

Kelly Lane
Major Investment Study (MIS)
Project Update

Joel Rabinovitz, PE
DKS Associates



Kelly Lane MIS Background

2019

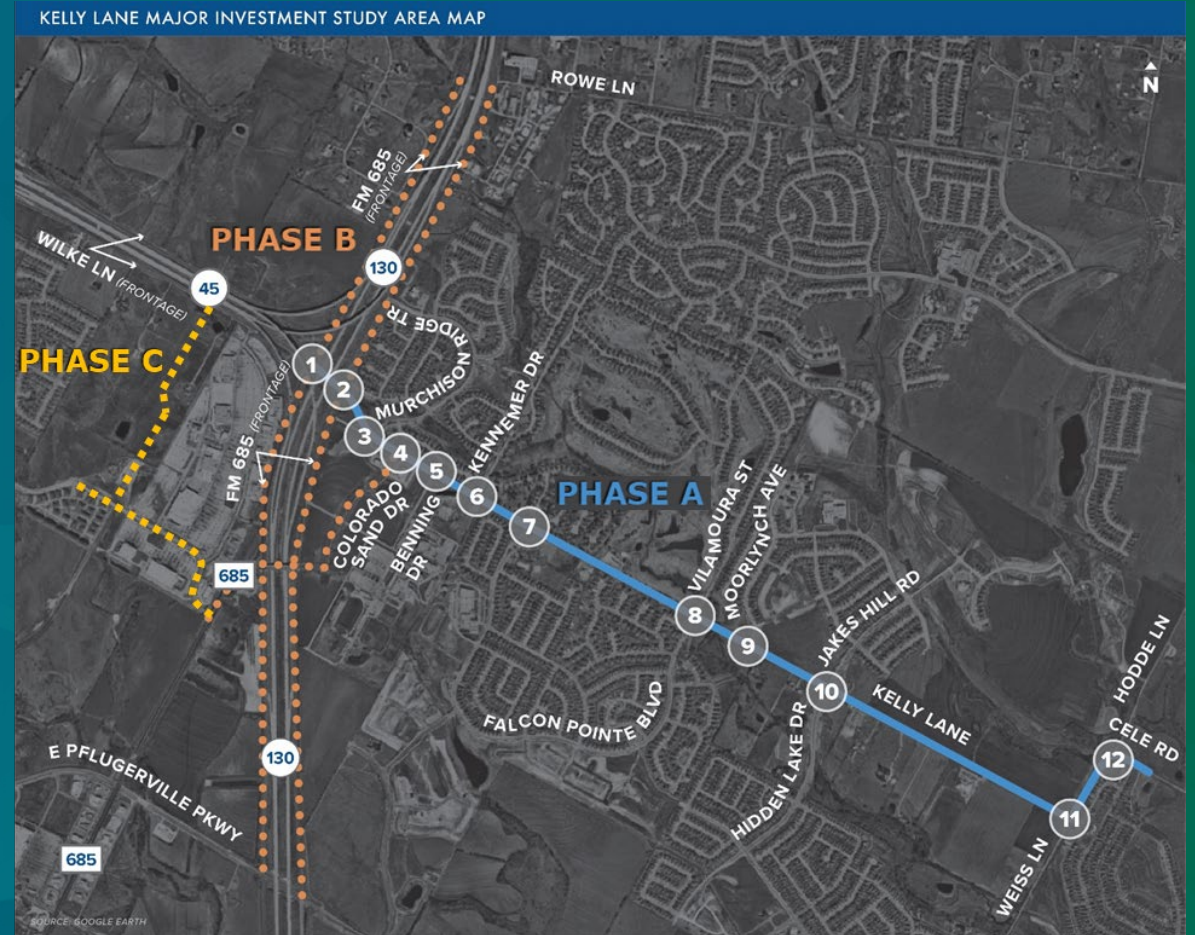
- Origin-destination study
- Phase A/B data collection
- Phase A recommendations

2020

- Phase C data collection (pre-COVID)
- Phase B/C traffic forecasting

2021

- Project testing in mesoscopic model
- P&Z and Council updates
- Finalize Phase B/C project list and recommendations



