

AGENDA

TRANSPORTATION BOARD

TUESDAY, MAY 5, 2020

6:35 P.M.

ZOOM MEETING WILL BE HELD. LINKS FOR THE MEETING ARE CONTAINED BELOW.

LEWISVILLE CITY HALL

151 W. CHURCH STREET

LEWISVILLE, TEXAS

Due to the closing of all city facilities, the Transportation Board meeting scheduled for Tuesday, May 5th, will only be open to public via remote access. This is pursuant to Governor Greg Abbott's temporary suspension of various provisions of the Texas Open Meetings Act to allow for telephonic or videoconference meetings of governmental bodies that are accessible to the public in an effort to reduce in-person meetings that assemble large groups of people.

Citizens/Visitors wanting to access the meeting may go to <https://cityoflewisville.zoom.us/j/96110960506> or call 888.475.4499 (Toll Free) or 877.853.5257 (Toll Free) using the following information: Webinar ID: 961 1096 0506. Listeners must sign-in to the event in order to comment. Please use the "raise hand" function to participate in any public hearing process while using the zoom application. If you have called in to the meeting, press *9 to raise your hand and speak. If you have a technical issue connecting to this meeting, or during the meeting, call 702.523.8364 or e-mail vmedisetty@cityoflewisville.com.

Comments will be accepted via e-mail until 5 p.m. prior to the meeting. To submit a comment, please e-mail vmedisetty@cityoflewisville.com with the agenda date and agenda number in the subject line of the e-mail. Please include your name and physical address for the record.

- 1. Call to Order and Announce a Quorum is Present.**
- 2. Approval of the Minutes of the October 1, 2019 Meeting.**
- 3. Visitors/Citizens Forum** - At this time, any person with business before the Board not scheduled on the Agenda may speak to the Board. No formal action can be taken on these items at this meeting.
- 4. Consideration of an Amendment to Section 15-126, Stopping, Standing and Parking Prohibited on Specific Streets, of the Lewisville City Code to Restrict Left Turns for Westbound Purnell Street at the Driveway Entrance to Mill Street Elementary School and Make a Recommendation to the City Council Regarding the Amendment.**

5. **Consideration of an Amendment to Section 15-35, Maximum Speed Limits on Specific Streets, of the Lewisville City Code to Establish the Speed Limit of 70 mph on SH 121 Main Lanes from the Southern City Limits at the Lewisville-Coppell Boundary Line to the Sam Rayburn Tollway and Make a Recommendation to the City Council Regarding the Amendment.**
6. **Consideration of an Amendment to Section 15-126, Stopping, Standing, or Parking Prohibited on Specific Streets, of the Lewisville City Code for Prohibiting Parking on the North Side of Polser Road from Holy Grail Drive to 650 feet west of Holy Grail Road fronting the Polser Elementary School and Make a Recommendation to the City Council Regarding the Amendment.**
7. **Adjournment**

NOTICE OF ASSISTANCE AT THE PUBLIC MEETINGS

The Lewisville City Hall and Council Chambers are wheelchair accessible. Access to the building is available at the primary south (front) entrance facing Church Street. Special parking spaces are available at either the southeast or southwest parking lot areas. Persons with disabilities who plan to attend this meeting and who may need auxiliary aids or services such as interpreters for persons who are deaf or hearing impaired, readers, or large print, are requested to contact the Engineering Division Office at (972) 219-3490 or by FAX at (972) 219-3487 at least two (2) working days prior to the meeting so that appropriate arrangements can be made.

BRaille IS NOT AVAILABLE

**MINUTES
TRANSPORTATION BOARD**

October 01, 2019

Item No. 1 Call to Order and Announce a Quorum is Present

Chairman Mary Ellen Miksa called the Lewisville Transportation Board meeting to order at 7:05 p.m. and announced that a quorum was present with the following members in attendance:

Mary Ellen Miksa
William Meredith
Karen Locke
James Davis
Alvin Turner
Erum Ali

Members absent: John Lyng

Staff Present: Sagar Medisetty, Daphne Stubbs

Item No. 2 Minutes

A motion was made by James Davis and seconded by Karen Locke to approve the minutes of the September 03, 2019 meeting as submitted. All members present voted aye (7-0), and the motion carried.

Item No. 3 Visitors/Citizens Forum

At this time, any person with business before the Board not scheduled on the Agenda may speak to the Board. No formal action can be taken on these items at this meeting.

No speakers came forth.

Item No. 4 Consideration of an Amendment to the Ordinance for Parking Restriction on the West Side of Tahoe Drive between Marblehead Drive and Palisades Drive and Make a Recommendation to the City Council Regarding the Amendment.

Sagar Medisetty presented this item and explained the item is being revisited from the June 18, 2019 Transportation Board Meeting. Due to heavy parking of work truck and personal vehicles on the west side of Tahoe Drive there is a site issue. There are no homes fronting on Tahoe Drive, therefore staff is recommending all three blocks in this area be included in the amendment.

Discussion

Mr. James Davis ask where the residents would be able to park. Staff replied that the residents have access to their driveways and on street parking in front of their homes.

Ms. Mary Ellen Miksa added this is a good step forward.

Ms. Karen Locke asked if the curbs would be painted. Staff stated there are no plans to paint the curbs at this time.

Mr. James Davis ask if any signage would be installed. Staff stated these will be placed at each end of the street.

Item No. 5 Adjournment

A motion to adjourn was made by Alvin Turner and seconded by William Meredith. The vote was 6 ayes and 0 nay to adjourn.

