

Current Operational Constraints





Scope of Work

- Estimate year 2025 and year 2035 traffic volumes based on traffic volume counts from the Town of Zionsville Road Impact Fee and a growth rate of 1.5% per year at the following study intersections:
 - Sycamore Street & 1st Street
 - Sycamore Street & Main Street
- Balance and redistribute the traffic volumes for each scenario studied.
- Prepare a capacity analysis, level of service analysis, and queue length analysis for each of the scenarios studied.
- Prepare conclusions and recommendations based on the results of the study.



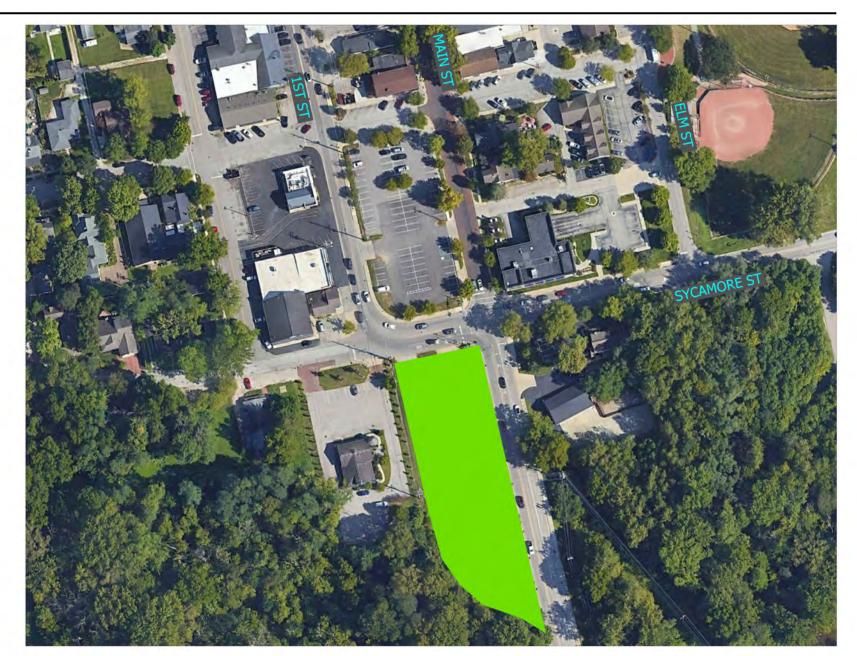
Alternatives Studied

- Scenario 1: No Build Year 2025 Traffic Volumes
- Scenario 2: No Build Year 2035 Traffic Volumes
- Scenario 3: Coordinated Signal System Year 2035 Traffic Volumes
 - Added traffic signal at the intersection of Sycamore Street & 1st Street
- Scenario 4: Moved Signal/Realignment Year 2035 Traffic Volumes
 - Move the existing signal to the intersection of Sycamore Street & 1st Street
 - Realign Main Street south of Sycamore Street to align with 1st Street
- Scenario 5: "Peanut" Roundabout Two-Way West Year 2035 Traffic Volumes
 - Reconstruct the intersections as a "peanut" roundabout
 - Realign Main Street south of Sycamore Street to align with 1st Street
- Scenario 6: "Peanut" Roundabout Two-Way East Year 2035 Traffic Volumes
 - Reconstruct the intersections as a "peanut" roundabout
- Scenario 7: "Peanut" Roundabout One-Way Year 2035 Traffic Volumes
 - Reconstruct the intersections as a "peanut" roundabout
 - One-way operation between Sycamore Street and Eagle Creek





