Webb-Chapel Lombardy Corridor Study Harry Hines Blvd to Shorecrest Dr

Public Meeting Tuesday, March 4th, 2025

City of Dallas Department of Transportation and Public Works



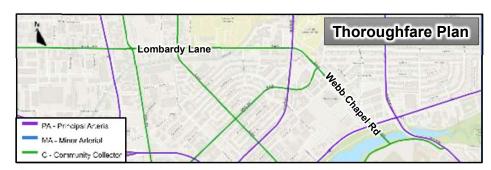
Presentation Outline

- Project Overview
- Existing Conditions
- Proposed Improvements
- Next Steps
- Appendix



Previous Plans and Studies

- Vision Zero High Injury Network (HIN): Webb Chapel is listed on the Vehicle HIN, and Lombardy is listed on both the Pedestrian and Vehicle HIN. Both Lombardy and Webb Chapel are in the top 20% of streets on the HIN Network. Lombardy ranks 22 out of 407 streets on the HIN.
- City of Dallas Thoroughfare Plan: Both Lombardy Lane & Webb Chapel Road are classified as a community collectors.
- Dallas Bike Plan Update: Not listed on the 2023 Bike Plan as a priority corridor, but connects to several priority corridors such as Denton, Brockbank, Larga, and Shorecrest Drive.
- NCTCOG Bachman Lake Area Plan: Plan describes the need for "wide and useful sidewalks" along Webb Chapel and the installation of dedicated pedestrian/bike lanes at the Webb Chapel bridge over Bachman Lake.







Study Locations & Objectives

Identify safety improvements to eliminate traffic fatalities and reduce severe injuries



Evaluate and recommend walking and biking improvements to Bachman Lake Trail

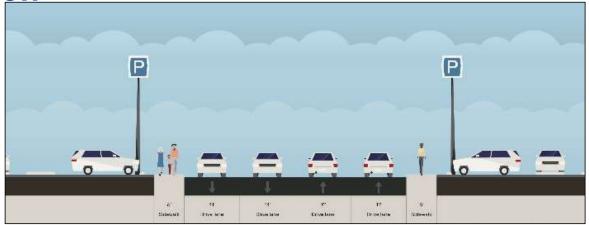




Lombardy Lane Typical Section

Existing Cross-Section

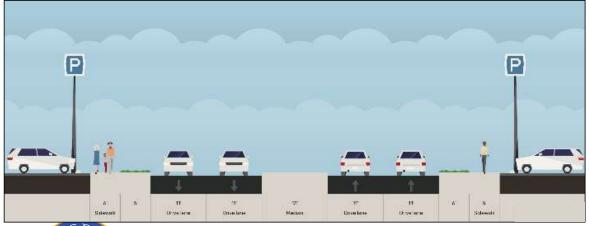
- 4-lanes undivided
- Sidewalks on either side



