



COLLIN COUNTY
MOBILITY PLAN

2014 UPDATE



Purpose of Mobility Plan

- Identify transportation needs to serve future growth.
 - Develop plans for 2020 and 2035 to guide development of the transportation system.
 - Preserve corridors and acquire right-of-way for planned facilities as development occurs.
 - Advise citizens, property owners and developers of long-range plans.



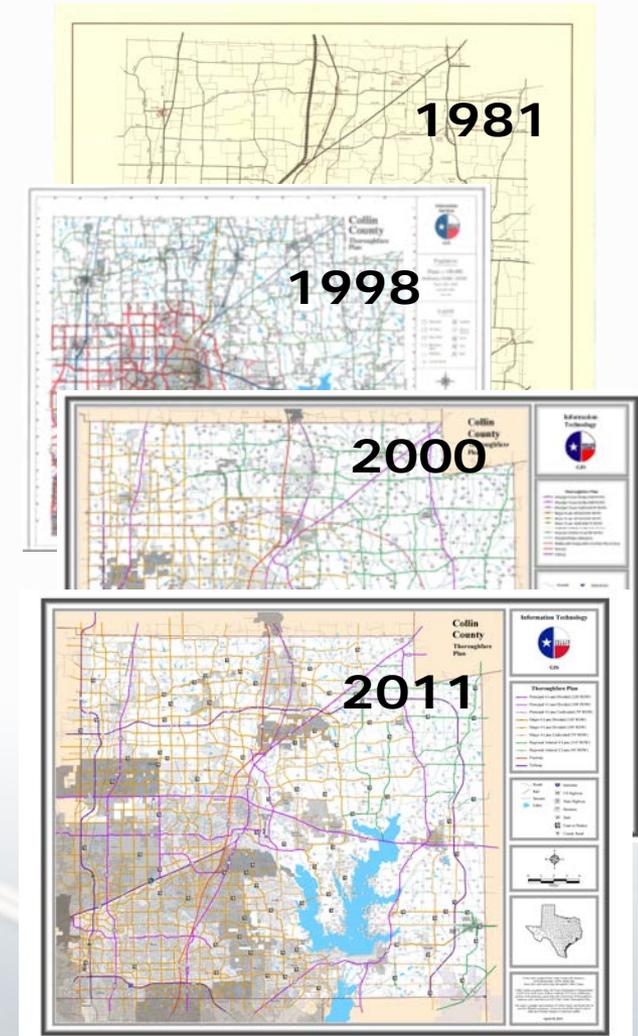
Purpose of Mobility Plan

- Guide public investments in improving transportation facilities and services.
- Determine the County's capability to fund improvements needed by 2020.



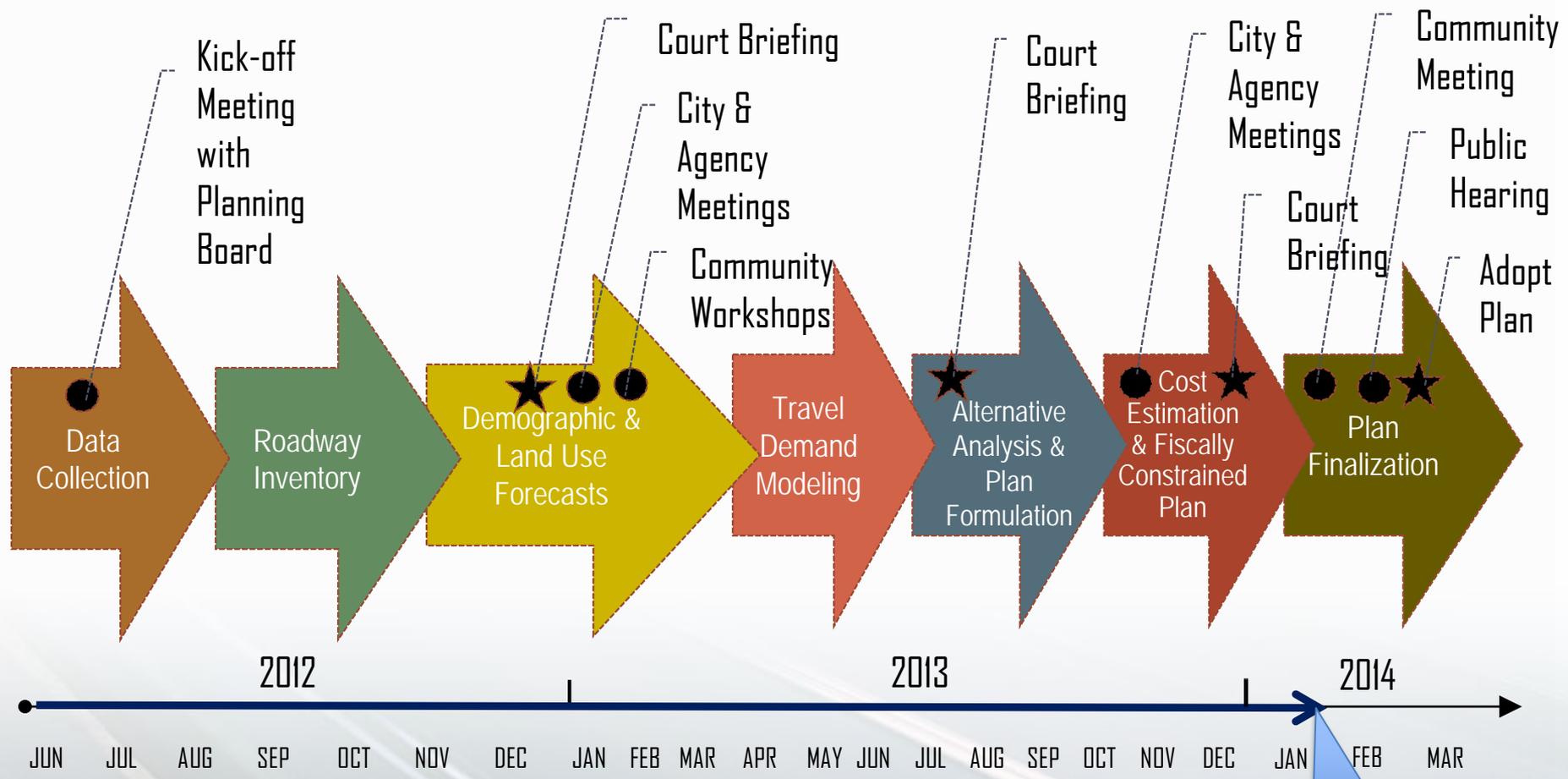
History of Collin County Mobility Plan

- 1981 – Thoroughfare Plan adopted
- 1998 – Mobility Plan developed
- 2000 – Mobility Plan update
- 2002 – Thoroughfare Plan update
- 2007 – Mobility Plan update
- 2011 – Thoroughfare Plan update
- **2014 – Mobility Plan update**





Project Timeline Schedule

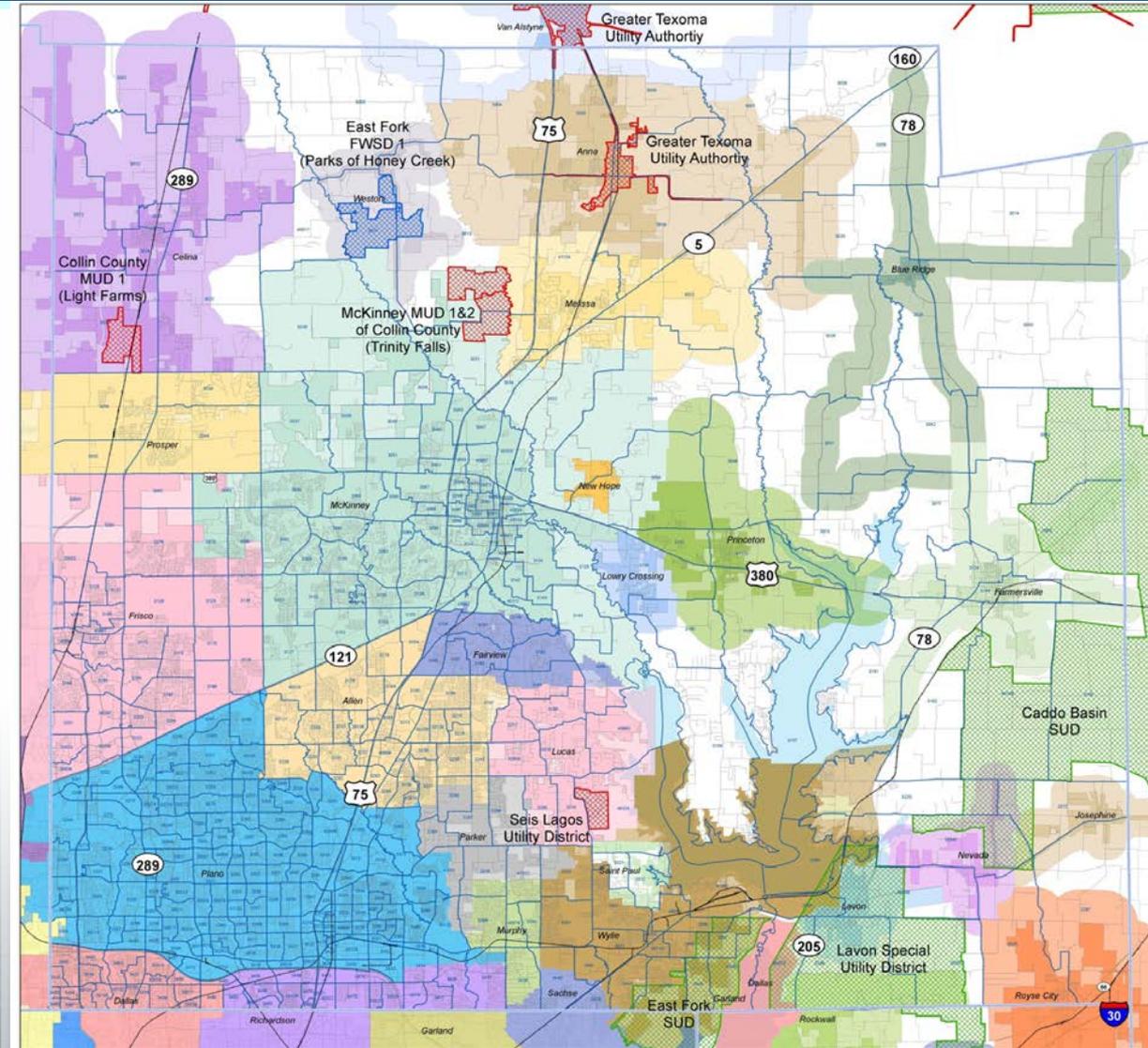


NOTE: Bi-monthly Work Sessions with the County Planning Board.

