

Public Information Meeting

State Project No. 135-325

Reconstruction of
Bridge No. 00037

US Route 1 over I-95
Stamford, Connecticut

Connecticut Department of Transportation



Project Location



CTDOT Role and Mission

Bureau of Engineering and Construction

Transportation Project Responsibilities

- Engineering Design
- Construction
- Inspection

Contact: Ms. Lesgie M. Ruiz

Connecticut Department of Transportation



Design Consultants

CTDOT has retained
PARSONS BRINCKERHOFF

to provide design services for this project with
Close, Jensen & Miller (CJM) as
CTDOT Liaison

Parsons Brinckerhoff Contact:

Mr. Thomas R. Laliberte, P.E.
Supervising Engineer

Close Jensen & Miller Contact:

Mr. Sal Cugno, P.E.
Project Engineer

Connecticut Department of Transportation



Project Goals

- **Increased safety of the traveling public**
 - Replace steel girders and concrete deck
 - Widen shoulders on bridge roadway
- **Minimize construction disruptions**
 - One weekend road closure of Route 1
 - Maintain two lanes of I-95 traffic in each direction
 - Occasional off peak lane closures for preliminary work
- **Reduce future maintenance costs**
- **Effectively use funds**



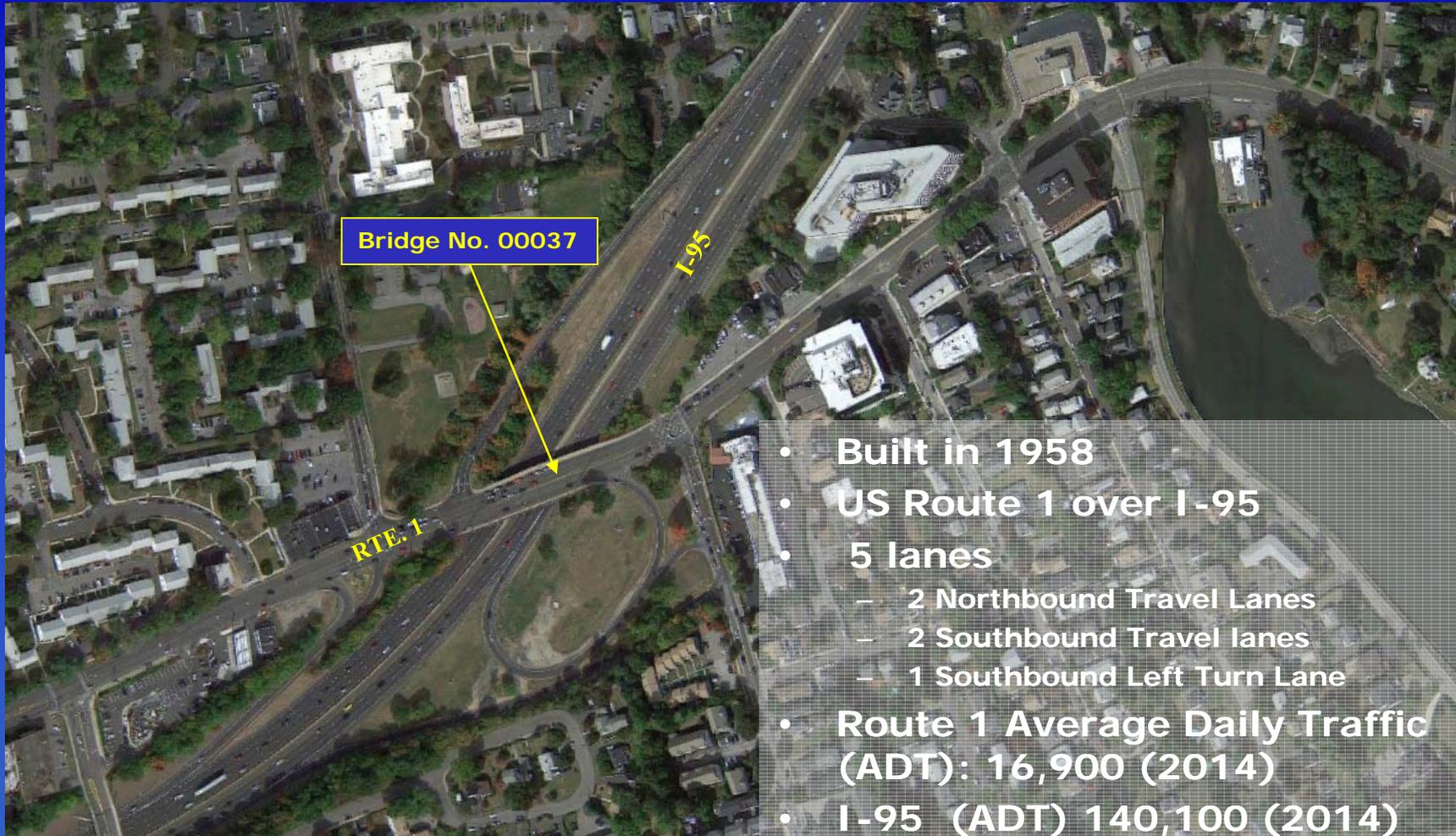
Reasons for Reconstruction

- **Deck Deficiencies**
 - Random cracks and areas of moderate scale
 - High chloride infiltration
 - Up to 23% visible deck underside deterioration

