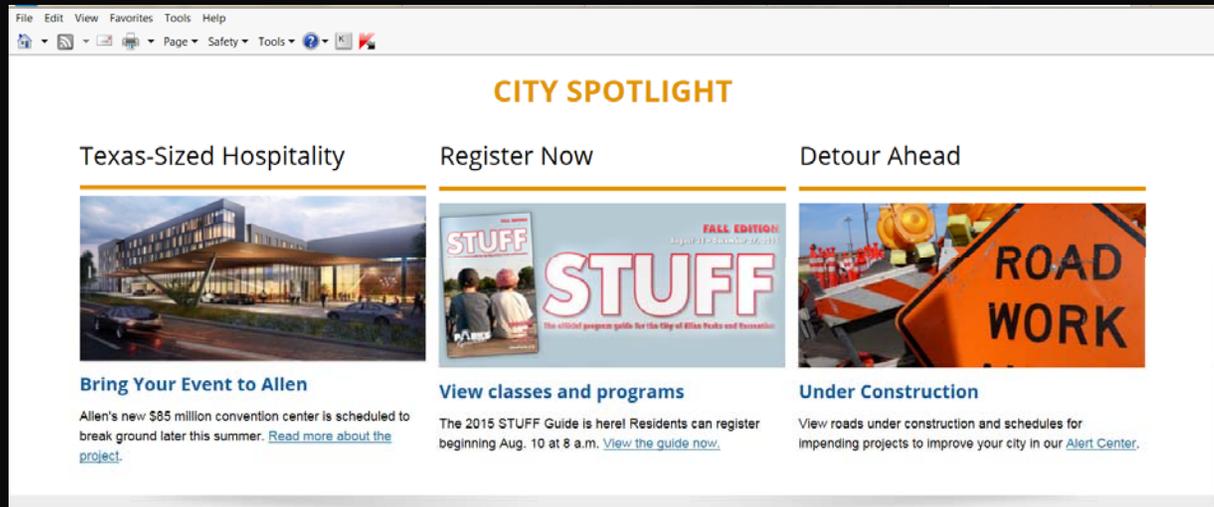


# ALMA DRIVE HEDGCOXE – SH 121



**ALMA DRIVE IMPROVEMENT PROJECT**



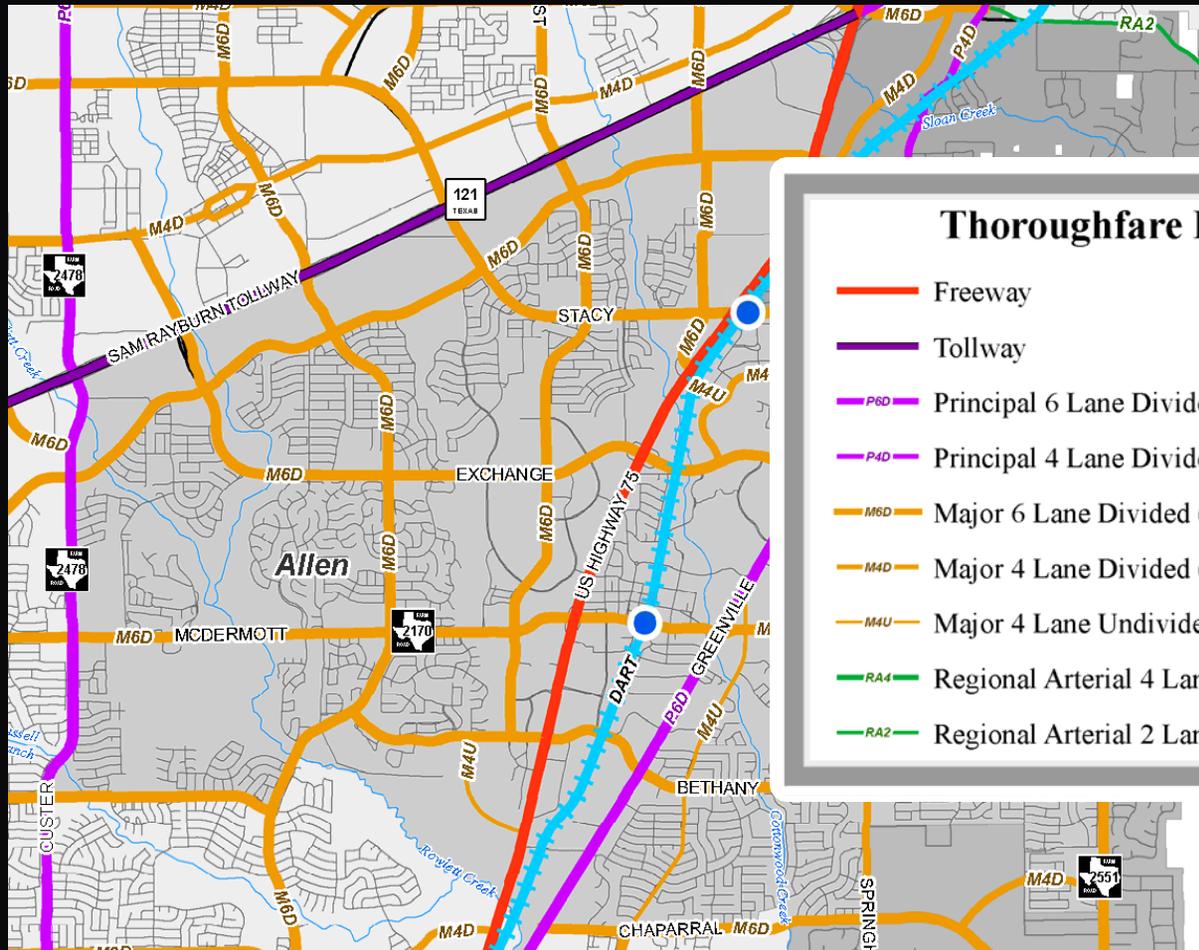


- ❖ COA Webpage & Engineering Dept. Webpage
- ❖ Public Meetings/City Council
- Push out info to via website and social media
- Alert Center through "Notify Me" link on webpage