We are here



Study Area Collin County Mobility Plan

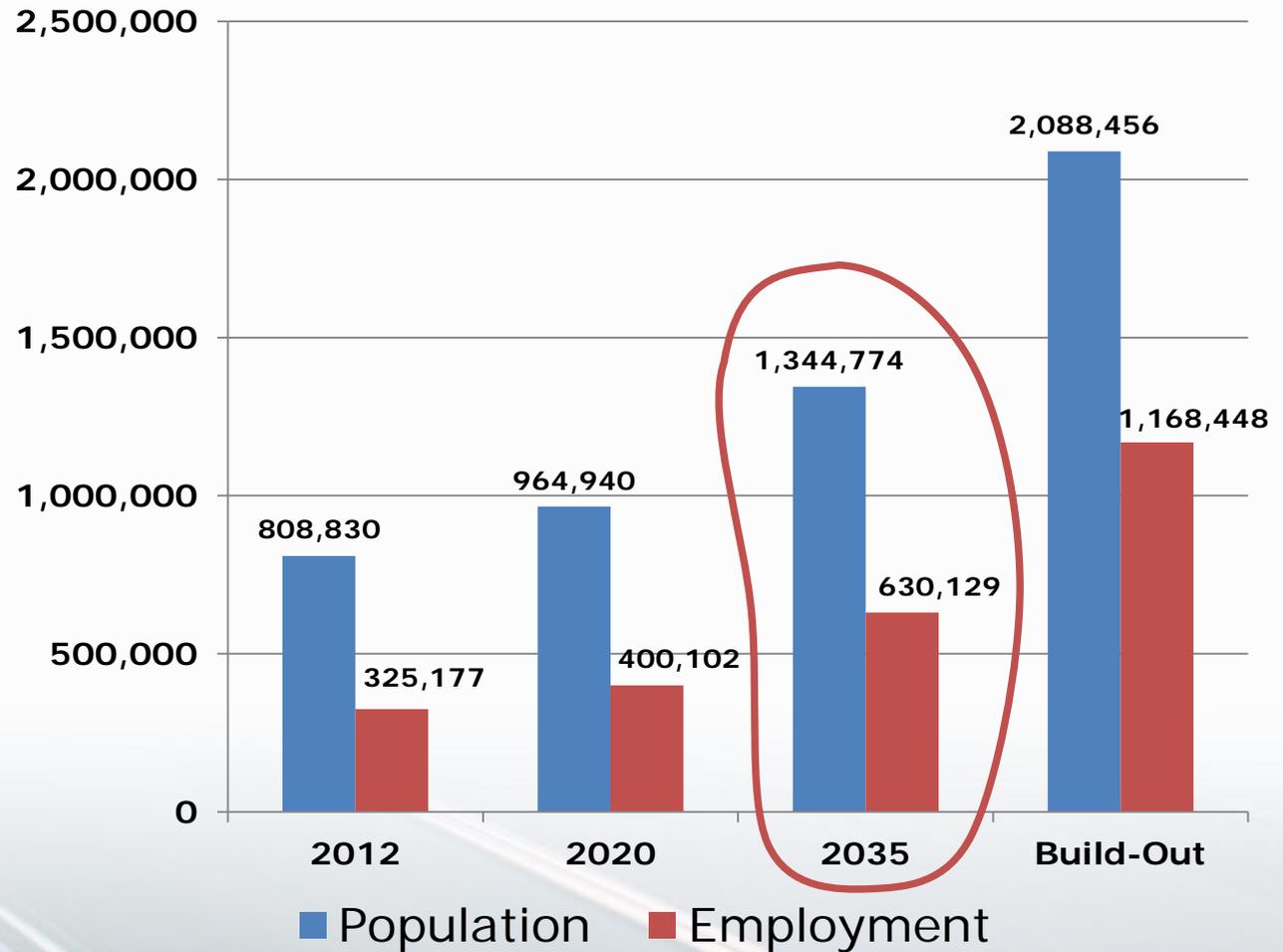


- 886 Sq. Mi.
- 834,632 Population (2012)
- 31 Cities and Extraterritorial Jurisdictions (ETJ)
- 2 Municipal Utility Districts (MUD)
- 3 Special Utility Districts (SUD)
- 1 Fresh Water Supply Districts (FWSD)
- 1 Utility Authority



Demographic Forecasts Collin County Mobility Plan

- Mobility Plan is focused on 2035
- 1.3 million people
- 630,000 jobs



Source: Mobility Plan Team



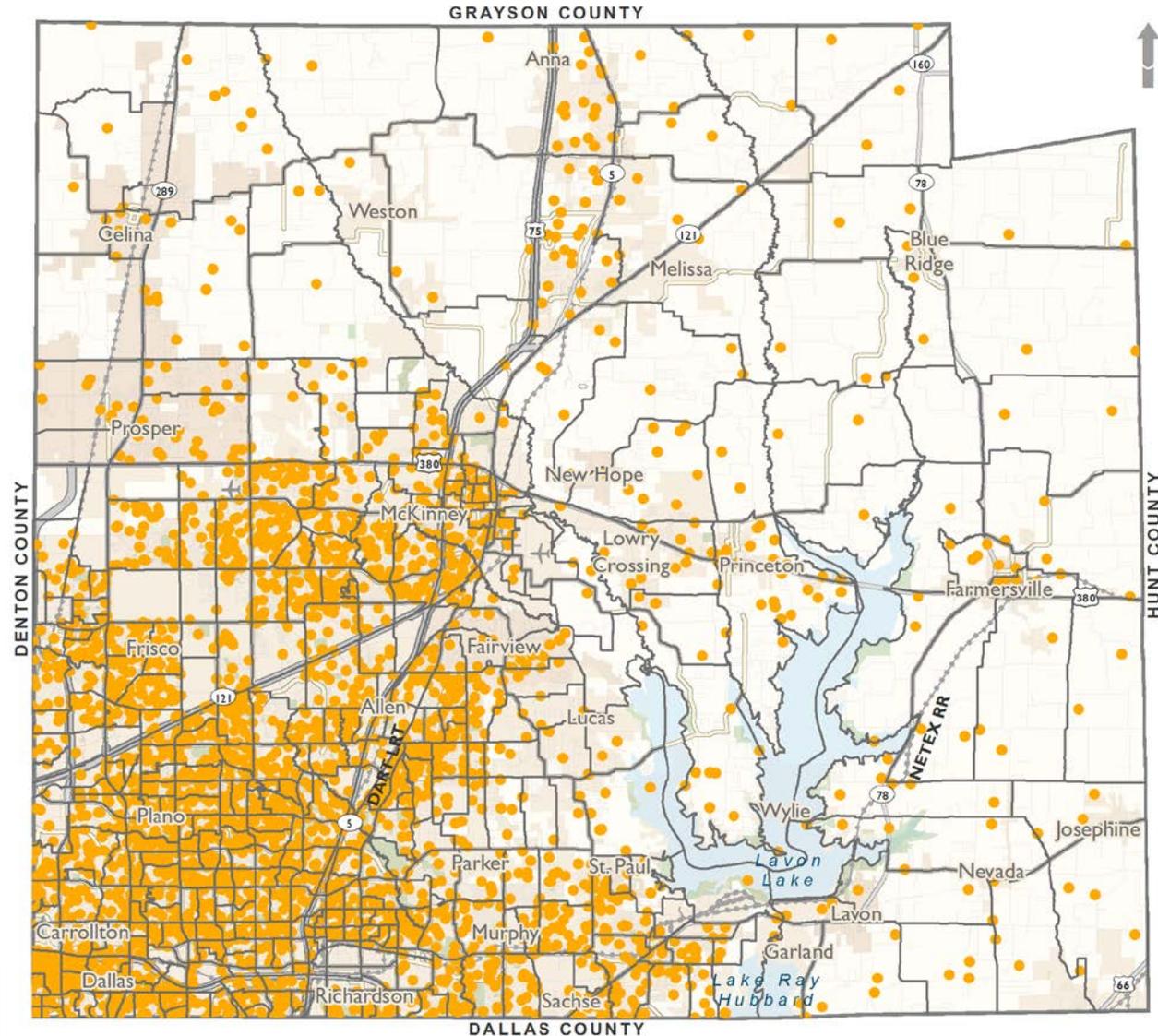
Population Dot Density

2012 Population Estimates

● 1 Dot = 250 Persons

⊕ Traffic Survey Zone

Source: *Mobility Plan Team*





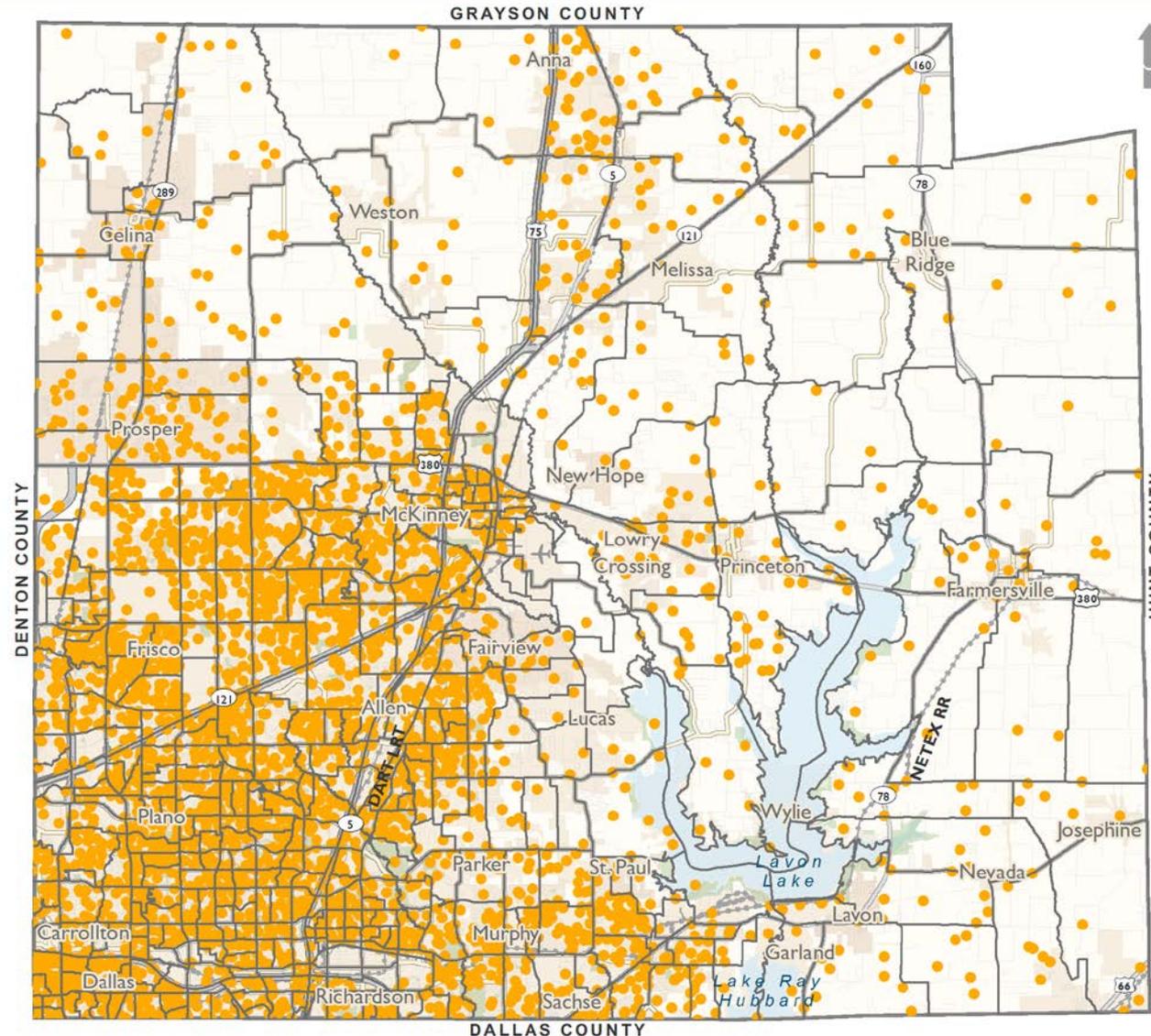
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2020 Population Estimates

