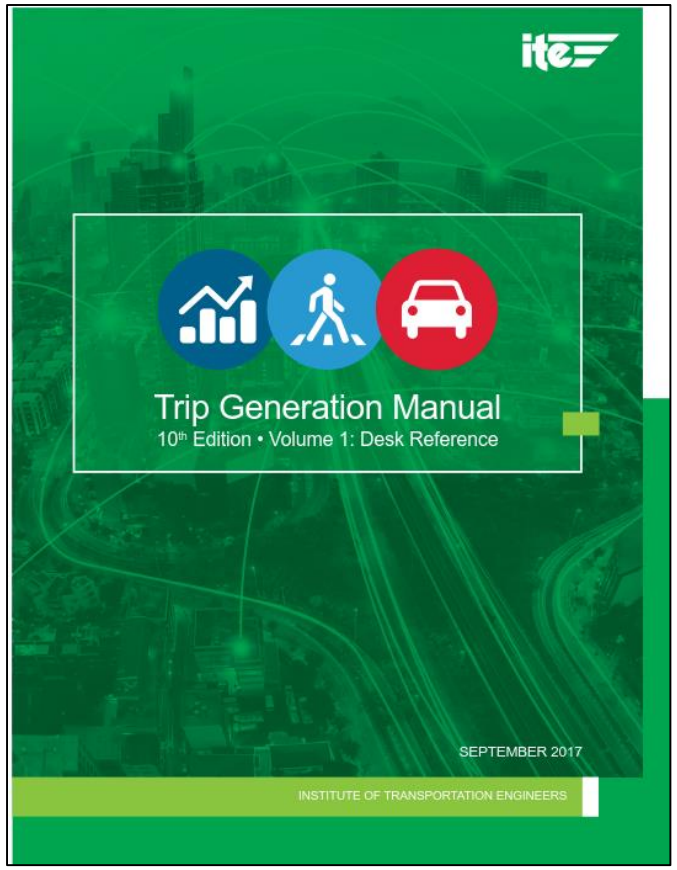
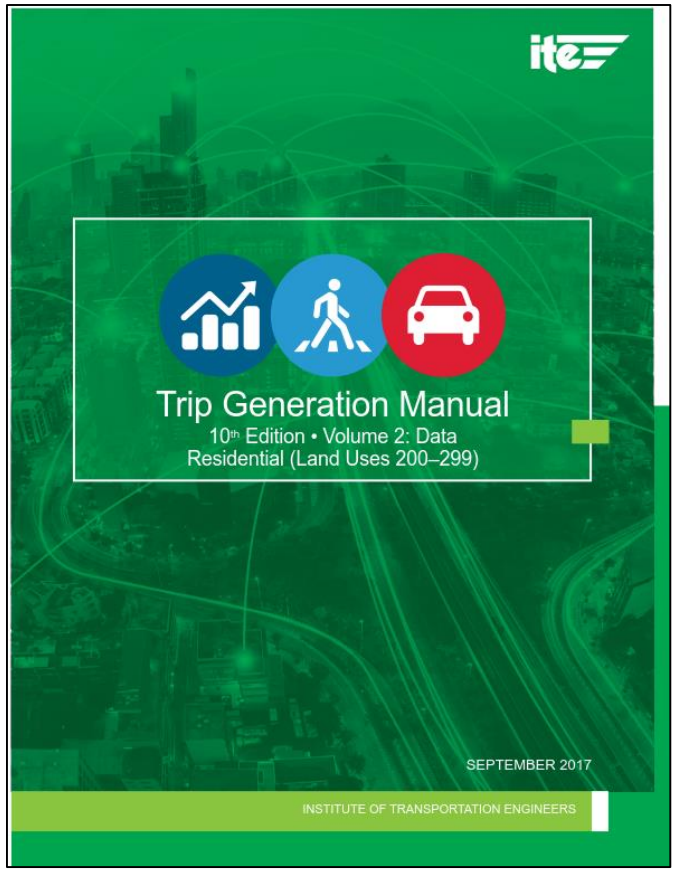
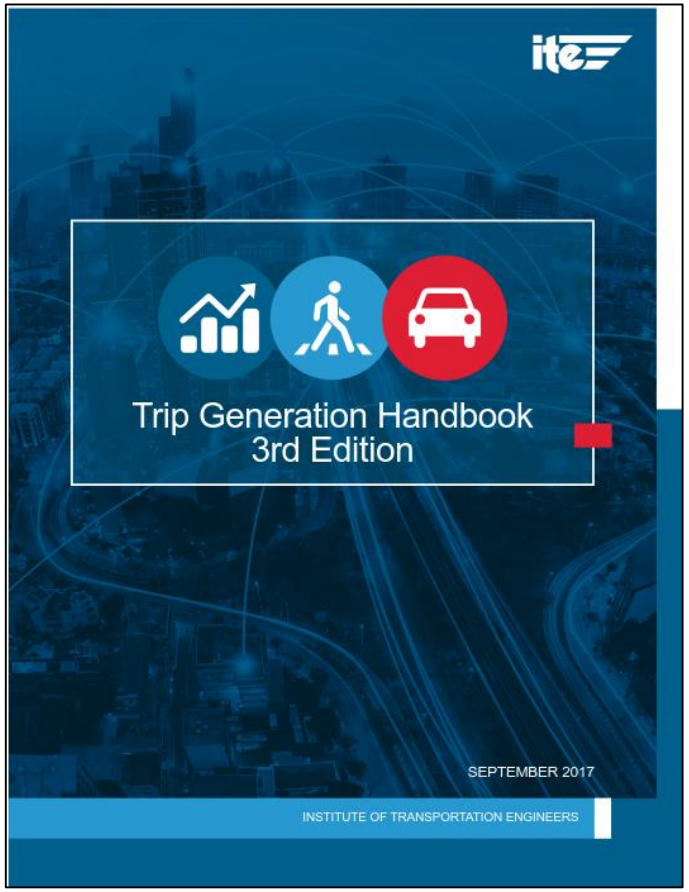
Institute of Transportation Engineers' (ITE), *Trip Generation Manual,* 10th Edition

