

LONG-TERM INTERCHANGE 59 IMPROVEMENTS

ON ROUTE 15 & ROUTE 69

TOWN OF WOODBRIDGE & CITY OF NEW HAVEN



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OBJECTIVES OF TONIGHT'S BRIEFING

- Apprise the Town Council of the status of the proposed Long Term Interchange 59 Improvement Project
- Obtain early municipal comments on the preferred alternatives before moving forward
- Identify next steps

RECENT CONNDOT INITIATIVES IN THE INTERCHANGE 59 AREA

- 1. ROUTE 15 INTERCHANGE DEFICIENCIES AND NEEDS STUDY**
Completed June 2014
- 2. ROUTE 69 CAPACITY, OPERATIONAL & PEDESTRIAN IMPROVEMENTS (Project 92-672)**
Initiated in 2015 – Now in Final Design – Construction Start 2018
- 3. LONG TERM INTERCHANGE 59 IMPROVEMENTS**
(Focus of tonight's briefing) — In scoping phase
- 4. HEROES TUNNEL REHABILITATION (Project 167-108)**
To address structural needs unrelated to adjacent interchange needs — In scoping phase

ON-GOING CTDOT PROJECTS



Route 69 Interim Improvements
Project # 92-672

Tunnel Rehabilitation
Project #167-108
Still in scoping phase

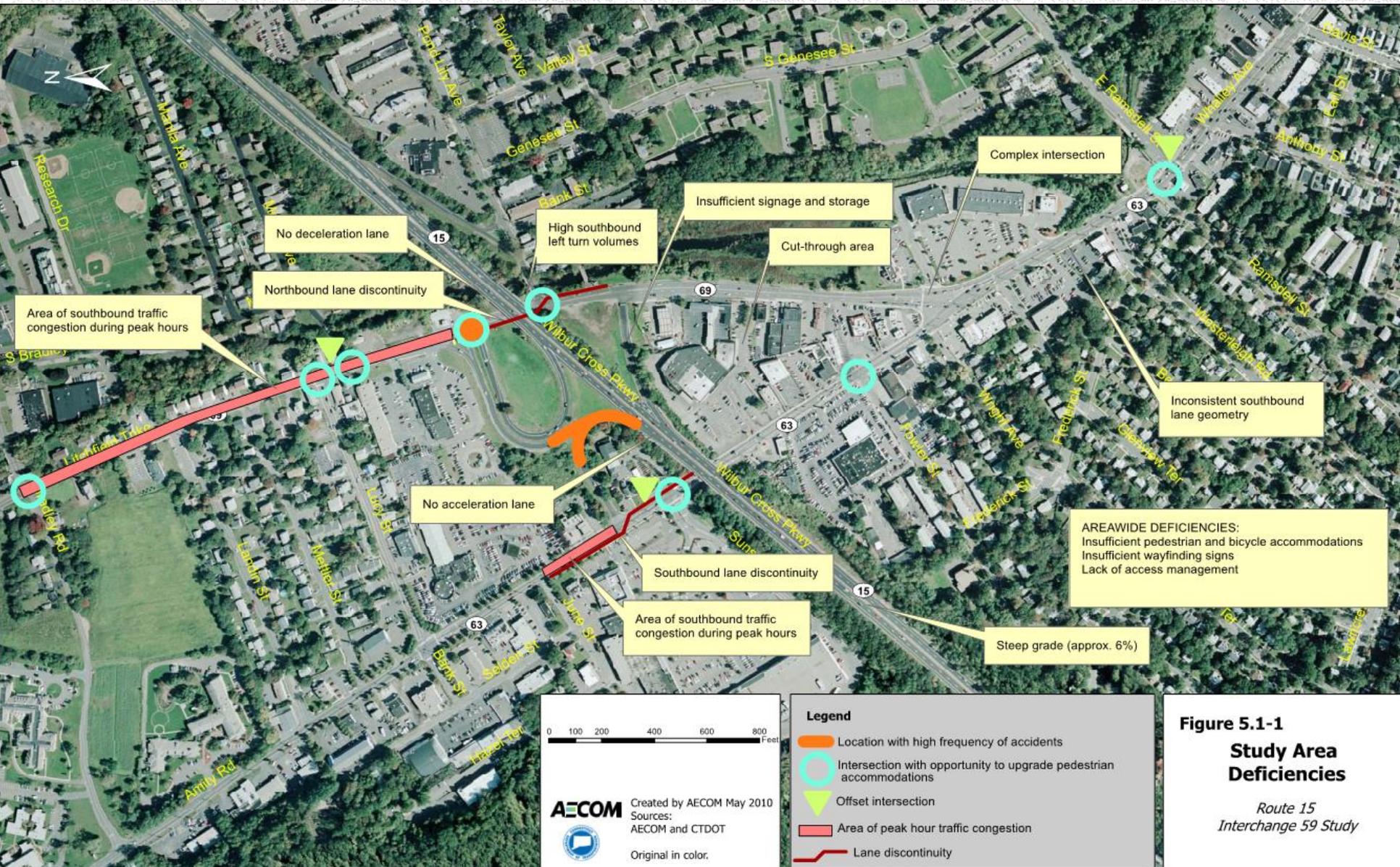
WHERE WE ARE IN THE PROCESS

Interchange 59 Deficiencies and Needs Study

July 2014 - Study was concluded by CTDOT consultants

- Compiled background data, traffic patterns/volumes
- Public forums held to obtain stakeholder and public input
- Developed purpose and need
- Developed preferred alternative – ***but not definitive solution***

