

# ALLEGAN COUNTY PRIMARY ROAD MILLAGE



**JANUARY 4-6, 2022**



# ***TOPICS***

- ***ALLEGAN COUNTY ROAD COMMISSION INFORMATION***
- ***MILLAGE HISTORY & GUIDELINES***
- ***2021 COMPLETED PROJECTS***
- ***2022 PROPOSED PROJECTS***
- ***FUTURE PROPOSED PROJECTS***
- ***DISCUSSION & QUESTIONS***

# ***ALLEGAN COUNTY ROAD COMMISSION INFORMATION***

- Responsible for 1,800 miles (5<sup>th</sup> in State) of roadway and 155 bridges (9<sup>th</sup> in State) within 24 townships (4<sup>th</sup> in the State)
  - 522 Primary Miles
    - 493 miles paved
    - 29 miles gravel
  - 1278 Local Miles
    - 678 miles paved
    - 600 miles gravel
      - 67 miles seasonal, not maintained in winter
  - 155 Bridges
    - 50 Primary System
    - 105 Local System
    - Bridge Classification: A structure with a minimum span of 20' (Can be a combination of culverts)

## ***2020 ROAD COMMISSION REVENUES***

The Road Commission receives revenue through the Michigan Transportation Fund (MTF) from fuel tax and vehicle registrations. This revenue is primarily used to pay operating and maintenance costs of the roads in Allegan County including payroll, equipment, materials, utility cost, etc. The Road Commission's MTF revenue was \$15,154,393.

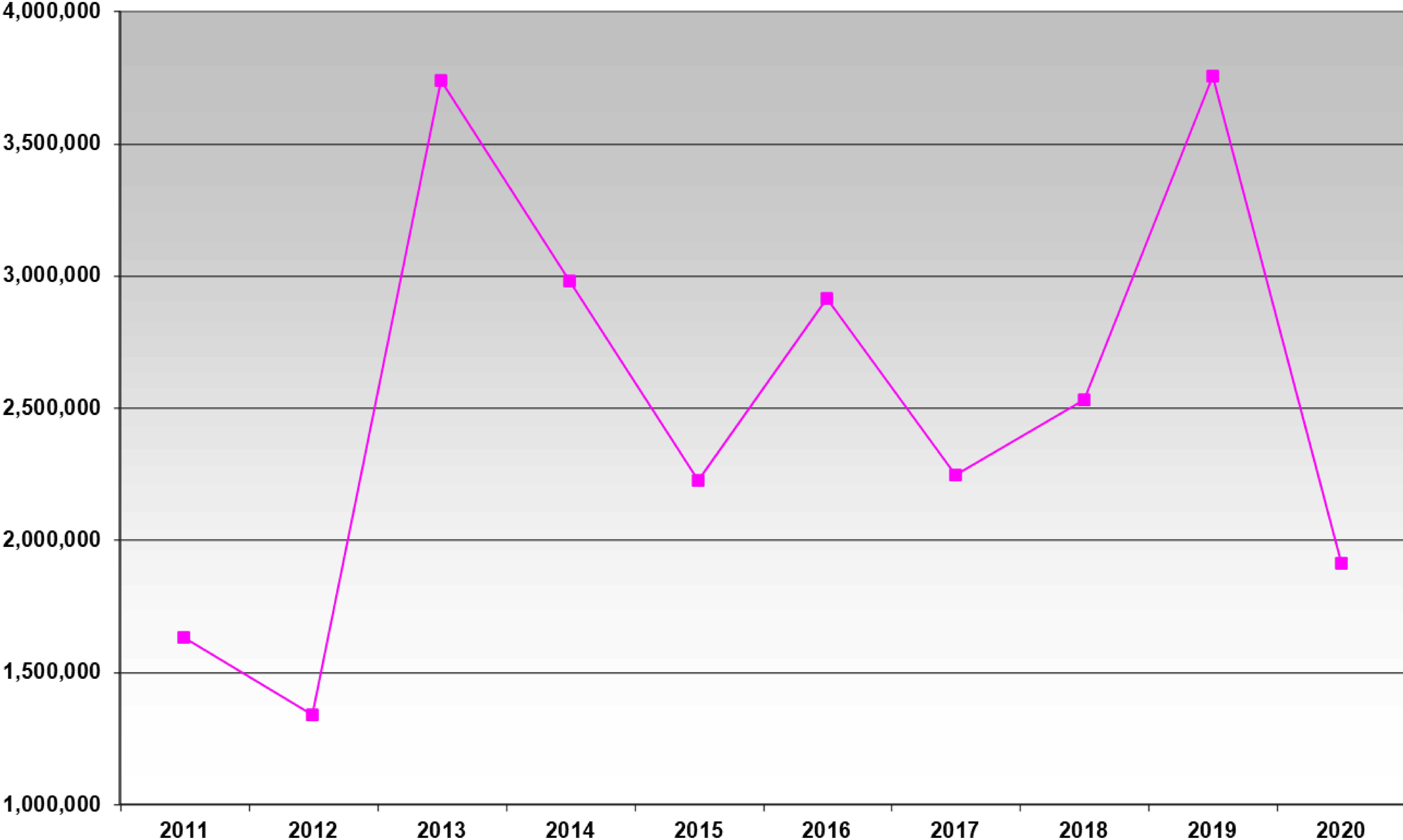
Federal and State funding acquired for roads and bridges totaled \$581,827.

