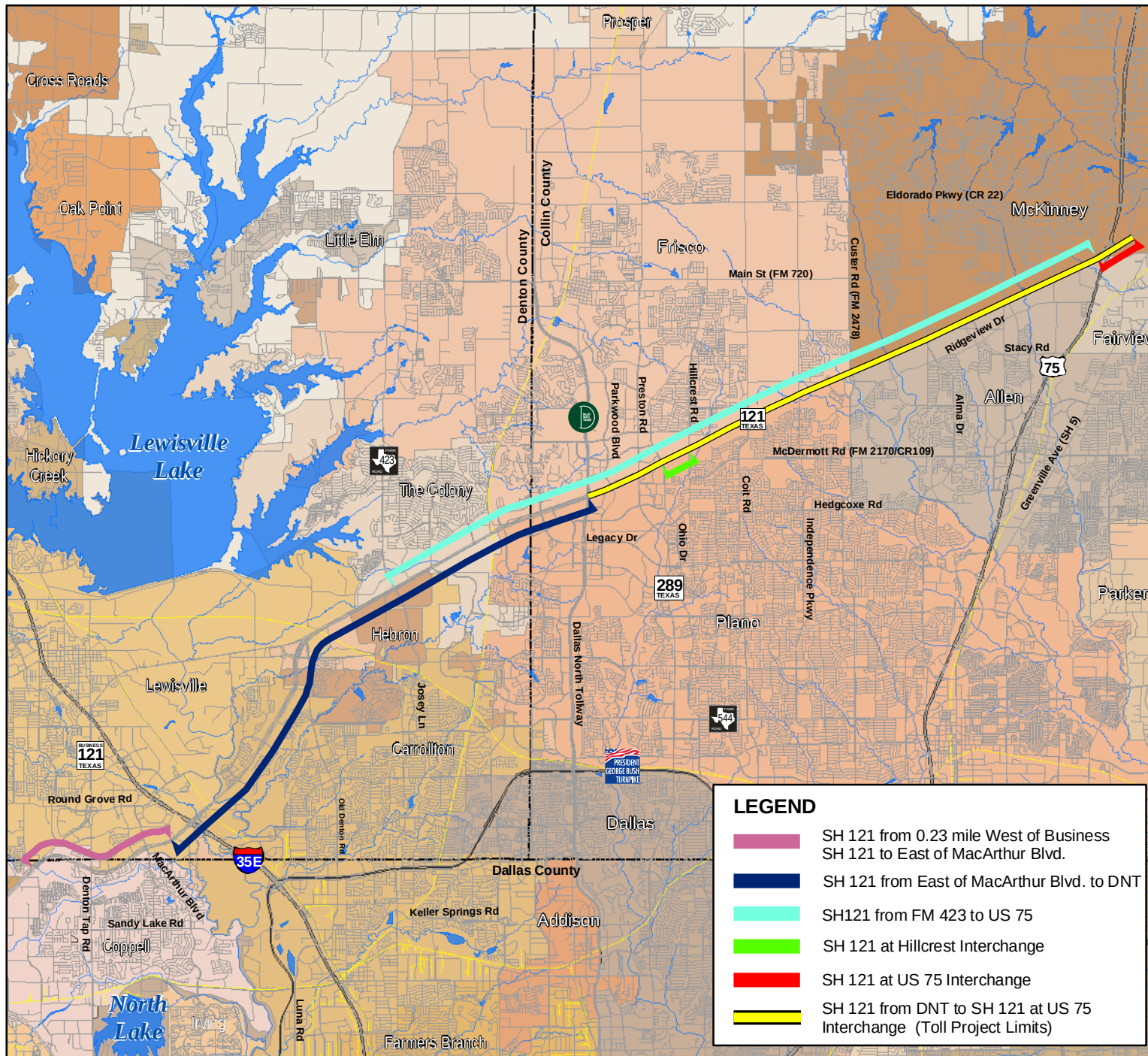


APPENDIX A: Figures

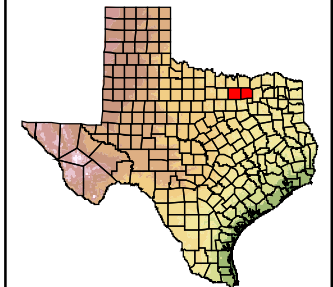
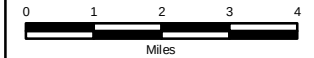


LEGEND

- SH 121 from 0.23 mile West of Business SH 121 to East of MacArthur Blvd.
- SH 121 from East of MacArthur Blvd. to DNT
- SH121 from FM 423 to US 75
- SH 121 at Hillcrest Interchange
- SH 121 at US 75 Interchange
- SH 121 from DNT to SH 121 at US 75 Interchange (Toll Project Limits)



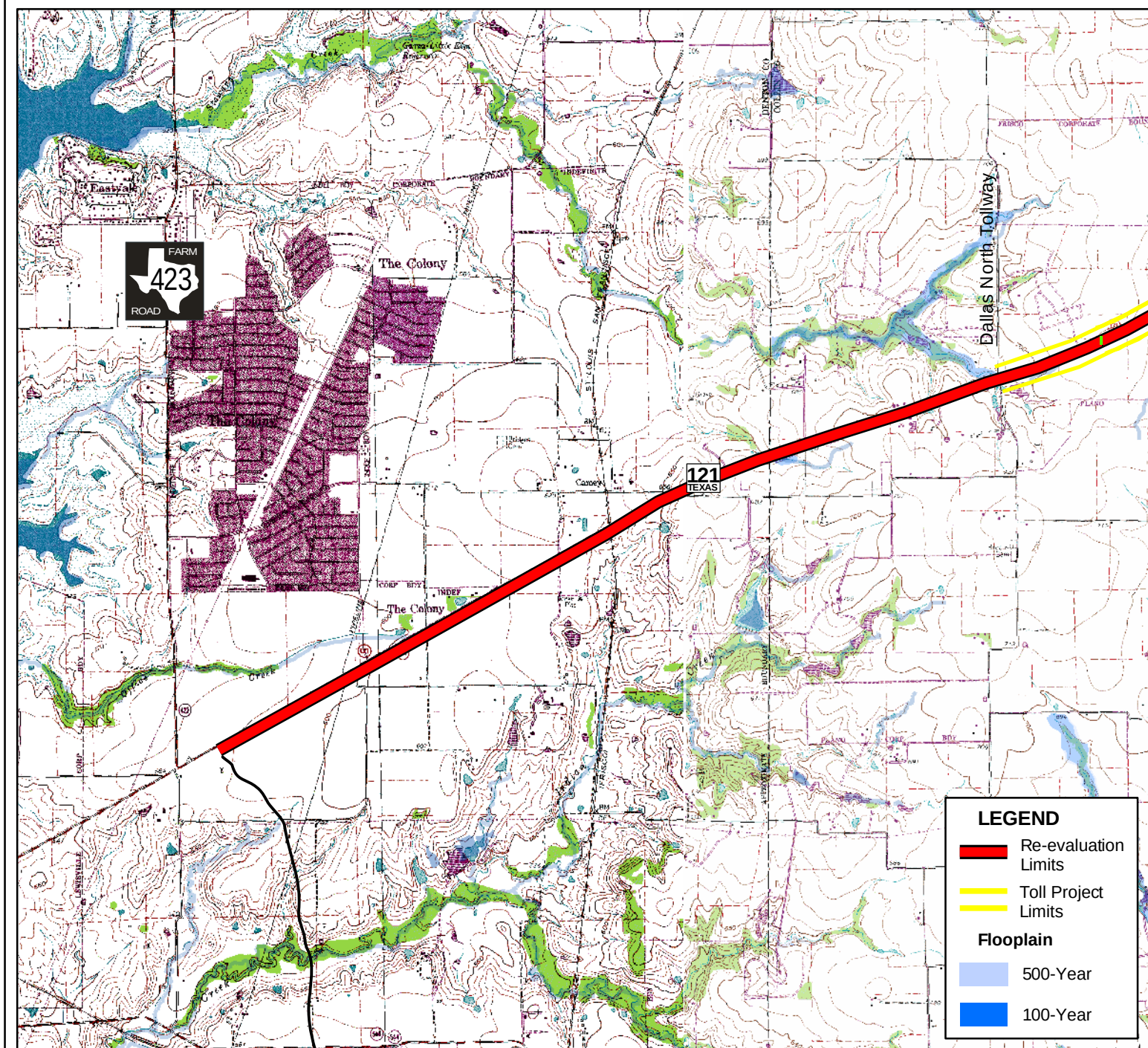
Source: NCTCOG - public roads, highways, rivers, lakes, and city limits.



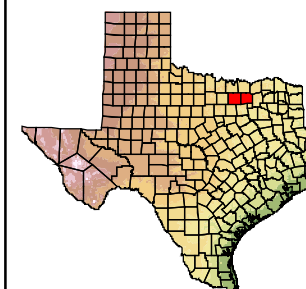
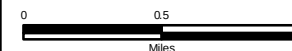
**FIGURE 1:
PROJECT LOCATION MAP**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas



Source: USGS Quadragles - Hebron TX, 1960 (rev.1981), Frisco TX, 1960 (rev.1981), Plano TX, 1960 (rev.1981), McKinney West TX, 1960 (rev.1981); FEMA Q3 Data - Collin county.