The meeting adjourned at 7:13 pm.

Respectfully submitted,

David Salmon P.E.
City Engineer

THESE MINUTES APPROVED BY THE LEWISVILLE TRANSPORTATION BOARD.	
_____	_____
CHAIRMAN	DATE

AGENDA SUPPORT MATERIAL

May 05, 2020

Item No. 2 – Minutes

A copy of the minutes of the October 3, 2019 meeting is attached. If there are any questions or corrections, please contact Sagar Medisetty at 972-219-5027 or Jason Walker at 972-219-3703.

Item No. 3 – Visitors/Citizens Forum

At this time, any person with business before the Board not scheduled on the Agenda may speak to the Board. No formal action can be taken on these items at this meeting.

Item No. 4 – Consideration of an Amendment to Section 15-126, Stopping, Standing and Parking Prohibited on Specific Streets, of the Lewisville City Code to Restrict Left Turns for Westbound Purnell Street at the Driveway Entrance to Mill Street Elementary School and Make a Recommendation to the City Council Regarding the Amendment.

Action Possible Action Informational Item

Presenter: Sagar Medisetty

Background:

The construction of the new Mill Street Elementary School was completed in late 2019 and the new campus was opened to the students in mid-October. The traffic circulation pattern approved by the City and used by the School during the student pick-up and drop off hours is such that the parents enter the school driveway on Purnell Street from the eastbound direction of Purnell Street and then exit onto High School Drive. Left turns from the westbound direction of Purnell Street pose a safety concern. For this reason, it is recommended to prohibit left turns onto the School driveway from westbound Purnell Street.

Analysis:

About 625 students attend the new Mill Street Elementary School which opened its doors to students in mid-October of 2019. The traffic circulation pattern that was approved by the City during the planning stages of the new School facility and employed by the School is as follows:

- During both student drop-off times and pick-up times, parents enter the School driveway on Purnell St from the eastbound direction.
- The right turning drivers from Purnell St use both available lanes on the driveway for queuing purposes. Utilizing both lanes on-site for queueing purposes reduces the spillover

of school-related traffic onto the public streets and reduces the time it takes to clear the traffic during the pick-up and drop-off hours.

- The parent's pick-up/drop-off the kids at the School's front door.
- Subsequently, the parents drive their vehicles in a southerly direction on the driveway and exit onto High School Drive.

The traffic circulation pattern is illustrated in the location map below.



Currently, left turns at the School driveway from westbound Purnell Street are not prohibited. Left turning vehicles from westbound Purnell St pose a safety hazard at the driveway intersection as traffic is already queued up in the eastbound direction of Purnell St during the student drop-off/pick-up times. Staff received a request from the School to install a 'No Left Turn' on westbound Purnell Street at the School driveway. Staff concurs that it is a safety hazard and thus recommends the installation of a 'No Left Turn' sign on westbound Purnell Street at the driveway.

Recommendation:

Staff requests the Transportation Board recommend to the City Council amending section 15-126 of the Lewisville City Code to prohibit the left turns for westbound Purnell Street at the driveway for the Mill Street Elementary School.

Item No. 5 – Consideration of an Amendment to Section 15-35, Maximum Speed Limits on Specific Streets, of the Lewisville City Code to Establish the Speed Limit of 70 mph on SH 121 Main Lanes from the Southern City Limits at the Lewisville-Coppell Boundary Line to the Sam Rayburn Tollway and Make a Recommendation to the City Council Regarding the Amendment.

Action Possible Action Informational Item

Presenter: Sagar Medisetty

Background:

Upon the completion of ‘State Highway (SH) 121 – Segment 13’ construction project that runs through the cities of Grapevine, Coppell and Lewisville, TxDOT conducted a speed study on SH 121 main lanes. The speed study recommends keeping the speed limit on SH 121 main lanes at the existing 70 mph speed limit. The study section of SH 121 main lanes in Lewisville, stretching for a length of 0.154 miles, (813 feet) lies between the southern city limits and the Sam Rayburn Tollway. TxDOT has requested an ordinance from the City of Lewisville indicating the established speed limit on the roadway. Currently, there is no entry in the ordinance for the speed limit on this segment of SH 121 main lanes. For this reason, it is recommended to establish an ordinance with the 70 mph speed limit on SH 121 main lanes in Lewisville.

Analysis:

The Texas Department of Transportation’s (TxDOT) ‘State Highway 121 Segment 13’ project added capacity to the main lanes of State Highway (SH) 121 from FM 2499 in Grapevine to the Sam Rayburn Tollway/Business 121 Split in Lewisville. Within Lewisville, the capacity of SH 121 main lanes was increased from 4 lanes to 6 lanes. Upon completion of such road widening or road construction projects, it is standard practice for TxDOT to conduct a speed study to determine the new posted speed limit on the improved roadway. After the completion of such study, TxDOT submits the results of the study to the City with jurisdiction and requests that City to adopt an ordinance establishing the recommended speed limit on the state highway.



Figure 1: TxDOT Graphic for SH 121 Segment 13 Project which Widened SH 121 Main Lanes Through the Cities of Grapevine, Coppell and Lewisville

The TxDOT speed study results and the prevailing speed limit prior to the project are as follows:

- Proposed Speed Limit Recommended by the Traffic Study: 70 mph
- Prevailing Speed Limit Prior to the Widening Project: 70 mph

The TxDOT speed study is included as an attachment. There is no change in the speed limit upon the completion of the project. However, the Lewisville City Ordinance does not have an entry for this section of SH 121 main lanes. Thus, an ordinance needs to be established by adding an entry for the speed limit on SH 121 main lanes.