PURPOSE & NEED – STUDY FINDINGS

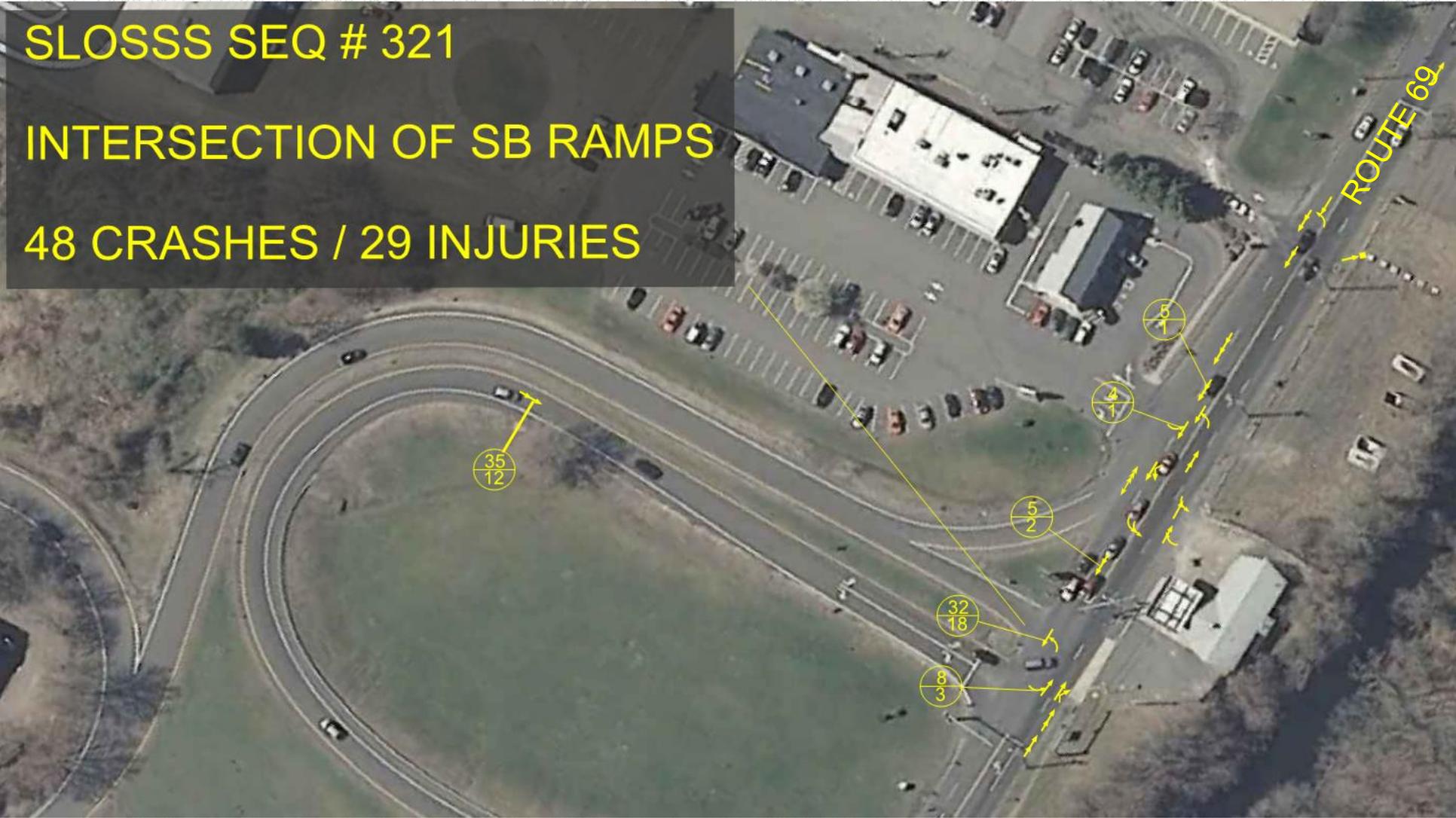


PURPOSE & NEED – SAFETY

SLOSSS SEQ # 321

INTERSECTION OF SB RAMPS

48 CRASHES / 29 INJURIES

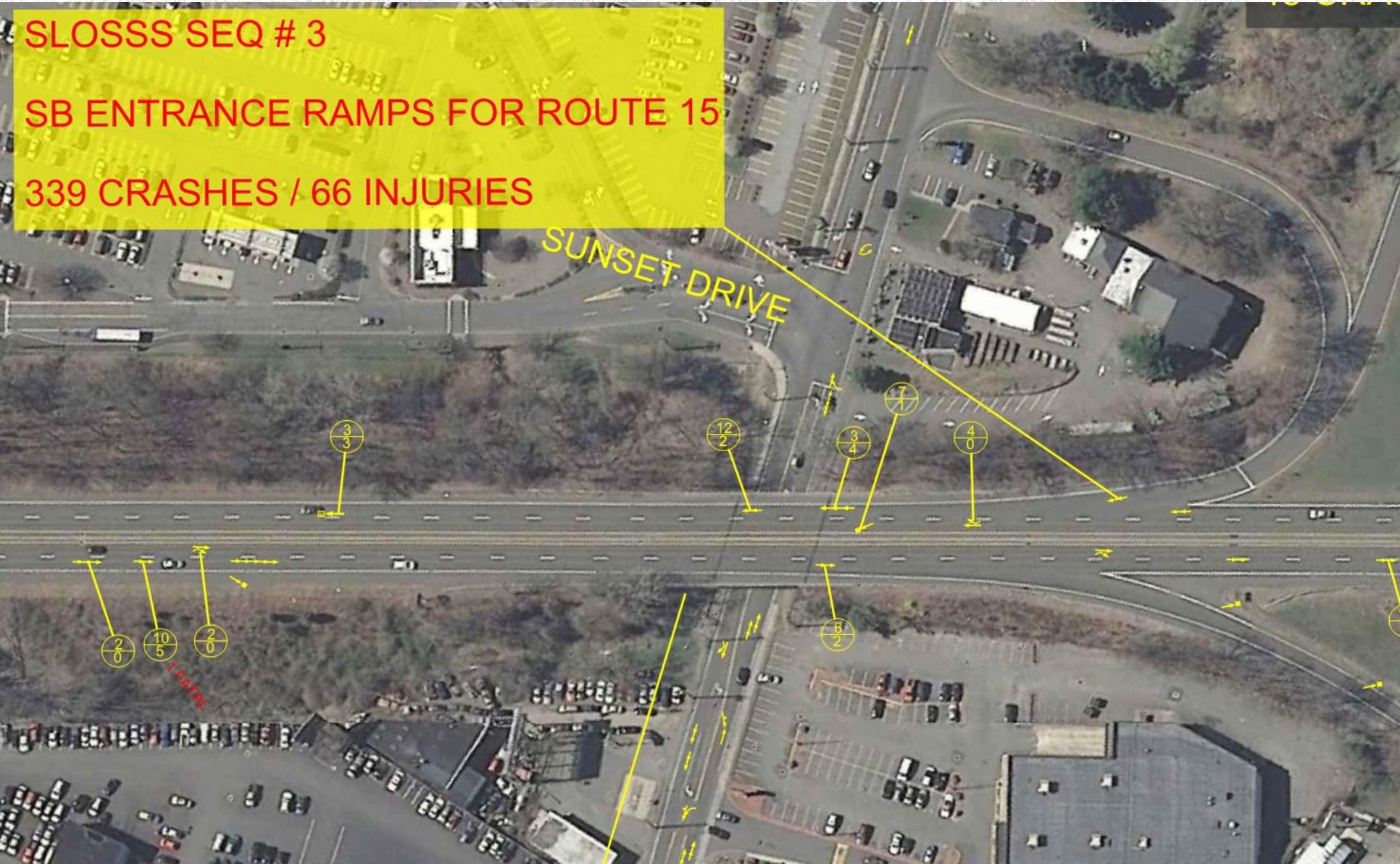


PURPOSE & NEED – SAFETY

SLOSSS SEQ # 3

SB ENTRANCE RAMPS FOR ROUTE 15

339 CRASHES / 66 INJURIES



WHERE WE ARE IN THE PROCESS

STUDY CONCLUDED - 2014

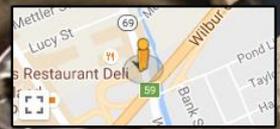


