

NJTPA 2016 Local Concept Development Study Bergen & Essex Counties Kingsland Avenue Bridge over the Passaic River



Public Information Center



October 17, 2016

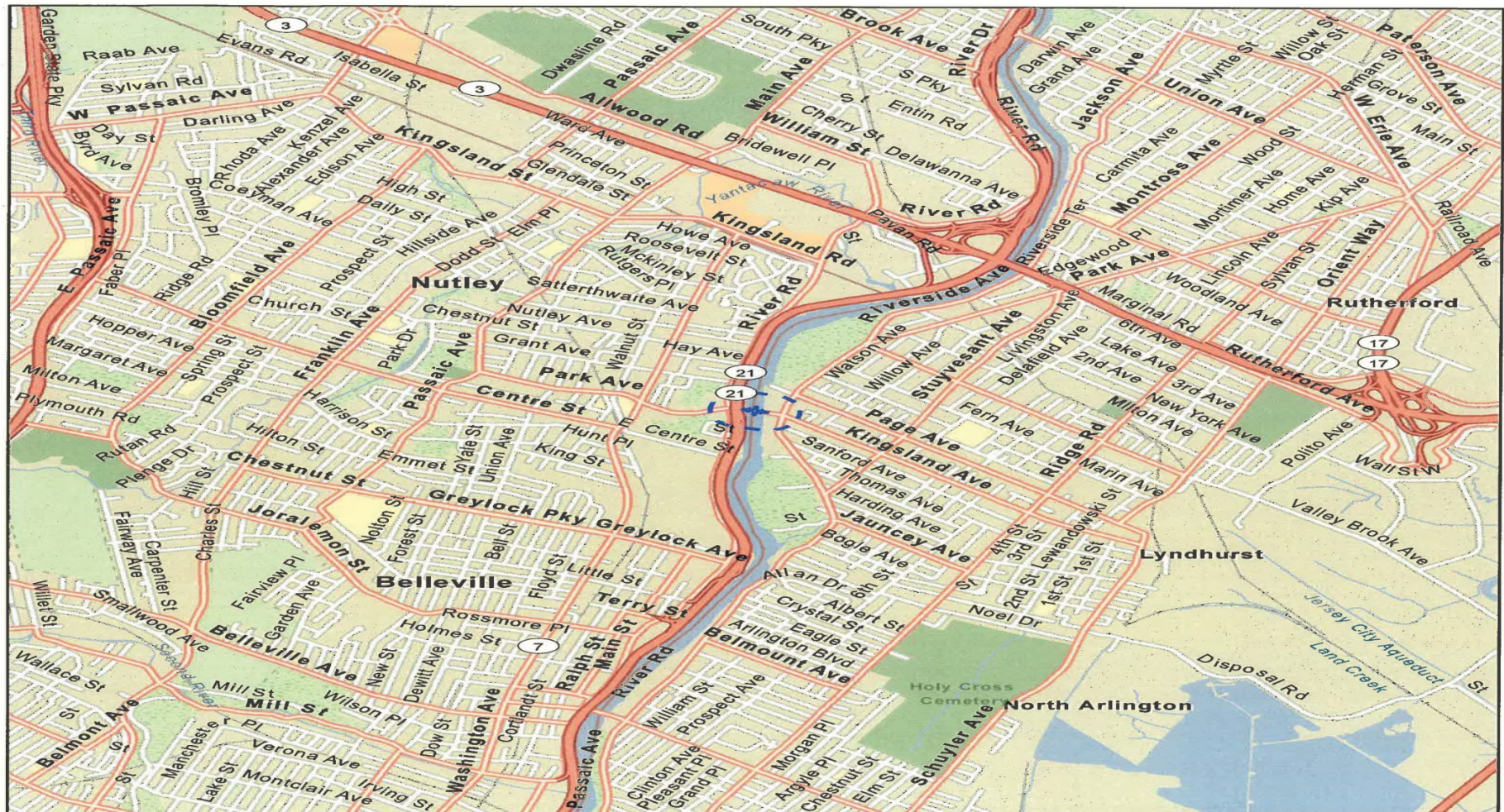




Project Site Location Map



U.S. Department of Transportation
Federal Highway Administration



Legend

- Kingsland Avenue Bridge Study Area
- Kingsland Avenue Bridge Location



Source:
ESRI Street Map North America, Tele Atlas North America, Inc.,
published by ESRI® Data & Maps, Redlands, California, 2010.