Section of SH 121 Main Lanes in Lewisville:

The subject of this agenda item is a small section of SH 121 main lanes within the city of Lewisville. The length of SH 121 main lanes within Lewisville (as can be seen in the attached location map) is 0.154 miles. This section is located within Dallas County. Proceeding northward on the roadway, the TxDOT owned SH 121 main lanes end and the NTTA owned Sam Rayburn Tollway (SRT) begins. The City of Lewisville does not enforce the speed limits on the SRT main lanes. Thus, there is no ordinance entry for the speed limit on the SRT main lanes.

Recommendation:

Staff requests the Transportation Board recommend to the City Council amending section 15-35 of the Lewisville City Code to establish the speed limit of 70 mph on SH 121 main lanes from the southern city limits at the Lewisville-Coppell boundary line to the Sam Rayburn Tollway (SRT).

Item No. 6 – Consideration of an Amendment to Section 15-126, Stopping, Standing, or Parking Prohibited on Specific Streets, of the Lewisville City Code for Prohibiting Parking on the North Side of Polser Road from Holy Grail Drive to 650 feet west of Holy Grail Road fronting the Polser Elementary School and Make a Recommendation to the City Council Regarding the Amendment.

Action

Possible Action

Informational Item

Presenter: Sagar Medisetty

Background:

The City of Carrollton is experiencing traffic flow problems on the north side of Polser Road fronting the Polser Elementary School during the school pick-up and drop-off times. Currently, parents enter from westbound Polser Road and the traffic queues up on the north side of Polser Road and backs up past the Holy Grail Drive intersection in the westbound direction. City of Carrollton wants to address the congestion problem by reversing the school-related traffic flow on Polser Road by having parents queue up heading eastward and parking on the south side of Polser Road along the school frontage. Carrollton proposes to prohibit parking on the north side of Polser Road and allow parking on the south side along the school frontage where there is more unobstructed queuing space. The northern section of Polser Road is in the DCFWSD 1-A jurisdiction. Carrollton has requested the DCFWSD 1-A and Lewisville to adopt an ordinance to prohibit parking on the north side. Lewisville and DCFWSD1-A staffs do not see any issues with the proposal and concur with Carrollton’s request.

Analysis:

Traffic flow problems are experienced on Polser Road fronting the Polser Elementary School during the student pick-up and drop-off hours at the School. The current traffic pattern is as follows:

- Parents enter heading westbound on Polser Road from Holy Grail Drive
- Parents queue up on the north side of Polser Road and back up past Holy Grail Drive blocking the intersection

To alleviate this traffic problem, the City of Carrollton proposes to reverse the school-related traffic flow and have parents come to the School from the eastbound direction of Polser Road. There is adequate queuing space on the eastbound approach to park the vehicles on the south side of Polser Road for student pick-up and drop-off. Carrollton proposed parking restriction on the north side of Polser Road from Holy Grail Drive to 650 feet west of Holy Grail Drive.

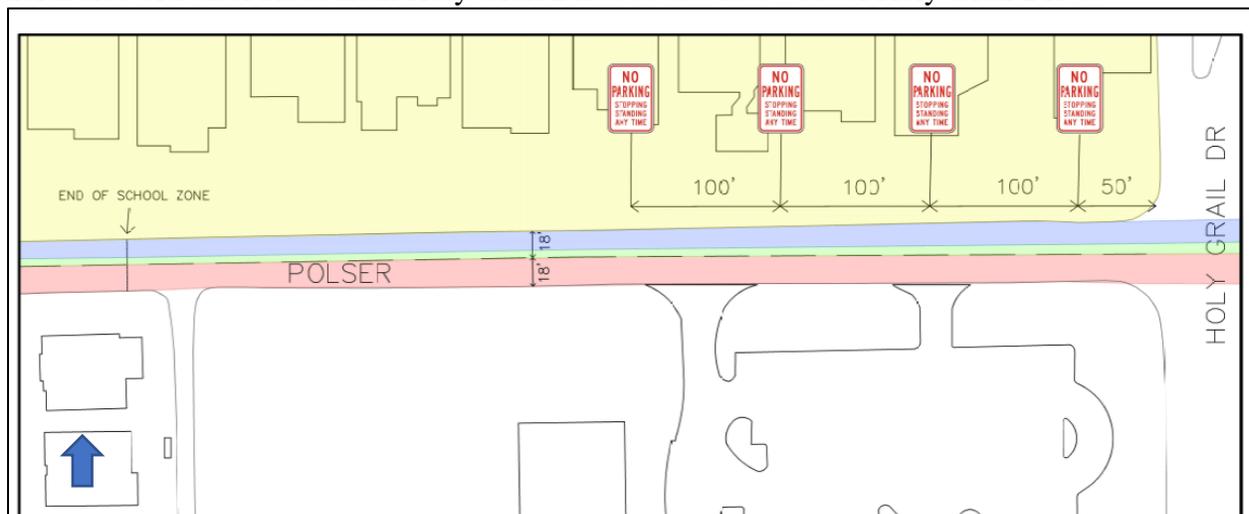


Figure: Proposed ‘No Parking’ on the north side of Polser Road by City of Carrollton

Existing Polser Road Width Does Not Allow Parking on Both Sides of Street:

The existing 36 feet width of Polser Road does not allow for unobstructed 2-way traffic flow and allow parking on both sides of the road. The current roadway has 18 feet on each side of the center line. With two (2) 12-foot travel lanes, there is only 6-foot left on either side of the roadway. The minimum width needed for a parking lane is 8 feet. Thus, there is a need for parking restrictions on one side of the roadway. Currently, parking occurs on the north side of the street which causes traffic backup issues on Polser Road and traffic spillover issues onto the intersection at Holy Grail Drive and also back up on Holy Grail Drive to the houses in Castle Hills. The houses on the north side of Polser Road are separated from the roadway by a screening wall. This traffic backup on westbound Polser Road occurs due to the lack of queueing space on westbound Polser Road. However, there is enough queueing space on eastbound Polser Road and the parking frontage would be on the School side instead of the houses. The City of Carrollton proposes to shift the centerline striping of Polser Road as follows (illustrated in the figure below):

- 13-foot travel lane on westbound Polser Rd
- 13-foot travel lane on eastbound Polser Rd
- 10-foot wide parking lane on the south side of Polser Rd in the eastbound direction

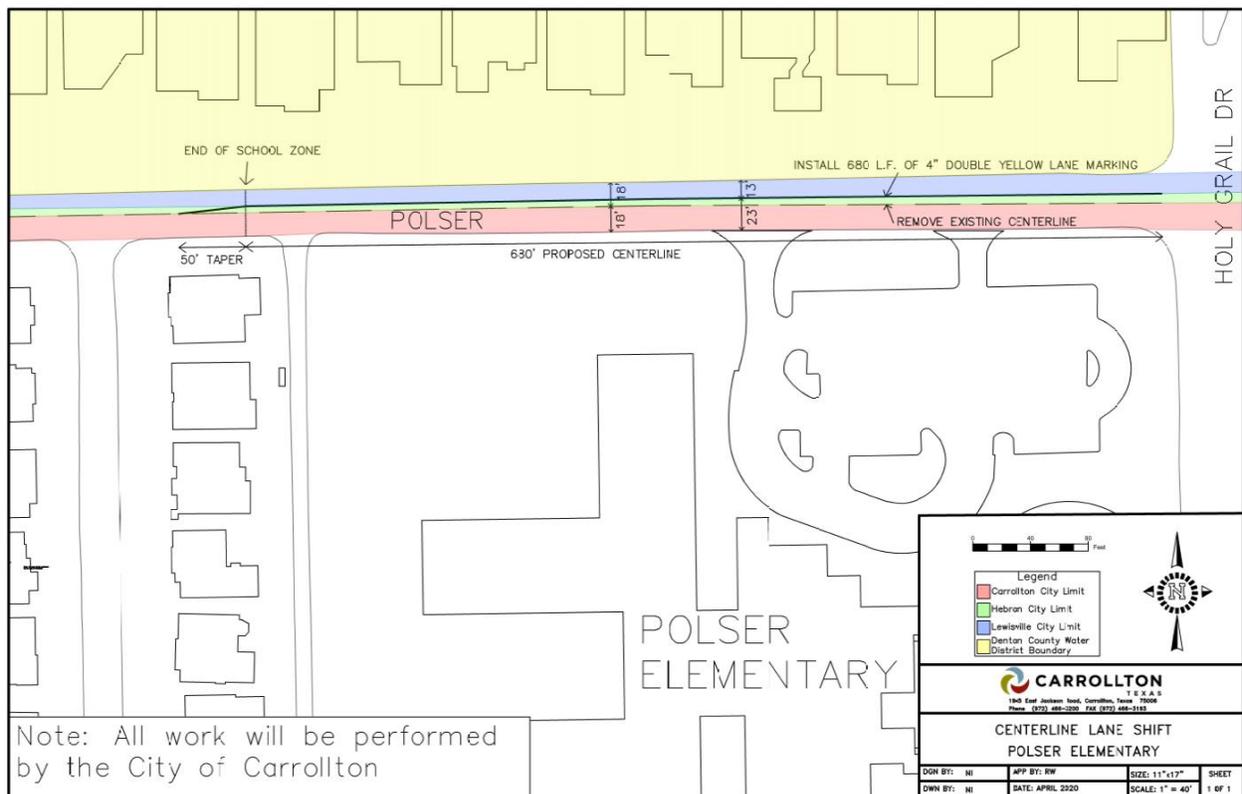


Figure: Centerline shift on Polser Road proposed by City of Carrollton

The Denton County Fresh Water Supply District 1A (DCFWSO 1-A) concurred with the City of Carrollton's request. DCFWSO 1-A submitted their concurrence via email written correspondence. Lewisville staff also concurs with the proposal.

'No Standing No Stopping No Parking' signage and pavement markings will be installed by the City of Carrollton. Lewisville Police Department will enforce the parking restriction on the north side of Polser Road.

Recommendation:

Staff requests the Transportation Board recommend to the City Council amending section 15-126 of the Lewisville City Code to prohibit the parking on the north side of Polser Road from Holy Grail Drive to 650 feet west of Holy Grail Drive.

Item No. 7 – Adjournment

LOCATION MAP FOR NO LEFT TURN ON WESTBOUND PURNELL ST.

