



TXDOT- MONTGOMERY COUNTY BICYCLE INFORMATION 2016

Presented by: Adam C. Galland, P.E.

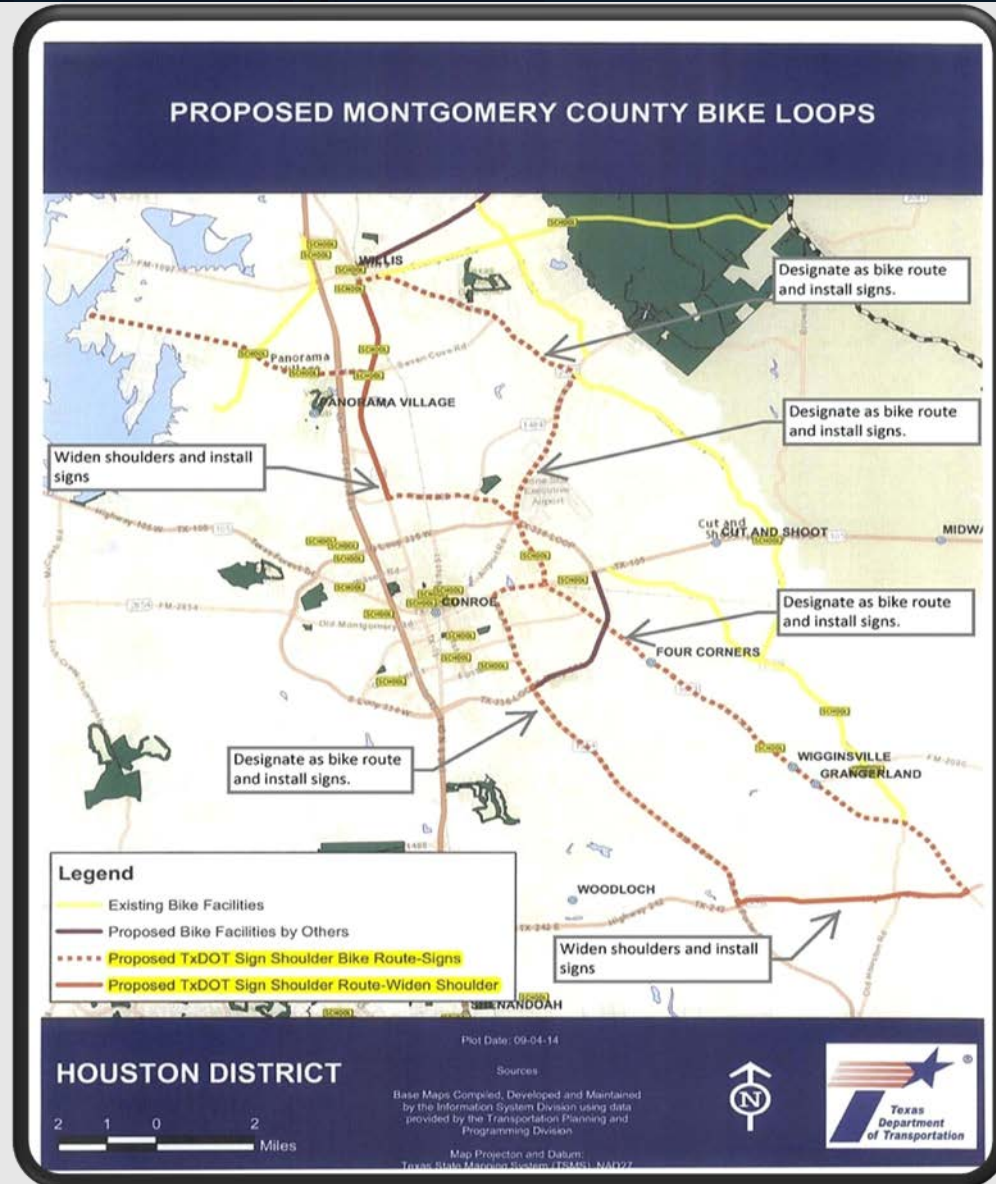
Assistant Area Engineer - TxDOT Montgomery Co.



Proposed Montgomery County Bike Routes

Proposed TxDOT Bike Routes

- FM 830 – From Lake Conroe to SH 75
- FM 2432 – From SH 75 to FM 1484
- SH 75 From FM 2432 to FM 3083
- FM 3083 – From SH 75 to SH 242
- SH 105 – From FM 1314 to LP 336 (E)
- FM 1314 – From SH 105 to SH 242
- SH 242 – From FM 1314 to FM 1485



Safety Features Along Bike Routes

As a safety feature, TxDOT includes some type of rumble strip along the shoulder line to alert motorists they are leaving the travel way. The wide and depressed rumble strip makes it challenging for cyclists therefore, profile edgeline markings are used along the shoulder stripe instead where shoulders are narrow such as shown in Option 6 below:

STANDARD of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the consequences of this standard or for any damage resulting from its use.

DATE: 11/11/13

PLAN VIEW

PROFILE VIEW

OPTION 1

CONTINUOUS MILLED DEPRESSIONS (Rumble Stripes)

PLAN VIEW

PROFILE VIEW

OPTION 2

CONTINUOUS MILLED DEPRESSIONS (Rumble Stripes)

PLAN VIEW

PROFILE VIEW

OPTION 3

CONTINUOUS MILLED DEPRESSIONS (Rumble Stripes)

PLAN VIEW

PROFILE VIEW

OPTION 4

CONTINUOUS MILLED DEPRESSIONS (Rumble Stripes)

GENERAL NOTES

- Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- Use Standard Sheet P4(2) for positioning, dimensioning, and labeling of all reflective raised pavement markers, pavement markings, and profile markings.
- See the table below for determining what options may be used for edgeline rumble strips.

WHEN INSTALLING MILLED DEPRESSION EDGELINE RUMBLE STRIPS:

- See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- Pavement markings can be applied over milled shoulder rumble strips to create an edgeline rumble strip.
- Breaks in edgeline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- Rumble strips shall not be placed across exits or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- Consideration should be given to noise levels when edgeline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inch depth of milled rumble strip may be considered in these areas.
- On roadways with high bicycle activity, consideration should be given before the installation of edgeline rumble strips. Things to consider include size of rumble strips, rumble strip material and location of rumble strips on the shoulder. If the designer determines that gaps are needed in the rumble strips due to bicycle use of the road, then follow the requirement shown in FHWA Technical Advisory 15040.39, or latest version. A detail of the spacing shall be included in the plans.

WHEN INSTALLING RAISED OR PROFILE EDGELINE RUMBLE STRIPS:

- Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edgeline when used as a rumble strip. The color of the button should match the color of the adjacent edgeline marking (white or yellow). The buttons will be sold for under Item 672, "Raised Pavement Markers". Non-reflective traffic buttons must meet the requirements of QMS-4300.
- Non-reflective traffic buttons shall not be placed across exits or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- Breaks in edgeline rumble strips using raised traffic buttons shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- The minimum distance between the edgeline and the buttons should be used if the shoulder is less than 8 feet in width.
- Raised profile thermoplastic markings used as edgelines may substitute for buttons.

SHOULDER WIDTH TABLE

EQUAL TO OR LESS THAN 2 FEET	GREATER THAN 2 FEET LESS THAN 4 FEET	EQUAL TO OR GREATER THAN 4 FEET
Option 1, 5 OR 6	Option 1, 2, 3 OR 6	Option 2, 4, 5 OR 6