Figure 1
Site Location Map

Kingsland Avenue Bridge over Passaic River
Lyndhurst Township, Bergen County
and Nutley Township
Essex County, New Jersey

ASCEI Project # 3994



3,000
Feet

AMY S. GREENE
ENVIRONMENTAL
CONSULTANTS

Project Overview and Background

- Bridge Spans the Passaic River connecting the Townships of Nutley & Lyndhurst
- Kingsland Avenue Bridge was built in 1905.
- Bridge is in need of major rehabilitation or replacement.
- Routine maintenance can no longer address deficiencies.
- NJTPA/Bergen & Essex County Local Concept Development (LCD) Study initiated June 2016 utilizing federal funding
- Local Capital Project Delivery Process provides opportunity to advance this project with public input and agency collaboration.

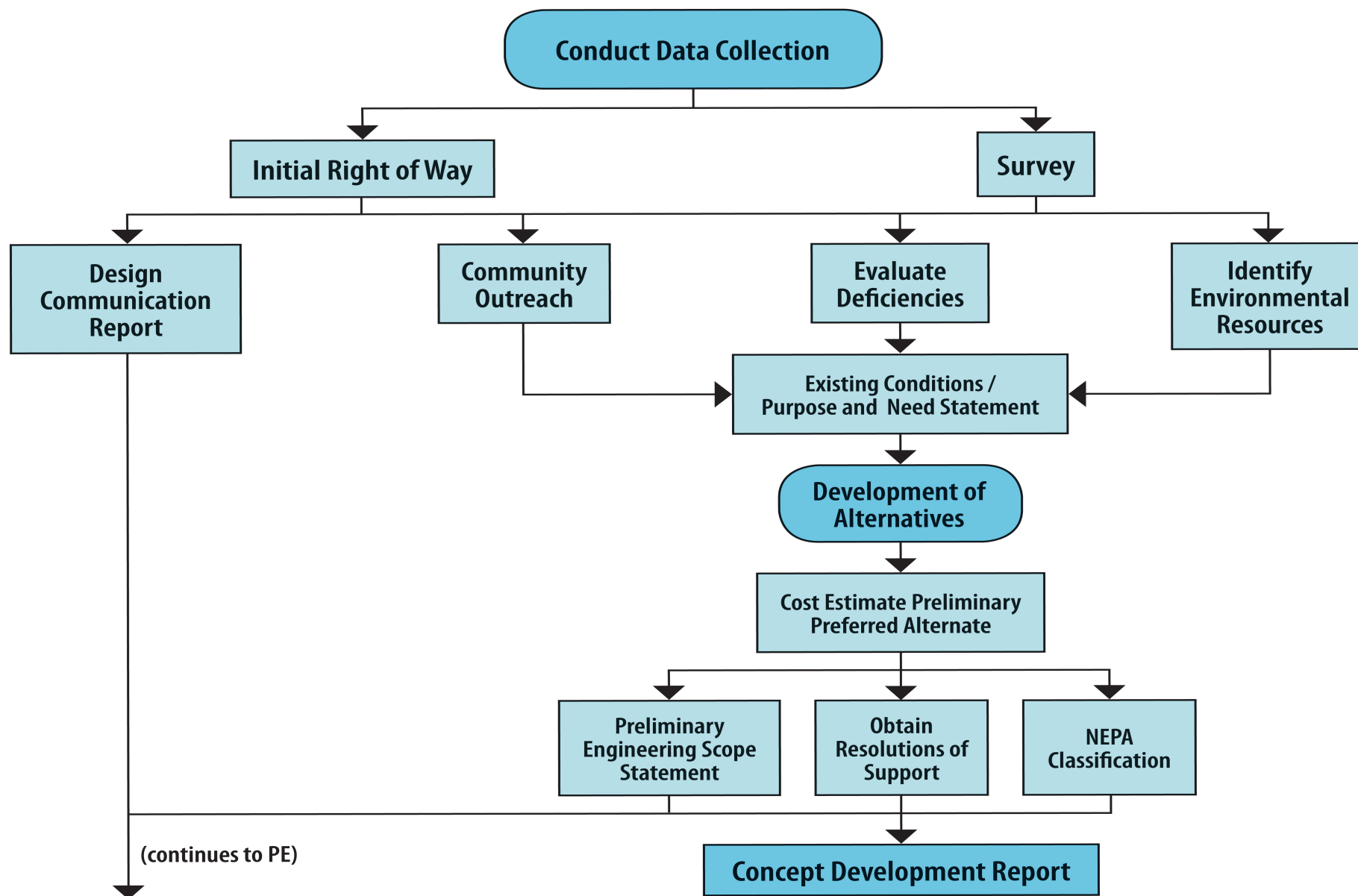


Local Capital Project Delivery Process

Local Concept Development	Local Preliminary Engineering	Final Design/ Right of Way Acquisition	Construction
Data Collection	Approved Design Exception Report	Construction Contract Documents and PS&E package	Complete Construction
Purpose and Need Statement			
Concept Development & Alternatives Analyses	Cost Estimates (Final Design, ROW and Construction)	Environmental Reevaluations	Continue Public Outreach
Selection of Preliminary Preferred Alternative	Approved Environmental Document	Secure Environmental Permits	As-Builts
Environmental Screening Report & NEPA Classification	Preliminary Design	Acquisition of ROW	Update and Finalize Design Communications Report
Concept Development Report	Preliminary Engineering Report	Final Utility Relocation Schemes	Close-out Documentation
Initiate Public Outreach & Involvement	Continue Public Outreach & Involvement	Continue Public Outreach & Involvement	



Local Concept Development Process



Environmental Process

- Federally funded projects require NEPA (National Environmental Policy Act) documentation
- Identify environmental resources and concerns