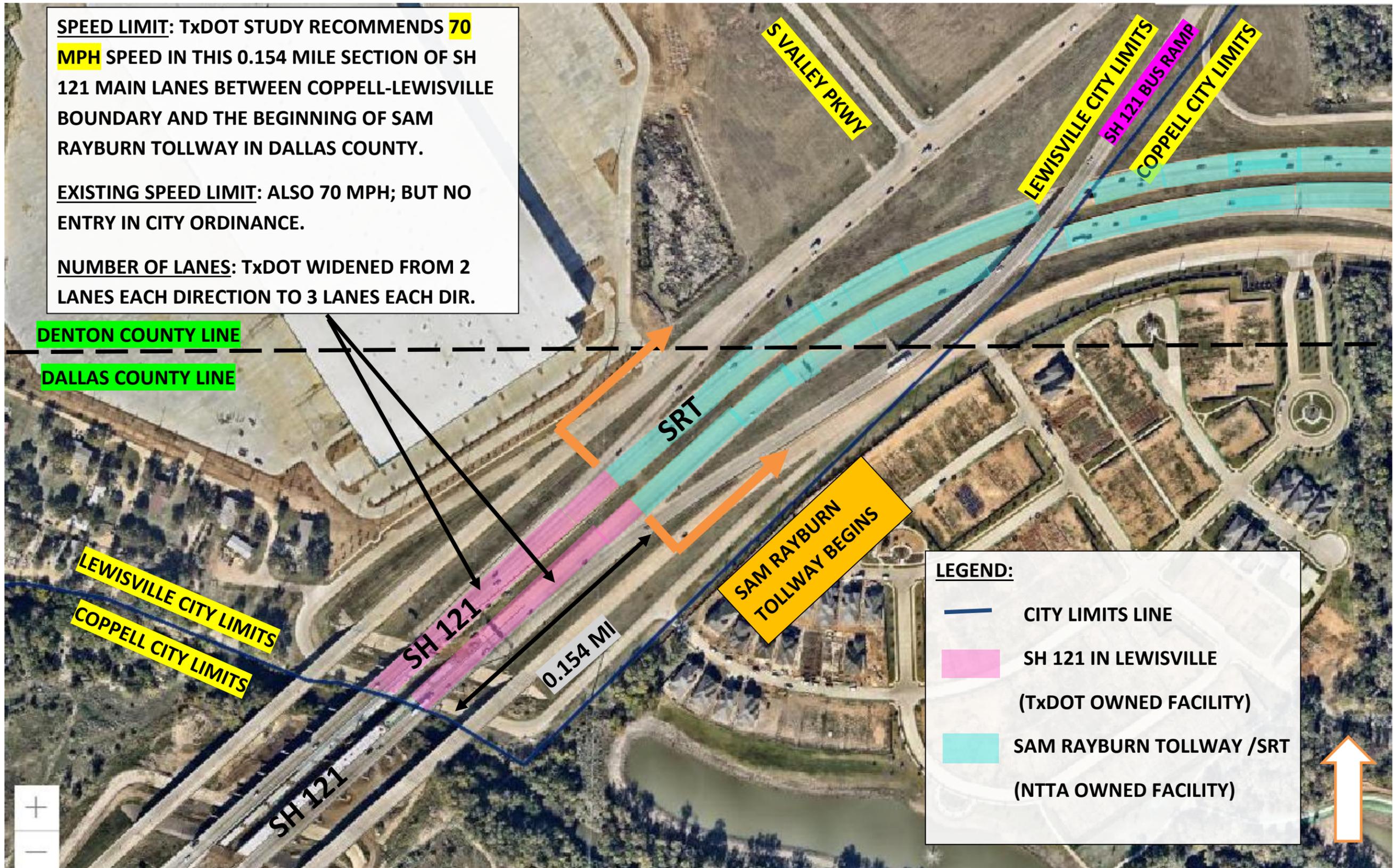


LOCATION MAP FOR SPEED ZONE ON SH 121 MAIN LANES

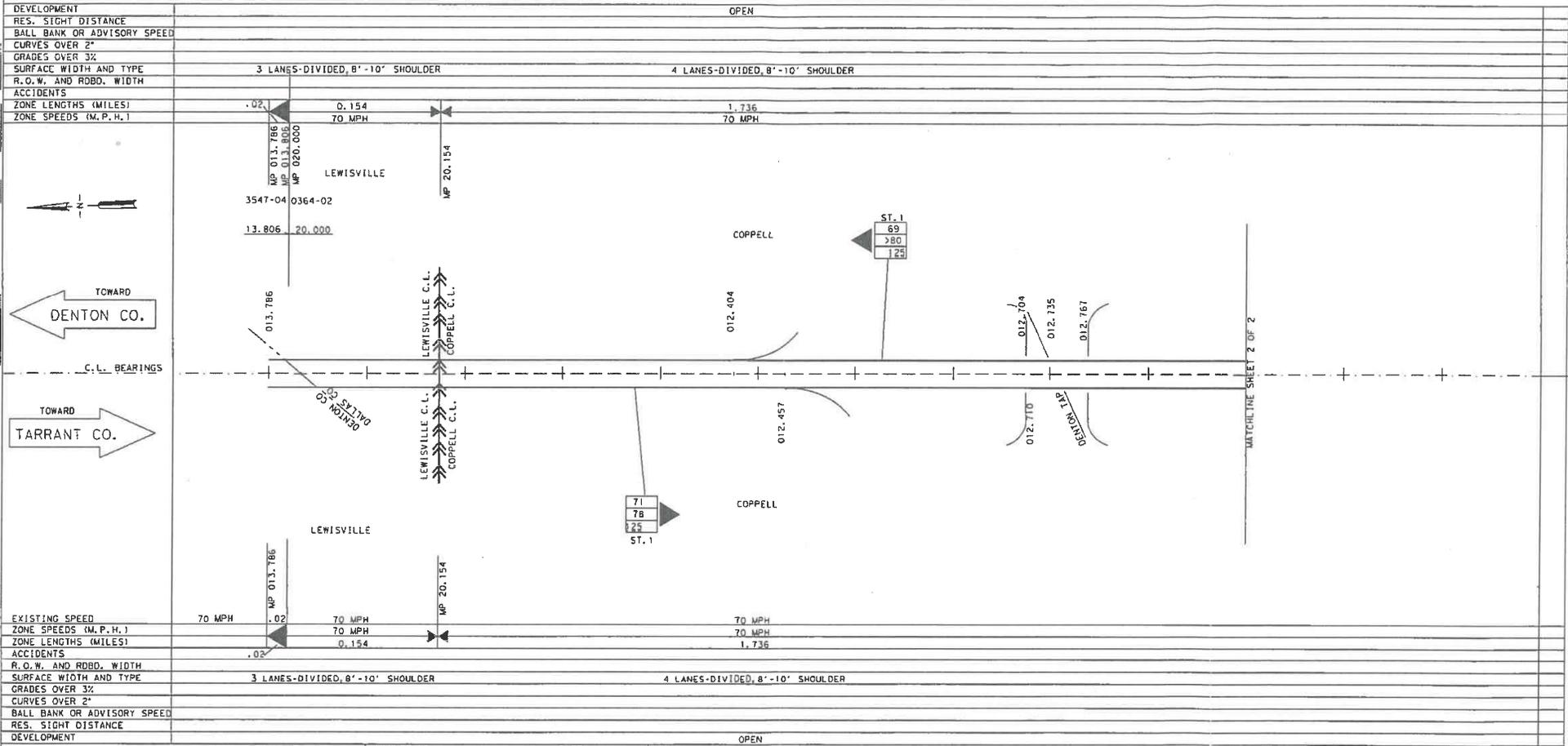
SPEED LIMIT: TxDOT STUDY RECOMMENDS **70 MPH** SPEED IN THIS 0.154 MILE SECTION OF SH 121 MAIN LANES BETWEEN COPPELL-LEWISVILLE BOUNDARY AND THE BEGINNING OF SAM RAYBURN TOLLWAY IN DALLAS COUNTY.

EXISTING SPEED LIMIT: ALSO 70 MPH; BUT NO ENTRY IN CITY ORDINANCE.

NUMBER OF LANES: TxDOT WIDENED FROM 2 LANES EACH DIRECTION TO 3 LANES EACH DIR.



SH 121



DEVELOPMENT		OPEN	
RES. SIGHT DISTANCE		OPEN	
BALL BANK OR ADVISORY SPEED			
CURVES OVER 2"			
GRADES OVER 3%			
SURFACE WIDTH AND TYPE		3 LANES-DIVIDED, 8'-10' SHOULDER	4 LANES-DIVIDED, 8'-10' SHOULDER
R.O.W. AND R.O.B.D. WIDTH			
ACCIDENTS			
ZONE LENGTHS (MILES)		.02	1.736
ZONE SPEEDS (M.P.H.)		70 MPH	70 MPH
DEVELOPMENT		OPEN	
RES. SIGHT DISTANCE		OPEN	
