

Village of Oak Park

123 Madison Street Oak Park, Illinois 60302 www.oak-park.us

Agenda Summary

File #: ID 15-218 Agenda Date: 7/13/2015

Submitted By

Bill McKenna, Village Engineer

Agenda Item Title

Eisenhower Expressway (I-290) Update and Discussion: Harlem Ave. and Austin Blvd. Traffic Analysis.

Overview

As discussed at the February 18, 2015 meeting of the Village Board, a series of Village Board Study Session are being held to allow Village Staff to present information related to elements of the future reconstruction of the I-290 through Oak Park. As a part of this meeting, information will be presented related to:

· Traffic analysis of Harlem Avenue and Austin Boulevard interchanges with I-290;

It is also noted that comment site has been opened on the Village website related to the traffic analysis and impacts on Harlem Avenue and Austin Boulevard. Residents are encouraged to review the information at the link and share their comments on the traffic analysis through Monday, July 13, 2015 at noon. The site can be found at www.oak-park.us/ikecomments

Anticipated Future Actions/Commitments

There will be a series of Village Board Study Session continuing throughout 2015 in order to provide an opportunity for discussion and consensus related to the reconstruction of I-290. The conclusion of these discussions will be to develop a draft Letter of Intent with the Illinois Department of Transportation. The final Letter of Intent will be presented to the Village Board for formal approval at the conclusion of the Study Sessions. This incremental approach was established as part of the February 18, 2015 discussion with the Village Board in order to provide a process to review the I-290 reconstruction.

Report

Staff has been meeting with Village President Abu-Taleb, Trustee Lueck and IDOT to review elements of the reconstruction. At the April 27, 2015 Board study session staff presented the progress and IDOT commitments for improved roadway geometry and sidewalk widths over I-290 to ensure adequate room for all modes of transportation.

This study session is the second in the series of discussions and focuses on the operation of the Harlem Avenue and Austin Boulevard interchanges with I-290 and the impact on traffic flow and pedestrian movements at these locations.

IDOT has provide the Village will a series of traffic models showing the current vehicle movements and

File #: ID 15-218 Agenda Date: 7/13/2015

existing congestion. Comparative traffic models are also provided and demonstrate the expected traffic functions and pedestrian movements that can be achieved with reconstruction of the interchanges at Harlem Avenue with the I-290 and at Austin Boulevard with the I-290.

At the conclusion of the traffic presentation, staff will also briefly note that discussions are also proceeding related noise impacts and that topic is tentatively scheduled for publicly review in August 2015. Additioanly, IDOT is developing a 3D model of the Harlem Avenue and Austin Boulevard interchanges for public review in the future in order to more fully inform the discussion related to proposed redesign of the Harlem Avenue and Austin Boulevard interchanges with I-290.

As previously affirmed by the Village Board, key local priorities and areas of concern in our continuing discussions and deliberations with the Illinois Department of Transportation include:

- 1. Safety and convenience for all users, e.g., pedestrians, cyclists, and persons of all ages and abilities, especially at the interchanges with Harlem and Austin;
- 2. Methods for avoiding or mitigate noise and/or air quality impacts;
- 3. CTA Blue Line improvements, including those generally described as "Urban Stitching";
- Locations and extent of expanded bridge decking options;
- 5. Elements related to corridor aesthetics and community identity;
- 6. Coordination with public critical utilities;
- 7. Project financing sources and any local obligations;
- 8. Construction planning and staging; and
- 9. Flexibility to discuss options beneficial to Oak Park.

Each of the future study sessions will focus on specific project design elements of local interest. As each study session is completed, new elements will be added to those comprising the Letter of Intent, progressing to a point where all local design and construction concerns have been discussed with consensus reached and documented.

The Letter of Intent will be presented for Village Board approval upon conclusion of all supporting study sessions and related negotiations, likely during Q4 2015, and will establish mutually agreed design elements for the project, specify any agreed cost-sharing, and document any other mutually agreed terms and conditions, such as construction-related staging and mitigation strategies.

File #: ID 15-218 **Agenda Date:** 7/13/2015

Alternatives

This is a presentation and discussion.

Village Board Study Session

Traffic and Operational Analysis of Harlem Ave & Austin Blvd Interchanges with I-290

