

The logo is a circular emblem. The outer ring contains the words "NORTH RICHLAND HILLS CITY COUNCIL" at the top and "TEXAS" at the bottom. The inner circle features a five-pointed star with a compass rose design, surrounded by a laurel wreath. The background of the slide is a dark blue gradient.

# North Richland Hills City Council Work Session Meeting

September 9, 2024

# Traffic Discussion North College Circle



City Council Work Session  
September 9, 2024

# North College Circle: Brief History

Circa 1963

— North College Circle (Platted 1959/60: Smithfield)

— Fort Worth Christian Campus (Est.1958)

— College Hills Neighborhood

— Early Connections to FM 1938 Davis  
Boulevard & Future Holiday Lane



# North College Circle - Overview

## Designation:

Minor Collector

Length: 2,850 LF

Width: +/- 36'

## Segment includes:

5 Intersections; 2 of which are controlled by multiway stops and 22 private driveways

## Traffic Types: School(s),

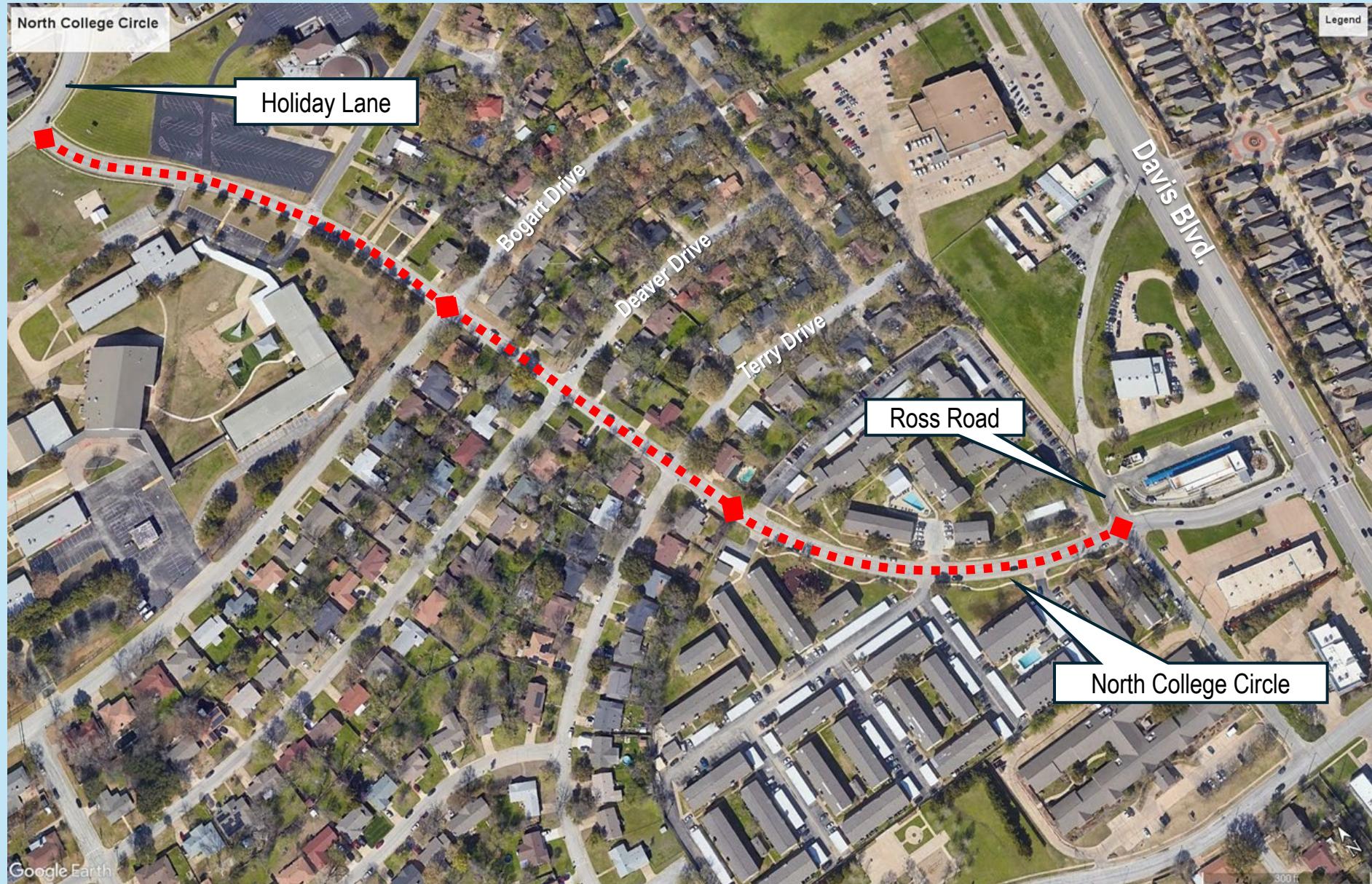
Churches, Car Wash,  
Neighborhood, Shopping Center,  
Apartment and Post Office



