJDOT

2. MEETING OBJECTIVE

Ileana Ivanciu, Dewberry

3. DESCRIPTION OF PREFERRED ALTERNATIVE

Craig Johnson, Dewberry

4. WETLANDS

Brian Sayre, Dewberry

5. FLOOD HAZARD AREA

Eric Boschen, Dewberry

6. MITIGATION

Eric Boschen, Dewberry

7. STORMWATER MANAGEMENT

Eric Boschen, Dewberry

8. OTHER CONCERNS

Brian Sayre/Jim Heeren, Dewberry

9. **DISCUSSION**



INTRODUCTION

Bruce Riegel/JoAnn Asadpour
NJDOT



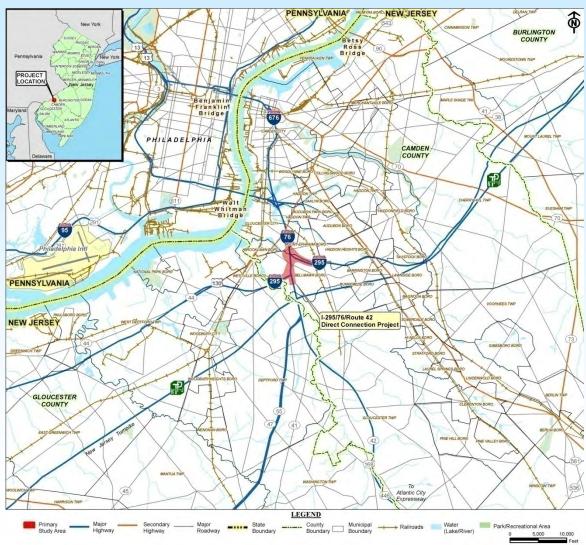


I-295/I-76/Route 42 **Direct Connection Camden County**

www.state.nj.us/transportation/works/studies/rt295

GLOUCESTER CITY INTERCHANGE Northmont MOUNT EPHRAIM BELLMAWR INTERCHANGE

PROJECT AREA MAP







TO PHILADELPHIA MOUNT EPHRAIM 295 TO TRENTON -LEGEND Ramp Designation Roadway TO ATLANTIC CITY

PREFERRED ALTERNATIVE







DESIGN AND CONSTRUCTION SCHEDULE

➤ Preliminary Design August 2010

➤ Permit Submissions Spring 2011

➤ Final Designs Fall 2011

> Anticipate four construction contracts

✓ Funding could influence schedule

✓ Start 2012

✓ Complete by 2017







AGENCIES INVOLVED

- > NJDEP (various units)
- > EPA
- > USACE
- > DVRPC
- ➤ US Fish and Wildlife Service
- US Department of Commerce
- ➤ National Marine Fisheries Service
- Coast Guard
- ➤ Delaware River Basin Commission



I-295/I-76/Route 42 **Direct Connection**Camden County www.state.nj.us/transportation/works/studies/rt295

CONSTRAINTS







ENVIRONMENTAL DOCUMENTATION

- ➤ Draft Environmental Impact Statement (DEIS)
 - ✓ November 2007
- Final Environmental Impact Statement (FEIS)
 - ✓ December 2008
- Record of Decision (ROD)
 - ✓ Signed by FHWA on Friday, March 20, 2009
 - ✓ Allows for project's detailed design phase to begin





MEETING OBJECTIVE

Ileana Ivanciu **Dewberry**







MEETING OBJECTIVE

- Discuss Permitting Needs
- > Process
- > Schedule





I-295/I-76/Route 42 **Direct Connection**Camden County

CONSTRAINTS

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STREAMLINING THE ENVIRONMENTAL PROCESS

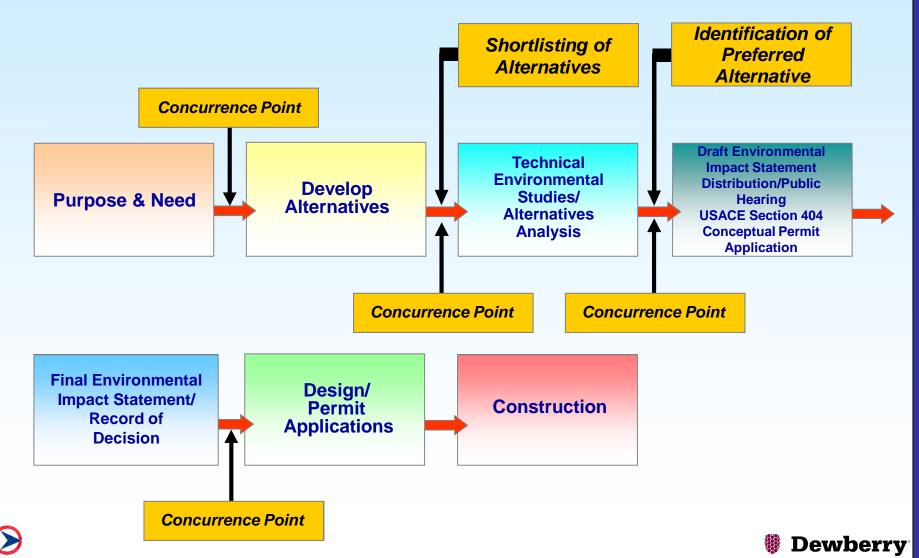
- ➤ Open & Honest Process
- Clearly Defined Expectations
- Consistent Participation
- ➤ Open Communication







NEPA / 404 PROCESS





STREAMLINING GOALS

- ➤ Select Best Alternative to Avoid, Minimize and Mitigate Impacts to the Greatest Extent Possible
- Build Consensus During the Process
- ➤ Minimize Environmental Review Time
- > No Surprises at the Permitting Stage







STREAMLINING PRINCIPLES

- Each agency will be respected for its role and responsibility
- ➤ Work together to find an acceptable, though not necessarily perfect, solution compatible with the agency's mission and with the project's purpose and need
- Agencies will strive to provide sufficient staffing to be an effective player
- Conflict resolution can be initiated by any agency at any stage to resolve any concerns

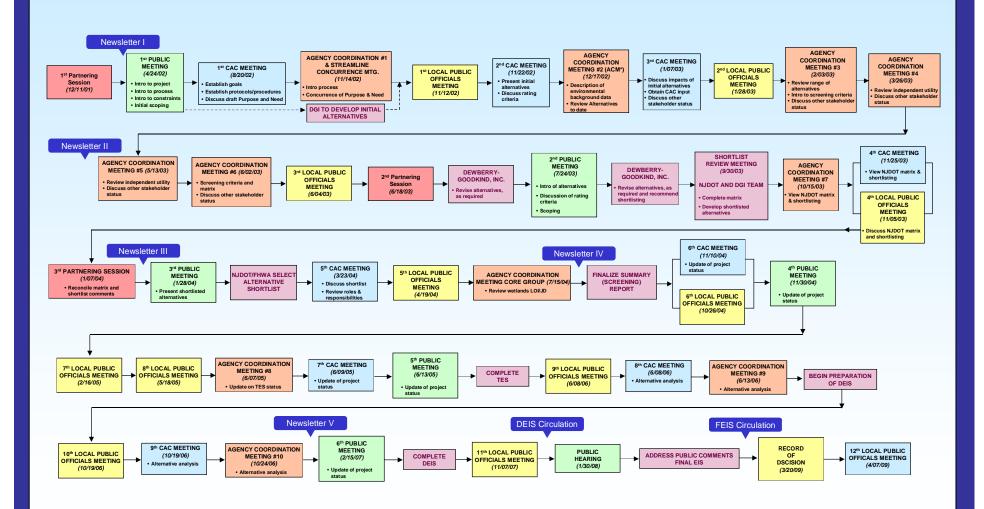






PROJECT FLOW CHART

www.state.nj.us/transportation/works/studies/rt295









MEASURES OF SUCCESS

- Concurrence on Project Purpose and Need
- Independent Utility
- Field Work to Define Wetlands Jurisdiction and Verify Field Delineation
- Alternatives Development
- ➤ Alternatives Screening
- ➤ Alternatives Recommended for Further Study
- ➤ Alternatives Analysis
- ➤ EIS/Section 4(f) Evaluation
- USACE Permit Application
- Memorandum of Agreement
- Record of Decision