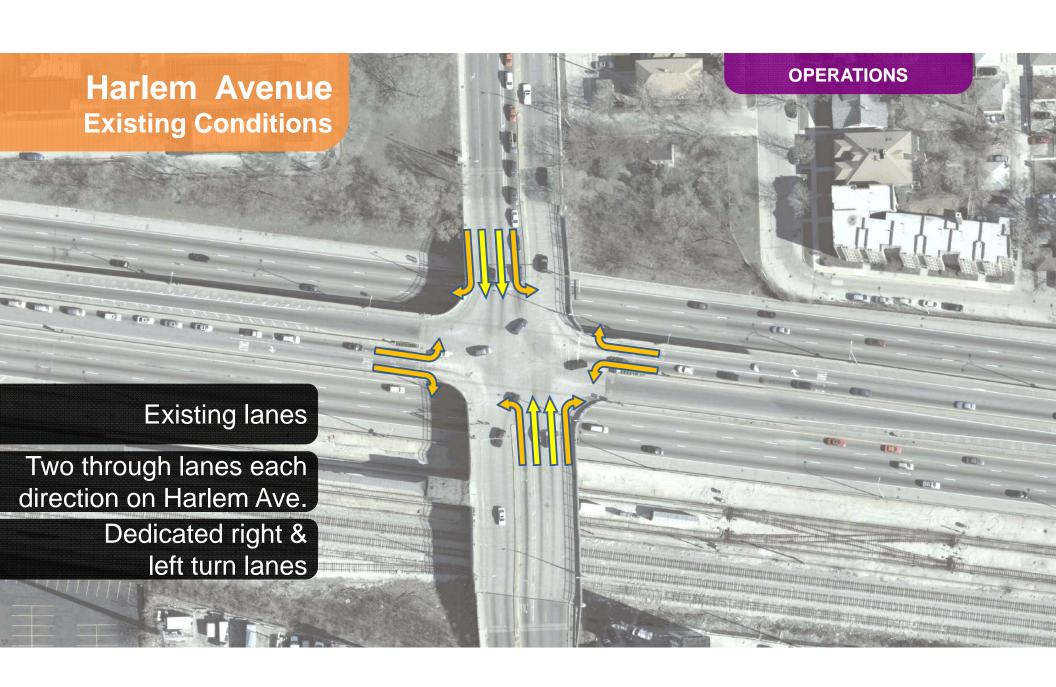


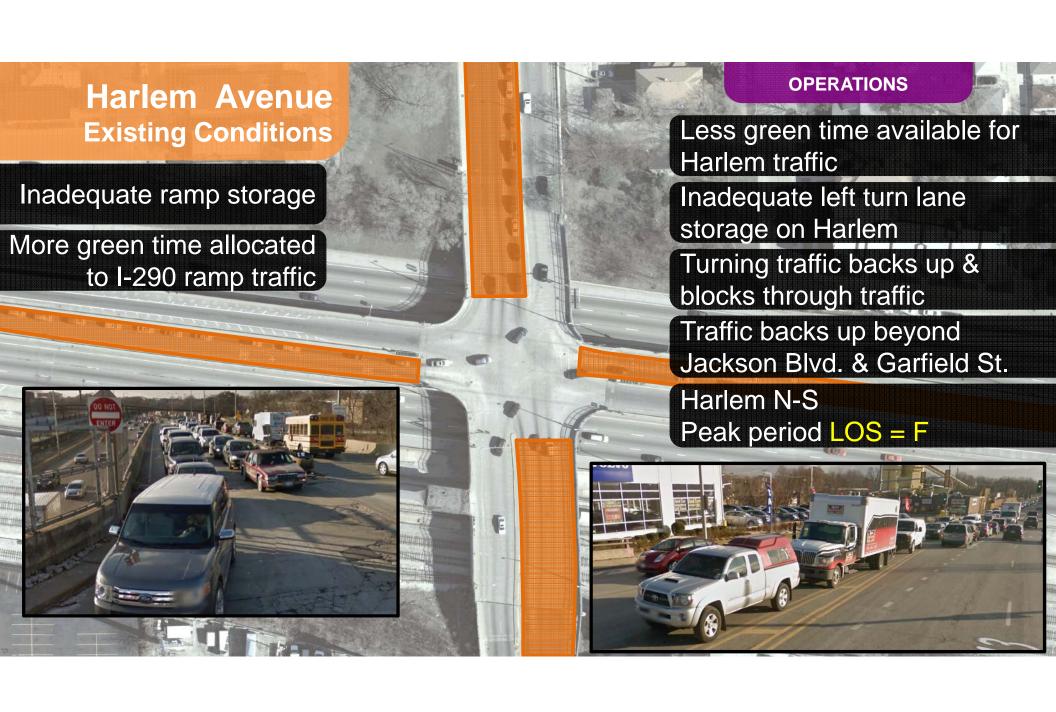
Traffic & Operations at Interchanges

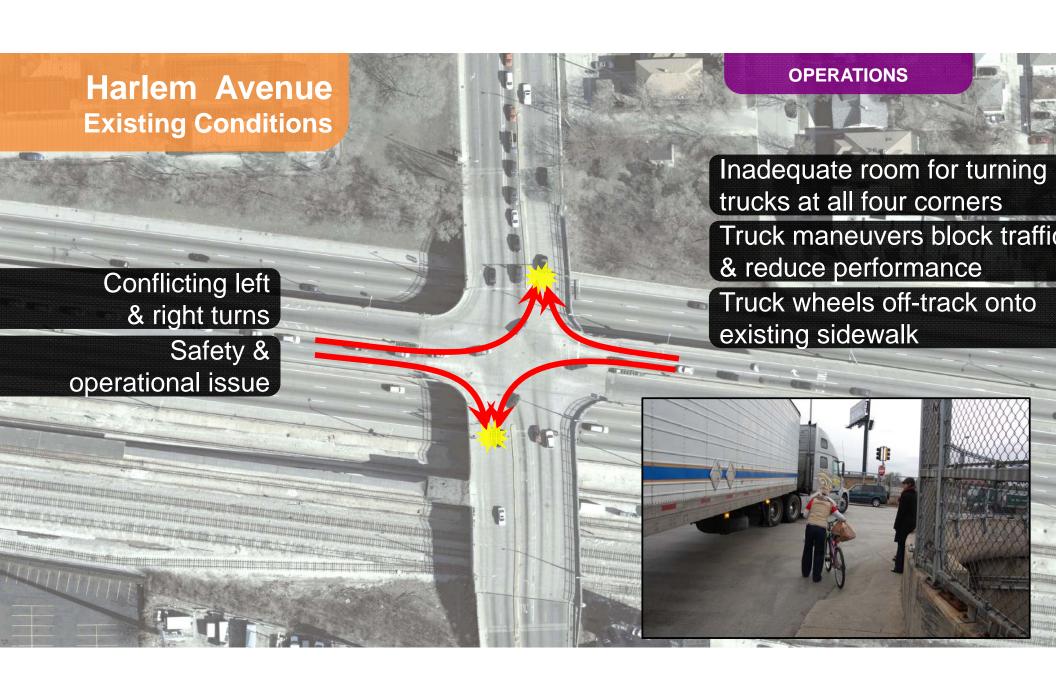
- Harlem Ave & I-290 Interchange
 - Existing & Proposed Operations of Interchange
 - Traffic Analysis
- Austin Blvd & I-290 Interchange
 - Existing & Proposed Operations of Interchange
 - Traffic Analysis
- Introduction of future topics

