



Mercer County Regional Planning Commission

*Mercer County
Congestion Management Processes*

PERFORMANCE MONITORING SUMMARY

CMP Corridor #307

PA 418 (Wheatland to Hermitage)

Data Date: Fall / Winter 2009

PERFORMANCE MONITORING SUMMARY FOR:

CORRIDOR #307	Data Date:	Fall / Winter 2009
PA 418	Limits:	PA 60 (Future PA 760) (Wheatland Boro) to US 62 (City of Hermitage)
	Length:	2.8 Miles
	Volume:	Daily = 3,500-11,100 veh/day; Hourly = 390-1,000 veh/hr

Applicable Type(s) of Congestion (✓)

✓	Commuter / Commercial Congestion		Non-recurring Incident Congestion
	Town Center / Main Street Congestion		Non-recurring Special Event Congestion
✓	School Congestion	✓	Isolated Issues / Hot-Spots

Performance Measures (per travel time data or field recon)

---	PREVIOUS UPDATE (none)	---	PREVIOUS UPDATE (none)
(n/a)	Total Delay (veh-hr) and (County Rank)	(n/a)	Delay Rate (min / mi) and (County Rank)
19	CURRENT UPDATE (2009)	0.8	CURRENT UPDATE (2009)
(14)	Total Delay (veh-hr) and (County Rank)	(6)	Delay Rate (min / mi) and (County Rank)
6.3	Travel Time (minutes)	5.0	Stops (#)
2.2	Delay (minutes)	1.8	Stop Rate (# / mi)
35	Delay Ratio (%)	4	Total Flagged Considerations (#)
26	Average Speed (mph)	7	Estimated Sidewalk Completion (%)

Flagged Considerations (✓)

	National Highway System		Tourism / Recreation / Special Events
✓	Transit		Community Concerns / Quality of Life
✓	Pedestrian		Growth / Land Use / Economic Impacts
✓	Bicycle		Roadway Infrastructure (or related)
	Truck Freight	✓	Traffic Operations (or related)
	Rail Freight		Access / Access Control
	Incident Management		Safety or Crash Activity

Adjacent Land Uses (% of corridor length based on segment-level occurrences)

100%	Residential	33%	Religious / Church / Cemetery
15%	Business / Commercial	28%	Health / Medical / Emergency Services
25%	Industrial / Manufacturing		Government / Institutional
30%	Educational		Other:

