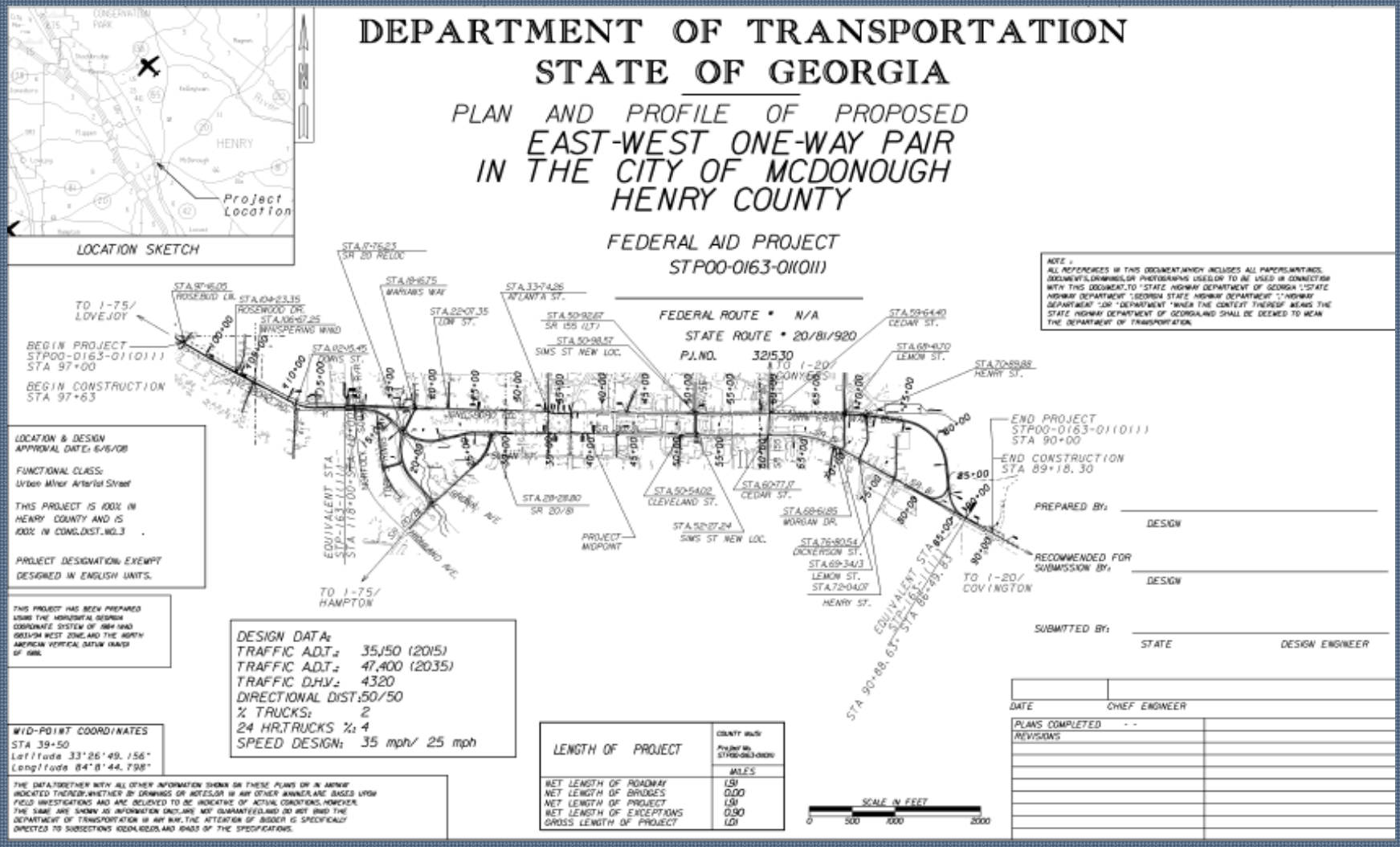
Georgia Department of Transportation

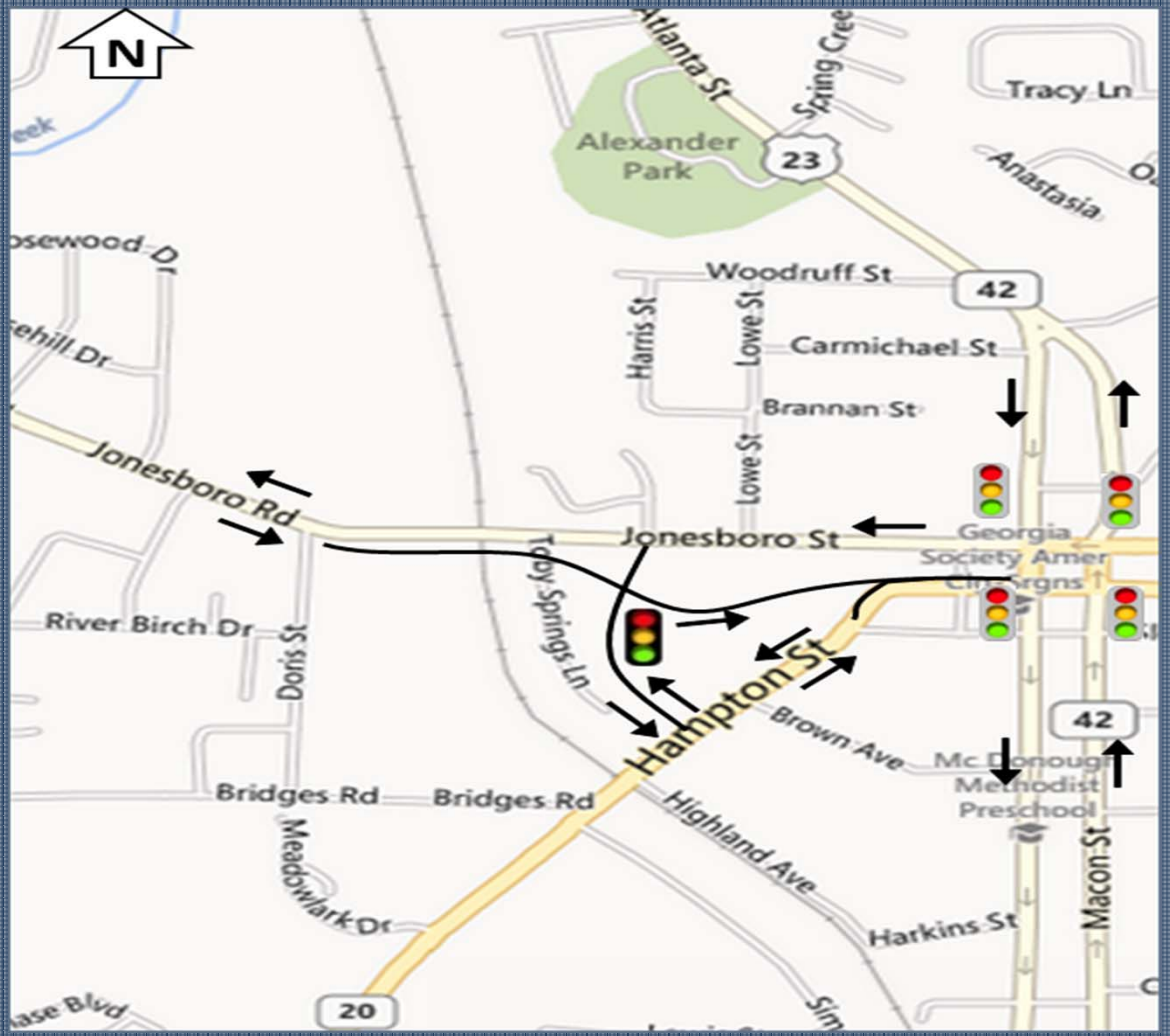
East-West One-Way Pair from West of NS #718408K to East of Henry St

