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# Technical Advisory Committee

Monday, August 10, 2015

Regular Session

## Item J1

### Journey 2040 Project Status

Staff Contact: Chad Nabity, Regional Planning Director

# Journey 2040



TAC Meeting  
Monday, August 10, 2015

@GIPublicWorks #JOURNEY2040PLAN  
Facebook.com/GI.PublicWorks

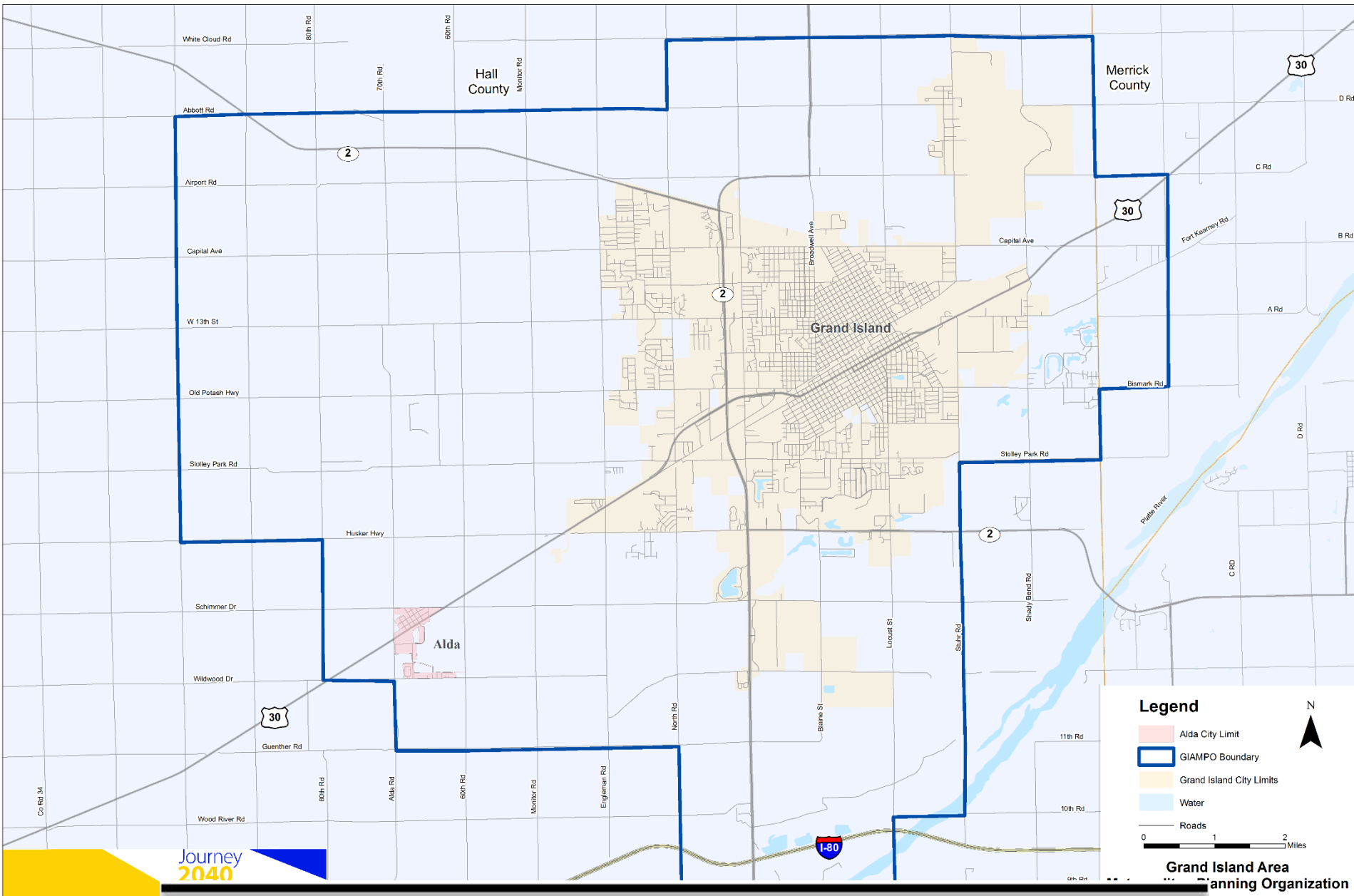
# Performance Based Long Range Plan

Long-range transportation plan with investments to improve the condition and performance of the transportation system.

- Streets and highways
  - Bicycle and pedestrian travel
  - Movement of freight
- Aviation
  - Rail crossings
  - Safety

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# Metropolitan Planning Area