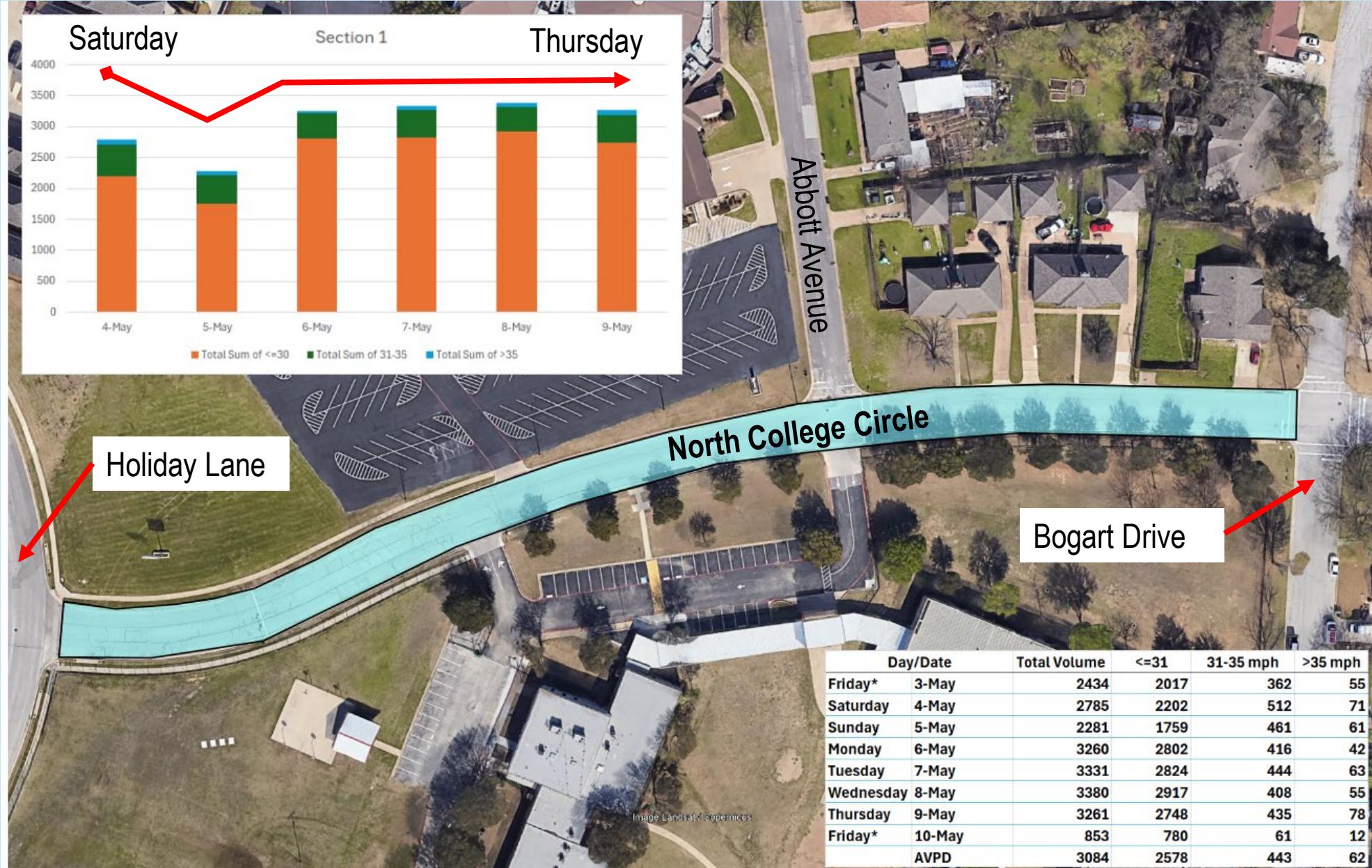
# North College Circle: Volume & Speed Study

## Study Sections:

- Section 1:
  - Holiday Lane to Bogart Drive
- Section 2:
  - Bogart Drive to South of Terry Drive
- Section 3:
  - Ross Road to South of Terry Drive
- Data collected May 2024