P.I. 321530-

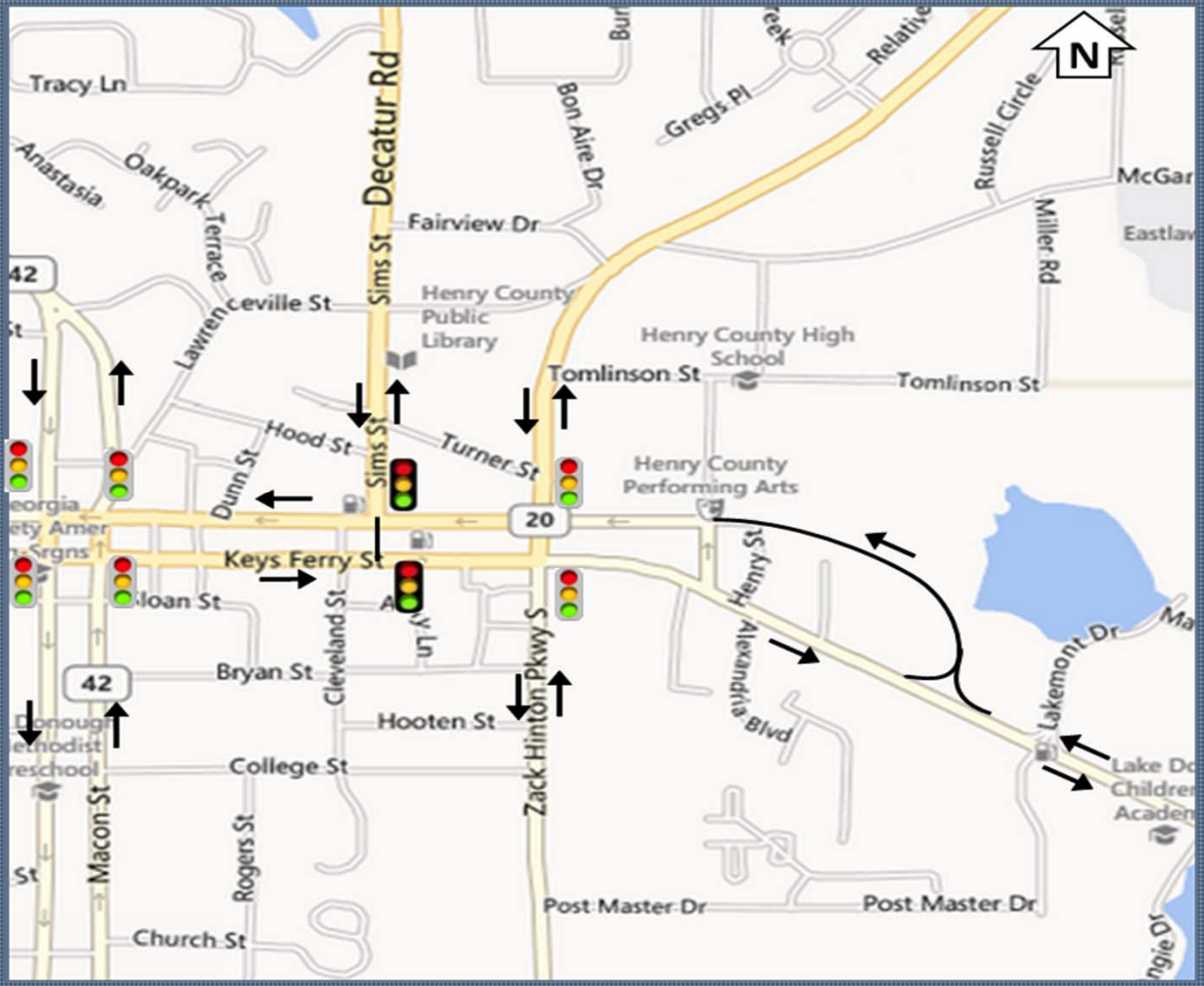
Project Limits



Proposed Improvements
(West of the Downtown Square)



Proposed Improvements
(East of the Downtown Square)



Meeting:

City of McDonough with Russell McMurry and Todd Long

January 2013

City of McDonough concerns:

- Two-way traffic vs. One-way traffic
- Sloan Street and Brown Avenue impacts
- Driving folks to "County" retail centers on Jonesboro Rd rather than "City" retail centers on SR 20/81
- Jonesboro Street from the Square to the RR crossing
- Eastside roundabout

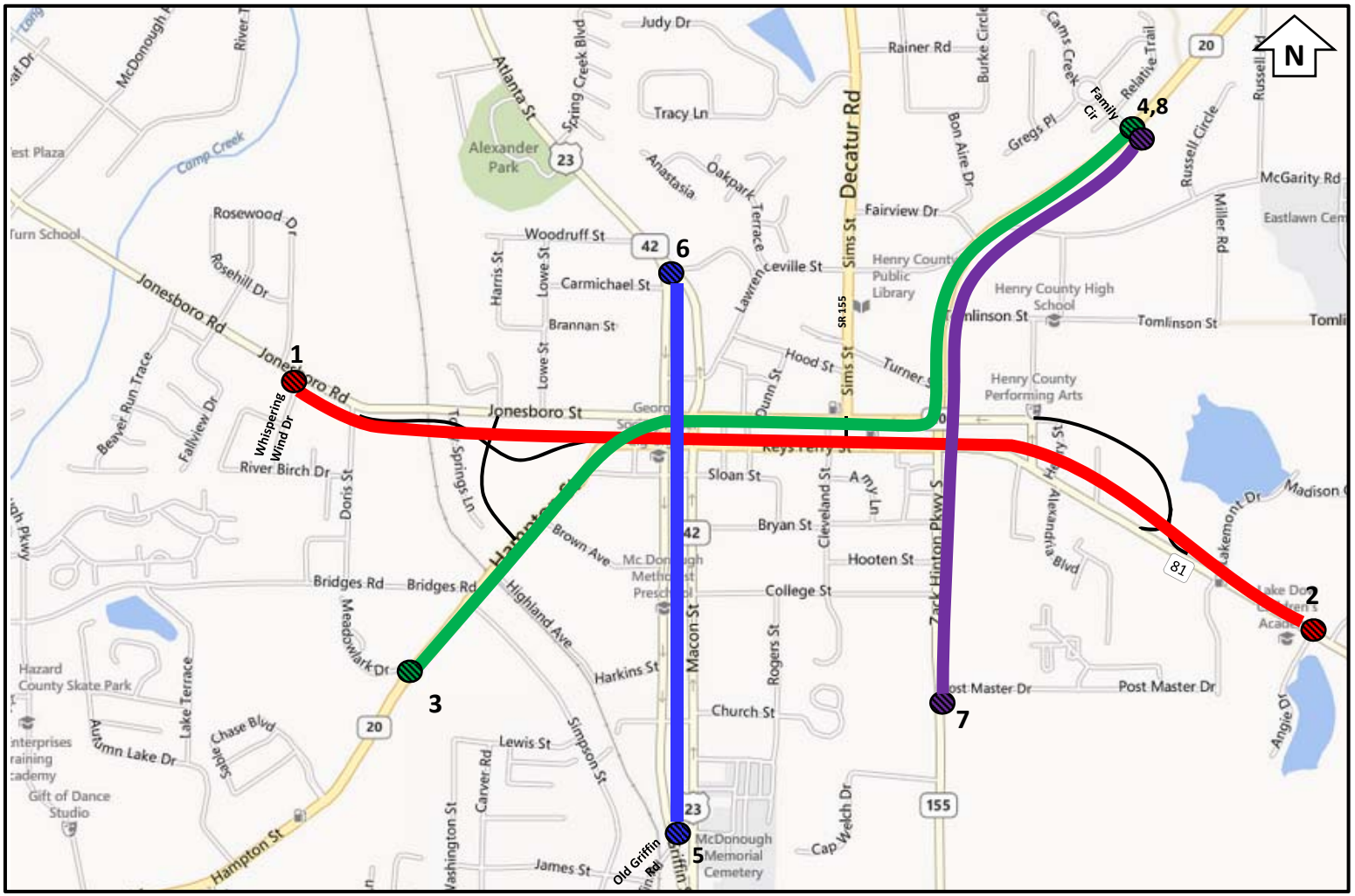
Meeting:
City of McDonough with GDOT Staff
July 2013

- Connect Brown Ave to Lowe St.
- Corrections along Jonesboro St from NS RR to the Downtown Square
  - Fixed grates
  - Sidewalks
  - ADA ramps
  - Deep mill
  - Gutter reclamation
- Gateways to the City of McDonough
  - SR 20/81 at Postmaster Rd
  - Jonesboro Rd at Doris St (near future Alexander Park)
- City of McDonough stormwater project
- Presentation of Two-Way Alternative