PERMITTING STATUS

- ➤ JD and LOI issued February 2005
- ➤ USACE Nationwide Permit 6 issued for boring program April 2009
- ➤ LOI Extension required before February 2010

 ✓ Field visit to verify line
- ➤ USACE Provisional permit anticipated before February 2010





PERMITS/APPROVALS

> NJDEP - LURP

- ✓ Individual Freshwater Wetlands
- ✓ Coastal Wetlands
- ✓ Waterfront Development
- ✓ Water Quality Certificate
- ✓ Coastal Zone Management Compliance Statement
- ✓ Individual Flood Hazard Area
- ✓ Stormwater Management Review
- ✓ Tidelands Instrument







SCHEDULE

➤ Pre-application Spring 2010

➤ Preliminary Design August 2010

➤ Permit Submissions Spring 2011

➤ Permit Approvals Fall 2011

Final Designs Fall 2011

Construction 2012-2017



DESCRIPTION OF PREFERRED ALTERNATIVE

Craig Johnson
Dewberry





TO PHILADELPHIA MOUNT EPHRAIM 295 TO TRENTON -LEGEND Ramp Designation Roadway TO ATLANTIC CITY

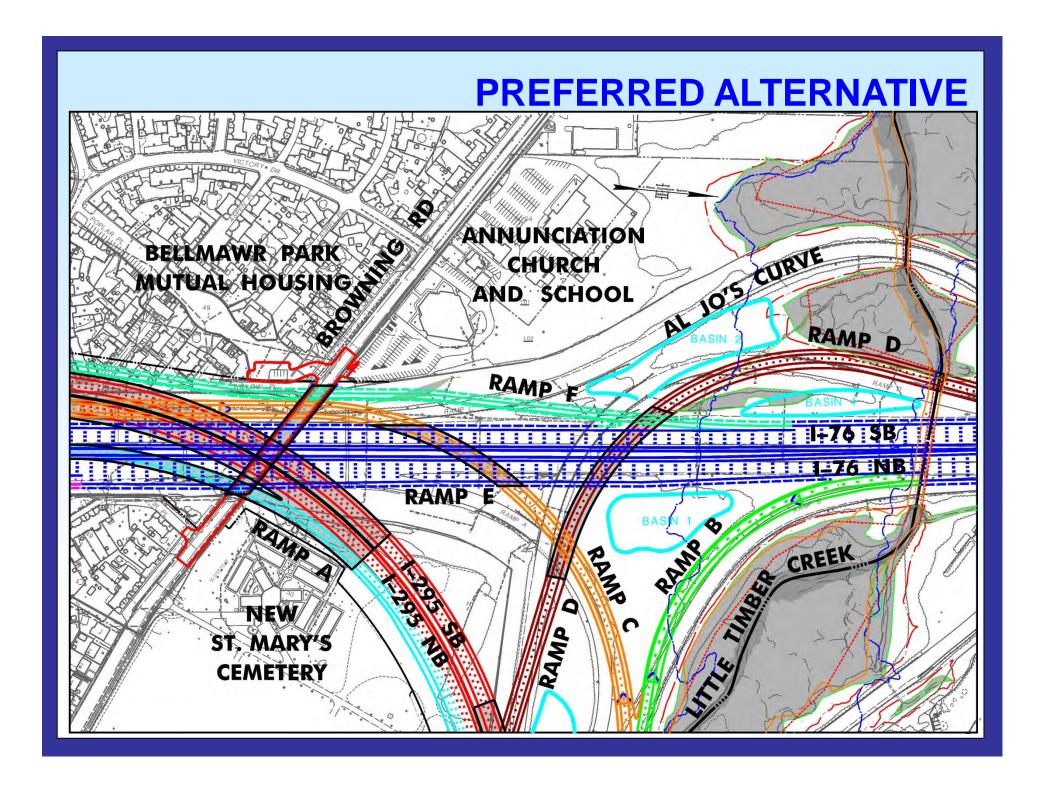
PREFERRED ALTERNATIVE

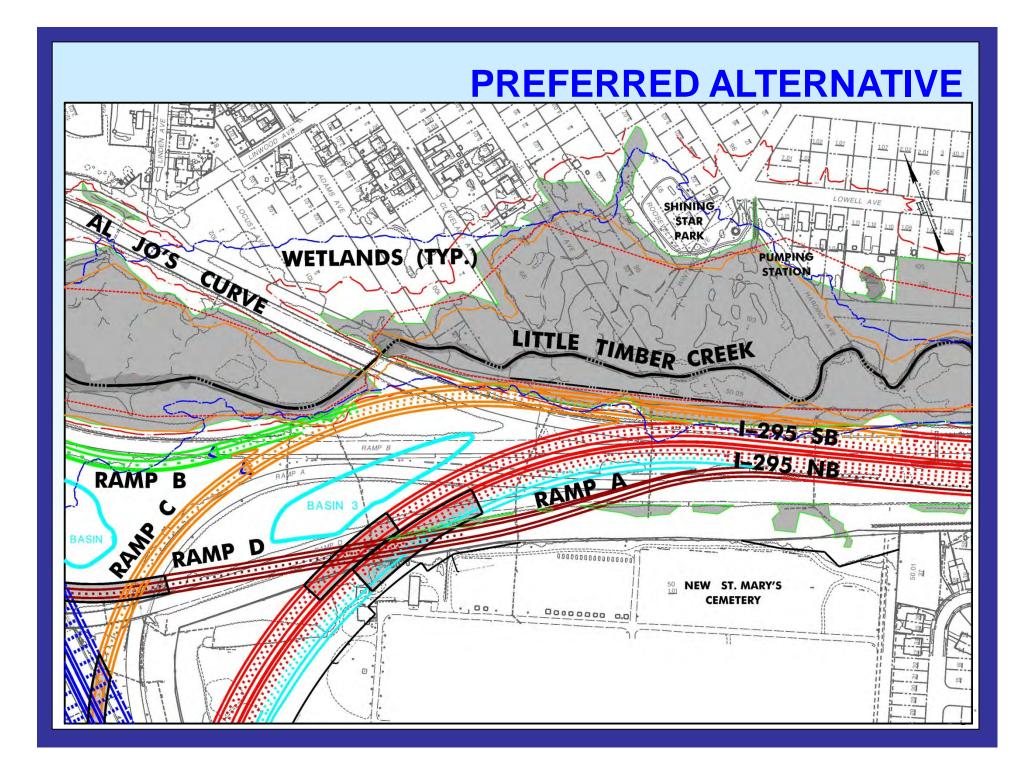




PREFERRED ALTERNATIVE BIG TIMBER CREEK TRIBUTARY FLOODWAY FLOOD HAZARD AREA (APPRO TIDELANDS CLAIMS LINE 1970 WETLANDS BOUNDARY WETLANDS BOUNDARY PROPOSED ROW STATE OPEN WATER