LEGEND

- Re-evaluation Limits
- Toll Project Limits

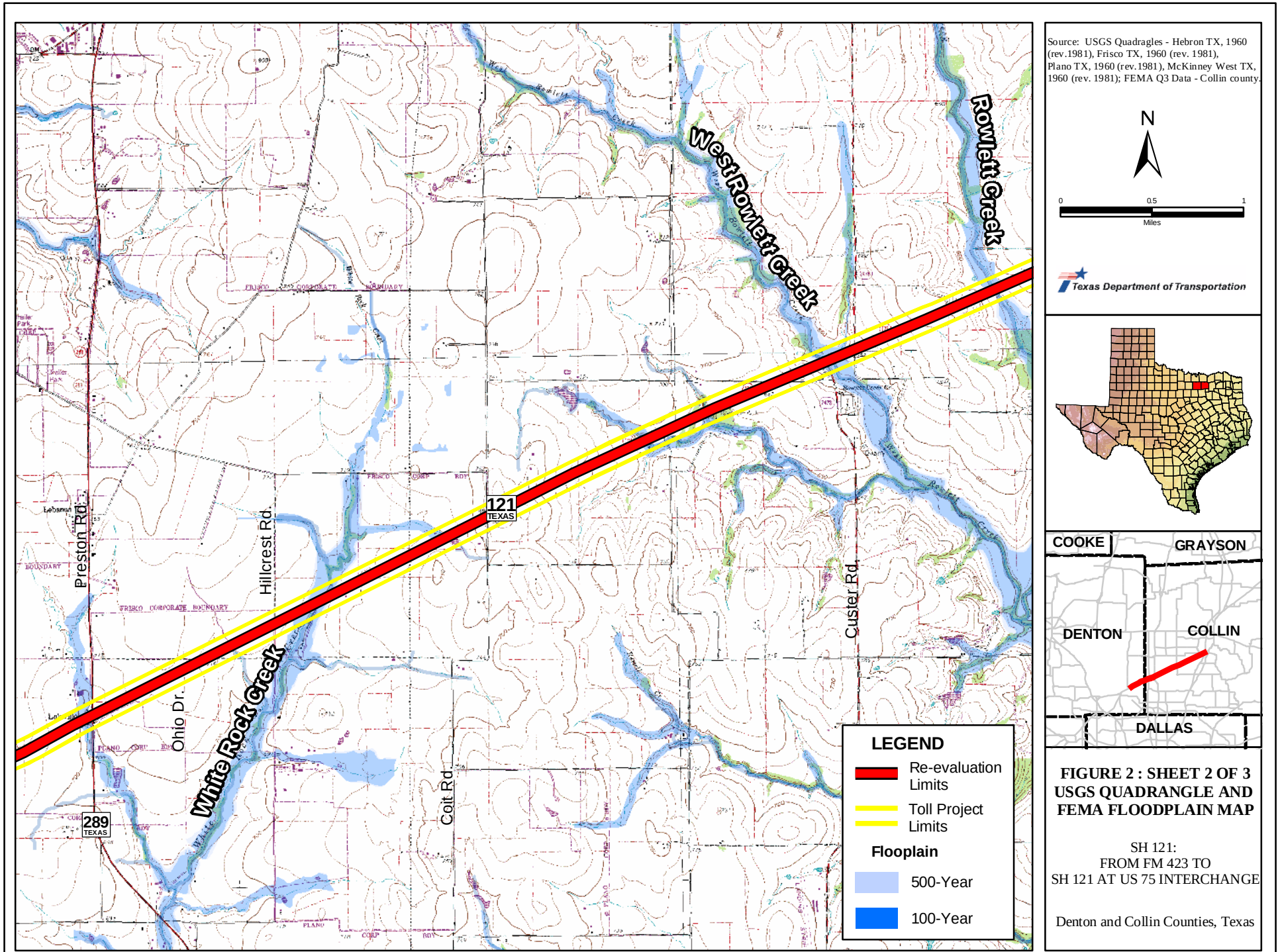
Floodplain

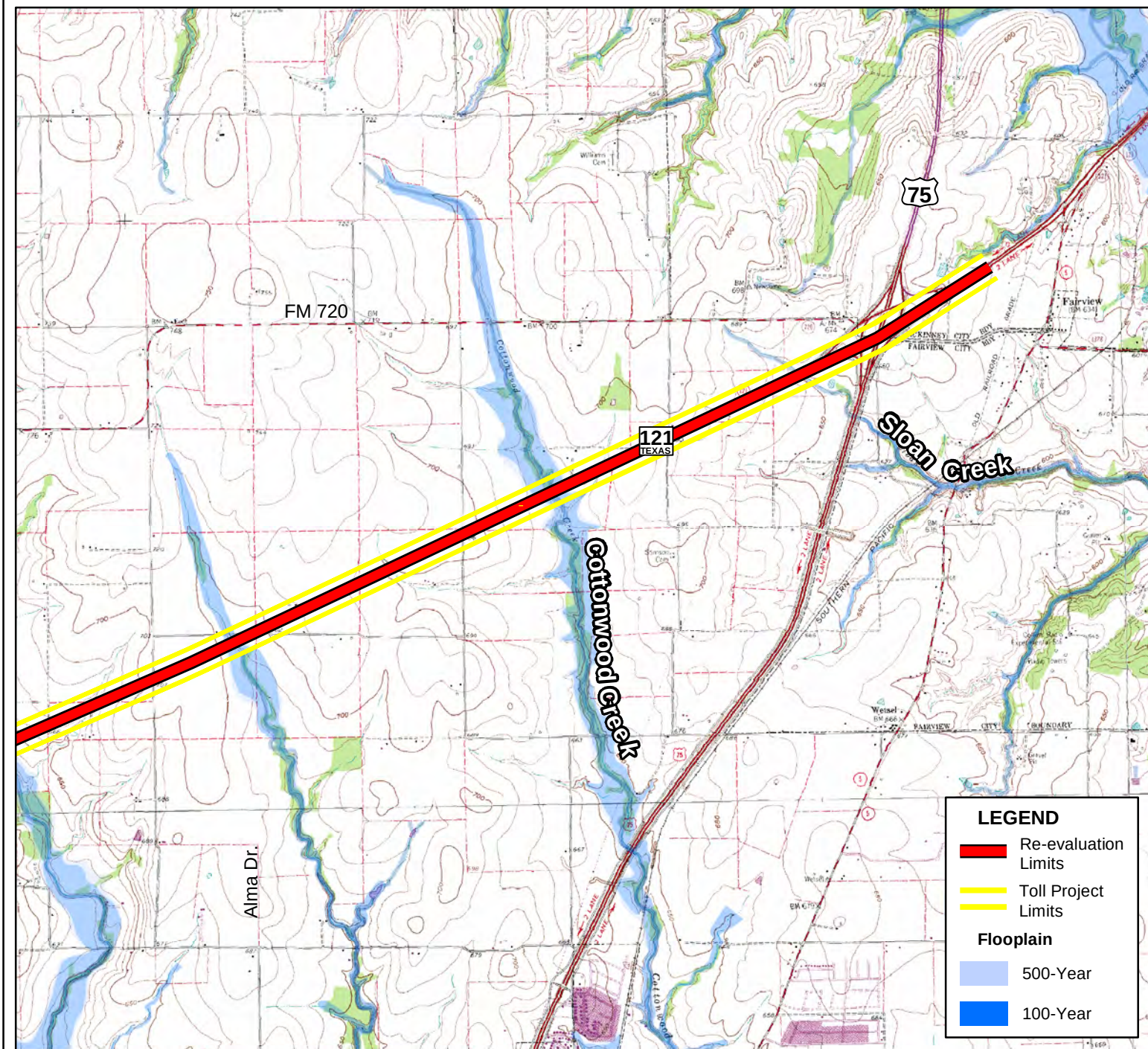
- 500-Year
- 100-Year

**FIGURE 2 : SHEET 1 OF 3
USGS QUADRANGLE MAP
AND FEMA FLOODPLAIN MAP**

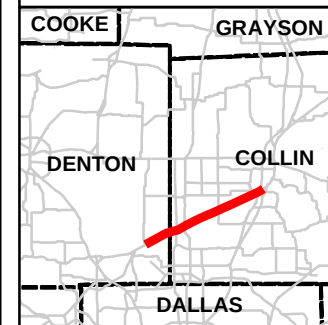
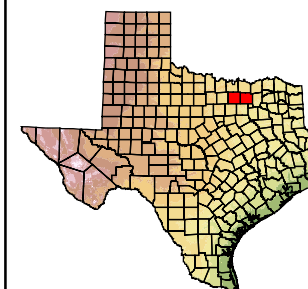
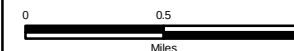
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas





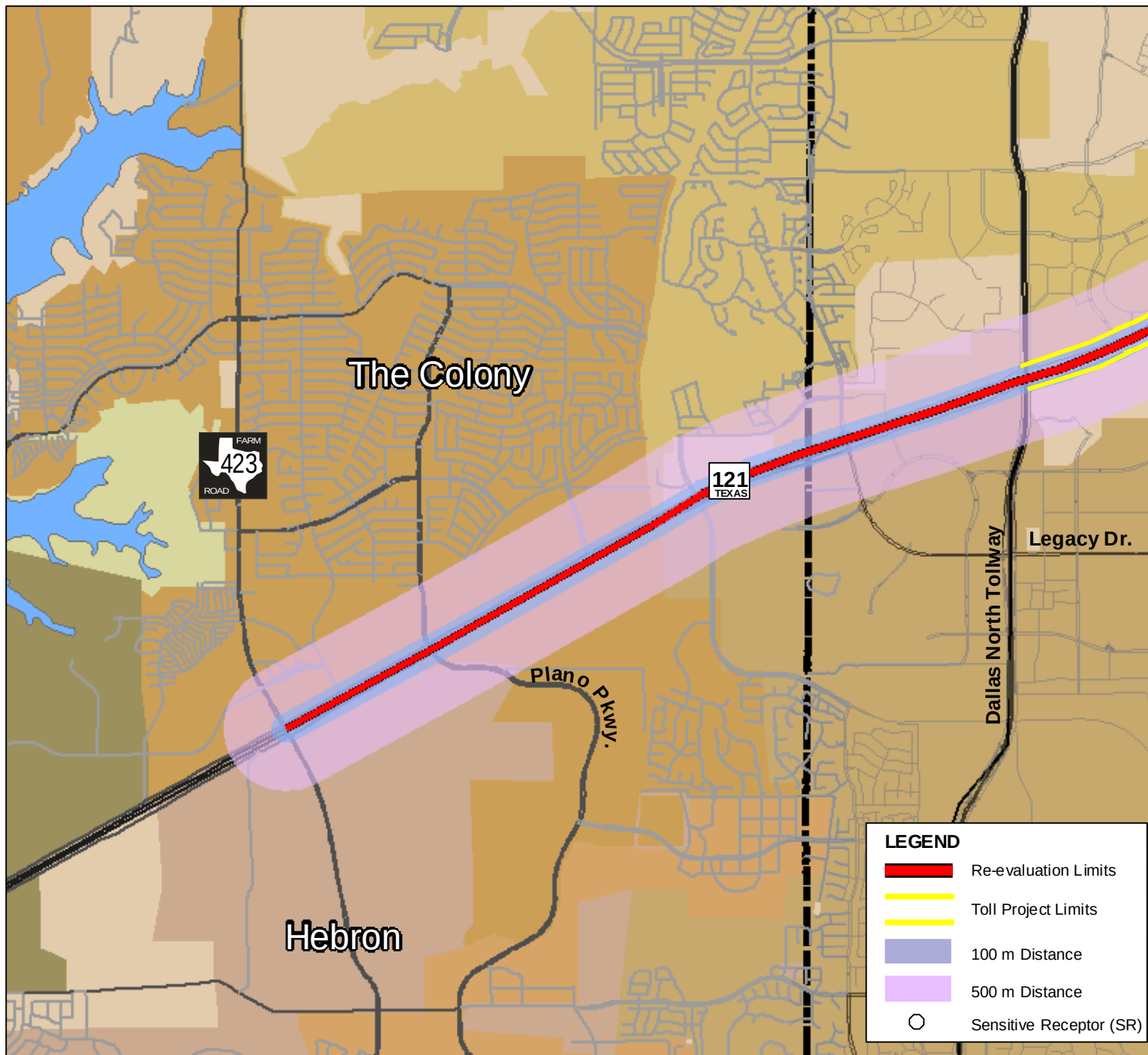
Source: USGS Quadragles - Hebron TX, 1960 (rev.1981), Frisco TX, 1960 (rev. 1981), Plano TX, 1960 (rev.1981), McKinney West TX, 1960 (rev. 1981); FEMA Q3 Data - Collin county.