- **Substructure Repairs**
 - Repairs needed for bridge seats



Existing Bridge



- Built in 1958
- US Route 1 over I-95
- 5 lanes
 - 2 Northbound Travel Lanes
 - 2 Southbound Travel lanes
 - 1 Southbound Left Turn Lane
- Route 1 Average Daily Traffic (ADT): 16,900 (2014)
- I-95 (ADT) 140,100 (2014)

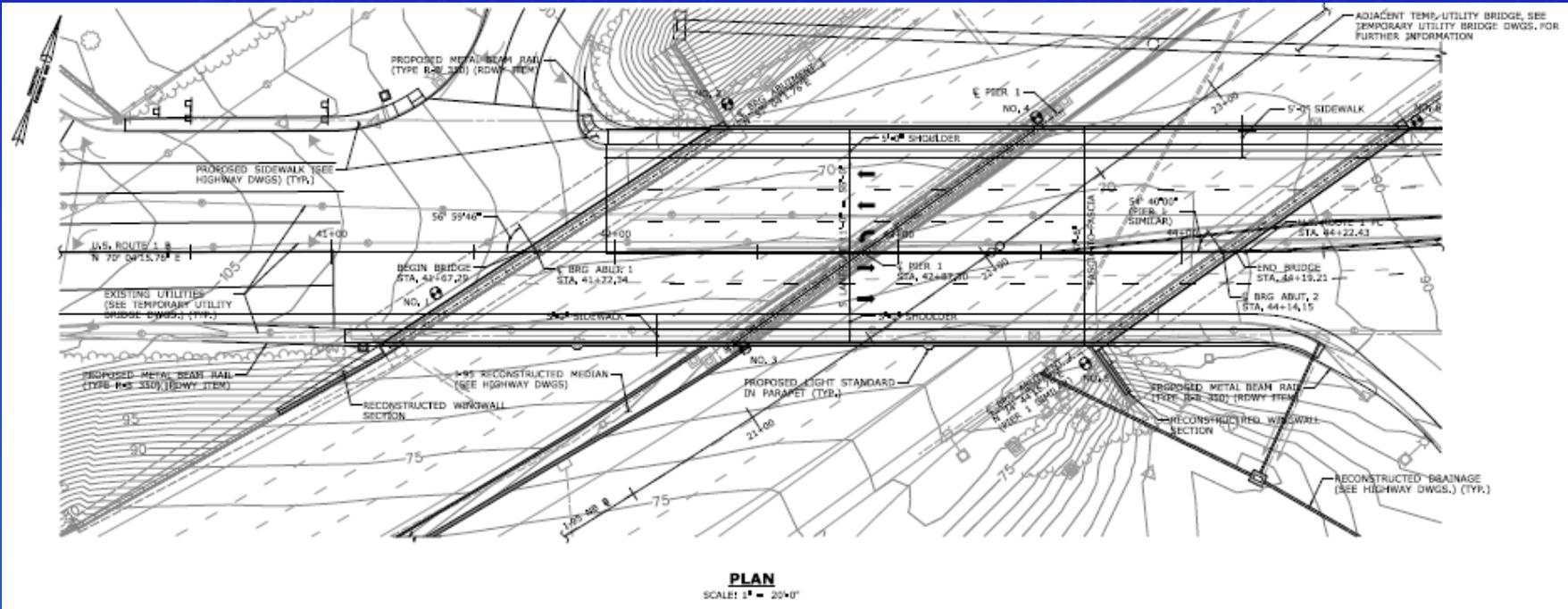


Existing Bridge (cont'd)