PLAN VIEW

OPTION 5

RAISED EDGELINE RUMBLE STRIPS

PLAN VIEW

OPTION 6

PROFILE EDGELINE MARKINGS

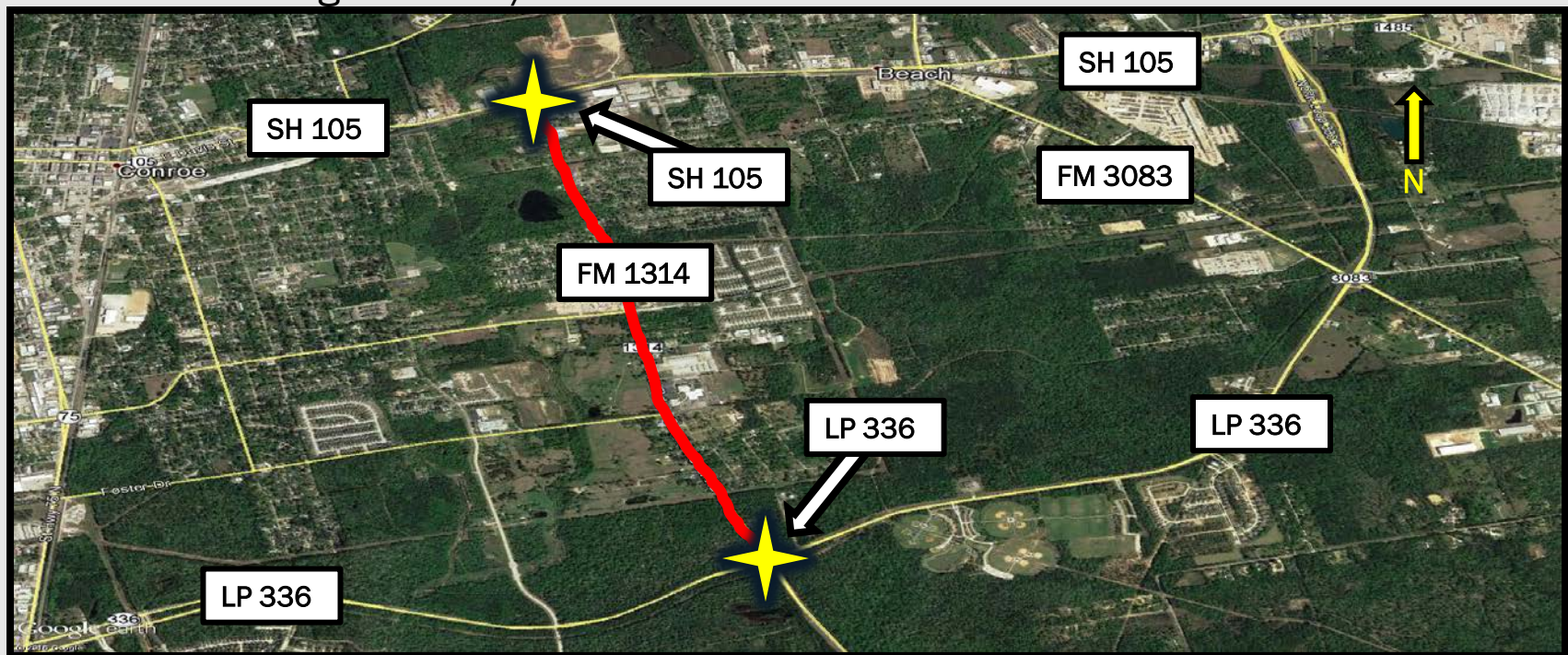
TxDOT – Montgomery County Bicycle Information 2016

Monday, November 7, 2016

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Current and Upcoming Projects

- Road: FM 1314
- CSJ: 1986-01-063
- Length: 2.200 miles
- Limits: SH 105 to LP 336
- Type of Work: Base Repair, OCST, 1.5" HMA Level Up and 1.5" HMA Overlay
- Estimated Letting Date: 09/2018



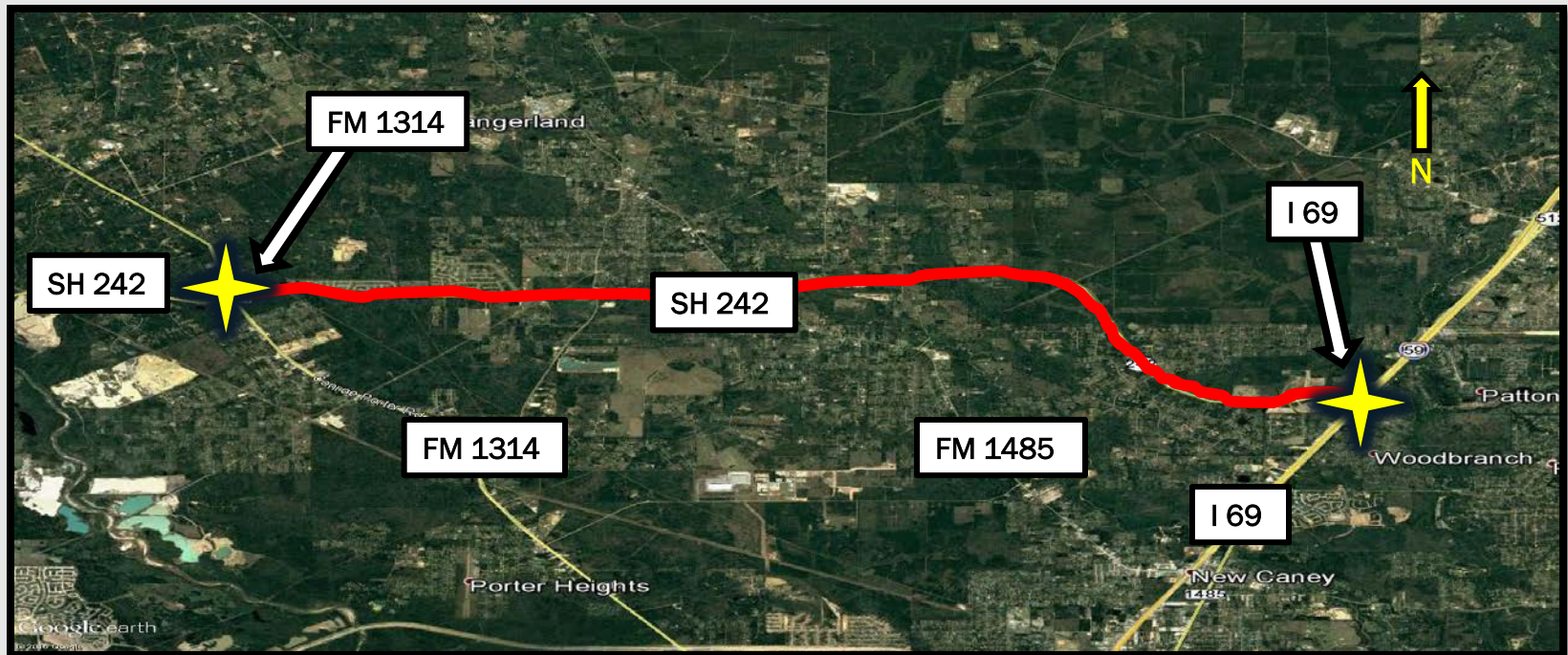
Current and Upcoming Projects

- Road: FM 1314
- CSJ: 1986-01-044
- Length: 1.222 miles
- Limits: 0.135 miles north of SH 242 to 1.088 miles south of SH 242
- Type of Work: Restripe roadway from 2 to 4 lanes
- Currently under construction



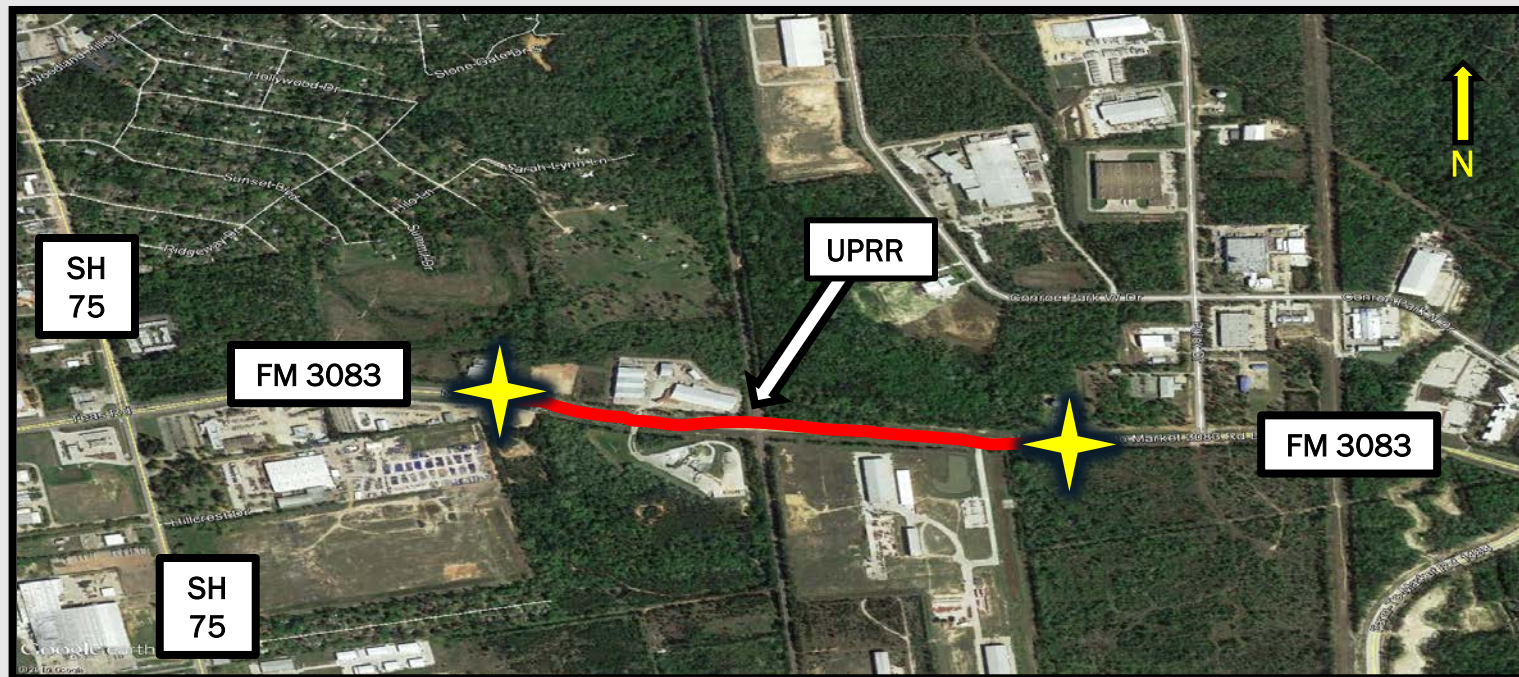
Current and Upcoming Projects

- Road: SH 242
- CSJ: 3538-01-036
- Length: 9.690 miles
- Limits: IH 69 to FM 1314
- Type of Work: Widen from 2 Lanes to 4 Lanes
- Estimated Letting Date: 09/2021