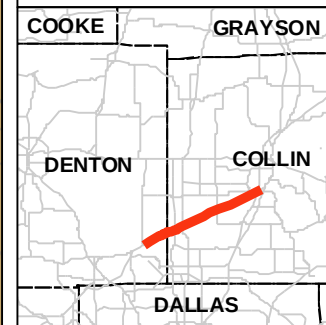
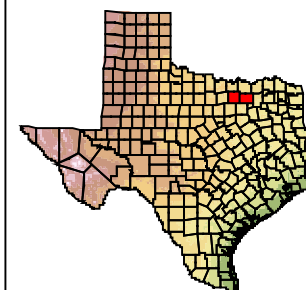
**FIGURE 2 : SHEET 3 OF 3
USGS QUADRANGLE AND
FEMA FLOODPLAIN MAP**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas



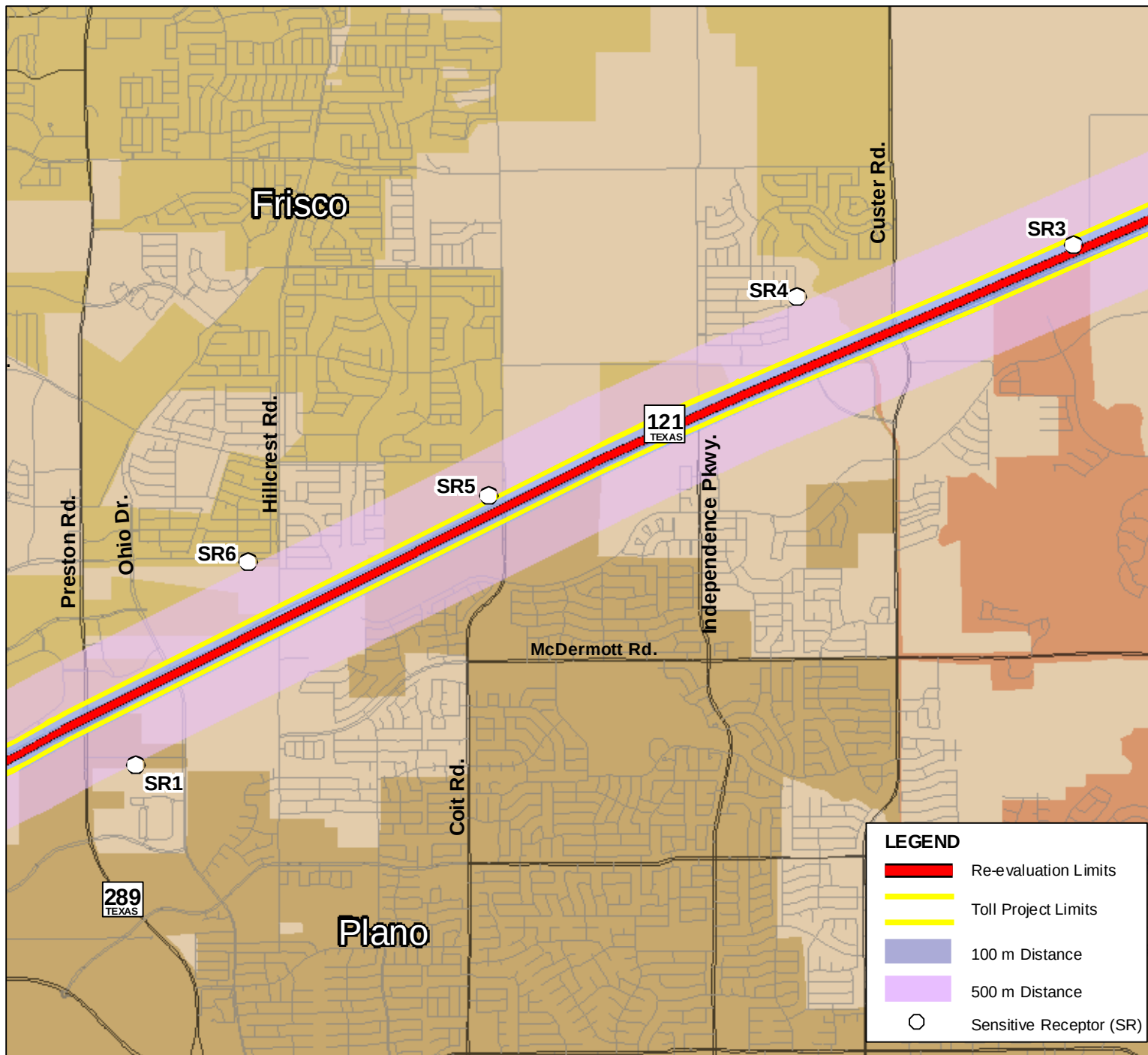
Source: NCTCOG - public roads, highways, lakes, and city limits.



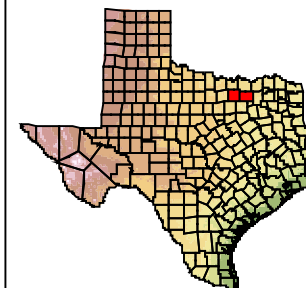
**FIGURE 3: SHEET 1 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
SENSITIVE RECEPTORS**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas



Source: NCTCOG - public roads, highways, lakes, and city limits.



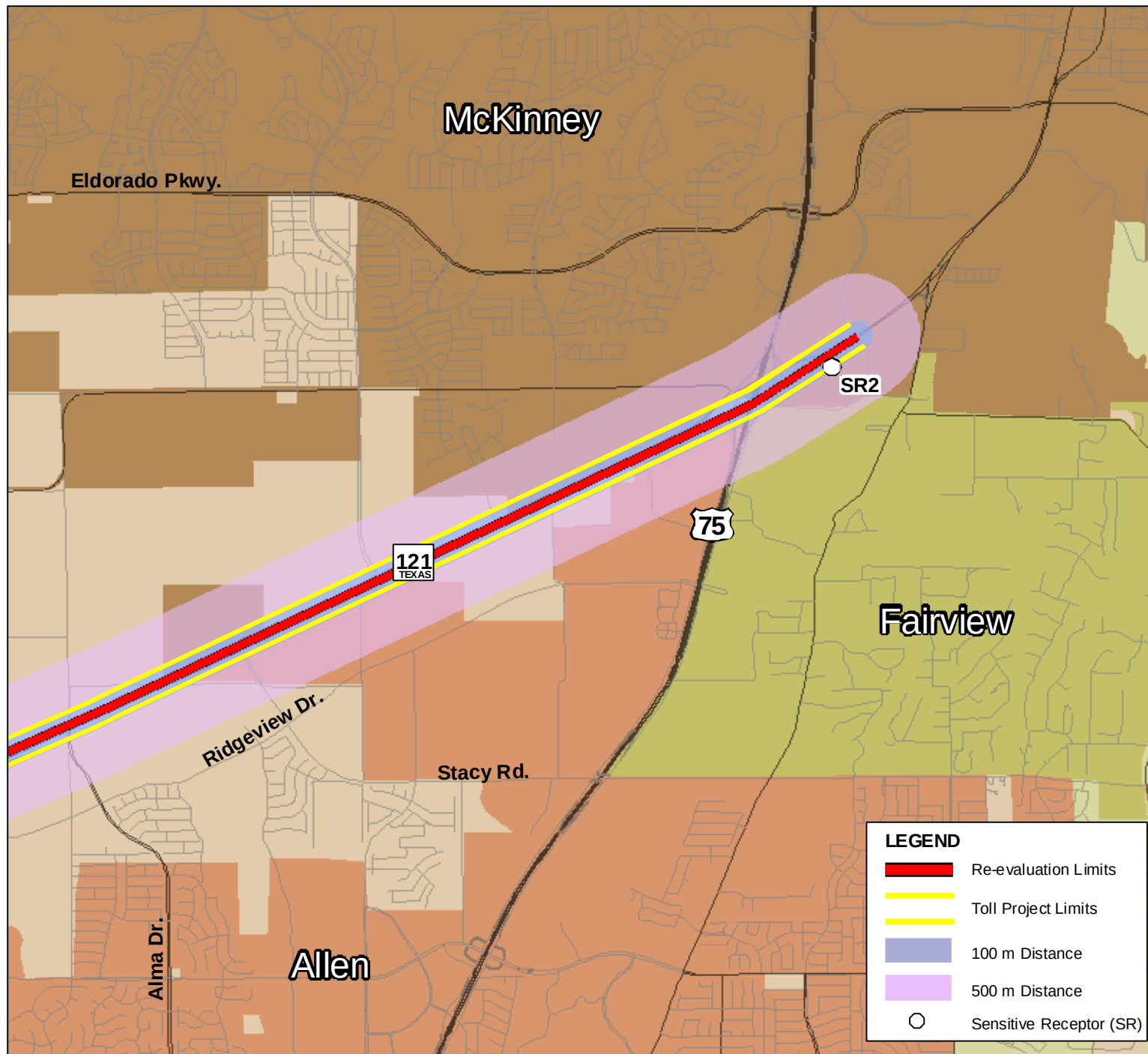
LEGEND

- Re-evaluation Limits
- Toll Project Limits
- 100 m Distance
- 500 m Distance
- Sensitive Receptor (SR)

**FIGURE 3: SHEET 2 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
SENSITIVE RECEPTORS**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas



LEGEND

- Re-evaluation Limits
- Toll Project Limits
- 100 m Distance
- 500 m Distance
- Sensitive Receptor (SR)

N

Source: NCTCOG - public roads, highways, lakes, and city limits.