Webb Chapel Typical Section

Existing Cross-Section

- 4-lanes divided by raised median
- Sidewalks on either side

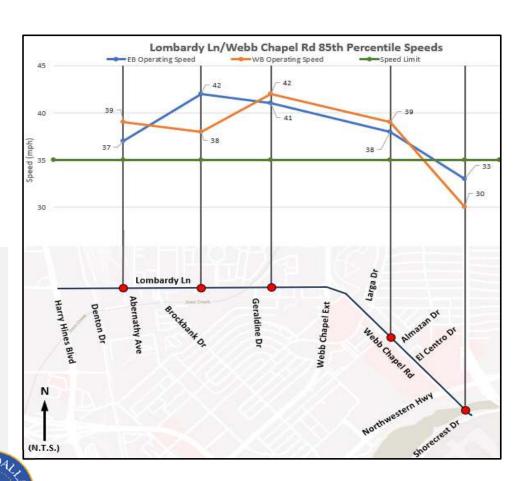




Speeds

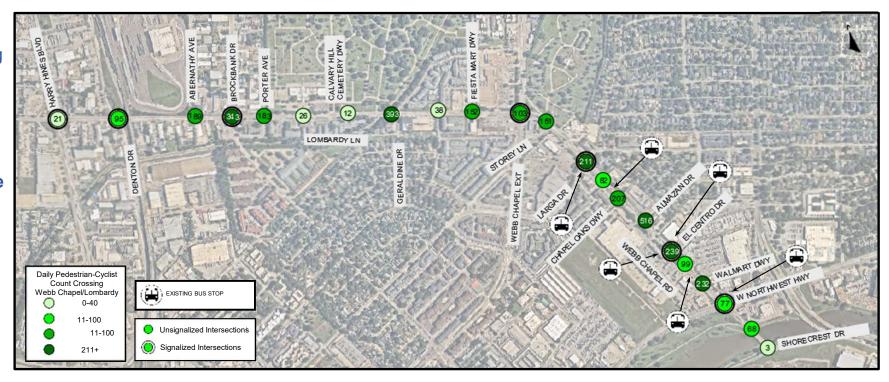
- Speed Limit: 35 mph
- Typical westbound speeds: 38-42 mph
- Typical eastbound speeds: 37-42 mph
- High operating speeds on Lombardy Lane between Brockbank Dr & Webb Chapel Ext





Pedestrian/Cyclist Crossing Volumes

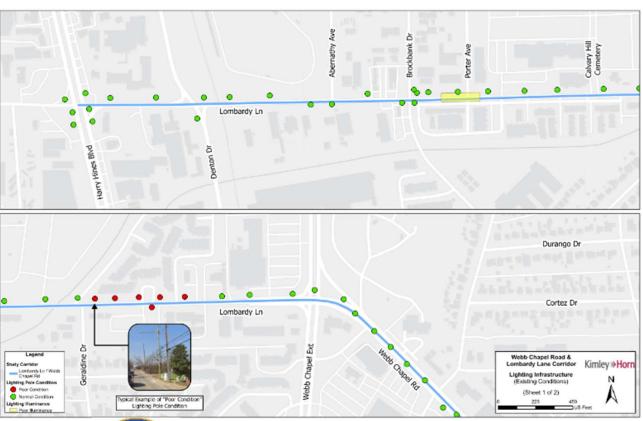
- High pedestrian
 volumes crossing
 both Lombardy
 Lane & Webb
 Chapel Road
- Several
 pedestrian
 generators in the
 area, including
 apartments and
 retail
- Bus Route 020 connects to Bachman Station



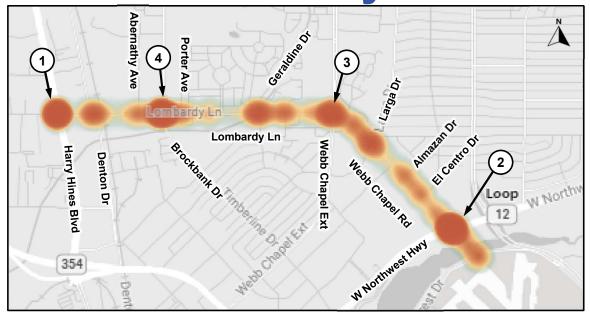


Lighting Conditions

- Majority of corridor is well lit with lighting poles in good condition
- One area between Geraldine Dr
 & Webb Chapel Ext has poor condition poles
- Short stretch of Lombardy Ln with poor illuminance
- Signals poles in good condition throughout the corridor



Crash Summary





530 Total Crashes

From Jan 2019 to Dec 2024



16 Pedestrian & Cyclist Crashes



17 Fatal or Serious Injury Crashes

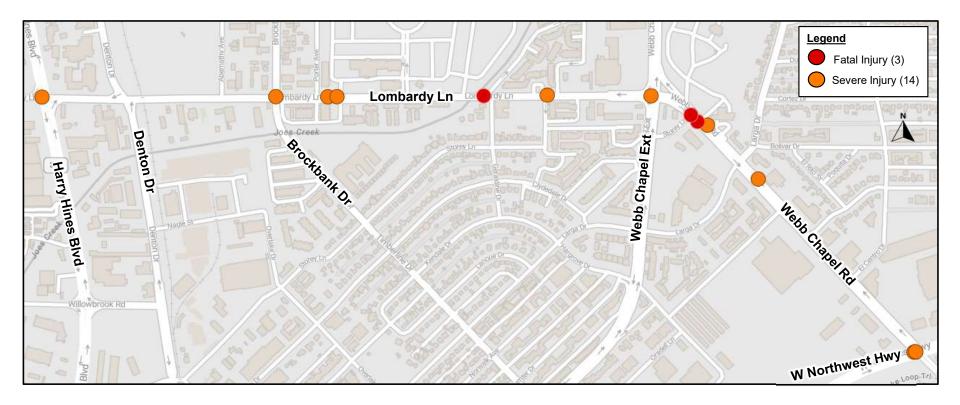
Highest Crash Intersections:

- 1
- Harry Hines Blvd & Lombardy Ln88 Crashes (1 Severe)
- (3)
- Webb Chapel Ext & Lombardy Ln
- 54 Crashes (2 Severe)

- **(2)**
 - W Northwest Highway & Webb Chapel Rd
 - 74 Crashes (4 Severe)
- 4
- Lombardy Ln & Brockbank Dr
- 36 Crashes (1 Severe)



Fatal and Serious Injury Crashes





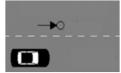
Fatal and Serious Crash Summary

Top 2 Crash Types (Full Corridor):

1. Left Turn- 41%

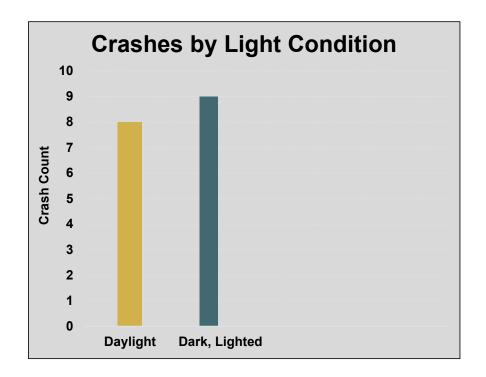


2. Single Vehicle - 41%



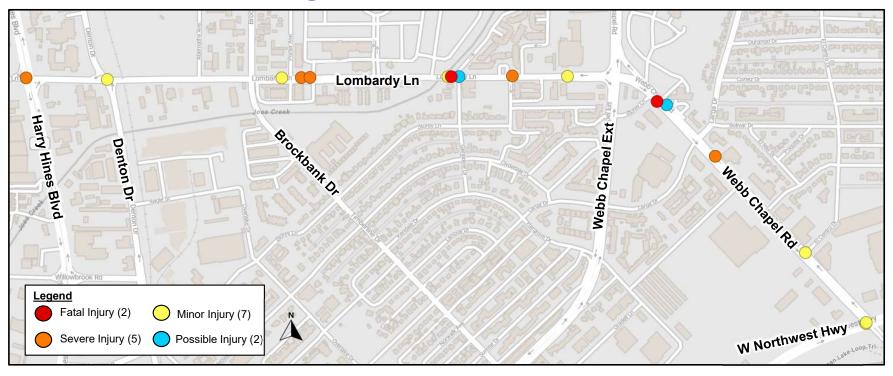
Top 3 Contributing Factors (Full Corridor):

- 1. Failed to Yield ROW Turning Left 29%
- 2. Pedestrian Failed to Yield ROW 29%
- 3. Failed to Control Speed 12%





Pedestrian/Cyclist Crashes



- 16 Pedestrian/Cyclist Crashes from Jan 2019 to Dec 2024
- One fatality near Storey Lane (2019)
- One fatality near Geraldine Drive (2024)

Summary of Existing Issues/Opportunities

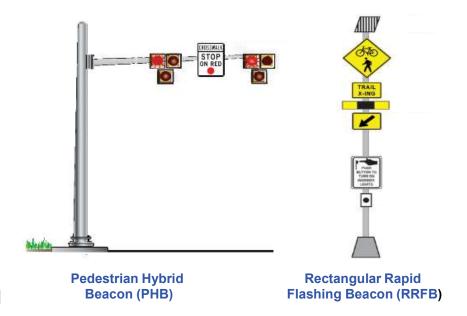
- Heavy volumes of pedestrians/cyclists crossing Lombardy & Webb Chapel throughout the corridor
- Lighting is generally adequate, but has one area of poor illuminance near Porter Ave
- Fatal and severe injury crashes occurred around unprotected crossings along the corridor
- 85th percentile speeds along the corridor are higher than the speed limit and dangerous for pedestrians
- 5. Left-turn crashes were a prominent factor along the corridor
- 6. High amount of pedestrian/cyclist crashes along the corridor





Proposed Improvements

- Improve Sidewalks and Lighting (addresses issues 1,2)
- Enhanced Pedestrian Crossings (addresses issue 3)
 - Webb Chapel & Chapel Oaks Driveway
 - Webb Chapel & Near Walmart Driveway
 - Lombardy Lane & Abernathy Avenue
 - Lombardy Lane & East of Porter Avenue
 - Lombardy Lane & West of Geraldine Drive
 - Lombardy Lane & Fiesta Mart Driveway
- New Traffic Signal
 - Webb Chapel & Shorecrest Drive (warrants in 2030 and 2045)