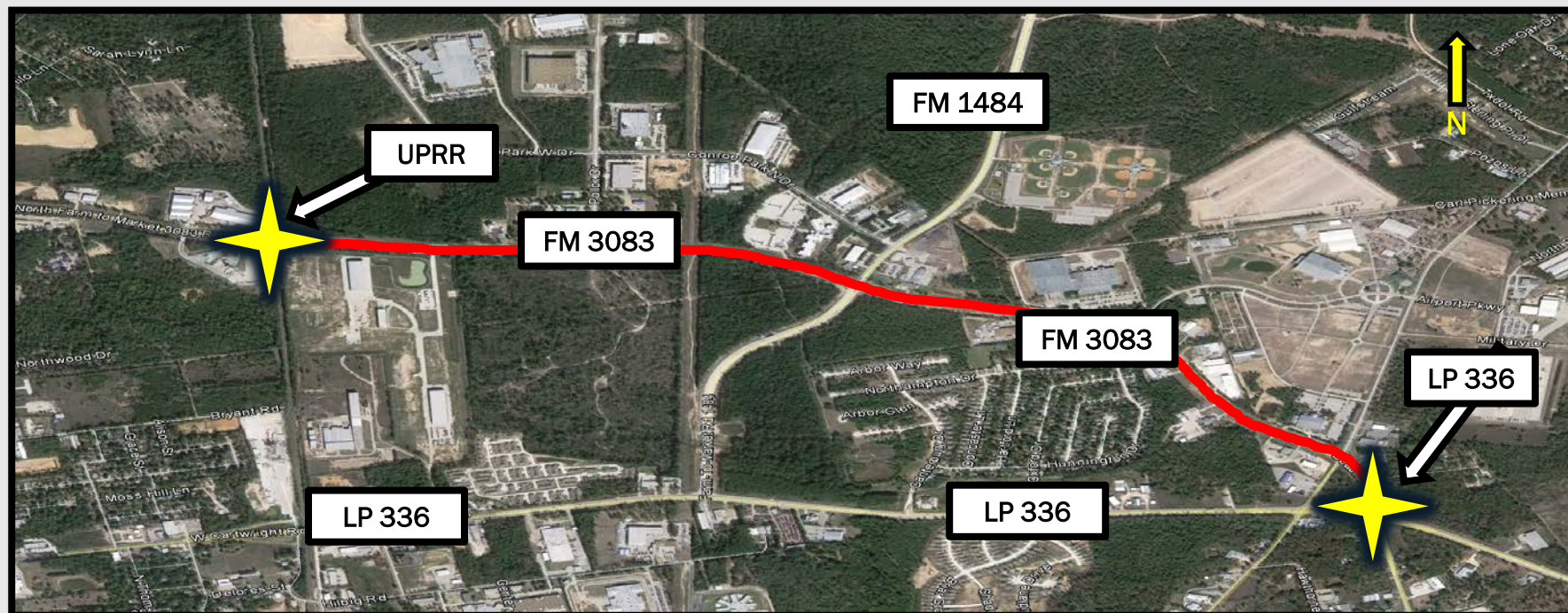
Current and Upcoming Projects

- Road: FM 3083
- CSJ: 3158-01-031
- Length: 0.705 miles
- Limits: at UPRR
- Type of Work: Construct Grade Separation
- Currently Under Construction



Current and Upcoming Projects

- Road: FM 3083
- CSJ: 3158-01-032
- Length: 1.818 miles
- Limits: UPRR to LP 336 North
- Type of Work: Widen to 4 Lane Divided
- Estimated Letting Date: 09/2017



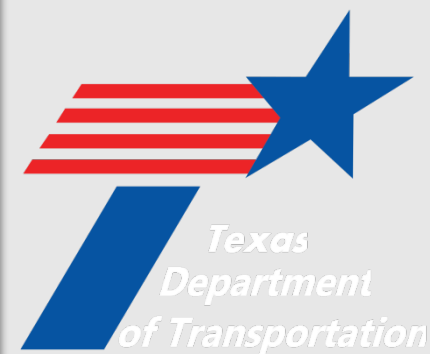
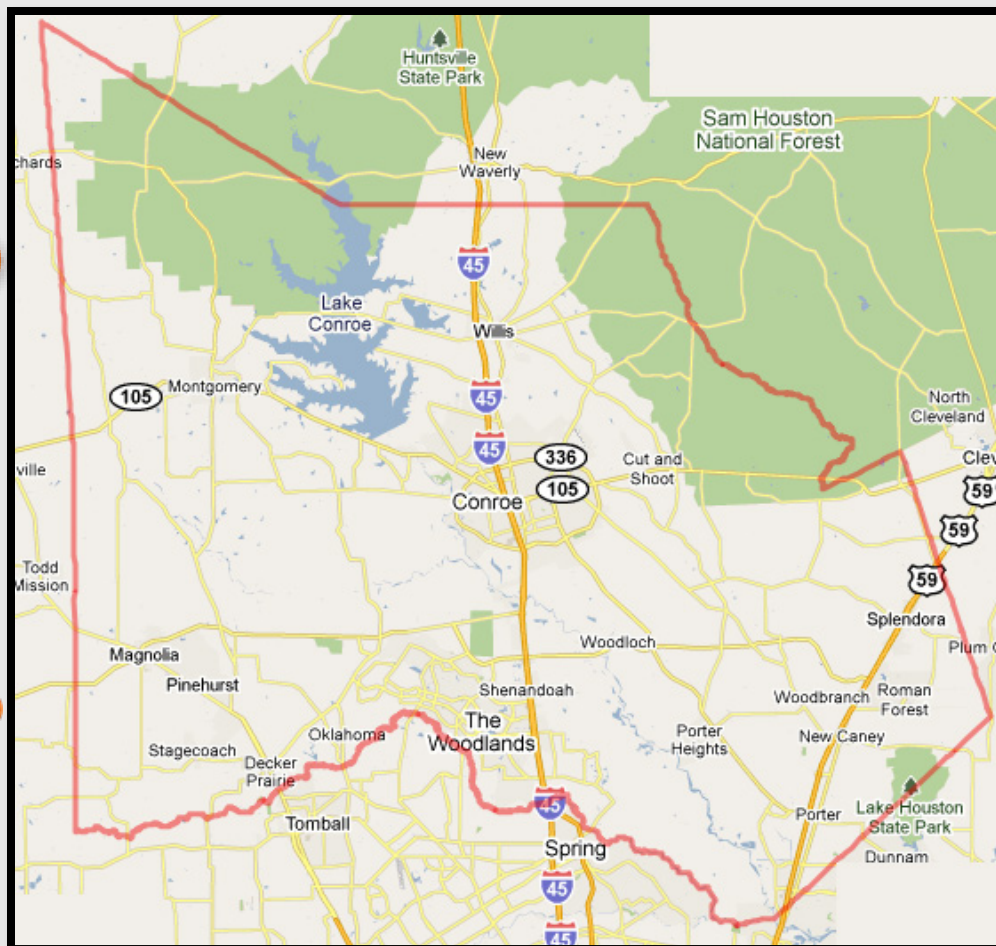
Current and Upcoming Projects

- Road: FM 830
- CSJ: 1402-03-011,etc.
- Length: 5.609 miles
- Limits: Lake Conroe to SH 75
- Type of Work: Base Repair, 1.5" HMA Overlay
- Estimated Letting Date: TBD