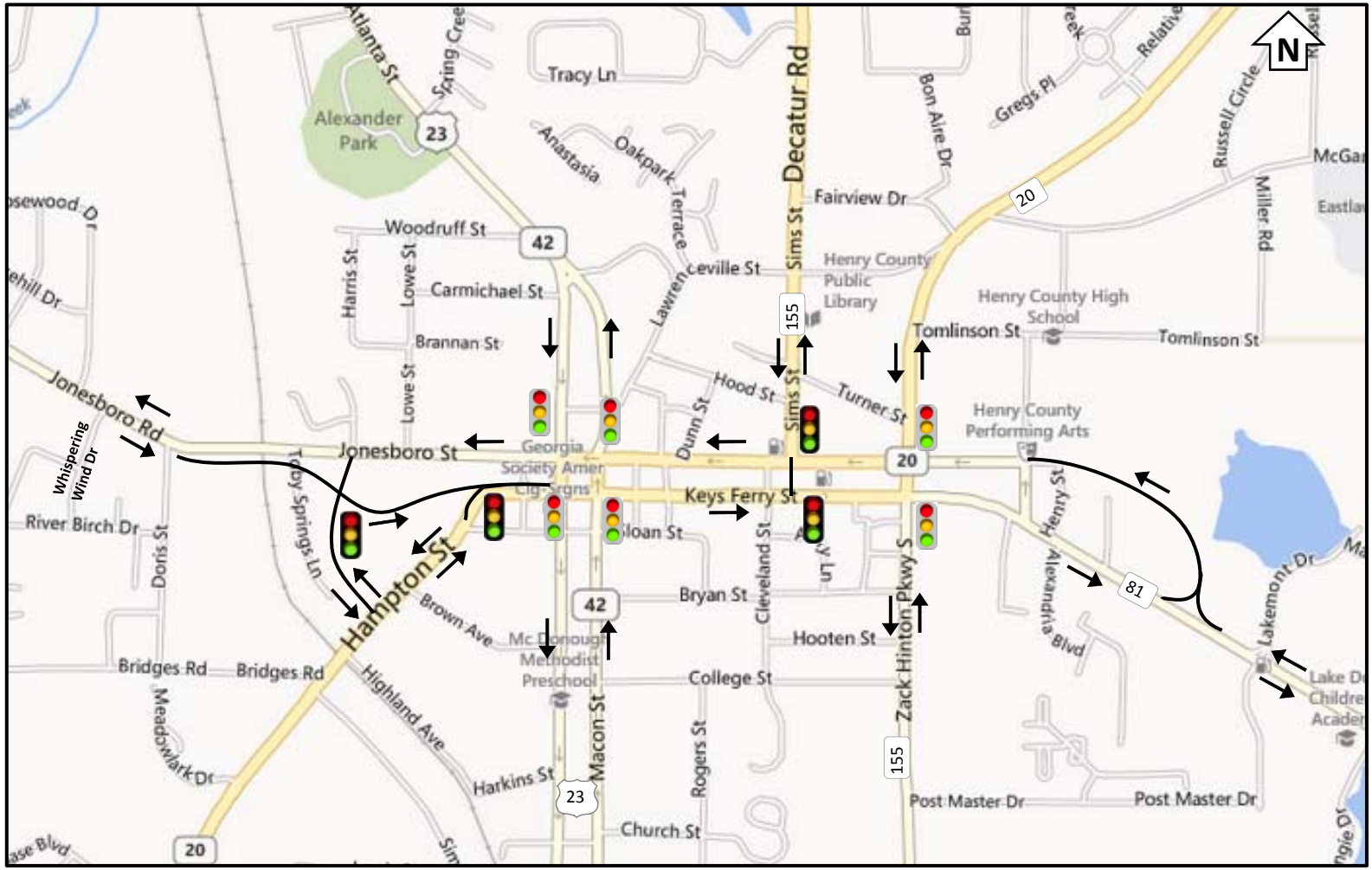
Project Update

- Design
  - Final Plans
- Right of Way Acquisition
  - Condemnations currently being resolved
- Environmental
  - Need to update all Special Studies (no change)
  - Public Information Open House (PIOH) Meeting
  - Will require 9 months to certify
- Utility coordination
  - Georgia Power (prior rights concern)
  - Railroad Signal Upgrades will require a 3 – 5 day road closure
  - Redo SUE plus 150 days for Final Relocation submittals
- Present City of McDonough with results of traffic modeling