- Avoid, minimize and or mitigate environmental impacts
- Coordination with permitting agencies
- Process includes public input and community development



Kingsland Avenue Bridge Data

- Year Built: 1905 (Major rehab. 1986)
- Bridge type: 4 spans- two-span riveted Warren through-truss rim-bearing swing center span (204 ft), west and east approach steel through pony truss spans (80 ft)
- Overall Length: 364 feet
- Bridge Roadway Width: 29' – 3"
- No Shoulders on bridge
- 6 foot wide cantilevered sidewalk on both sides
- Bridge Navigational Vertical Clearance in closed position: 7 feet (at MHW); Horizontal Clearance = 65 feet



Existing Bridge Condition

- Bridge in poor overall condition and is Structurally Deficient – (2014 Bridge Re-evaluation Report)
- Sufficiency Rating = 24.3 (out of 100)
- Superstructure in poor condition: Rating = 4 out of 10 (severe corrosion and/or loss of section of below deck truss members, gusset plates, floor beams, and stringers)
- Bridge may soon need to be load posted due to advancing deterioration of steel support members

Existing Bridge Condition (continued)

- Substructure in satisfactory condition – Rating = 6 out 10
- Bridge railings are substandard
- Bridge operating machinery in overall fair condition but has only one set of brakes and the span lock machinery has failed (both conditions non-compliant with AASHTO)
- Bridge electrical and control systems are in overall fair condition, although many parts do not conform or are in violation of current standards
- Needs approx. **\$ 7.3 M** in remedial repairs

Existing Bridge Condition



Bridge East Approach Roadway Looking West – Note no shoulders



Bridge Opening Looking West at Route 21 & Township of Nutley

Existing Bridge Condition



West approach to bridge at River Road & Park Avenue intersection



West approach to bridge at intersection with Route 21 ramps & Park Ave.