**INFORMATION DISTRIBUTION**



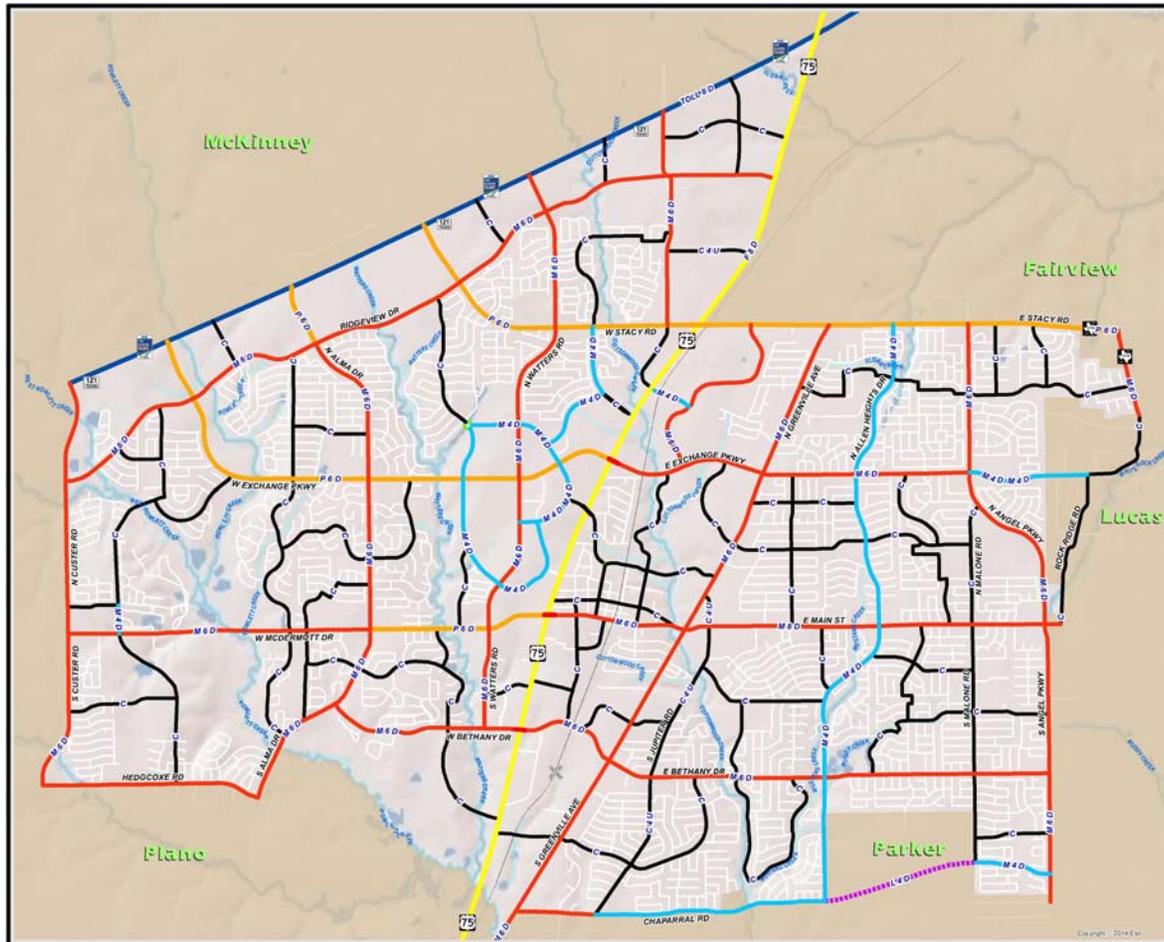


### Thoroughfare Plan

- Freeway
- Tollway
- P6D Principal 6 Lane Divided (120' ROW)
- P4D Principal 4 Lane Divided (100' ROW)
- M6D Major 6 Lane Divided (120' ROW)
- M4D Major 4 Lane Divided (100' ROW)
- M4U Major 4 Lane Undivided (70' ROW)
- RA4 Regional Arterial 4 Lane (110' ROW)
- RA2 Regional Arterial 2 Lane (90' ROW)

# COLLIN COUNTY THOROUGHFARE PLAN





**CITY OF ALLEN**  
**THOROUGHFARE PLAN**  
**(Proposed)**

**Map Legend**

- Functional Classification**
- (C) - Collector (Residential & Commercial)
  - (F) - Freeway\*
  - (L) - Future/Proposed Local Connection
  - (M) - Minor Arterial (6-Lane)
  - (P) - Principal Arterial
  - (RA) - Roundabout Connection
  - (TOLL) - Tollway
  - (M) - Minor Arterial 4-Lane