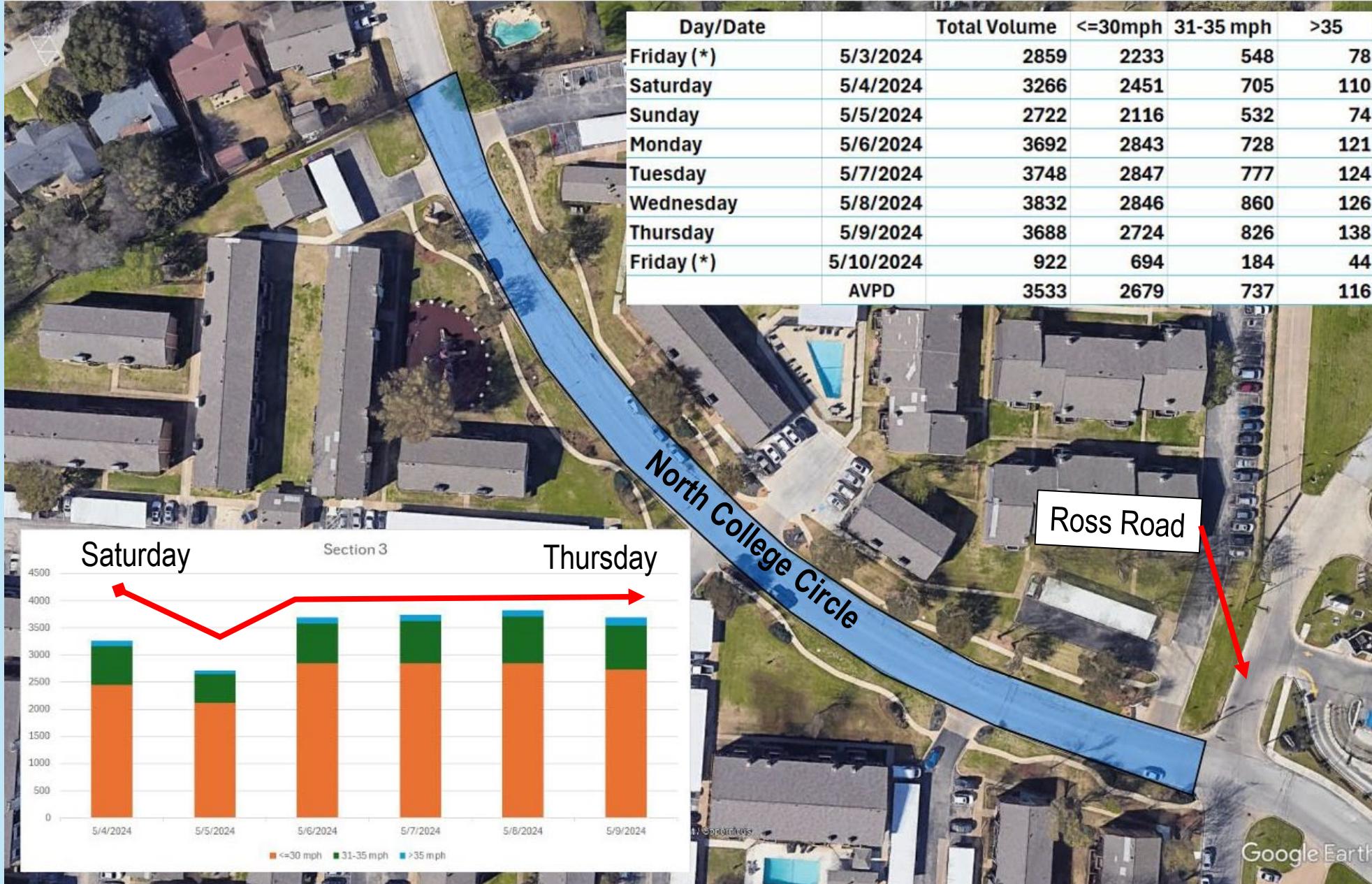
# Volume and Speed Data – Section 1



# Volume and Speed Data- Section 2