Existing Bridge Condition



Bridge looking east towards Township of Lyndhurst



Bridge Opening Looking East at Township of Lyndhurst

Existing Bridge Condition



Kingsland Ave & Riverside Avenue intersection looking east



Project Goal: Improve Bicycle Compatibility

Existing Bridge Condition



Project Goal: Compatibility with Passaic River Waterfront Walkway



Passaic River Waterfront Walkway looking south

Existing Bridge Condition



Geometric Constraint for Raising Bridge Roadway Profile: Route 21 Bridge

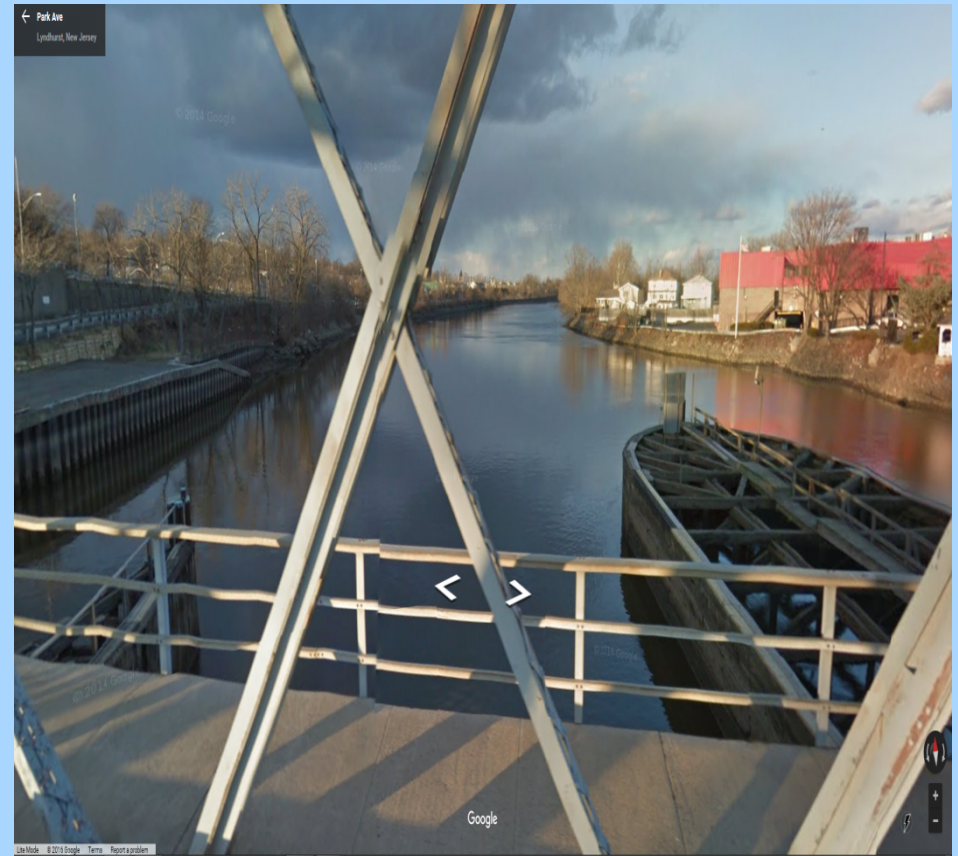


Route 21 Ramp approaching Park Avenue

Passaic River Navigation



Bridge Navigation: 7-ft vertical clearance at MHW, 65-ft channel width



Looking upstream from bridge; note boat ramp on west bank

Passaic River Navigation



Looking Downstream from bridge



Looking upstream from boat ramp on west bank

Existing Bridge Condition



Substandard vertical clearance



Substandard bridge railing (typical)

Existing Bridge Condition



Floor beams & stringers of East Approach Span



Moderate to heavy corrosion of stringers in swing span

Existing Bridge Condition



Severe corrosion of stringers in West Approach Span



Swing Span Center Pivot

Existing Bridge Condition



Severe corrosion of top of east approach pony truss & deterioration of rivets



Corrosion of west approach pony truss span

Existing Bridge Condition



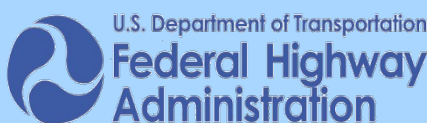
Advanced decay through center pier fender system looking upstream