2014-2015 - Interim Improvements

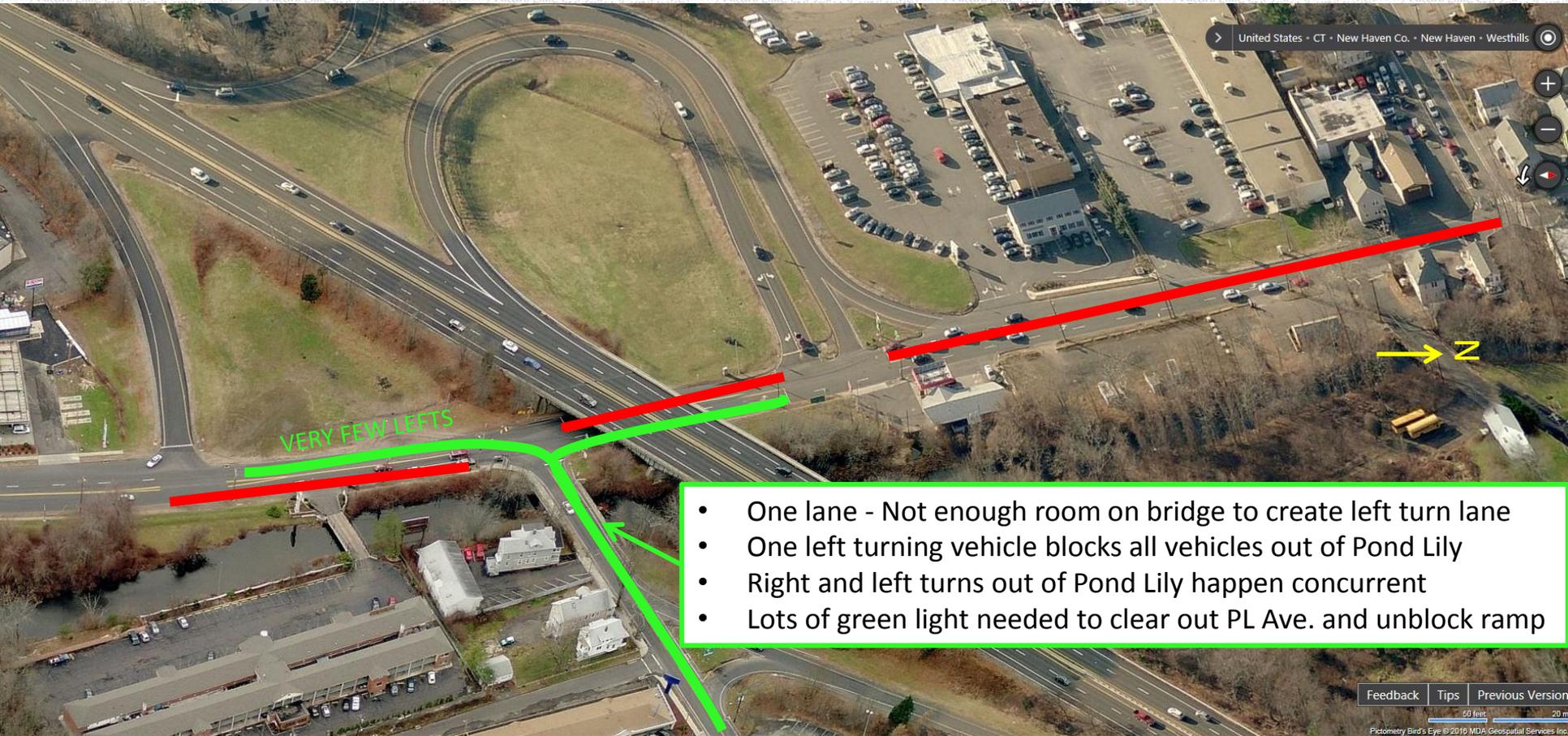
- In response to strong community interest, steps were taken to find a short term solution to the severe congestion on Route 69
- Interim improvements scoped and project was initiated

INTERIM IMPROVEMENTS - CONGESTION

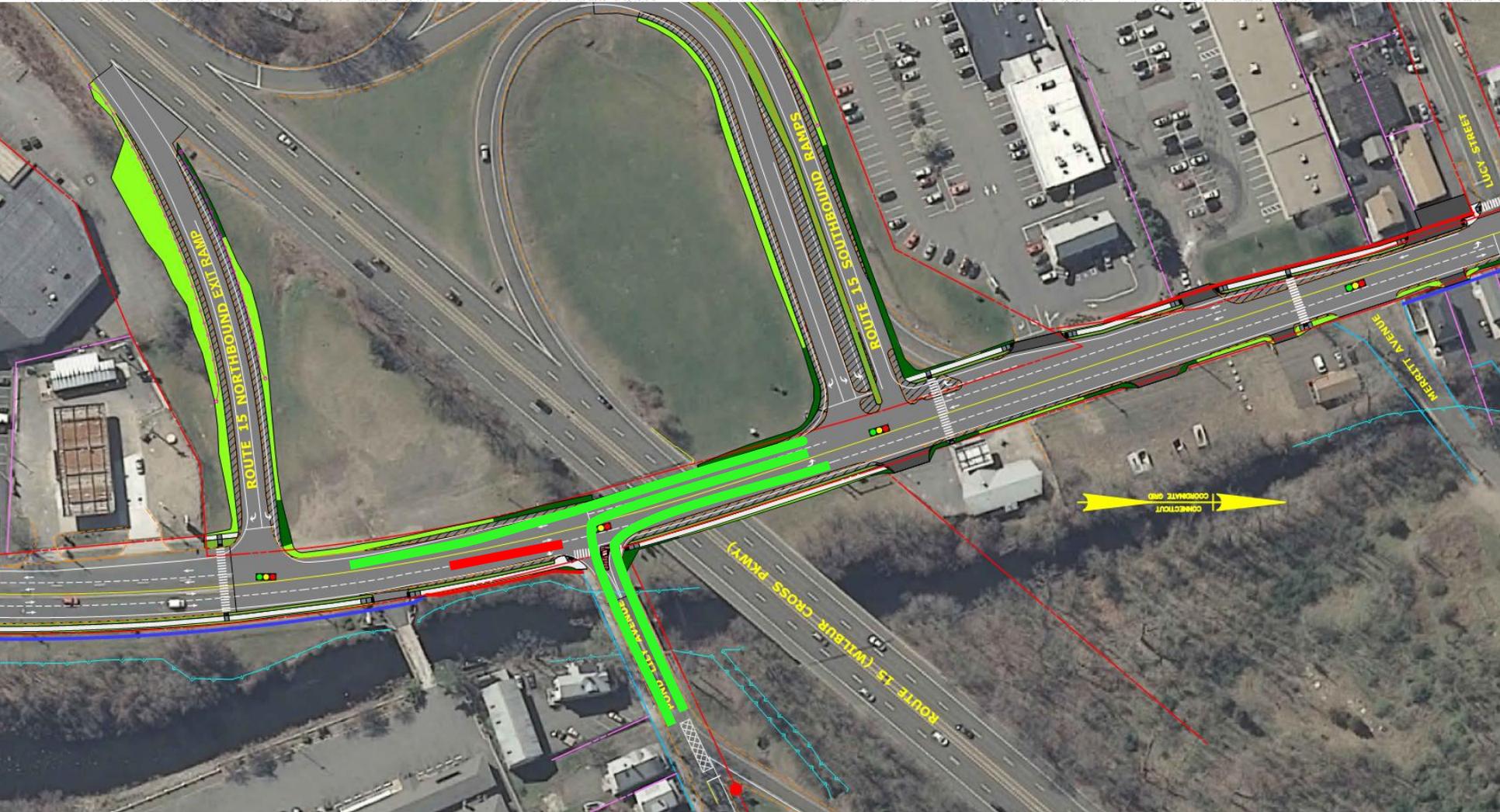
1606 Whalley Ave
New Haven, Connecticut
Street View - Dec 2015