- Industry standard for estimating project trip generation







ITE Trip Generation Land Use Comparison

Land Use	ITE Land Use Code	Scale	Afternoon Rush Hour Trip Generation
Single-Family Residential	210	144 dwelling units	144 trips
Office	710	132,000 square feet	148 trips
Retail	820	132,000 square feet	667 trips

Previously Approved 2015 Study vs. Proposed Study

Study	Morning Rush Hour Trip Generation	Northbound Trips along Alton Road from Project Driveway	Southbound Trips along Alton Road from Project Driveway
Previously Approved 2015	29 trips	7 trips	15 trips
Proposed	43 trips	11 trips	22 trips
Difference	+14 trips	+4 trips	+7 trips

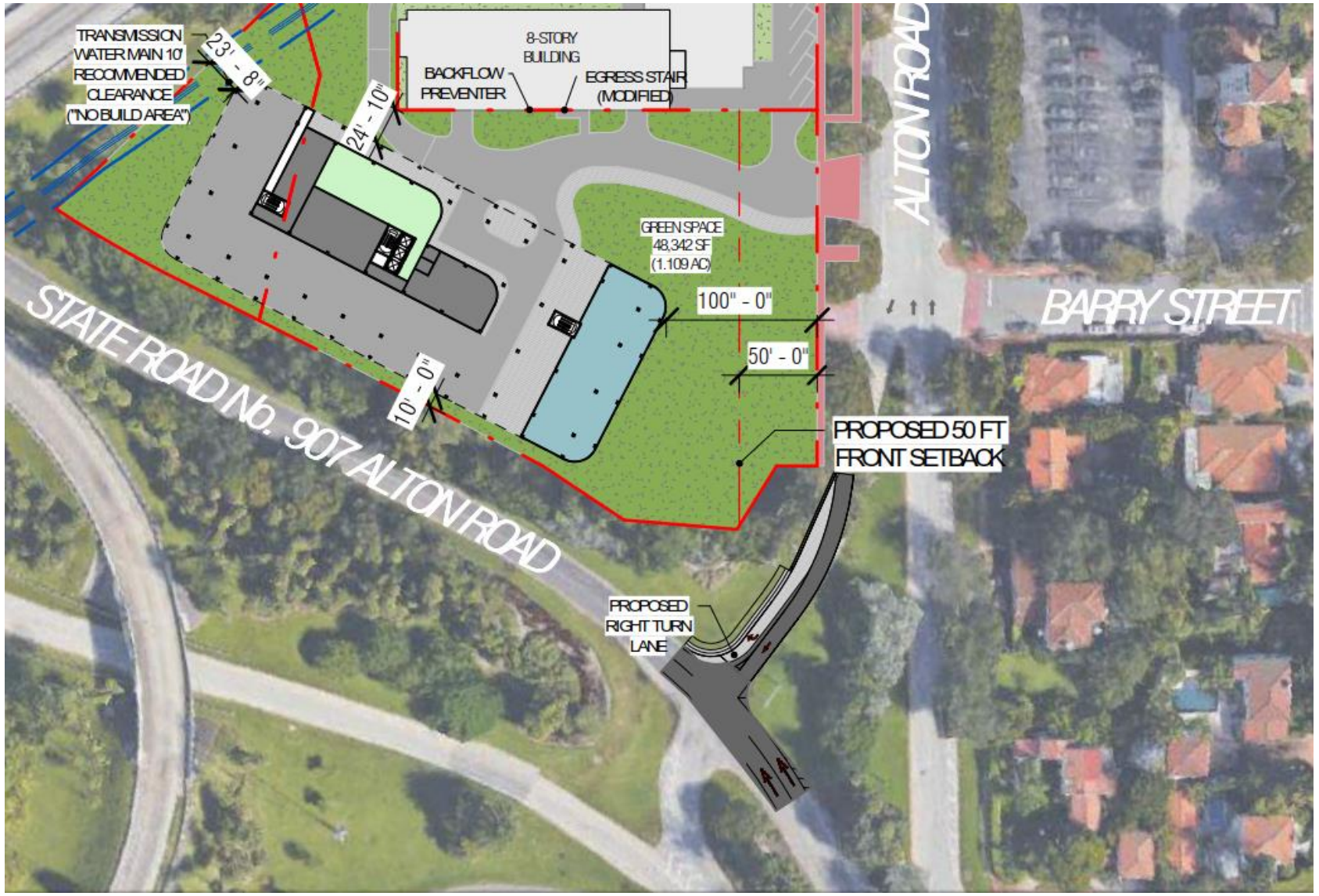
Previously Approved 2015 Study vs. Proposed Study

Study	Afternoon Rush Hour Trip Generation	Northbound Trips along Alton Road from Project Driveway	Southbound Trips along Alton Road from Project Driveway
Previously Approved 2015	29 trips	4 trips	8 trips
Proposed	47 trips	6 trips	13 trips
Difference	+18 trips	+2 trip	+5 trips

Alton Road at SR 907 Intersection

Depiction of new right-turn lane

- Introduction of new right-turn lane reduces delay:
  - 9.7% for P.M. peak hour
  - 20 second reduction in waiting per vehicle



41st Street at Alton Road Intersection

- Operates at Level of Service (LOS) C or better under all analysis conditions
  - Existing, future without project, and future with project
    - A.M. and P.M. peak hours
  - LOS D+20 Percent is adopted LOS
- Project considered de minimis as impact is less than 5% of overall intersection volumes
  - Project assigns 18 total A.M. peak hour trips (0.5% overall volumes)
  - Project assigns 26 total P.M. peak hour trips (0.7% overall volumes)
- Project not considered significant nor adverse as impact less than 5% of overall intersection delay
  - Project increases A.M. peak hour delay by 1.9% in A.M. peak hour
  - Project increases P.M. peak hour delay by 1.3% in P.M. peak hour

41st Street at Alton Road Intersection

- Project traffic on Alton Road (northbound) at 41st Street
  - 11 total A.M. peak hour trips (1 vehicle every ~ 6 minutes)
  - 6 total P.M. peak hour trips (1 vehicle every 10 minutes)
- Project results in less than 1 additional vehicle length waiting on Alton Road (northbound) at 41st Street during A.M. and P.M. peak hours