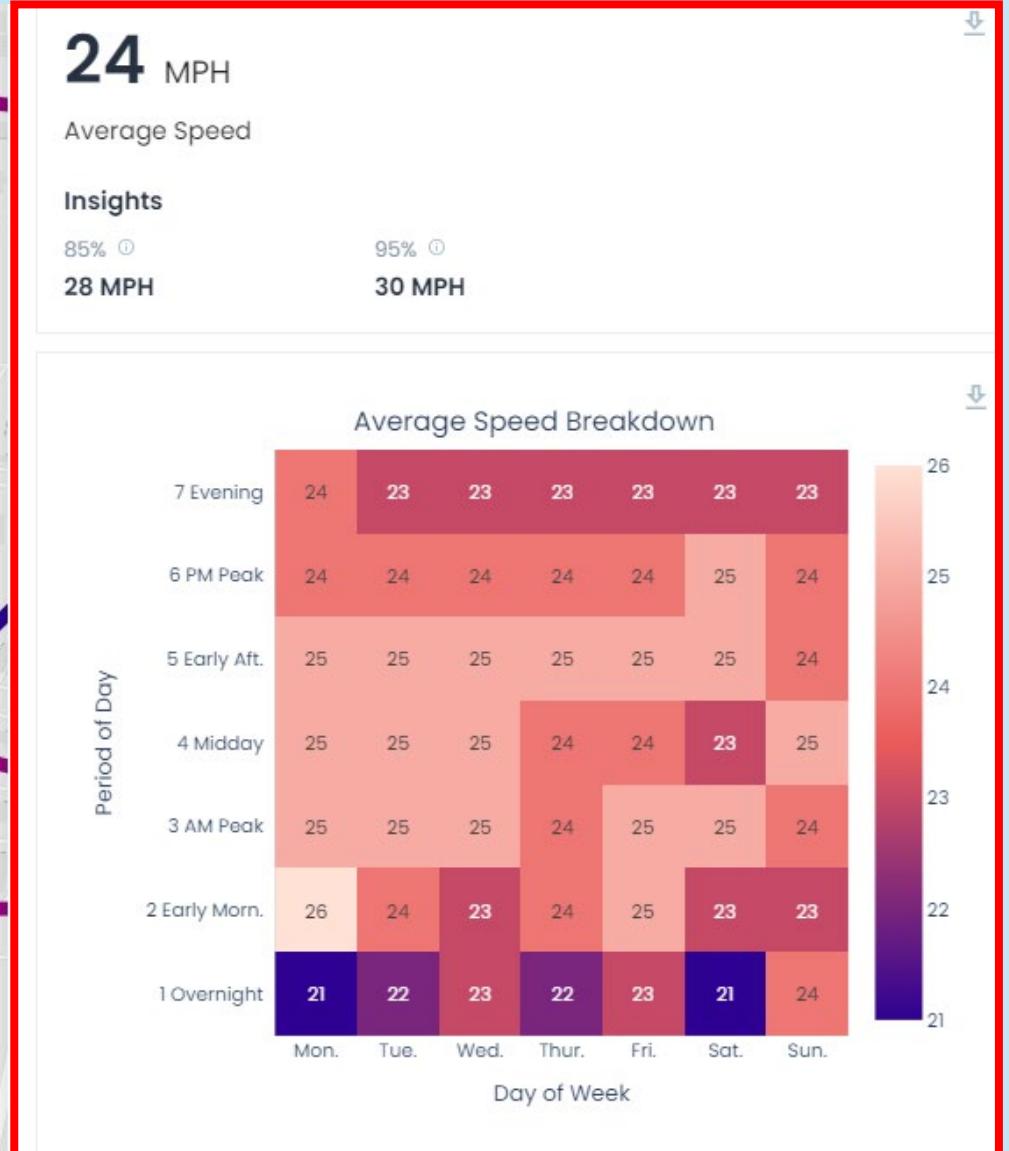
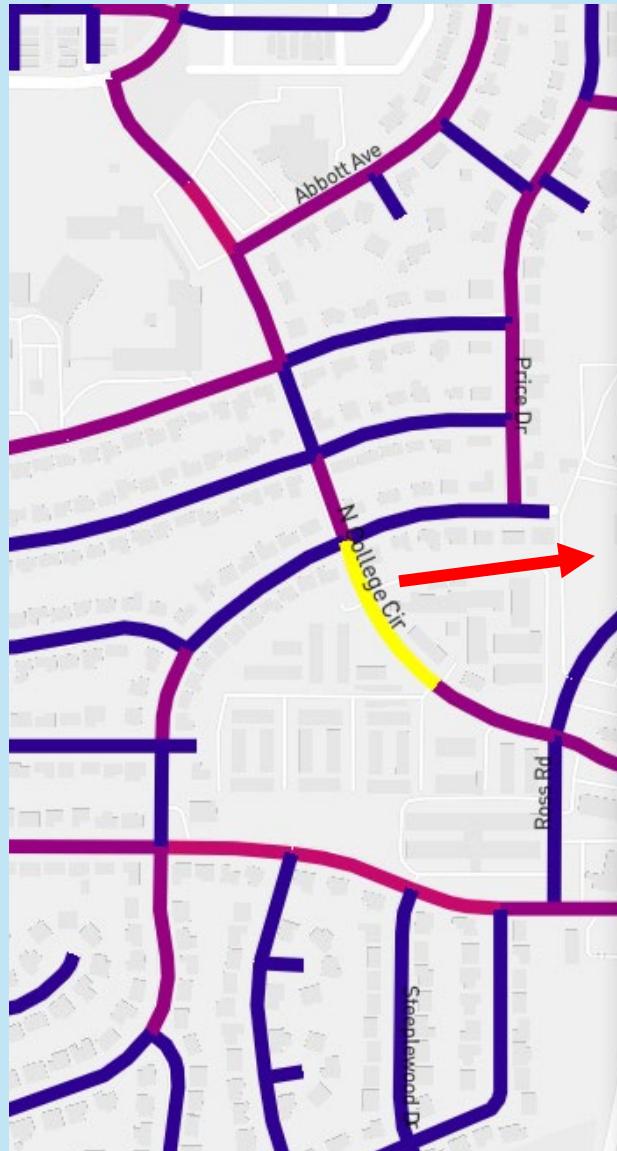
# Volume and Speed Data- Section 3