Advanced decay through pier fender system looking downstream

Additional Significant LCD Phase Elements

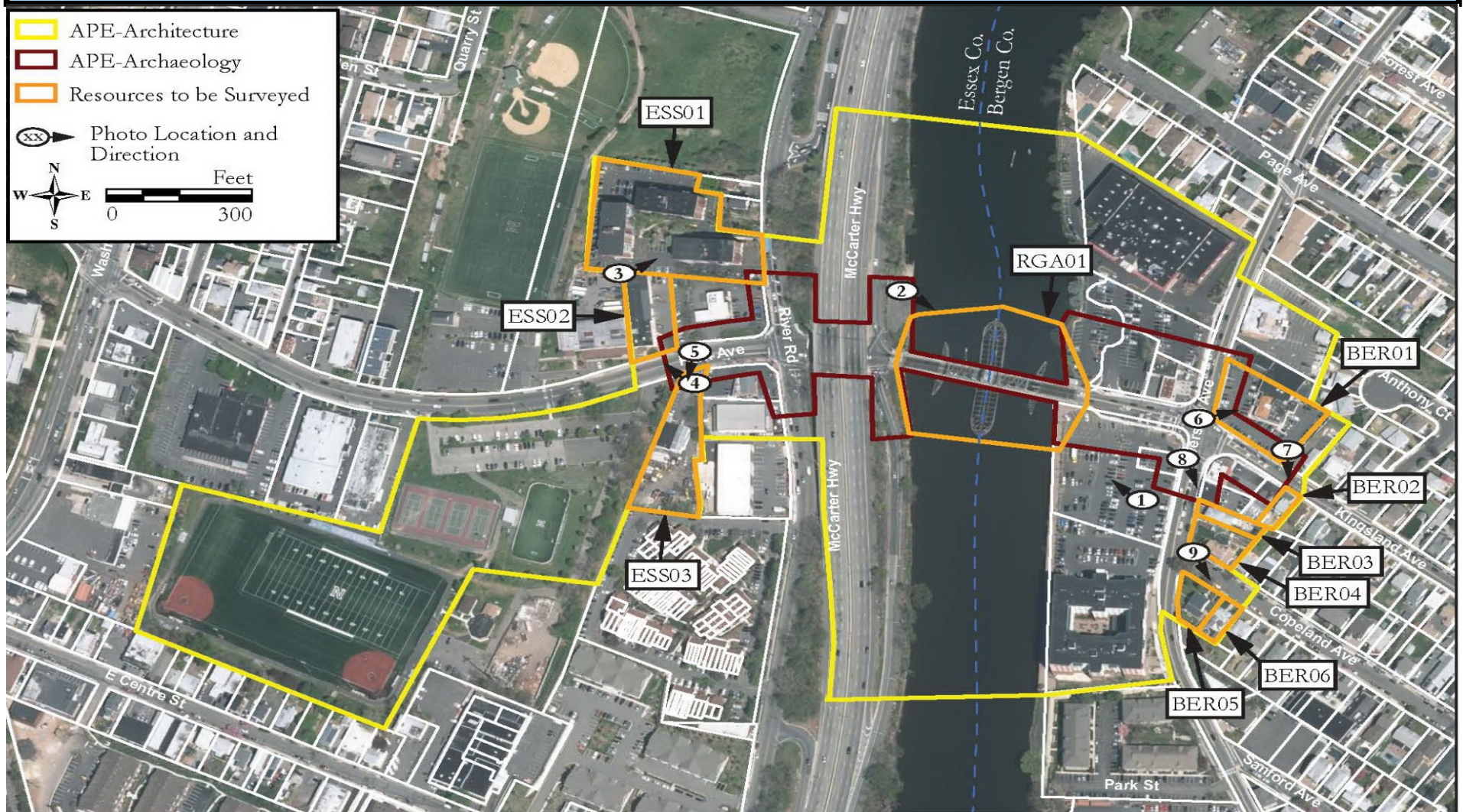
- Navigation Impact Report for Clay Street, Bridge Street and Kingsland Avenue Bridges
- Entire Completion of Cultural Resources (Section 106) Process
- Value Engineering
- Risk Analysis Assessment



Environmental Constraints



Cultural Resources



Project Status

- Work began June 2016
- Data Collection On-Going
 1. Project Mapping & Field Survey
 2. Environmental Screening
 3. Cultural Resources Study
 4. Verification of Utilities
 5. Obtain Bridge Inspection Reports, Traffic Data, Crash Data
 6. Conduct Traffic Counts & Perform Traffic Analysis
 7. Identify Existing Substandard Design Elements
 8. Local Officials, Stakeholders and Public Outreach & Input
 9. Project Fact Sheet
 10. Develop Project Purpose and Need