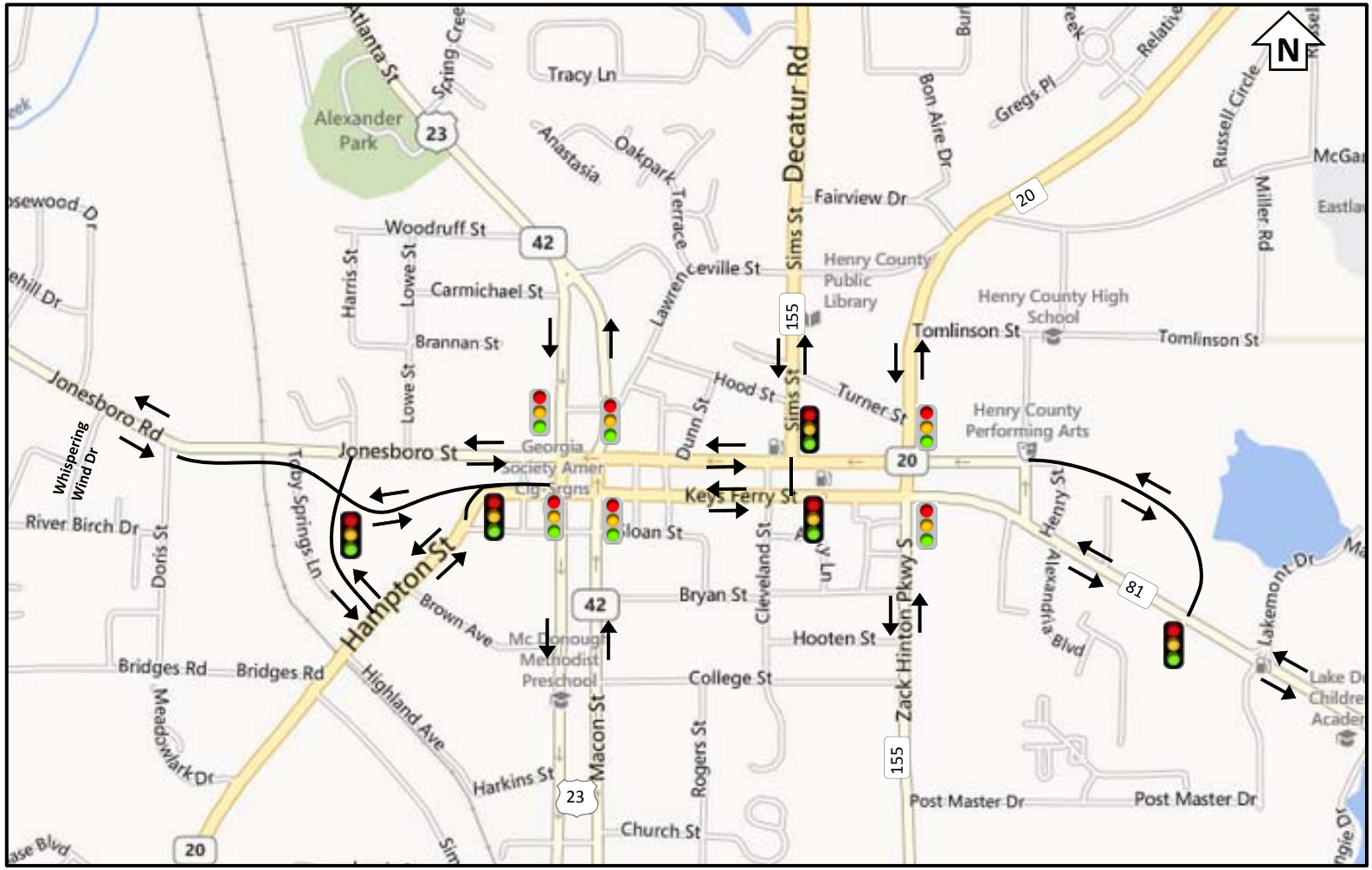
Travel Time Corridor Routes



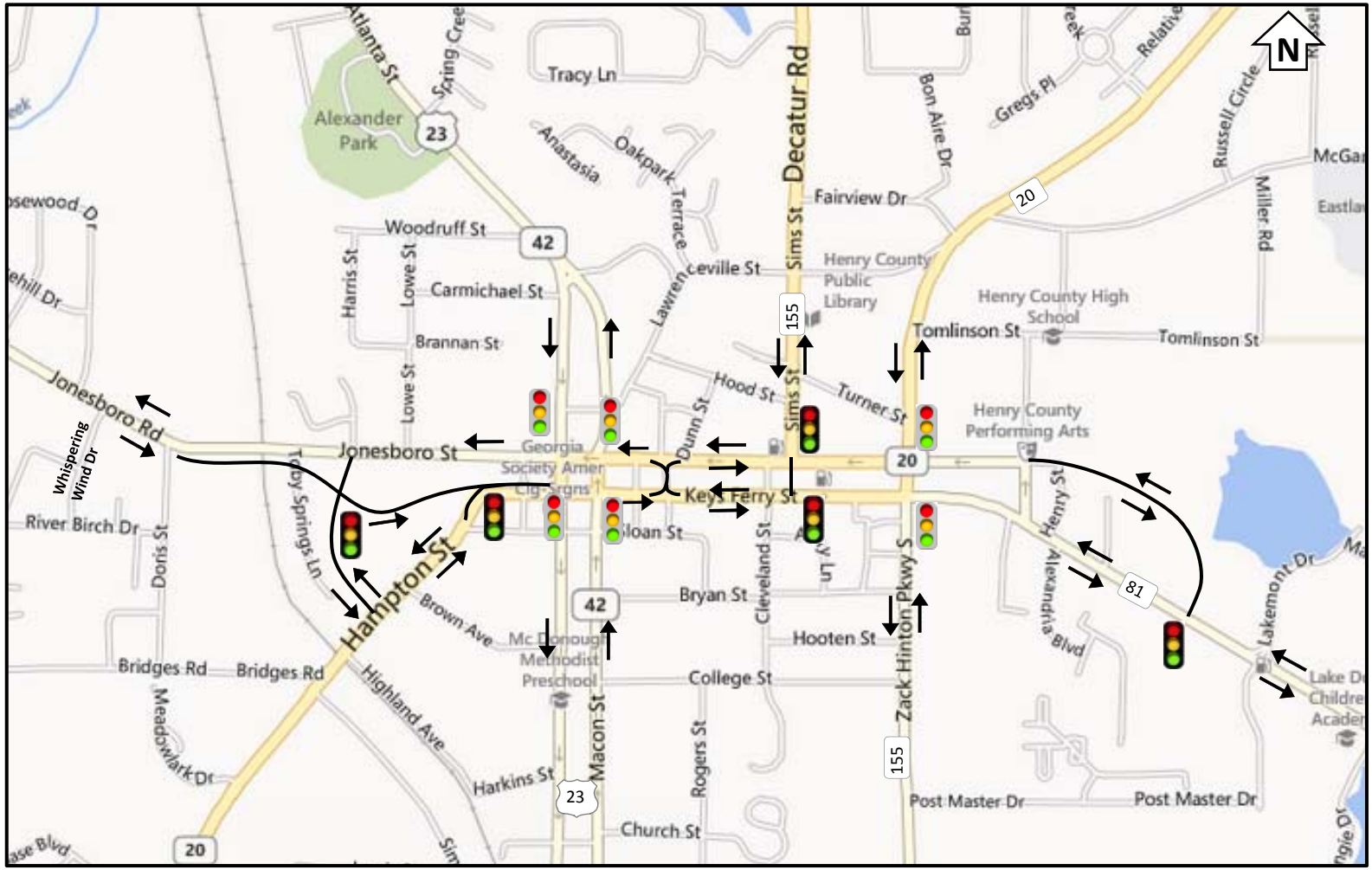
Alternative 1



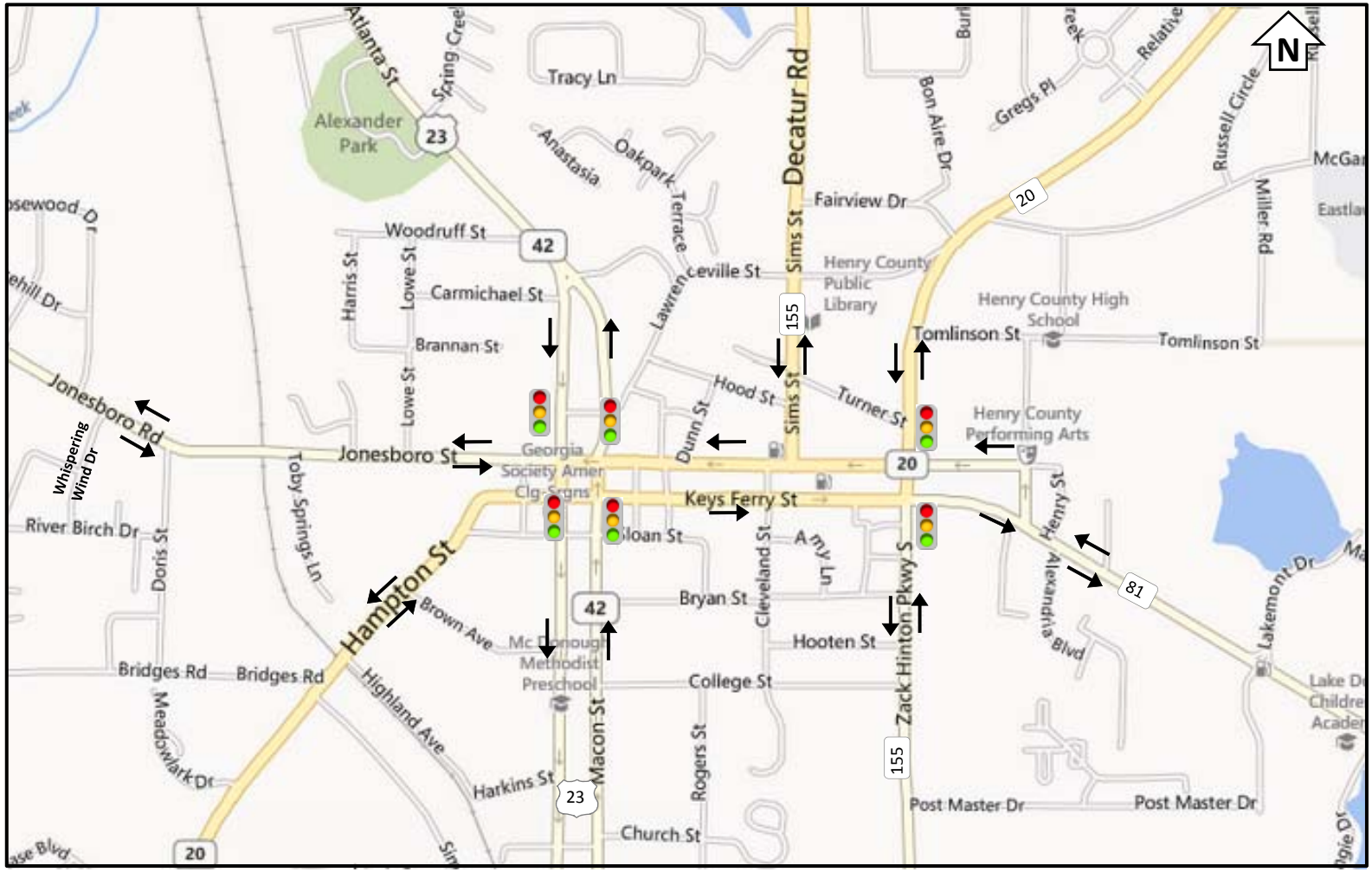
Alternative 2



Alternative 3

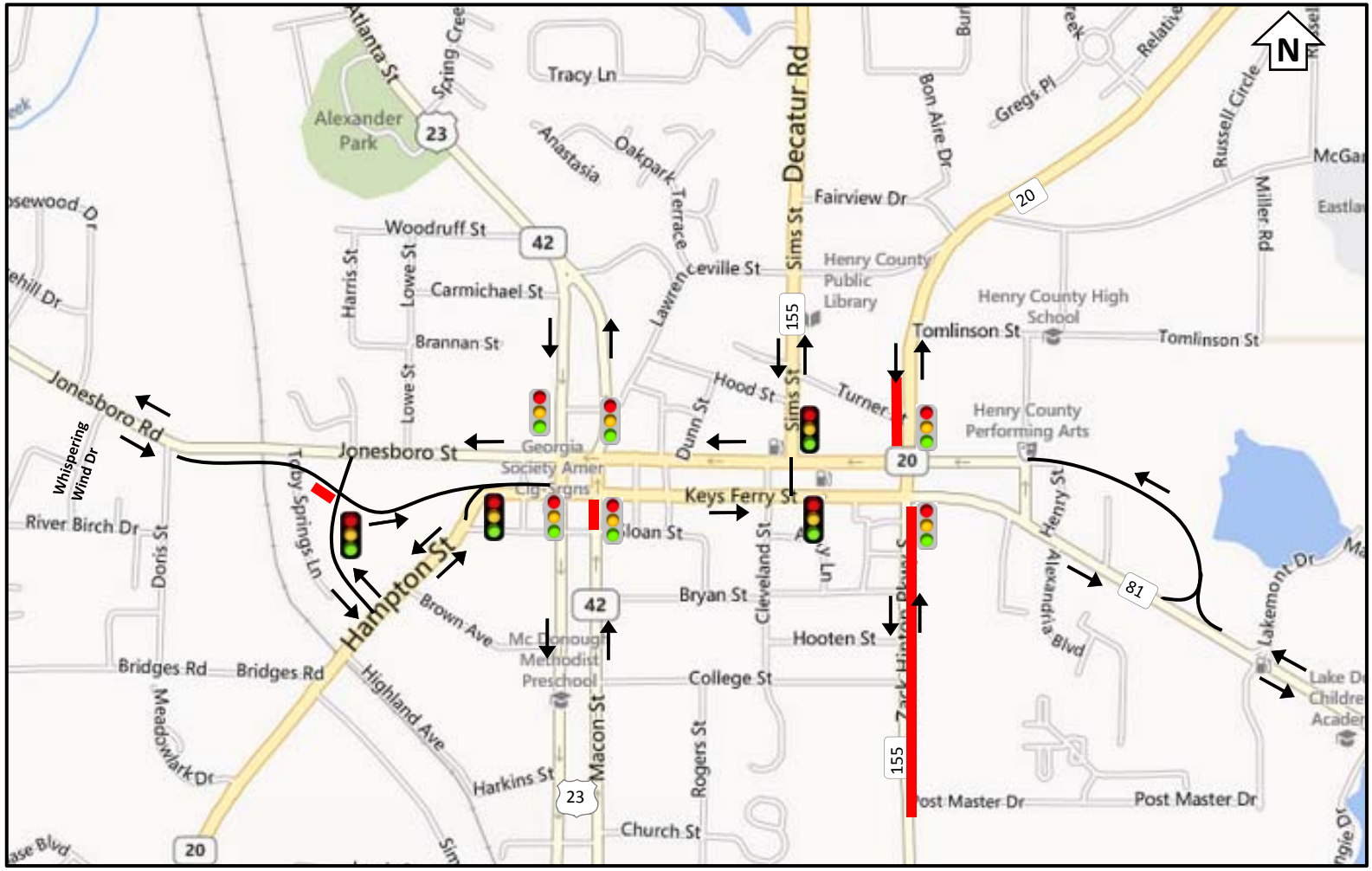


Existing (Alternative 4 No Build)