  - City Limit
  - Railroad

**Degree of Access and Number of Lanes**

4	Four Lanes
6	Six Lanes
8	Eight Lanes
D	Divided Access
U	Undivided Access
A	Limited Access

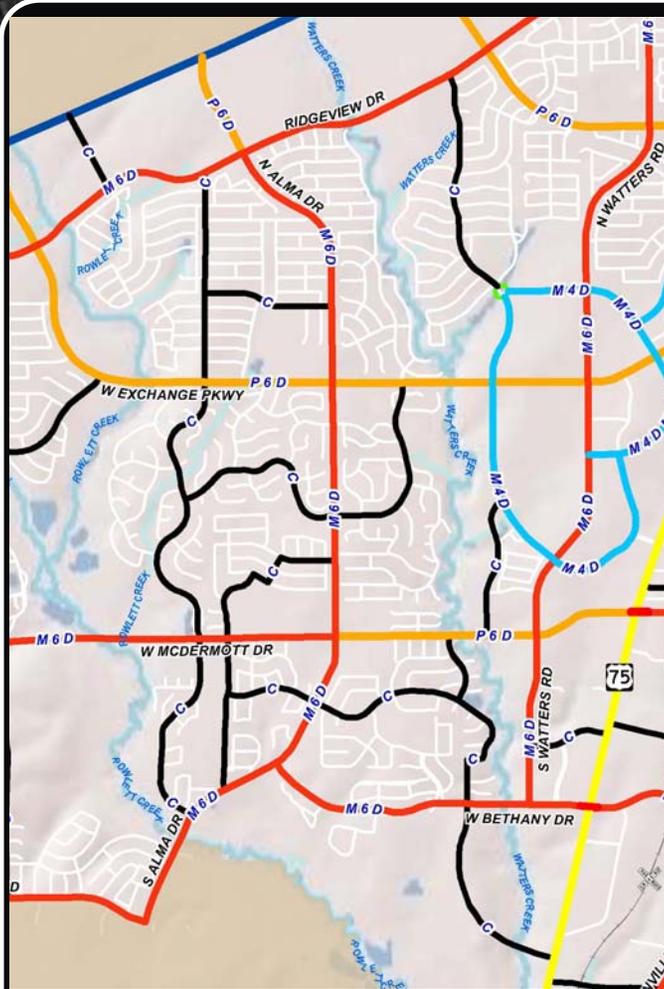


\*The dedication of up to 30 ft. of ROW along the US 75 freeway corridor may be required to accommodate local mobility improvements in the form of an additional frontage road lanes and/or acceleration and deceleration lanes in the future.

The Master Thoroughfare Plan provides generalized locations for future thoroughfares. Alignments may shift as roads are engineered and designed to accommodate natural features and meet sound engineering and urban planning principles. The roadway lines shown on the plan are not intended to represent the precise locations of future thoroughfares.