0 0.25 0.5 0.75 1
Miles

Texas Department of Transportation

COOKE GRAYSON
DENTON COLLIN
DALLAS

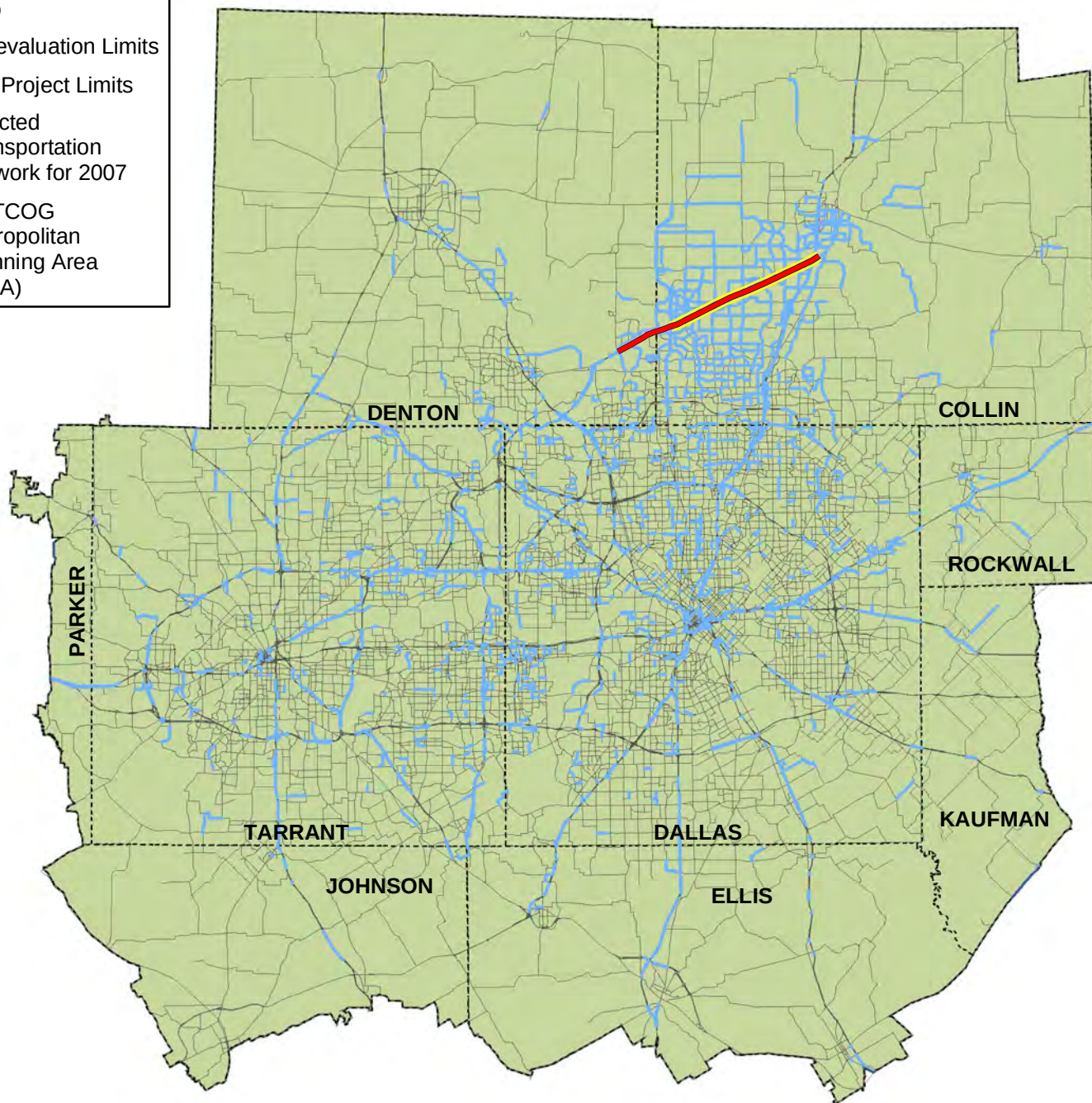
**FIGURE 3: SHEET 3 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
SENSITIVE RECEPTORS**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

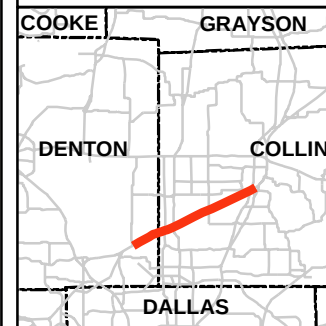
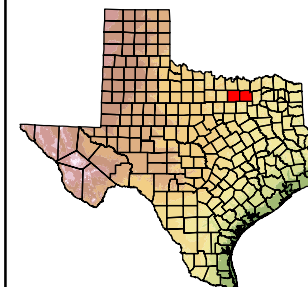
Denton and Collin Counties, Texas

LEGEND

- Re-evaluation Limits
- Toll Project Limits
- Affected Transportation Network for 2007
- NCTCOG Metropolitan Planning Area (MPA)



Source: NCTCOG GIS data and
2007 Traffic Network

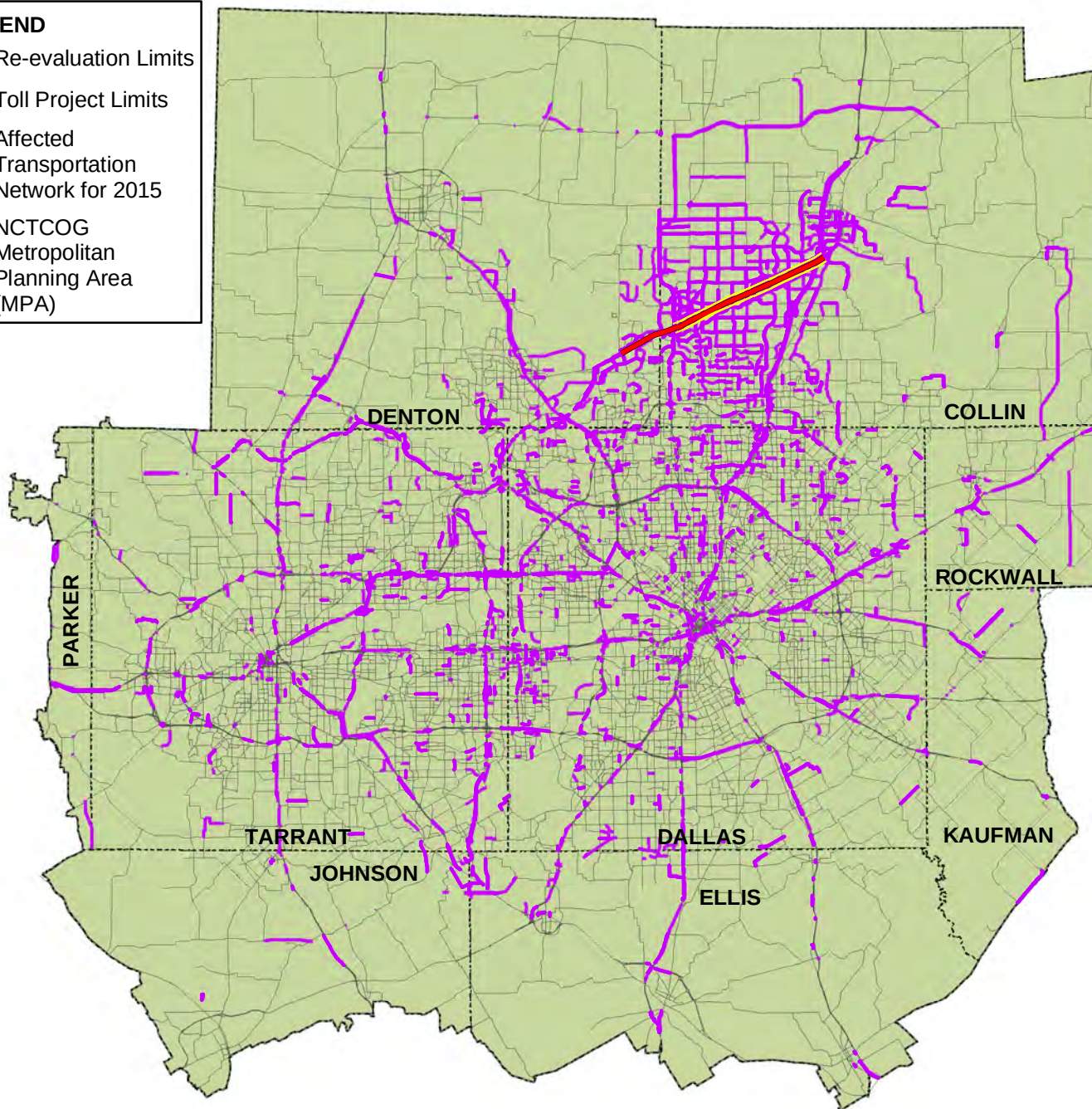


**FIGURE 4: SHEET 1 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
AFFECTED
TRANSPORTATION
NETWORK (YR 2007)**

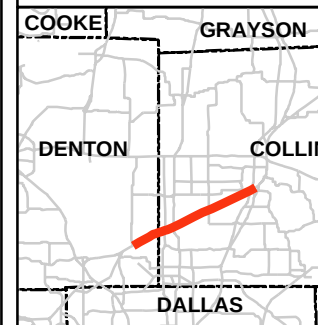
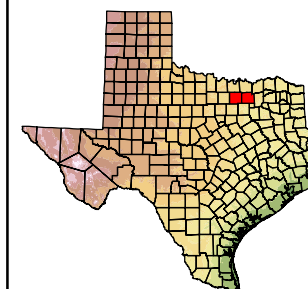
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE
Denton and Collin Counties, Texas

LEGEND

- Re-evaluation Limits
- Toll Project Limits
- Affected Transportation Network for 2015
- NCTCOG Metropolitan Planning Area (MPA)