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Source: *Mobility Plan Team*





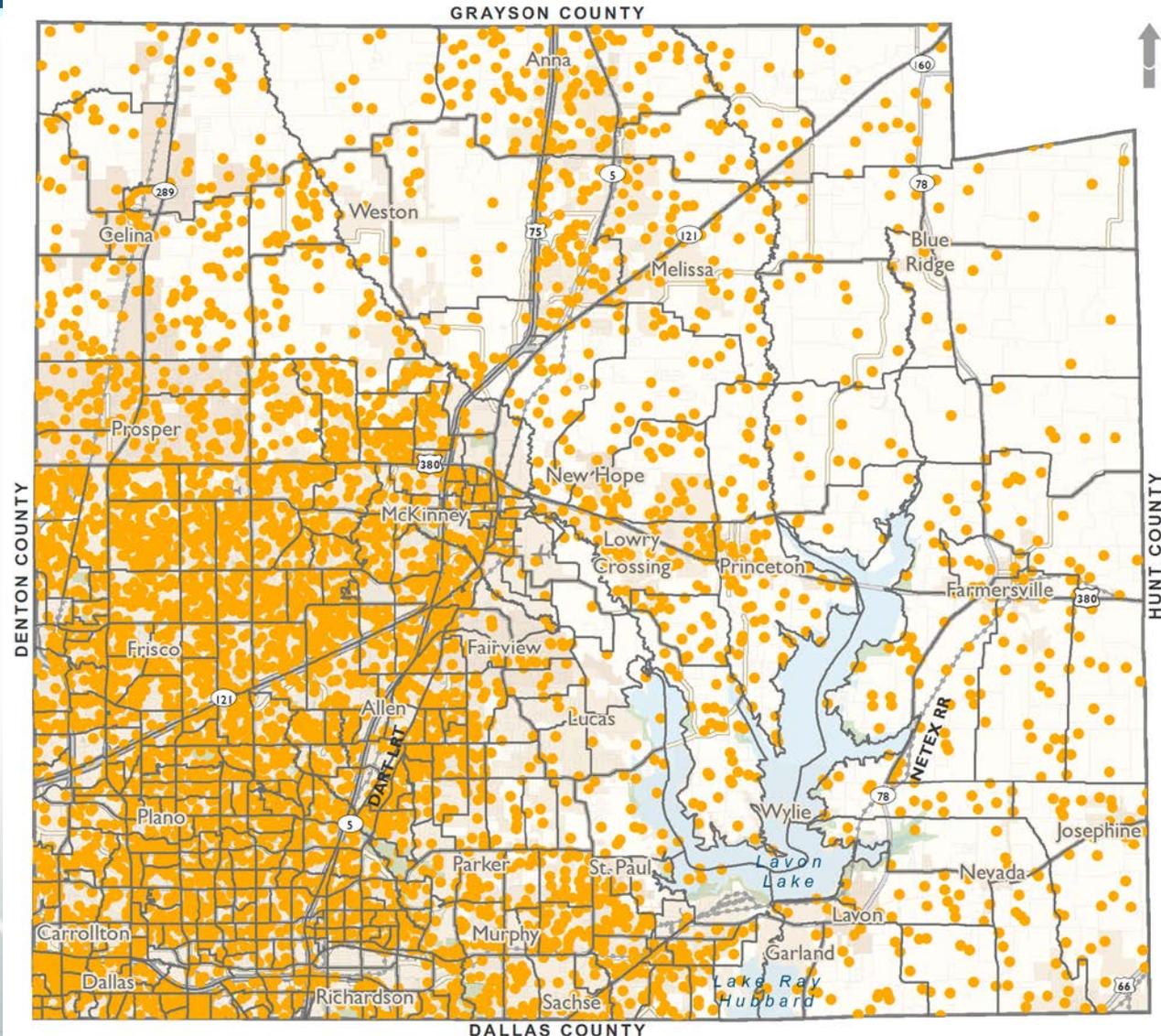
Population Dot Density

2035 Population Estimates

● 1 Dot = 250 Persons

⊕ Traffic Survey Zone

Source: *Mobility Plan Team*





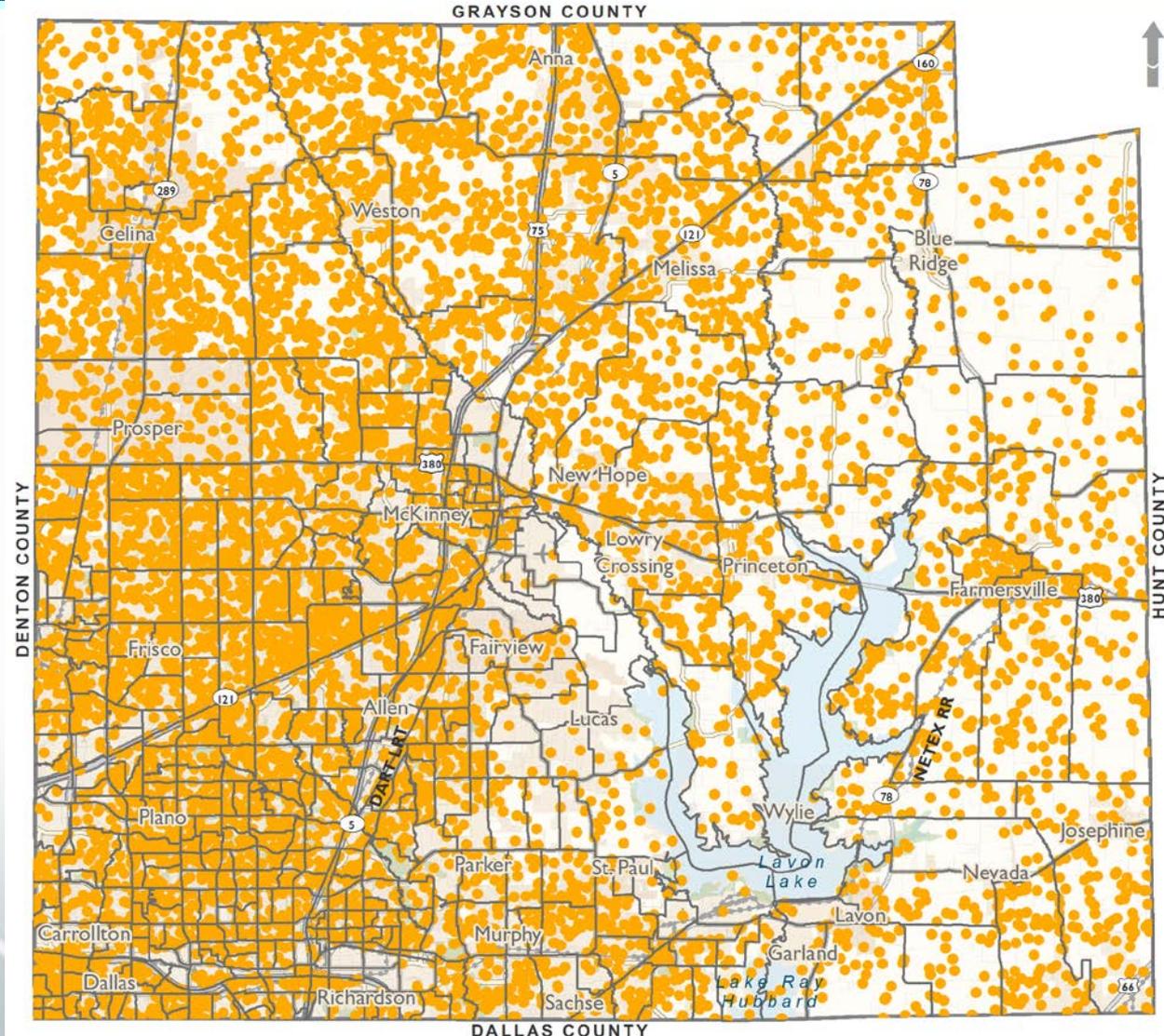
Population Dot Density

Build-Out Population Estimates

● 1 Dot = 250 Persons

⊕ Traffic Survey Zone

Source: *Mobility Plan Team*





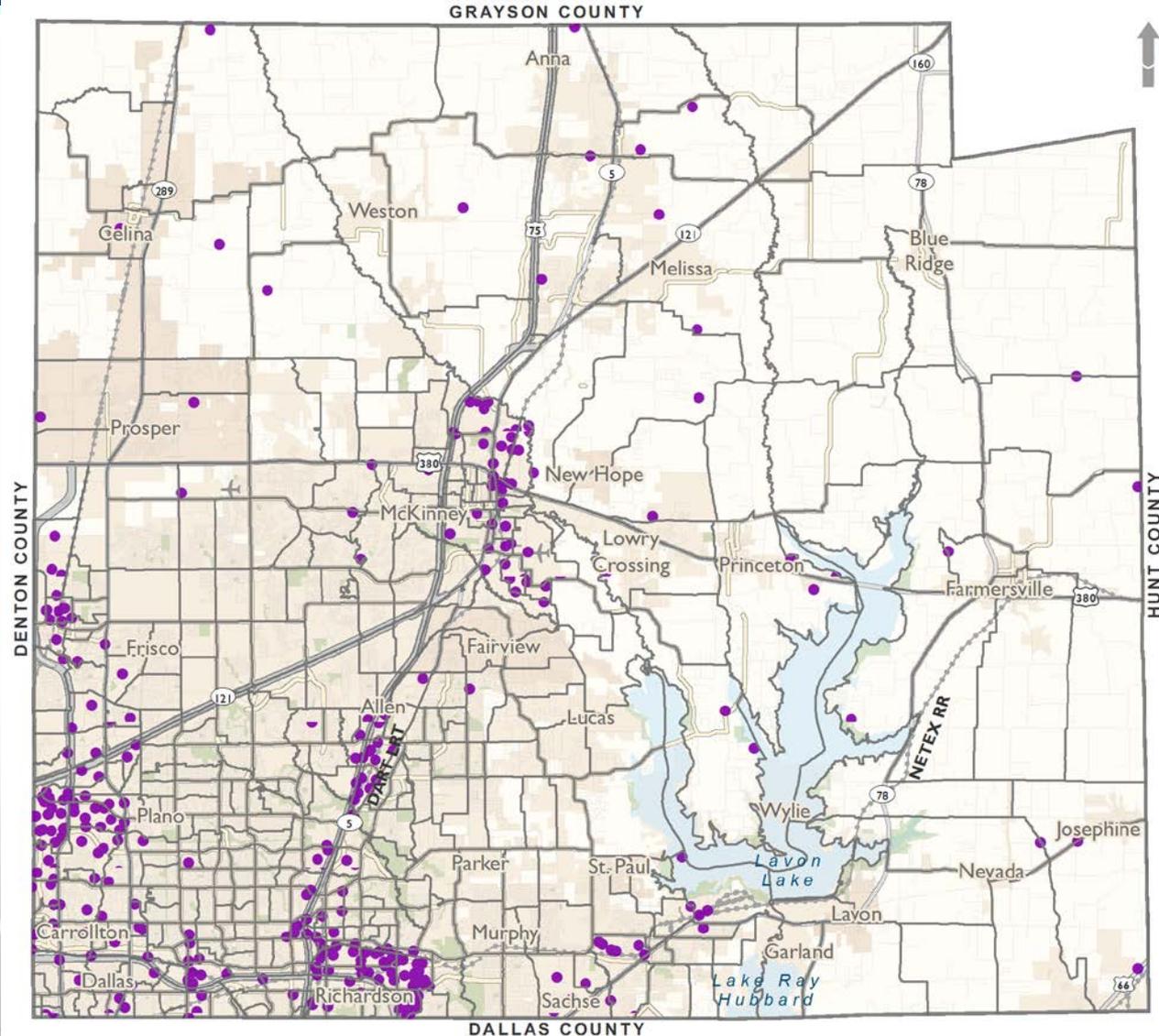