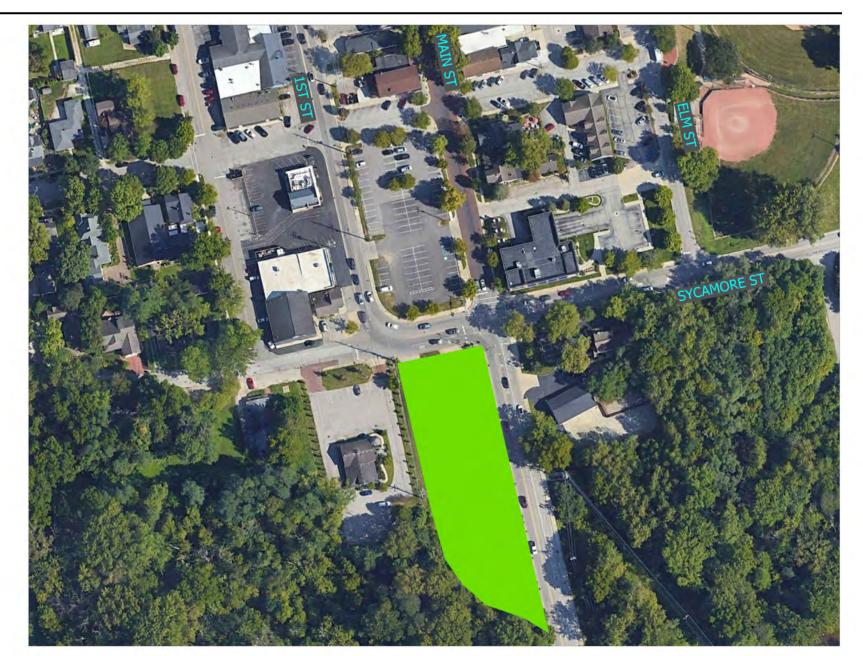
Scenario 1: No Build - 2025







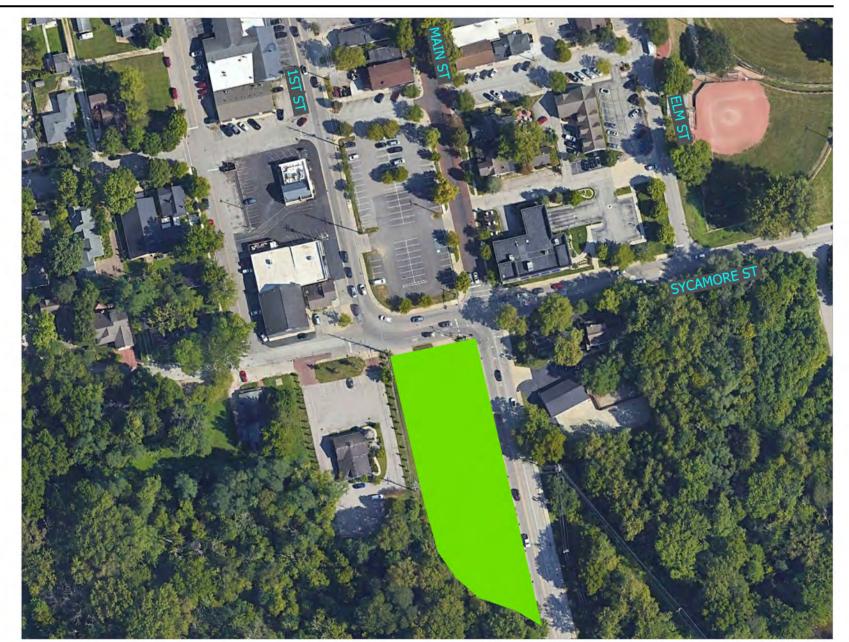
Scenario 2: No Build - 2035







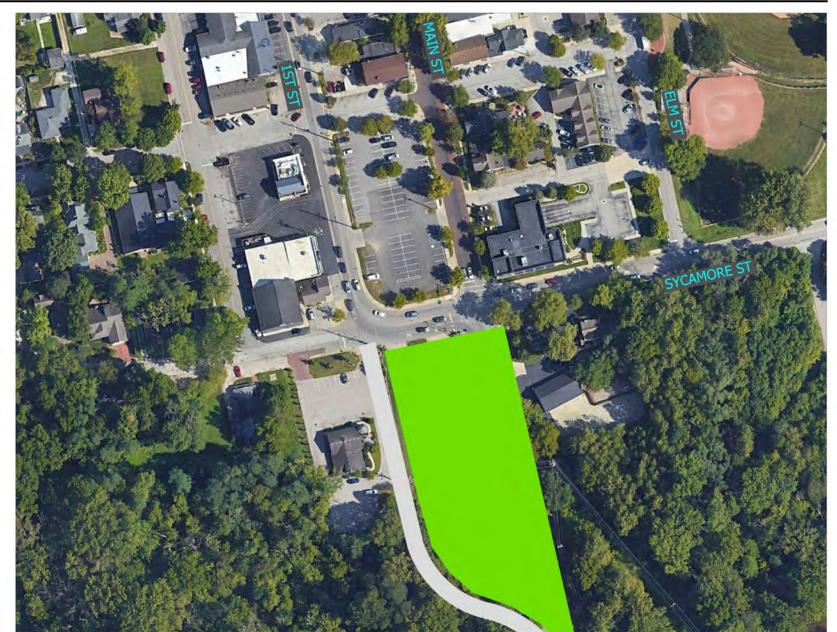
Scenario 3: Coordinated Signal System







Scenario 4: Moved Signal/Realignment







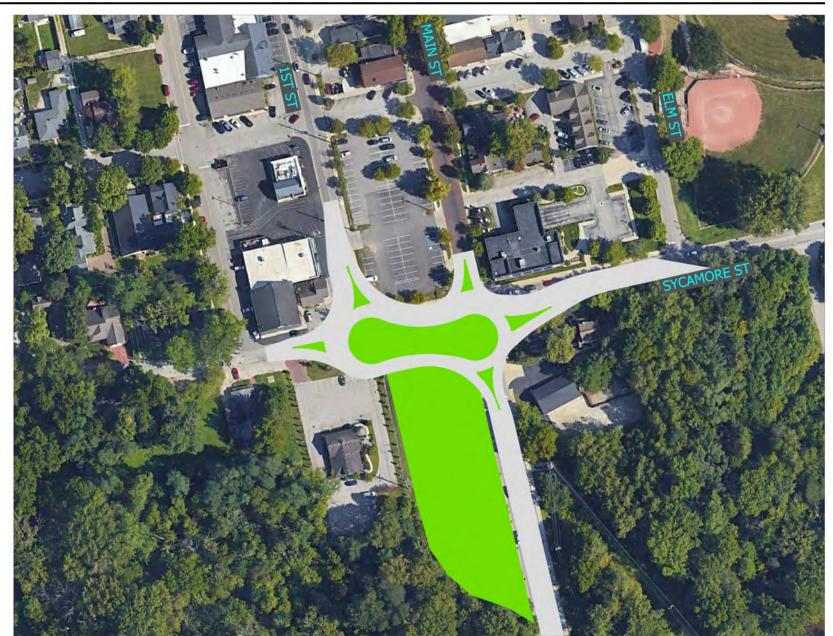