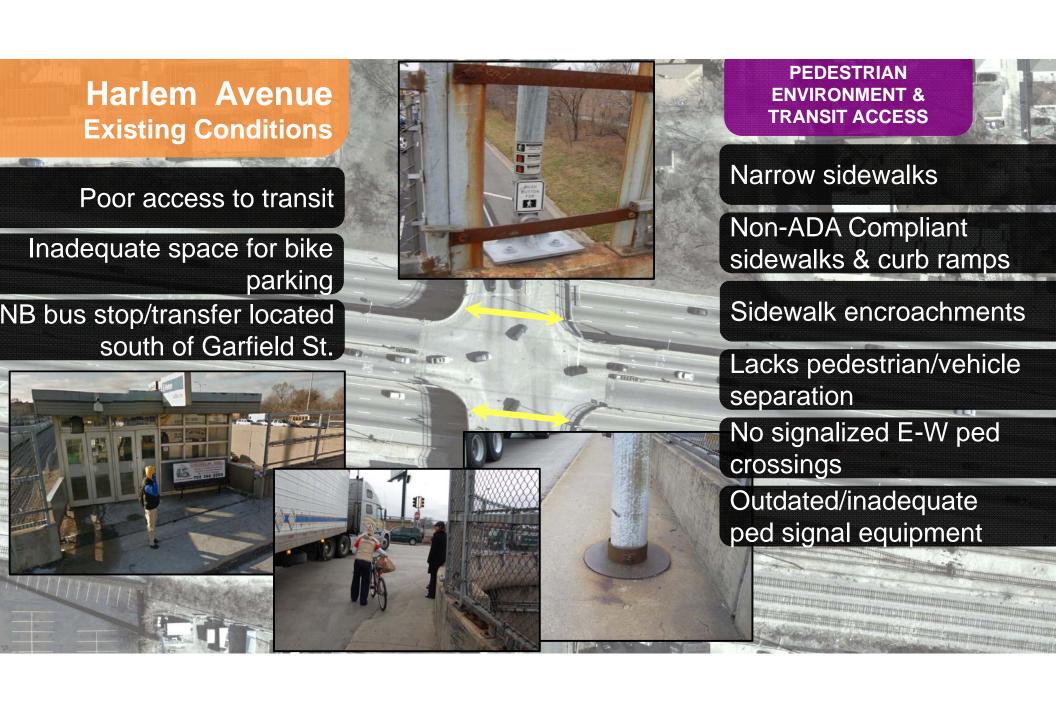


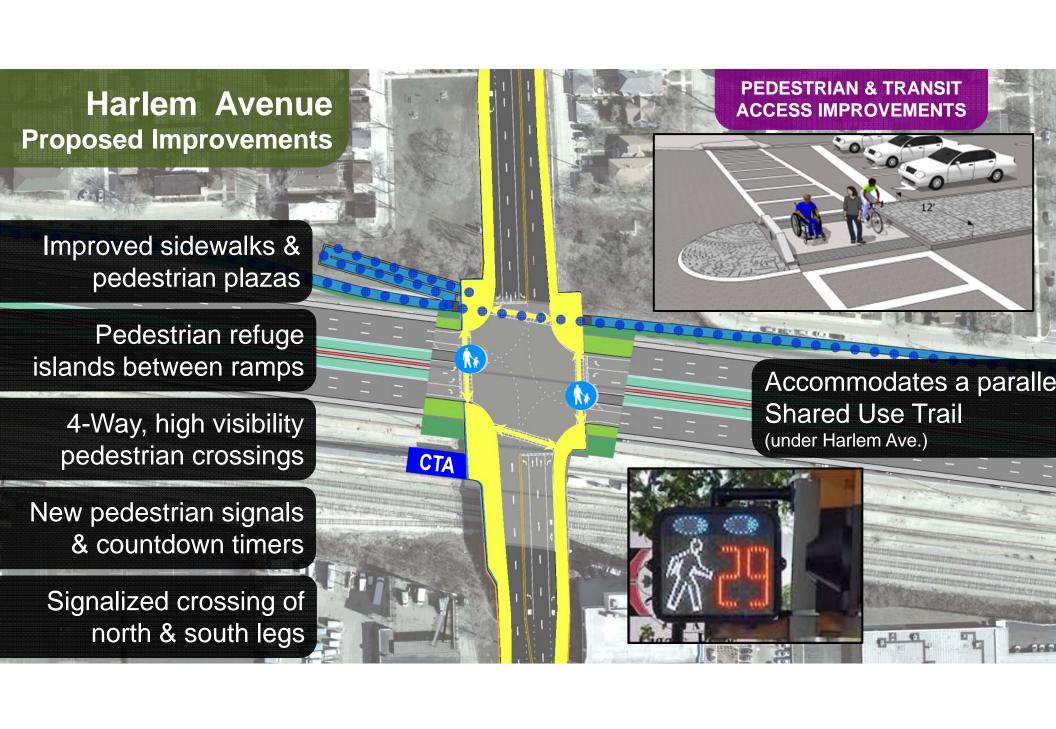


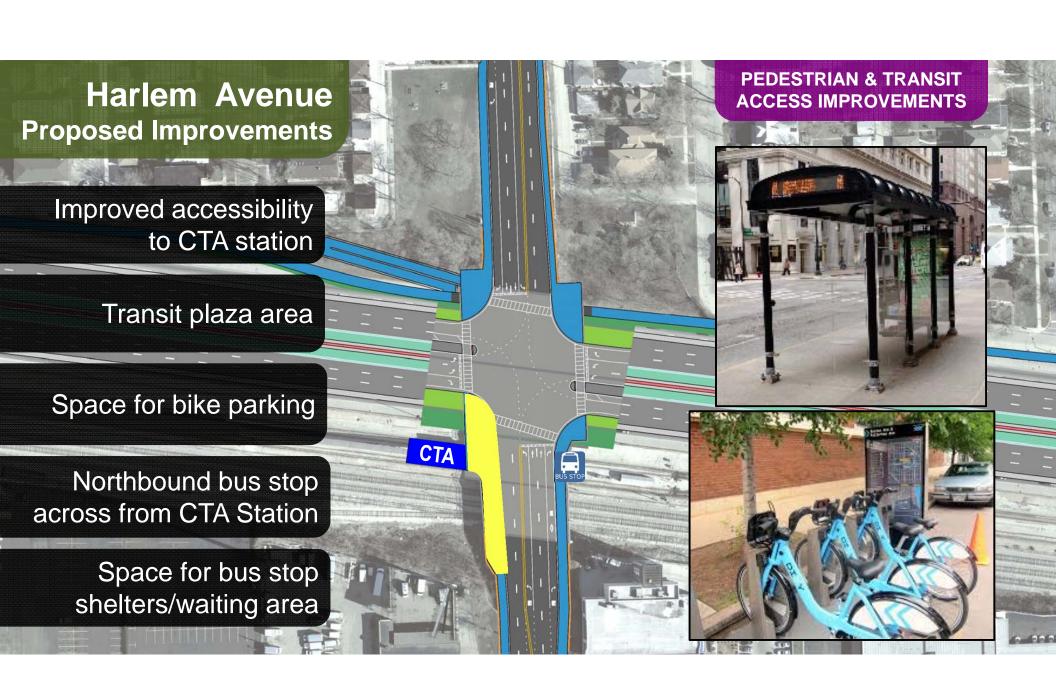


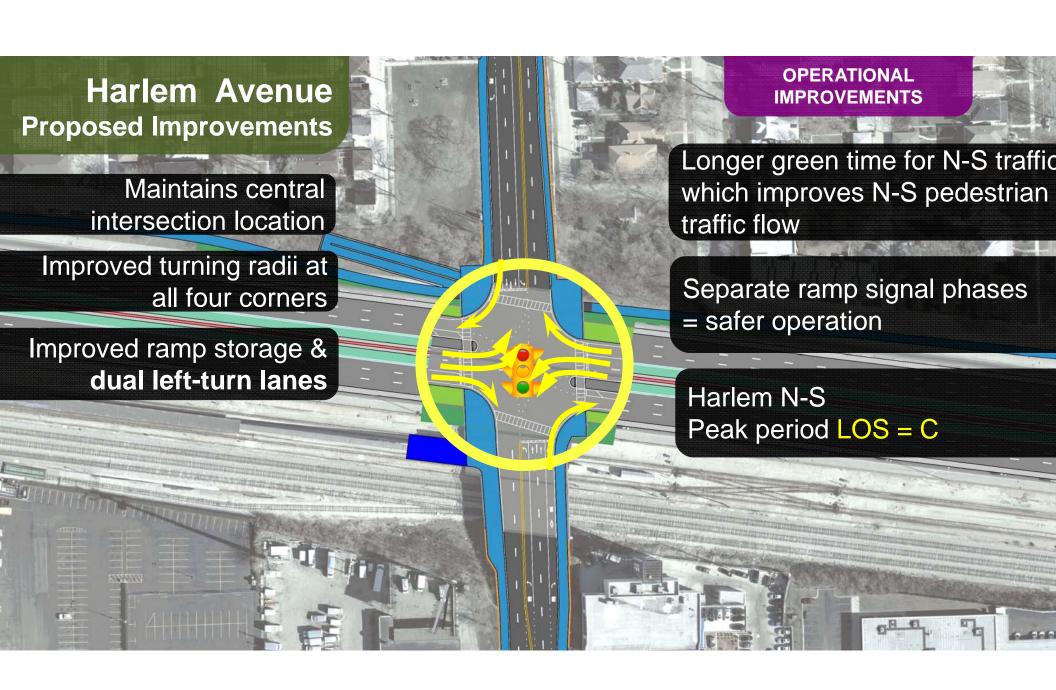












Before & After Traffic Simulation

Harlem Avenue Proposed Improvements

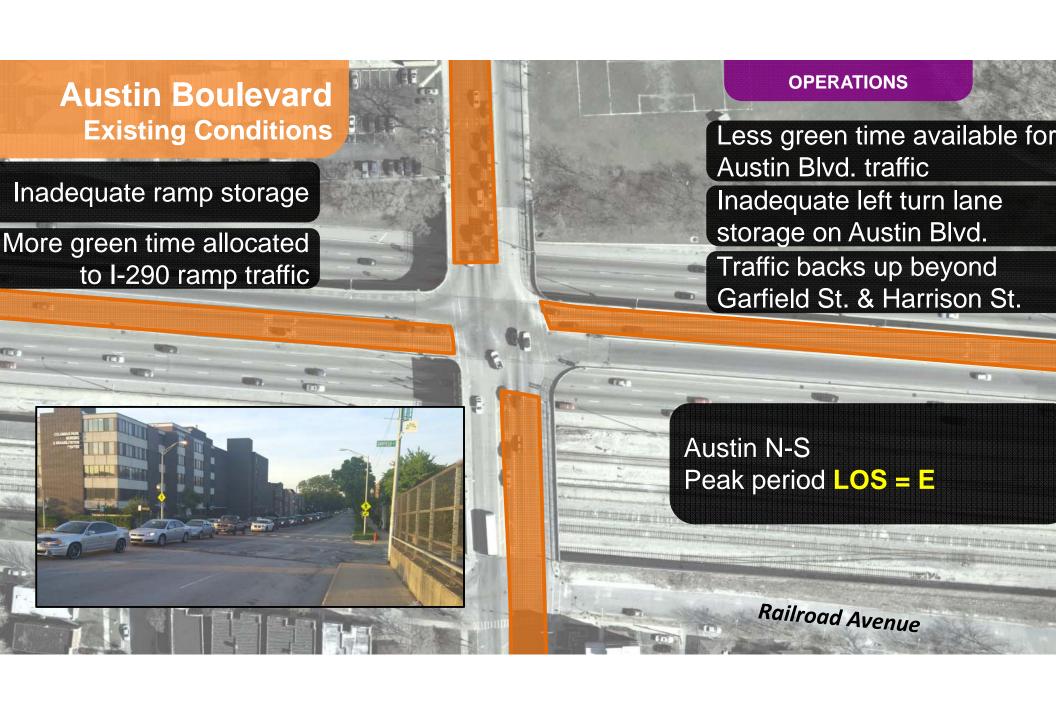


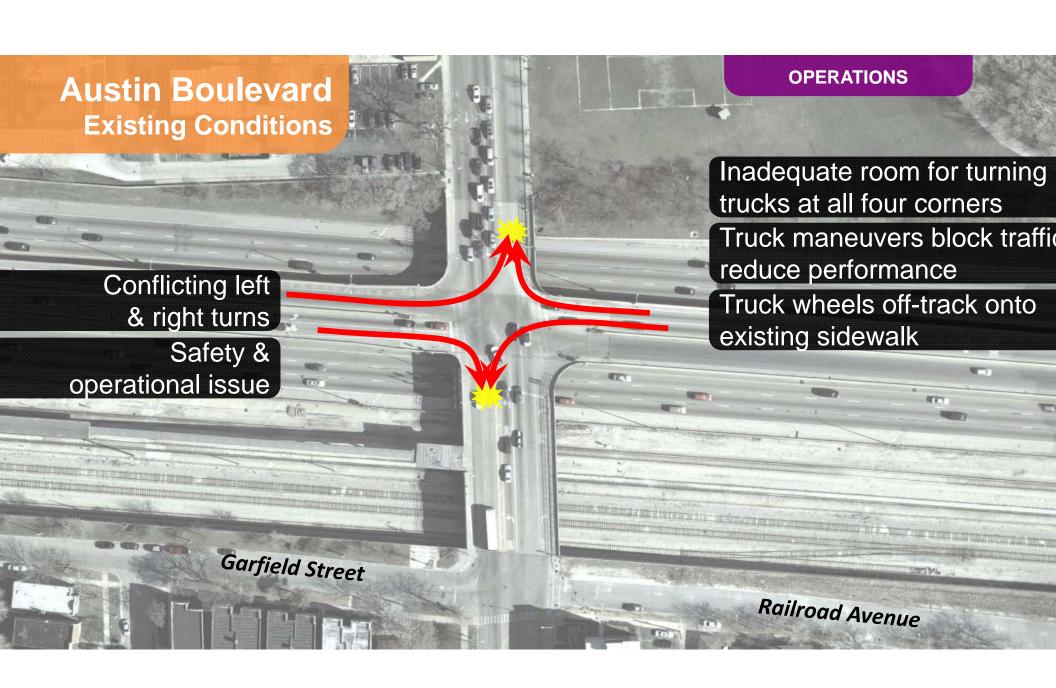
Before & After Traffic Simulation

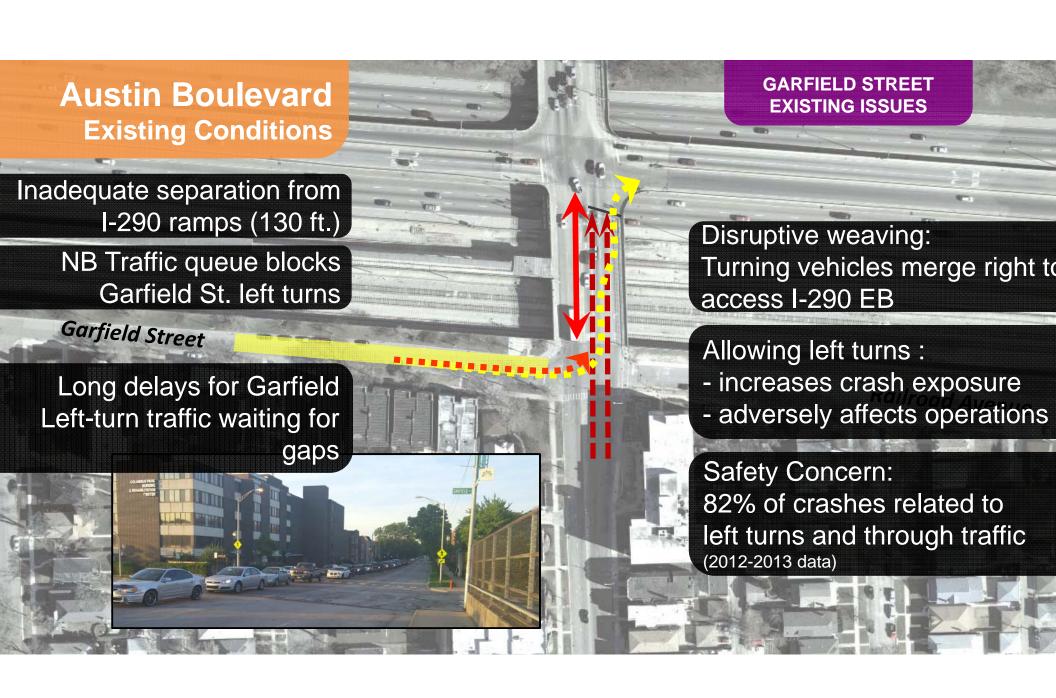
Harlem Avenue Proposed Improvements



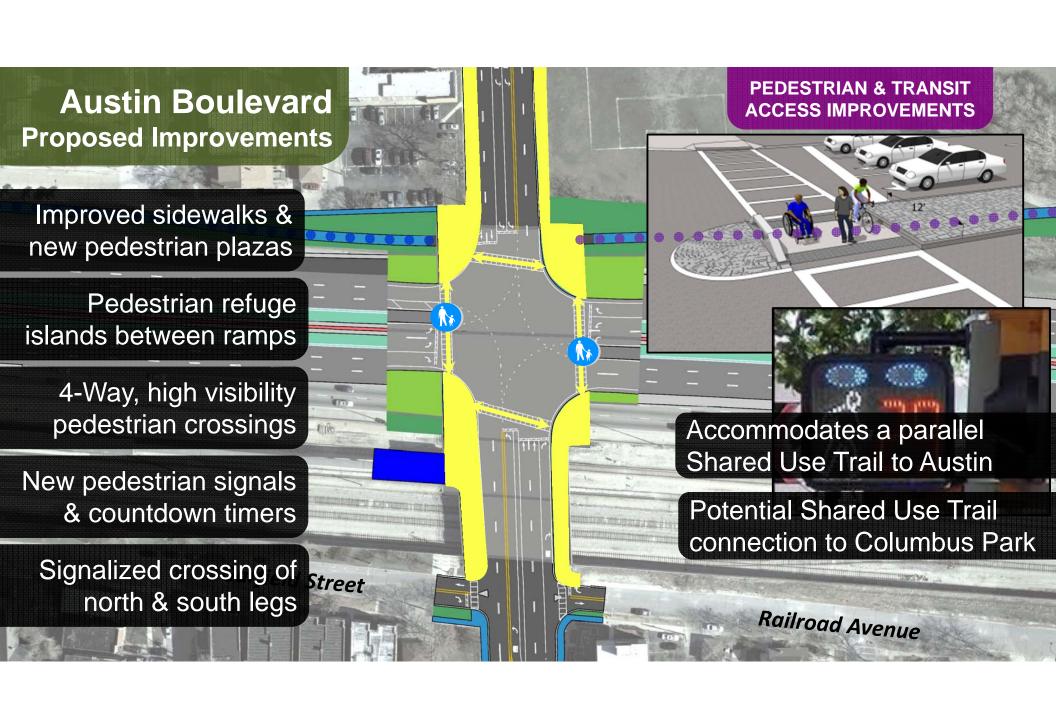