### **Local Revenue:**

The Primary Millage raised \$4,042,365 and township contributions added an additional \$10,016,822 for preventative maintenance and improvements to the local road system and activities like shoulder paving on the primary road system.

Locally raised revenues in Allegan County are consistently higher than most road commissions in the state.

# Winter Maintenance



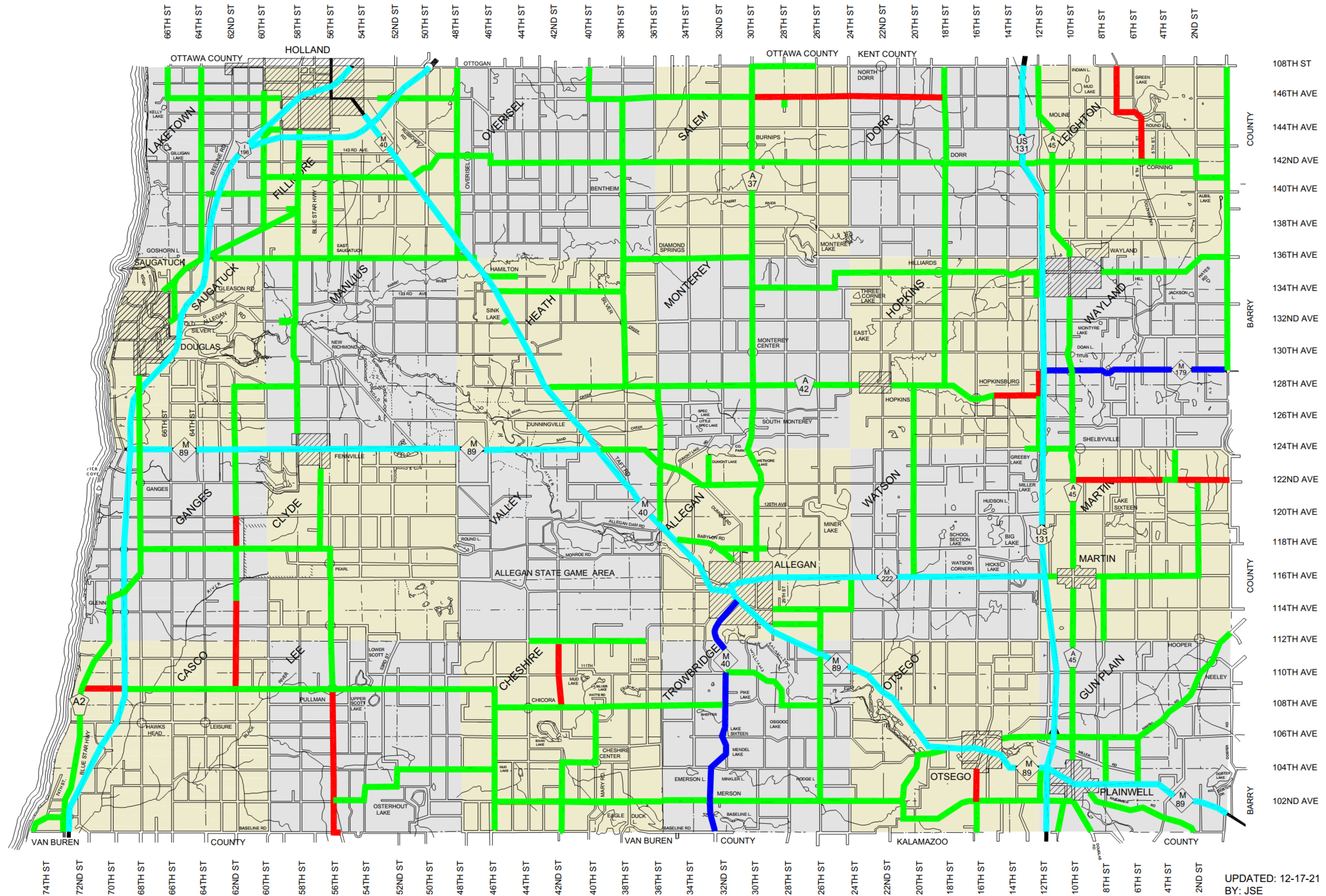
# ***HOT MIX ASPHALT PRICES***

| <b>YEAR</b> |
|-------------|
| 2005        |
| 2006        |
| 2007        |
| 2008        |
| 2009        |
| 2010        |
| 2011        |
| 2012        |
| 2013        |
| 2014        |
| 2015        |
| 2016        |
| 2017        |
| 2018        |
| 2019        |
| 2020        |
| 2021        |
| *2022       |