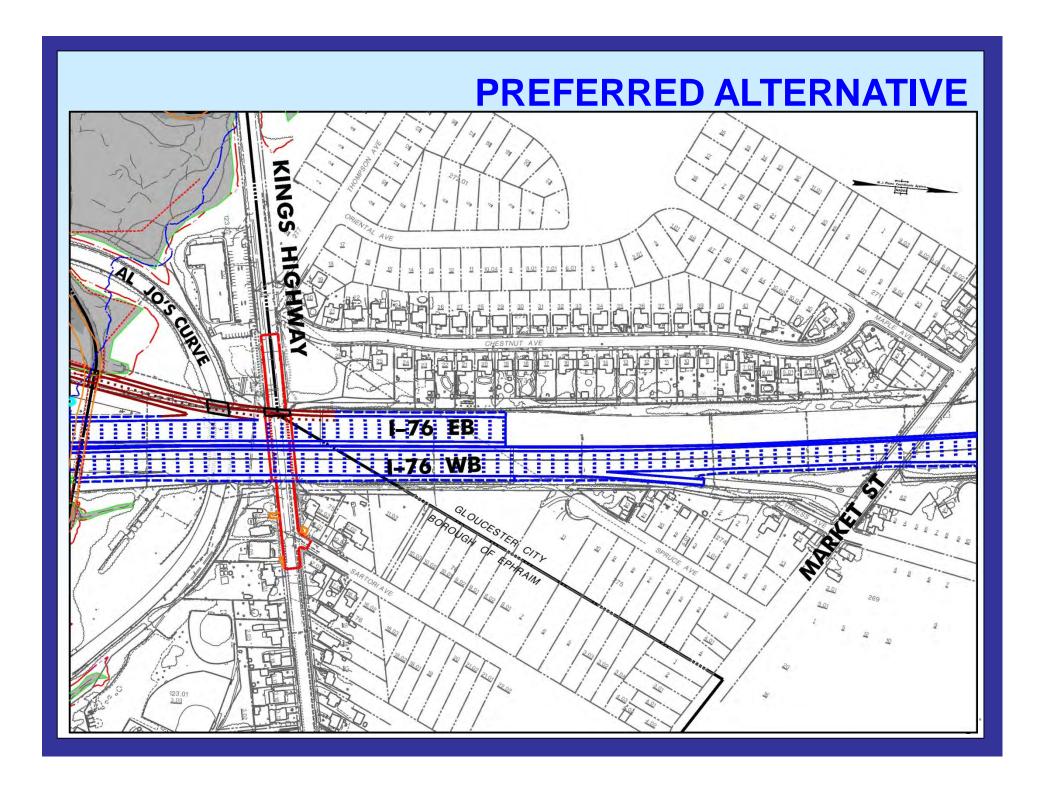
PREFERRED ALTERNATIVE ESSEX AVE RT. 42 NB RAMP E



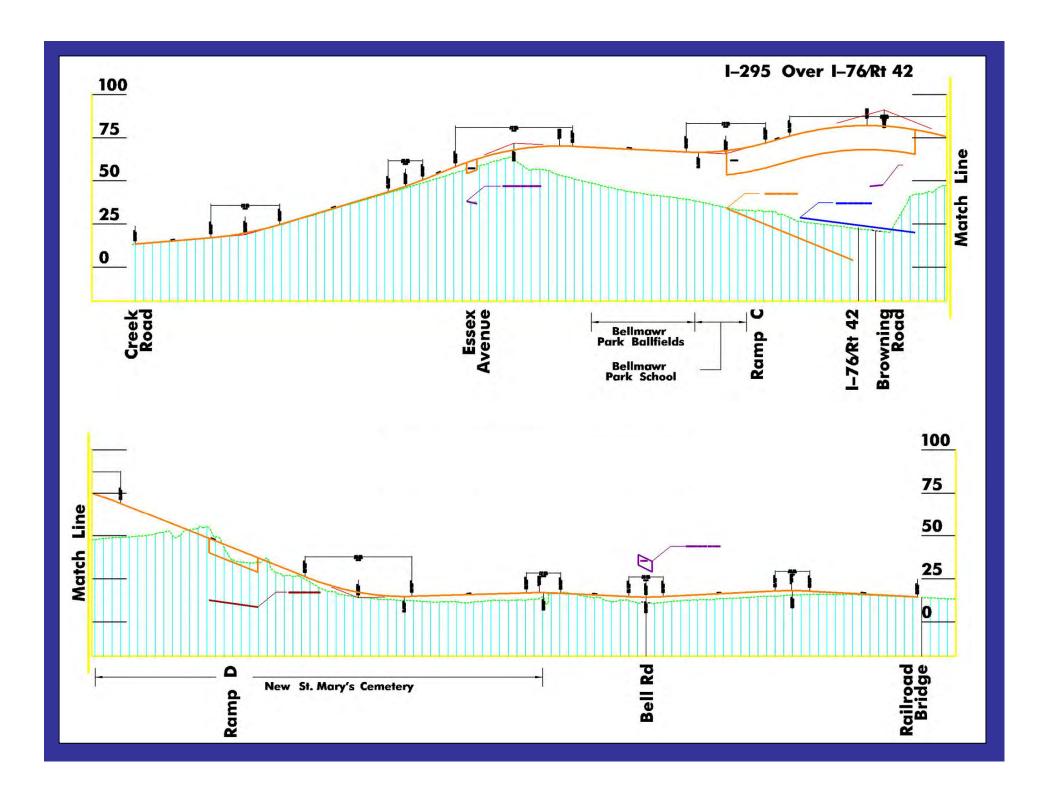


PREFERRED ALTERNATIVE BOROUGH OF MT EPHRAIM LITTLE COMBER CREEK BELLMAWA 1295 SB 444444 **12295** 14 NB 1841 RAMP D Т RESURRECTION CEMETERY 8.01