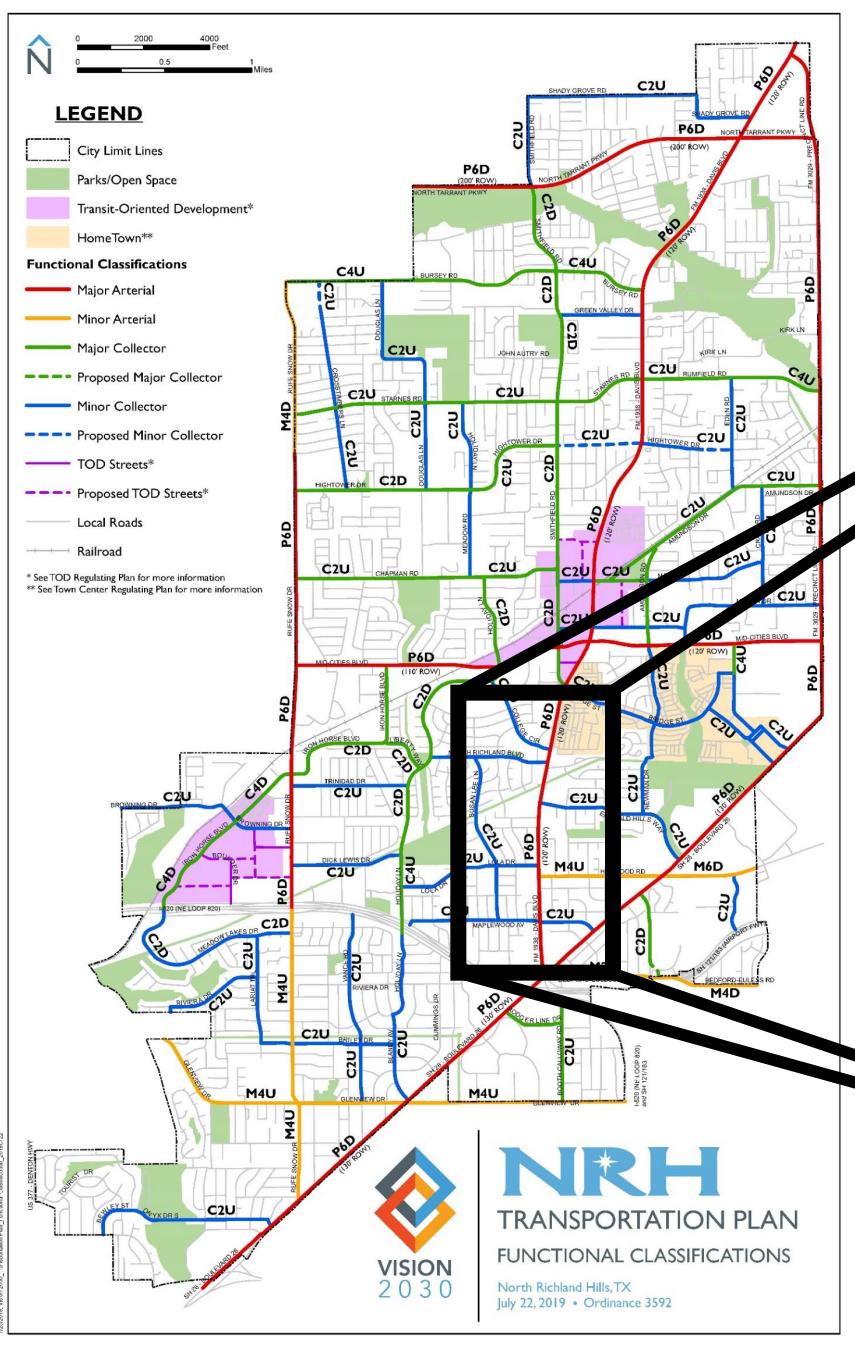


# Alternative Speed Data Collection

## Urban SDK:

- Connected Vehicle Data
  - Information gathered by vehicles that have internet connectivity and sensors like GPS systems
- Telematics Data
  - In-Car Electronic components and technology that collects, processes, and transmits vehicle data
- Quick Monthly Snapshot of the City with regards to speeds.