**CITY OF ALLEN THOROUGHFARE PLAN**





- ❖ Earliest thoroughfare planning dates back to before 1977
- ❖ Arterial roadways are generally spaced on a deliberate grid 1-mile apart
- ❖ Additional lanes add capacity, provide smoother flow, and can create larger gaps for intersecting traffic

## CITY OF ALLEN THOROUGHFARE PLAN



## The widening will stay ahead of traffic growth trends

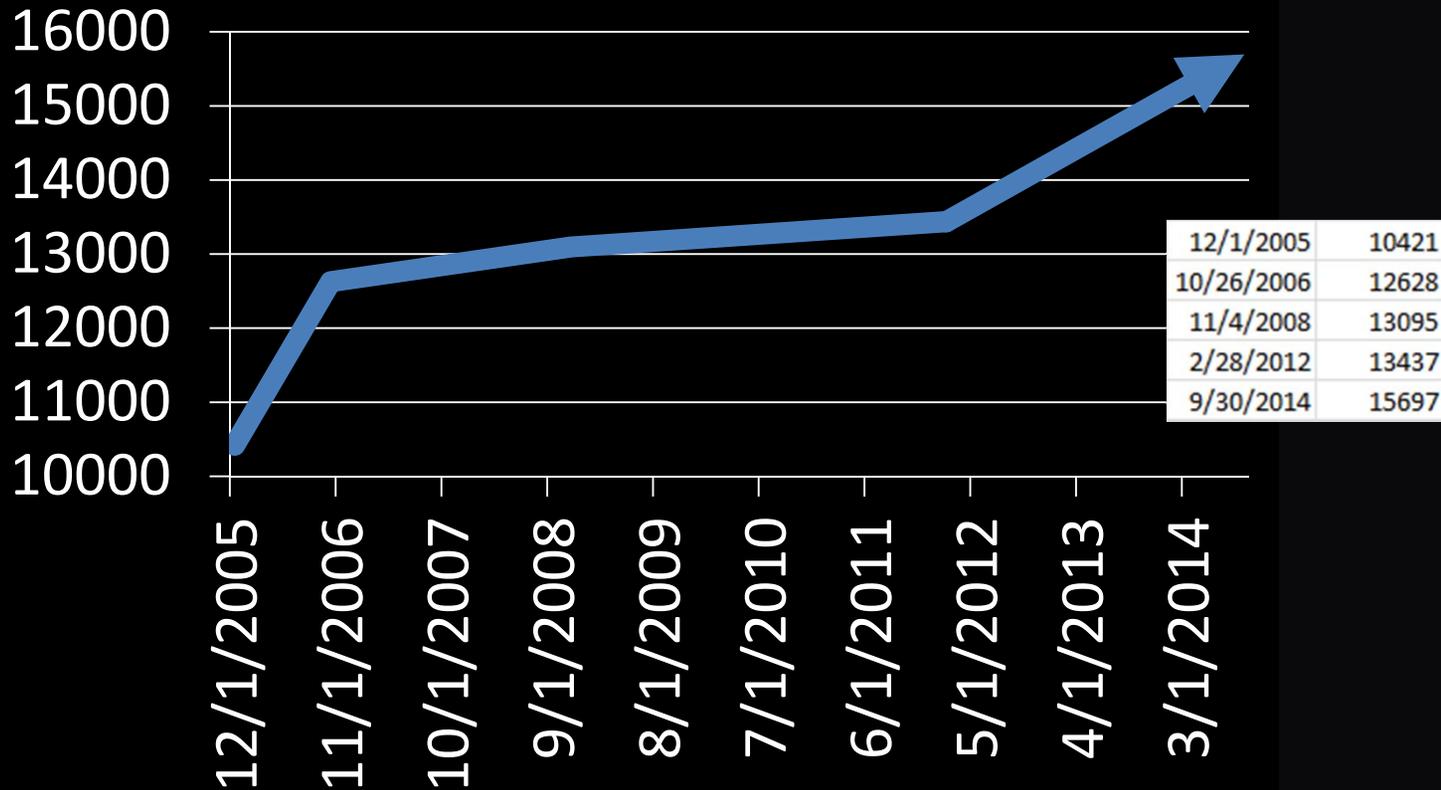
	2006	2008	2014
Allen (Exchange to Comanche)	12,600	13,095	15,697
	Past		Present
McKinney (North of 121)	6,629		10,238
Plano (South of Hedgcoxe)	20,196		23,438