A PHB is a traffic control device that help pedestrians cross streets safely by stopping traffic and providing pedestrians the right of way *A RRFB is a traffic control device that help pedestrians cross streets safely by warning traffic of pedestrians in the crosswalk



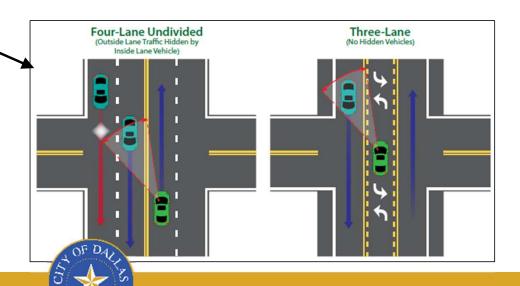
Proposed Improvements-Lane Reduction

Benefits

- Easier side-street traffic crossing for drivers and pedestrians crossing the corridor (addresses issue 6)
 - Fewer lanes to cross
- Safer left turns into and out of side streets and driveways (addresses issue 5)
- Traffic Calming tighter cross-section will reduce speeds (addresses issue 4)
- Reclamation of cross-sectional space for a Shared-Use Path (SUP)
 - Additional room for buffer spaces between pedestrians and vehicular traffic



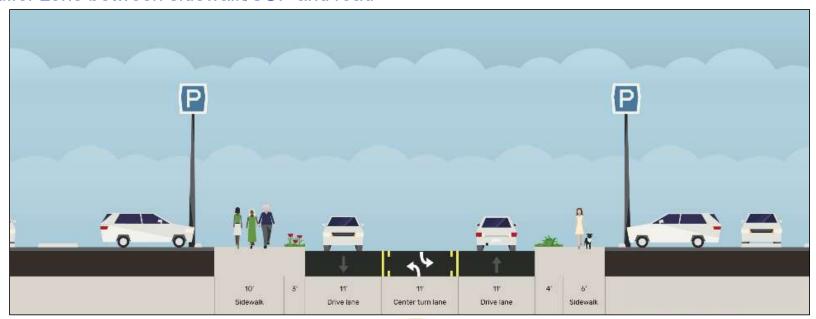




Lombardy Lane-Lane Reduction

Proposed Cross-Section

- 2-lanes with a two-way left-turn lane
- Shared-use path on the northern side
- Sidewalk on the southern side
- Buffer zone between sidewalk/SUP and road

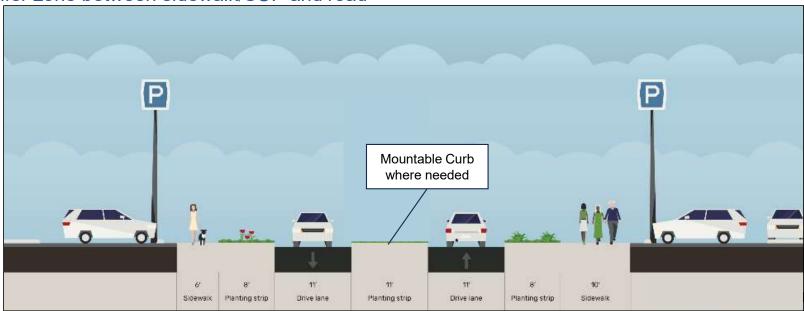




Webb Chapel Road (Webb Chapel Extension to El Centro Drive)Lane Reduction

Proposed Cross-Section

- 2-lanes with a two-way left-turn lane
- Shared-use path on the southern side
- Sidewalk on the northern side
- Buffer zone between sidewalk/SUP and road