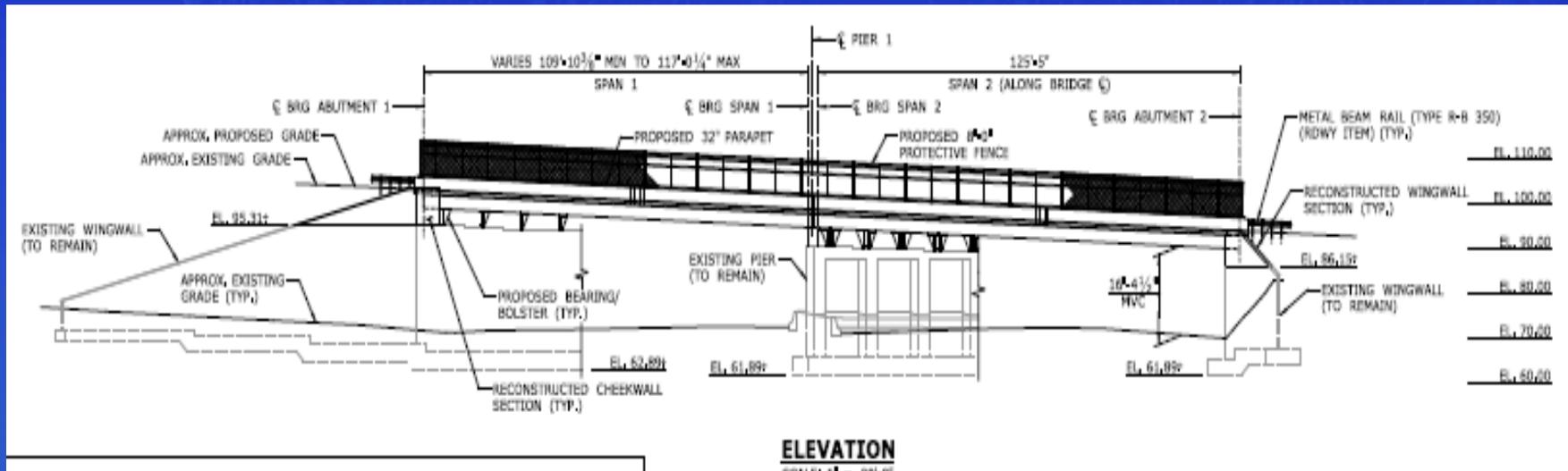
- **Bridge Geometric Data**
 - Total length: 252'
 - Roadway width: 60' curb-to-curb
 - Overall deck width: 72.5' out-to-out
- **Two span, simply supported steel multi-girder structure**
- **Reinforced concrete deck**
- **Concrete abutments and piers**



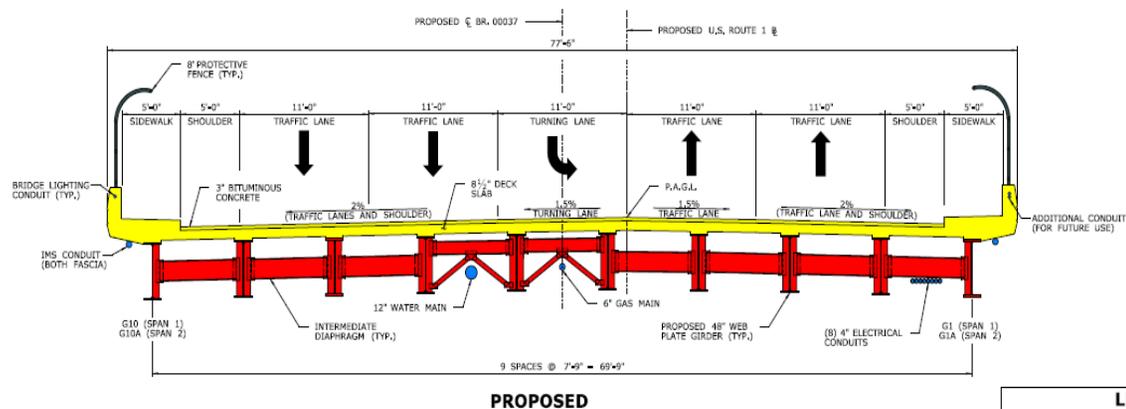
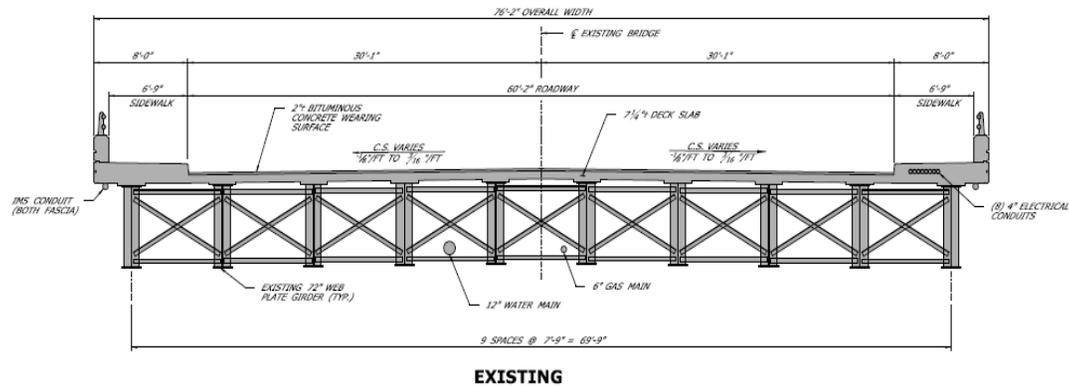
Existing Plan