PREFERRED ALTERNATIVE **PUMPING STATION** RAILROAD **OVER I-295**

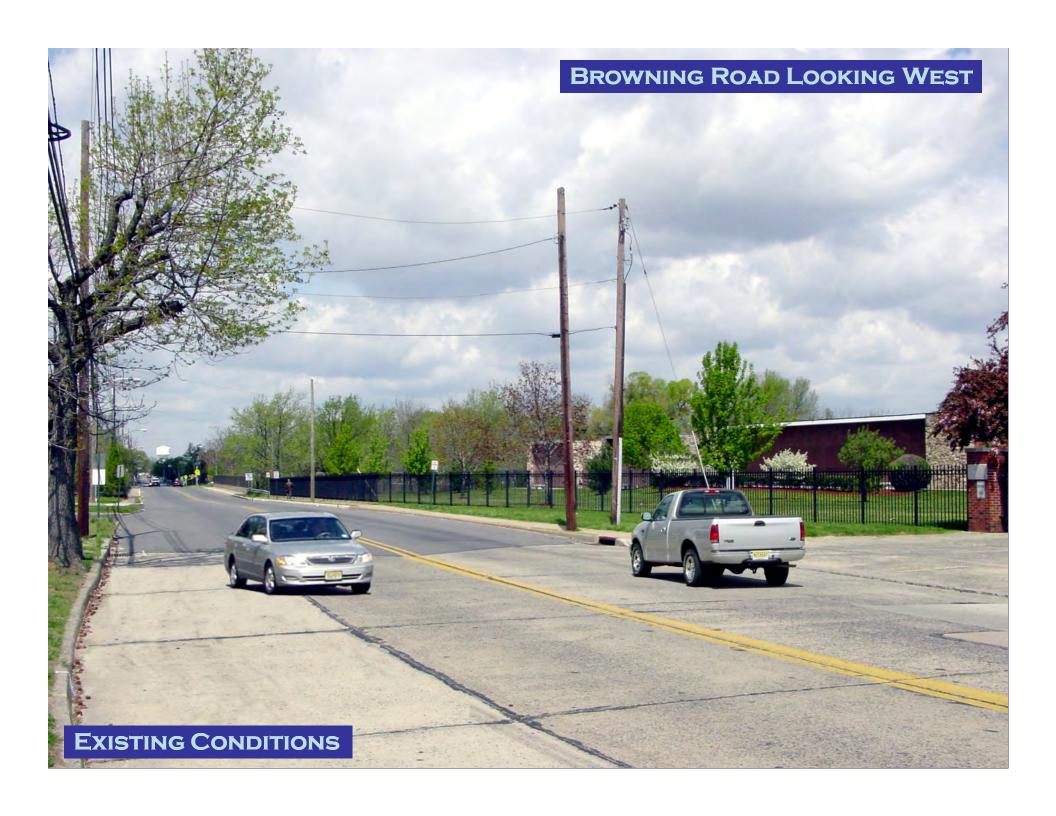


PREFERRED ALTERNATIVE 87. 130 NB 1-76 EB 130 SB











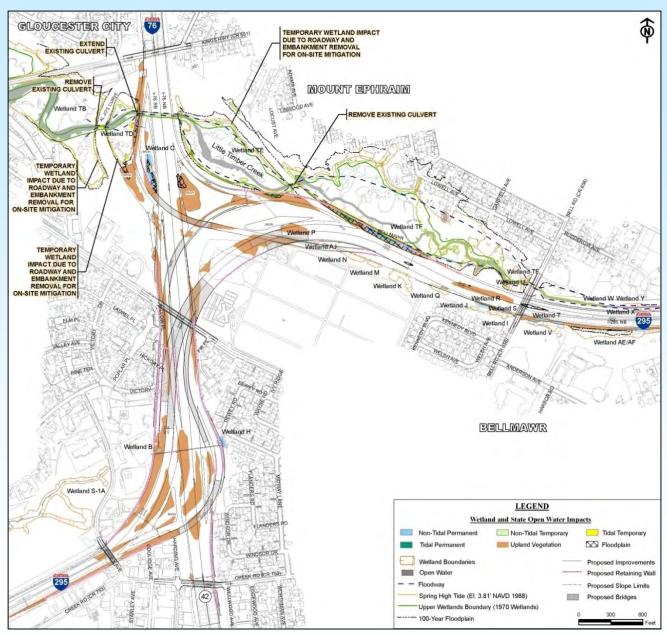




Brian Sayre Dewberry

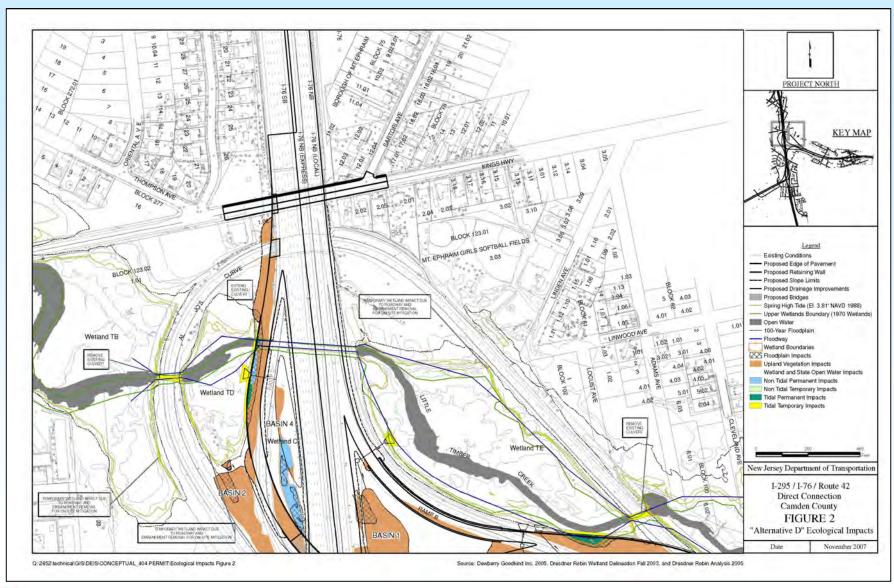






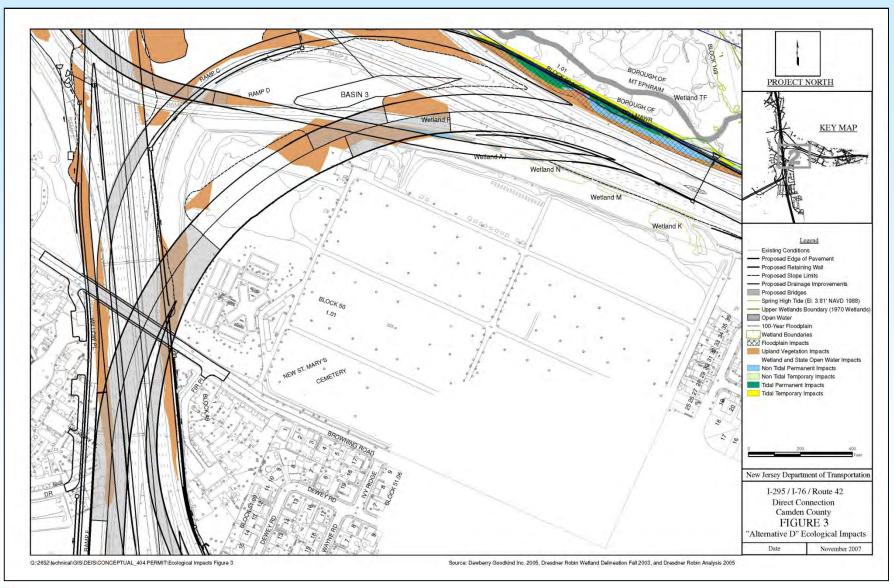






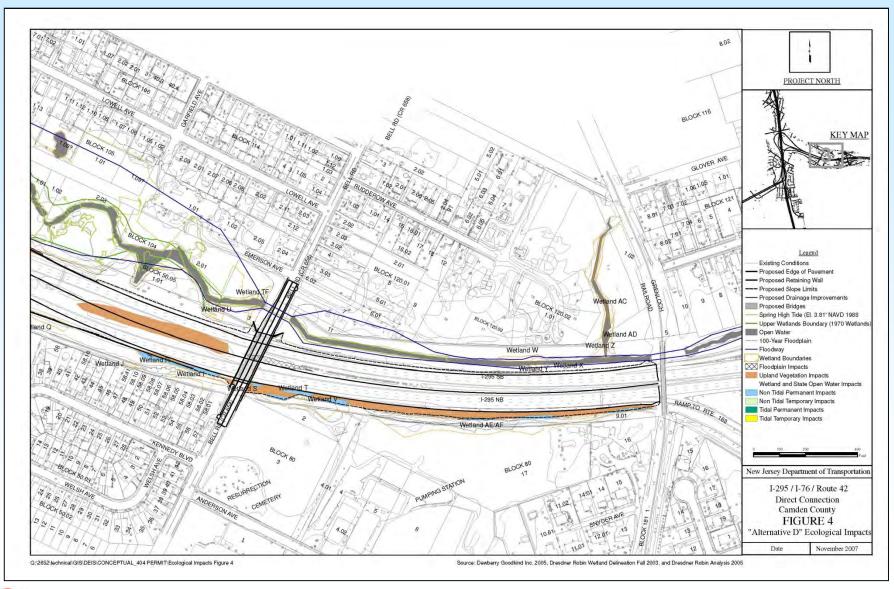
























WETLAND IMPACTS

WETLAND RESOURCES	PERMANENT IMPACTS (ACRES)	TEMPORARY IMPACTS (ACRES)	
Freshwater Tidal	0.6	0.6	
State Open Water (Tidal)	0.01	0.1	
Freshwater (Non-Tidal)	1.3	0.3	
State Open Water (Non-Tidal)	0.04	0	
Total Wetland and SOW Impacts	1.97	0.98	
Wetland Transition Area Impact	3.6	NA	