BALL BANK OR ADVISORY SPEED			
CURVES OVER 2"			
GRADES OVER 3%			
SURFACE WIDTH AND TYPE		3 LANES-DIVIDED, 8'-10' SHOULDER	4 LANES-DIVIDED, 8'-10' SHOULDER
R.O.W. AND R.O.B.D. WIDTH			
ACCIDENTS			
ZONE LENGTHS (MILES)		.02	0.154
ZONE SPEEDS (M.P.H.)		70 MPH	70 MPH

DISTRICT: DALLAS		COUNTY: DALLAS		MINUTE NO. :	DATE
HIGHWAY: SH 121 CITY: LEWISVILLE/COPPELL/GRAPEVINE		REPLACES :		DATE	
DATE OF STUDY 09-24-19		SCALE 1" = 0.1 MILES		CANCELLED BY :	DATE
LIMITS OF ZONE					
SECTION ONE			SECTION TWO		
STA. OR M.P.	CONT. AND SECT.	PROJECT	STA. OR M.P.	CONT. AND SECT.	PROJECT
BEGINS	0 + 00	()	BEGINS	-	()
ENDS	0 + 00	()	ENDS	-	()

- 42 85 PERCENTILE SPEED
- 62 TOP SPEED MEASURED
- 125 NUMBER OF CARS CHECKED
- FATAL ACCIDENT
- ⊙ PERSONAL INJURY ACCIDENT
- PROPERTY DAMAGE ACCIDENT
- INDICATES SECTION ZONED BY COMMISSION MINUTE
- ▲ SIGNALIZED INTERSECTION
- TRIAL RUN