Kelly Lane MIS Background

PHASE A – 2019 - Completed

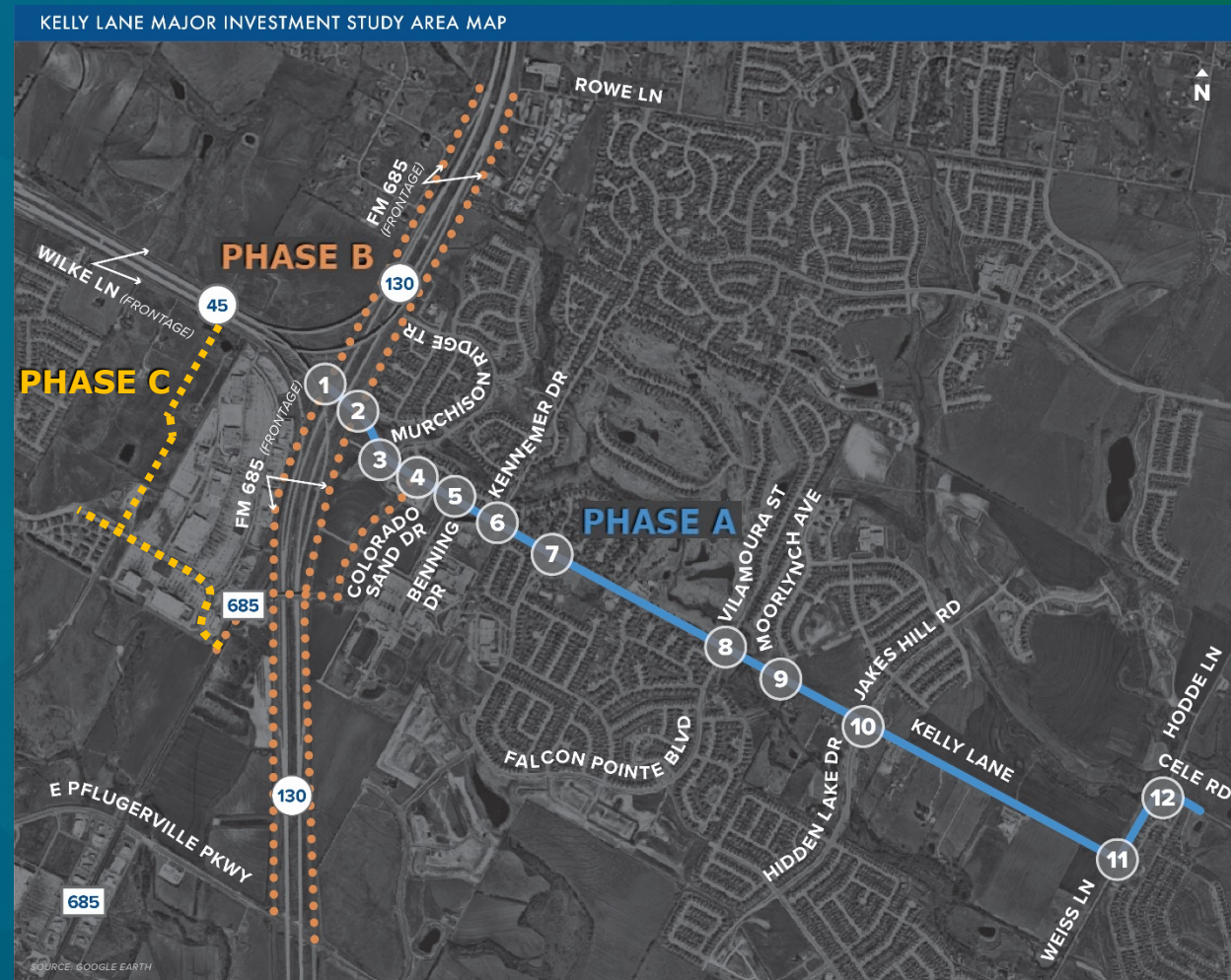
- Identified improvements for Kelly Lane from Weiss Lane to FM 685/SH 130

PHASE B – In Progress

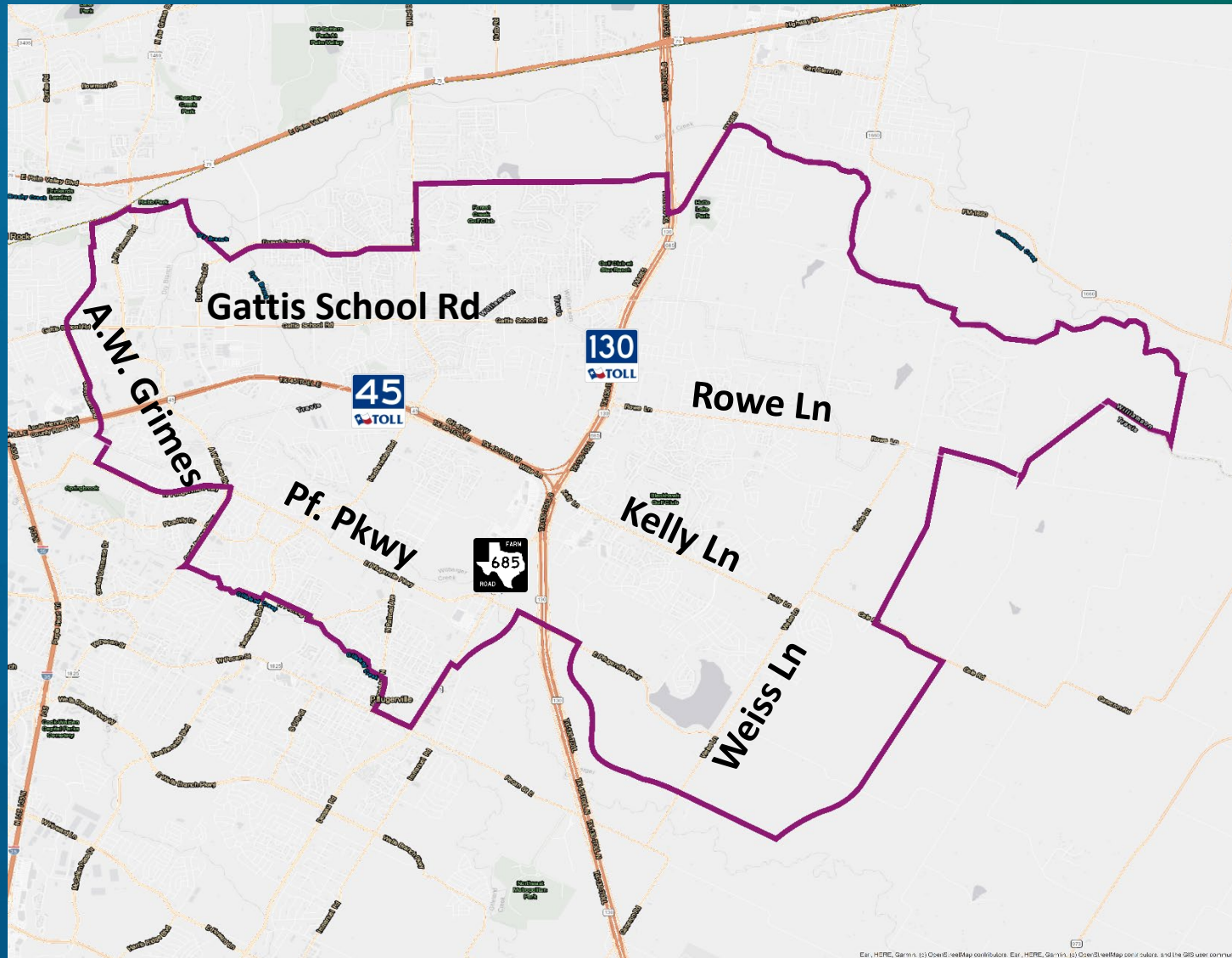
- Identify operations improvements for the FM 685/Kelly Lane and FM 685/Copper Mine Drive interchanges