| <b>Local Roads</b> |                      |                 |
|--------------------|----------------------|-----------------|
| <b>(\$/ton)</b>    | <b>Yearly Change</b> | <b>% Change</b> |
| \$27.26            |                      |                 |
| \$34.00            | \$6.74               | 24.7%           |
| \$39.38            | \$5.38               | 15.8%           |
| \$54.72            | \$15.34              | 39.0%           |
| \$46.91            | -\$7.81              | -14.3%          |
| \$48.33            | \$1.42               | 3.0%            |
| \$44.14            | -\$4.19              | -8.7%           |
| \$49.82            | \$5.68               | 12.9%           |
| \$53.22            | \$3.40               | 6.8%            |
| \$51.01            | -\$2.21              | -4.2%           |
| \$52.28            | \$1.27               | 2.5%            |
| \$49.07            | -\$3.21              | -6.1%           |
| \$48.34            | -\$0.73              | -1.5%           |
| \$49.69            | \$1.35               | 2.8%            |
| \$60.87            | \$11.18              | 22.5%           |
| \$65.35            | \$4.48               | 7.4%            |
| \$58.64            | -\$6.71              | -10.3%          |
| \$62.00            | \$3.36               | 5.7%            |

| <b>Primary Roads</b> |                      |                 |
|----------------------|----------------------|-----------------|
| <b>(\$/ton)</b>      | <b>Yearly Change</b> | <b>% Change</b> |
| \$24.79              |                      |                 |
| \$33.27              | \$8.48               | 34.2%           |
| \$38.83              | \$5.56               | 16.7%           |
| \$48.50              | \$9.67               | 24.9%           |
| \$47.63              | -\$0.87              | -1.8%           |
| \$49.92              | \$2.29               | 4.8%            |
| \$43.59              | -\$6.33              | -12.7%          |
| \$50.49              | \$6.90               | 15.8%           |
| \$53.60              | \$3.11               | 6.2%            |
| \$52.48              | -\$1.12              | -2.1%           |
| \$58.40              | \$5.92               | 11.3%           |
| \$52.36              | -\$6.04              | -10.3%          |
| \$53.32              | \$0.96               | 1.8%            |
| \$50.81              | -\$2.51              | -4.7%           |
| \$60.18              | \$9.37               | 18.4%           |
| \$60.64              | \$0.46               | 0.8%            |
| \$53.00              | -\$7.64              | -12.6%          |
| \$57.00              | \$4.00               | 7.5%            |