Employment Dot Density

2012 Employment Estimates

● 1 Dot = 250 Jobs

⊕ Traffic Survey Zone

Source: *Mobility Plan
Team*



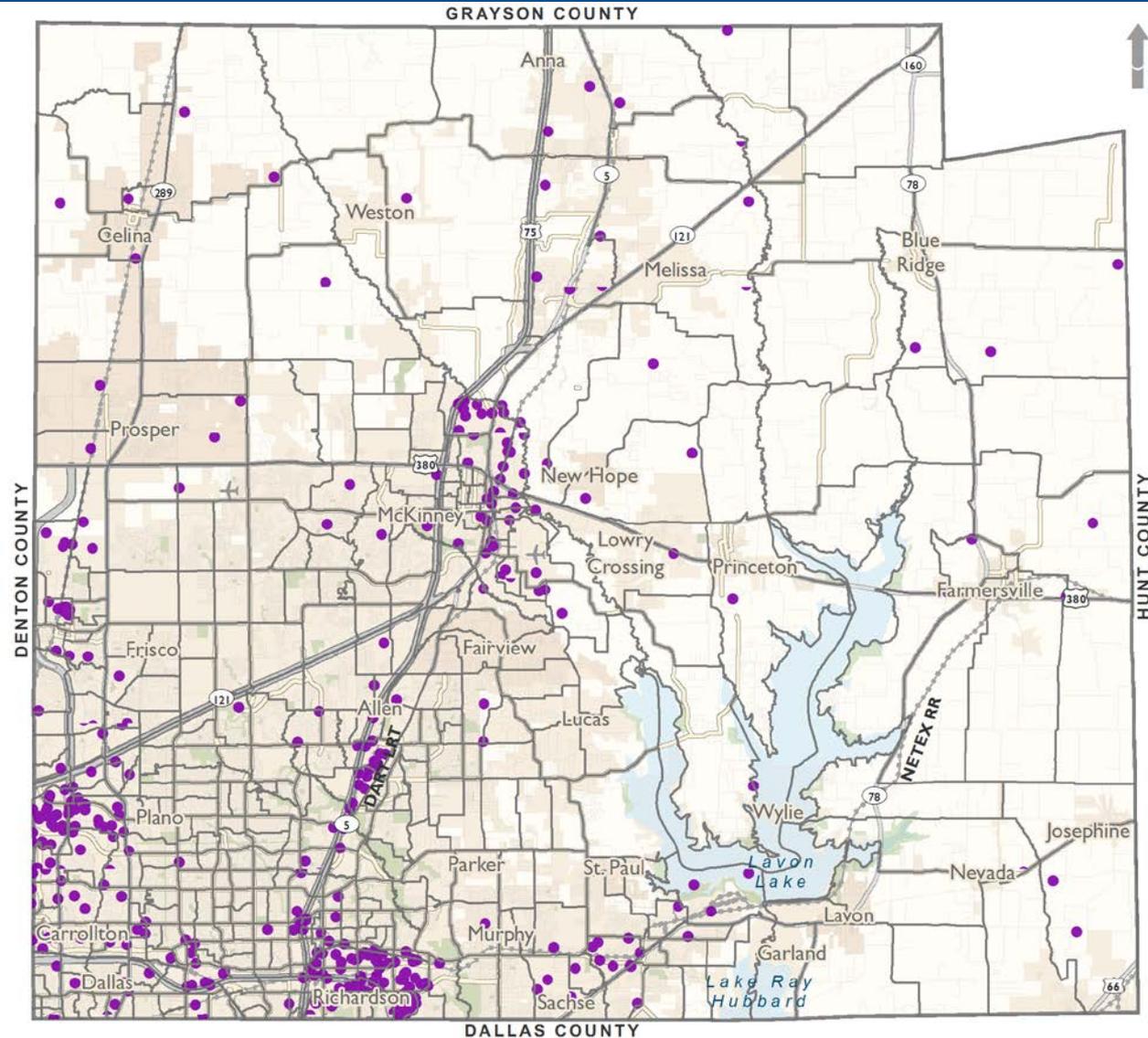


Employment Dot Density

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Source: *Mobility Plan Team*



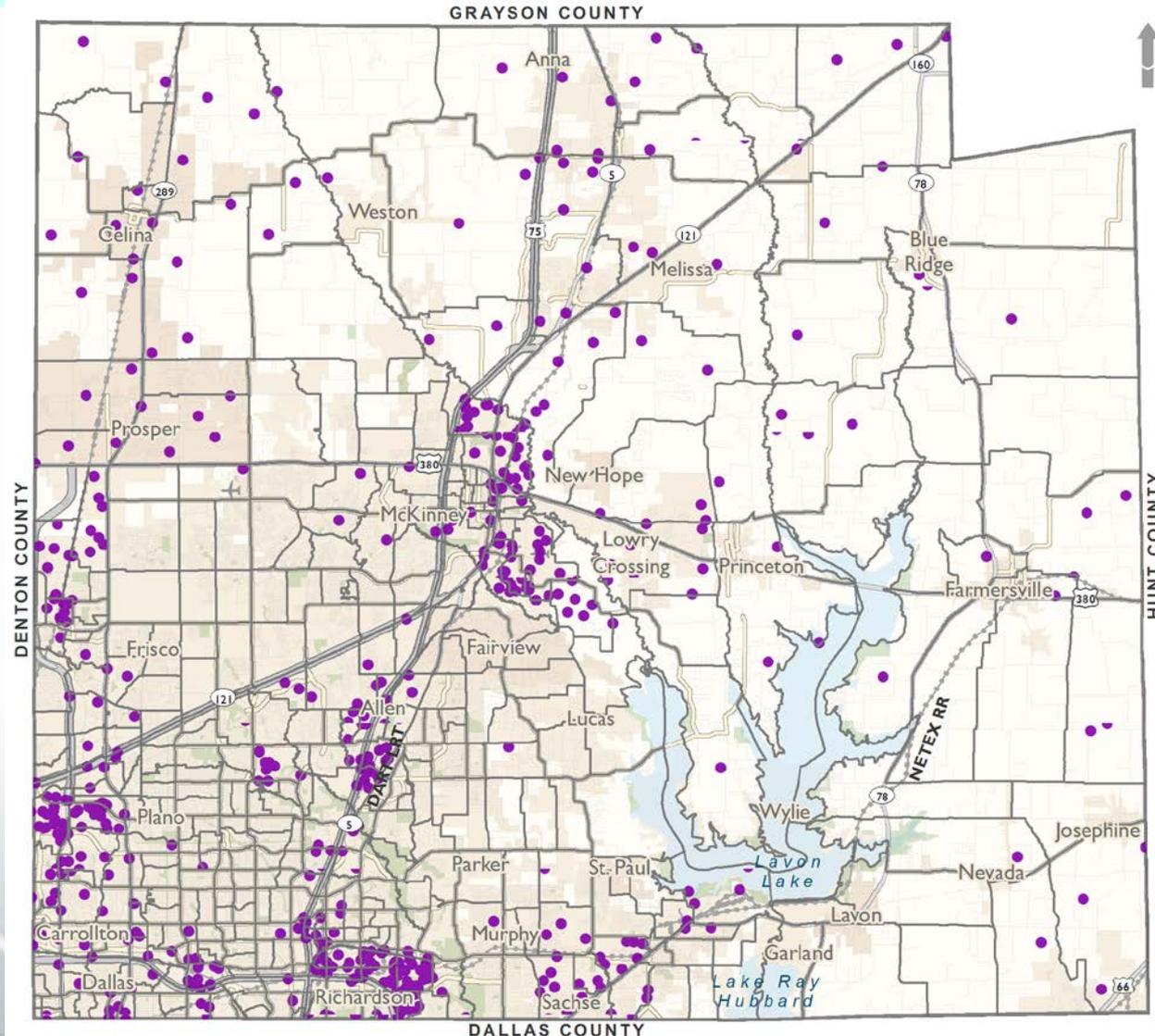


Employment Dot Density

2035 Employment Estimates

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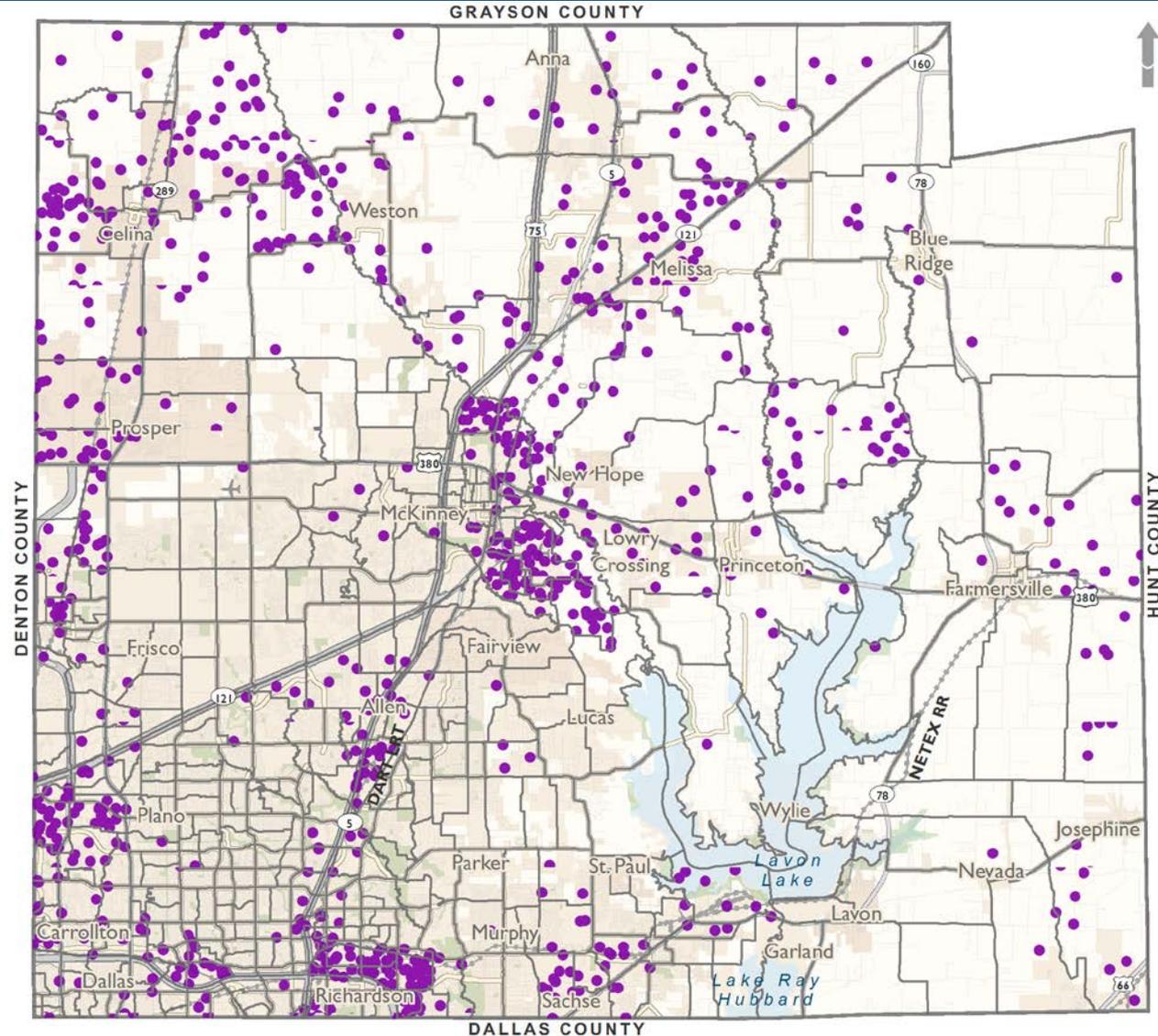