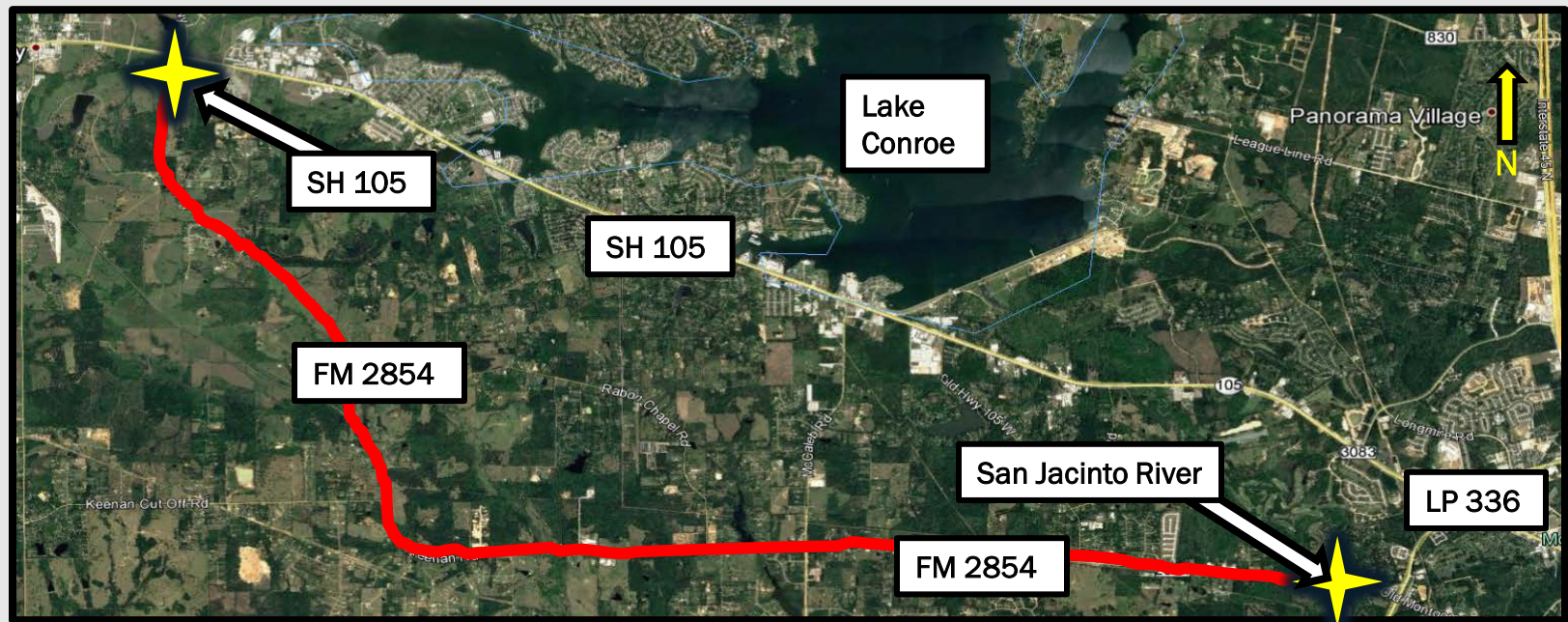
Elsewhere in Montgomery County

- Montgomery County Bicycle Heat Map
- Current and Upcoming Projects Along Routes



Current and Upcoming Projects

- Road: FM 2854
- CSJ: 2744-01-032
- Length: 12.815 miles
- Limits: SH 105 to San Jacinto River
- Type of Work: Base Repair, 1.5" HMA Level Up and 1.5" HMA Overlay
- Estimated Letting Date: 02/2020



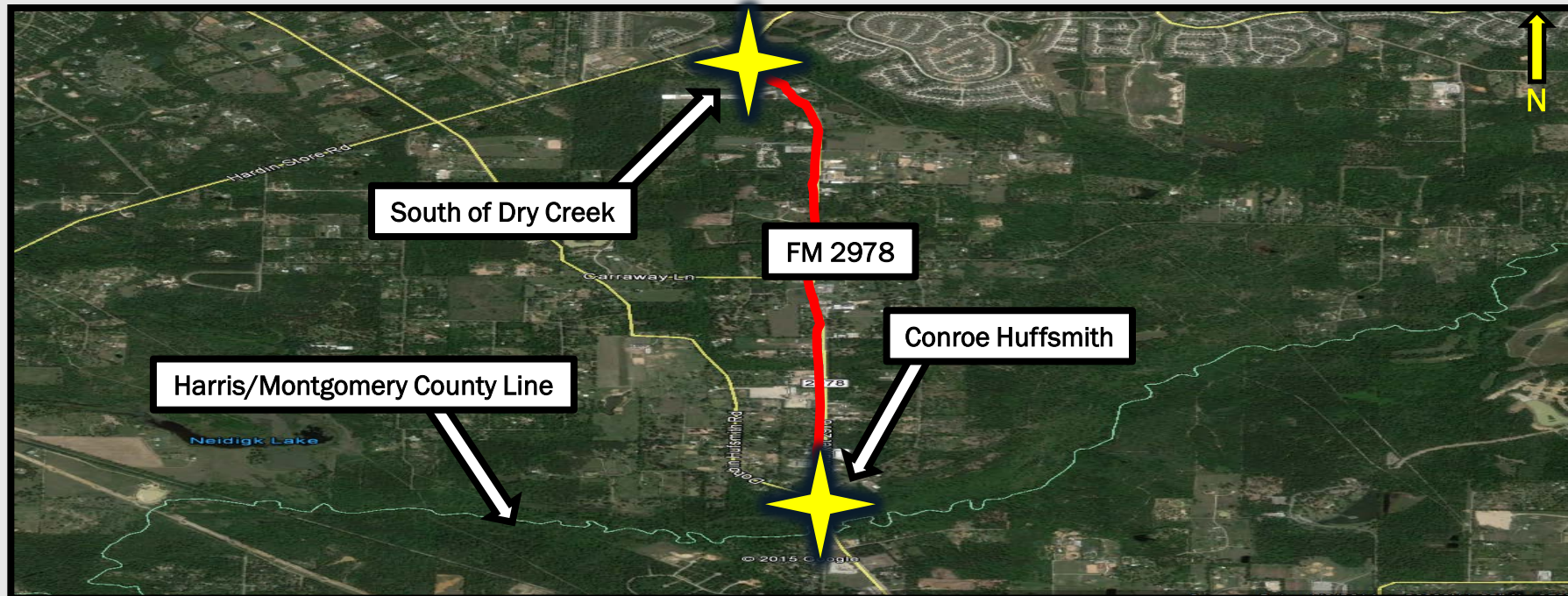
Current and Upcoming Projects

- Road: FM 2978
- CSJ: 3050-02-024
- Length: 4.000 miles
- Limits: South of Dry Creek to FM 1488
- Type of Work: Widen from 2 Lanes to 4 Lanes
- Currently Under Construction



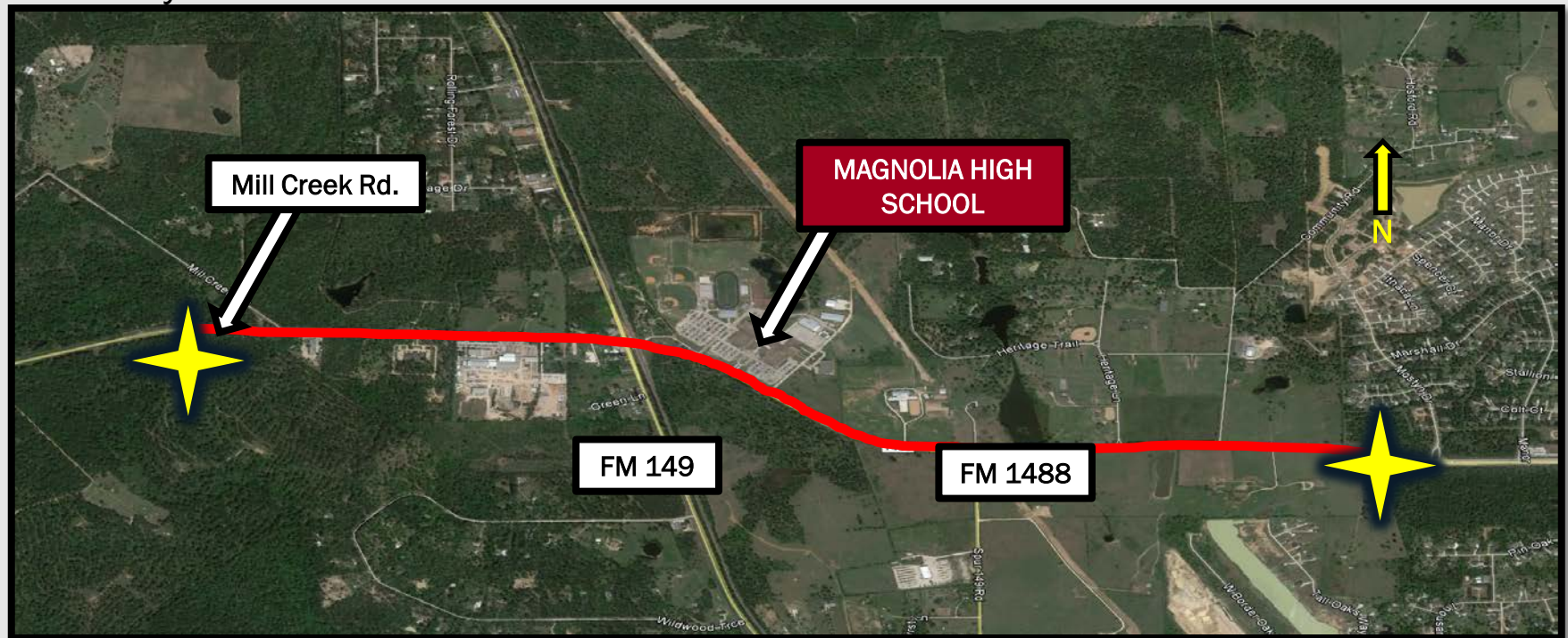
Current and Upcoming Projects

- Road: FM 2978
- CSJ: 3050-02-025
- Length: 2.500 miles
- Limits: South of Dry Creek to Conroe Huffsmith
- Type of Work: Widen from 2 Lanes to 4 Lanes
- Currently Under Construction