SPEED ZONE

CONT. 3547 SEC. 04
CONT. 0364 SEC. 02

LIMIT: FROM DENTON CO. LINE
TO THE TARRANT CO. LINE

SHEET 1 OF 2

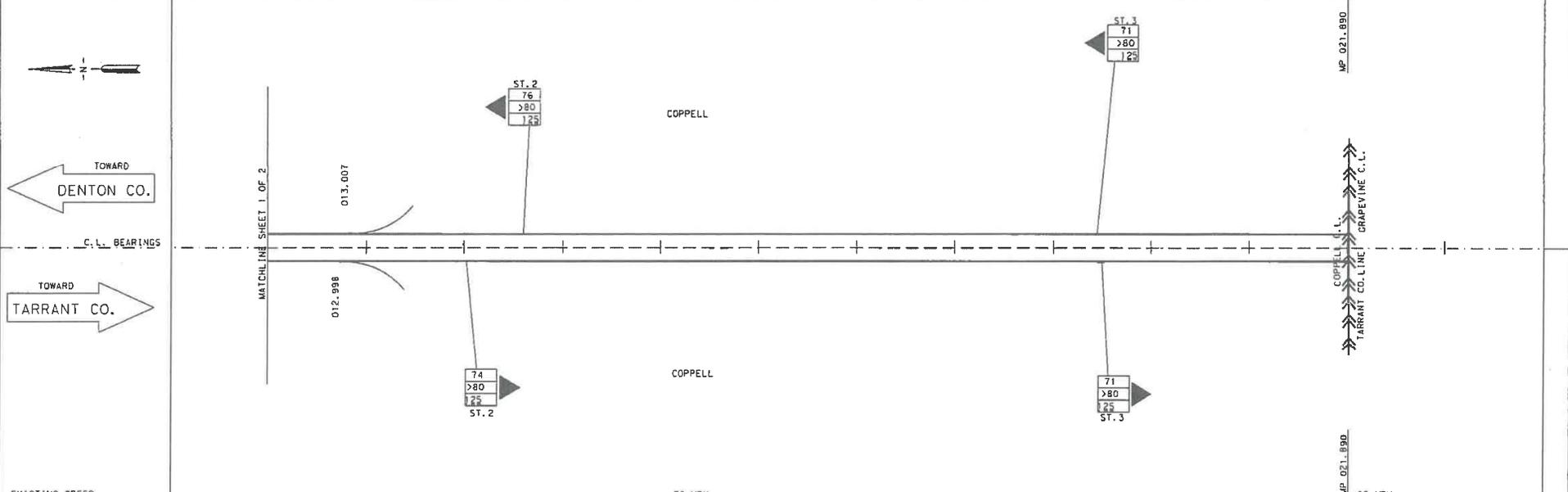
Texas Department of Transportation

**SPEED STUDY
DALLAS COUNTY
SH 121**

SECTION TEAM	FILE NO.	FEDERAL AID PROJECT NO.	SHEET NO.
	STATE	STATE	COUNTY
CHECKED	CONTROL	SECTION	JOB
	NO.	NO.	NO.

SH 121

DEVELOPMENT	OPEN
RES. SIGHT DISTANCE	
BALL BANK OR ADVISORY SPEED	
CURVES OVER 2"	
GRADES OVER 3%	
SURFACE WIDTH AND TYPE	4 LANES-DIVIDED, 8'-10" SHOULDER
R.O.W. AND RDBD. WIDTH	
ACCIDENTS	
ZONE LENGTHS (MILES)	1.736
ZONE SPEEDS (M.P.H.)	70 MPH



EXISTING SPEED	70 MPH
ZONE SPEEDS (M.P.H.)	70 MPH
ZONE LENGTHS (MILES)	1.736
ACCIDENTS	
R.O.W. AND RDBD. WIDTH	
SURFACE WIDTH AND TYPE	4 LANES-DIVIDED, 8'-10" SHOULDER
GRADES OVER 3%	
CURVES OVER 2"	
BALL BANK OR ADVISORY SPEED	
RES. SIGHT DISTANCE	
DEVELOPMENT	OPEN

DISTRICT: DALLAS	COUNTY: DALLAS	MINUTE NO.:	DATE: / /
HIGHWAY: SH 121	CITY: LEWISVILLE/COPPELL/GRAPEVINE	REPLACES:	DATE: / /
DATE OF STUDY: 09-24-19	SCALE: 1" = 0.1 MILES	REPLACED BY:	DATE: / /
		CANCELLED BY:	DATE: / /

LIMITS OF ZONE			
SECTION ONE		SECTION TWO	
STA. OR U.P.	LENGTH MILES	STA. OR U.P.	LENGTH MILES
BEGINS	0+00	BEGINS	
ENDS	0+00	ENDS	

- 85 PERCENTILE SPEED
- TOP SPEED MEASURED
- NUMBER OF CARS CHECKED
- FATAL ACCIDENT
- PERSONAL INJURY ACCIDENT
- PROPERTY DAMAGE ACCIDENT
- INDICATES SECTION ZONED BY COMMISSION MINUTE
- SIGNALIZED INTERSECTION
- TRIAL RUN

SPEED ZONE

CONT. 3547 SEC. 04
CONT. 0364 SEC. 02

LIMIT: FROM DENTON CO. LINE
TO THE TARRANT CO. LINE

SHEET 2 OF 2

Texas Department of Transportation

SPEED STUDY
DALLAS COUNTY
SH 121

DESIGN TEAM	STATE	FEDERAL AID PROJECT NO.	SHEET NO.
CHECKED	SECTION NO.	DATE	BY

END OF SCHOOL ZONE



POLSER

18' 18'