**PREDICTING GROWTH**



## Alma Drive Volume (ADT) – Comanche to Exchange



**PREDICTING GROWTH**



**Texas Department of Transportation  
Recommended Average Daily Traffic (ADT) Volumes by Facility**

Highway Class <sup>1</sup>	Good Flow LOS A-B	Tolerable Flow LOS C-D	Undesirable Flow LOS E (Capacity)
<b>Urban Freeways:</b>			
4 Lane	0 - 44,000	44,001 - 52,800	52,801 - 64,400
6 Lane	0 - 66,000	66,001 - 79,200	79,201 - 96,600
8 Lane	0 - 88,000	88,001 - 105,600	105,601 - 128,800
Each Additional Lane	0 - 11,000	11,001 - 13,200	13,201 - 16,100
<b>Urban Divided Streets (2):</b>			
4 Lane	<del>0 - 16,100</del>	<del>16,101 - 19,100</del>	19,101 - 23,000
6 Lane	0 - 23,500	23,501 - 27,900	27,901 - 33,000
8 Lane	0 - 29,400	29,401 - 34,900	34,901 - 42,000
<b>Urban Undivided Streets (2):</b>			
2 Lane	0 - 7,700	7,701 - 9,100	9,101 - 11,000
4 Lane	0 - 12,600	12,601 - 14,900	14,901 - 18,000
6 Lane	0 - 19,800	19,801 - 23,500	23,501 - 28,300

**CAPACITY STANDARDS**



Tolerable Flow LOS C-D	Undesirable Flow LOS E (Capacity)
44,001 - 52,800 66,001 - 79,200 88,001 - 105,600 11,001 - 13,200	52,801 - 64,400 79,201 - 96,600 105,601 - 128,800 13,201 - 16,100
<del>16,101 - 19,100</del> 23,501 - 27,900 29,401 - 34,900	19,101 - 23,000 27,901 - 33,000 34,901 - 42,000

## CAPACITY STANDARDS



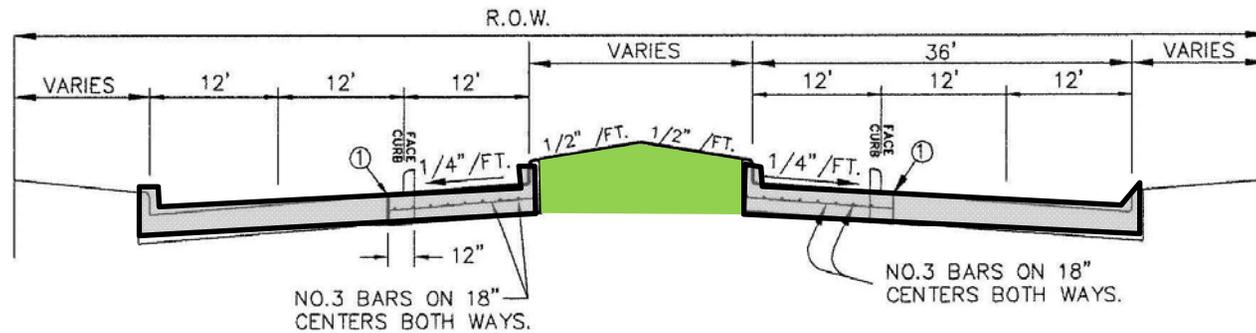
- ❖ Estimated \$5.5M project
- ❖ Scope includes:
  - ✓ Adding two more lanes
  - ✓ Implementing intersection/signal improvements (i.e. turn lanes).
  - ✓ Illumination
  - ✓ Landscaping



