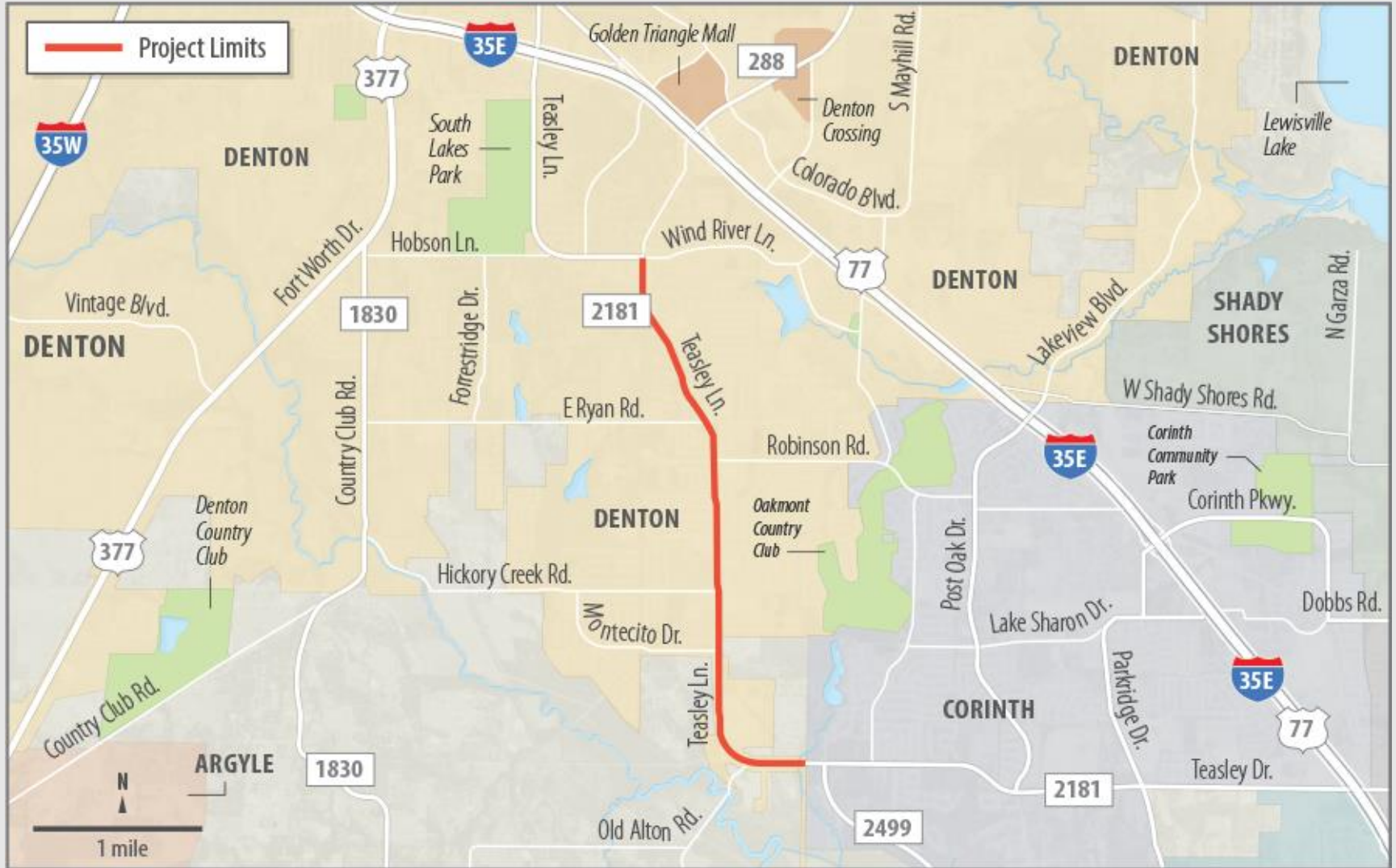




FM 2181 PROJECT



FM 2181 Project Overview

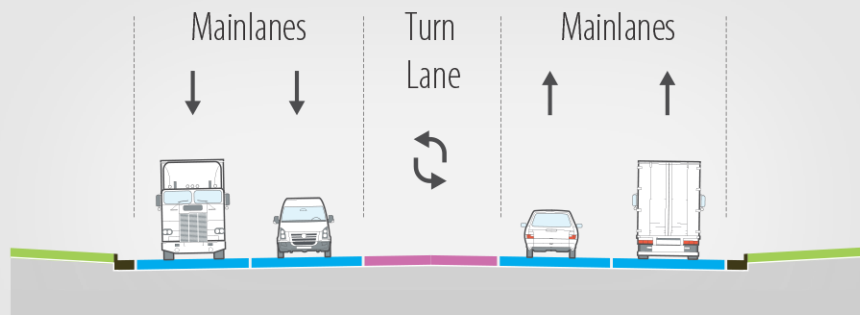


FM 2181 Project Overview

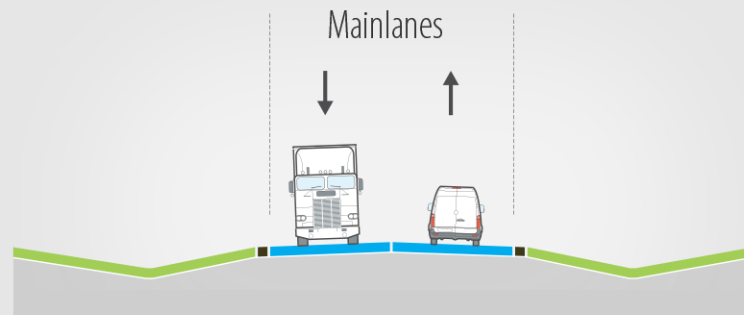
- **Operational Improvements along FM 2181**
 - Project Limits: from Lillian Miller Pkwy. in Denton to west of FM 2499 (Barrel Strap Rd.)
- **Project Scope**
 - Widen 2-lane rural roadway to 6-lane divided urban highway
 - Add left-turn lanes at various intersections
- **Project Goals and Benefits**
 - Maximize operational improvements along FM 2181 by increasing capacity, reducing traffic congestion, and improving mobility
 - Increasing average speeds on select links during morning peak congestion
- **Project Schedule**
 - Anticipated Letting – August 2017
 - Anticipated Completion TBD
- **Design-Bid-Build**
- **Total Project Costs:**
 - \$41.7 million
 - Includes Engineering, ROW and Construction