Scenario 5: "Peanut" RAB Two-Way West







Scenario 6: "Peanut" RAB Two-Way East







Scenario 7: "Peanut" RAB One-Way







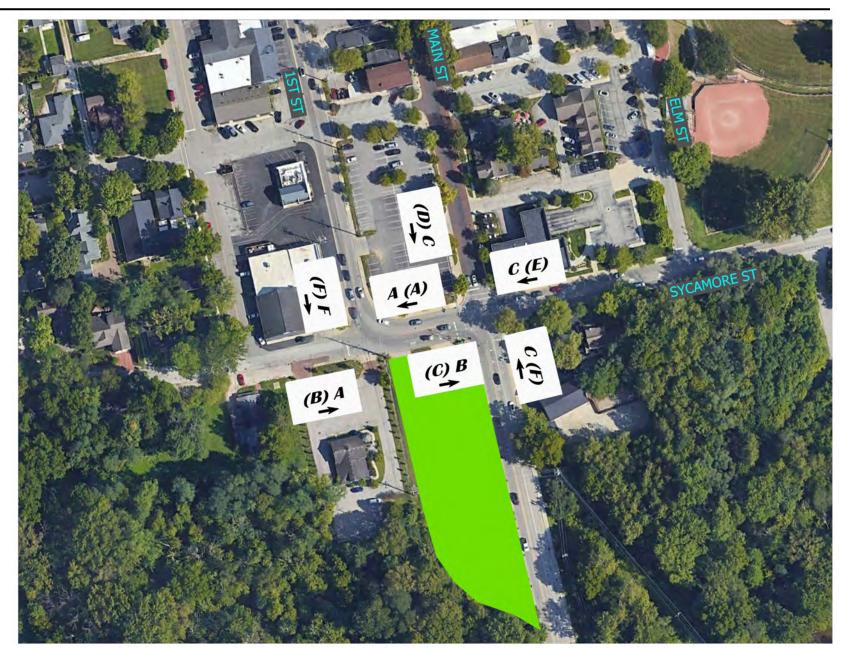
Scenario 1: No Build - 2025





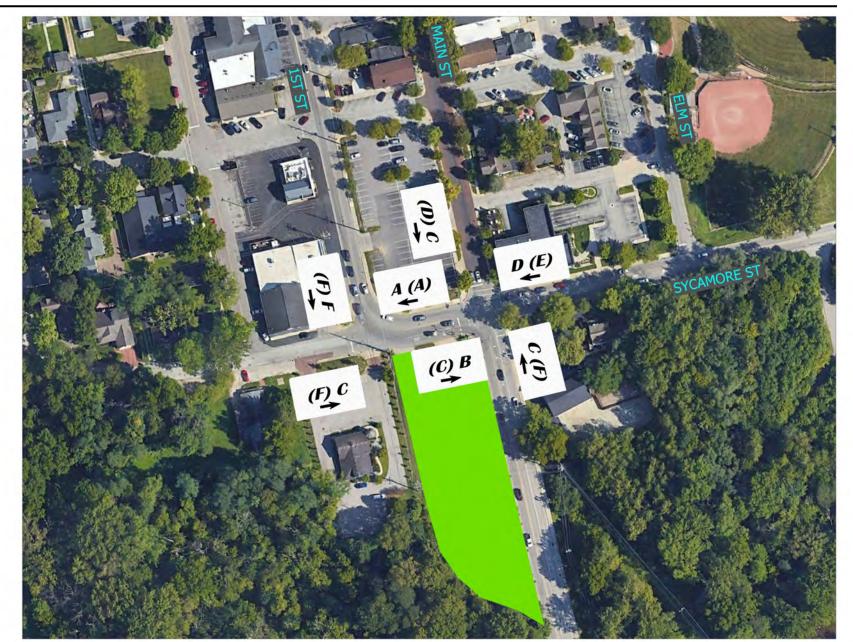


Scenario 2: No Build - 2035





Scenario 3: Coordinated Signal System