Project Schedule

- 18 to 21 month completion schedule
- Major Milestones
 1. Project Purpose and Need – Fall 2016
 2. Development of Conceptual Alternatives – Winter 2017
 3. Determine Preliminary Preferred Alternative (PPA) – Fall 2017
 4. Submit Draft Concept Development Report – Fall 2017
 5. Completion of Concept Development Phase – Winter 2018



Community Involvement

- Community Involvement Schedule
 1. Local Officials Briefings: Project Purpose & Need - July 25, 2016 (Twp. of Nutley); July 27, 2016, Twp. of Lyndhurst
 2. Stakeholders Meeting No. 1: Purpose & Need – Sept. 29, 2016
 3. Public Information Center Meetings (No. 1): Project Purpose & Need – Oct. 17, 2016 (Townships of Nutley & Lyndhurst)
 4. Stakeholders Meeting No. 2: Input on Alternatives – Winter/Spring 2017
 5. Local Officials Briefings (No. 2): Input on Alternatives & Determine Preliminary Preferred Alternative – Spring/Summer 2017



Community Involvement (continued)

6. Public Information Center Meetings (No. 2): Input on Alternatives & Determine Preliminary Preferred Alternative – Spring/Summer 2017 (Townships of Nutley & Lyndhurst)
7. Local Officials Briefings (No. 3): Obtain Resolution of Support for Preliminary Preferred Alternative (Town of Harrison & City of Newark)



Local Officials Briefings (7/25 & 7/27/16)

Comments from Local Officials Briefings No. 1 (Townships of Nutley & Lyndhurst)

- Need to maintain and improve pedestrian and bicycle access and connectivity
- Need wider bridge for the addition of outside shoulders
- There is heavy traffic congestion on the bridge at peak hours that extends to Park Avenue & Route 21 & Riverside Avenue & Kingsland Avenue
- Results of Navigation Impact Study at Clay Street Bridge will impact any replacement bridge at Kingsland Avenue



Stakeholders Meeting (9/29/16)

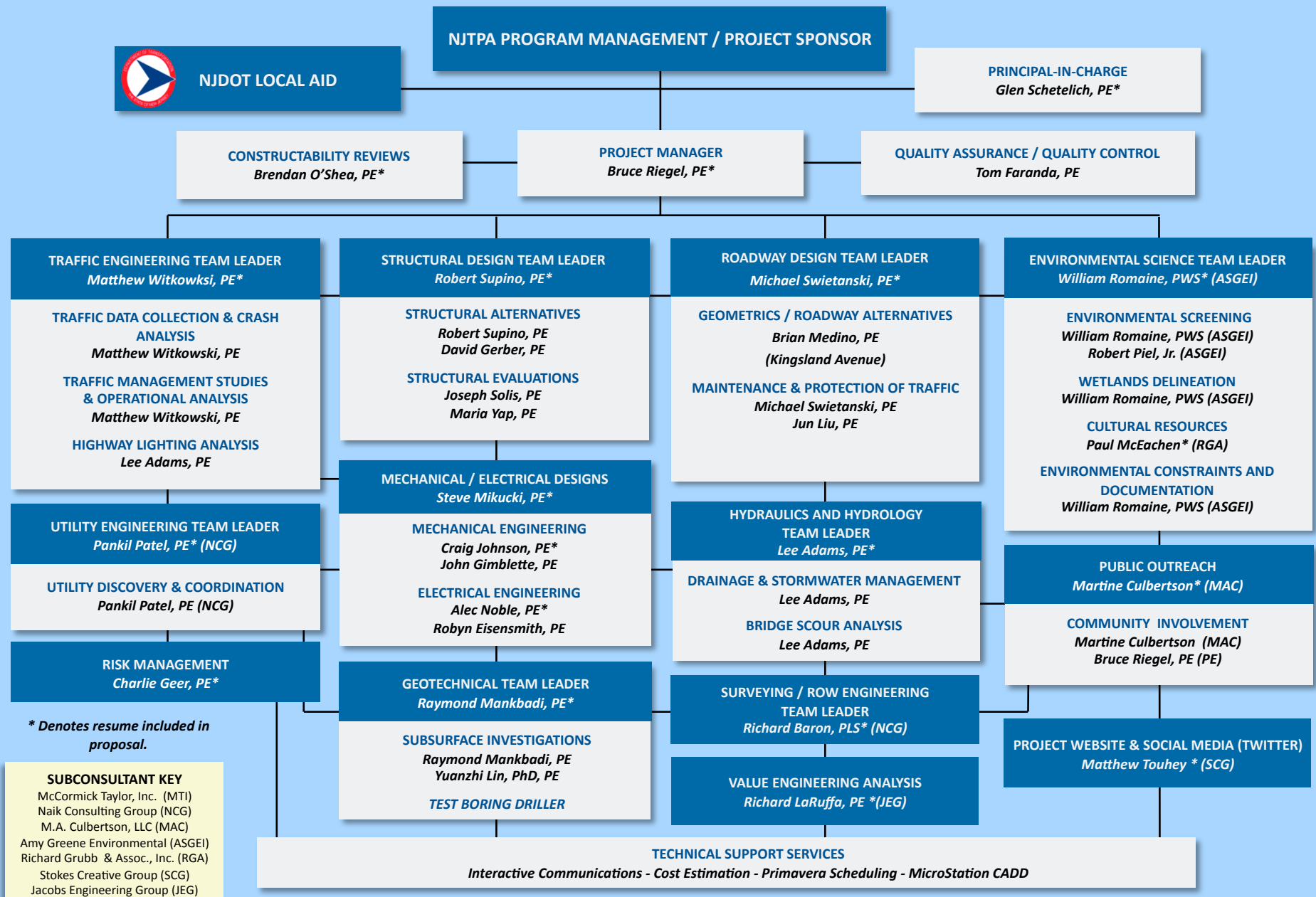
Comments from Stakeholders Meeting No. 1