Existing Elevation



Bridge Section



LEGEND	
	EXISTING SUPERSTRUCTURE
	PROPOSED CONCRETE
	PROPOSED STRUCTURAL STEEL
	PROPOSED PEDESTRIAN FENCE
	PROPOSED UTILITY LINE

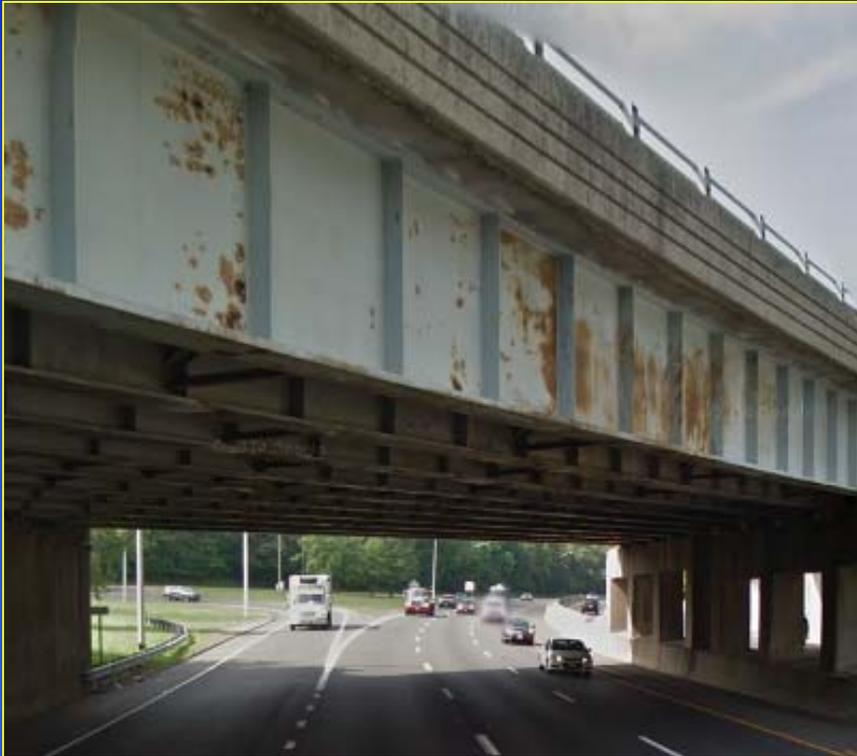
**REHABILITATION OF U.S. ROUTE 1
 OVER I-95
 STATE PROJECT NO. 135-325**



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Existing Superstructure



Existing Substructure



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Aerial View



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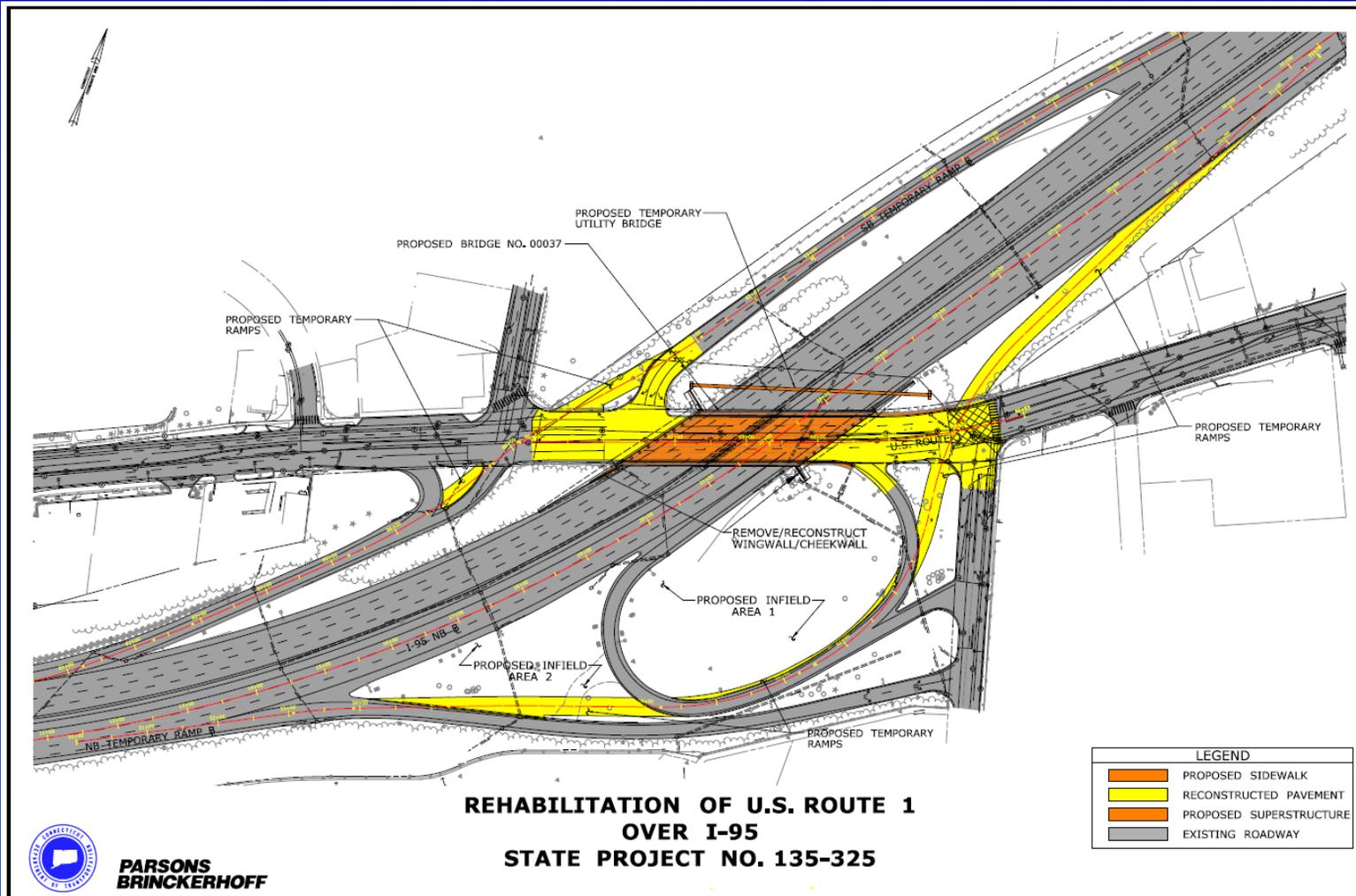