Employment Dot Density

Build-Out Employment Estimates

- 1 Dot = 250 Jobs
- ⊕ Traffic Survey Zone

Source: *Mobility Plan Team*





Future Land Use Plan Collin County Mobility Plan

Legend

– Residential



- Rural = 1.0 DU/Ac or less
- Semi-Urban = 1.0 to 3.0 DU/Ac
- Urban = 3.0 DU/Ac or greater

– Nonresidential

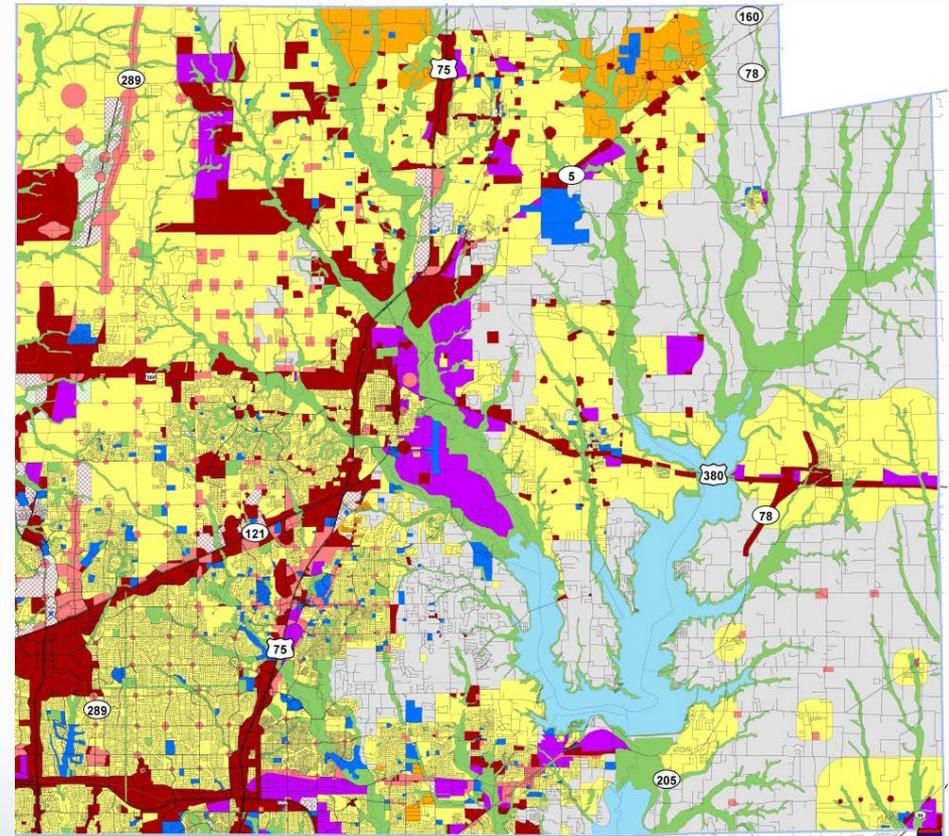


- Retail
- Service (Office, Commercial)
- Basic (Industrial)

– Mixed Use / Special



- Mixed Use Residential (Per Comp Plans)
- Mixed Use Nonresidential (Per Comp Plans)
- Public/Semi Public, Parks/Floodplain, and Lake (Per Site)



Source: *Mobility Plan Team*



Public Outreach and Engagement

Opportunities and Choices for involvement:

- CCMP Webpages on Collin County Website
- 4 Community Workshops on February 19, 20, 25 and 26, 2013
- Online: E-mails and opinion survey
- Community Meeting on February 18, 2014



Plano

2/19/1013

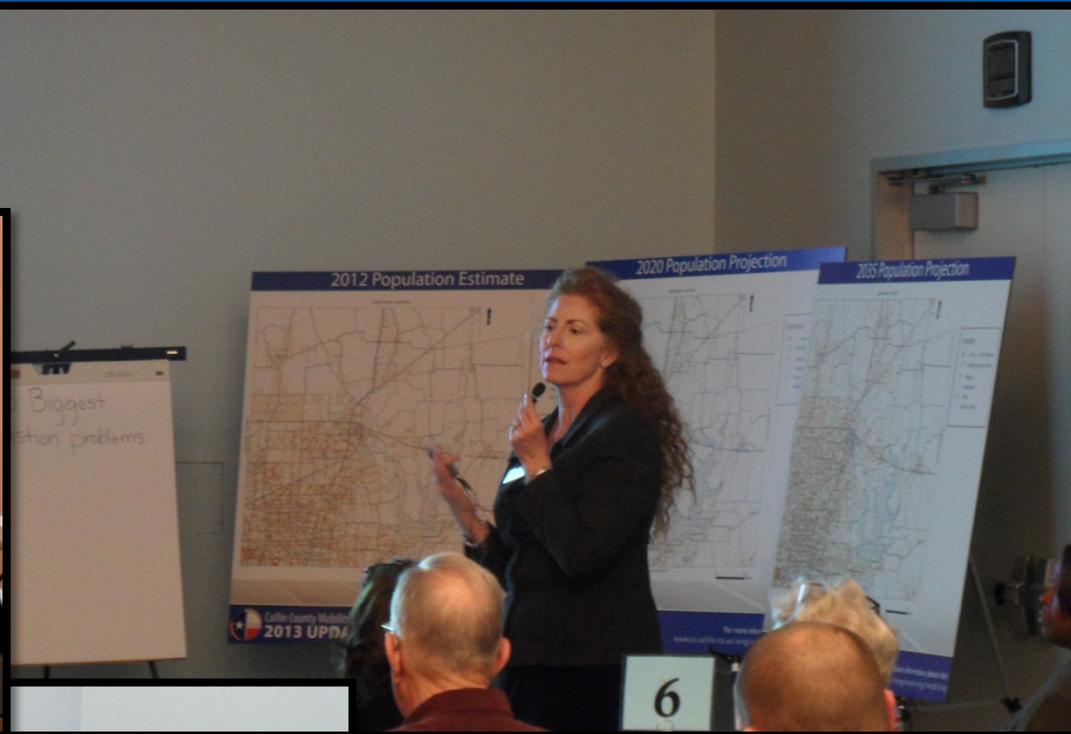
- 4. Demographic Forecasts
- 5. Your input – Small Group Discussion





Wylie

2/20/2013





Prosper

2/25/2013





McKinney

2/26/2013





Community Meeting at Collin County College Central Campus – February 18, 2014





Travel Demand Modeling

- NCTCOG Regional Model used to predict traffic on Collin County road network
- Results include Average Daily Traffic (ADT) volumes and Level of Service (LOS)



Travel Demand Modeling

- Level of Service (LOS) is a performance measure of traffic volume versus roadway capacity

- A, B, and C – Desirable
- D – Acceptable
- E – Marginal
- F - Unacceptable



Level of Service (LOS)



LOS "A"



LOS "C"



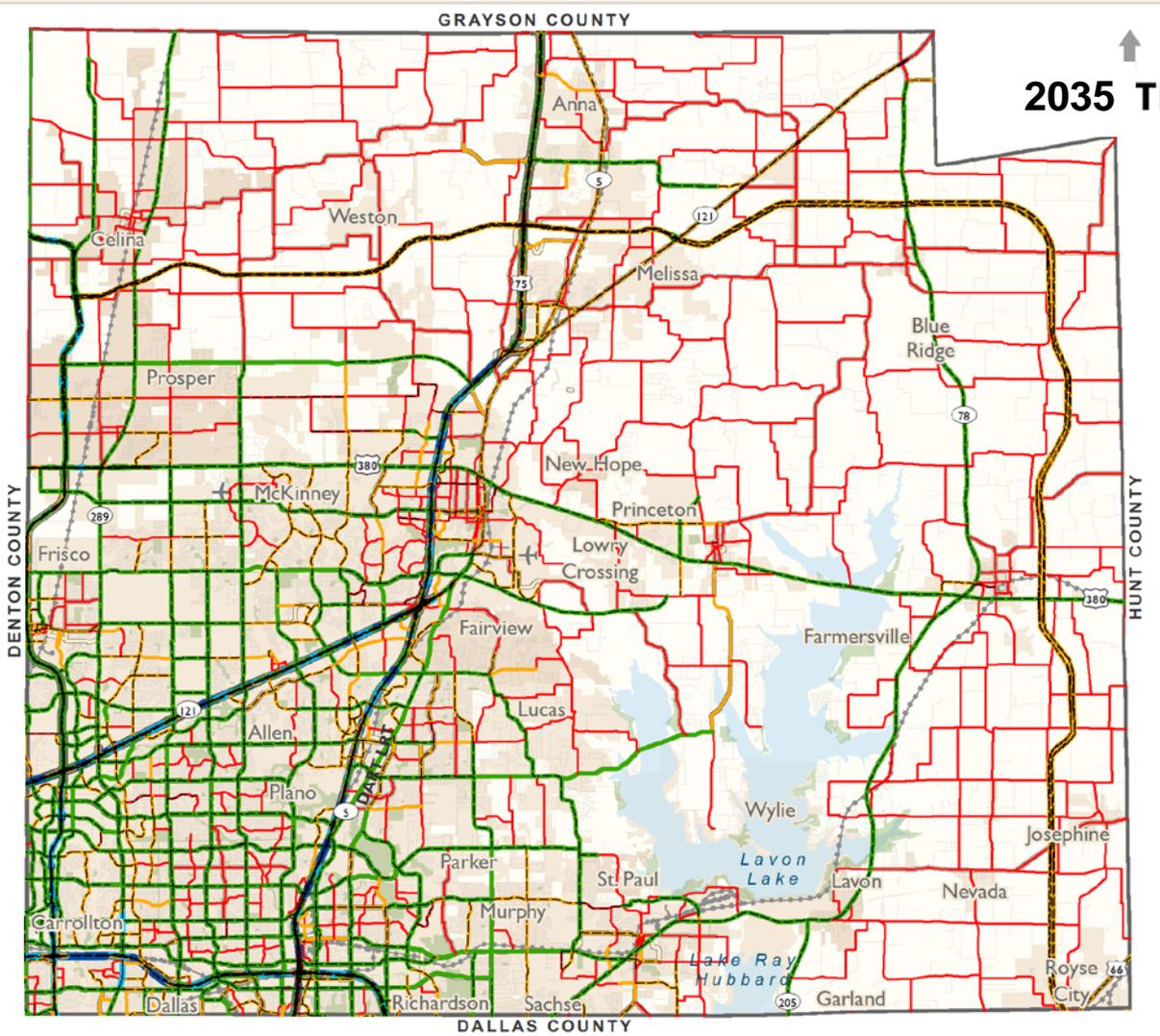
LOS "D"