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# Project Update

- Progress to Date
- Current Activities
- Next Steps



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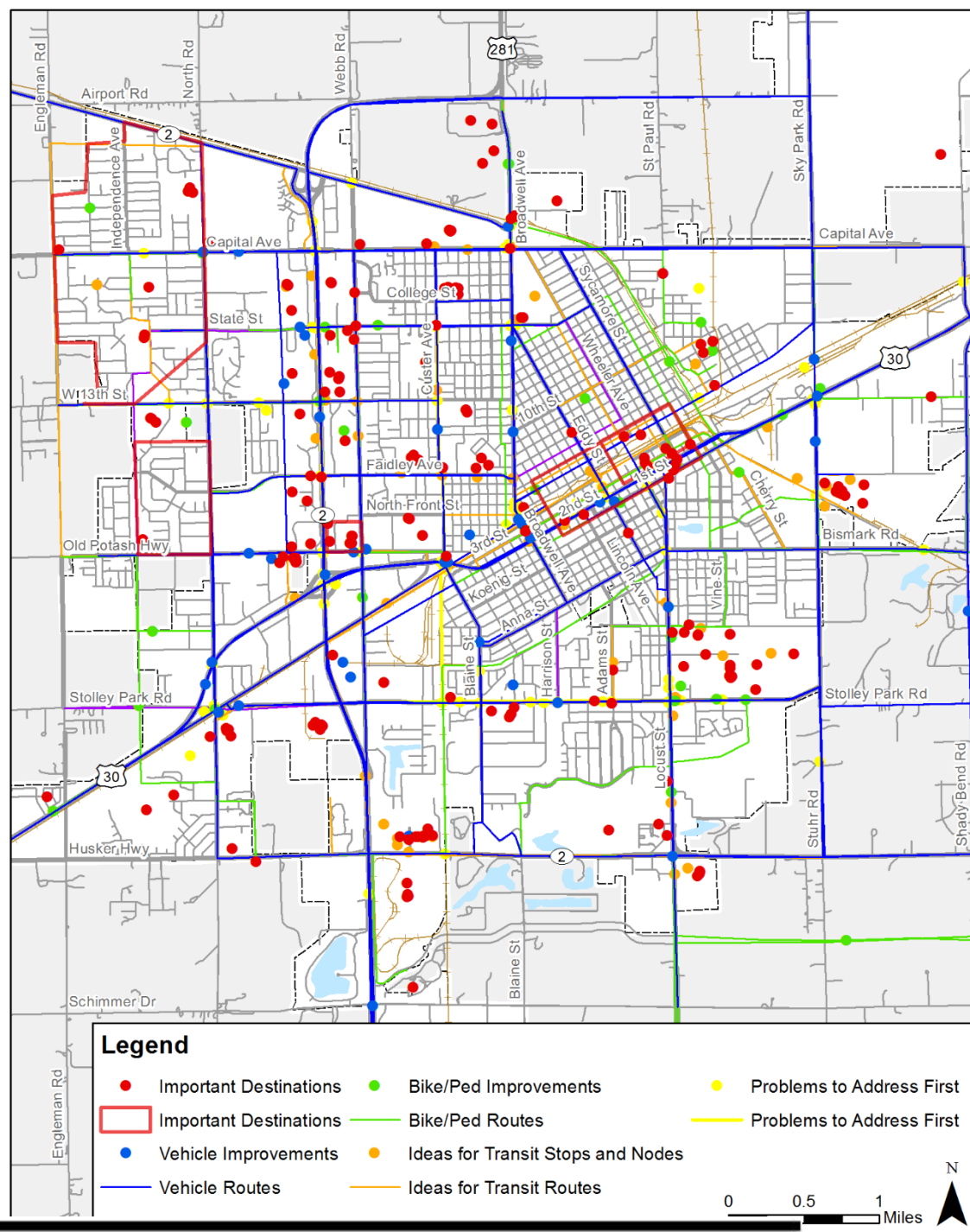
# In Progress

- Existing Conditions Report
- Travel model development
- Socio-economic data inputs to the model
- Forecasts of future growth
- Developing goals, objectives and performance measures
- Available or potential revenues



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# Workshop 1 Results

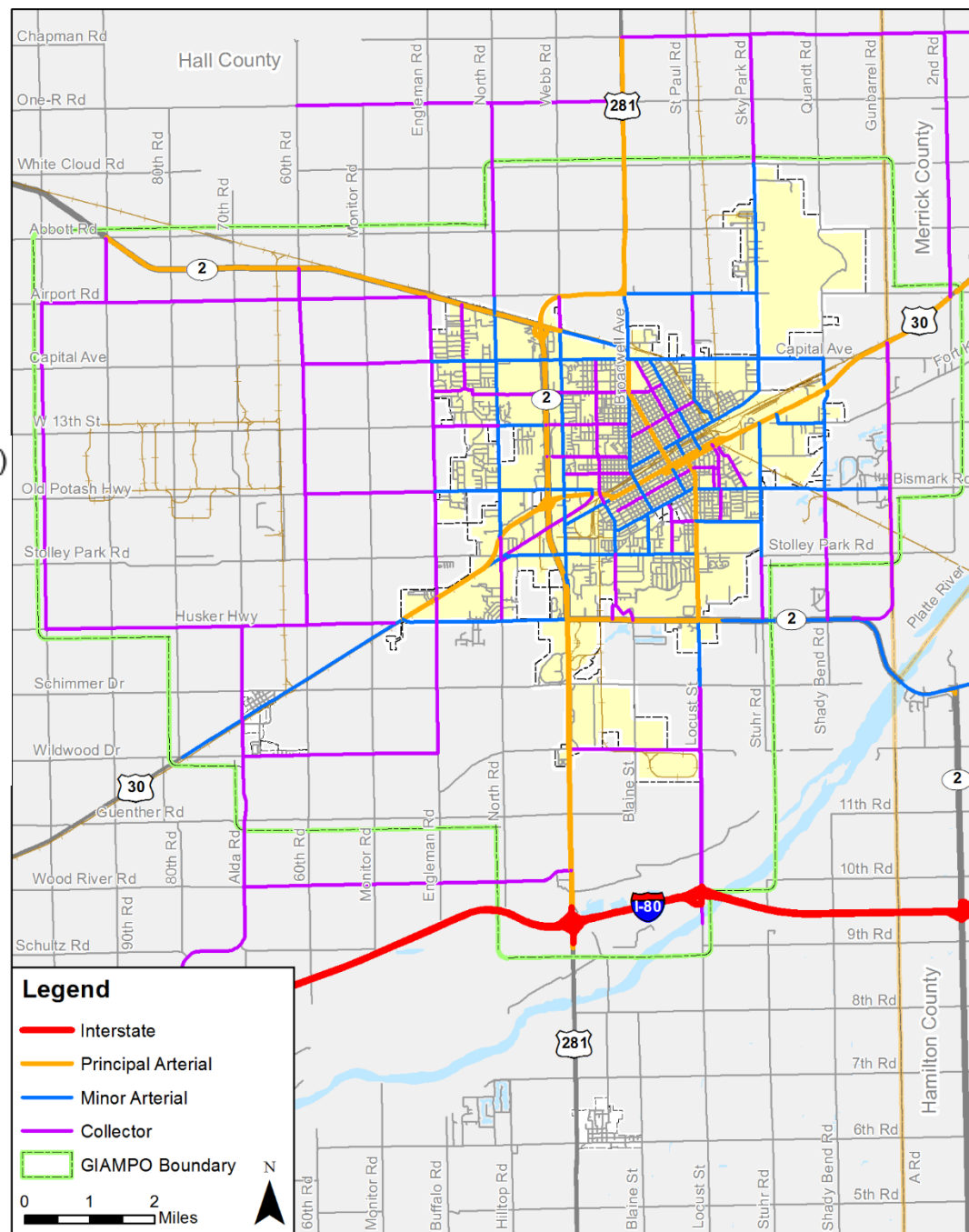


# Functional Classification

Table 1 Functional Classification Miles (Grand Island MPA)

Functional Classification	Miles
<b>Arterials</b>	<b>117.8</b>
Interstate	4.2
Principal Arterial	52.3
Minor Arterial	61.3
<b>Collectors</b>	<b>110.9</b>

Source: NDOR & OA's TransCAD Model.