## PROJECT OVERVIEW



# 40ft median will reduce to 16' median



TYPICAL PAVEMENT SECTION

NTS



## ALMA DRIVE CROSS SECTIONS

*Standard Sections*







WB Exchange Parkway



EB Exchange Parkway



Bethany Drive



E Main Street

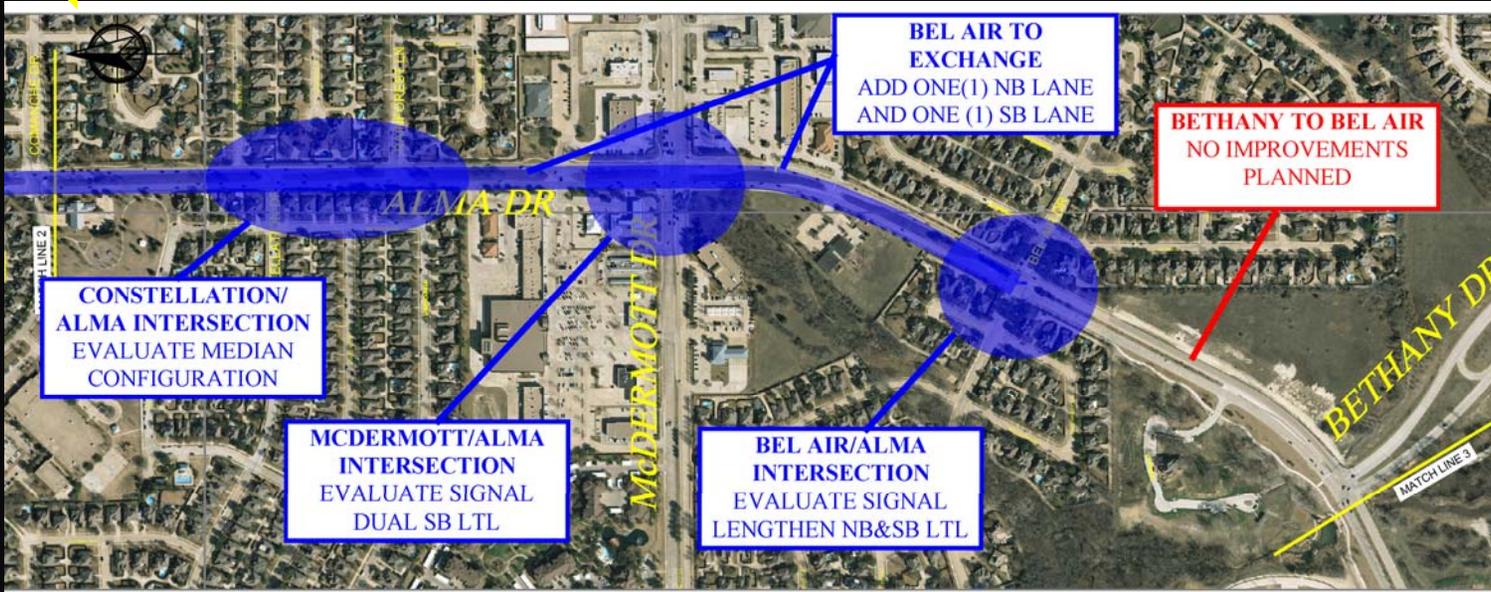
**PREVIOUS MEDIAN PROJECT PHOTOS**





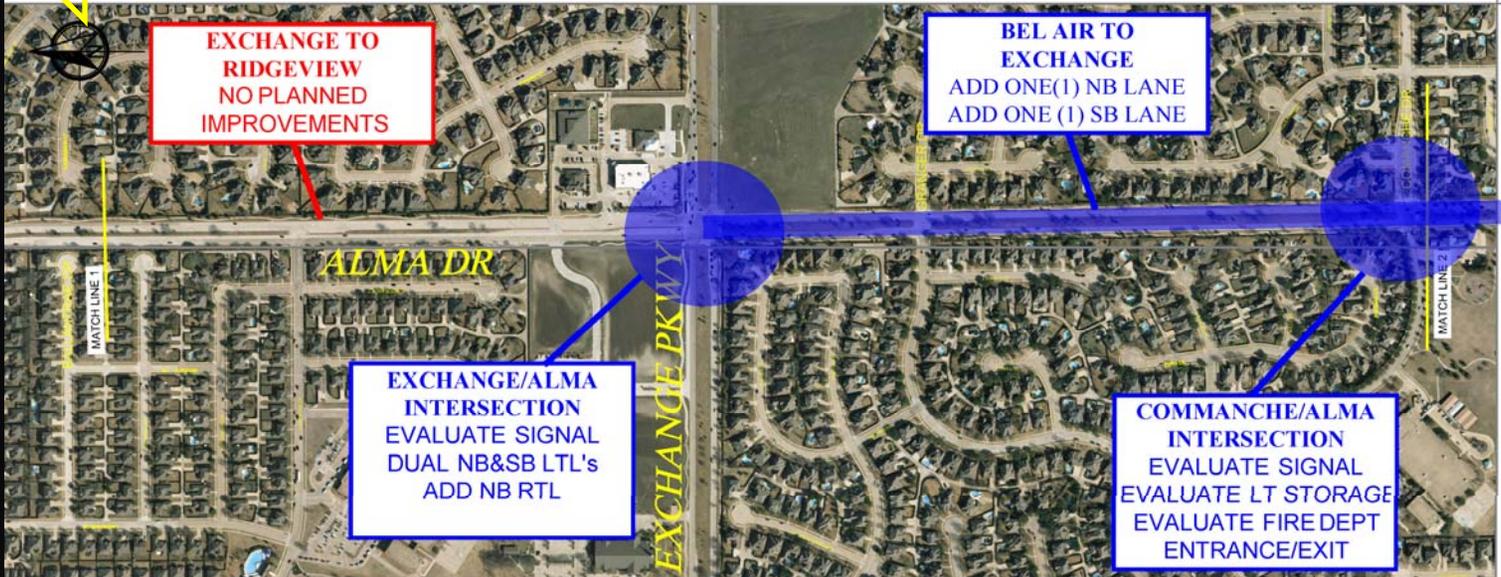