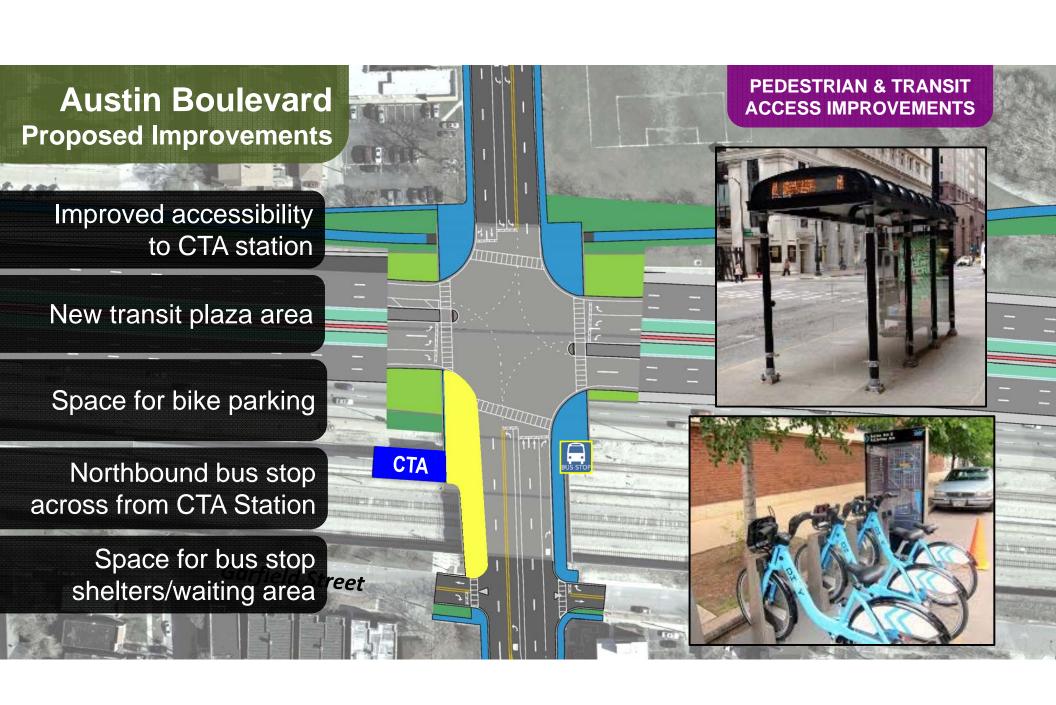


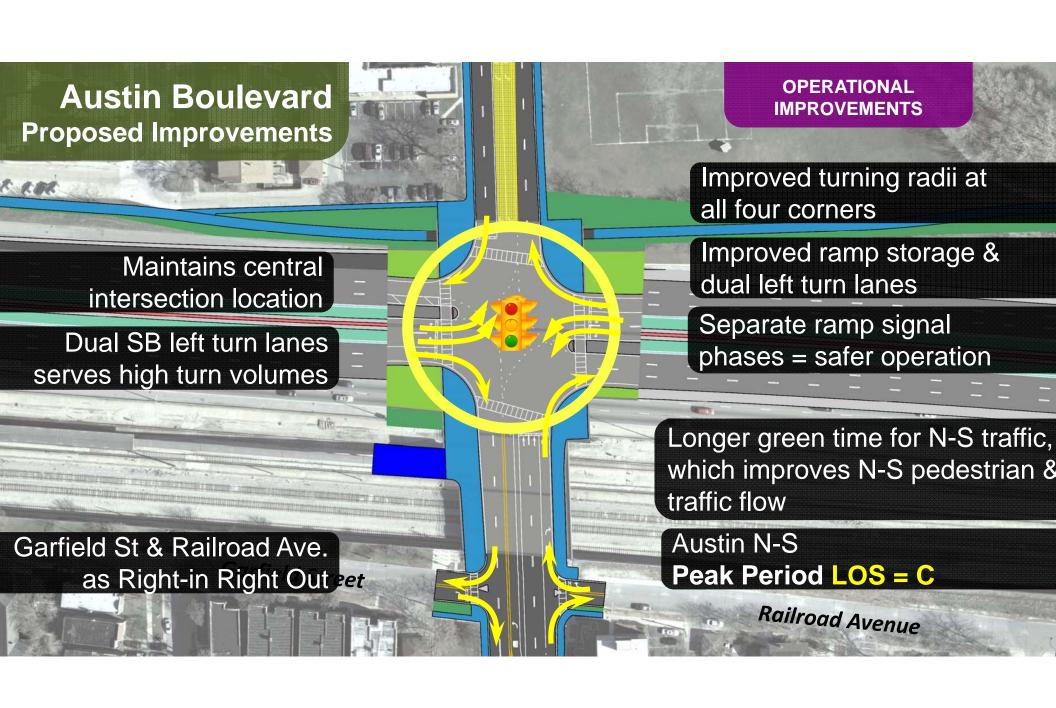


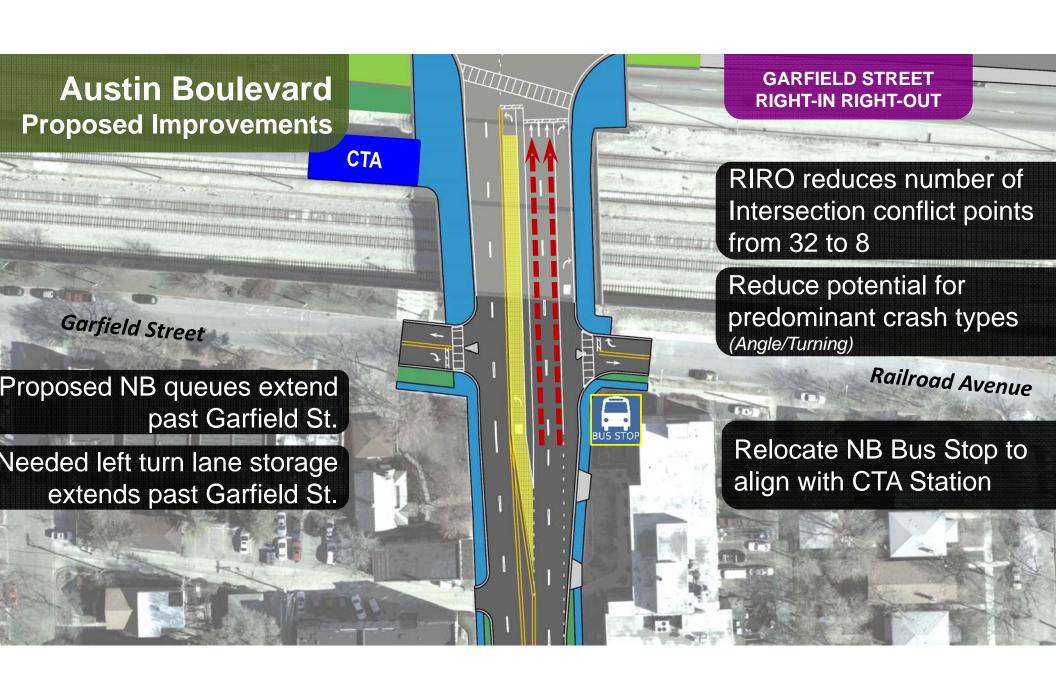


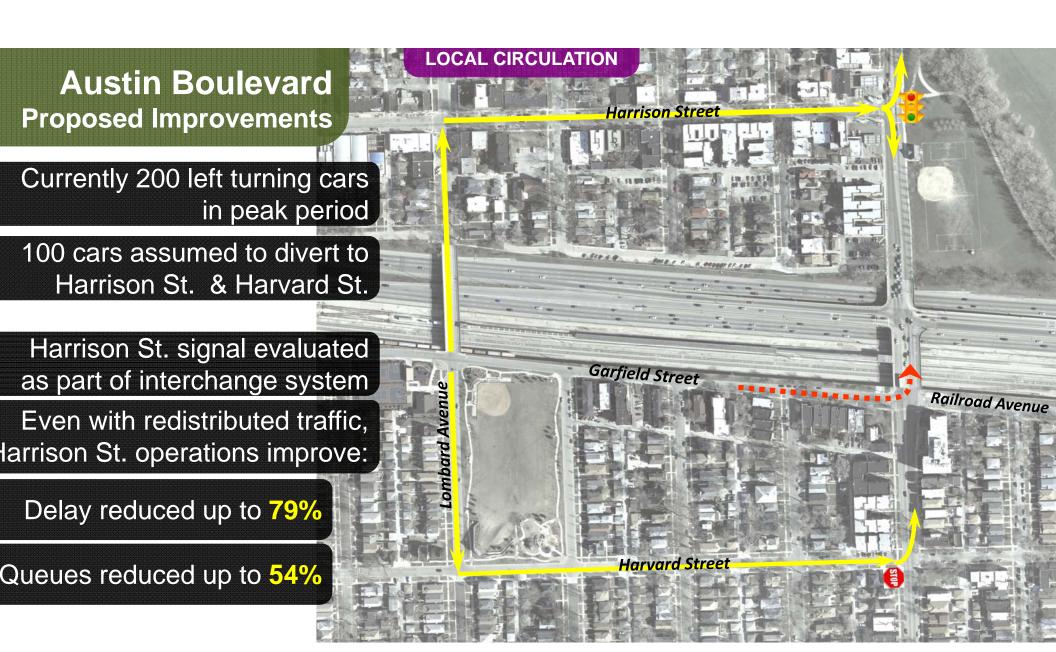












Austin Boulevard Proposed Improvements

Before & After Traffic Simulation



Before & After Traffic Simulation

Austin Boulevard Proposed Improvements



Summary of Interchange Improvements

Harlem Avenue & Austin Boulevard

- Improved access to transit and transfers
- Wider sidewalks
- ADA Accessibility throughout
- Improved and safer ramp pedestrian crossings