# Existing Conditions



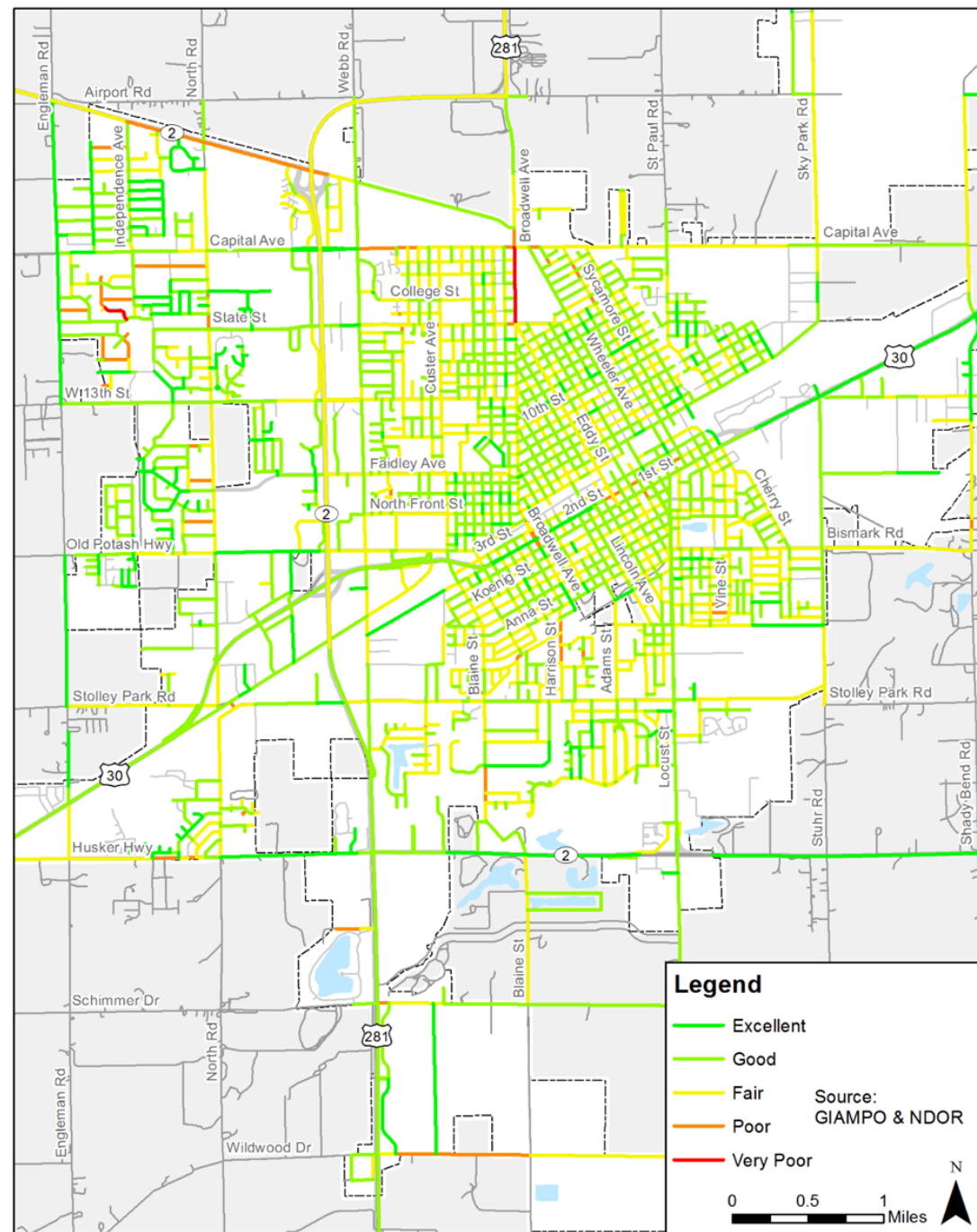
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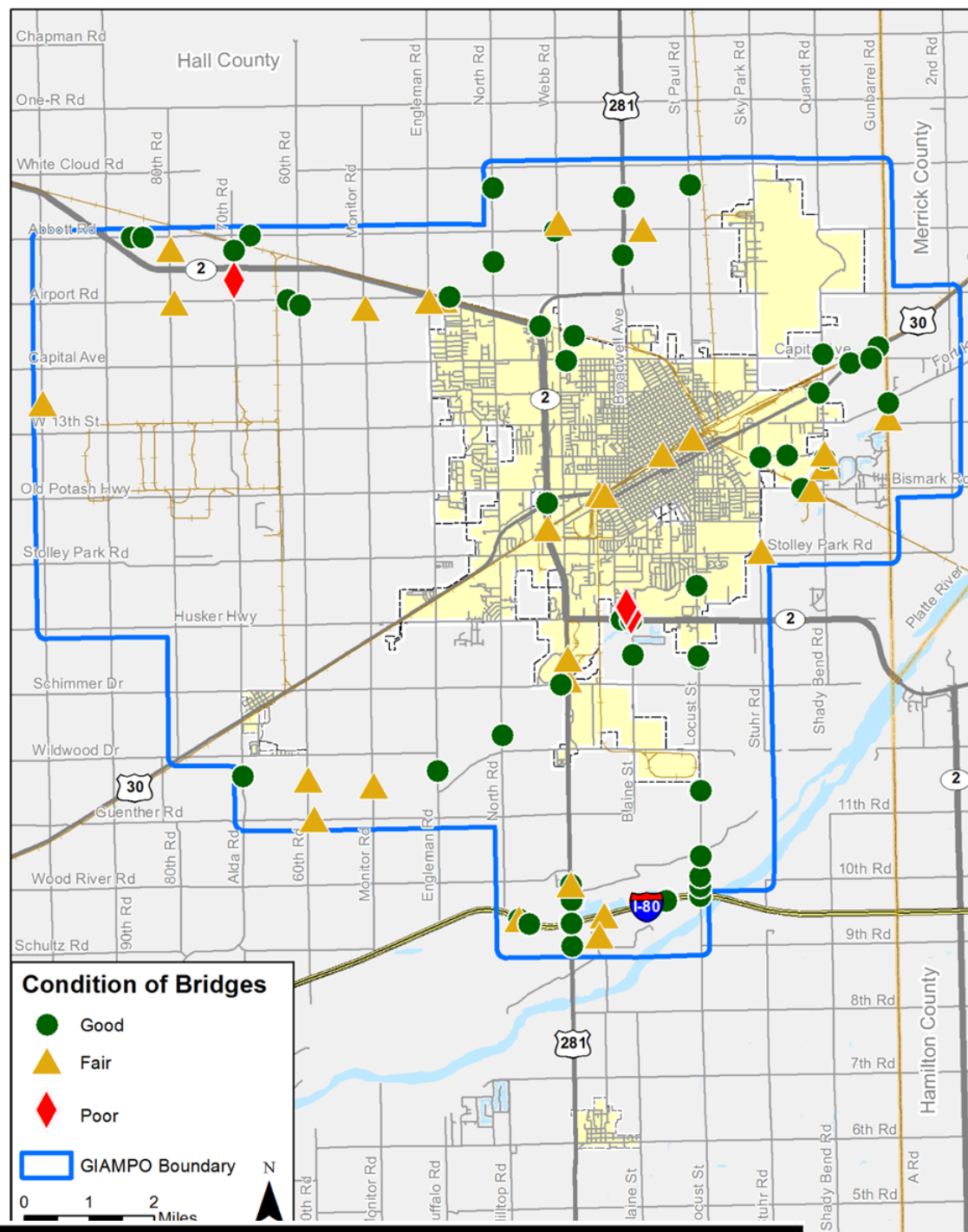
# Pavement Condition