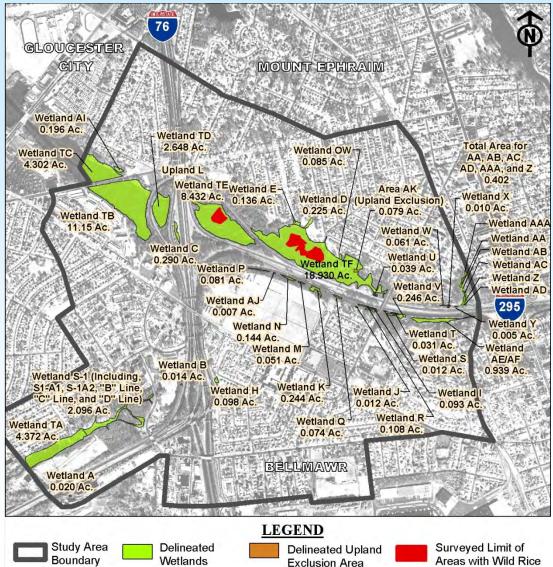
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WILD RICE







2,000

1,000

Eric Boschen Dewberry







Regulated Waters, Areas and Activities

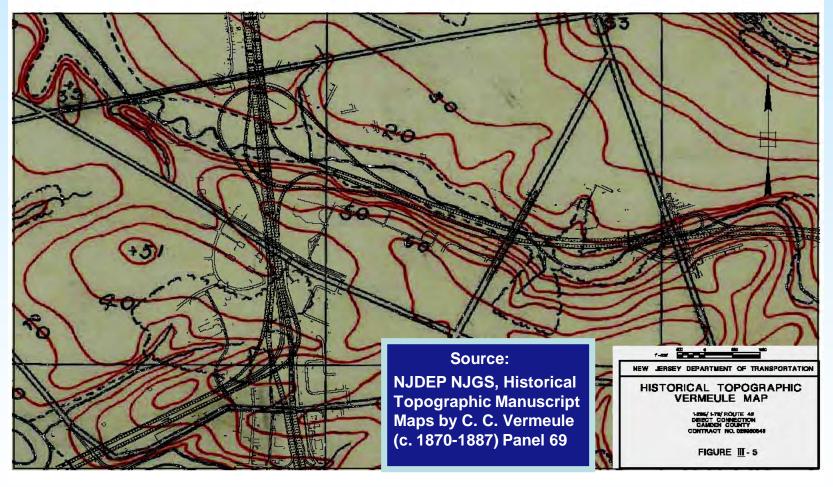
- Requires Individual Permit and Verification
- Regulated Waters:
 - ✓ Little Timber Creek (LTC) and Tributary
 - ✓ Big Timber Creek (BTC) Tributary
- Regulated Areas:
 - ✓ Flood Hazard Area: LTC and BTC Tributary
 - ✓ Riparian Zone: LTC, LTC Tributary, BTC Tributary
- Regulated Activities Include:
 - ✓ Bridges & Culverts
 - ✓ Grading, Fill and Vegetation Disturbance
 - ✓ Outfalls
 - ✓ Stormwater Management (6 Basins)







Regulated Waters – Historic Mapping



Confirmed Regulated Waters and Areas Based on NJDEP Historical Topographic Manuscript Maps.







Flood Hazard Area and Riparian Zone Limits

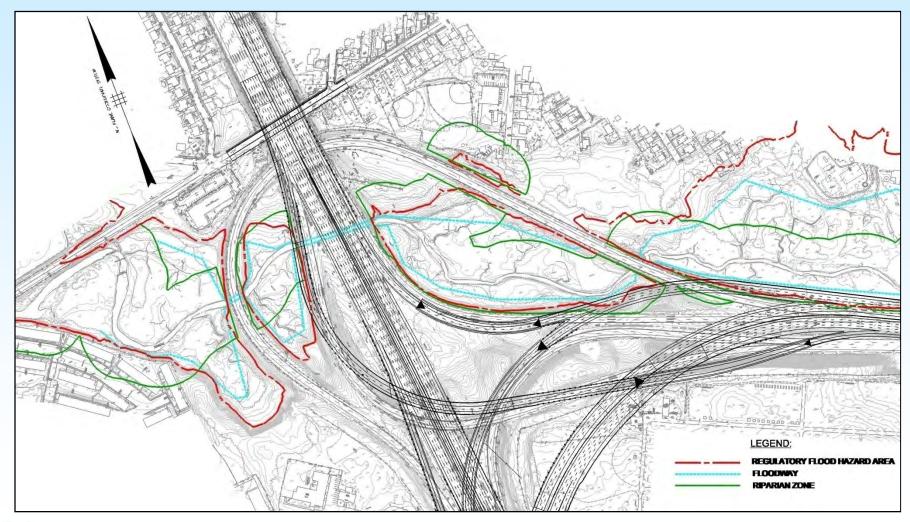
- ➤ Waterways Not Delineated by NJDEP and FEMA
- ➤ Computed FHA and Floodway Limits (NJDEP Method 6)
- Little Timber Creek:
 - ✓ Delaware River 100-Year Tidal Controls to Bell Road
 - ✓ Fluvial Control Upstream of Bell Road
- ➤ Big Timber Creek Tributary:
 - ✓ Fluvial Control Within Project Limits
- > Riparian Zone:
 - ✓ 150' Based on Acid Producing Soils Formations