- Improved signals and pedestrian countdown timers
- Bike accommodations at transit stations
- East-west shared use path connections
- Improved truck turn accommodations





Harlem Ave Traffic Operations

Harlem Avenue Operations

- Overall LOS from F to D
- N-S Queue at Harlem/Garfield reduced up to 61%
- E-W Queue at Harlem/Garfield reduced up to 59%
- E-W Queue at Harlem/Jackson reduced up to 35%
- N-S Delay reduced up to 86%





Austin Blvd Traffic Operations

Austin Boulevard Operations

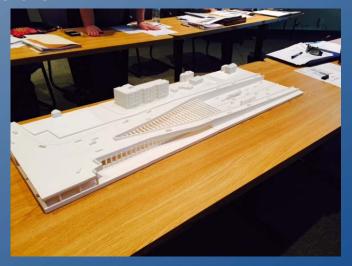
- Overall LOS from E to C
- EB Queue at Austin/Harrison reduced up to 70%
- E-W Queue at Austin/I-290 ramps reduced up to 70%
- E-W Queue at Austin/Garfield reduced up to 92%
- N-S Queue at Austin/Garfield reduced up to 73%
- N-S Delay reductions up to 76%





Future Study Session Topics

- Harlem Ave Interchange Design Discussion
- Traffic Noise Analysis
- Public Presentation of 3D Model







AM Level of Service No Build / Build

11r

F/E D/C

11

55. 5. 5.