# ALMA DRIVE PLANNED IMPROVEMENTS





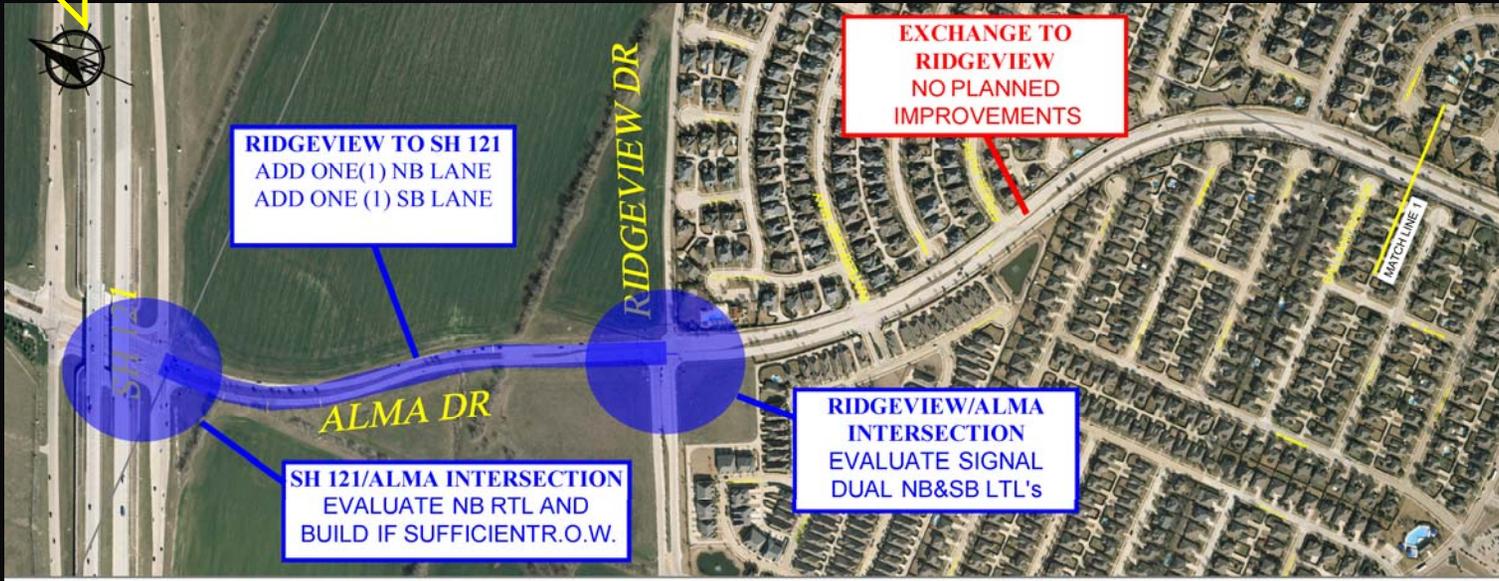
# ALMA DRIVE PLANNED IMPROVEMENTS





# ALMA DRIVE PLANNED IMPROVEMENTS





RIDGEVIEW TO SH 121  
ADD ONE(1) NB LANE  
ADD ONE (1) SB LANE

EXCHANGE TO  
RIDGEVIEW  
NO PLANNED  
IMPROVEMENTS

SH 121/ALMA INTERSECTION  
EVALUATE NB RTL AND  
BUILD IF SUFFICIENT R.O.W.