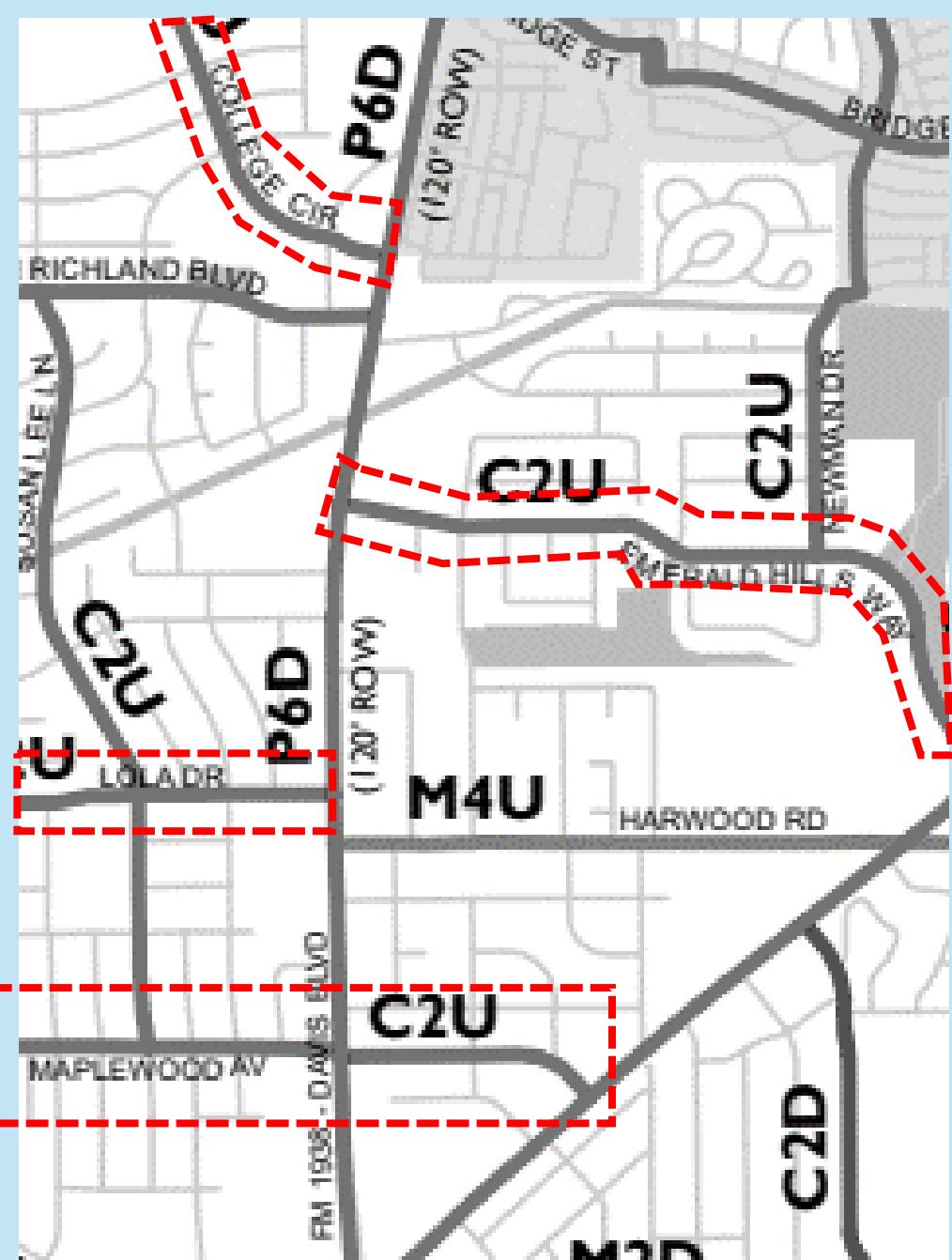
# Corridor Comparisons



# Intersection Comparisons

| Comparable Intersection:<br>Davis Blvd @ | Traffic Volume* | % of N. College Circle | Designation     |
|--|-----------------|------------------------|-----------------|
| Maplewood Drive                          | 6105 EB/day     | +123%                  | Minor Collector |
|  | 3982 WB/day     | +45%                   |                 |
| Lola Drive                               | 5197 EB/day     | +90%                   | Minor Collector |
| Emerald Hills                            | 7831 WB/day     | +186%                  | Minor Collector |
| N. College Circle                        | 2733 EB/day     |                        | Minor Collector |

\*Volumes are from Tuesday 8/27/2024 12am to Wednesday 8/28/2024 11:59pm



# Accident History

| Year     | Private Property | TxDOT Roadway | City Street |
|----------|------------------|---------------|-------------|
| 2021     | 1                | 3             | 2           |
| 2022     | 2                | 4             | 1           |
| 2023     | 3                | 5             | 1           |
| 2024 YTD | 0                | 1             | 3           |
| Totals   | 6                | 13            | 7           |

## City Street Accident Information:

- 7 accidents in 3 ½ Years
- 2 of which are damage to parked vehicles
- 2 of which occurred at the intersection of Ross, unsafe speed and failed to yield ROW.
- 1 accident involving a pedestrian
- 2 accidents involving vehicles turning onto College Circle either from a parking lot or Holiday Lane