LOS "F"



2035 Roadway Network Collin County Mobility Plan



2035 TRAVEL DEMAND MODEL NETWORK

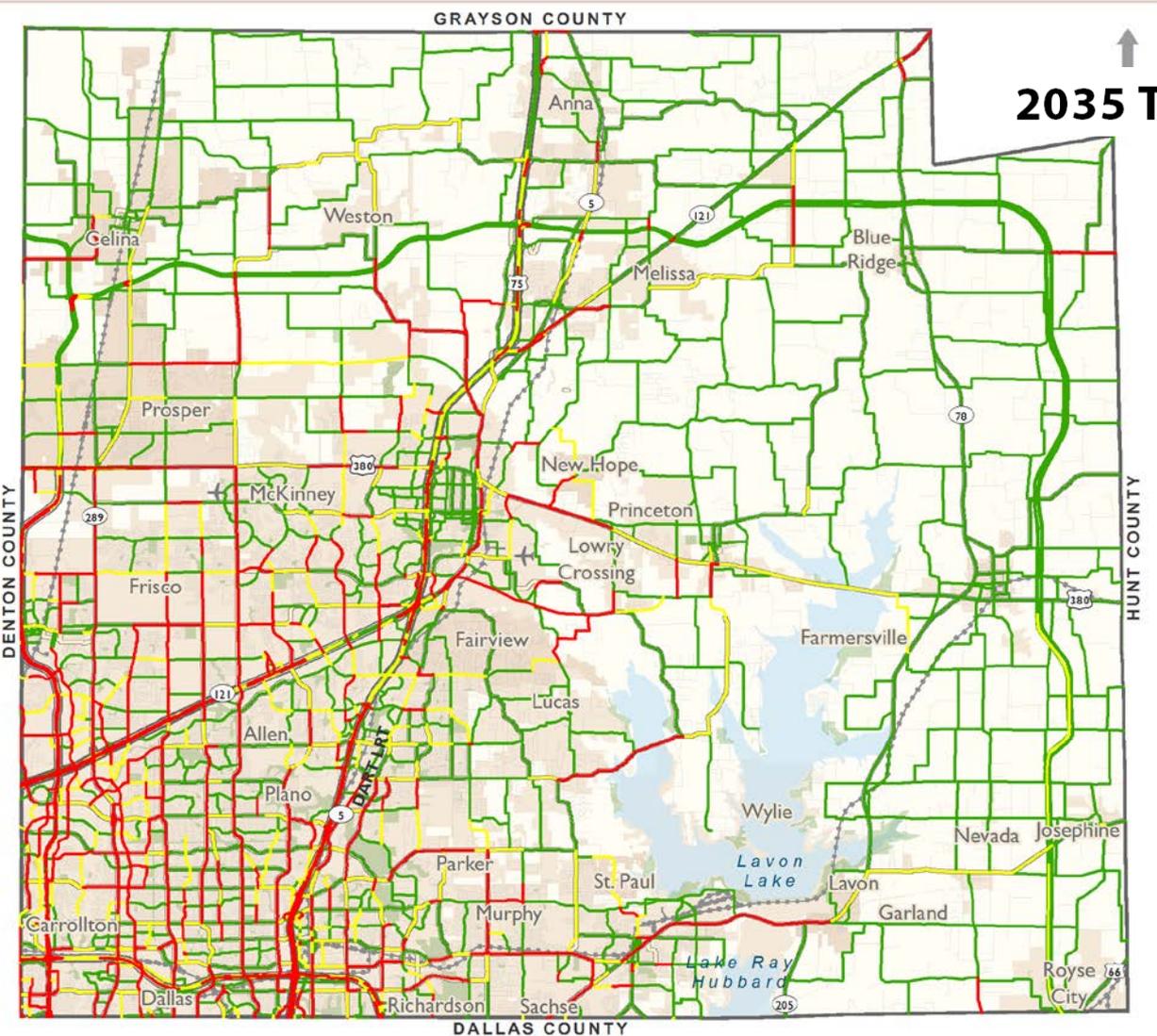
- Number of Lanes**
- 2
 - 4
 - 6
 - 8
 - 10 - 16
 - Divided Lane

- County Line
- Airport
- Railroad
- Park
- Water Body



2035 Level of Service Collin County Mobility Plan

2035 TRAVEL DEMAND MODEL



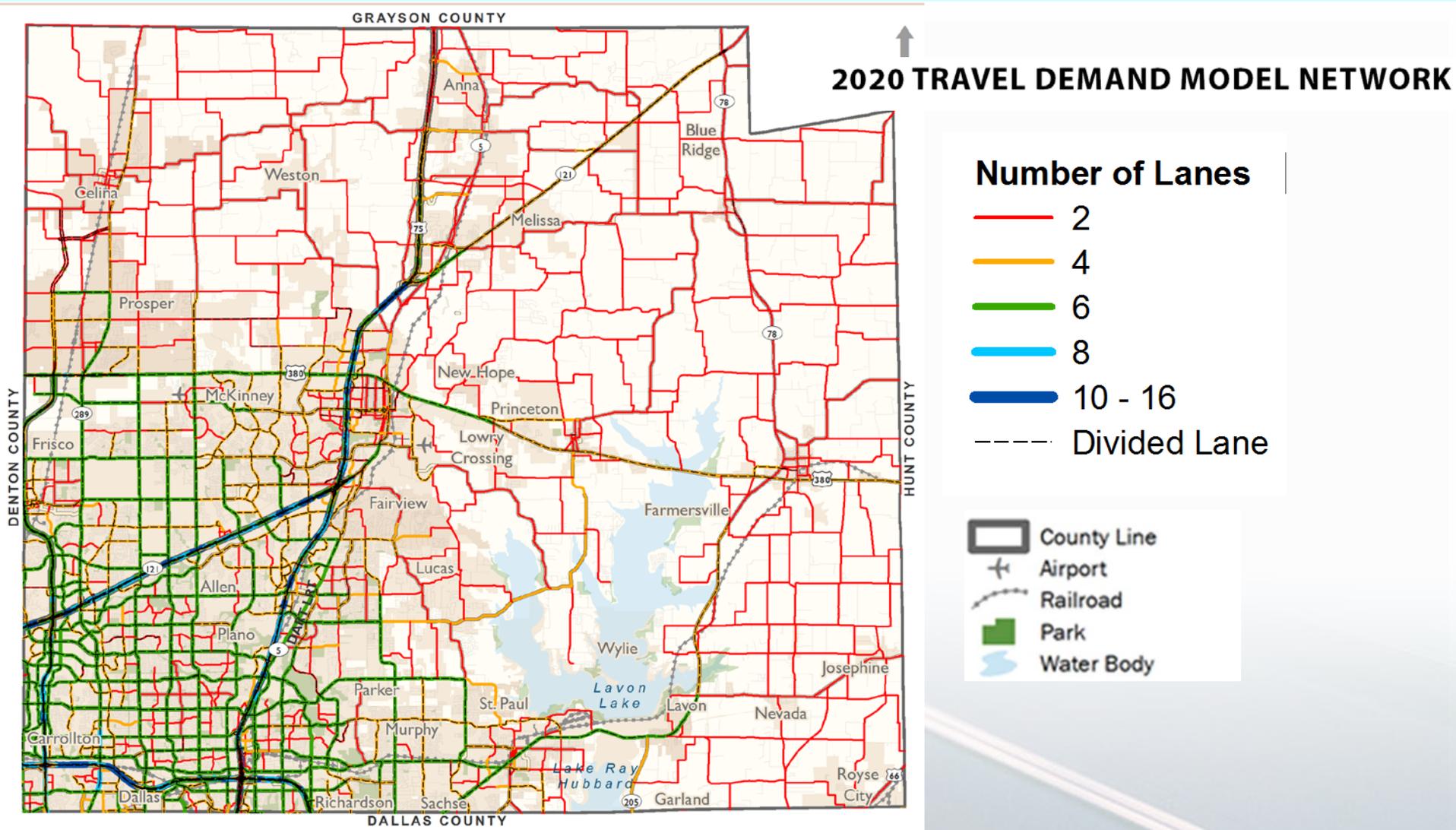
Level of Service

- ABC
- DE
- F

- County Line
- Airport
- Railroad
- Park
- Water Body



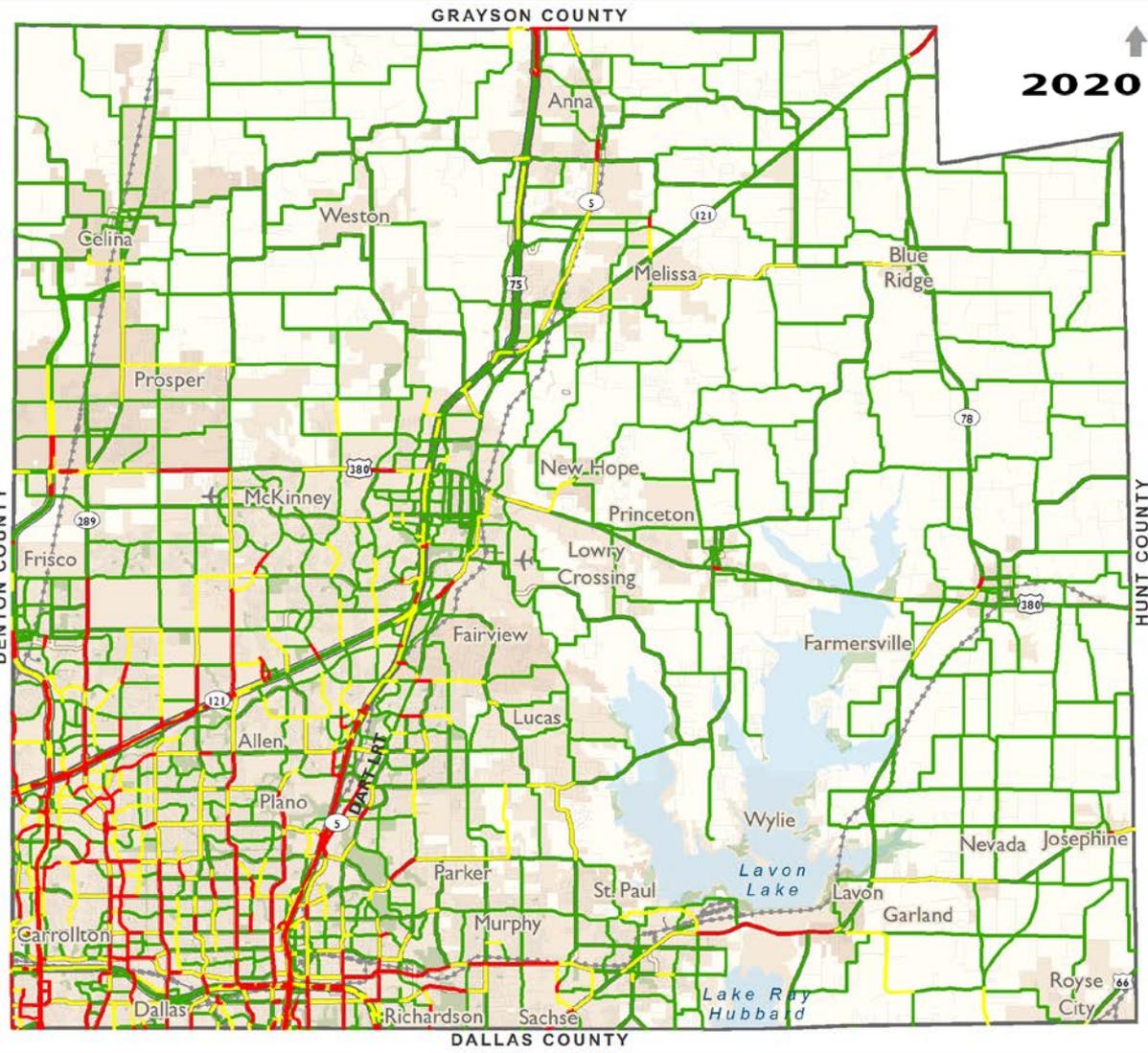
2020 Roadway Network Collin County Mobility Plan