Scenario 4: Moved Signal/Realignment







Scenario 5: "Peanut" RAB Two-Way West







Scenario 6: "Peanut" RAB Two-Way East







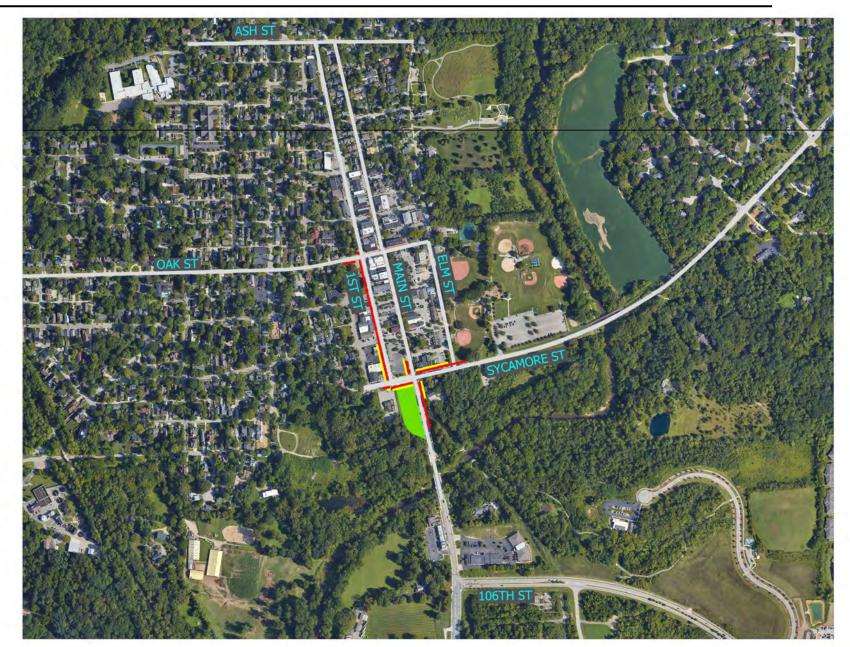
Scenario 7: "Peanut" RAB One-Way







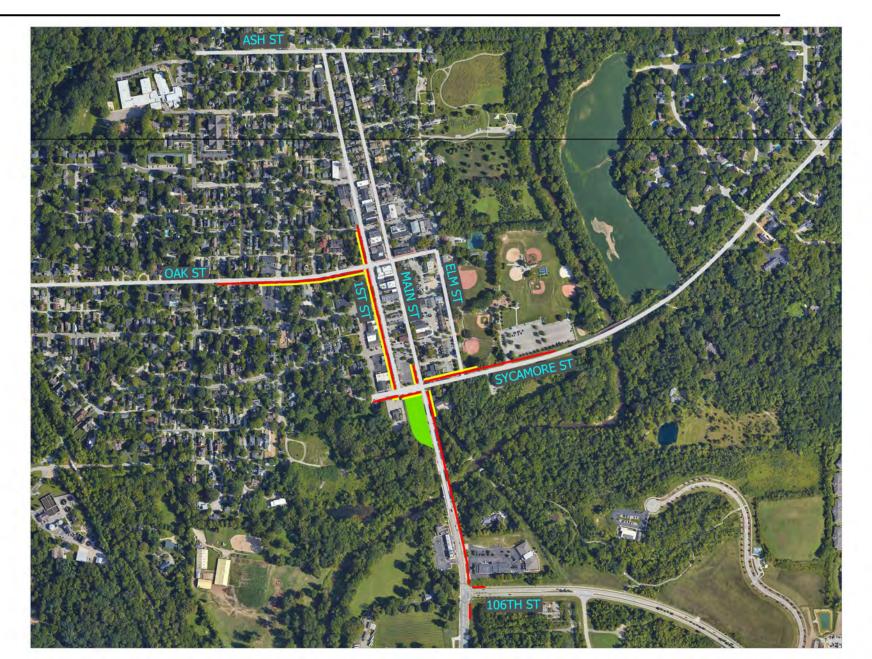
Scenario 1: No Build - 2025