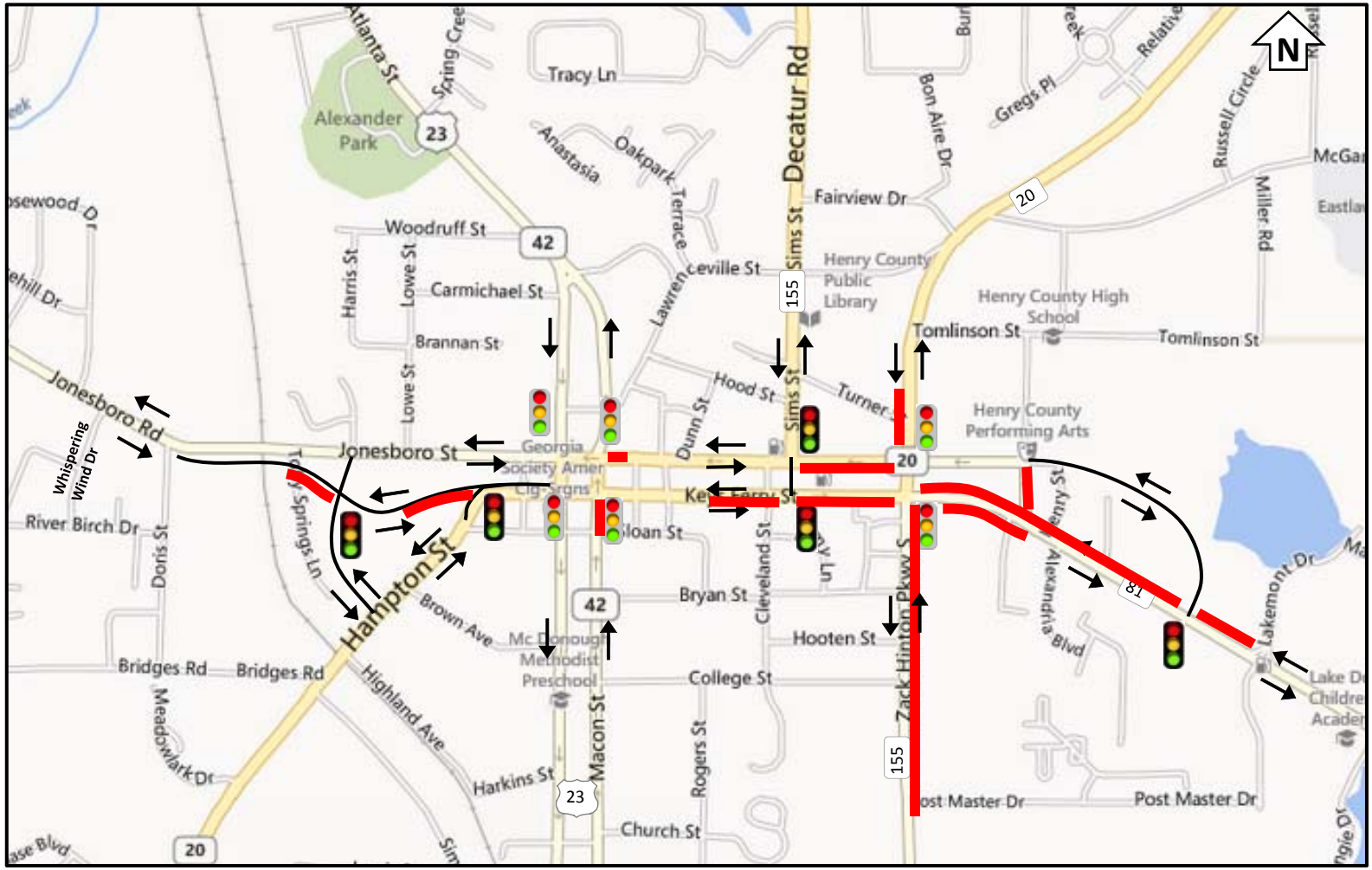
Alternative 1

2039 AM: Observed Simulation Queuing



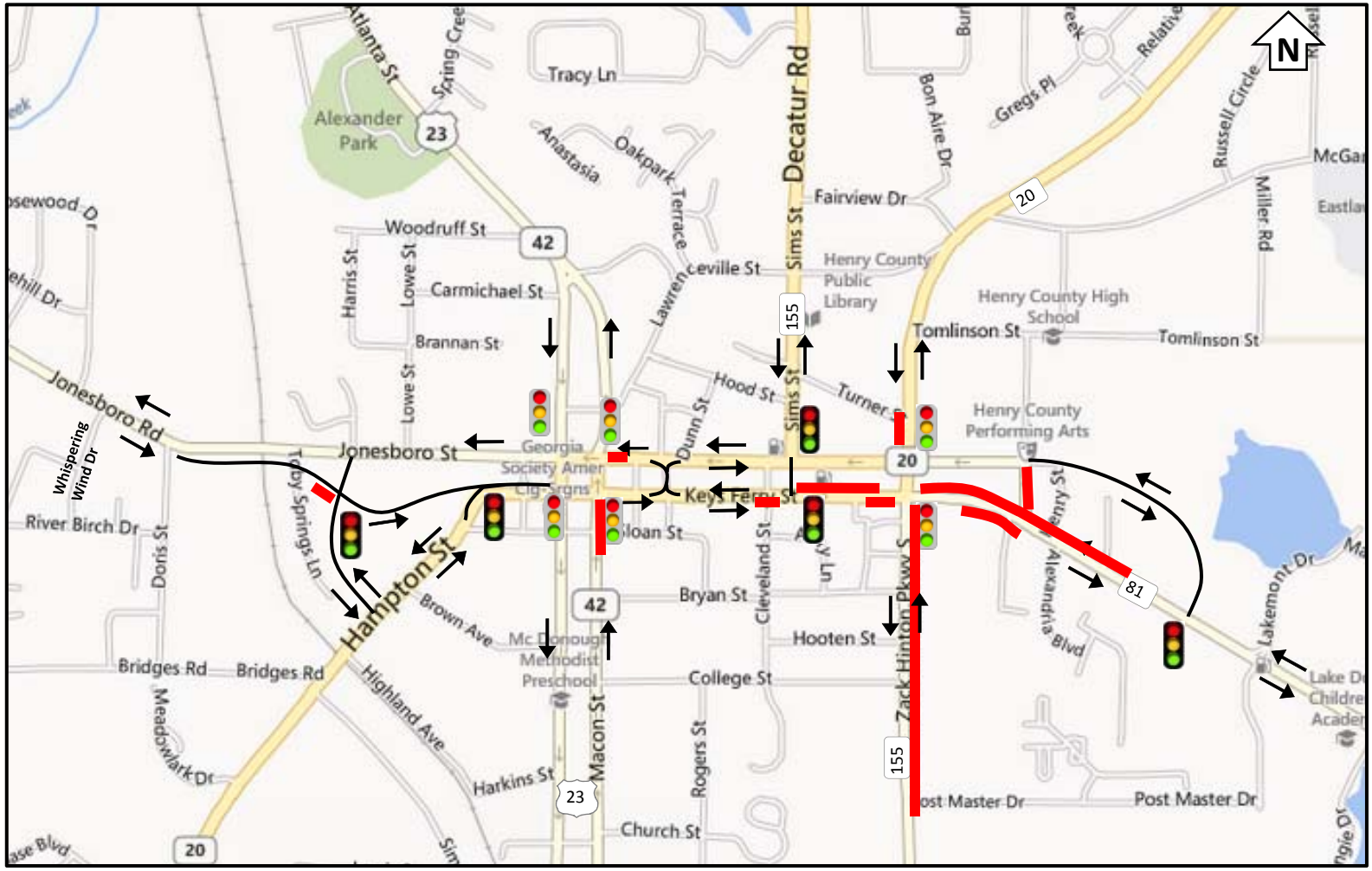
Alternative 2

2039 AM: Observed Simulation Queuing