FM 2181 Project Overview

Existing Typical Sections

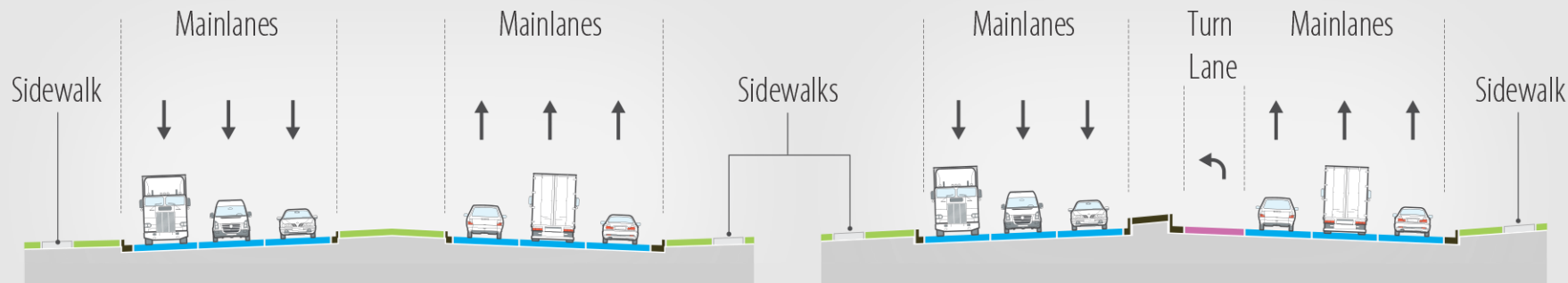


From Lillian Miller Pkwy. for .25 miles south



... Then transitions to two-lanes

Proposed Typical Sections



Six-lane divided urban curb & gutter highway with left-turn lanes at various ICs

Estimated Quantities

- 94,582 CY of Excavation
- 34,204 CY of Embankment
- 196,340 SY of LTS
- 39,605 Tons of HMAC
- 179,049 SY of Concrete Pavement
- 3,615 LF of Culvert
- 5,767 SF of Retaining Walls
- 1,106 LF of Drainage Pipe
- 40 EA of Drainage Inlets and Manholes
- 69,609 LF of Concrete Curb

Other items included in the project

- Removal of roadway items:
curb, paving, riprap, medians, sidewalks and driveways
- Removal of structure items;
inlets, headwalls, pipe, culverts and manholes
- Guard fence remove and install
- Illumination, signals, ITS, small road signs and pavement markings

Questions