# Parking Locations

No Parking



Parking Allowed

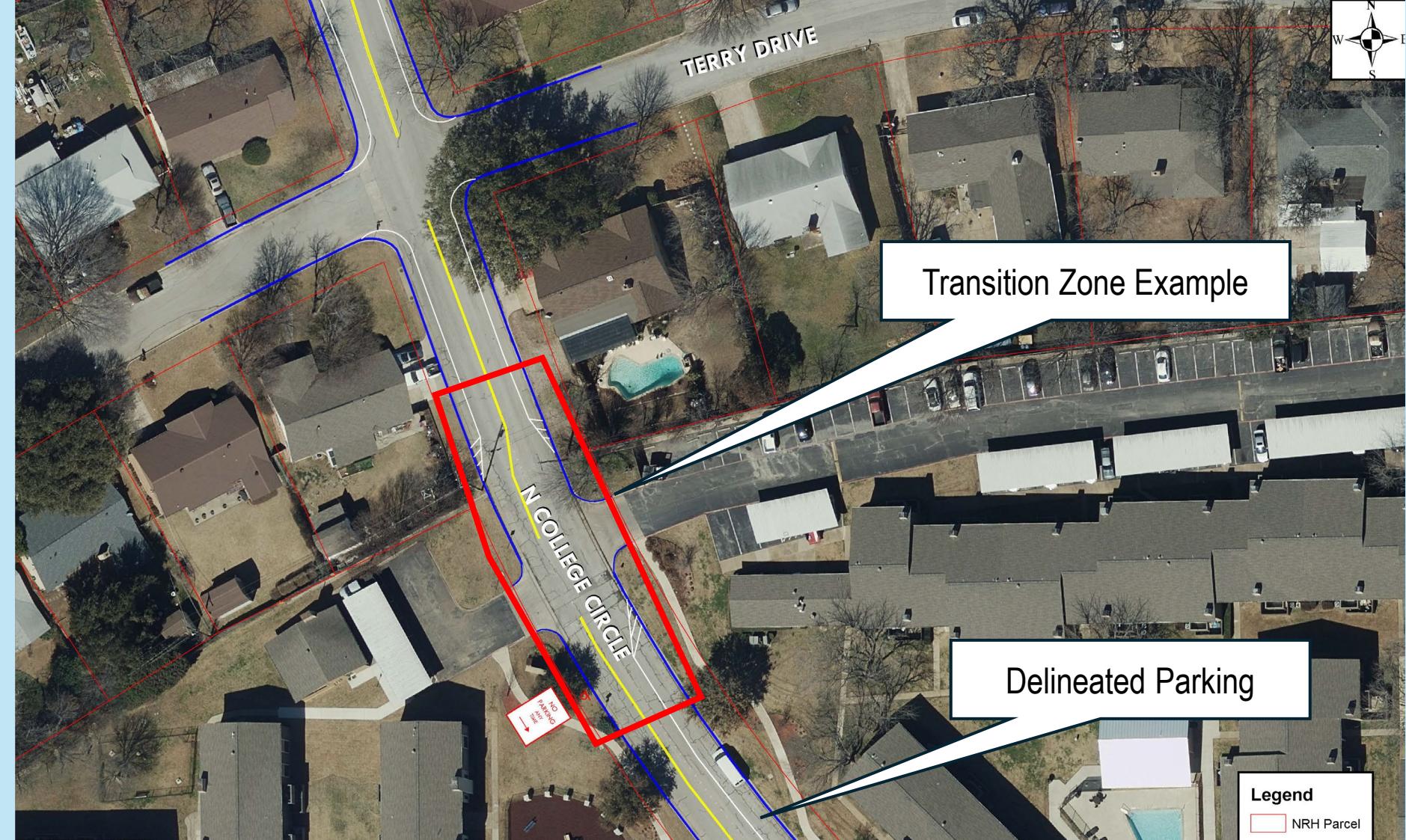


- Parking and Travel Lane Widths Vary
- Lane Delineations are Faded



# In-Design: Pavement Marking Plan

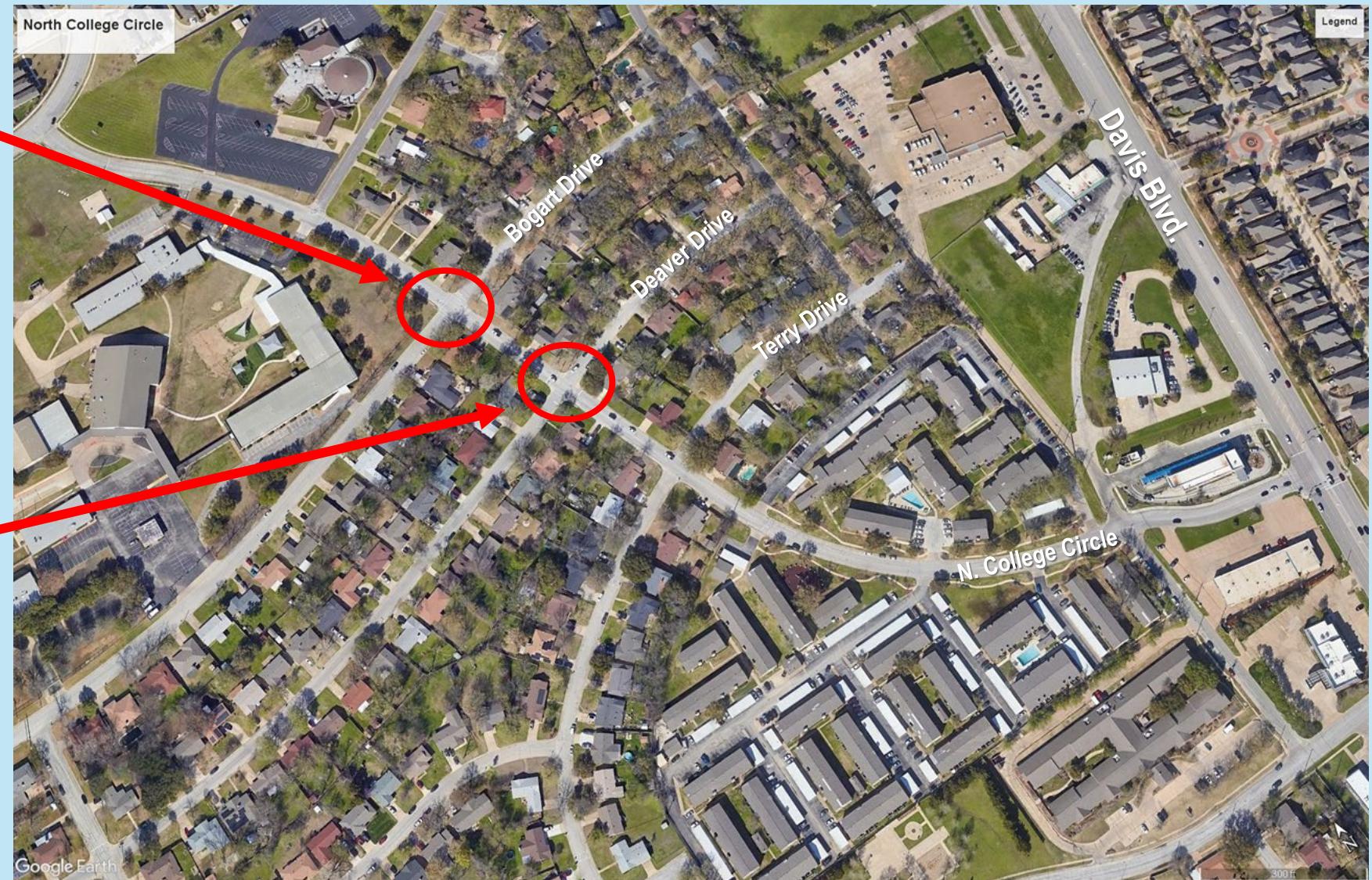
- Currently working on an in-house marking plan that incorporates consistent lane widths in parking areas.
- (2) 12' Travel Lanes
- (1) 12' Parking Lane
- Retains the on-street parking component to provide the friction that keeps travel speeds lower.



# Multi-Way Stop Controlled Intersections

## Intersections:

- College Circle Drive and Bogart Drive
- College Circle Drive and Deaver Drive
  - Installed as an unwarranted multiway stop control
  - Early 1990s
  - Ordinance No. 1847