2020 Level of Service Collin County Mobility Plan

↑
2020 TRAVEL DEMAND MODEL



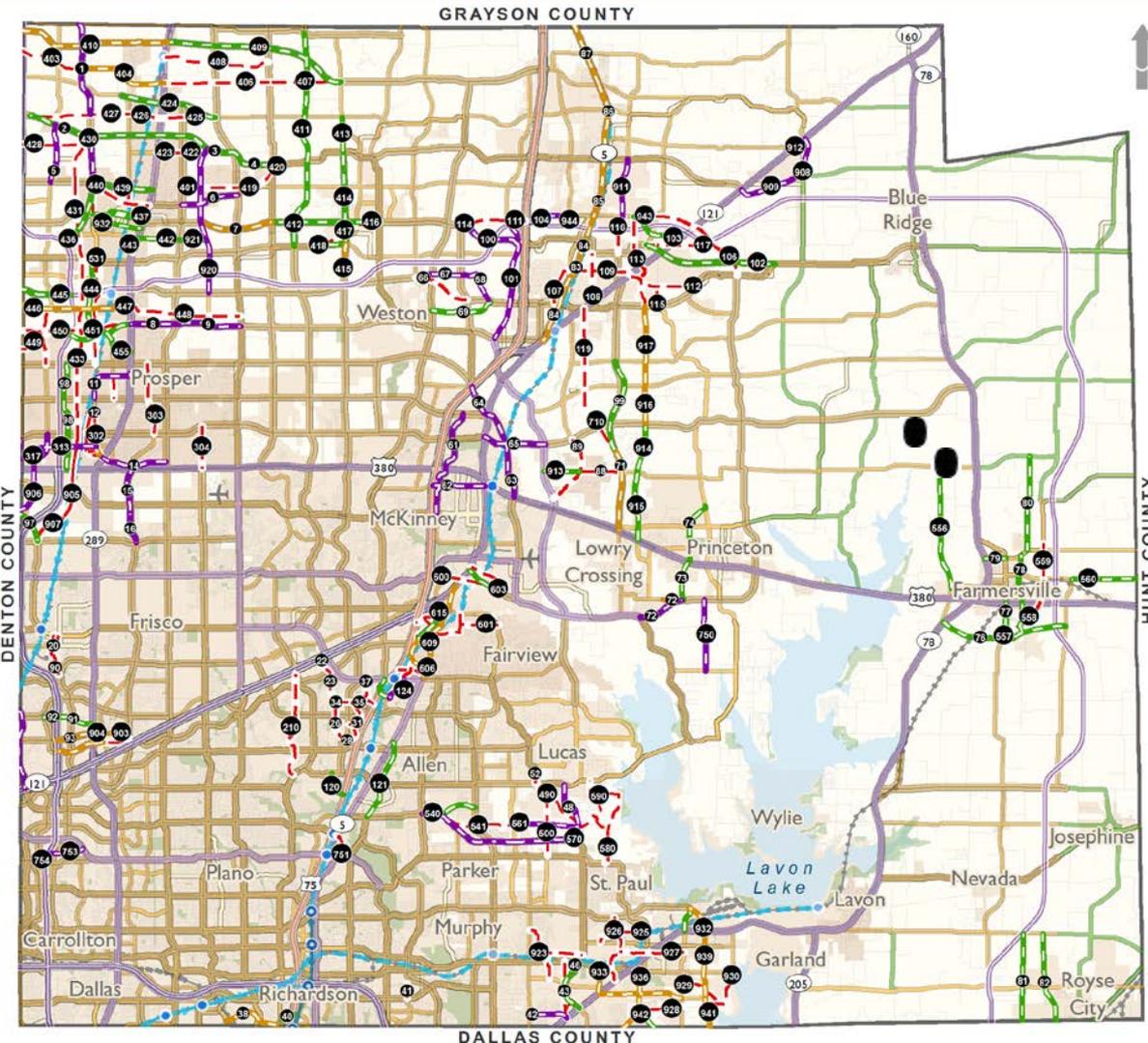
Level of Service

- ABC
- DE
- F

- County Line
- Airport
- Railroad
- Park
- Water Body



Refinements and Requests Collin County Mobility Plan



Refinements and Requests Based on 2007 Plan and 2013 Draft Plan

- Alignment Adjustment
- Capacity Change
- New Thoroughfare Addition
- Removed
- To Be Determined

Draft Thoroughfare Plan (February 2014)

- Freeway
- Tollway
- Principal 6 Lane Divided
- Major 6 Lane Divided
- Major 4 Lane Divided
- Major 4 Lane Undivided
- Major 2 Lane Undivided
- Rural Arterial 4 Lane
- Rural Arterial 2 Lane

Transit Stations

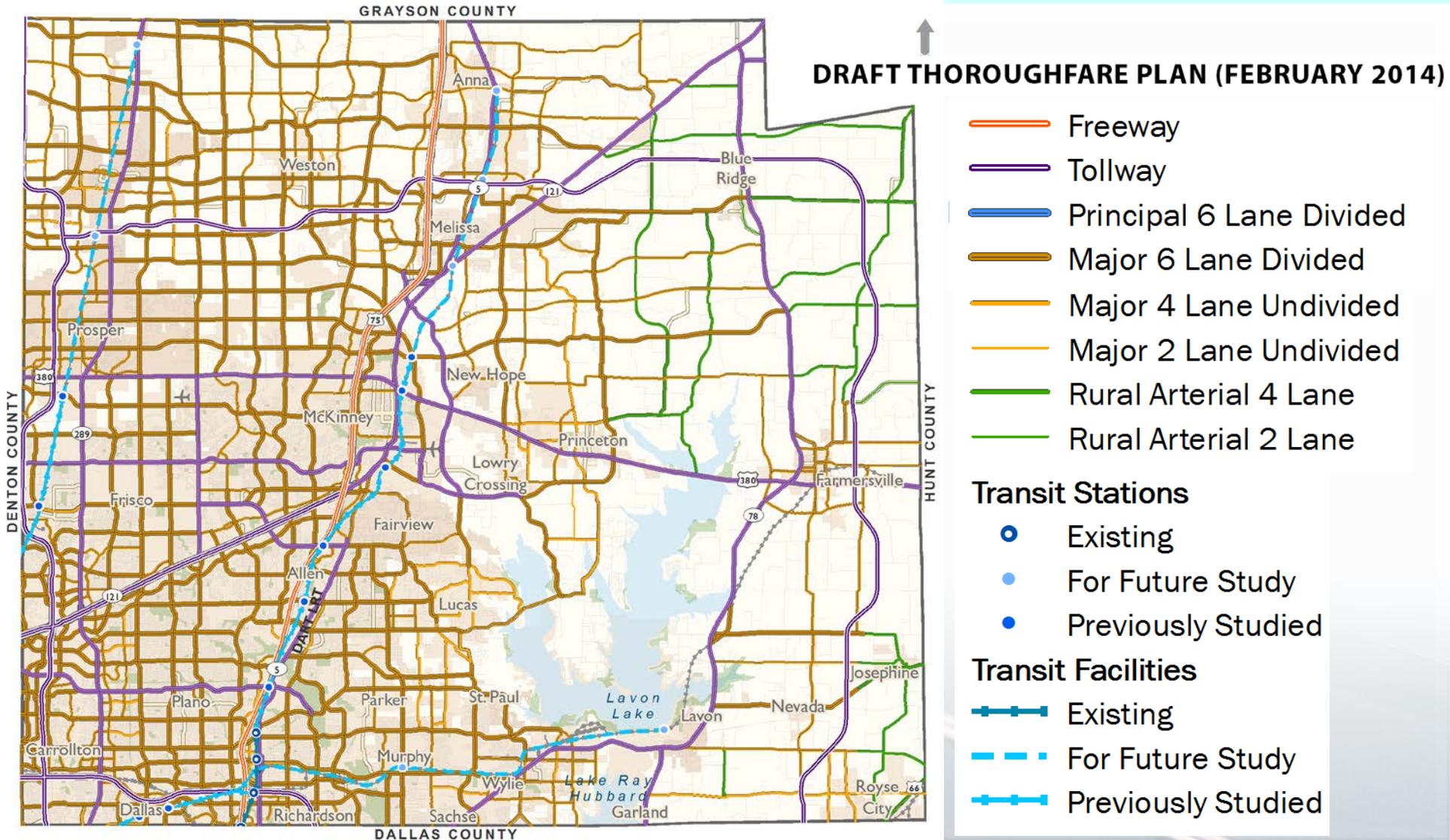
- Existing
- For Future Study
- Previously Studied