PHASE C – In Progress

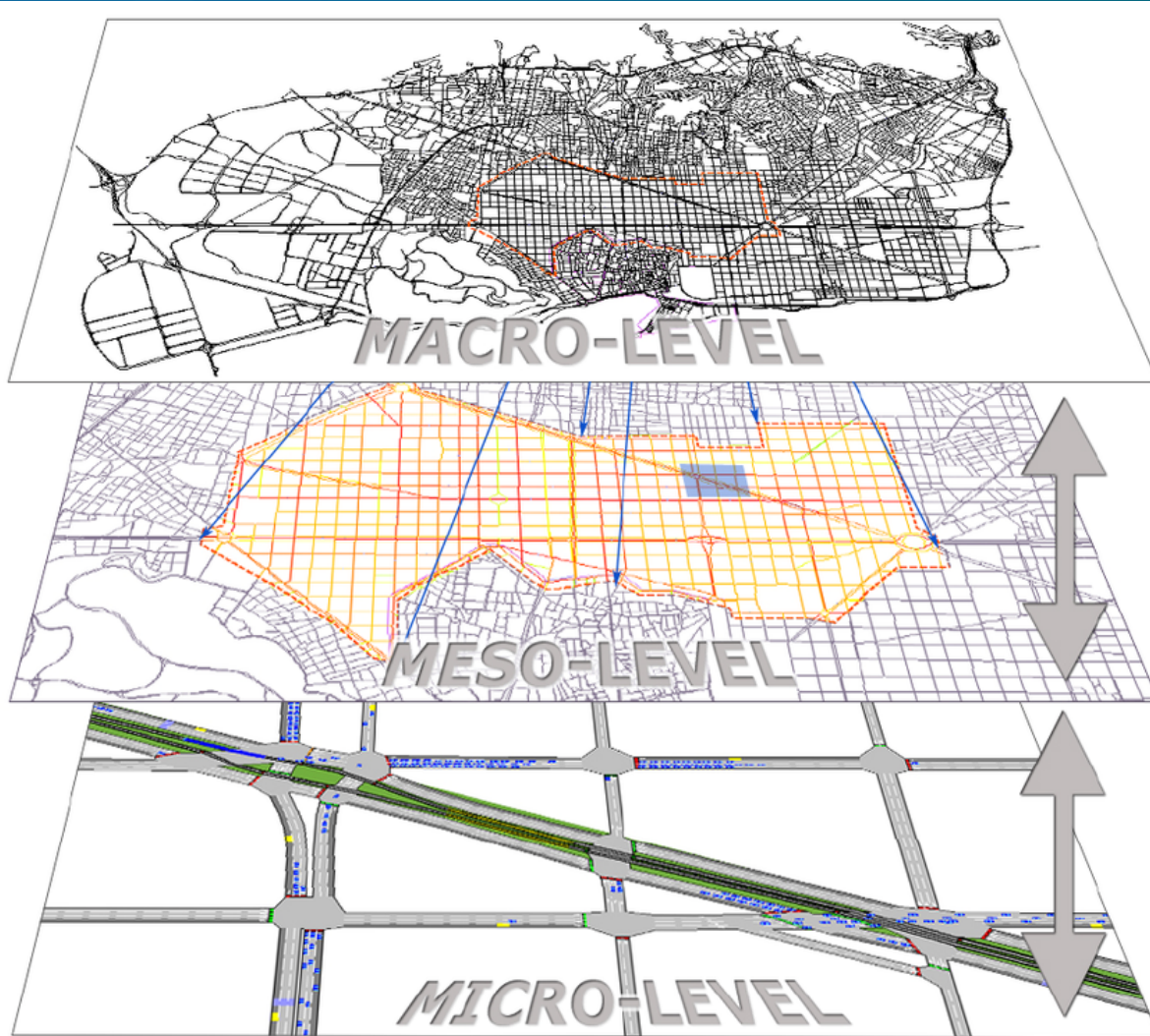
- Identify operations improvements for Town Center Drive and Pfluger Farm Lane



Pflugerville Meso Model Study Area



Modeling Overview



Macro:

- Large area
- CAMPO Model (6 counties)
- City's Transportation Master Plan (TMP) Model (based on CAMPO model)
- Population and Employment Estimates

Meso:

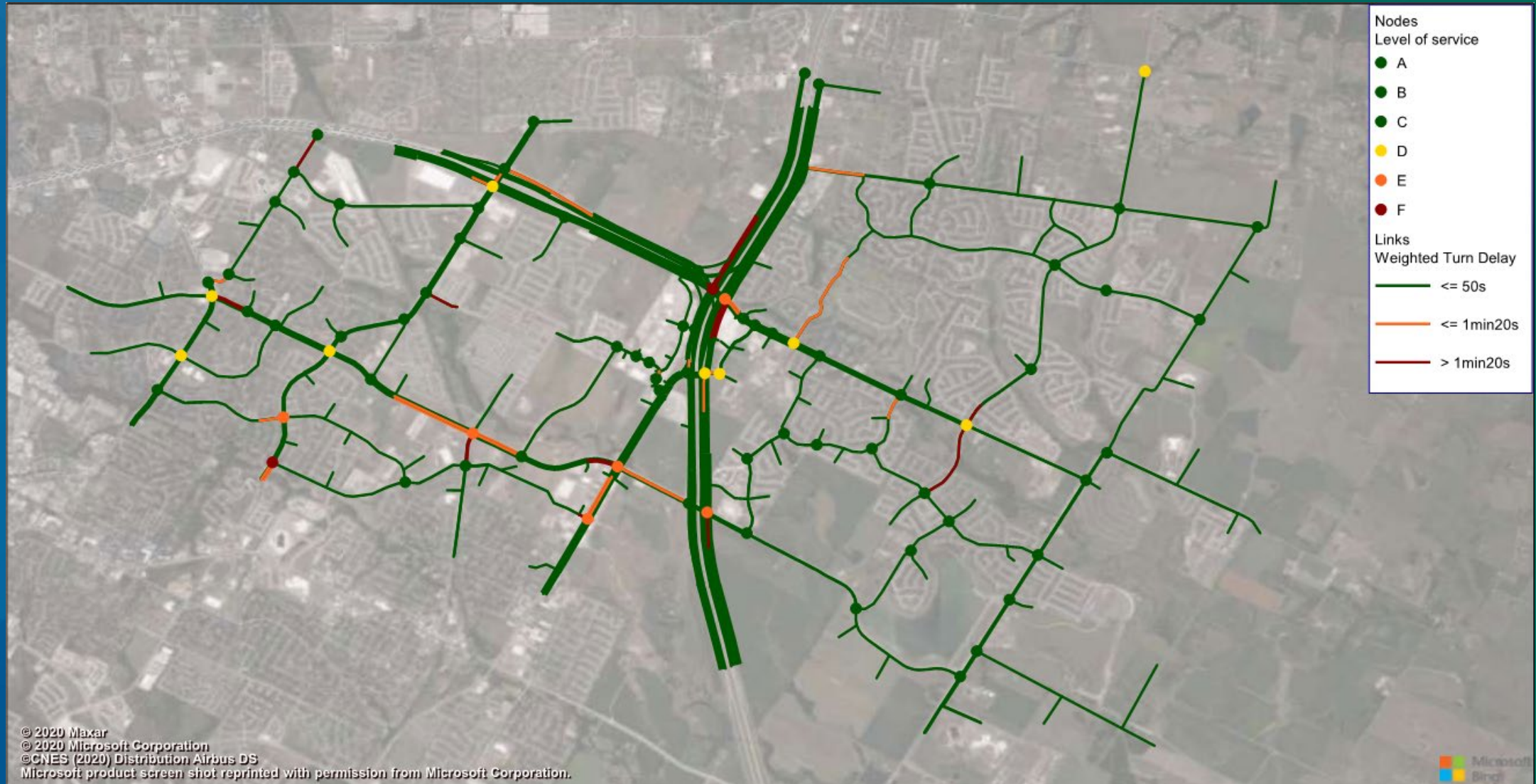
- Smaller area
- Estimates intersection-based delay
- Signal timing, turning movement delay
- Includes local and collector roadways

Micro:

- Local area
- Simulates individual vehicles



Existing Conditions - PM Peak Hour (Nov. 2019)



2030 Analysis

2030 Baseline Analysis

Analysis of study area projects with construction targeted to be complete by 2030:

- Programmed (aka funded) Projects:
 - FY21 – FY25 CIP
 - 2015 CO Bond
 - 2018 GO Bond
 - 2020 GO Bond
 - TIA Fund
 - General Fund
 - Roadway Impact Fee
 - Other Agency Projects (TxDOT, Williamson County, Travis County, Round Rock, Hutto)
- Development infill based on current applications