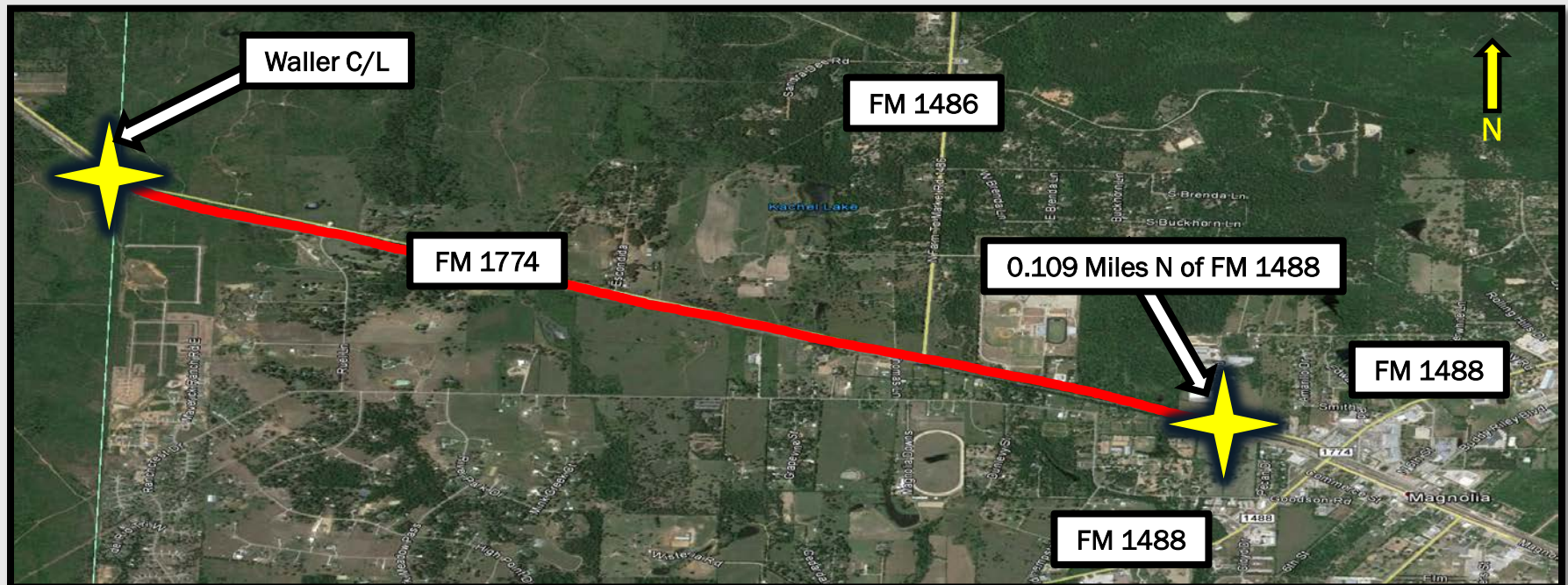
Current and Upcoming Projects

- Road: FM 1488
- CSJ: 0523-10-034
- Length: 1.576 miles
- Limits: FM 149 to 0.3 Miles West of Mill Creek Rd
- Type of Work: Construct RR Grade Separation
- Currently Under Construction



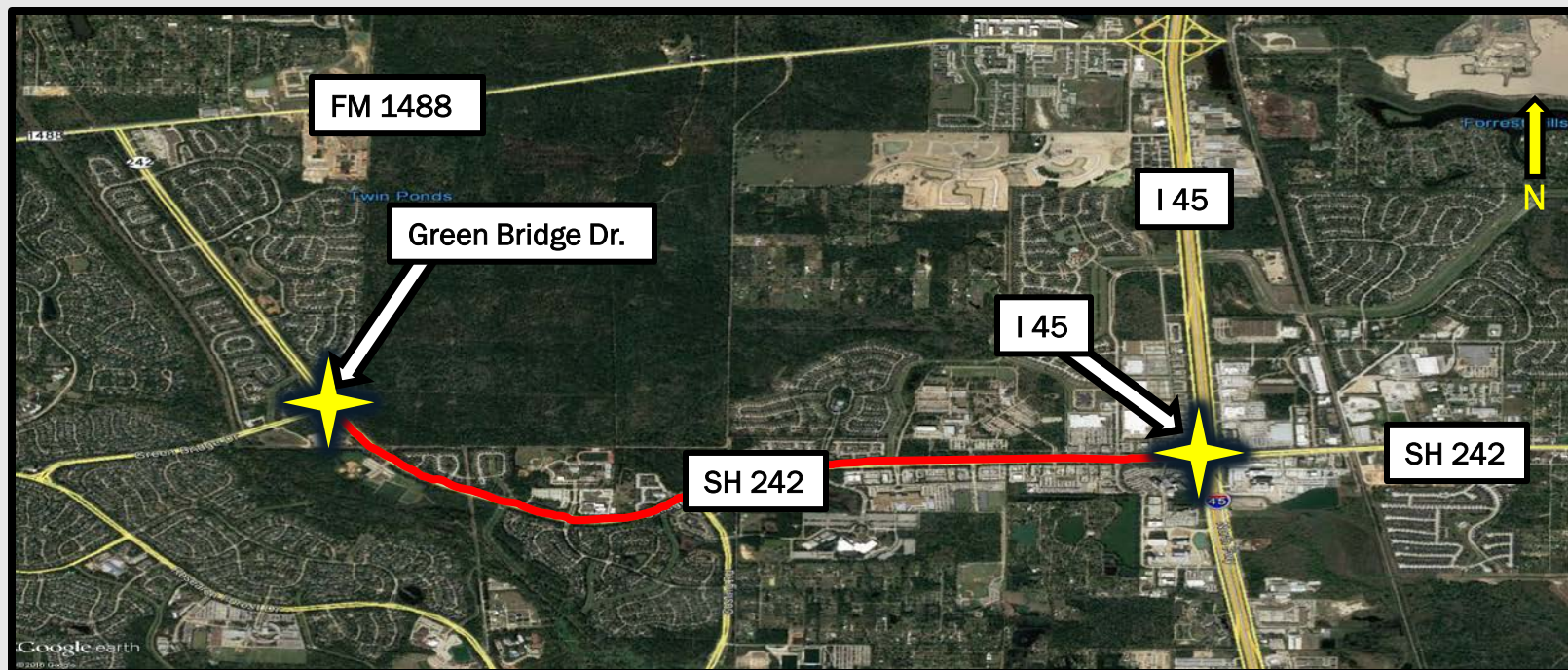
Current and Upcoming Projects

- Road: FM 1774
- CSJ: 1400-04-021
- Length: 2.337 miles
- Limits: Waller C/L to 0.109 Miles North of FM 1488
- Type of Work: Widen to 4 Lane Divided Rural w/ Railroad Grade Separation
- Currently Under Construction