Transit Facilities

- Existing
- For Future Study
- Previously Studied



Long Range Thoroughfare and Transit Plan Collin County Mobility Plan



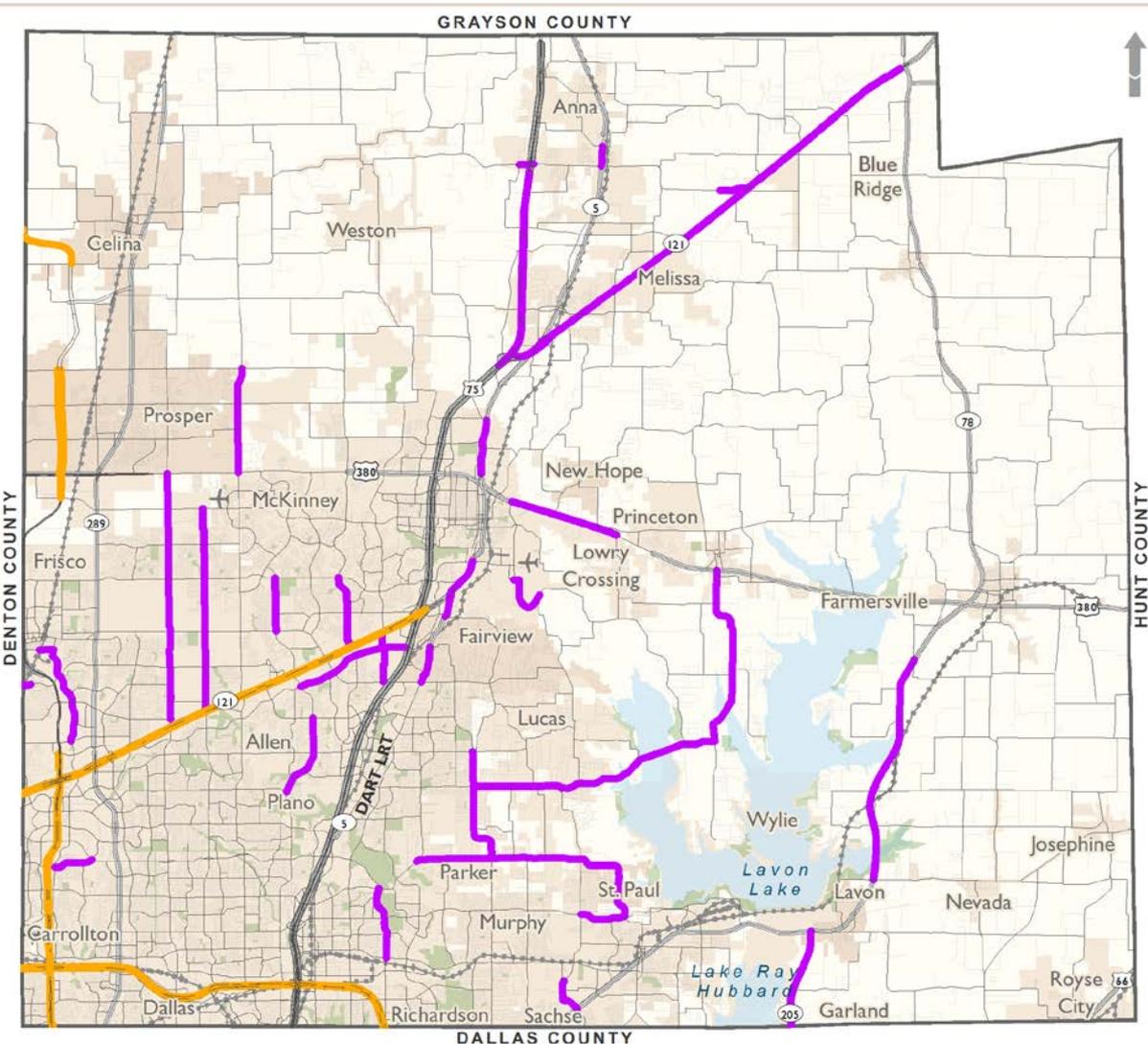


Fiscally Constrained Plan (2020)

- **Projects Needed by 2020** **\$928M**
- **Funding by others** **\$599M**
(Fed, State, TTA)
- **Resulting Funding required** **\$329M**
by County and cities



2020 Roadway Improvement Projects Fiscally Constrained Plan

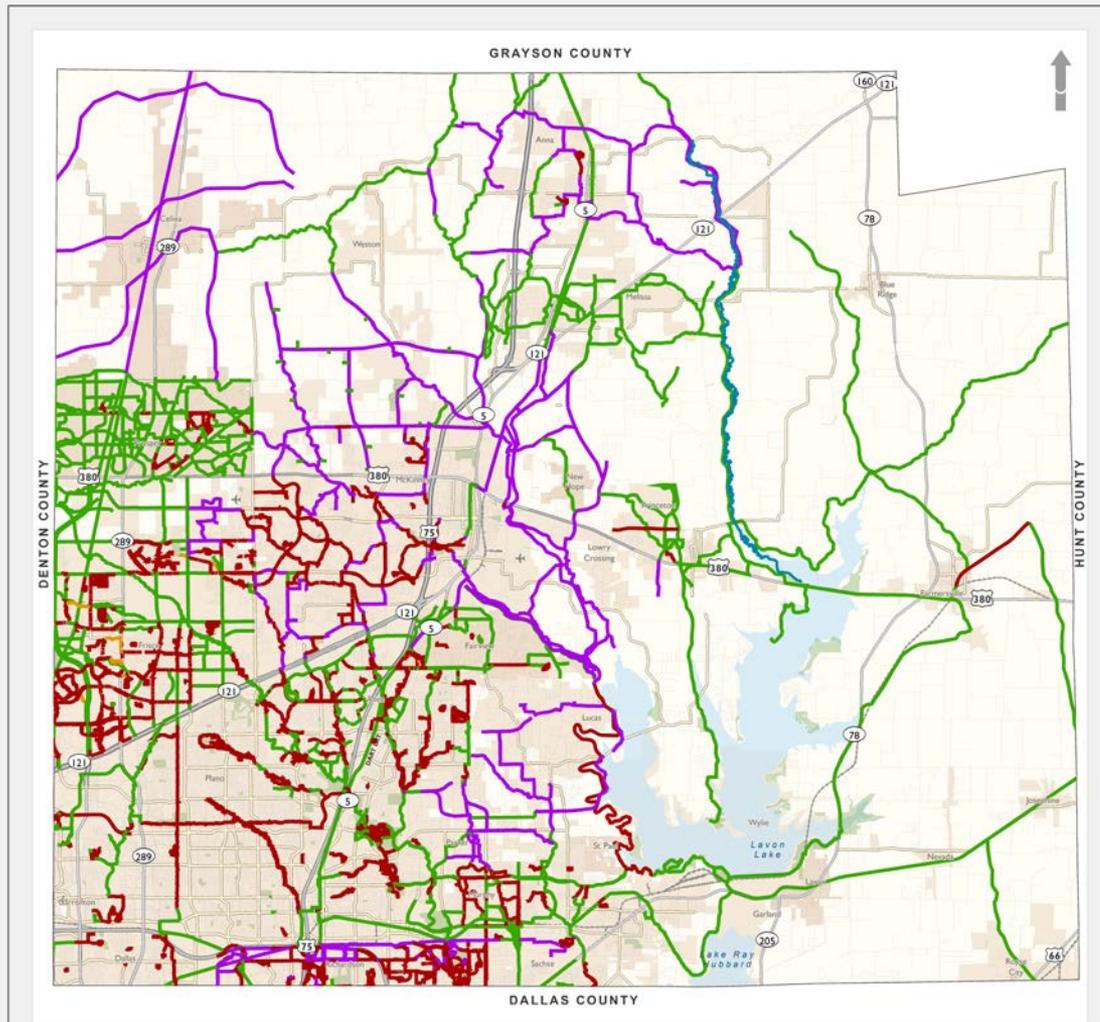


2020 Improvement Projects

- Roads in 2020 Network
- NTTA Projects
- Projects in 2020 Network
- ▭ County Line
- ✈ Airport
- Railroad
- Park
- Water Body



Regional Trails Master Plan Collin County Mobility Plan



COLLIN COUNTY MOBILITY PLAN - 2013 UPDATE
REGIONAL TRAIL PLAN MAP

Regional Trail Plan

- Existing
- Planned
- Programmed
- Proposed
- Paddling Trail

County Line

+ Airport

Railroad

Park

Water Body

Roadway Class

Primary Highway

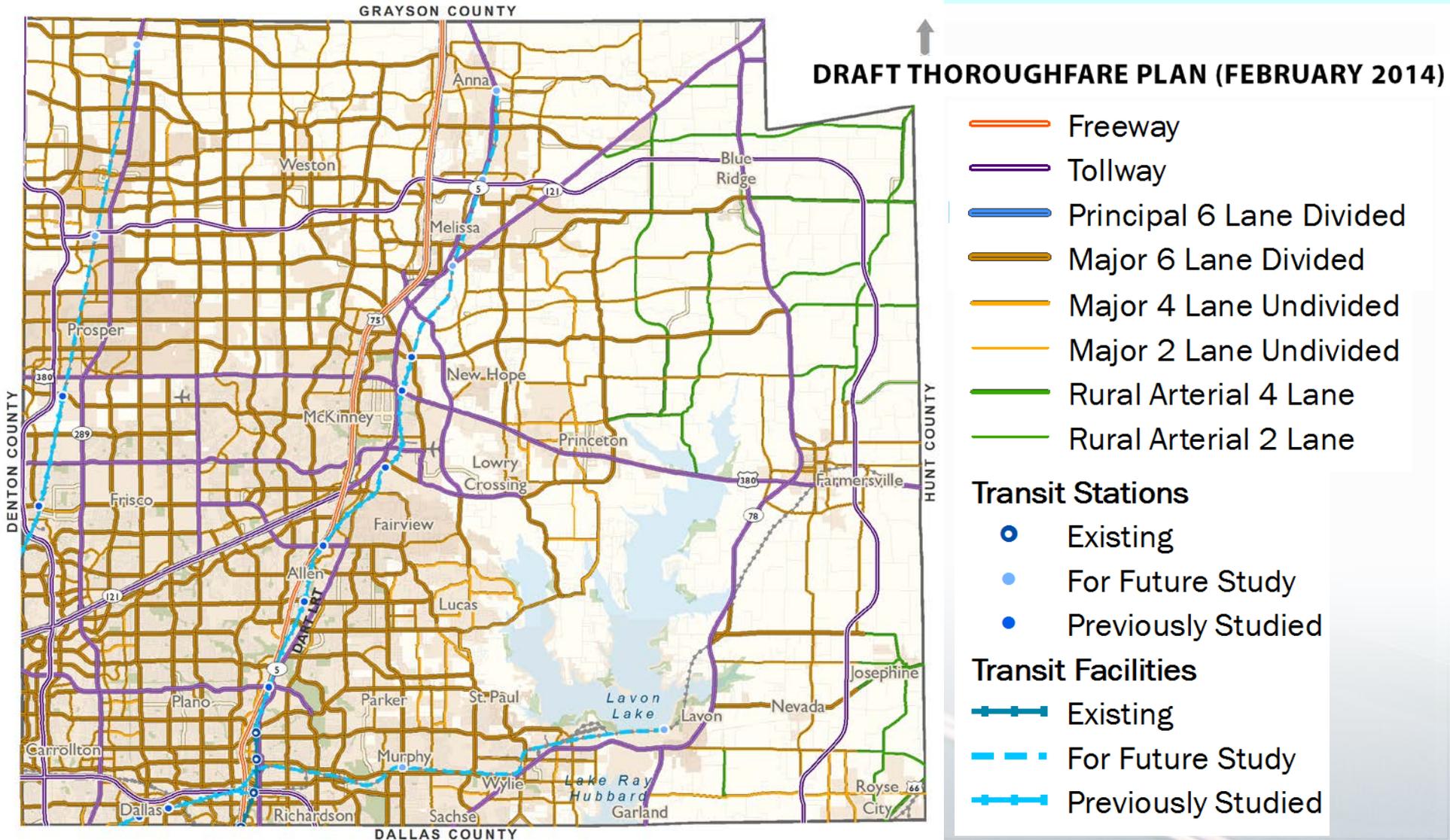
Secondary Highway & Major Arterial

Minor Arterial

Source: Collin County 2012
Regional Trails Master Plan,
Half Associates



Long Range Thoroughfare and Transit Plan Collin County Mobility Plan





COLLIN COUNTY MOBILITY PLAN

2014 UPDATE

Collin County – Engineering Department
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McKinney, TX 75071

www.co.collin.tx.us/engineering/mobility