Context Description

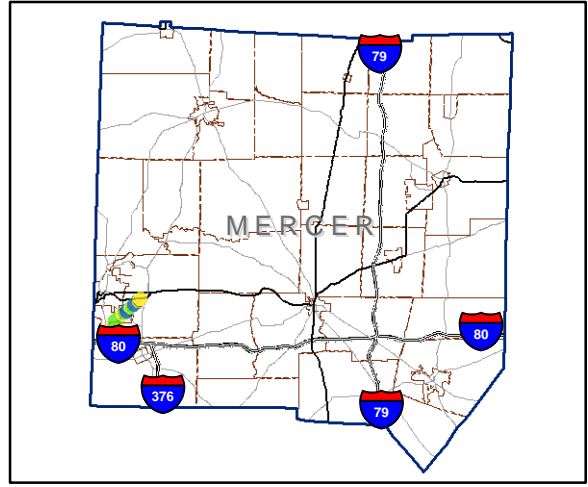
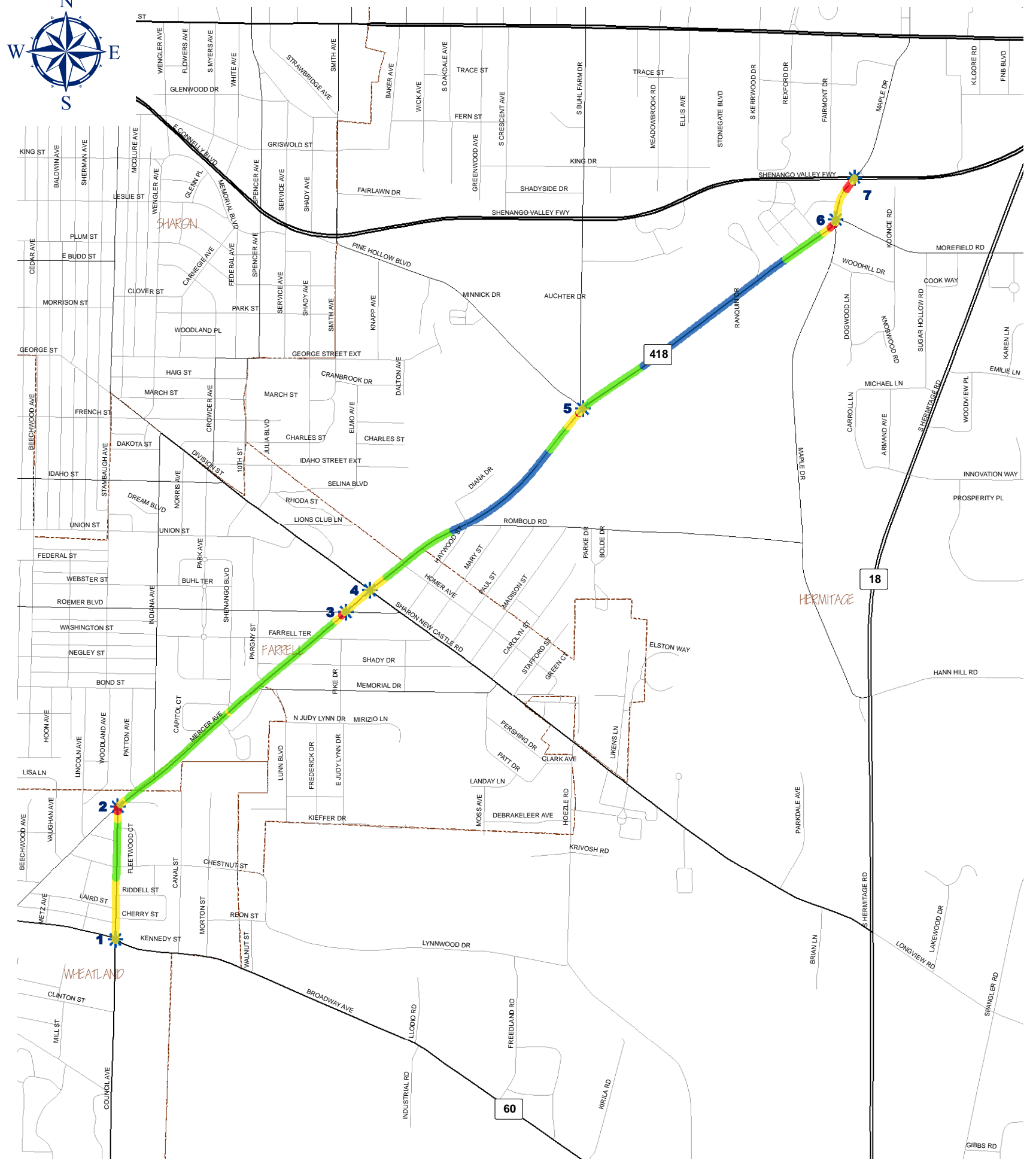
PA 418 is a 2-lane (1-lane in each direction) “community arterial” through a “suburban neighborhood” context with typical posted speed limits of 25-35 mph. The area is primarily residential, and minor delays occur at various signalized intersections throughout the corridor. Peak periods of congestion are similar during a typical midday or early afternoon peak (likely due to school traffic impacts) and a later afternoon commuter peak.

Other Highlights

- School traffic impacts due to Farrell High School located along the corridor.
- Local bicycle route signage near Council Avenue at the corridor’s southern end.
- Possible isolated hot-spots:
 - Closely-spaced signal operations at Roemer Boulevard and PA 518.

Change Since Previous

- No change – data contained herein represents baseline conditions for Fall/Winter 2009 as defined during the CMP’s initial corridor assessments.
- Strategy Potential – An initial “Wish List” of Congestion Management Strategies has yet to be determined for this corridor.



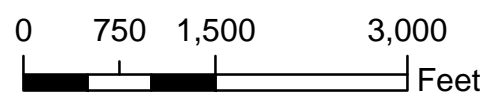
Detail 1 - County Location (N.T.S.)

LEGEND

- Speed-Based Congestion Estimate**
- Slowed / Stopped (Significant Congestion)
 - Slowed (Moderate Congestion)
 - Free-Flowing (Minimal Congestion)
 - Free-Flowing (No Congestion)

Corridor Nodes, PA 418 @:

- * 7, US 62, Shenango Valley Fwy
- * 6, Morefield Rd, Maple Dr
- * 5, S Buhl Farm Dr (SR 3025)
- * 4, PA 518, Sharon New Castle Rd
- * 3, Roemer Blvd (SR 3006)
- * 2, Mercer Ave, Council Ave
- * 1, PA 60 (Future PA 760), Broadway Ave