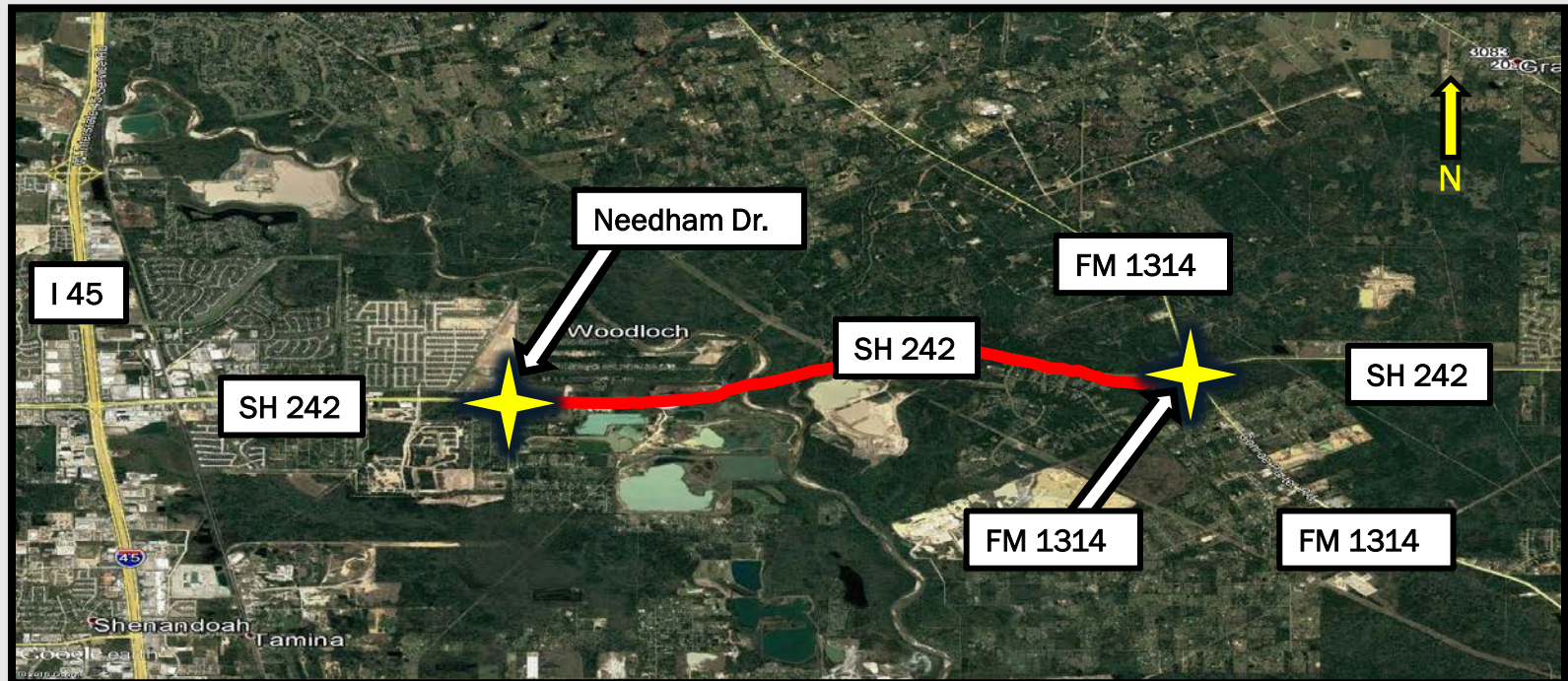
Current and Upcoming Projects

- Road: SH 242
- CSJ: 3538-01-034
- Length: 3.000 miles
- Limits: IH 45 to Green Bridge Dr.
- Type of Work: Widen from 4 to 6 Lanes
- Estimated Letting Date: 09/2022



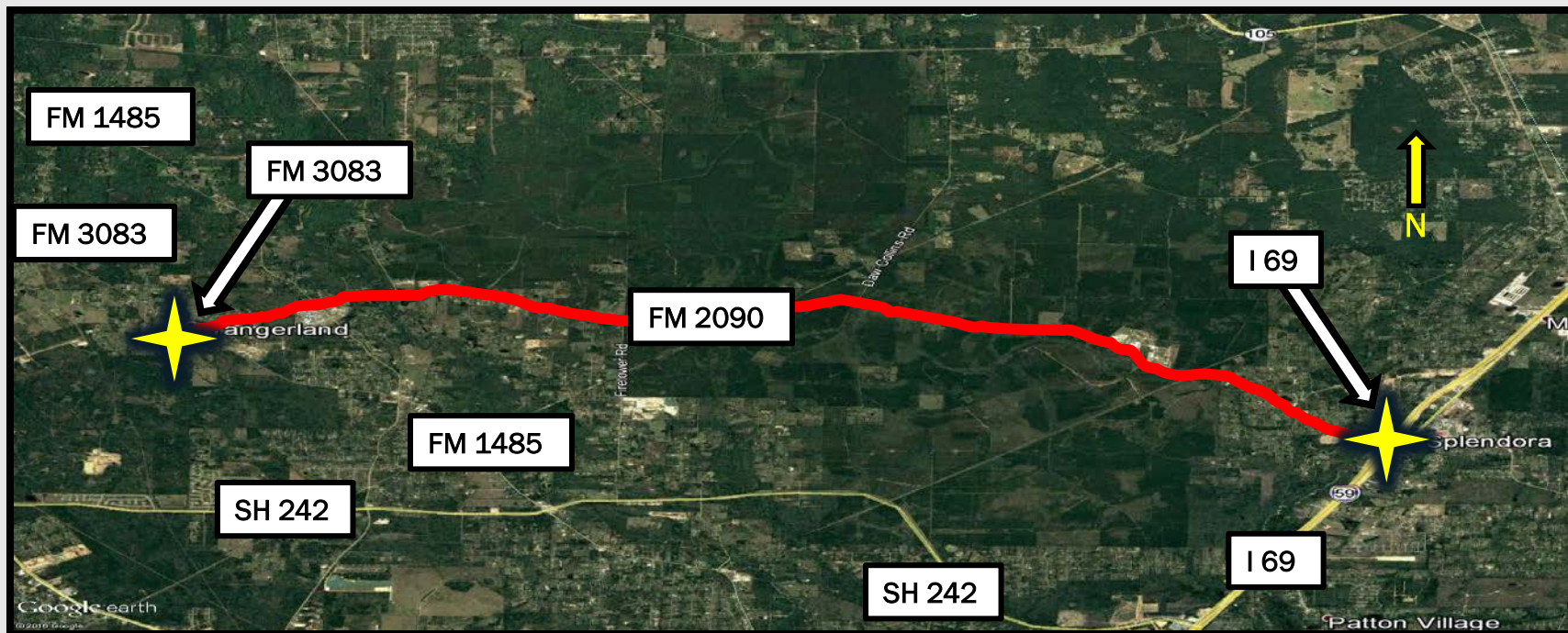
Current and Upcoming Projects

- Road: SH 242
- CSJ: 3538-01-035
- Length: 3.790 miles
- Limits: FM 1314 to Needham Dr.
- Type of Work: Widen from 2 Lanes to 4 Lanes
- Estimated Letting Date: 08/2021



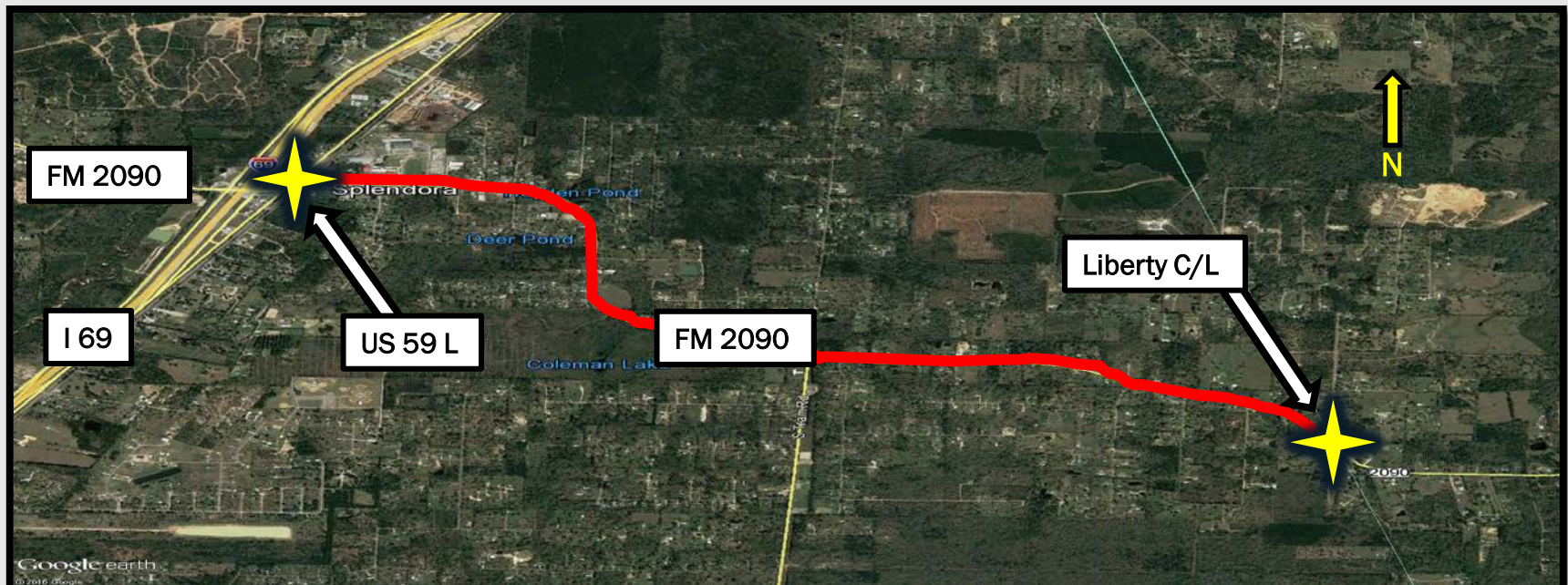
Current and Upcoming Projects

- Road: FM 2090
- CSJ: 1912-01-900
- Length: 10.600 miles
- Limits: FM 3083 to IH 69
- Type of Work: Base Repair, 2" Milling and HMA Overlay
- Estimated Letting Date: TBD