Flood Hazard Area and Riparian Zone Limits
Little Timber Creek

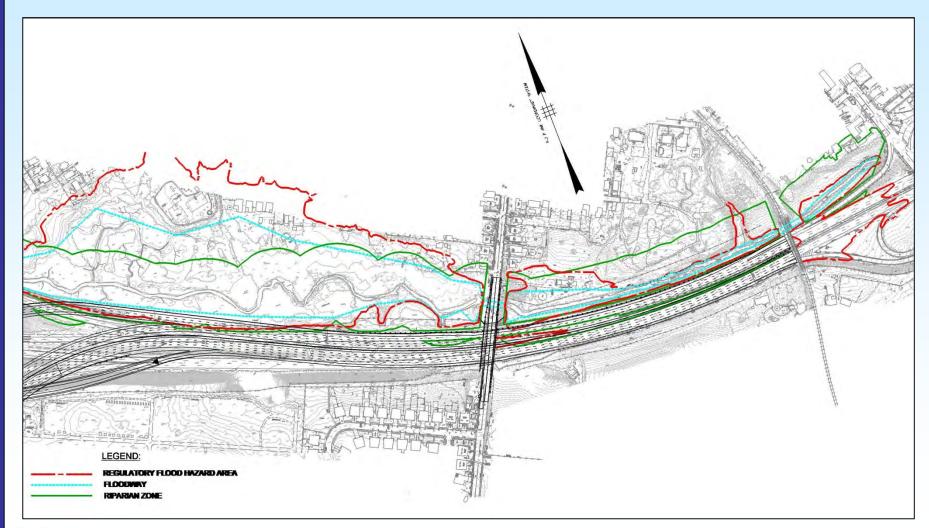








Flood Hazard Area and Riparian Zone Limits
Little Timber Creek

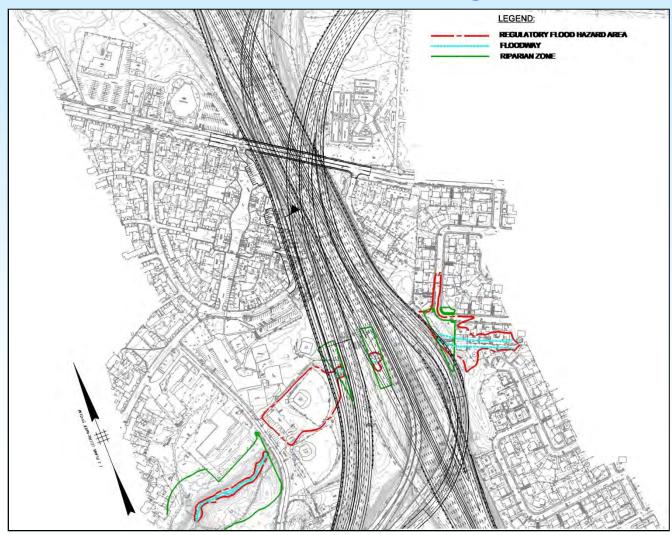








Flood Hazard Area and Riparian Zone Limits
Big Timber Creek Tributary









Flood Hazard Area Impacts

Little Timber Creek

- > Tidal Control Downstream of Bell Road:
 - ✓ Water Surface Elevation & Net Fill Requirements Not Applicable
 - Extend Culvert at Ramp D
 - ✓ Minor Fill for Walls & Roadway Improvements
 - ✓ Remove Portion of Al Jo's Curve
- Fluvial Control Upstream of Bell Road:
 - ✓ No Change in FHA Design Flood Elevation
 - Minor Fill for Roadway Improvements
 - ✓ Minimize Impacts with Walls
 - ✓ Compensating Excavation Upstream of Bell Road

Big Timber Creek Tributary

- ➤ I-76 Culvert Replacement
- Maintain Existing FHA Design Flood Elevation
- Minimal Flood Fringe Fill







Riparian Zone Impacts

WATERWAY REGULATED AREA	DEGIII ATED ADEA	TEMPORARY IMPACTS GRASS (ACRES)	PERMANENT IMPACTS		
	REGOLATED AREA		TREES (ACRES)	GRASS (ACRES)	TOTAL (ACRES)
LTC and Tributary	Riparian Zone Wetlands/Riparian Zone	0.9 0	2.3 0.8	1.5 0.5	3.8 1.3
BTC Tributary	Riparian Zone	0	0.6	0.3	0.9

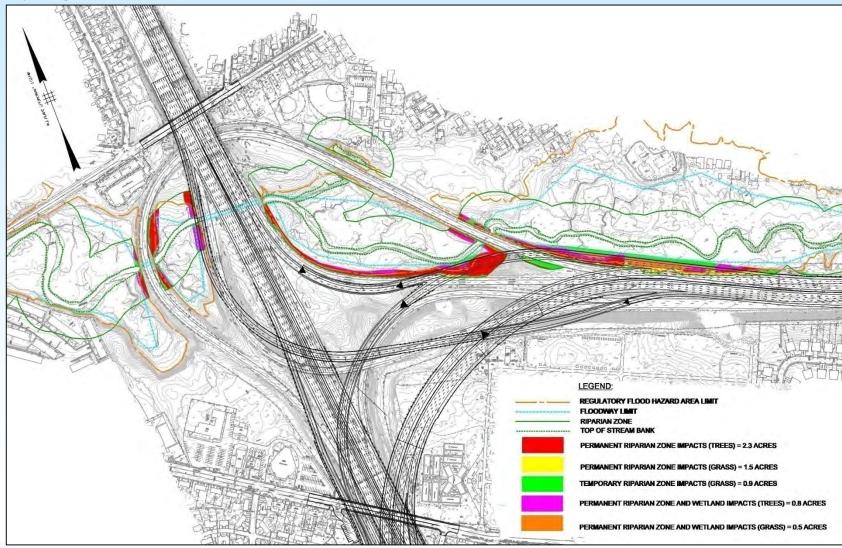
- \triangleright Total Permanent Impacts = 6.0 Acres
- ➤ Allowable Impacts Various Activities = 1.3 Acres
- \triangleright Excess Impacts = 4.7 Acres
- > Preliminary Estimate of Mitigation Required = 9.4 Acres (Based on 2:1)