B/B D/C

PM Level of Service No Build / Build

11 COO

1ir

C/C E/E

F/D F/D F/C



 AM

Harlem Ave North/South Delay (Jackson Blvd to Harrison St)

	No-Build	Build	Total Change (s)	% Change
NB Delay (sec/veh	301	97	-204	-68%
SB Delay (sec/veh)	104	86	-18	-17%

PM

Harlem Ave North/South Delay (Jackson Blvd to Harrison St)

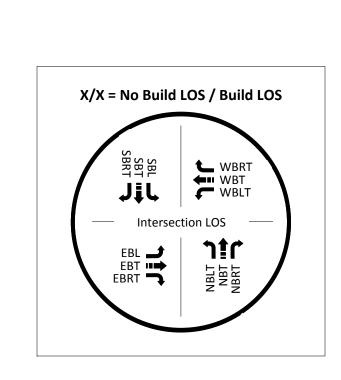
	No-Build	Build	Total Change (s)	% Change
NB Delay (sec/veh	465	67	-398	-86%
SB Delay (sec/veh)	134	68	-66	-49%



Level of Service Comparison between

No Build and Build

during AM and PM peaks



AM Level of Service No Build / Build PM Level of Service No Build / Build



Austin Blvd North/South Delay (Harrison St to Garfield St)

	No-Build	Build	Total Change (s)	% Change
NB Delay (sec/veh	80	72	-8	-10%
SB Delay (sec/veh)	309	75	-234	-76%



PM

Austin Blvd North/South Delay (Harrison St to Garfield St)

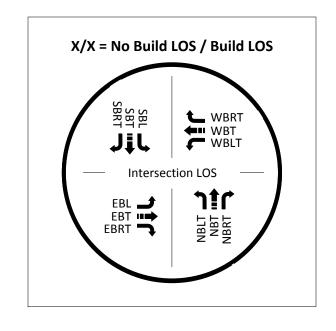
	No-Build	Build	Total Change (s)	% Change
NB Delay (sec/veh	84	79	-5	-6%
SB Delay (sec/veh)	92	85	-7	-8%