RIDGEVIEW/ALMA  
INTERSECTION  
EVALUATE SIGNAL  
DUAL NB&SB LTL's

# ALMA DRIVE PLANNED IMPROVEMENTS

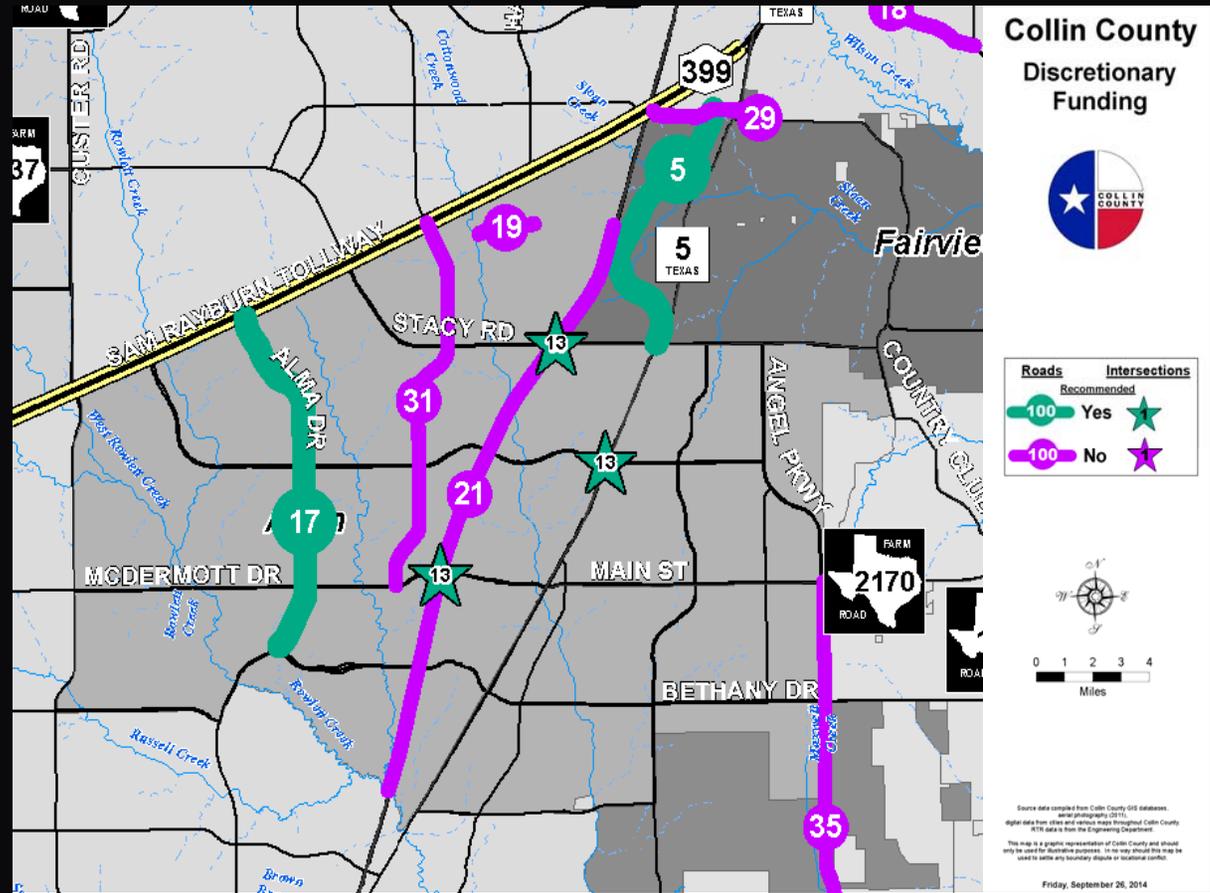


- ❖ \$20.9M from the 2007 Collin County Road Bond Program to be used at the discretion of the Commissioners Court
- ❖ Comm. Court directed their Engineering Dept. staff to solicit and rank projects
- ❖ Project ranking was based on the following:
  - Ability to match County funds
  - Projects quickest ready for construction
  - Projects that will most relieve congestion



**COUNTY PARTICIPATION**





# DISCRETIONARY FUNDS MAP

*City of Allen Area*



- **Jan. 2014** – Collin County solicits projects
- **Aug. 2014** – Collin County adopts an update to their Mobility Plan
- **Oct. 2014** – Collin County adopts \$21M project list (\$3.2M → Allen)
- **Apr. 2015** – Allen approves agreement with Collin County for Alma funding
- **July 2015** – Allen approves engineering contract
- **June 2016** – Design/landscape plans prepared
- **Fall 2016** – Construction begins (earliest)

## TIMELINE





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**Jim Waldbauer, P.E.**  
BW2 Engineers, Inc.  
Engineering Consultant



**ALMA DRIVE PROJECT TEAM**



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214.509.4578



**QUESTIONS?**