- Need to provide bicycle access and connectivity
- Need wider bridge for emergency vehicle access
- Traffic signals within the project limits not synchronized
- Clay Street, Bridge Street, and Kingsland Avenue Bridge projects should not be constructed concurrently
- Provide interim improvements to relieve traffic congestion





**FY 2016 BERGEN COUNTY AND ESSEX COUNTY
LOCAL CONCEPT DEVELOPMENT STUDIES
ORGANIZATION CHART**



Project Contact Information

- Joseph Baladi, Bergen County Project Manager,
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- Luis Rodriguez, Essex County Project Manager,
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- Kingsland Avenue Bridge Project Web Site address:
- **www.KingslandAvenueBridge.com**

Power Point Presentation will be posted on Web Site

- Social Media (Twitter)
- Written comments towards Project Purpose & Need will be received until Friday, November 18, 2016



U.S. Department of Transportation
**Federal Highway
Administration**

DO YOU USE THE KINGSLAND AVENUE BRIDGE OR PASSAIC RIVER?

Please visit: www.kingslandavenuebridge.com

**FIND OUT WHAT KINGSLAND AVENUE BRIDGE
LOCAL CONCEPT DEVELOPMENT STUDY IS ALL ABOUT**



**North Jersey Transportation Planning Authority (NJTPA)
Local Concept Development (LCD) Study for
Kingsland Avenue (De Jessa Memorial) Bridge
Township of Lyndhurst, Bergen County
Township of Nutley, Essex County**

**LOCAL CONCEPT DEVELOPMENT STUDY FOR
KINGSLAND AVENUE BRIDGE OVER PASSAIC RIVER**

The Kingsland Avenue Bridge is such an important transportation link for so many people in the region and local communities, the NJTPA and Counties would like to encourage everyone to follow, participate and provide input on the bridge study. Please visit the project website and attend public meetings. Community involvement is a vital part of the LCD Study; your participation and comments are welcome.

**ESTUDIO DE DESARROLLO DEL CONCEPTO LOCAL DEL
PUENTE DE KINGSLAND AVENUE SOBRE EL RÍO PASSAIC**

El Puente de Kingsland Avenue es un vínculo de transporte tan importante para tanta gente de la región y de las comunidades locales que la NJTPA y los Condados desean fomentar que todos sigan, participen y proporcionen información para el estudio del puente. Por favor, visite el sitio web del proyecto y asista a las reuniones públicas. La participación de la comunidad es una parte vital del Estudio de Desarrollo del Concepto Local (LCD); su participación y sus comentarios serán bien recibidos.

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Questions



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