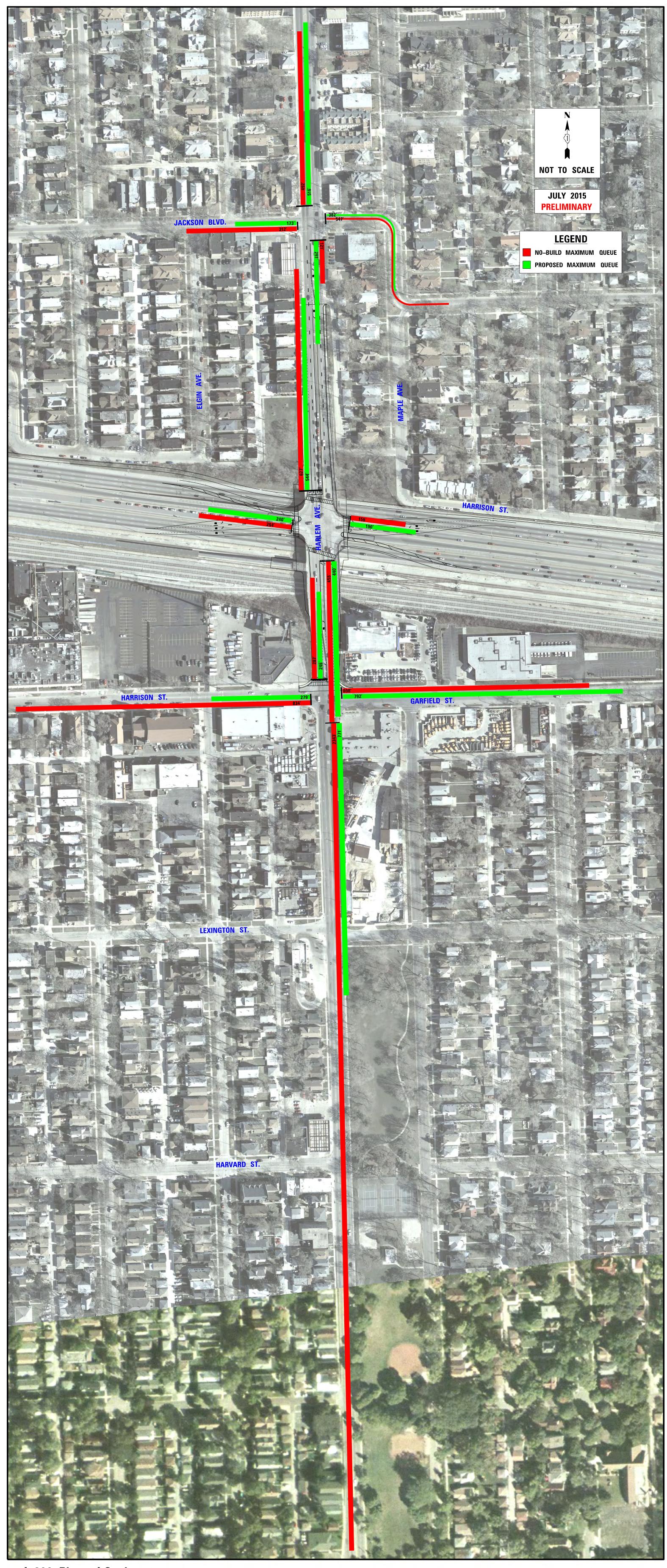
Austin Boulevard

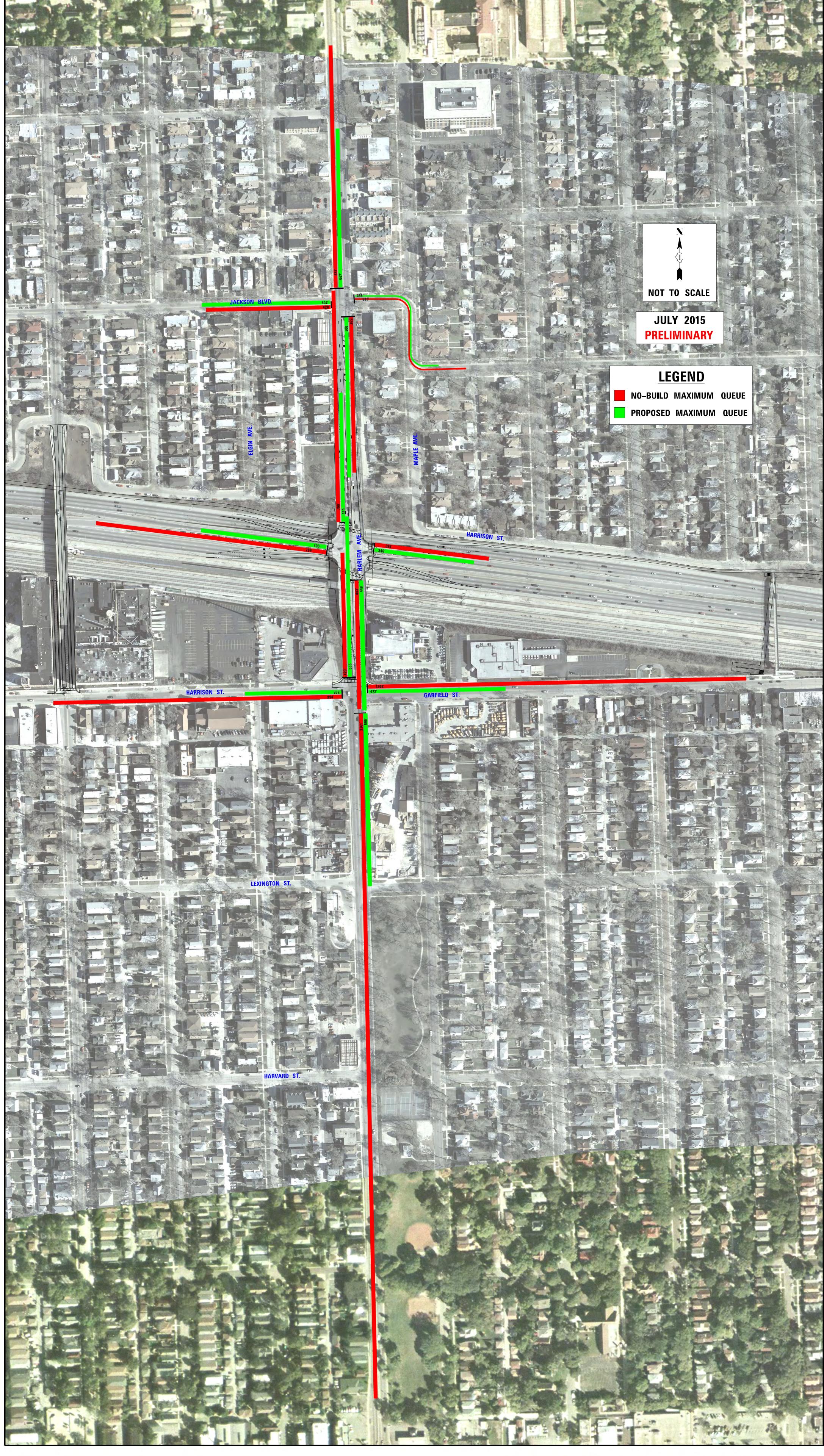
Level of Service Comparison between

No Build and Build

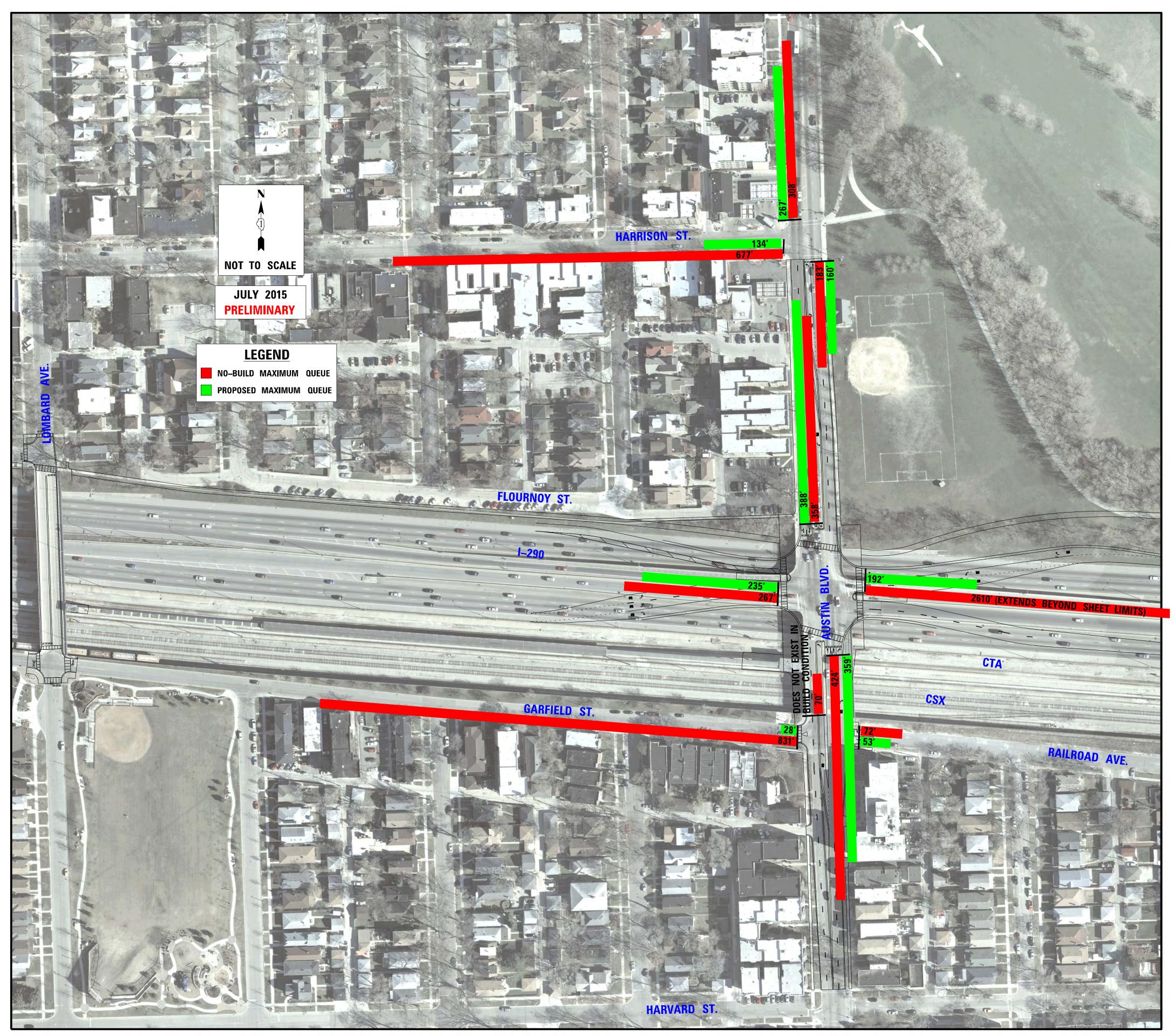
during AM and PM peaks











I–290 Phase I Study Austin Avenue

QUEUE LENGTHS – PM PEAK
NO-BUILD VS. PROPOSED