# Multi-Way Stop Sign Warrant Study Locations

## Intersections:

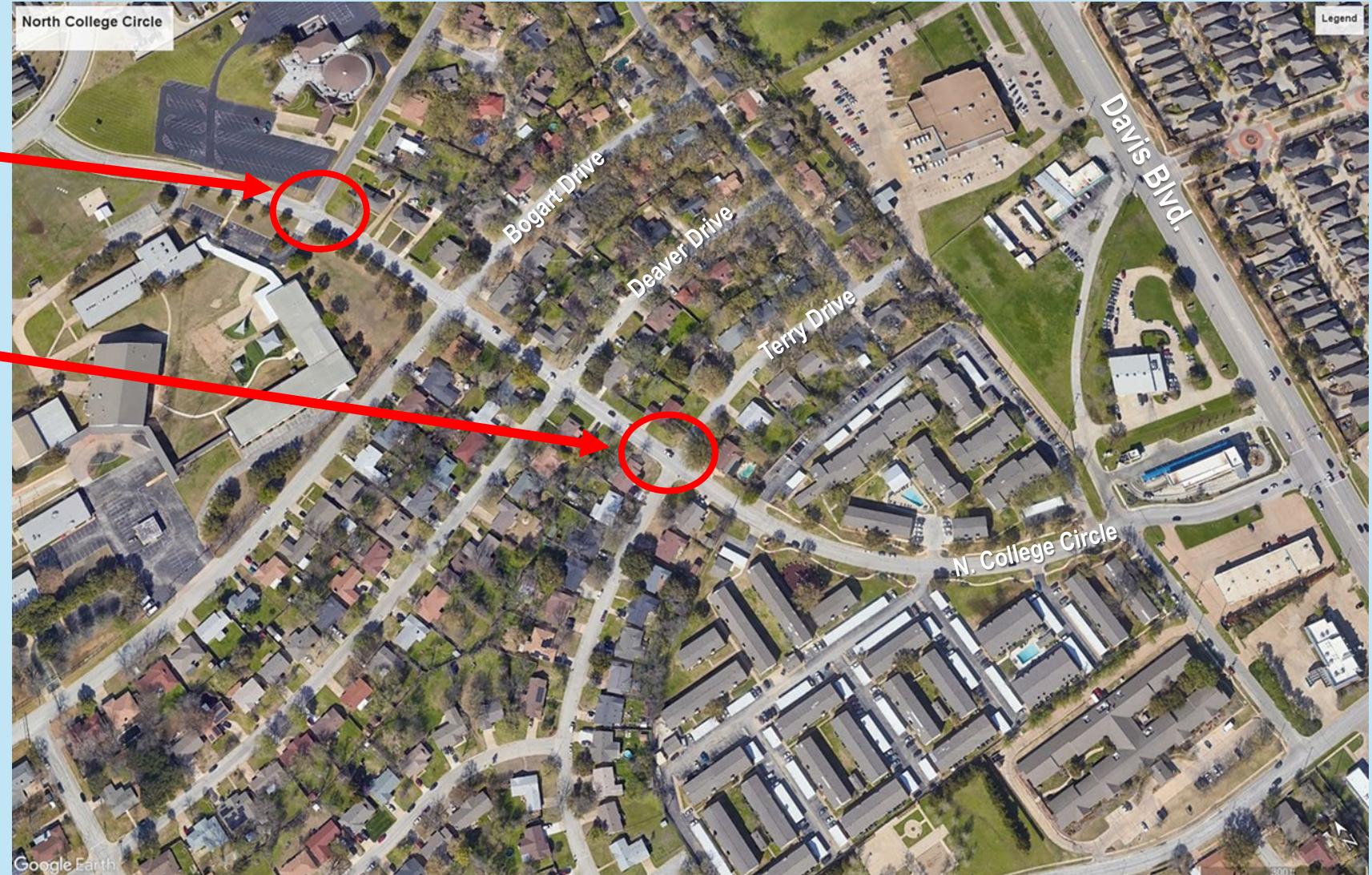
North College Circle @ Abbot Avenue

North College Circle @ Terry Drive

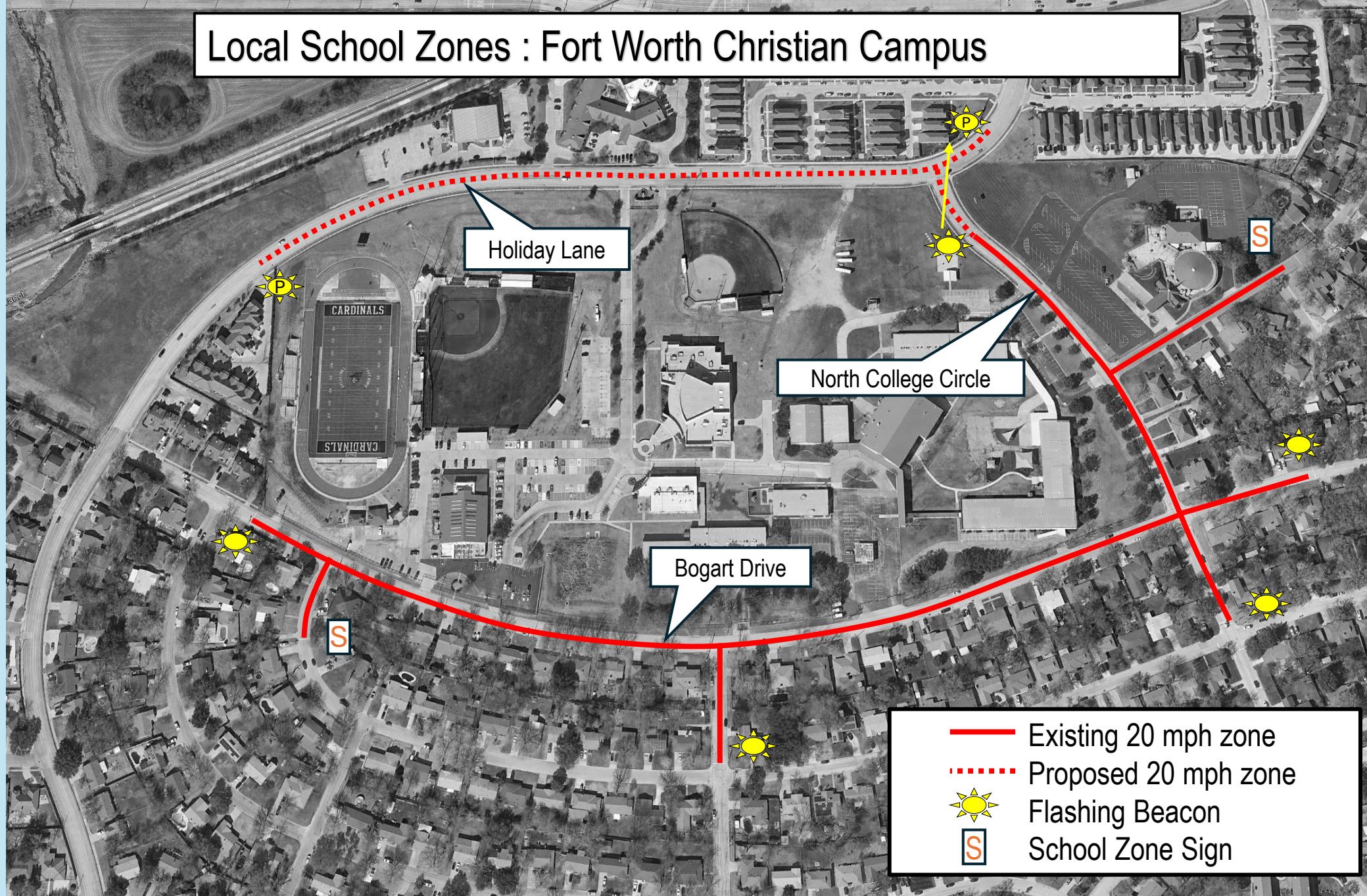
## Multi-Way Stop Warrants:

- Traffic Volume
- Accident Experience
- Interim Measure

One Pager: "Stop Sign FAQs"



# Local School Zones : Fort Worth Christian Campus



# Next Steps:

- Origination/Destination (O/D) Equipment & Study
- Complete In-House Marking Design & Plan for Construction

# In-Summary:

- History, Geometry, Types of Traffic and Role of North College Circle
- Volume and Speed Data is Consistent with Types of Traffic on a Minor Collector
- 3 ½ Years of Accident Experience
- On-Road Parking Marking Update
- Future Expansion of the Existing School Zone along Holiday Lane