Proposed Construction

- New steel and concrete deck superstructure constructed on the on ramp infield area
- Match existing bridge dimensions for accelerated construction
- Minor substructure repairs
- Two temporary I-95 bypass lanes on the existing on and off ramps
- Temporary utility bridge



Proposed Construction Plan

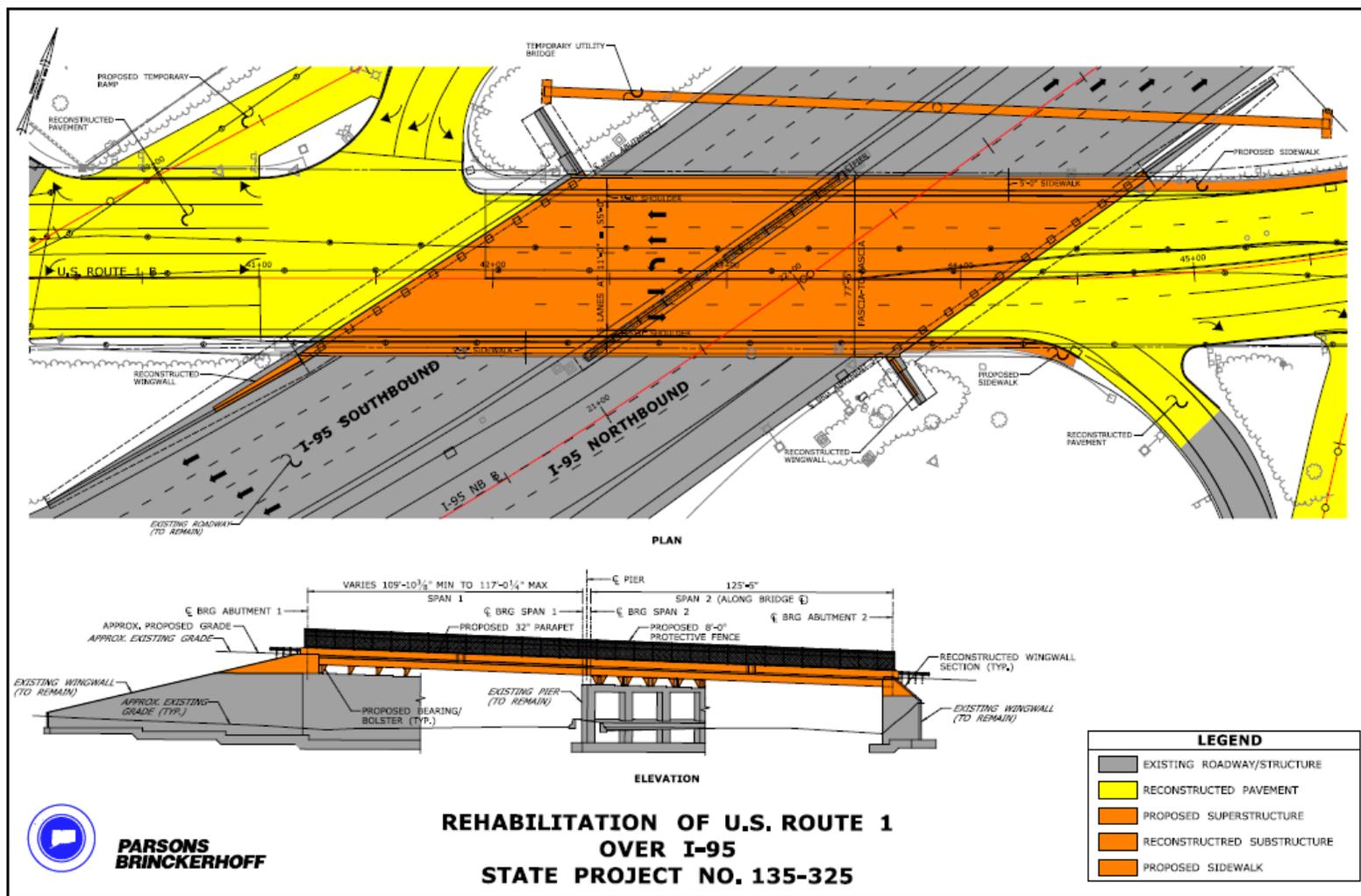


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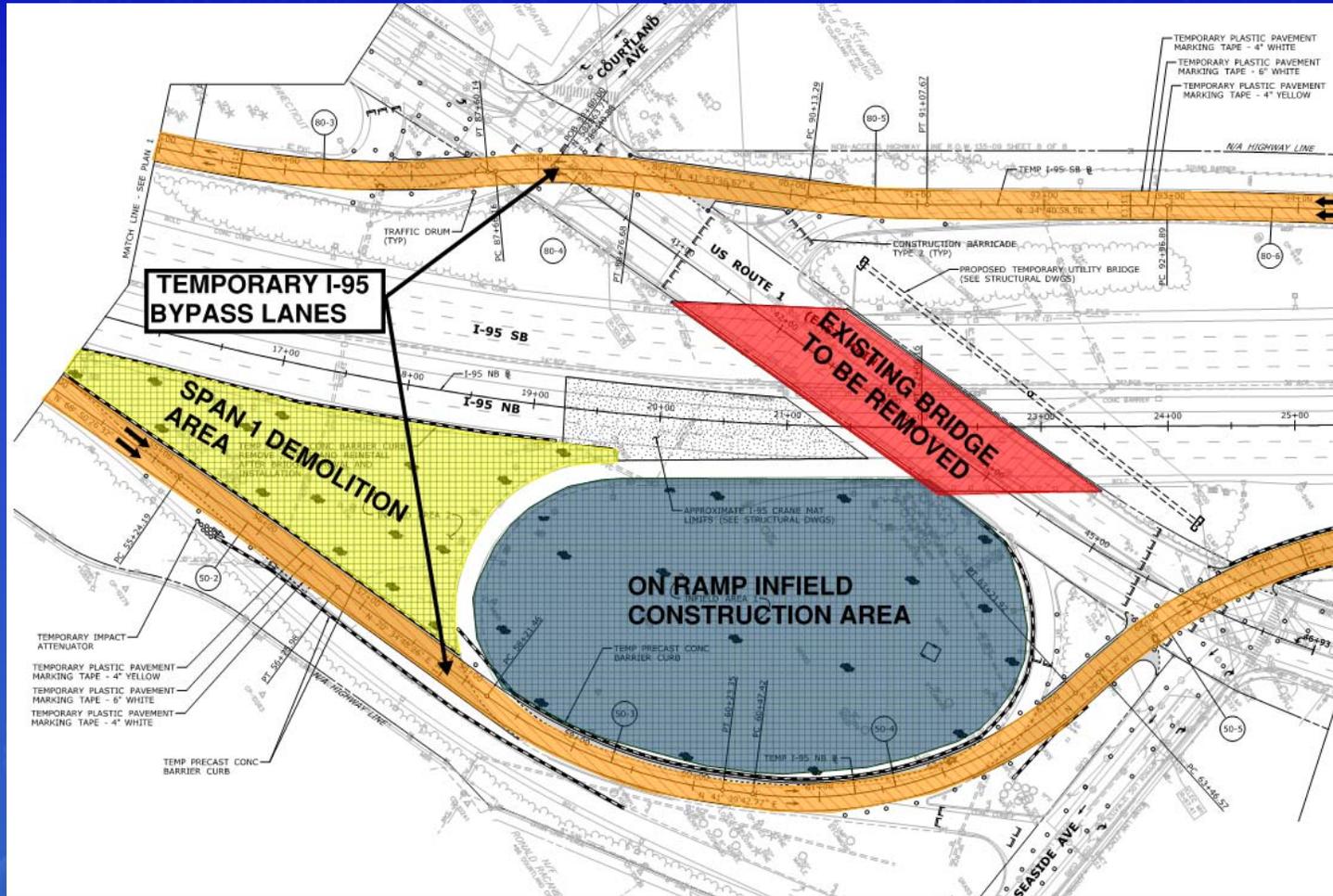
Proposed Bridge Plan