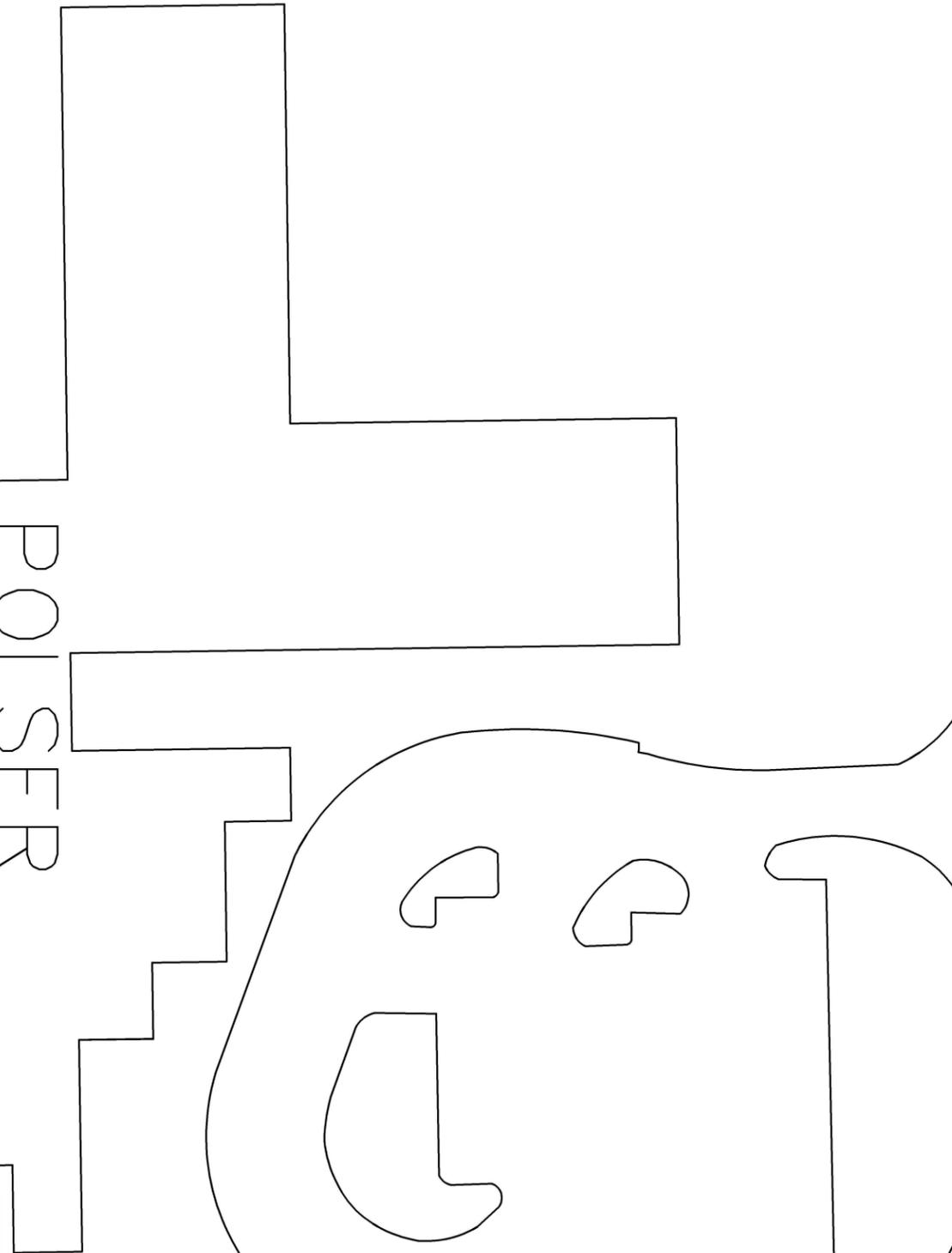
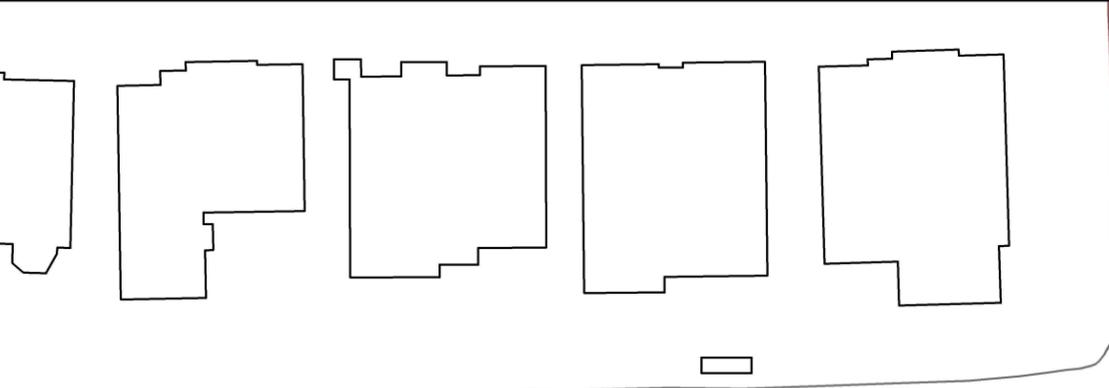
100'

100'

100'

50'

HOLY GRAIL DR



Note: All work will be performed by the City of Carrollton

POLSER ELEMENTARY

0 40 80 Feet

Legend

- Carrollton City Limit
- Hebron City Limit
- Lewisville City Limit
- Denton County Water District Boundary

CARROLLTON TEXAS
1945 East Jackson Road, Carrollton, Texas 75006
Phone (972) 466-3200 FAX (972) 466-3193

NO PARKING SIGNS
POLSER ELEMENTARY

DGN BY: NI	APP BY: RW	SIZE: 11"x17"	SHEET
DWN BY: NI	DATE: APRIL 2020	SCALE: 1" = 40'	1 OF 1

LOCATION MAP – AERIAL VIEW OF POLSER ELEMENTARY SCHOOL