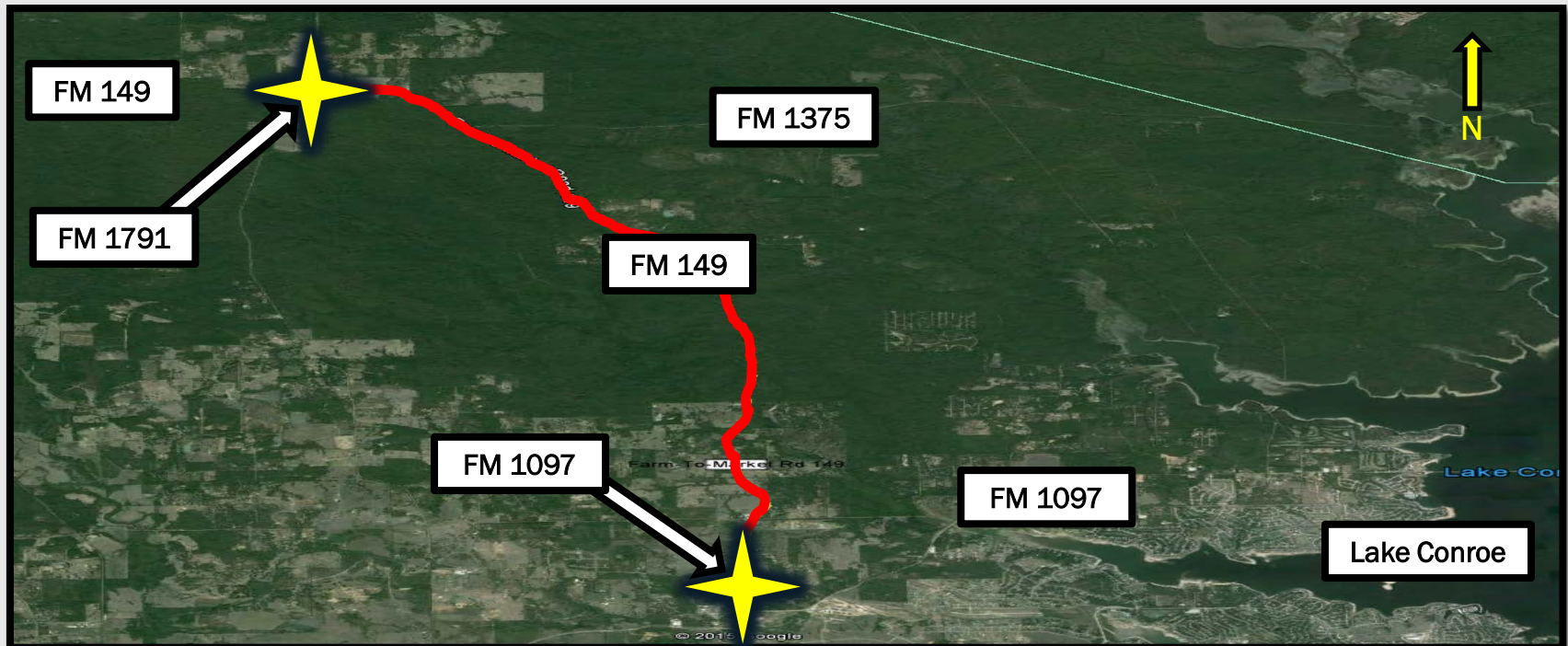
Current and Upcoming Projects

- Road: FM 2090
- CSJ: 1912-02-900
- Length: 3.400 miles
- Limits: US 59 L to Liberty County Line
- Type of Work: Base Repair, 2" HMA Overlay
- Estimated Letting Date: TBD



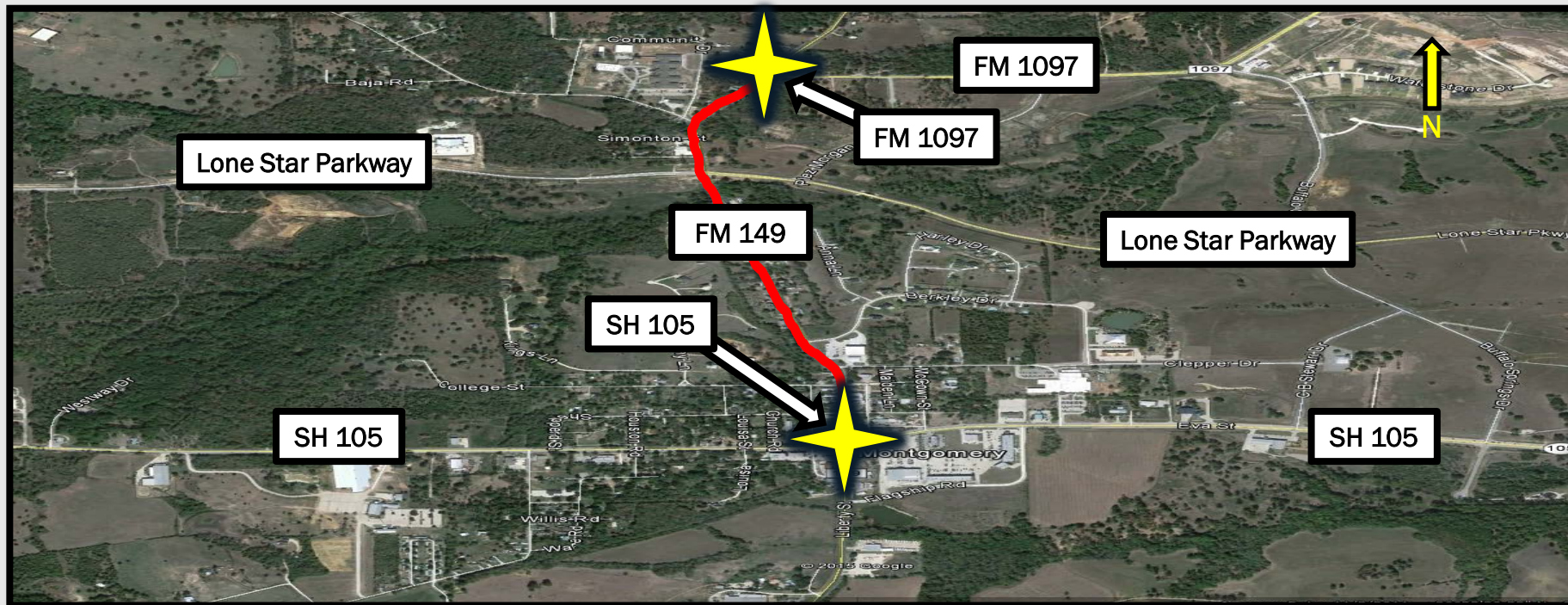
Current and Upcoming Projects

- Road: FM 149
- CSJ: 0720-02-087
- Length: 10.170 miles
- Limits: FM 1791 to FM 1097
- Type of Work: Rehabilitate Roadway (Add Shoulders)
- Currently Under Construction