Traffic Analysis Summary

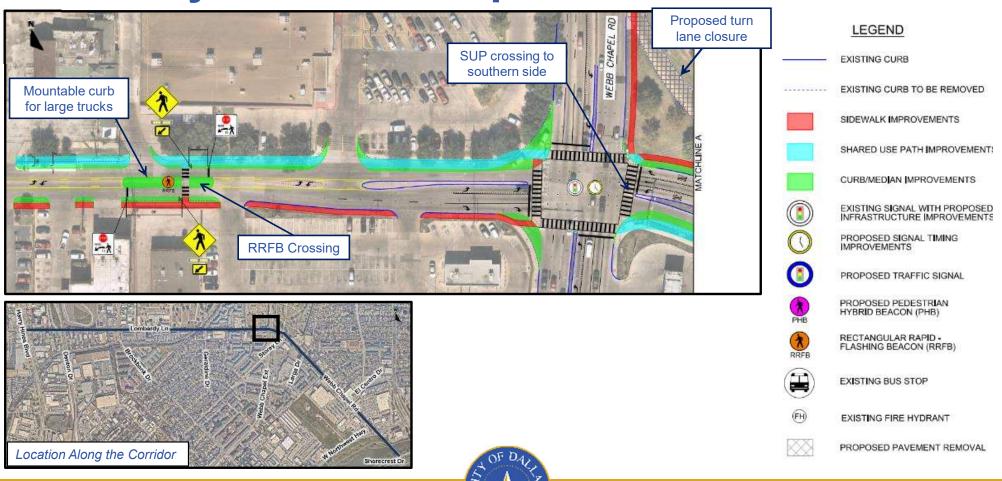
- A traffic growth rate of 0.5% was assumed projecting traffic through 2045
- Even with the proposed road diet, the entire corridor will be under capacity in 2045 during all hours of the day
- All intersections will operate at LOS D or better in 2045 during the peak hours



Harry Hines Blvd to Denton Dr



Lombardy at Webb Chapel Ext



Storey Lane at Webb Chapel Rd

LEGEND

EXISTING CURB

EXISTING CURB TO BE REMOVED

SIDEWALK IMPROVEMENTS

SHARED USE PATH IMPROVEMENT:

CURB/MEDIAN IMPROVEMENTS

EXISTING SIGNAL WITH PROPOSED INFRASTRUCTURE IMPROVEMENTS

PROPOSED SIGNAL TIMING IMPROVEMENTS

PROPOSED TRAFFIC SIGNAL

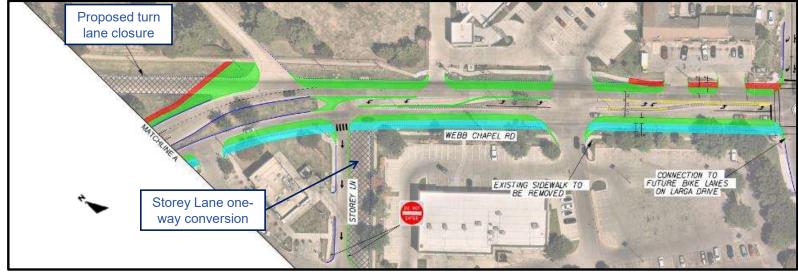
PROPOSED PEDESTRIAN HYBRID BEACON (PHB)

RECTANGULAR RAPID -FLASHING BEACON (RRFB)