Table 1 Pavement Condition Rating Scores

Rating Score	NSI / OCI
Very Good	91 thru 100
Good	71 to 90
Fair	51 to 70
Poor	31 to 50
Very Poor	0 to 30



# Bridge Condition



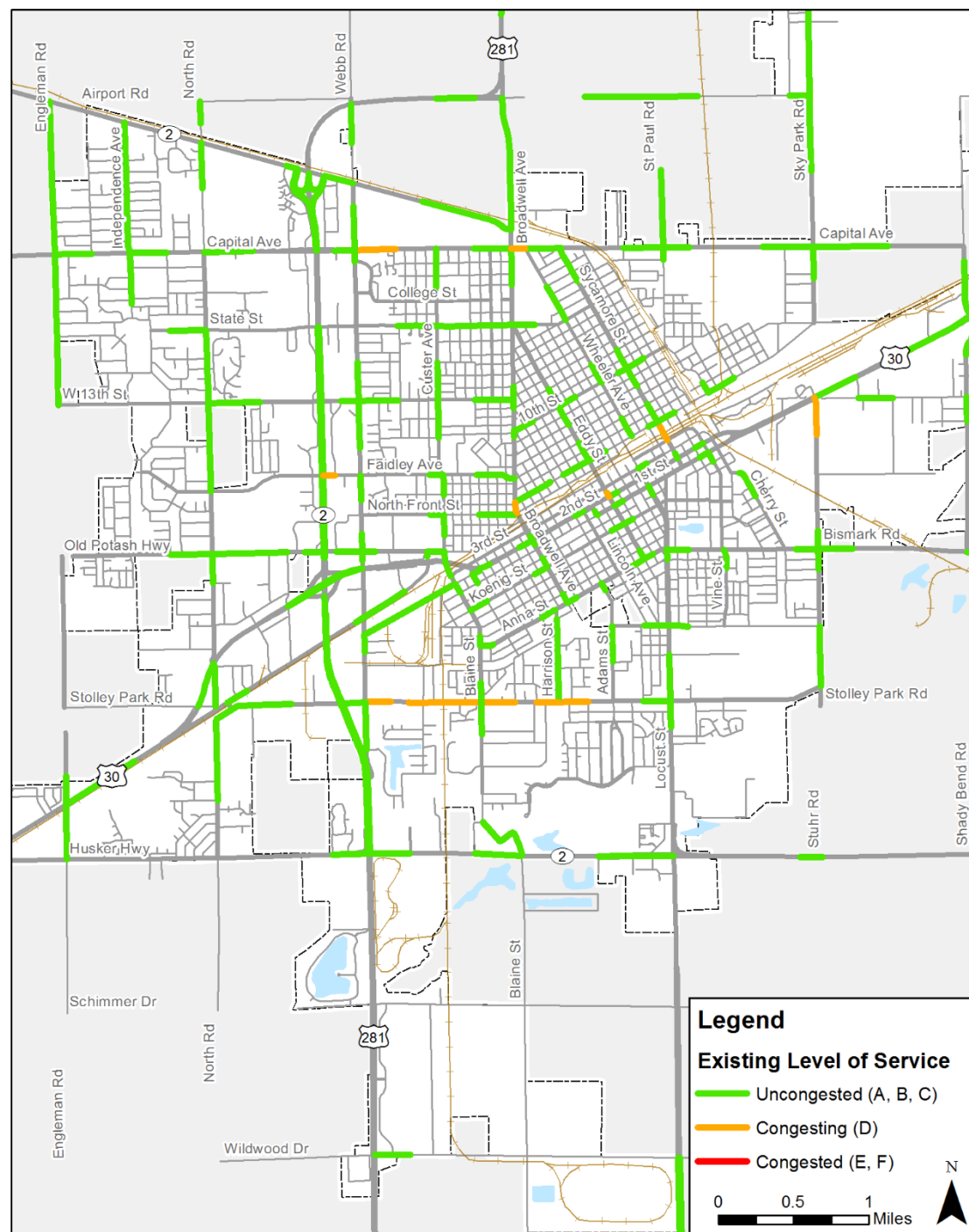
**Legend**  
 XX,XXX Represents  
 2015 Average Daily Traffic