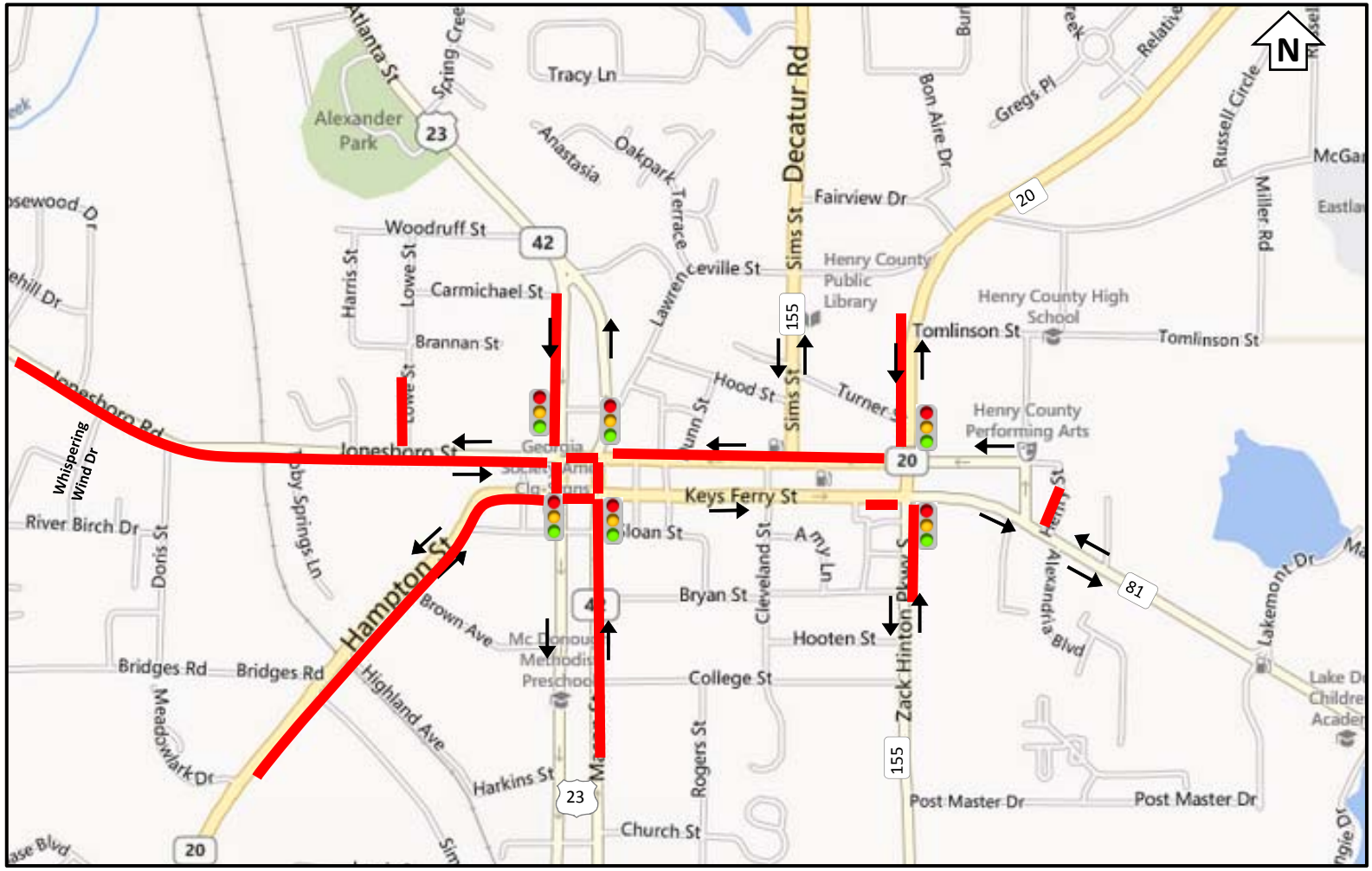
Alternative 3

2039 AM: Observed Simulation Queuing



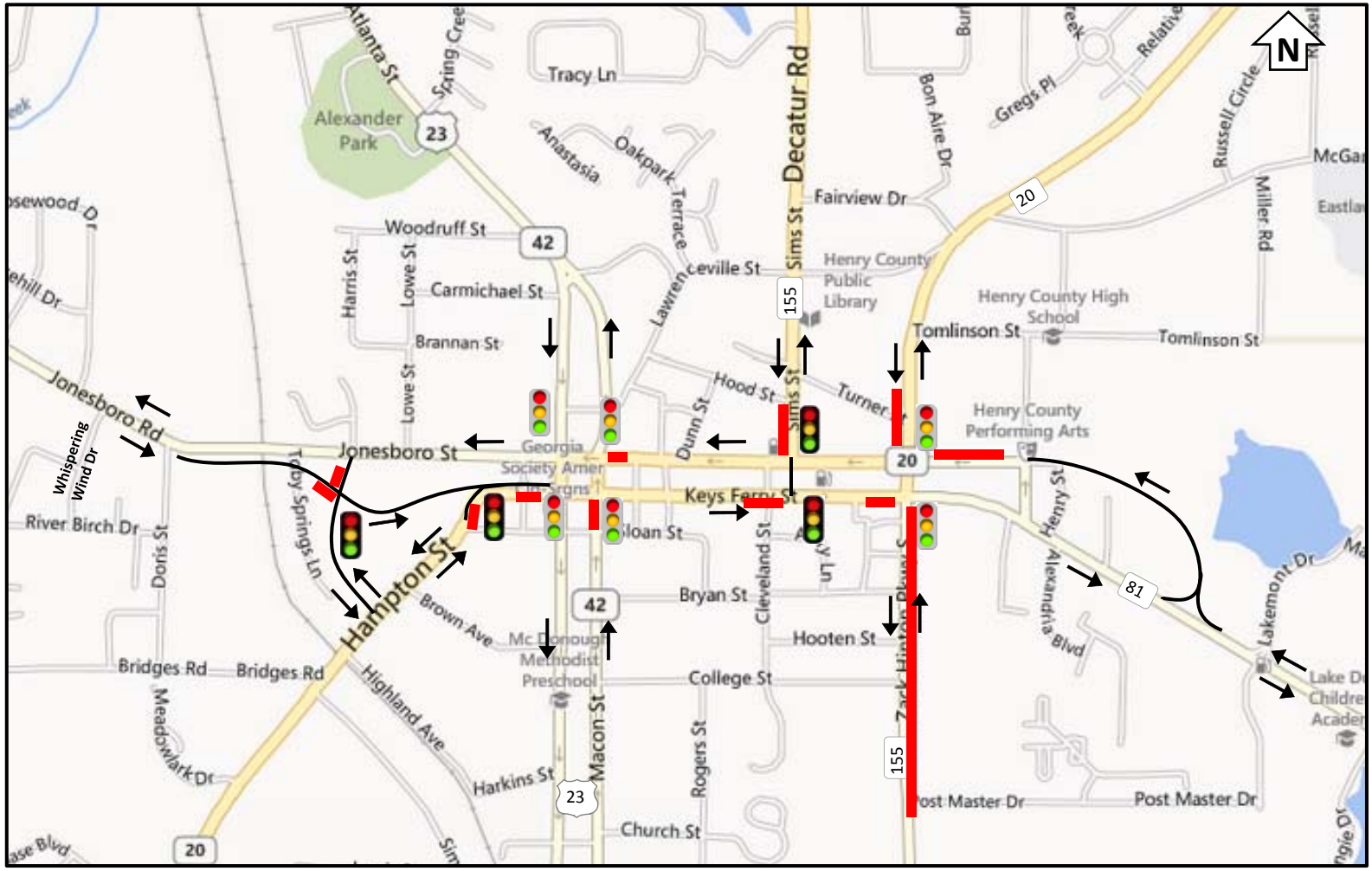
Alternative 4 (No Build)