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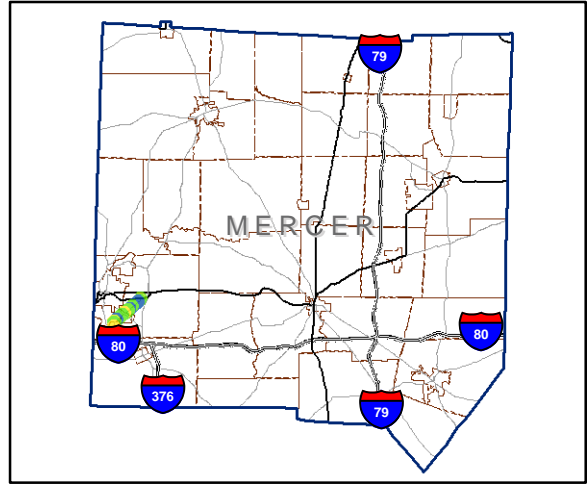
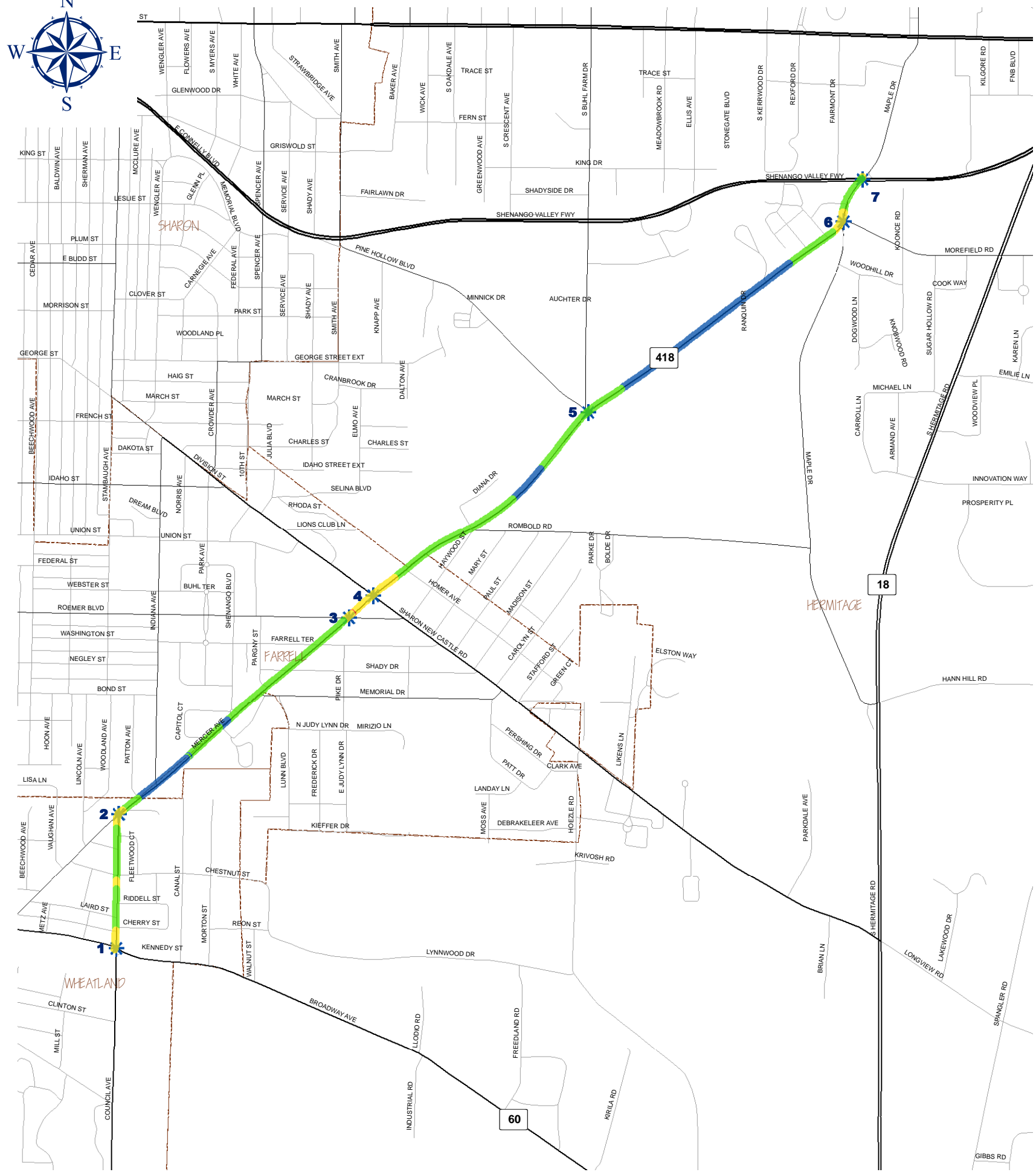
Speed Display Diagram for
Typical Weekday PM Peak (NB)

Mercer County Regional Planning Commission

Planning for Livable Communities

Corridor #307

Revised 04/27/10



Detail 1 - County Location (N.T.S.)

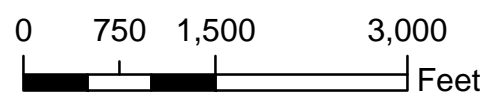
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Typical Weekday PM Peak (SB)

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