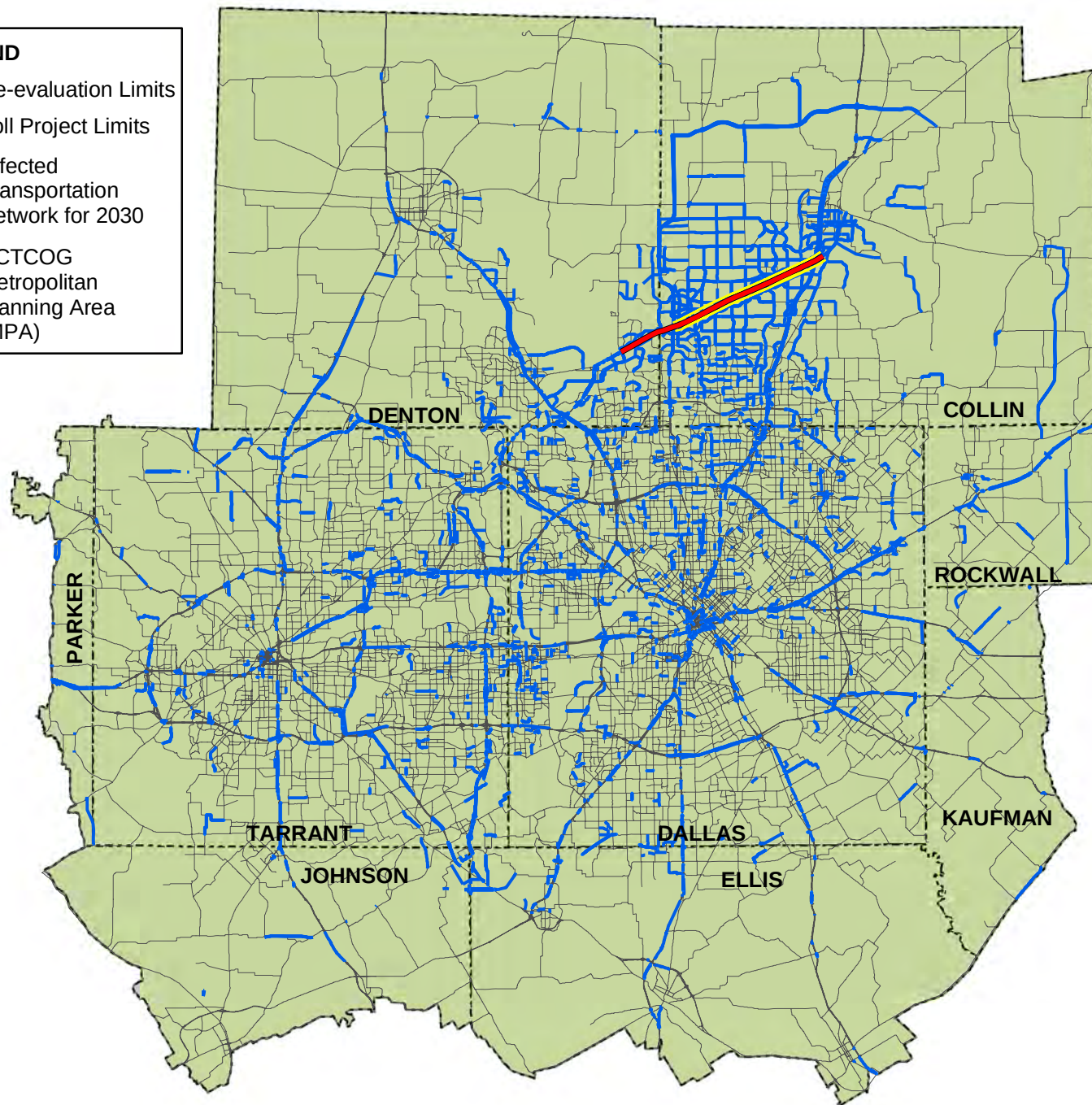
Source: NCTCOG GIS data and 2015 Traffic Network



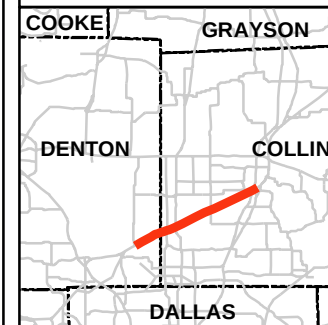
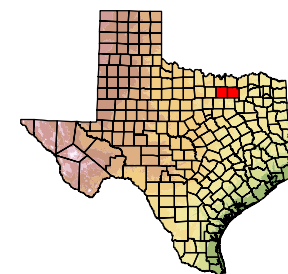
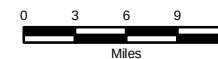
**FIGURE 4: SHEET 2 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
AFFECTED
TRANSPORTATION
NETWORK (YR 2015)**
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE
Denton and Collin Counties, Texas

LEGEND

- Re-evaluation Limits
- Toll Project Limits
- Affected Transportation Network for 2030
- NCTCOG Metropolitan Planning Area (MPA)

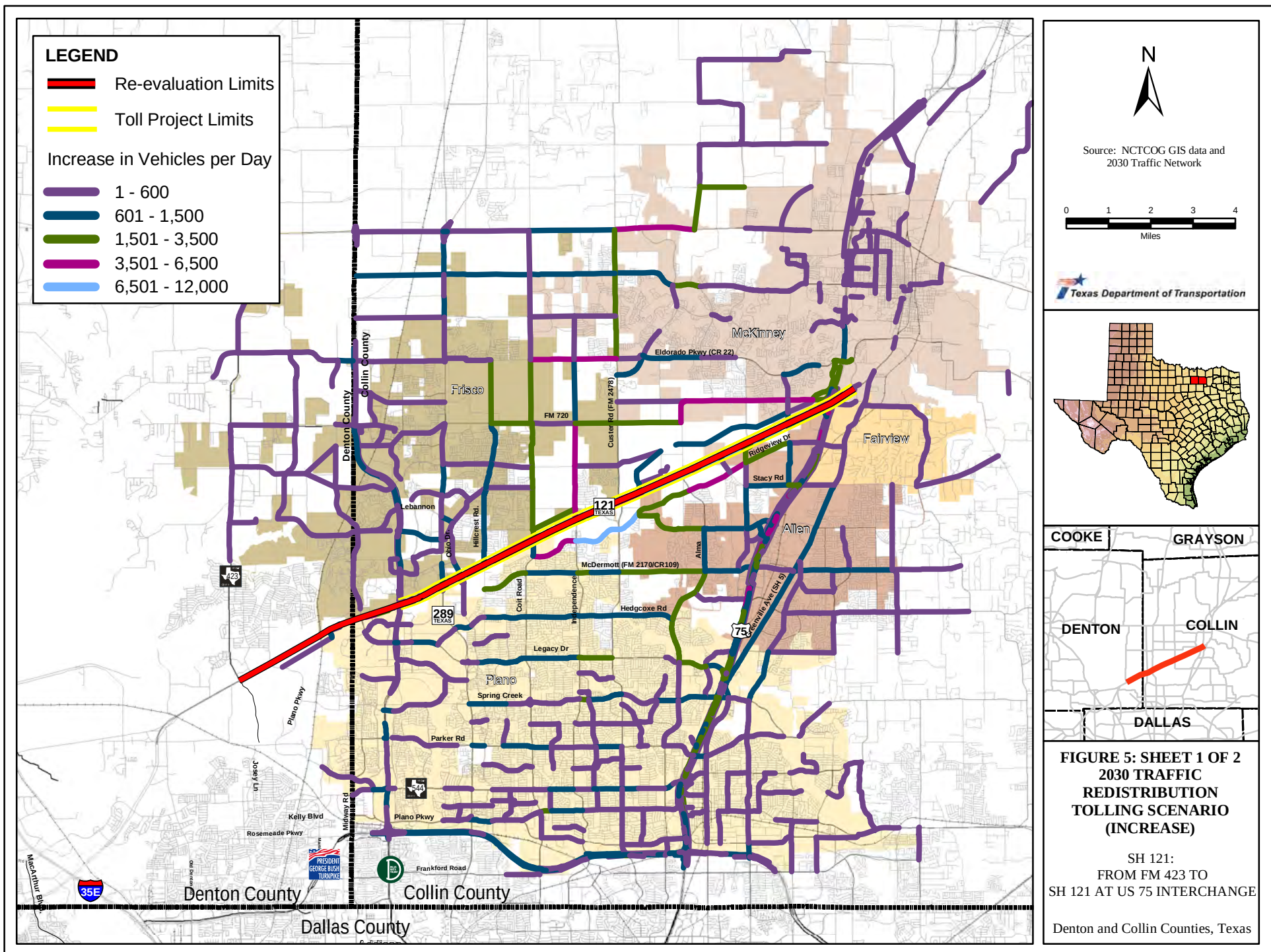


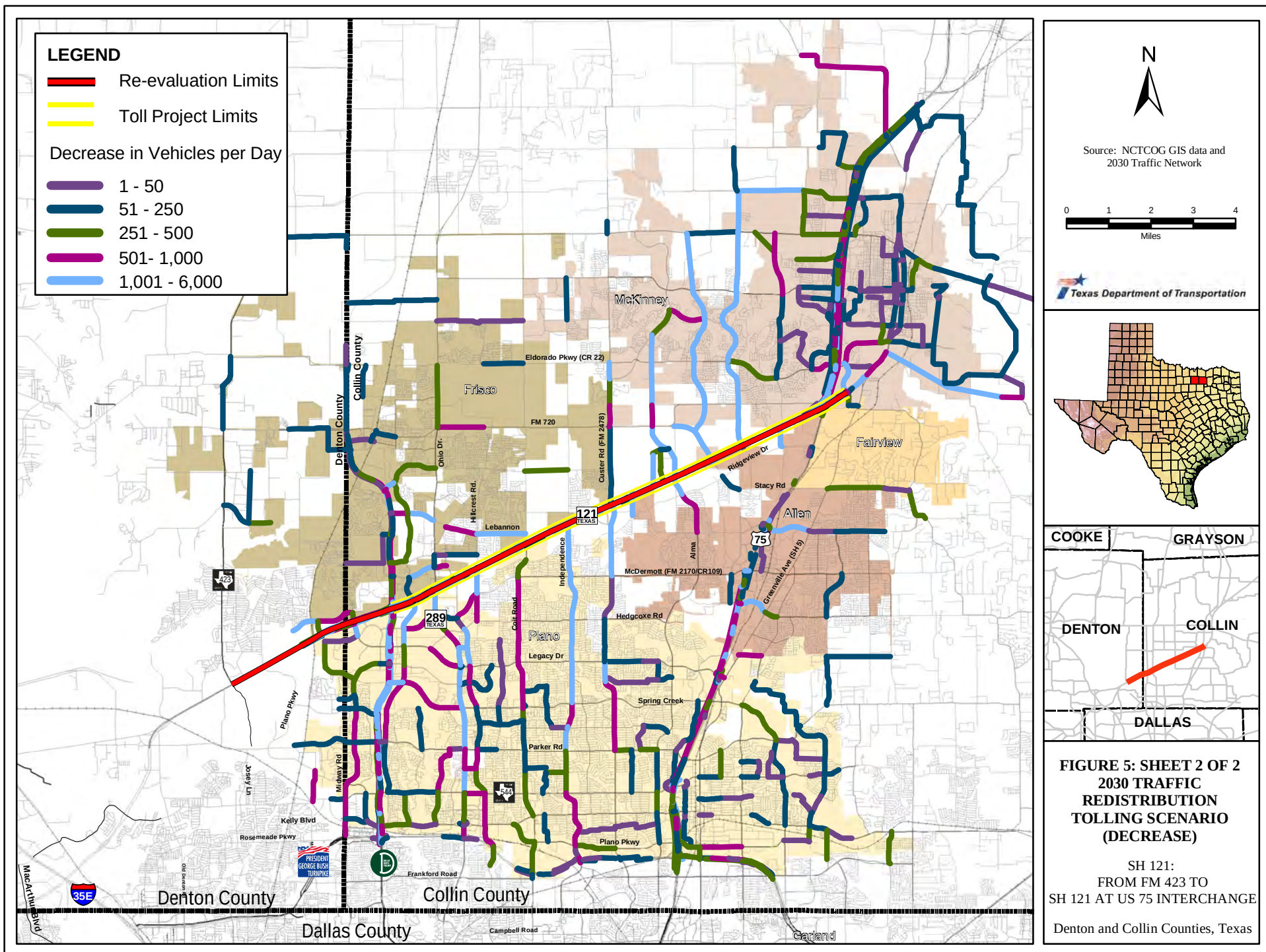
Source: NCTCOG GIS data and
2030 Traffic Network