0 0.5 1 Miles

N

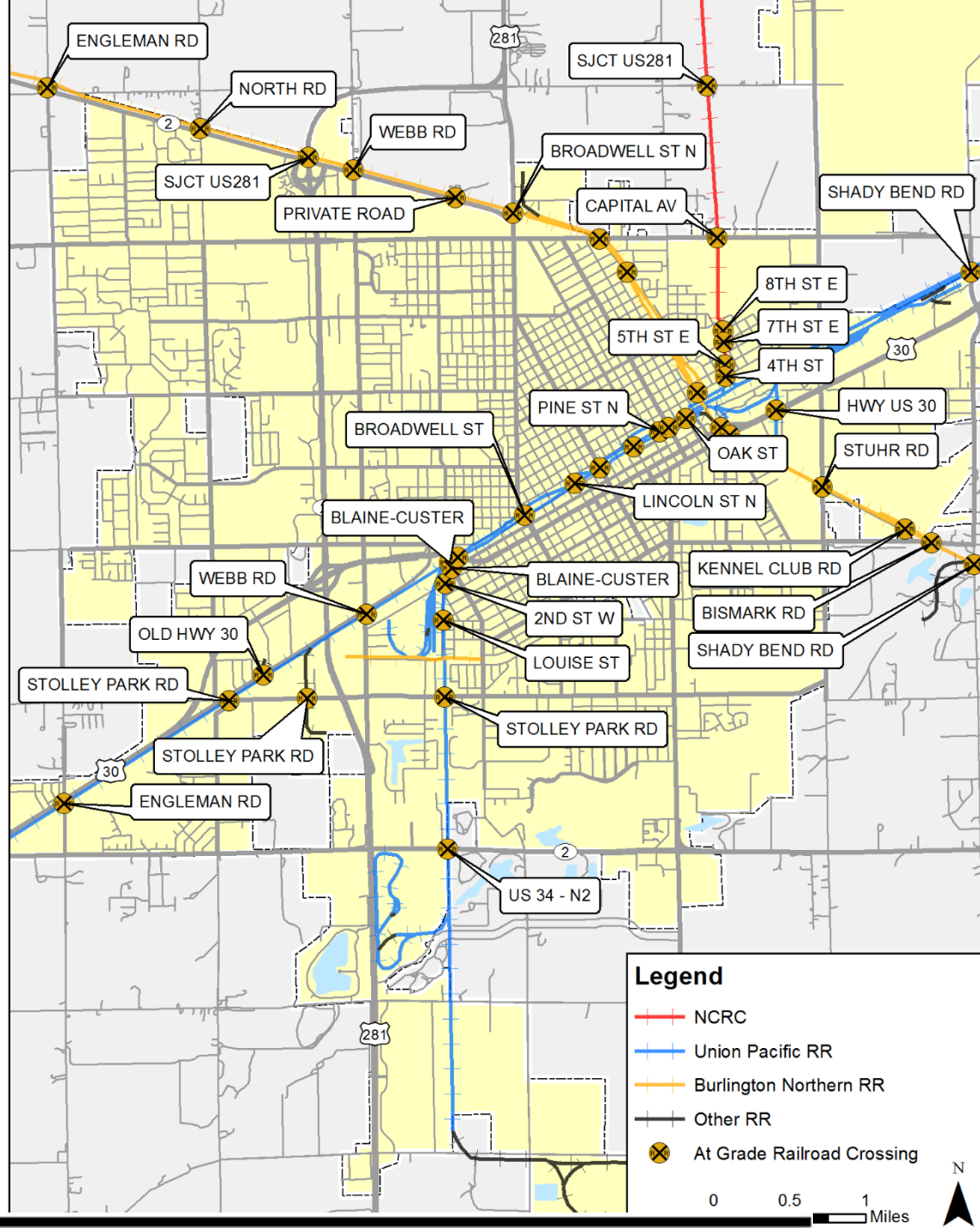


# Lane Capacity Check



# Railroad Crossings

BNSF	59 through trains
UPRR	75 through trains
NCRC	3 local trains; 2 switch trains



# At-grade Crossing Exposure

Table 1 Grade Crossing Exposure Factor Calculation

Roadway	Rail	ADT	Trains/Day	Exposure Factor
EDDY ST	UPRR	12,061	75	904,575
BROADWELL AVE	UPRR	12,036	75	902,700
STOLLEY PARK RD	UPRR	11,659	75	874,425
US HWY 34	UPRR	8,532	75	639,900
BLAINE-CUSTER AVE	UPRR	8,430	75	632,250
WEBB RD	UPRR	6,283	75	471,225
US 281	BNSF	5,713	59	337,067
WALNUT ST	UPRR	4,375	75	328,125
STUHR	BNSF	4,830	59	284,970
BROADWELL AVE	BNSF	4,733	59	279,247
SHADY BEND RD	UPRR	2,922	75	219,150
2ND ST	UPRR	2,203	75	165,225
BLSMARK RD	BNSF	2,138	59	126,142
ENGLEMAN RD	UPRR	1,473	75	110,475
LINCOLN AVE	UPRR	1,302	75	97,650
WEBB RD	BNSF	1,413	59	83,367
NORTH RD	BNSF	1,341	59	79,119
ENGLEMAN RD	BNSF	839	59	49,501
CAPITAL AVE	NCRC	5,300	5	26,500
4TH ST	NCRC	2,565	5	12,825