INTERIM IMPROVEMENTS - CONGESTION



INTERIM IMPROVEMENTS



WHERE WE ARE IN THE PROCESS

STUDY CONCLUDED – JULY 2014



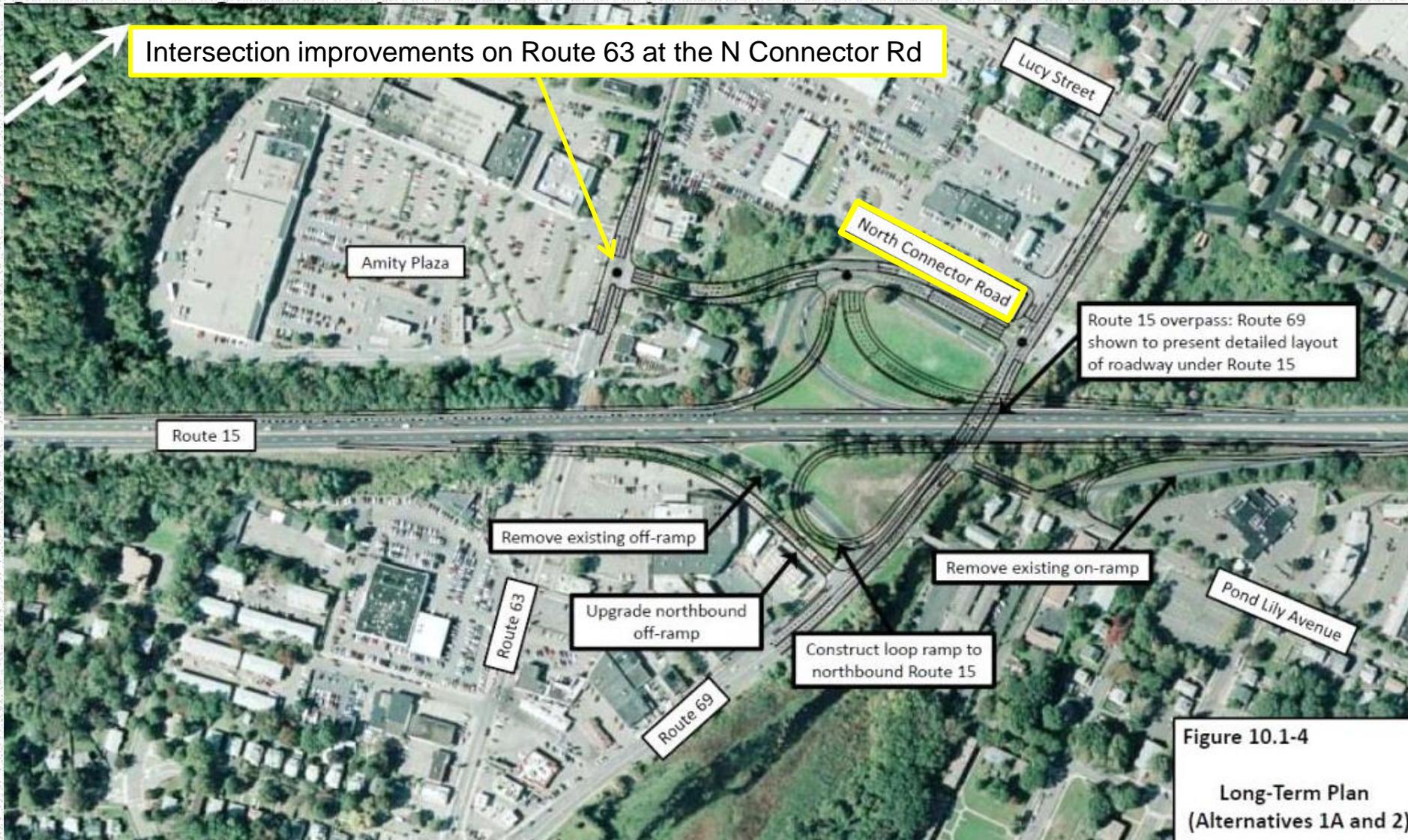
INTERIM IMPROVEMENTS ON ROUTE 69 - 2015



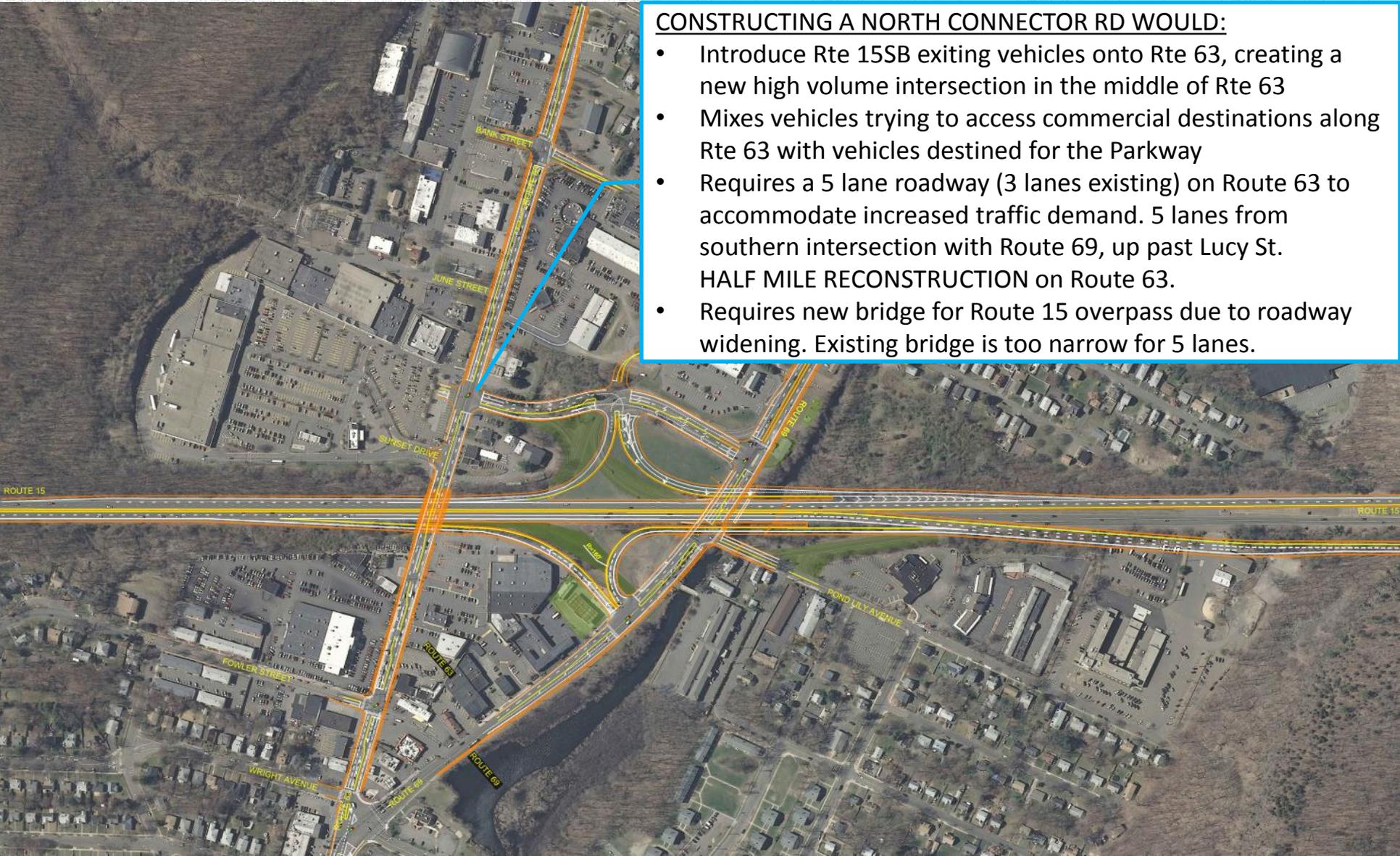
2014 through 2016 - Preferred Long-Term alternative refined