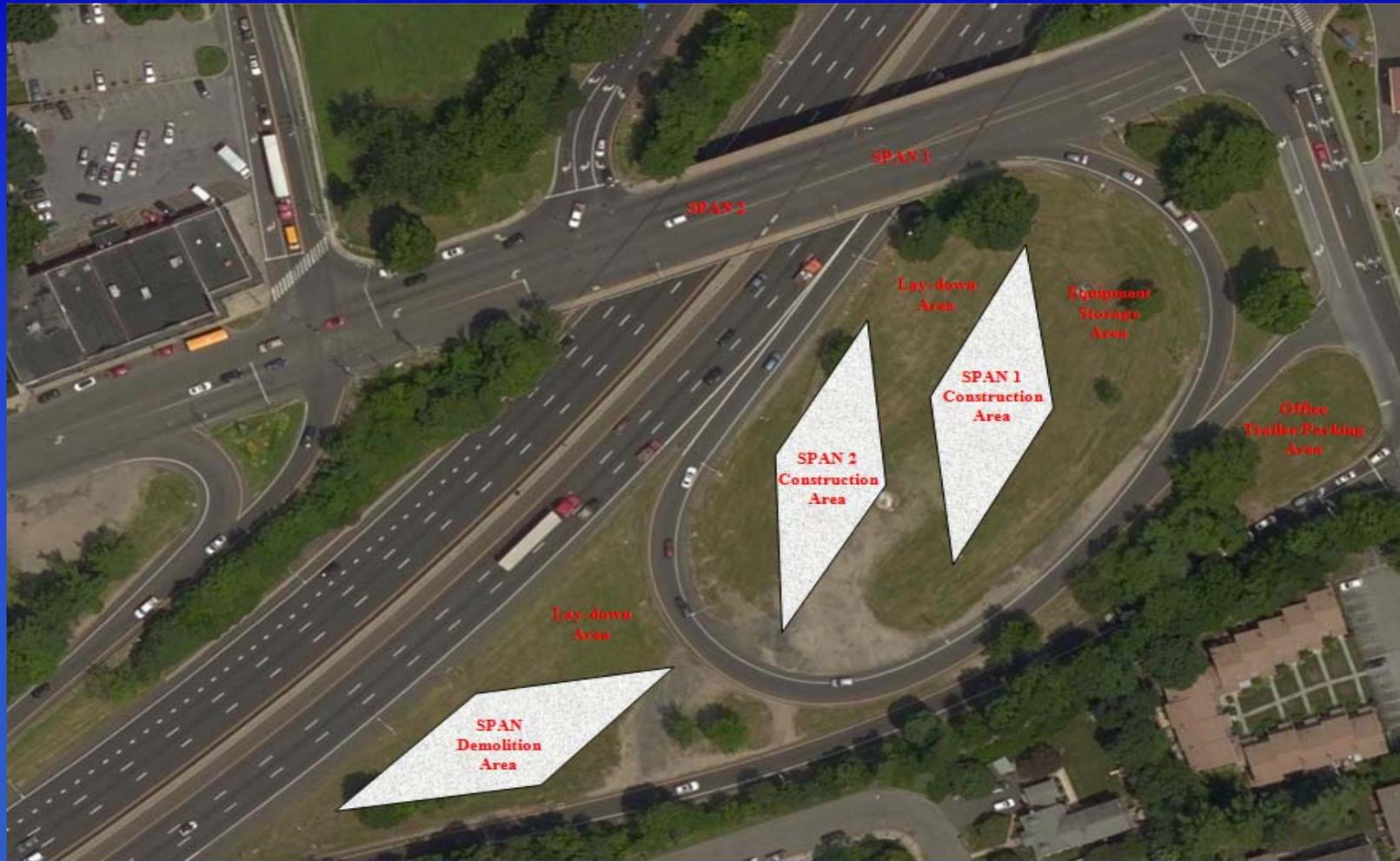
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Construction Stage 2