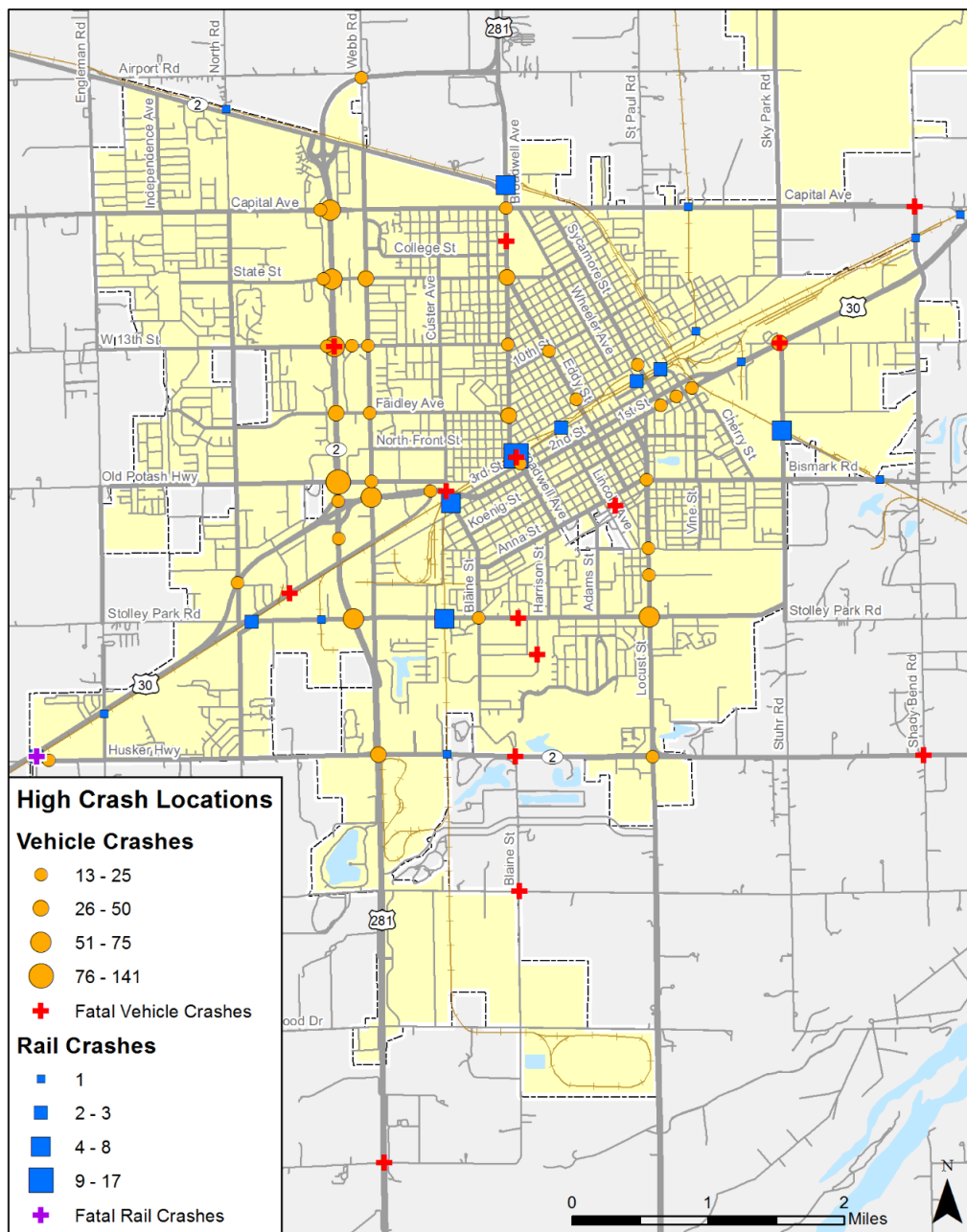
This slide is being revised – the updated slide will be available at the 8/10/2015 meeting

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# High Crash Locations

Table 1 Calculated Crash Rates for the Top 10 Intersections

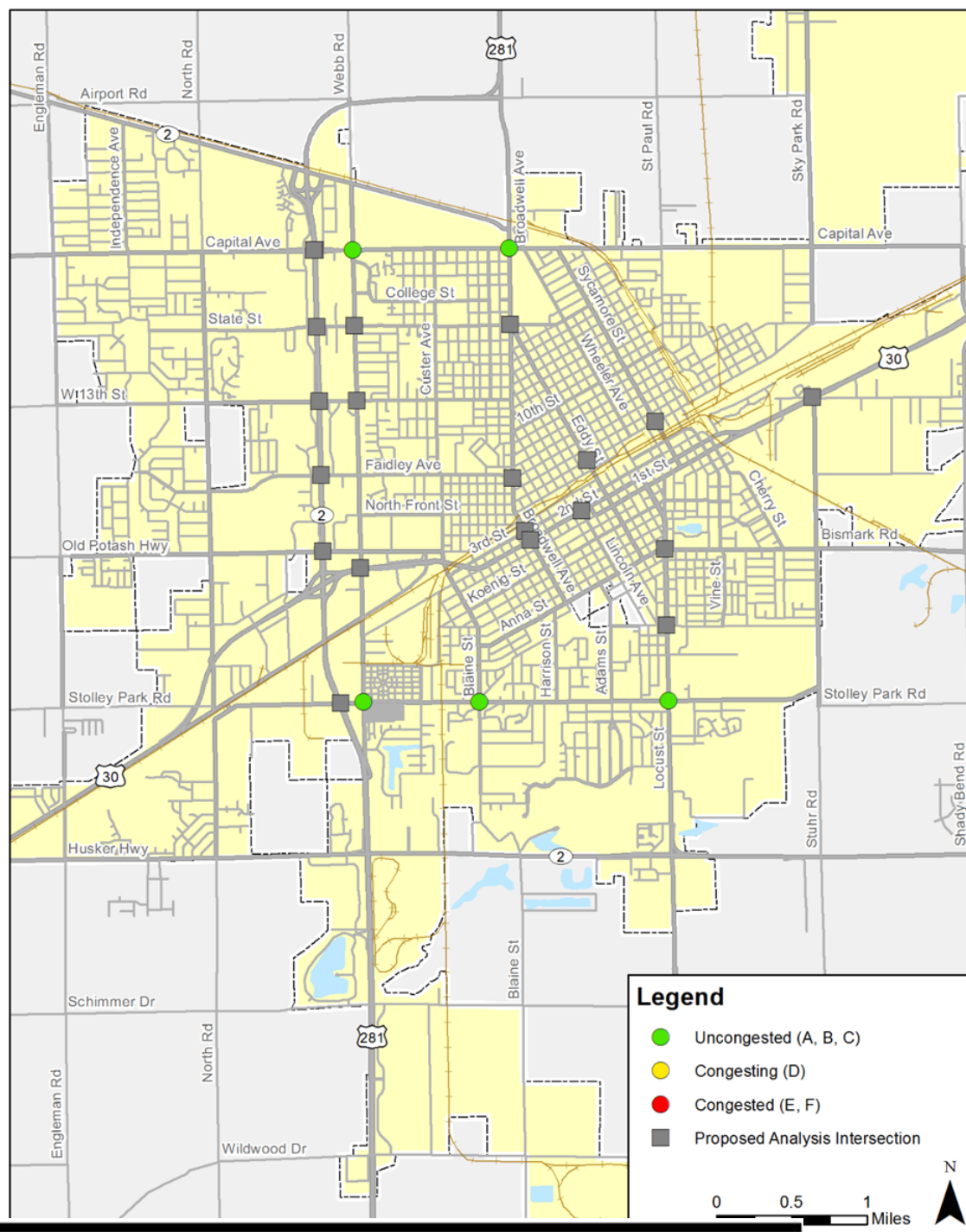
Rank	Location	Observed Crash	2013 Total Entering Vehicles (TEV/day)	Entering Vehicles 5-year Period (10 million)	Crash Rate (per TMEV)
1	US281 & OLD POTASH HWY	141	32209	5.9	23.99
2	US281 & CAPITAL AVE	56	17192	3.1	17.85
3	US281 & STOLLEY PARK RD	73	26620	4.9	15.03
4	US281 & STATE ST	72	31178	5.7	12.65
5	US281 & W 13TH ST	60	26049	4.8	12.62
6	US30 & WEBB RD	53	23575	4.3	12.32
7	LOCUST ST & STOLLEY PARK RD	53	23683	4.3	12.26
8	BROADWELL AVE & STATE ST	30	19037	3.5	8.63
9	US281 & FAIDLEY AVE	41	27443	5.0	8.19
10	HUSKER HWY(US34) & US281	31	24246	4.4	7.01