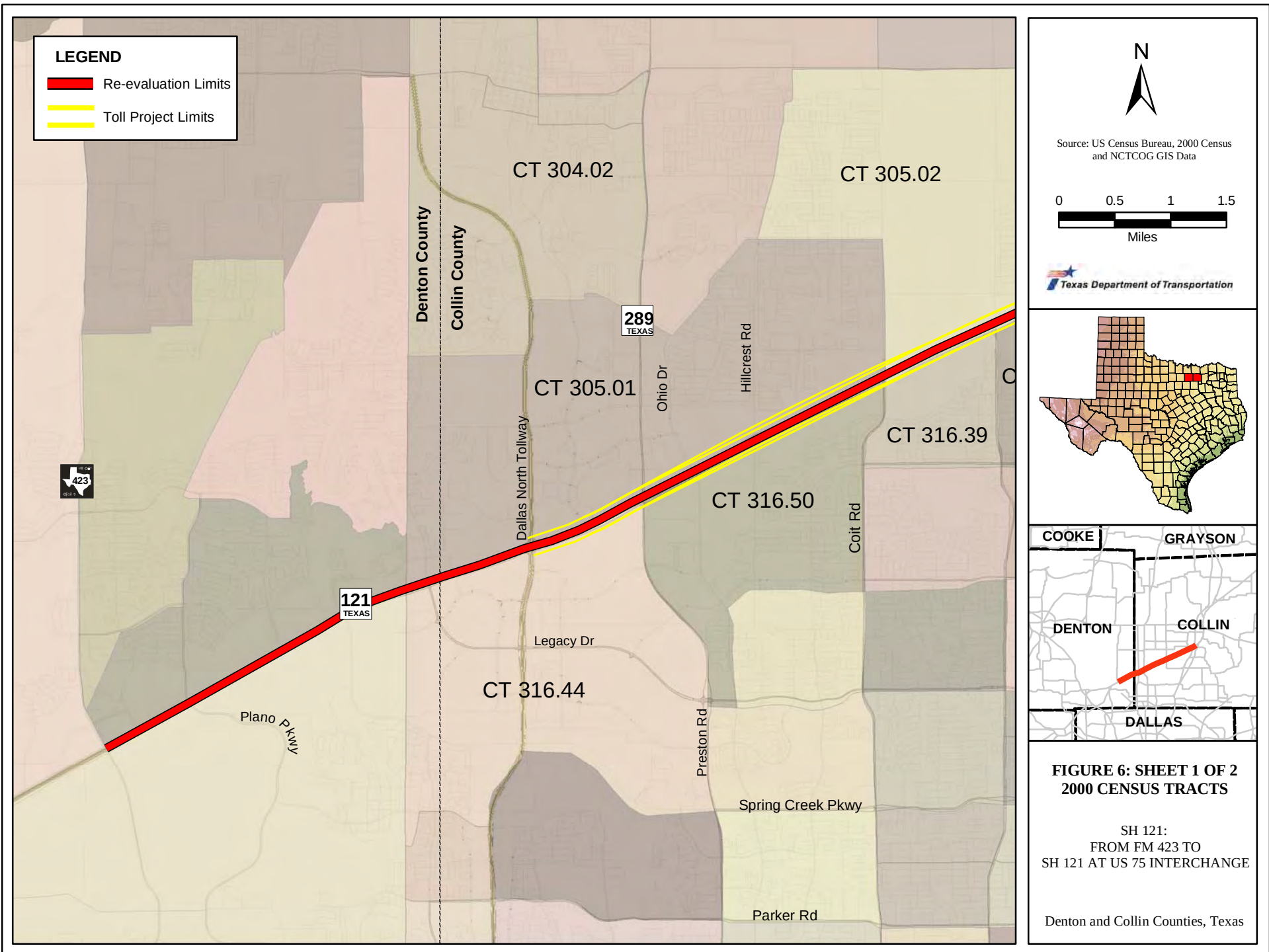


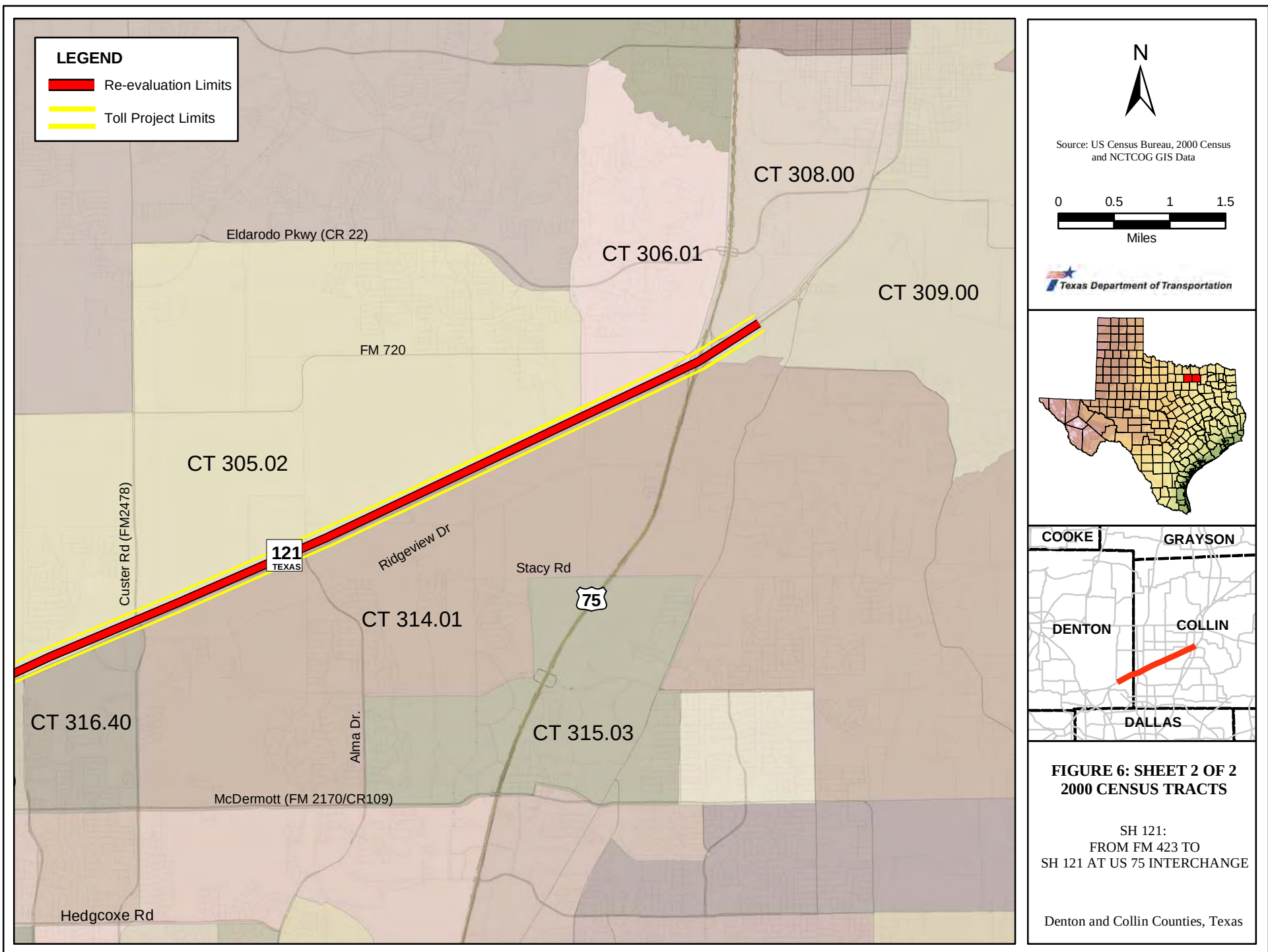
**FIGURE 4: SHEET 3 OF 3
MOBILE SOURCE AIR
TOXICS (MSAT)
AFFECTED
TRANSPORTATION
NETWORK (YR 2030)**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE
Denton and Collin Counties, Texas