EXISTING BUS STOP

EXISTING FIRE HYDRANT

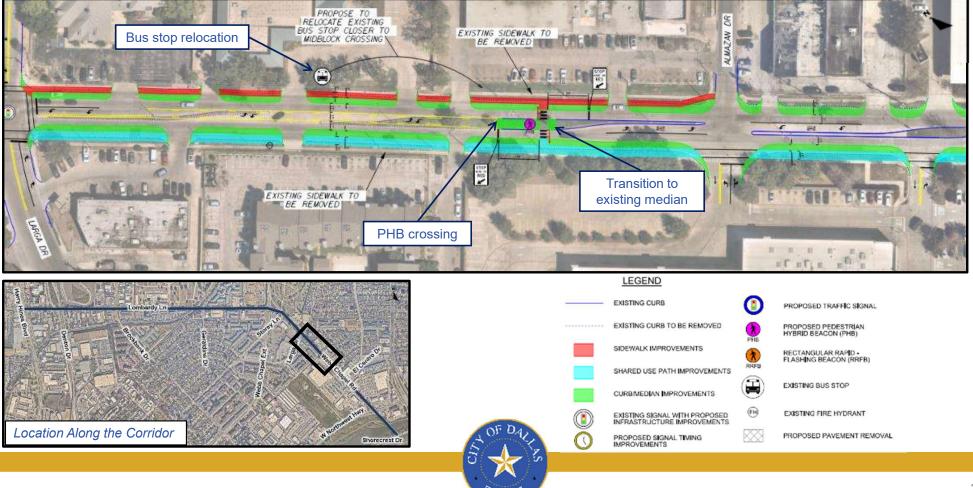
PROPOSED PAVEMENT REMOVAL



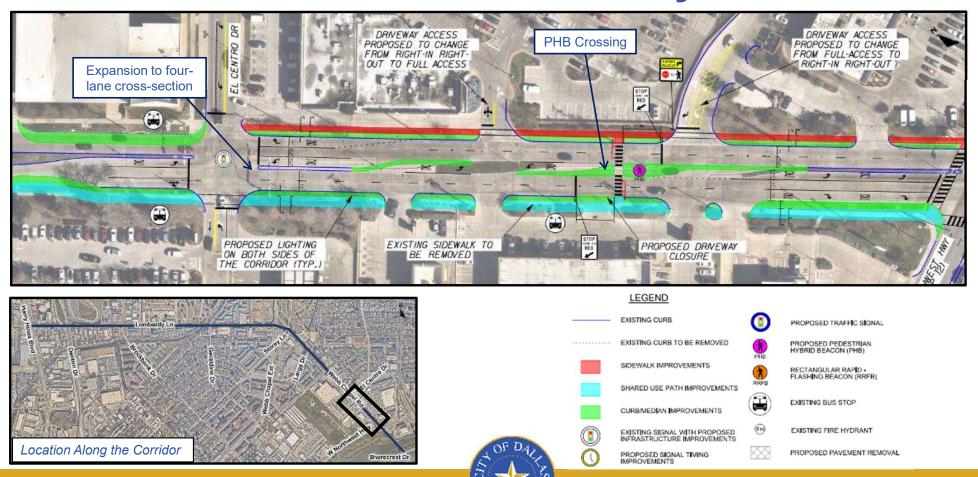




Larga Dr to El Centro Dr



El Centro Dr to W Northwest Hwy



Storey Lane at Webb Chapel Rd

LEGEND

EXISTING CURB

EXISTING CURB TO BE REMOVED

SIDEWALK IMPROVEMENTS

SHARED USE PATH IMPROVEMENT:

CURB/MEDIAN IMPROVEMENTS

EXISTING SIGNAL WITH PROPOSED INFRASTRUCTURE IMPROVEMENTS

PROPOSED SIGNAL TIMING IMPROVEMENTS

PROPOSED TRAFFIC SIGNAL

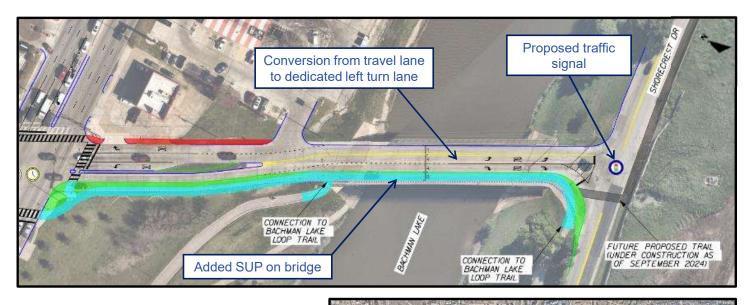
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EXISTING BUS STOP

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PROPOSED PAVEMENT REMOVAL







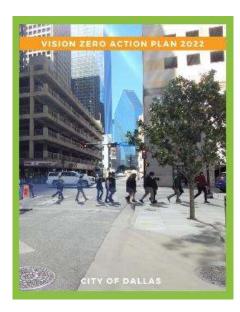
Summary of Proposed Improvements

Summary of Improvements		
Short Term-Medium Term	Long Term	
 Road diet- pavement markings from 4-lane undivided to 3-lane section 	Road diet from 4-lane undivided to 3-lane section with a shared-use path on alternating sides of	
Signal timing improvements at key intersections	Lombardy Lane & Webb Chapel Extension	
 RRFB crossings at Abernathy Avenue, east of Porter Avenue, west of Geraldine Drive, and at Fiesta Mart 	Install PHBs at Chapel Oaks Driveway and near Walmart Driveway	
Driveway.	Relocation of existing bus stop from south of Larga	
Address poor illuminance near Porter Ave	Drive to proposed PHB at Chapel Oaks Driveway	
Refresh crosswalks and lane striping	Improve traffic signal infrastructure and implement flashing yellow arrow improvements at key intersections	
	Sidewalk improvements along corridor	
	Construct new traffic signal at Shorecrest Drive	



Concluding Thoughts

- Corridor has a large amount of pedestrian traffic and few safe crossings
- Road diet enhances safety of the corridor and better accommodates pedestrians and cyclists
- Road diet leads to acceptable vehicular capacity and LOS constraints during peak hours
- Prioritization of pedestrian utility over vehicular mobility
- Improvements support City of Dallas Vision Zero Plan







Q&A and Comments

Comments will be accepted through March 23rd. Enter your comments using the QR code.