2039 AM: Observed Simulation Queuing



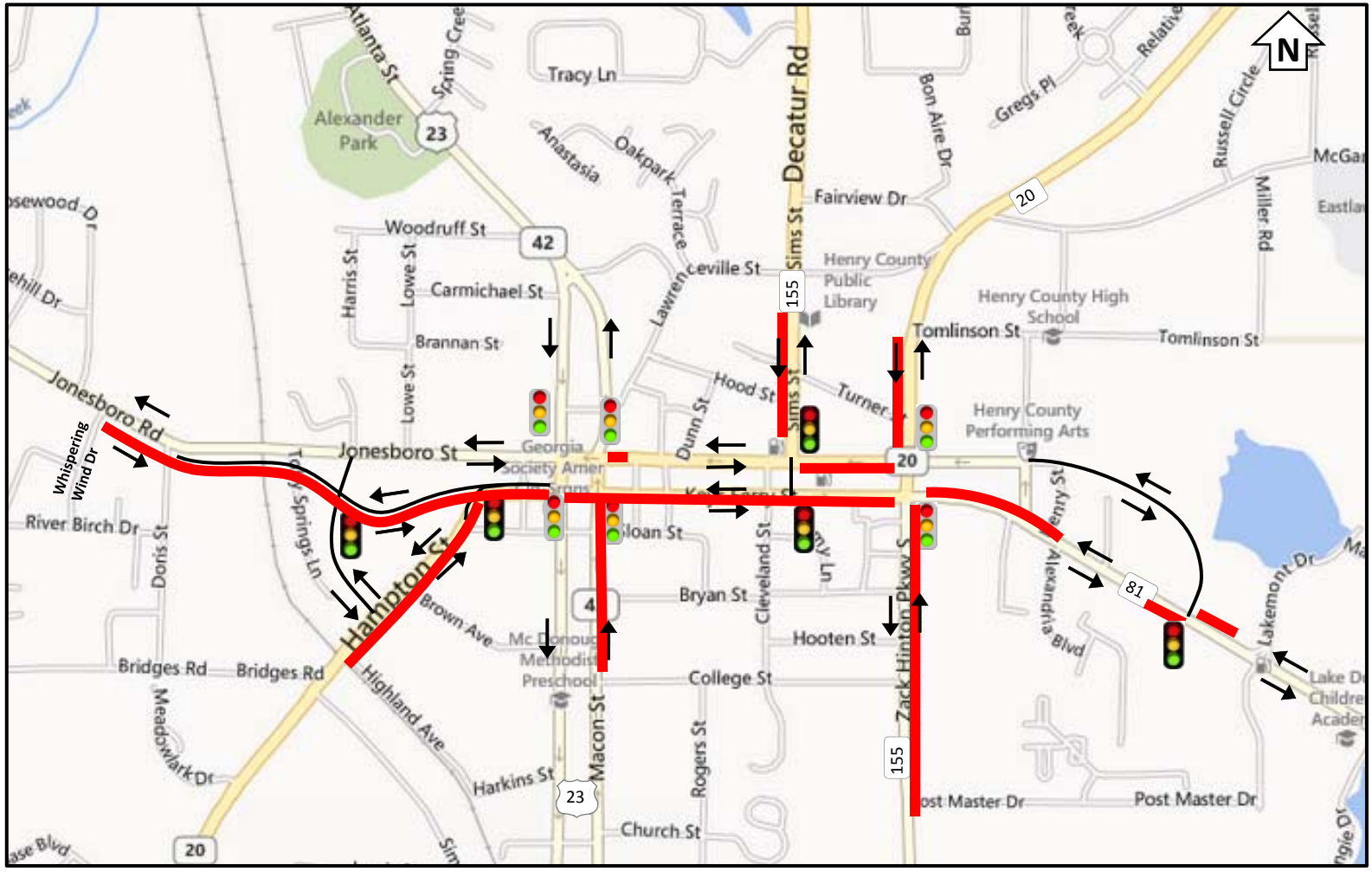
Alternative 1

2039 PM: Observed Simulation Queuing



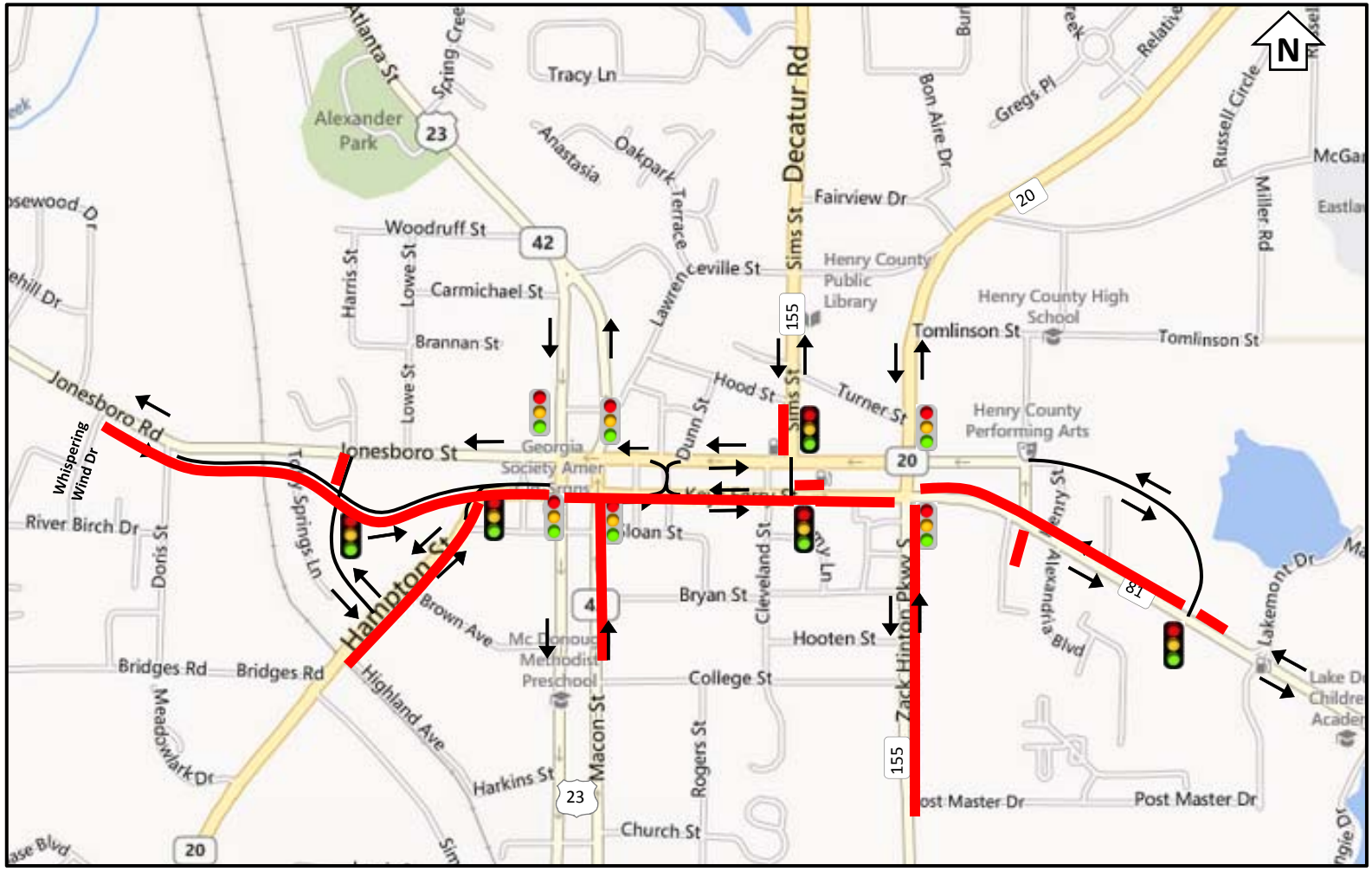
Alternative 2

2039 PM: Observed Simulation Queuing



Alternative 3

2039 PM: Observed Simulation Queuing



Alternative 4 (No Build)

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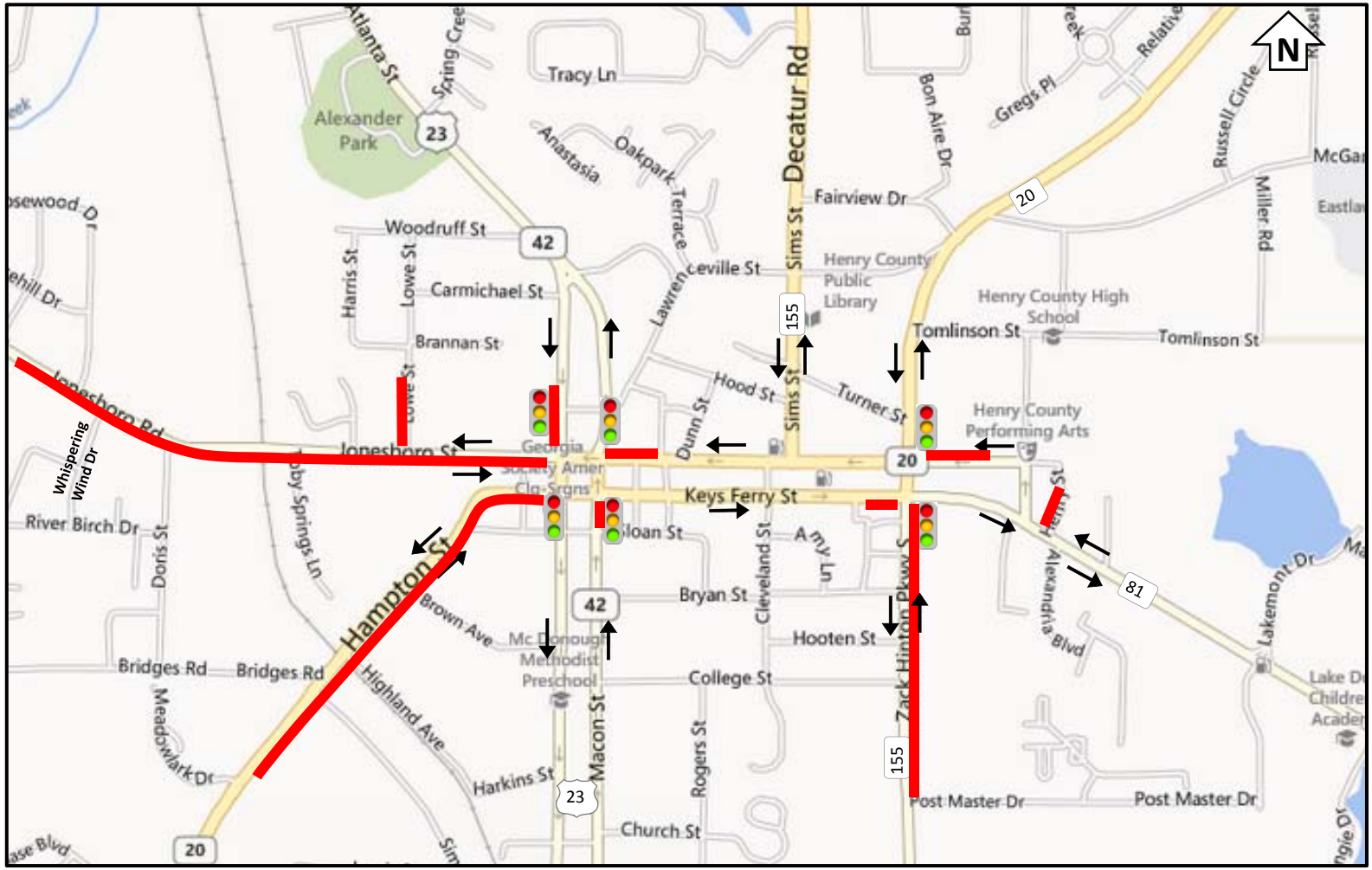


Operational Level of Service

	LOS	Travel Speed as a Percentage of Base Free-Flow Speed	Travel Speed Range for BFFS 35 mph
Desirable	A	> 85 %	> 29.75
	B	> 67 - 85 %	23.33 - 29.75
	C	> 50 - 67 %	17.50 - 23.33
Acceptable	D	> 40 - 50 %	14.00 - 17.50
Undesirable	E	> 30 - 40 %	10.50 - 14.00
Failing	F	≤ 30	< 10.50