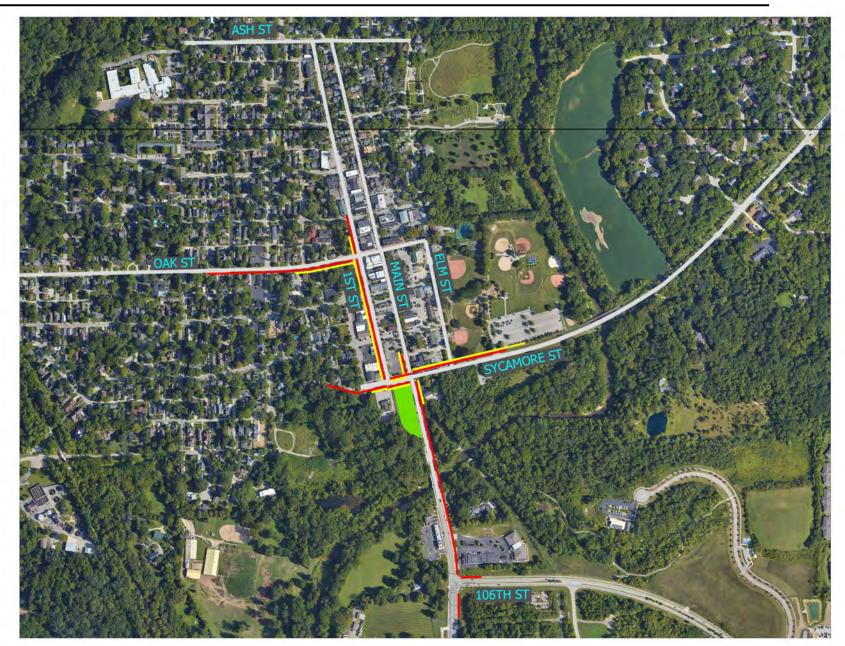
Scenario 2: No Build - 2035







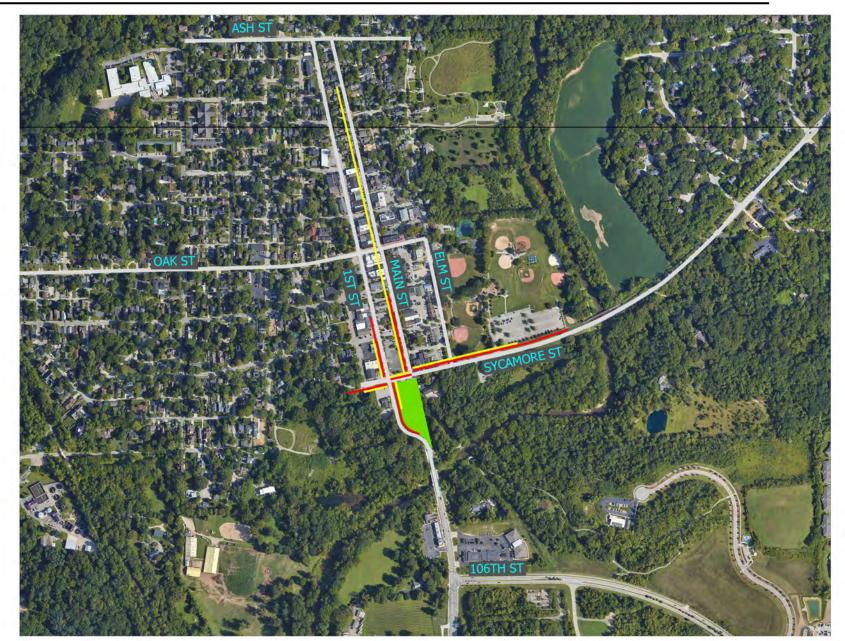
Scenario 3: Coordinated Signal System







Scenario 4: Moved Signal/Realignment







Scenario 5: "Peanut" RAB Two-Way West







Scenario 6: "Peanut" RAB Two-Way East







Scenario 7: "Peanut" RAB One-Way