Project Webpage:

bit.ly/webbchapellombardy

Survey URL:

https://forms.office.com/g/xwkf9Aqmmk



Appendix



Levels of Service (LOS)



Level of Service A



aval of Service D



Level of Service B



Level of Service E



Level of Service C



Level of Service F

What is LOS?

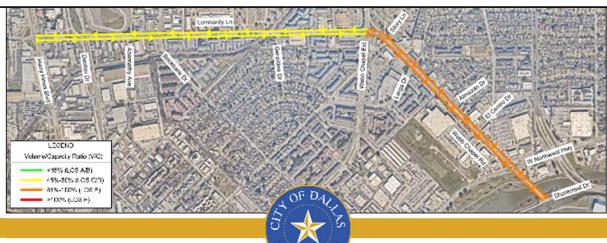
Level of Service	Signalized Intersection Average Total Delay (sec/veh)
Α	≤10
В	>10 and ≤20
С	>20 and ≤35
D	>35 and ≤55
E	>55 and ≤80
F	>80

Lombardy/Webb Chapel Roadway Capacity (2045)

AM Peak Hour

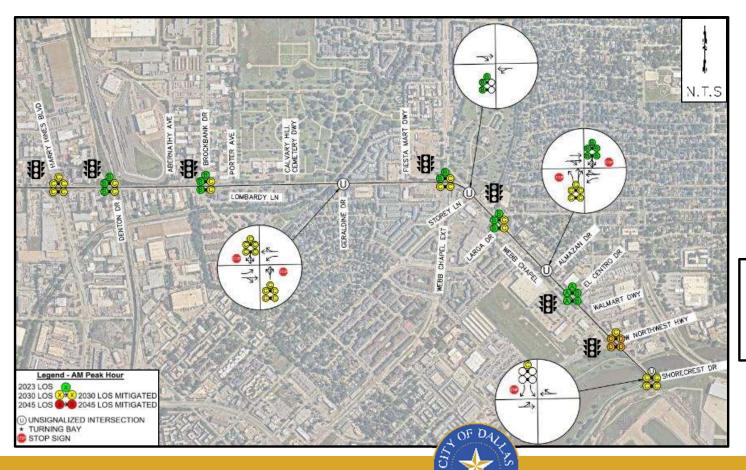


PM Peak Hour



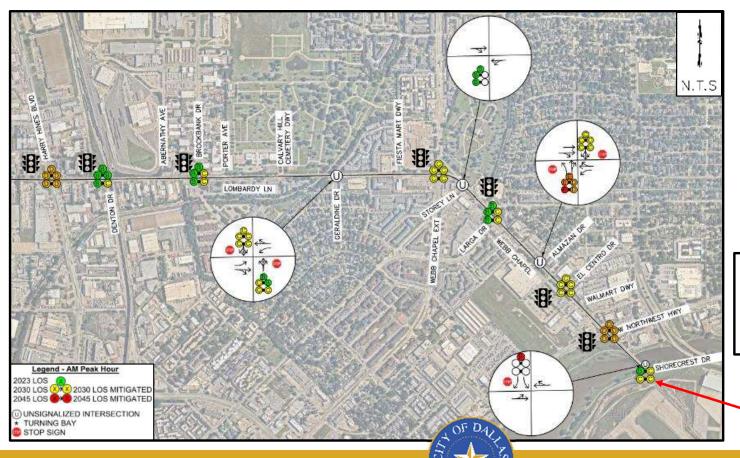
Results shown for **2045** traffic projections

AM Peak Hour Intersection LOS Evaluation



All intersections are projected to operate at LOS D or better during the AM peak hour in 2045 with the road diet and signal timing adjustments.

PM Peak Hour Intersection LOS Evaluation



All intersections are projected to operate at LOS D or better during the PM peak hour in 2045 with the road diet and signal timing adjustments.

Webb Chapel at Shorecrest Traffic Signal in progress.
Improves LOS from F to C.