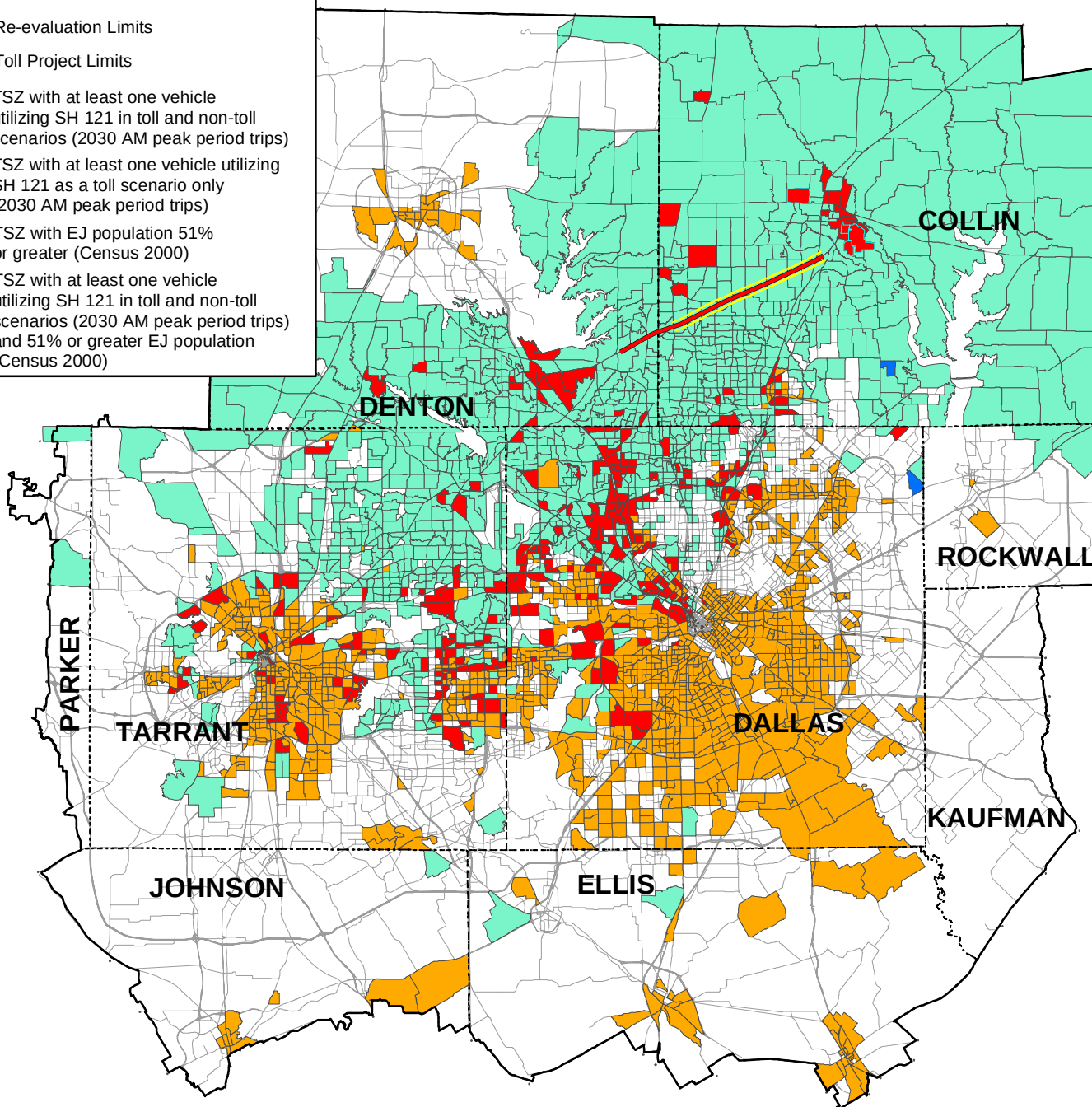




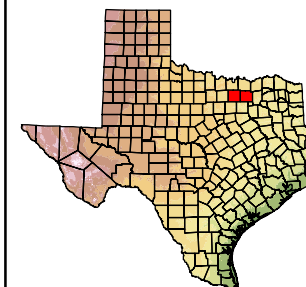


LEGEND

- Re-evaluation Limits
- Toll Project Limits
- TSZ with at least one vehicle utilizing SH 121 in toll and non-toll scenarios (2030 AM peak period trips)
- TSZ with at least one vehicle utilizing SH 121 as a toll scenario only (2030 AM peak period trips)
- TSZ with EJ population 51% or greater (Census 2000)
- TSZ with at least one vehicle utilizing SH 121 in toll and non-toll scenarios (2030 AM peak period trips) and 51% or greater EJ population (Census 2000)



Source: NCTCOG GIS, TSZ & Origin Destination Data



**FIGURE 7:
TRAFFIC SERIAL
ZONES (TSZ) &
ENVIRONMENTAL JUSTICE
(EJ) POPULATIONS**

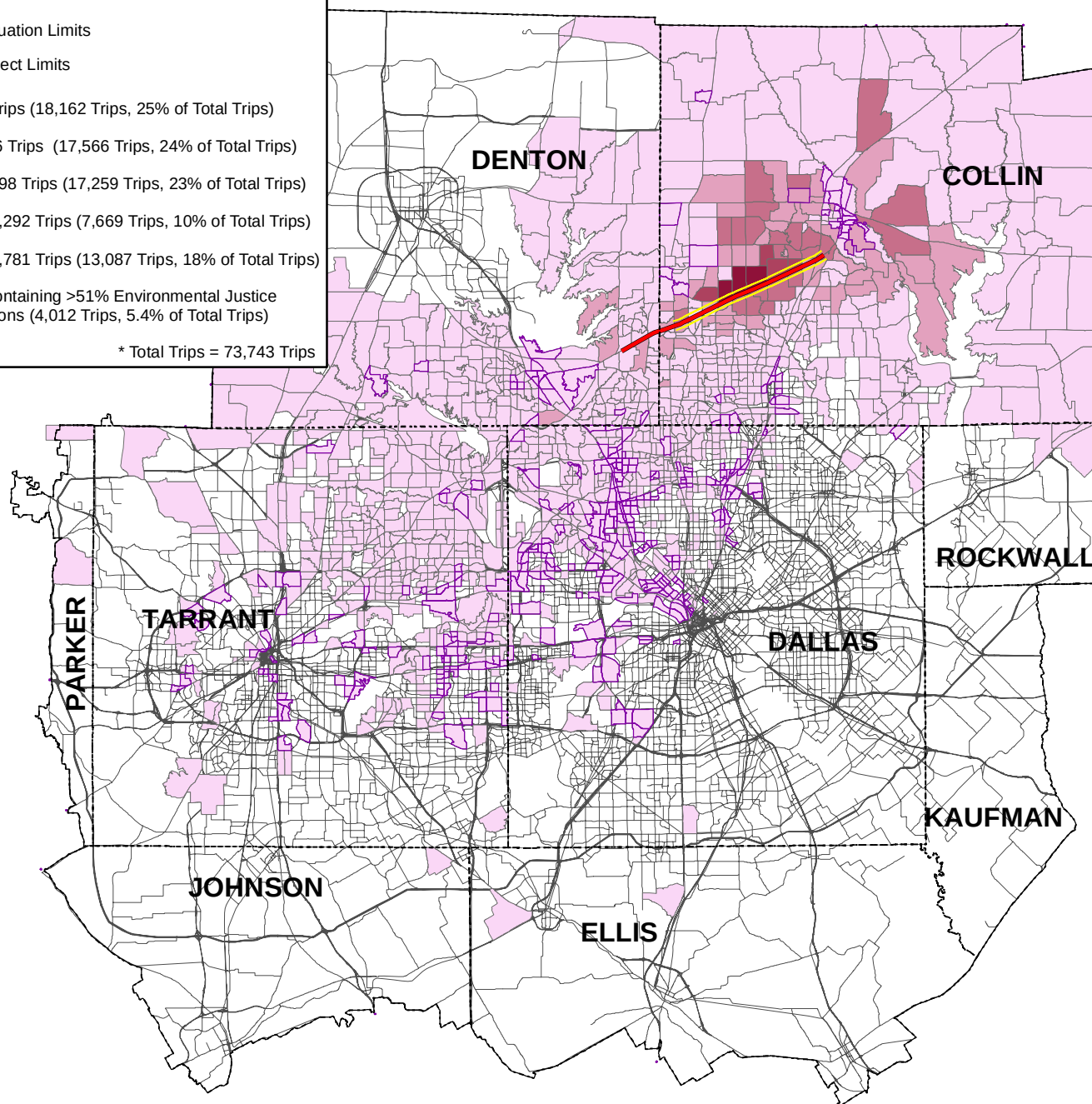
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas

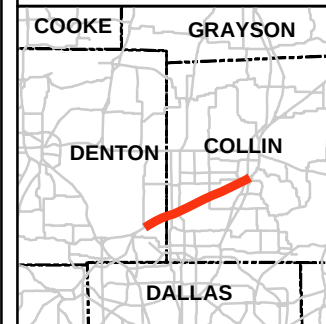
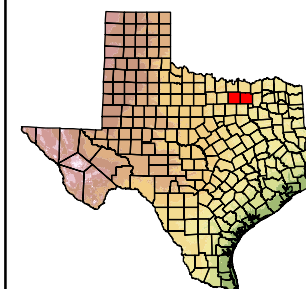
LEGEND

- Re-evaluation Limits
- Toll Project Limits
- 1 - 149 Trips (18,162 Trips, 25% of Total Trips)
- 150 - 496 Trips (17,566 Trips, 24% of Total Trips)
- 497 - 1,098 Trips (17,259 Trips, 23% of Total Trips)
- 1,099 - 2,292 Trips (7,669 Trips, 10% of Total Trips)
- 2,293 - 5,781 Trips (13,087 Trips, 18% of Total Trips)
- TSZs Containing >51% Environmental Justice Populations (4,012 Trips, 5.4% of Total Trips)

* Total Trips = 73,743 Trips



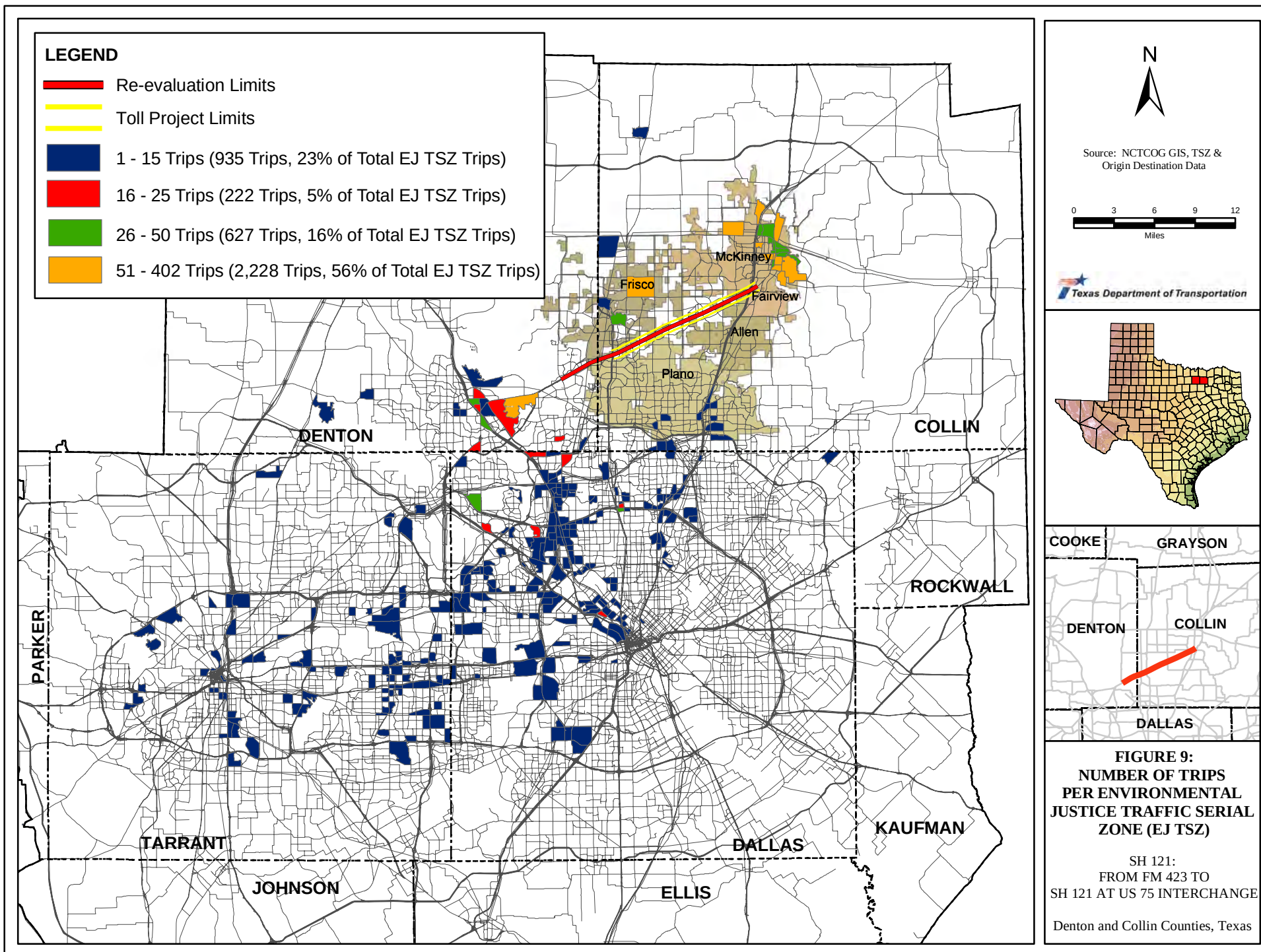
Source: NCTCOG GIS, TSZ, & Origin Destination Data