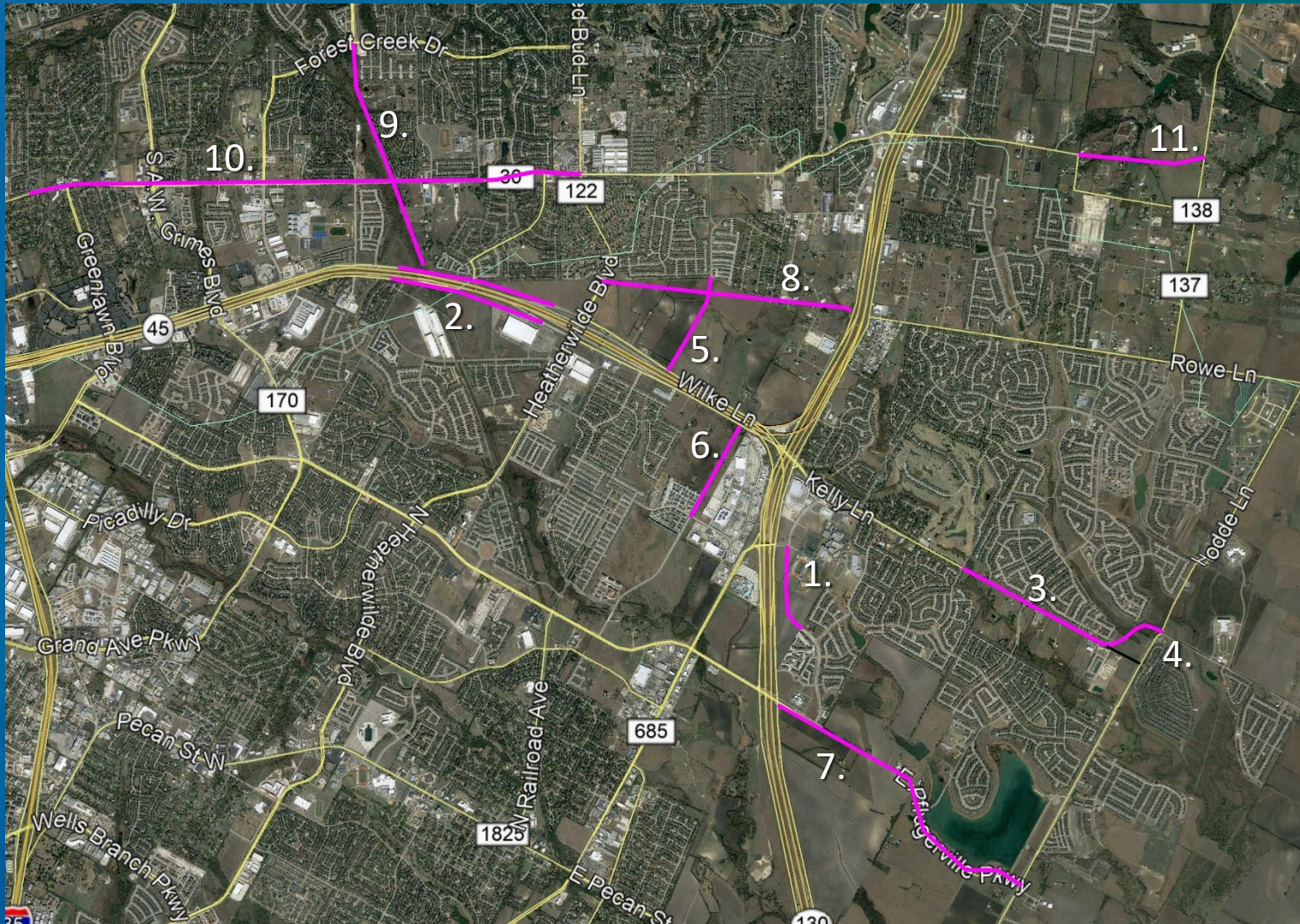
2030 Potential Improvement Scenarios

Analysis of study area projects that will help inform the CIP for FY26 – FY30:

- Unfunded Projects:
 - CIP Unfunded Projects
 - Transportation Master Plan
 - Thoroughfare Plan
 - Other Agency Planned Projects
 - New ideas that may improve transportation operations



2030 Baseline Projects



Projects assumed to be complete by 2030:

1. Filling Colorado Sand Gap*
2. Filling SH 45 Frontage Rd gaps*
3. Kelly Ln Phase 3 widening to four lanes *
4. Kelly-Hodde-Weiss-Cele intersection improvements*
5. Peach Vista Dr extension
6. Pflugerville Ln extension*
7. Pflugerville Pkwy widening to four lanes*
8. West Rowe Ln (No SH 130 Overpass)
- Signalize intersections (locations determined by CIP)*

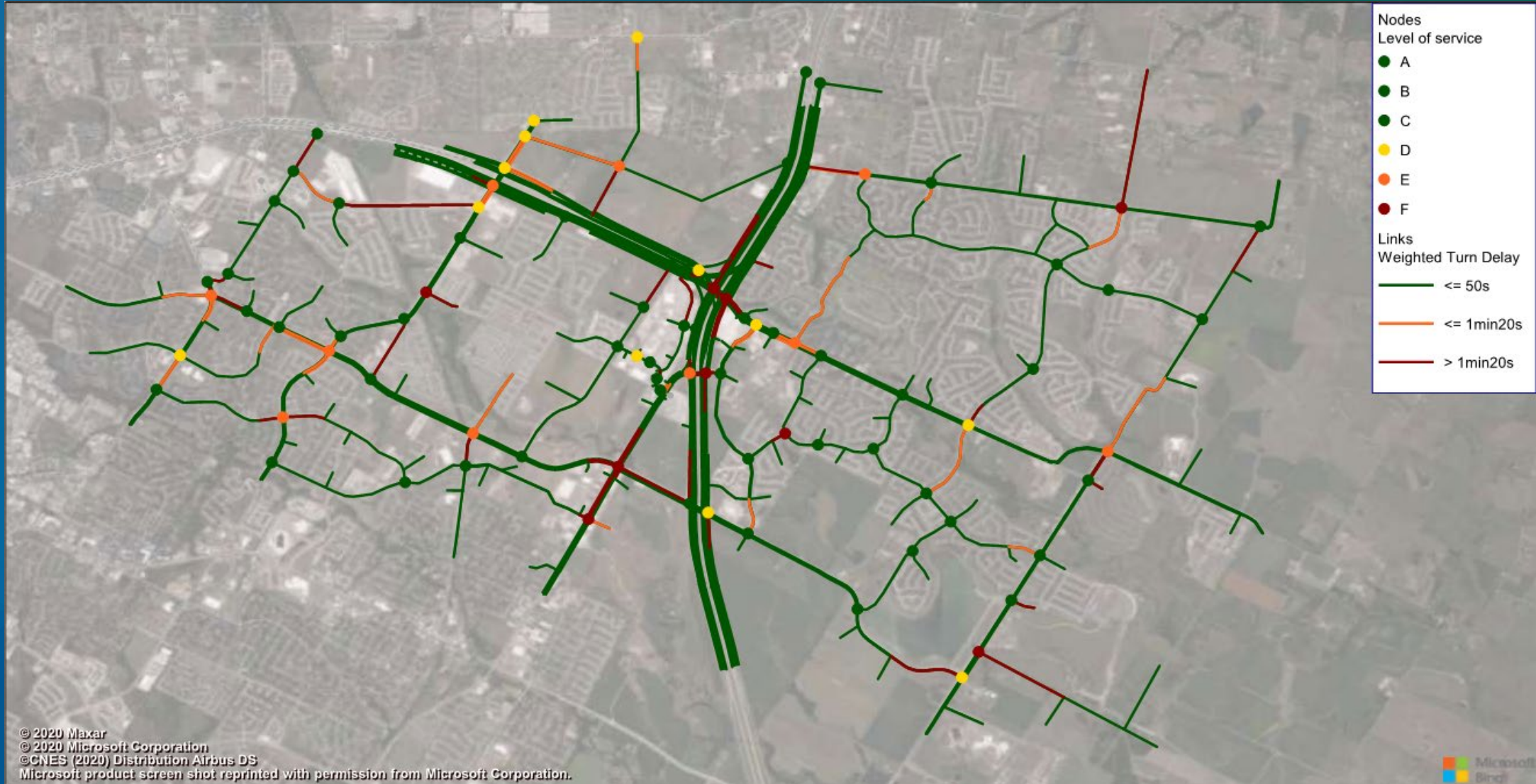
Programmed Projects by Other Agencies:

9. Kenney Fort Blvd extension
10. Gattis School Rd widening to six lanes
11. CR 138 improvements

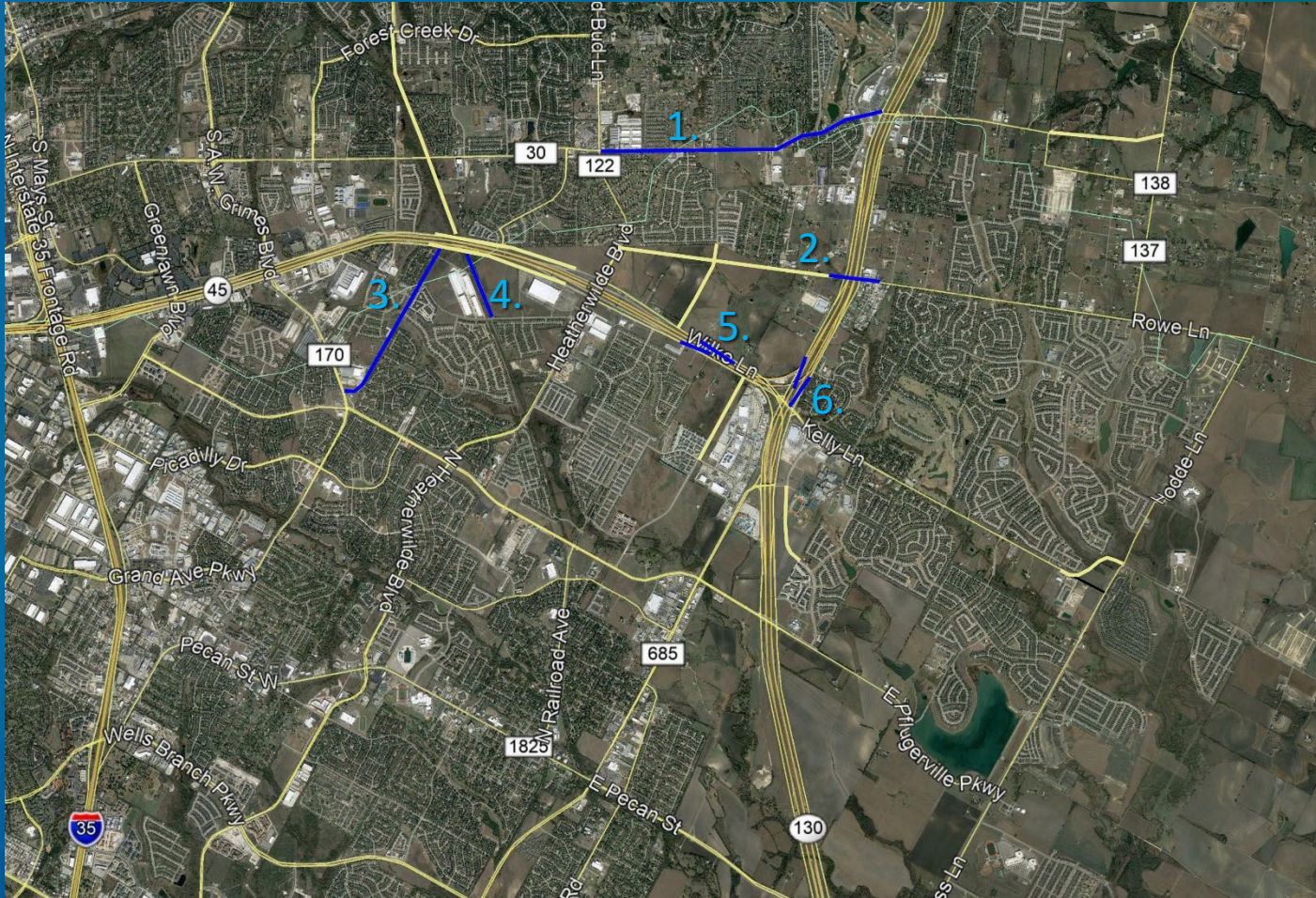
* = CIP Funded Projects



2030 Baseline Conditions - PM Peak Hour



Potential Projects



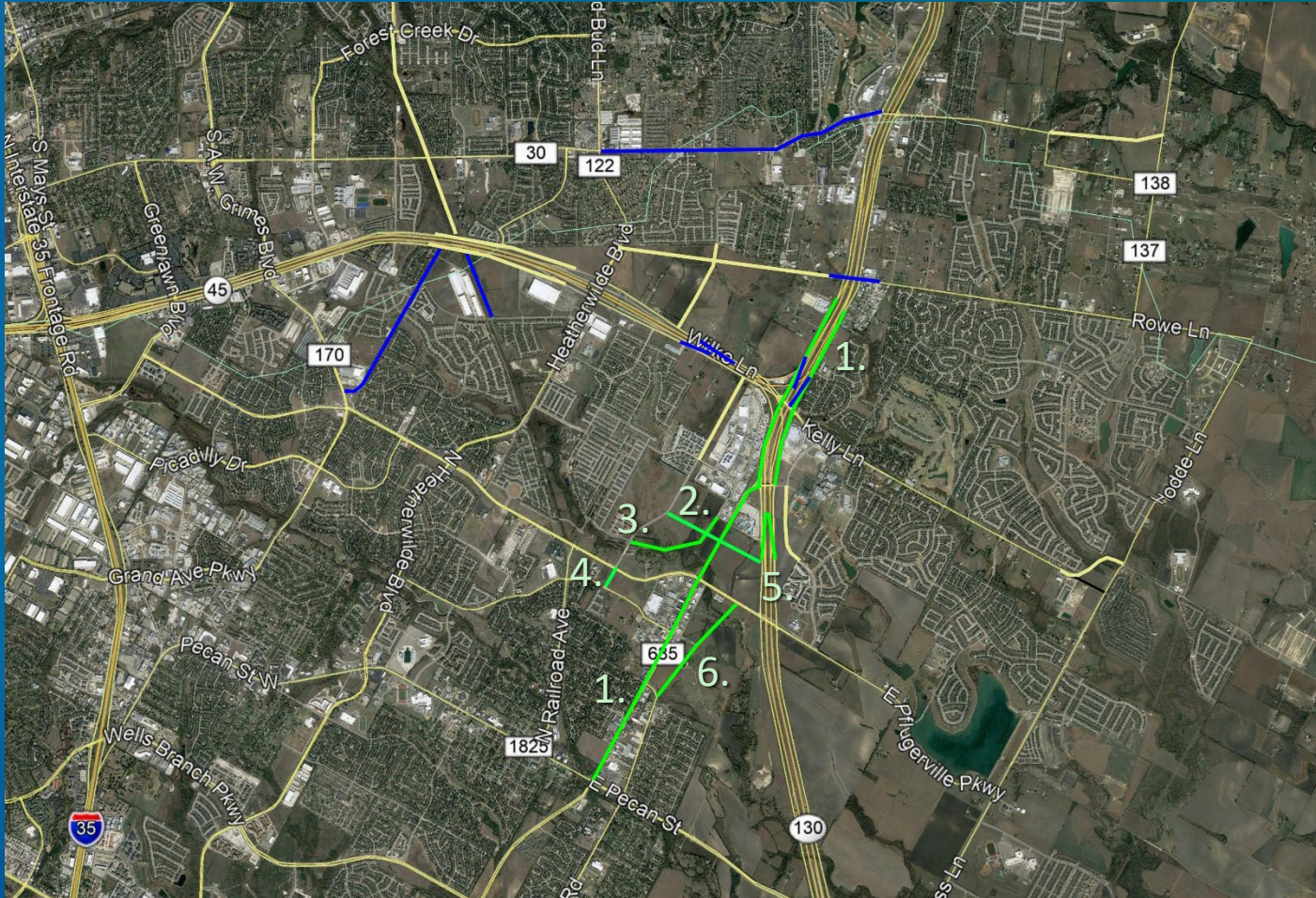
West Area:

1. Widen Gattis School Rd to six lanes - Heatherwilde to SH 130
