

# Lane Avenue Traffic Study

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Joy Lanham & Jackie Thiel – June 15<sup>th</sup>, 2020 Council Meeting



# Traffic Study

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## Purpose

- Evaluate Existing Capacity
- Determine Future Demand
- Future Needs for Development
- Recommend Improvements



# Study Area

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Whole Corridor - Riverside Dr to SR-315

“Downtown Core” = Northwest Blvd to Northstar Rd





# Traffic Data

83% of Corridor traffic is not complete cut-through



# Traffic Operations

Level of Service	Control delay per vehicle (in seconds) for unsignalized intersections	Control delay per vehicle (in seconds) for signalized intersections
A	< 10	< 10
B	10 - 15	10 - 20
C	15 - 25	20 - 35
D	25 - 35	35 - 55
E	35 - 50	55 - 80
F*	> 50	> 80

\*LOS F is given to any approach with volume exceeding capacity





# 2030 No Build – No New Developments

2030 PM No Build – WB 2 Thru Lanes



2030 PM No Build – WB 1 Thru Lane



# 2030 Build - New Developments

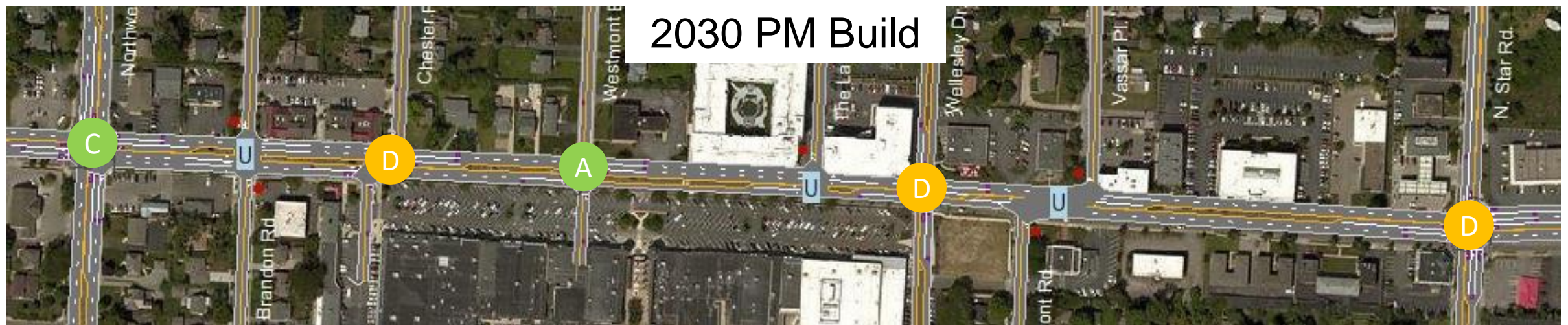
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- Includes potential future redevelopment
- Maximum density possible for each land use
- Includes parking structures





# 2030 Build - With New Developments





# Recommended Improvements

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- Existing, Short Term, Long Term Concept Layouts
- Intersection LOS/Delay and Approaches E or F
- Short Term = Can be done now or w/CIP project
- Medium/Long Term = Future improvement to occur with redevelopment

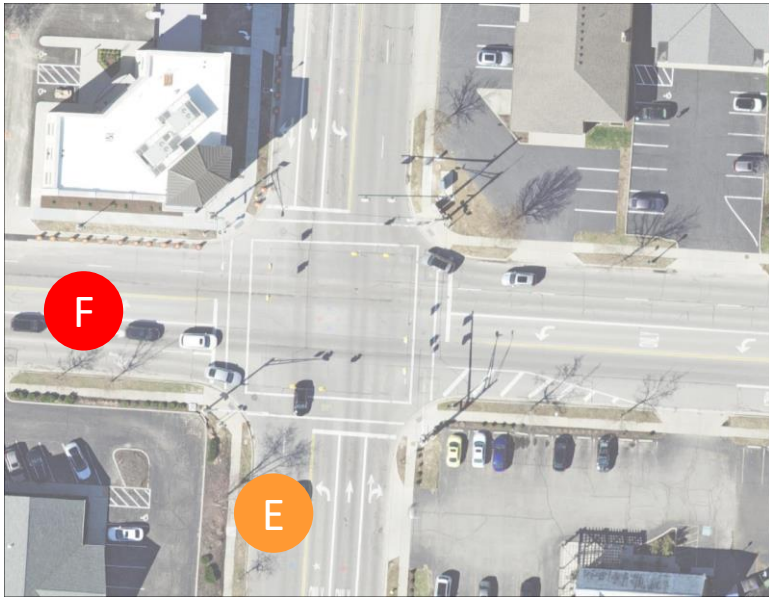


# Northwest Boulevard and Lane Avenue

## Existing

AM LOS/Delay = E/76

PM LOS/Delay = D/48



## Short Term

AM LOS/Delay = C/23

PM LOS/Delay = D/46



- Restripe eastbound approach to extend second through lane, move drop right turn lane to Chester Road.