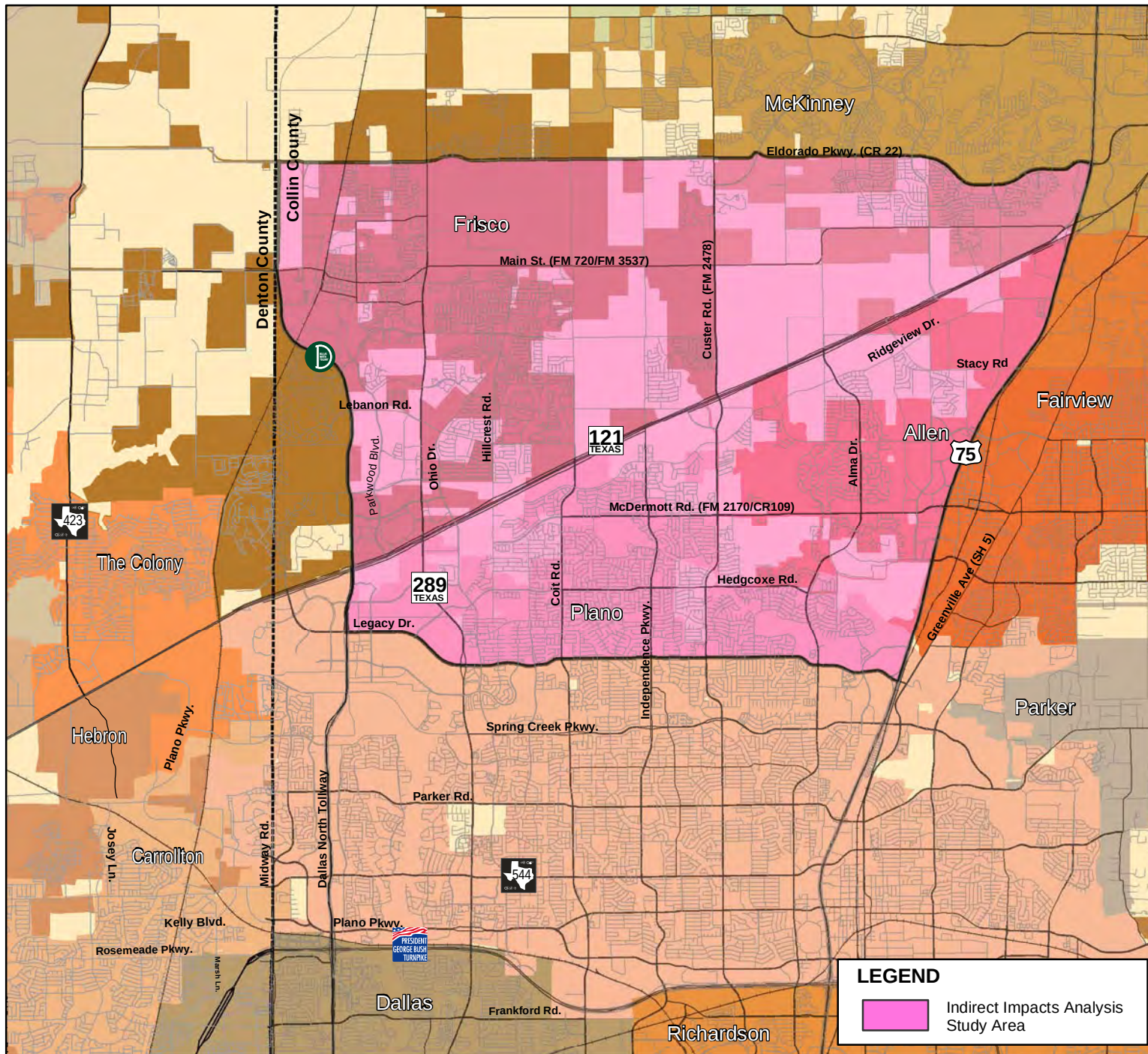


**FIGURE 8:
TRAFFIC SERIAL ZONES
(TSZ) NUMBER OF TRIPS
FOR THE TOLL SCENARIO
(2030 AM Peak)**

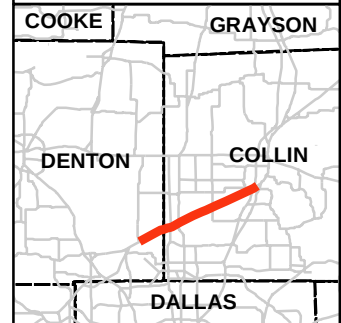
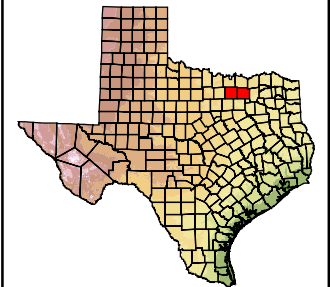
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas





Source: NCTCOG - public roads, highways, and city limits.



**FIGURE 10:
INDIRECT IMPACTS
ANALYSIS STUDY AREA**

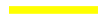
SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

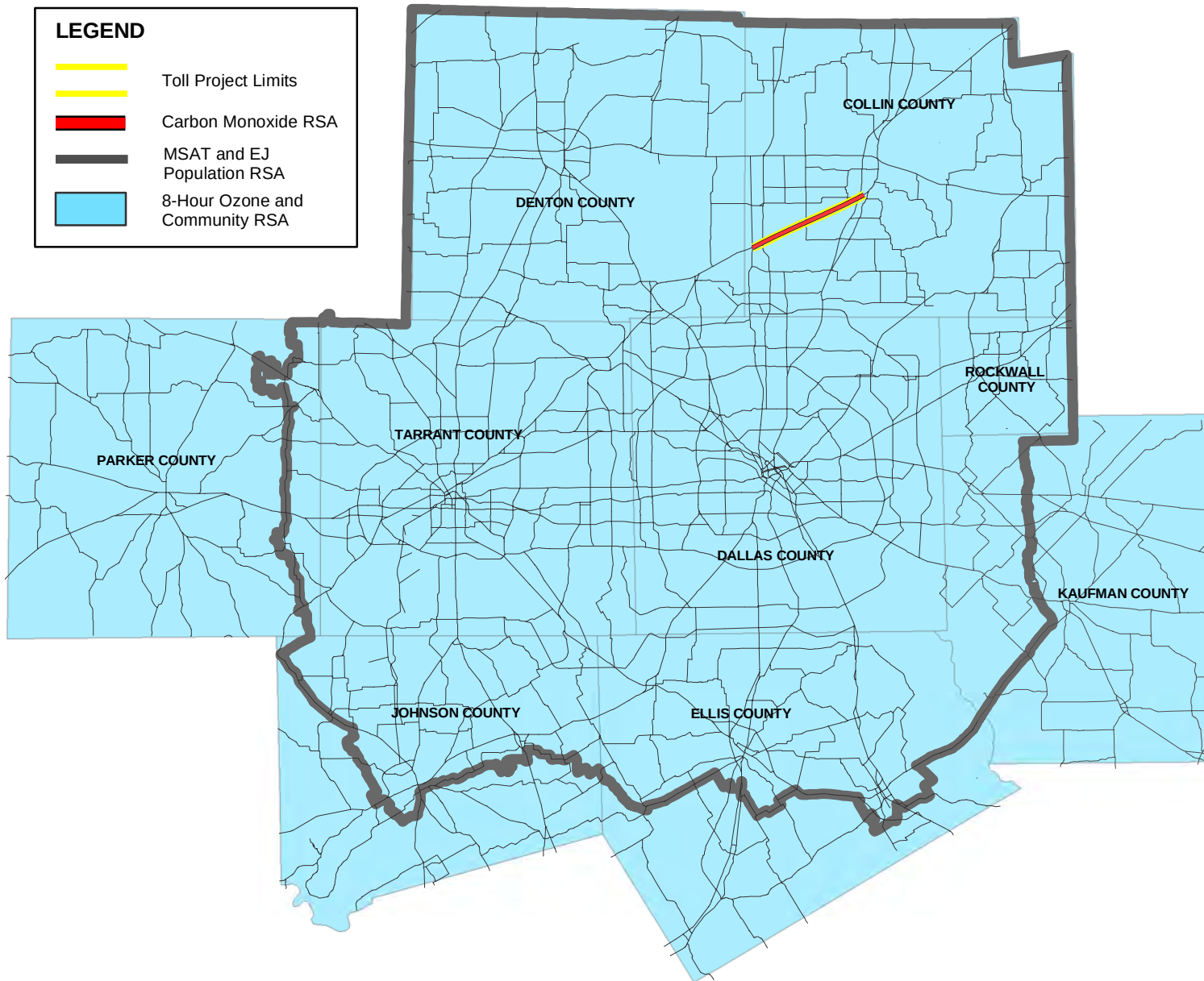
Denton and Collin Counties, Texas

LEGEND

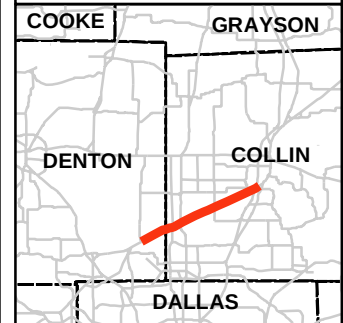
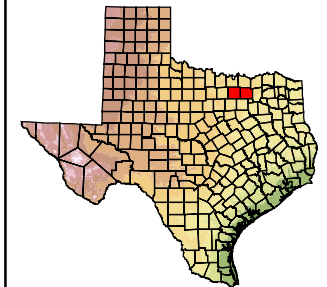
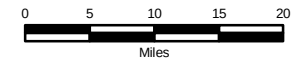
 Indirect Impacts Analysis Study Area

LEGEND

-  Toll Project Limits
-  Carbon Monoxide RSA
-  MSAT and EJ Population RSA
-  8-Hour Ozone and Community RSA



Source: NCTCOG - public roads, highways, and city limits.



**FIGURE 11:
CUMULATIVE IMPACTS
ANALYSIS STUDY AREAS**

SH 121:
FROM FM 423 TO
SH 121 AT US 75 INTERCHANGE

Denton and Collin Counties, Texas