- Investigated feasibility of preferred study alternative
- CTDOT built upon the work done in the study
- Developed more alternatives that satisfy purpose and need defined in the study
- Vetted all alternatives internally and presented CTDOT's preferred alternatives to the Town of Woodbridge and City of New Haven on June 30, 2016

IMPACTS OF FULLY DEVELOPED STUDY ALTERNATIVE



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CONSTRUCTING A NORTH CONNECTOR RD WOULD:

- Introduce Rte 15SB exiting vehicles onto Rte 63, creating a new high volume intersection in the middle of Rte 63
- Mixes vehicles trying to access commercial destinations along Rte 63 with vehicles destined for the Parkway
- Requires a 5 lane roadway (3 lanes existing) on Route 63 to accommodate increased traffic demand. 5 lanes from southern intersection with Route 69, up past Lucy St. **HALF MILE RECONSTRUCTION** on Route 63.
- Requires new bridge for Route 15 overpass due to roadway widening. Existing bridge is too narrow for 5 lanes.

IMPACTS OF FULLY DEVELOPED STUDY ALTERNATIVE

TO SUMMARIZE, CONSTRUCTING A NORTH CONNECTOR ROAD WOULD MEAN...

- Considerable impacts to businesses along Route 63
 - Property frontage & parking
 - Driveways combined or relocated
- Increased project cost
 - Reconstruction of an entire corridor & connector roadway
 - New structures
 - Property acquisitions
 - Utility relocations

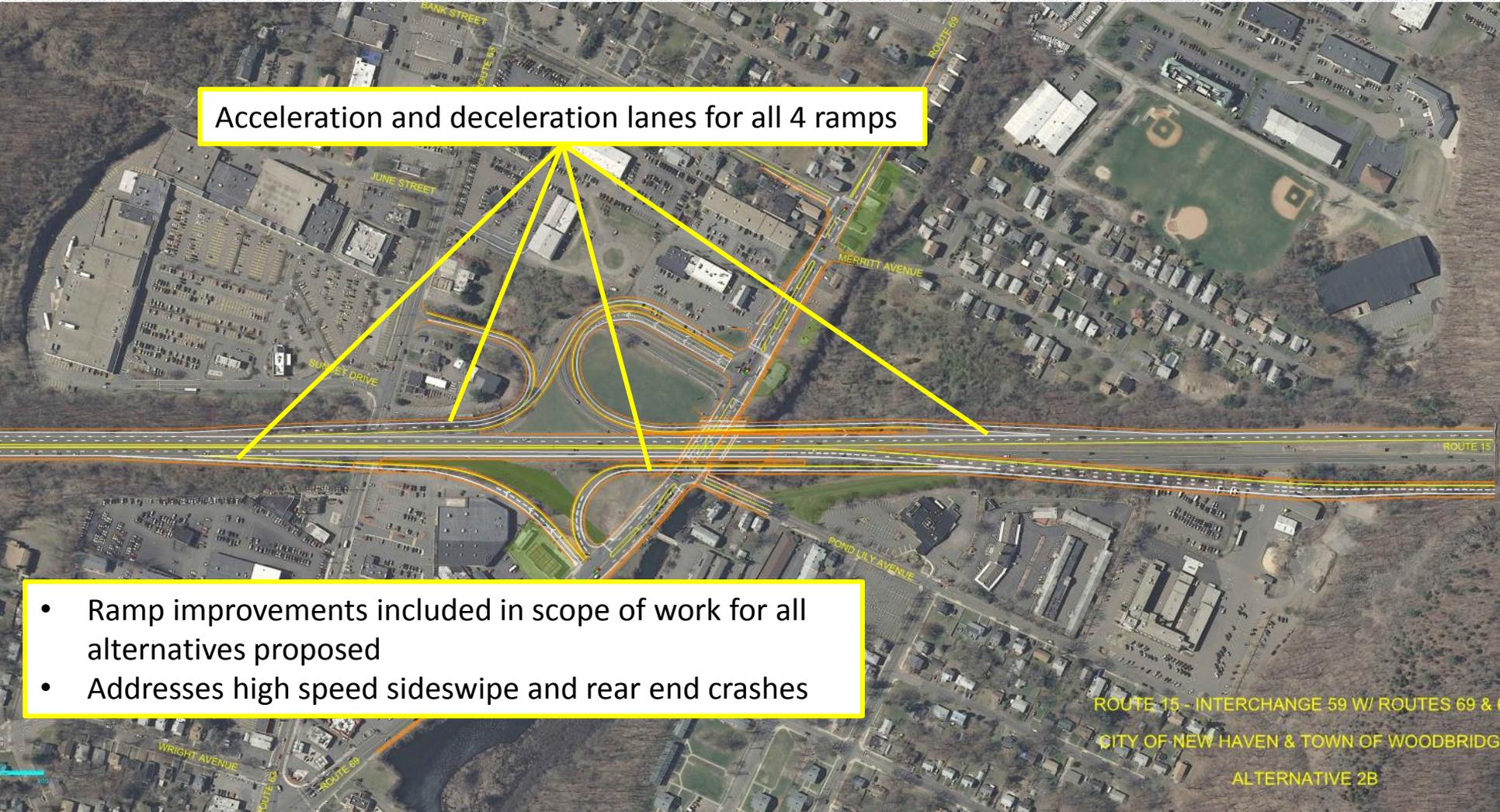
ADDITIONAL SOLUTIONS WERE INVESTIGATED THAT ADDRESS DEFICIENCIES IN AREA WITHOUT THE IMPACTS TO ROUTE 63

PROPOSED ALTERNATIVES

TWO MAIN ALTERNATIVES WILL BE PRESENTED:

- **Both alternatives include Route 15 ramp improvements to address safety**
- **Both alternatives provide operational & capacity improvements on Route 69. Major difference between the alternatives:**
 - Signalized Intersections on Route 69
 - Roundabouts on Route 69