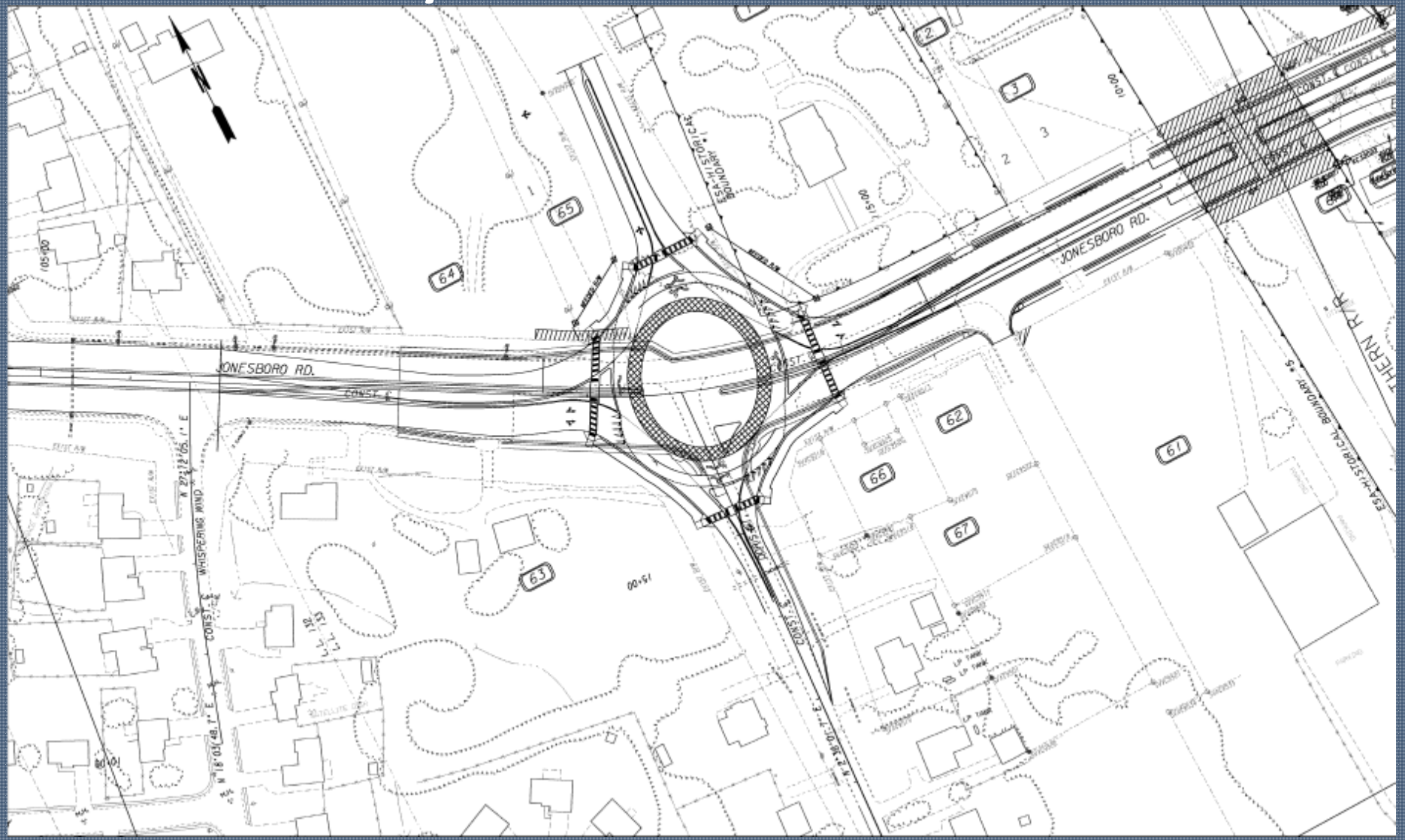
Network Statistics

		Alt 1			Alt 2a			Alt 2b			Alt 3			Alt 4 (No Build)		
		Average Delay (s/veh)	Average Speed (mph)	Estimated LOS[1]	Average Delay (s/veh)	Average Speed (mph)	Estimated LOS[1]	Average Delay (s/veh)	Average Speed (mph)	Estimated LOS[1]	Average Delay (s/veh)	Average Speed (mph)	Estimated LOS[1]	Average Delay (s/veh)	Average Speed (mph)	Estimated LOS[1]
2019	AM	58.2	22.6	C	77.9	20.3	C	74.2	20.7	C	68.7	21.4	C	72.1	21.2	C
	PM	60.9	22.4	C	96.2	18.8	C	95.1	18.8	C	125.2	16.7	D	191.8	12.5	E
2039	AM	102.6	18.2	C	223.0	11.6	E	312.3	9.1	F	149.8	15.1	D	*		
	PM	113.7	17.5	C	268.8	10.2	F	276.4	10.0	F	372.7	7.9	F	253.0	9.8	F

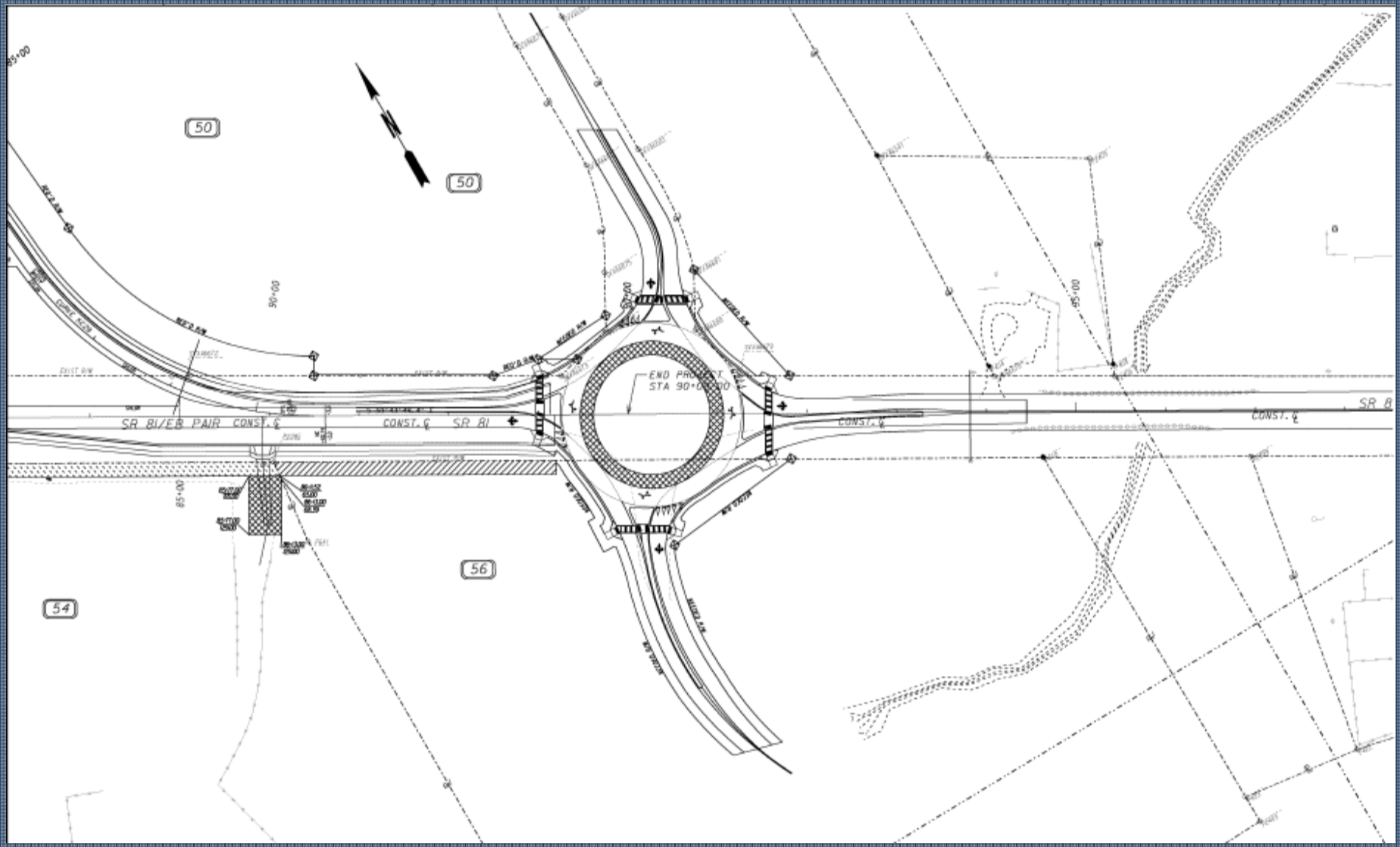
[1] While the HCM does not addresses LOS for a network of urban street segments, the average vehicle speed is used to determine an estimated LOS based on the percentage of free flow speed (35 mph).

* No results were obtained from the Alt 4 2039 AM model due to the high percentage of left turns blocking the square causing gridlock throughout the network.

Gateway/Roundabout Location



Gateway/Roundabout Location



Impacts of the Roundabouts to the Project

- Scope of Work
- Schedule
- Budget
- Options for Roundabout designs
  - Include Roundabouts as part of this project (P.I. 321530-)
  - Program each roundabout separately

Action Items Needed from the City of McDonough

- One-way versus Two-way design
- Connect Lowe St. to Brown Ave.
- Decision about the Roundabouts
  - Include Roundabouts as part of this project
  - Program each roundabout separately

Questions & Answers

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