2. Rowe Ln overpass (widen to four lanes Heatherwilde to Hodde)
3. Schultz Ln widening to four Lanes
4. Kenney Fort Blvd extension to New Meister
5. New SH 45 ramps east of Heatherwilde
6. Additional SH 130 ramps north of Kelly Ln

* Potential project funding will vary by jurisdiction



Potential Projects



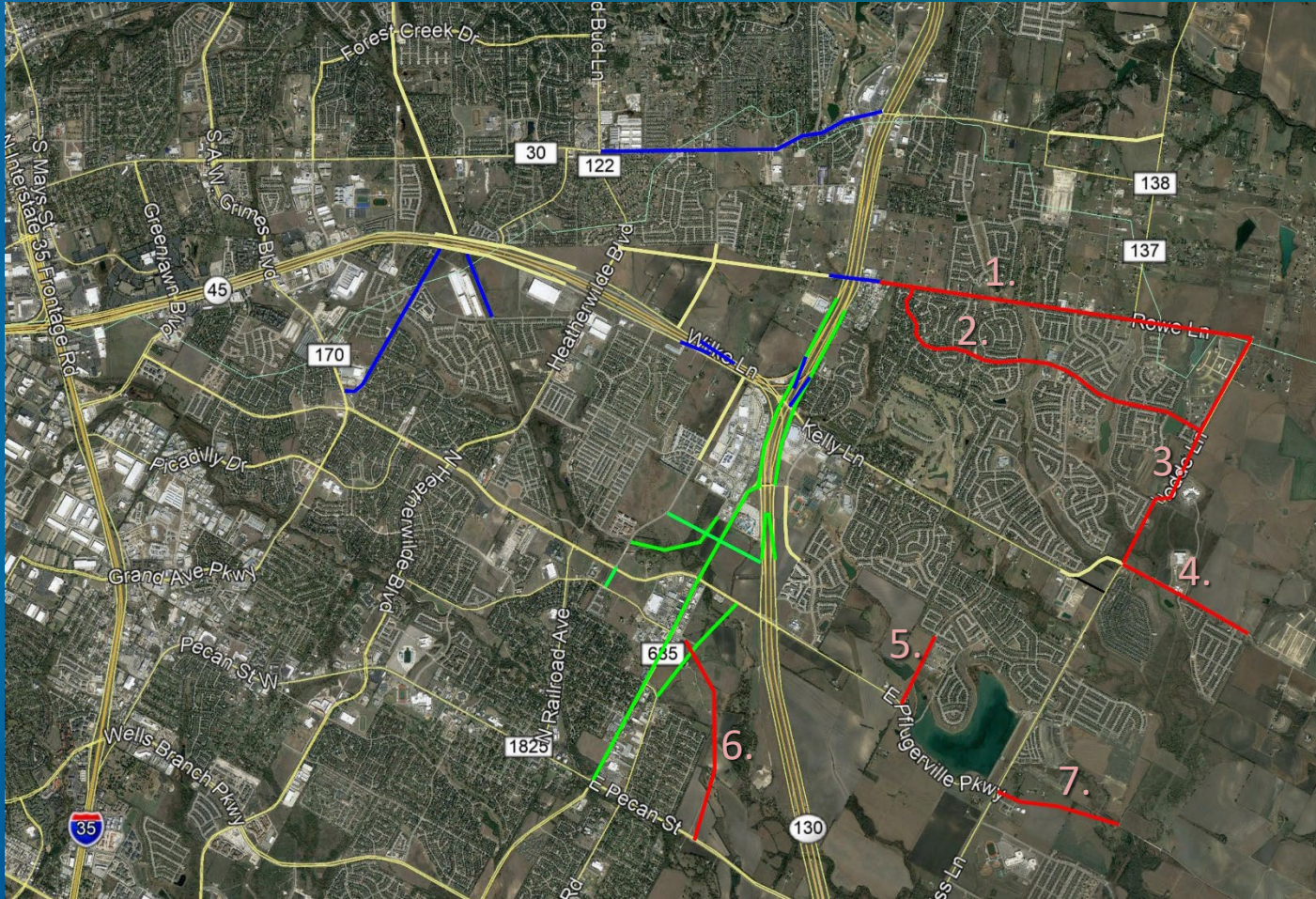
Central Area:

1. FM 685 widening (Pecan to SH 130)
2. Geraldine Rd (SH 130 SB Frontage Rd to Pfluger Farm Ln)
3. Terrell Ln extension
4. Pfluger Farm Ln south extension to Pfennig Ln
5. SH 130 ramp reversals
6. Old Austin-Hutto Rd extension

* Potential project funding will vary by jurisdiction



Potential Projects



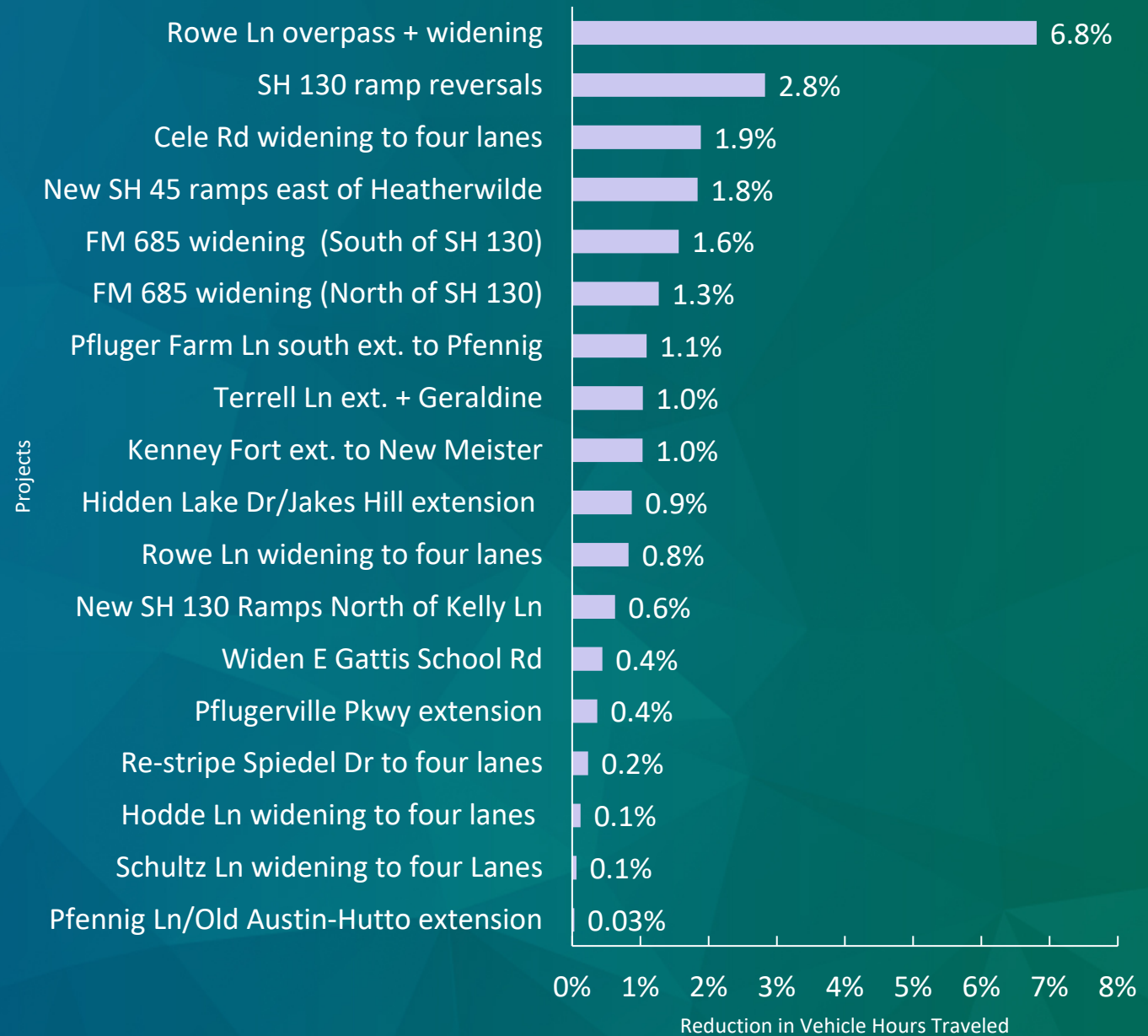
East Area:

1. Rowe Ln widening to four lanes
2. Re-stripe Spiedel Dr to four lanes
3. Widen Hodde Ln to four lanes
4. Cele Rd widening to four lanes
5. Hidden Lake Dr/Jakes Hill extension to Pflugerville Pkwy and widen to four lanes
6. Pfennig Ln Extension to Pecan St
7. Pflugerville Pkwy extension to Jesse Bohls

* Potential project funding will vary by jurisdiction



Project Impact by Reduction in Congestion



Next Steps

- City staff evaluation of projects
- Finalize recommendations
- Tech Memo



Questions and Comments