ROUTE 15 RAMP IMPROVEMENTS



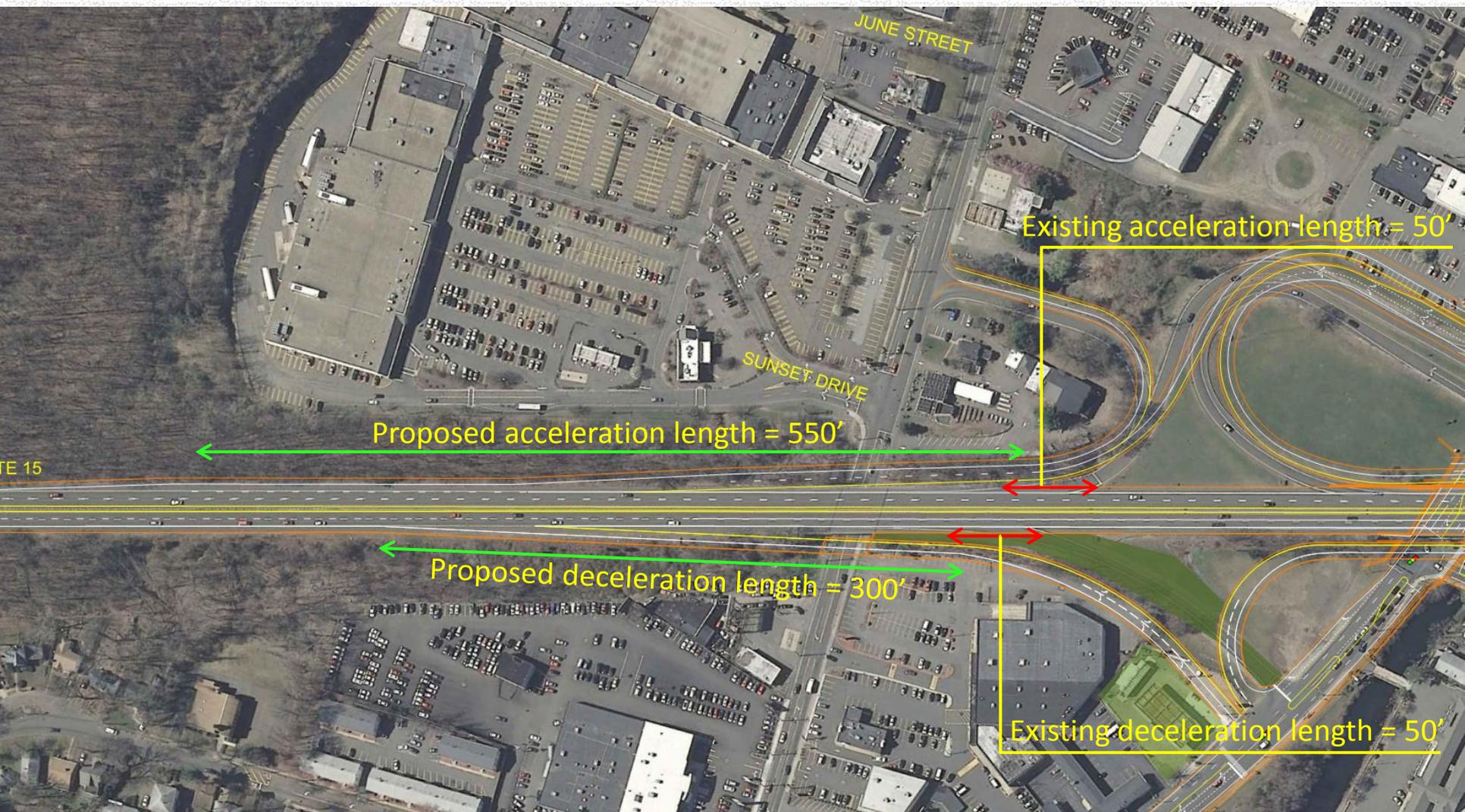
Acceleration and deceleration lanes for all 4 ramps

- Ramp improvements included in scope of work for all alternatives proposed
- Addresses high speed sideswipe and rear end crashes

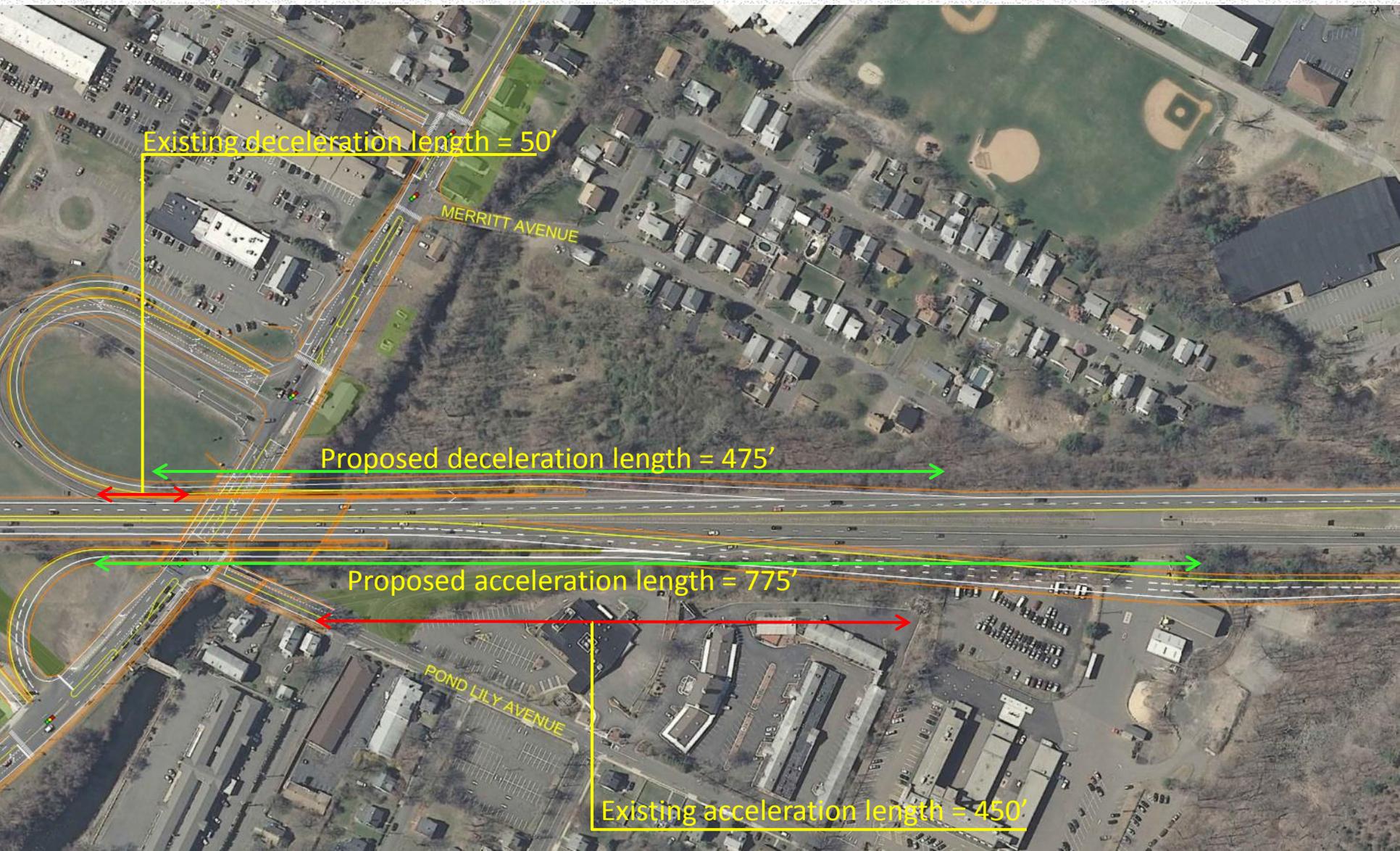
ROUTE 15 - INTERCHANGE 59 W/ ROUTES 69 & 15
CITY OF NEW HAVEN & TOWN OF WOODBRIDGE