Construction Area

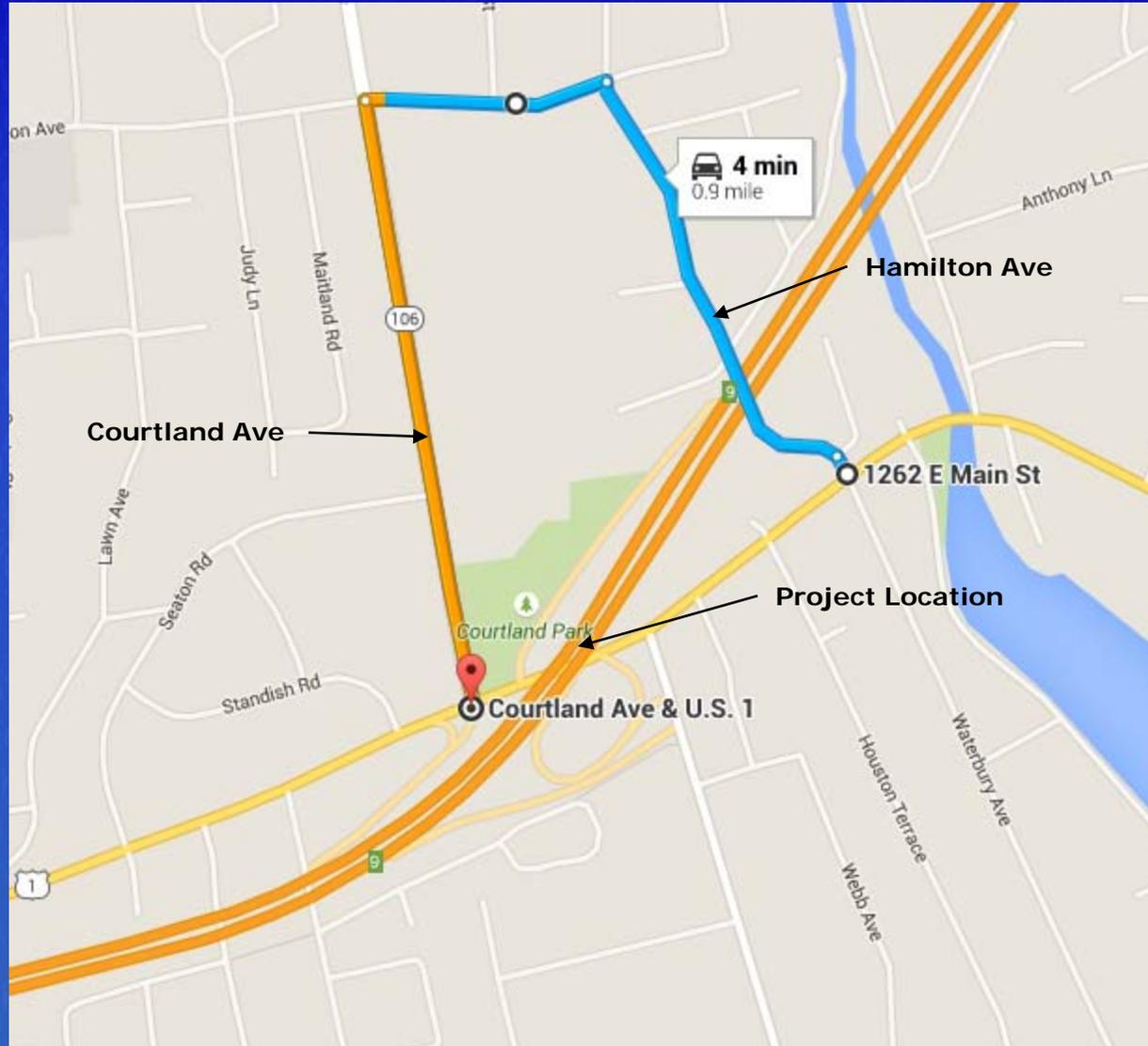


Maintenance & Protection of Traffic

- Route 1 will be closed for one weekend only at the bridge site during span removals and installation of new spans
- Route 1 detour via Hamilton Ave and Courtland Ave
- Temporary I-95 bypass lanes will be installed on existing on and off ramps to be utilized for one weekend only



Traffic Detour Plan



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Accelerated Construction



Above:

Example Image of SPMT moving a proposed superstructure along travel path.

- Proposed superstructures Span 1 and Span 2 will be built off-line in Infield Area 1.
- During a single weekend closure Existing superstructure Span 2 will be removed and placed in Infield Area 2 via SPMTs, existing superstructure Span 1 will be demolished in place, and proposed span 1 and 2 will be moved into place via SPMTs.
- Temporary Utility Bridge will be placed over I-95 prior to removal of existing superstructure via night time off-peak temporary closure.
- Infield areas and I-95 will require modifications to meet travel requirements of SPMTs

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SPMT Sample Move



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SPMT Sample Move



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SPMT Sample Move



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SPMT Sample Move



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SPMT Sample Move



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Utility Impacts

Utilities at Bridge 00037:

- Water
- Gas
- Electric

Utilities to be maintained during construction using a temporary utility bridge north of the construction site.

Brief utility shutdowns may be required.



Property Impacts

No temporary or permanent property impacts are anticipated on this project.



Project Costs

Estimated Project Cost: \$19 million

Bridge reconstruction with State and Federal funds



Project Schedule

Construction is anticipated to begin in Fall 2016 and be completed by Spring 2018.

The schedule is preliminary and is predicated upon the availability of funding.



Thank you for your attention!

Any Questions?

CTDOT Contact Information

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