Source: City of Grand Island (2009 - 2013).

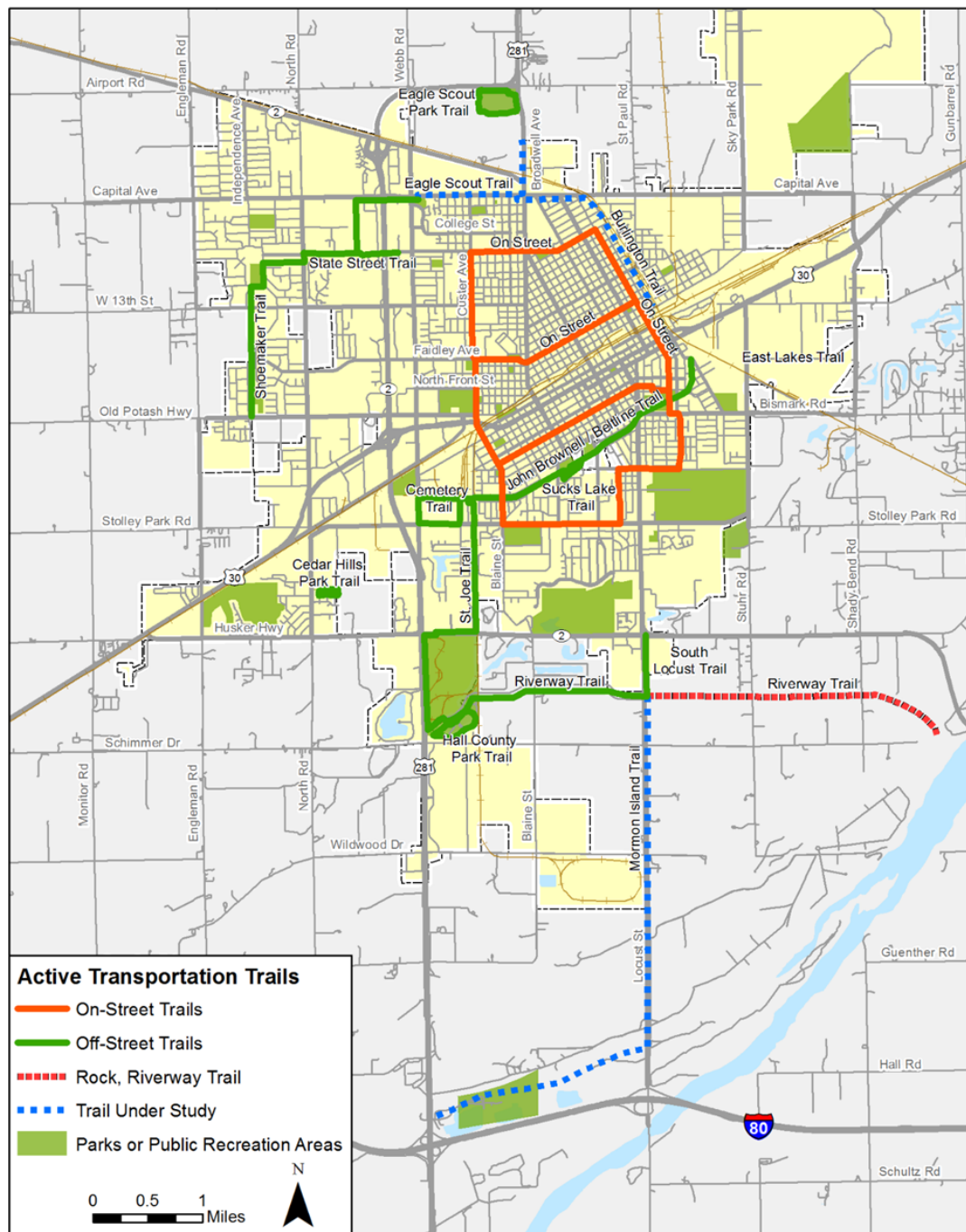
# Intersection Analysis

- In progress

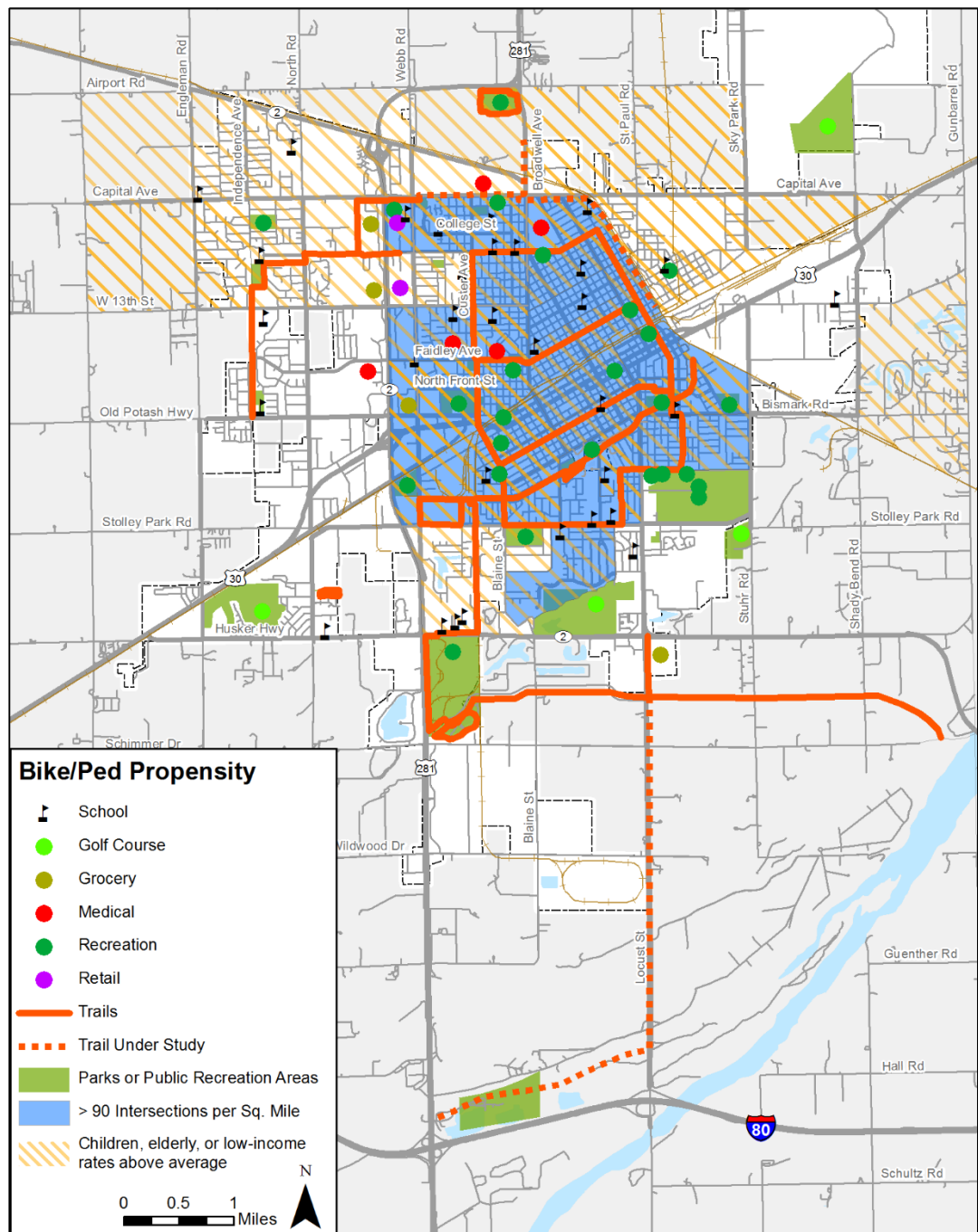




# Trails

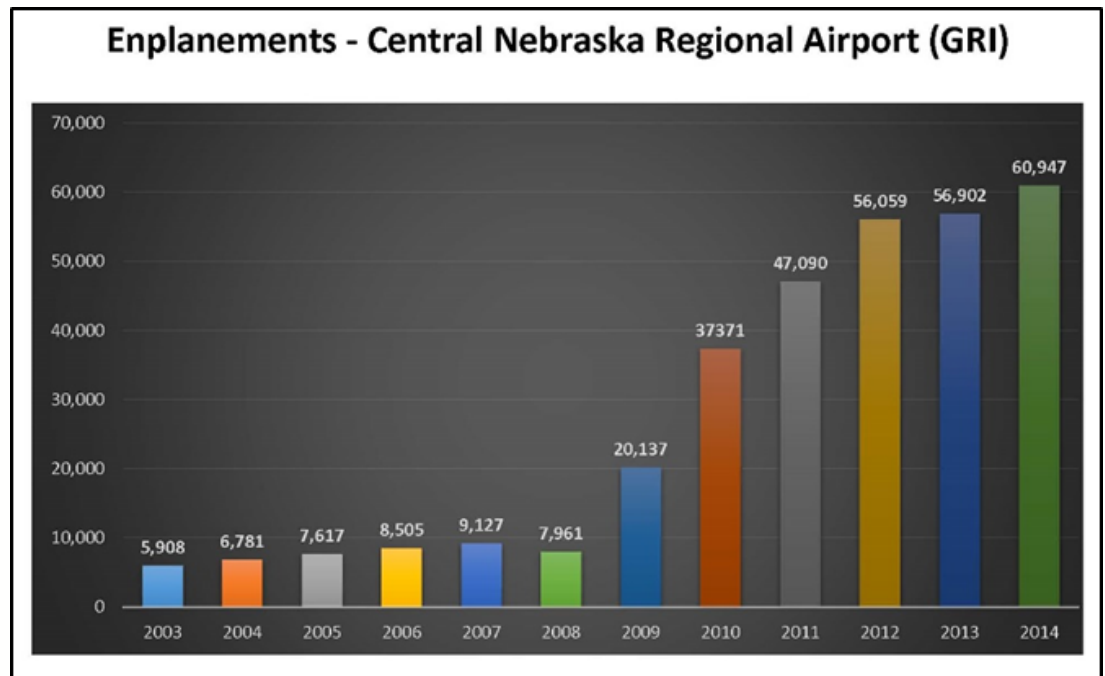


# Bicycle and Pedestrian Propensity



# Aviation

- Allegiant
- American
- Charters
- Fixed Base Operator



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# Draft Goals

- Goal 1: Provide Accessibility and improve mobility
- Goal 2: Increase safety and security
- Goal 3: Environmental protection and the preservation of important natural assets
- Goal 4: Further the health, safety, and well-being of all residents in the region.



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# Questions and Answers



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