ALTERNATIVE 2B

ROUTE 15 RAMP IMPROVEMENTS



ROUTE 15 RAMP IMPROVEMENTS



Existing deceleration length = 50'

MERRITT AVENUE

Proposed deceleration length = 475'

Proposed acceleration length = 775'

POND LILY AVENUE

Existing acceleration length = 450'

ROUTE 69 SIGNALIZED INTERSECTION ALT



ROUTE 69 SIGNALIZED INTERSECTION ALT

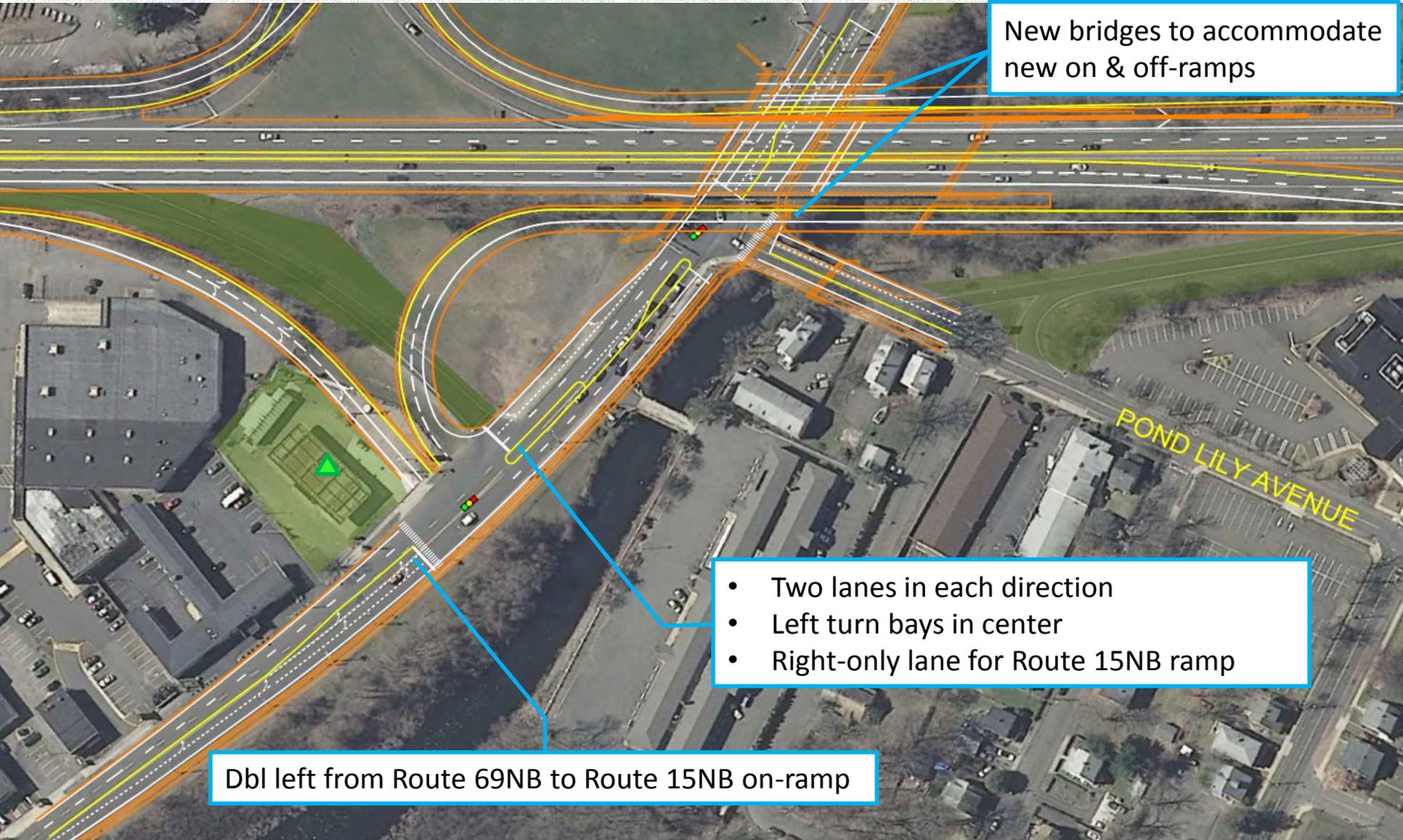
- Single lane SB on Rt.69 until Merritt Ave
- Two lanes continue northbound past Lucy and taper down to one lane

Dbl left from Route 15 SB off-ramp

- Two lanes in each direction
- Left turn bays in center
- Right-only lane for Route 15 SB ramp



ROUTE 69 SIGNALIZED INTERSECTION ALT



New bridges to accommodate new on & off-ramps

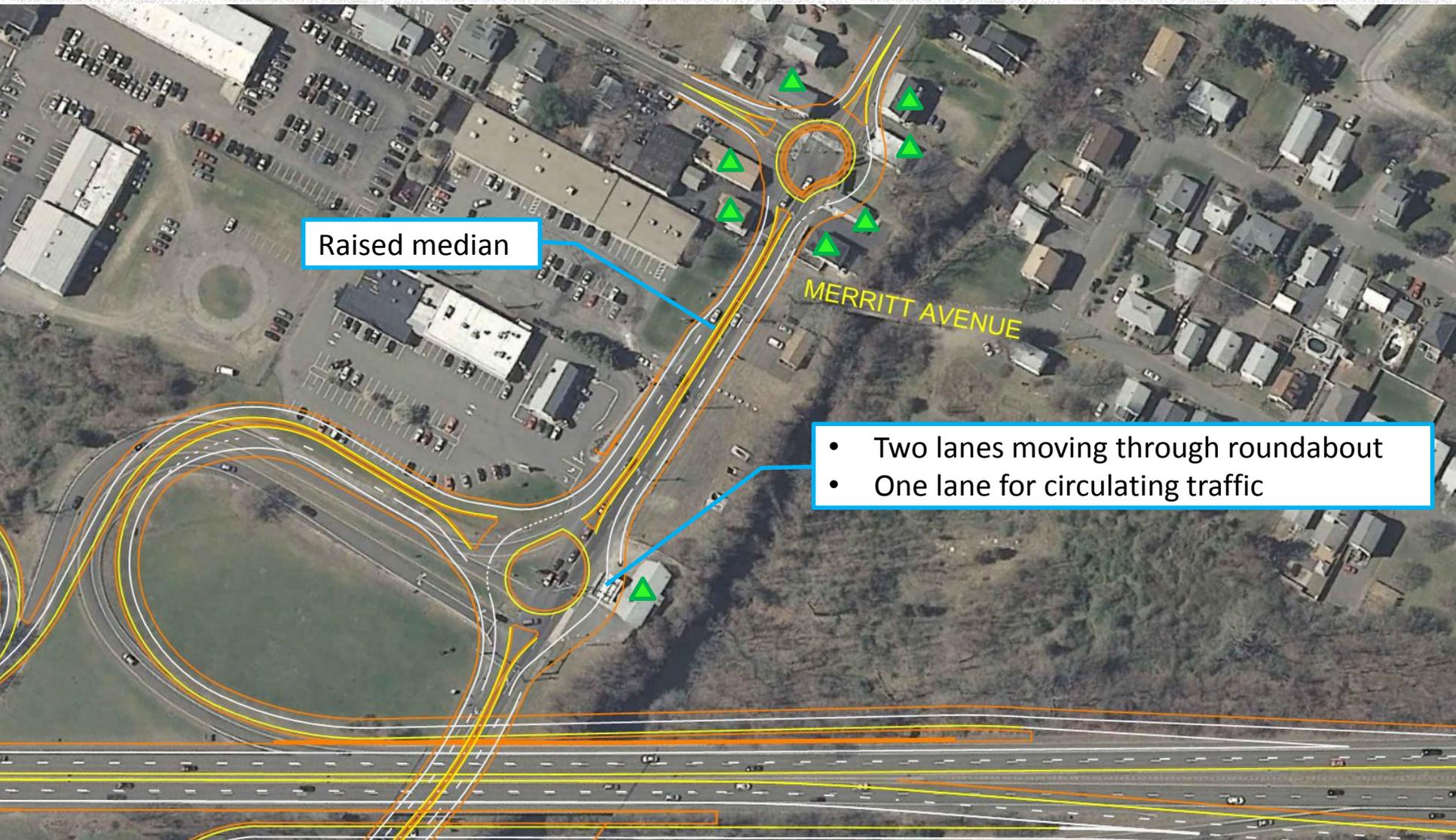
- Two lanes in each direction
- Left turn bays in center
- Right-only lane for Route 15NB ramp