Riparian Zone Impacts – Little Timber Creek

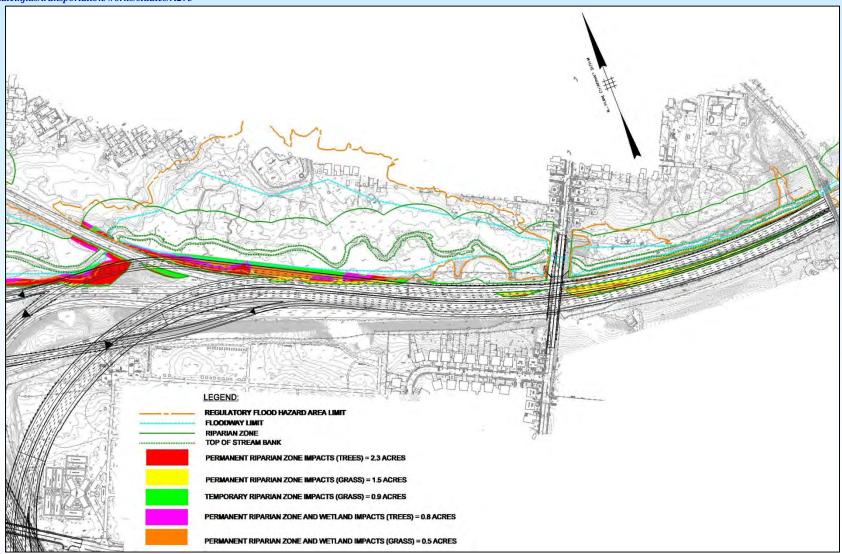








Riparian Zone Impacts – Little Timber Creek



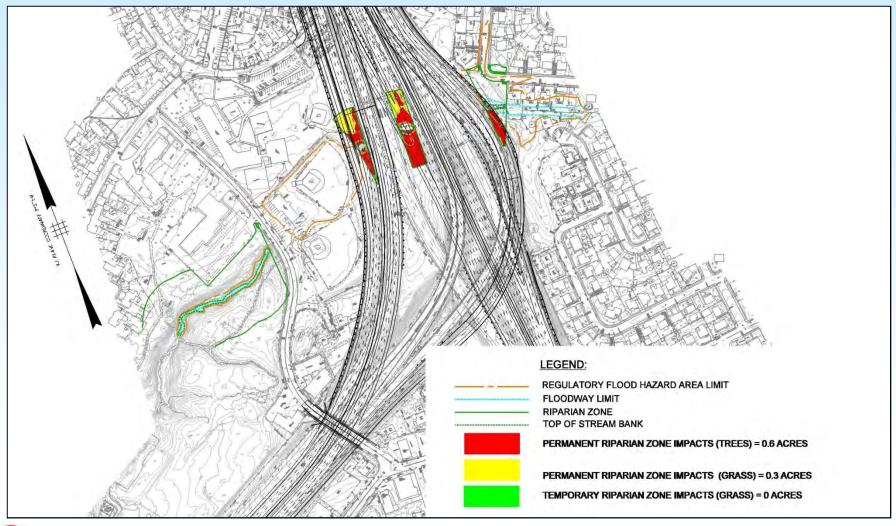






Riparian Zone Impacts – Big Timber Creek Tributary

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MITIGATION

Eric Boschen/Brian Sayre
Dewberry



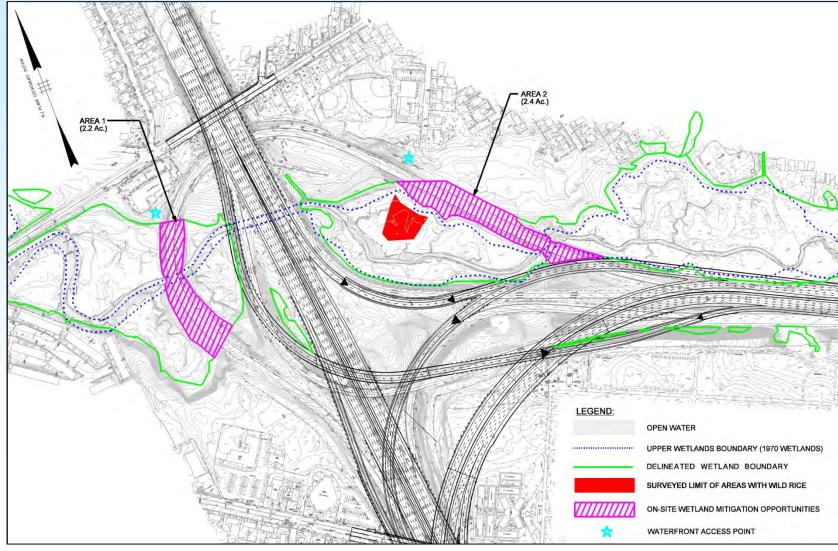




MITIGATION

Wetlands/Waterfront Access

www.state.nj.us/transportation/works/studies/rt295









MITIGATION Riparian Zone

Proposed Mitigation:

- ➤ Located along Little Timber Creek and Tributary
- ➤ Mitigation:
 - ✓ Pavement Removal, Tree Planting Enhancement = 7.3 Acres
 - ✓ Includes Combined Wetland/Riparian Zone mitigation = 1.1 Acres
- ➤ Remaining Mitigation through Expanded Riparian Zone Enhancement and/or Preservation



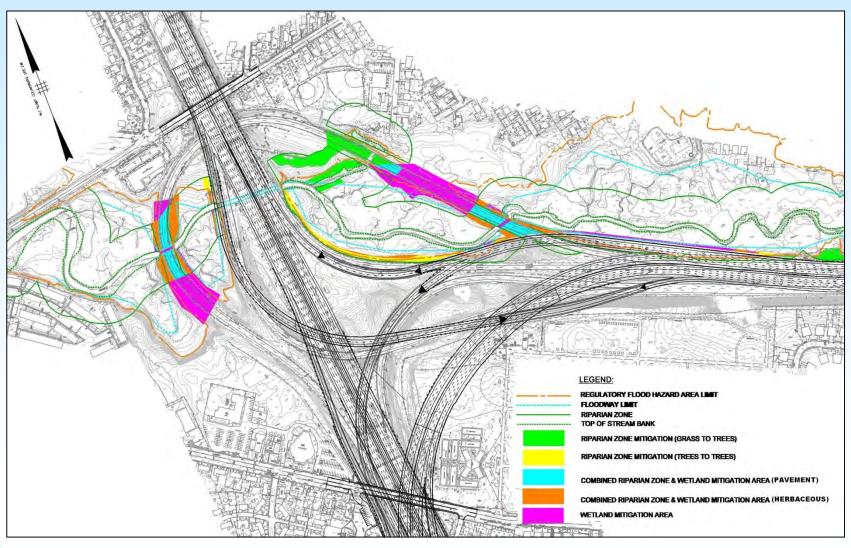




MITIGATION

Riparian Zone

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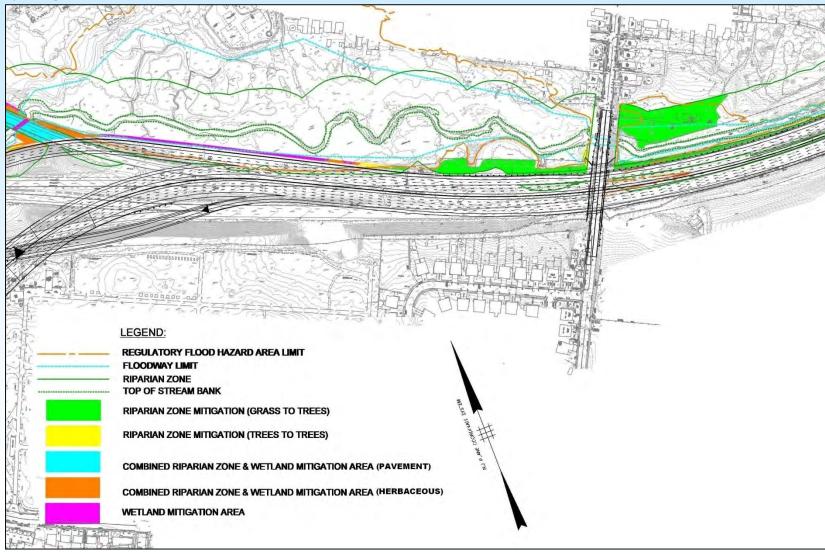




MITIGATION

Riparian Zone

www.state.nj.us/transportation/works/studies/rt295







STORMWATER MANAGEMENT

Eric Boschen Dewberry







STORMWATER MANAGEMENT

- ➤ Watershed: Woodbury / Big Timber / Newton Creeks
- > Subwatersheds:
 - ✓ Big Timber Creek (Below NB/SB Confluence)
 - ✓ Little Timber Creek (Gloucester City)
- Drainage Patterns:
 - ✓ 60% Drains to Tidal Waters (LTC Downstream of Bell Road)
 - ✓ 40% Drains to Fluvial Waters (LTC Upstream of Bell Road, BTC Tributary)
- Preliminary Impervious Cover Changes:
 - ✓ New Pavement: 40 Acres
 - ✓ Reconstructed Pavement: 46 Acres
 - ✓ Pavement Removed: 15 Acres







STORMWATER MANAGEMENT

Stormwater Management Requirements:

- ➤ Tidal Waterways: Water Quality Treatment, Groundwater Recharge
- > Fluvial Waterways: Water Quality and Quantity Treatment, Groundwater Recharge

Proposed Structural Best Management Practices:

- **Basins** (6 Total):
 - ✓ LTC Subwatershed (5 Basins)
 - ✓ BTC Tributary (1 Basin)