## Long Term

AM LOS/Delay = C/21

PM LOS/Delay = D/42



- Add a northbound right turn lane
- Widen intersection





# Chester Road and Lane Avenue

## Existing

AM LOS/Delay = B/23

PM LOS/Delay = B/17

## Short Term

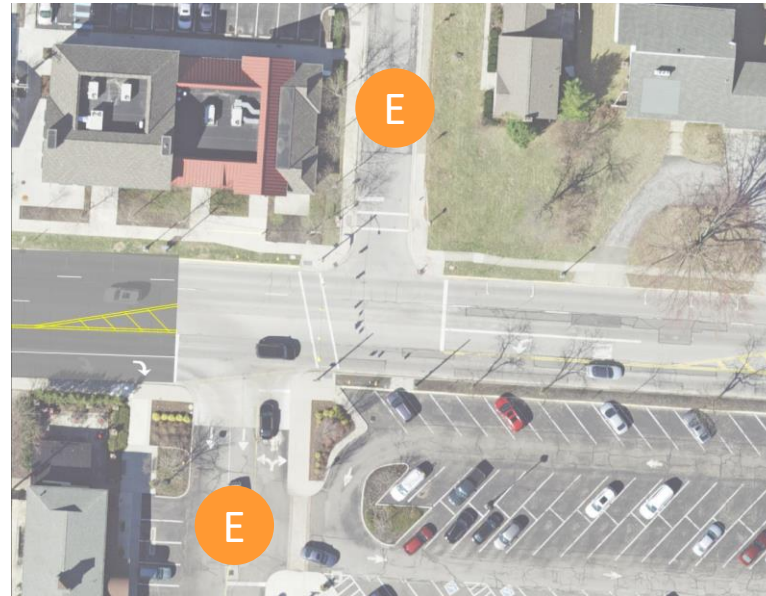
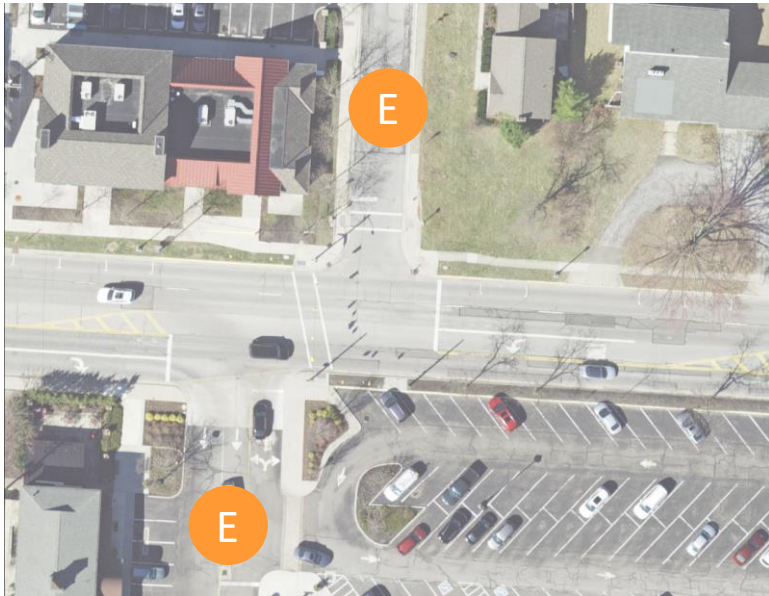
AM LOS/Delay = B/13

PM LOS/Delay = B/17

## Long Term

AM LOS/Delay = A/5

PM LOS/Delay = A/8



- Extend two EB through lanes from Northwest Blvd to Chester Road

- Realign Chester Road

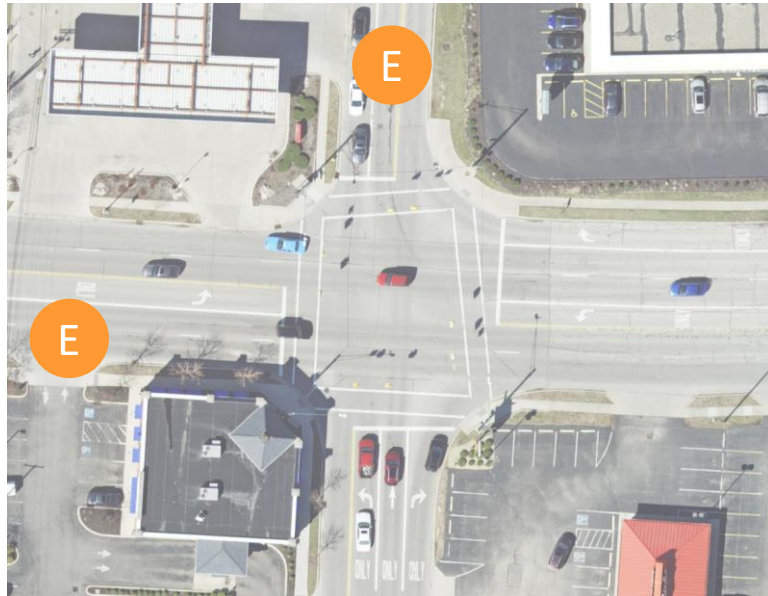


# North Star Road and Lane Avenue

## Existing

AM LOS/Delay = D/43

PM LOS/Delay = C/34



## Long Term Options Explored

- Add exclusive EB RT lane
  - Can only be done with redevelopment
- Rebuild traffic signal with Lane Ave. Streetscape Project





# Questions?

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