Dbl left from Route 69NB to Route 15NB on-ramp

ROUTE 69 ROUNDABOUT ALTERNATIVE



ROUTE 69 ROUNDABOUTS ALTERNATIVE

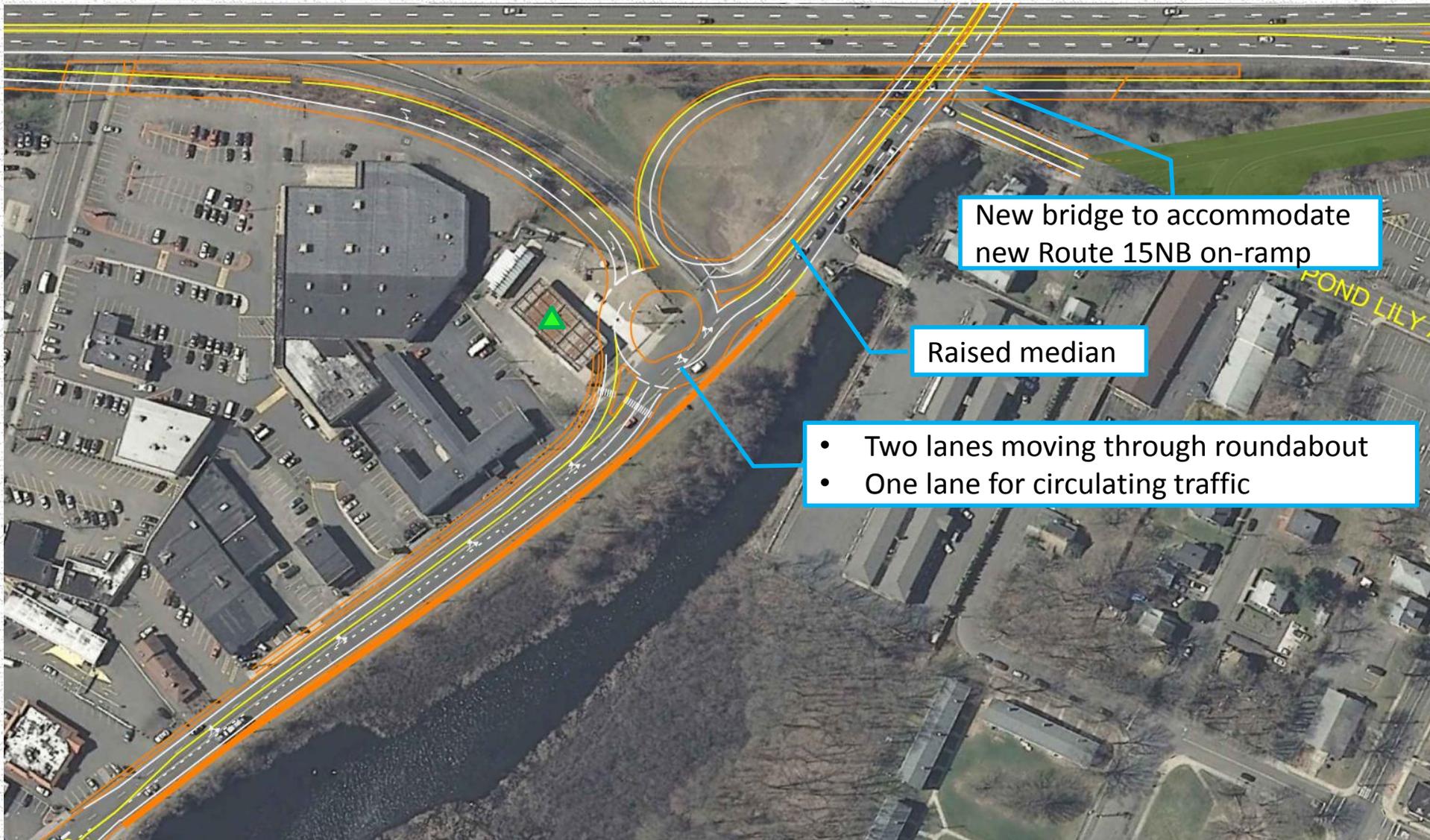


Raised median

MERRITT AVENUE

- Two lanes moving through roundabout
- One lane for circulating traffic

ROUTE 69 ROUNDABOUTS ALTERNATIVE



ALTERNATIVES COMPARISON

	ADVANTAGES	DISADVANTAGES
TRAFFIC SIGNALS	<ul style="list-style-type: none">• Conventional accommodation of bicycles and pedestrians	<ul style="list-style-type: none">• Does not address left turn conflicts into and out of commercial driveways on Route 69
ROUNDAABOUT	<ul style="list-style-type: none">• Roundabouts create free flow through corridor, no waiting at traffic lights with vehicles traveling at lower and safer speeds• Left turn conflicts eliminated through use of raised medians	<ul style="list-style-type: none">• Pedestrian accommodations at roundabouts will require further investigation

MINIMUM BUILD

TWO MAIN ALTERNATIVES PROPOSED

- Significant Operational and Safety Improvements
- Significant Cost & Property Impacts

MINIMUM BUILD ALTERNATIVE DEVELOPED

MINIMUM BUILD

Interim Improvements with additional ramp improvements

Acceleration and deceleration lanes for Route 15SB on & off ramps, & Route 15NB off ramp

No significant crash pattern on Route 15NB on-ramp

ROUTE 15 - INTERCHANGE 59 W/ ROUTES 69 & 63
CITY OF NEW HAVEN & TOWN OF WOODBRIDGE
ALTERNATIVE 1



NEXT STEPS

- **Coordinate Further with Municipal Officials, as warranted (DPW, First Responders, Police Dept., etc.)**
- **Meet with Major Stakeholders — Directly affected businesses and individual property owners (Town participation requested)**
- **Hold a Public Informational Meeting — 2 Main Alternatives, and possible Fall-back Alternative**