OTHER CONCERNS

Brian Sayre/Jim Heeren Dewberry





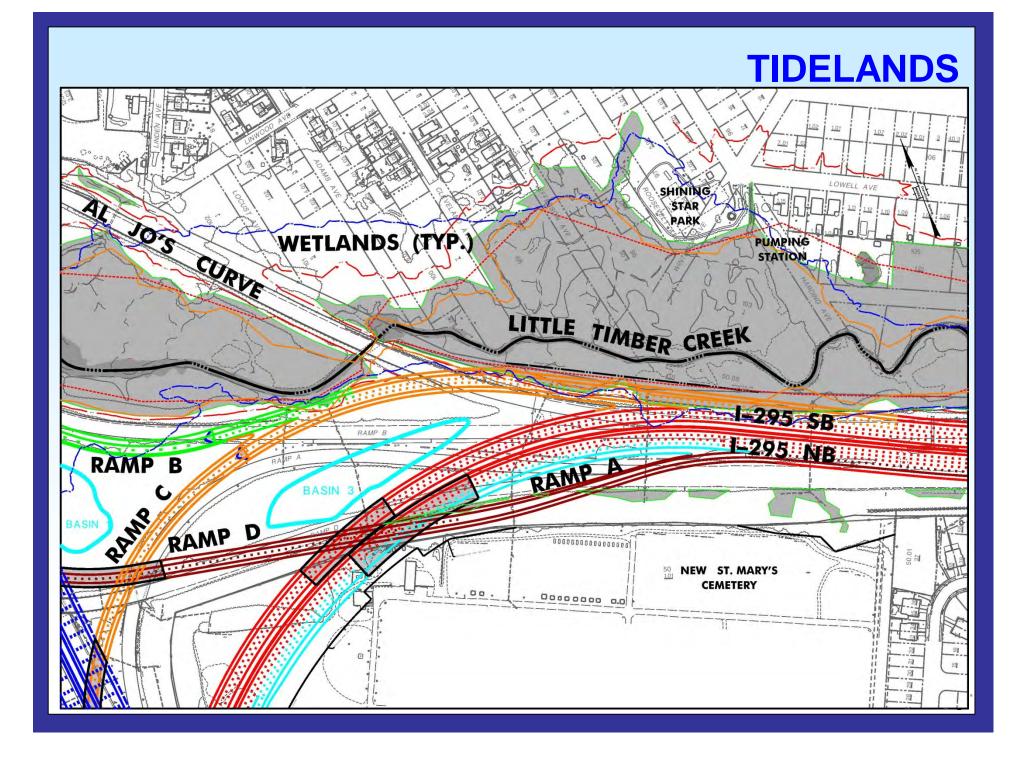


TIDELANDS

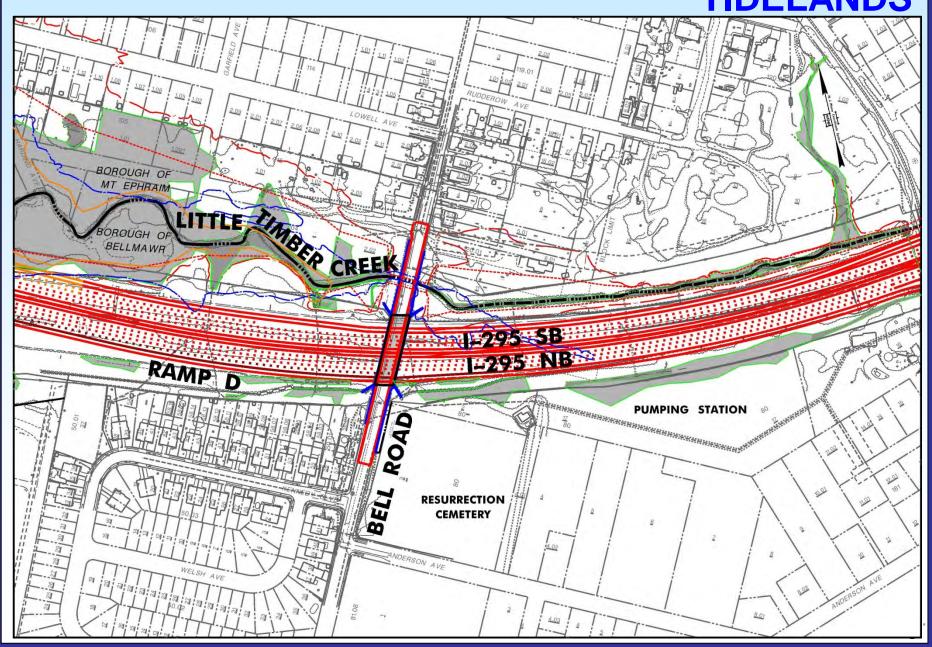
- Existing Tidelands grant needs to be extended to the limits of the Tidelands Claim line north of Bell Road
- ➤ New Tidelands instrument required for new ROW being acquired across from Shining Star Park







TIDELANDS





PERMITS/APPROVALS

- ➤ Pollution Discharge Elimination System Permit (NJPDES)
- **Reforestation**
- > Green Acres
- > Contaminated Materials
- ➤ Cultural Resources







REFORESTATION

- > Determine forest area based on NJDEP grids
- > Determine proposed deforestation area
- ➤ Reforestation plan developed with NJDEP Parks and Forestry
- > Public Forum







GREEN ACRES

- ➤ Field meeting April 2009
- > Encumbered property
 - ✓ Bellmawr Baseball Fields (Disposal of 0.8 acres)
- ➤ Scoping Meeting Early 2010



GREEN ACRES



CONTAMINATED MATERIALS

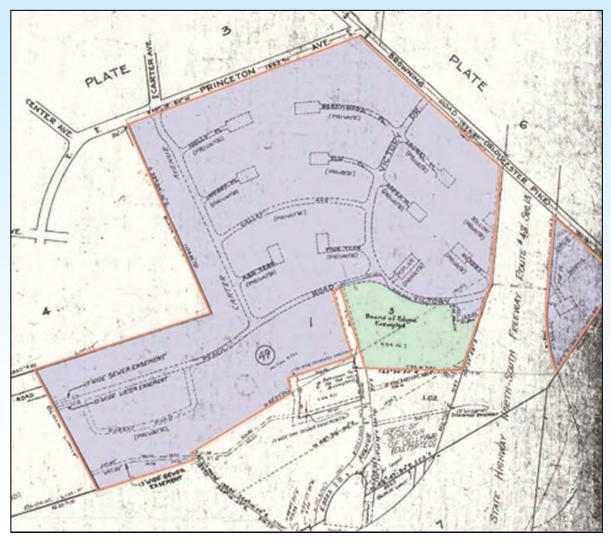
- ➤ Limited Site Investigation
 - ✓ Bill Seas Towing
- Remedial Action Workplan
 - ✓ Bill Seas Towing
 - ✓ Historic Fill Areas







NATIONAL REGISTER ELIGIBLE RESOURCES









CULTURAL RESOURCES MITIGATION

- > Memorandum of Agreement
 - ✓ Conservation Plan
 - ✓ HABS Recordation
 - ✓ National Register Nomination
 - ✓ Signage
 - ✓ New construction
 - ✓ Website







SCHEDULE

➤ Pre-application Spring 2010

➤ Preliminary Design August 2010

➤ Permit Submissions Spring 2011

➤ Final Designs Fall 2011





SUMMARY OF PERMITS/APPROVALS

- ➤ USACE Provisional Permit
- NJDEP LURP
 - ✓ Individual Freshwater Wetlands
 - ✓ Coastal Wetlands
 - ✓ Waterfront Development
 - ✓ Water Quality Certificate
 - ✓ Coastal Zone Management Compliance Statement
 - ✓ Individual Flood Hazard Area
 - ✓ Stormwater Management Review
 - ✓ Tidelands Instrument
- NJDEP Parks & Forestry Reforestation
- ➤ NJDEP Green Acres
- > NJDEP Site Remediation Remedial Action Workplan
- ➤ NJDEP Historic Preservation MOA commitments





DISCUSSION