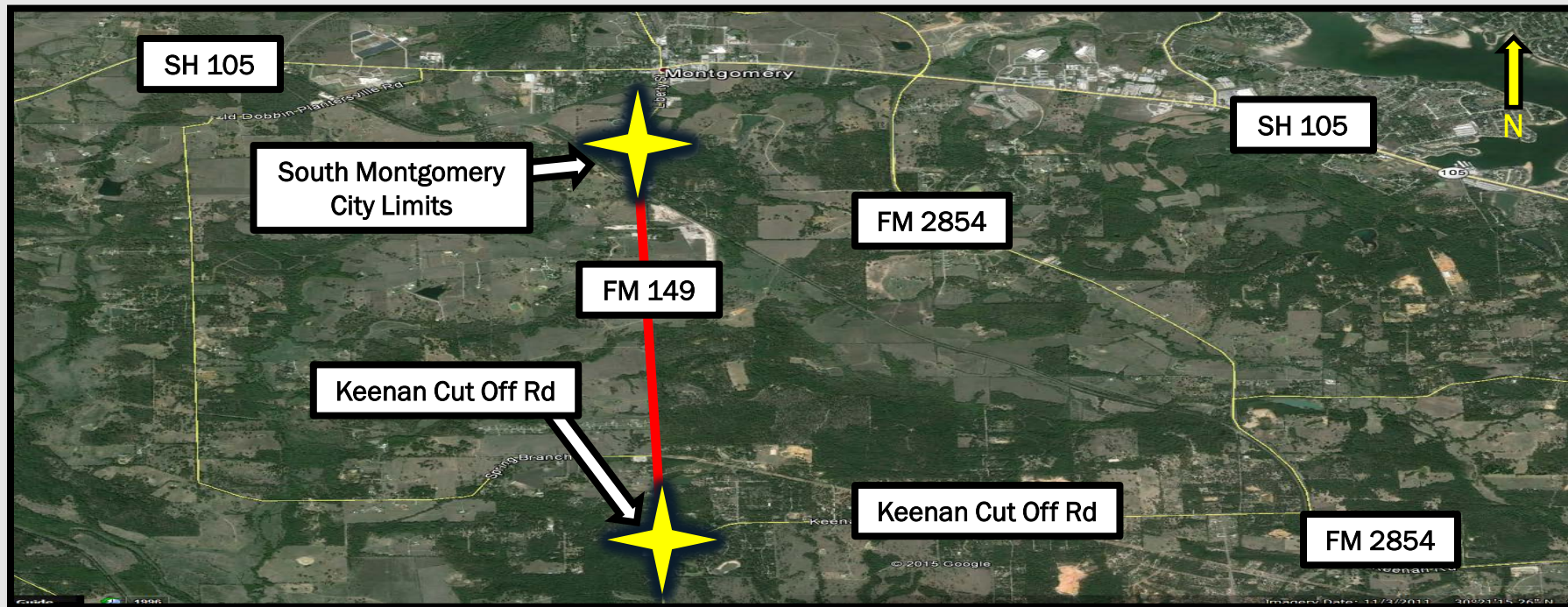
Current and Upcoming Projects

- Road: FM 149
- CSJ: 0720-02-077
- Length: 1.121 miles
- Limits: FM 1097 to SH 105
- Type of Work: Reconstruct Roadway (Widening)
- Estimated Letting Date: 09/2017



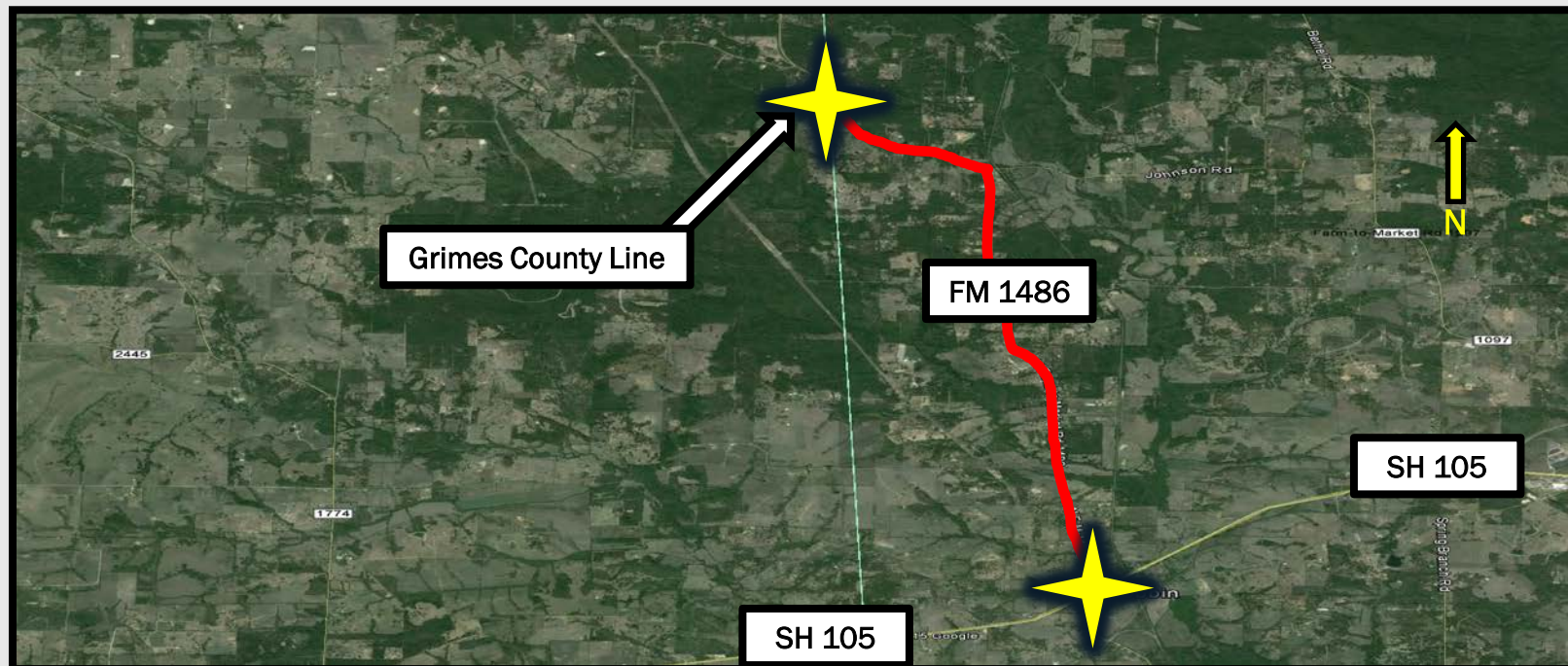
Current and Upcoming Projects

- Road: FM 149
- CSJ: 0720-02-085
- Length: 4.611 miles
- Limits: Southern Montgomery City Limits to Keenan Cutoff Road
- Type of Work: Rehabilitate Roadway (Add Shoulders)
- Estimated Letting Date: 02/2017



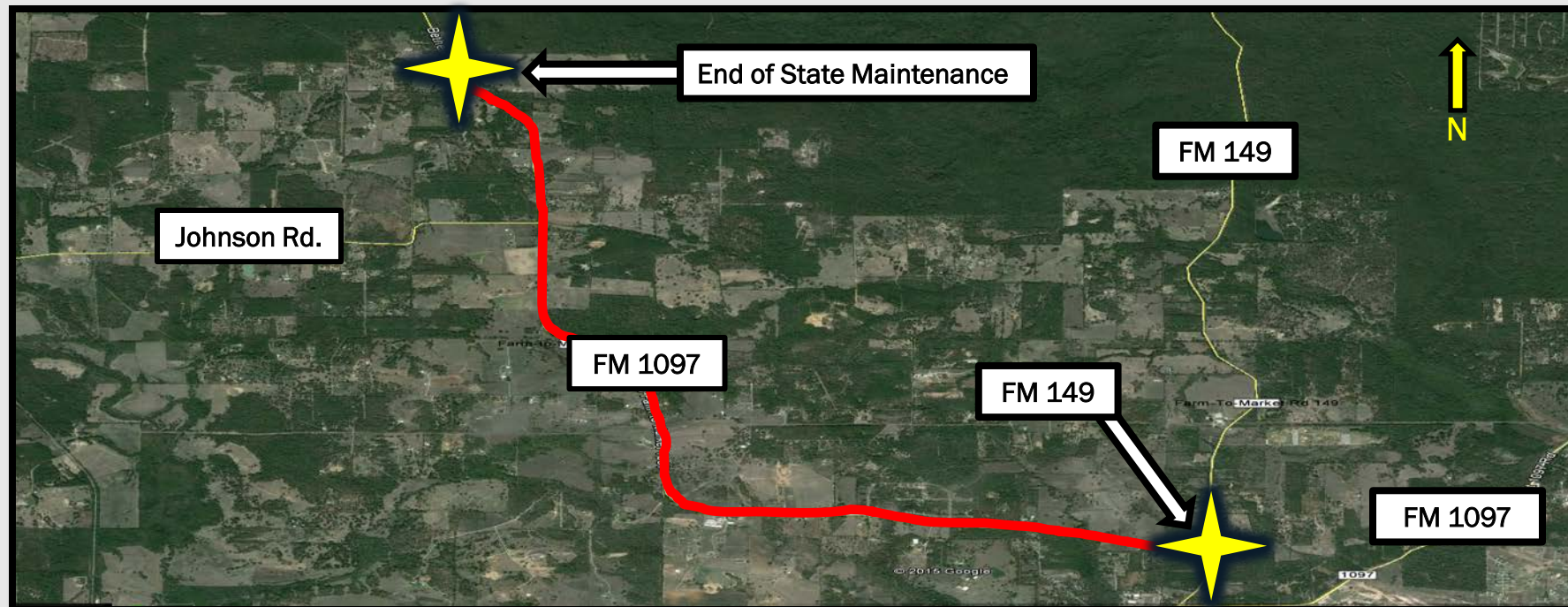
Current and Upcoming Projects

- Road: FM 1486
- CSJ: 1416-02-013
- Length: 7.869 miles
- Limits: SH 105 to Grimes County Line
- Type of Work: Rehabilitate Roadway (Add Shoulders)
- Estimated Letting Date: 02/2020



Current and Upcoming Projects

- Road: FM 1097 (West)
- CSJ: 1706-03-008
- Length: 6.257 miles
- Limits: FM 149 to End of State Maintenance
- Type of Work: Rehabilitate Roadway (Add Shoulders)
- Currently Under Construction



Questions, Comments, Concerns



Contact Information:

Adam C. Galland, P.E.

Assistant Area Engineer – Montgomery County

936-538-3300

Adam.Galland@txdot.gov