# ALL-SEASON ROUTES



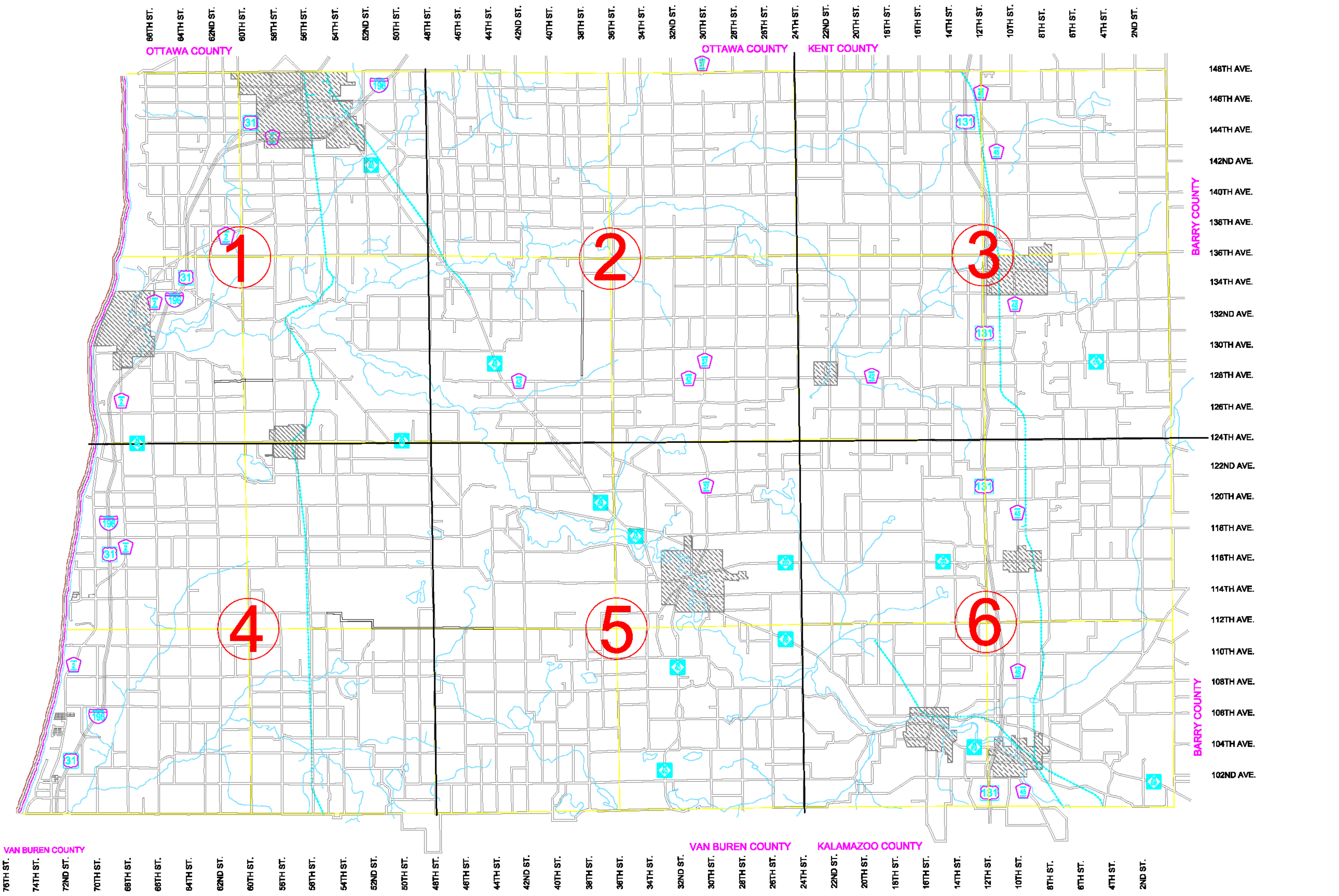
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BY: JSE

# ***ALLEGAN COUNTY MILLAGE HISTORY***

- 1968 a one mill tax was established for bridge & culvert replacement on county roads.
  - 1968-1982 there were 111 bridges and culverts replaced with the millage.
- 1982 the millage language changed from bridge and culvert replacement to primary road resurfacing.
- 2008 the millage language was revised again to include “preservation and preparation” along with resurfacing.
- 2022 is the 4<sup>th</sup> year of the renewed 6 year millage.



# 6 PRIMARY MILLAGE AREAS



# MILLAGE AREA MILEAGE

| Area | Township   | Primary (Miles) | Total (Miles) | % of Area | % of Total | Ranking (Miles) |
|------|------------|-----------------|---------------|-----------|------------|-----------------|
| 1    | Laketown   | 17.7            | 78.5          | 22.5%     | 15.1%      | 4th             |
|      | Fillmore   | 27.4            |               | 34.9%     |            |                 |
|      | Saugatuck  | 21.1            |               | 26.9%     |            |                 |
|      | Manlius    | 12.4            |               | 15.7%     |            |                 |
| 2    | Overisel   | 18.2            | 71.0          | 25.6%     | 13.7%      | 6th             |
|      | Salem      | 19.6            |               | 27.6%     |            |                 |
|      | Heath      | 14.3            |               | 20.1%     |            |                 |
|      | Monterey   | 18.9            |               | 26.6%     |            |                 |
| 3    | Dorr       | 22.0            | 97.1          | 22.7%     | 18.7%      | 2nd             |
|      | Leighton   | 24.7            |               | 25.5%     |            |                 |
|      | Hopkins    | 23.0            |               | 23.6%     |            |                 |
|      | Wayland    | 27.4            |               | 28.2%     |            |                 |
| 4    | Ganges     | 33.3            | 104.1         | 32.0%     | 20.0%      | 1st             |
|      | Clyde      | 18.7            |               | 18.0%     |            |                 |
|      | Casco      | 29.9            |               | 28.7%     |            |                 |
|      | Lee        | 22.3            |               | 21.4%     |            |                 |
| 5    | Valley     | 17.0            | 91.4          | 18.6%     | 17.6%      | 3rd             |
|      | Allegan    | 30.4            |               | 33.2%     |            |                 |
|      | Cheshire   | 26.5            |               | 29.0%     |            |                 |
|      | Trowbridge | 17.6            |               | 19.3%     |            |                 |
| 6    | Watson     | 14.1            | 77.9          | 18.0%     | 15.0%      | 5th             |
|      | Martin     | 21.9            |               | 28.1%     |            |                 |
|      | Otsego     | 18.5            |               | 23.7%     |            |                 |
|      | Gun Plain  | 23.5            |               | 30.2%     |            |                 |

# ***FINANCIAL GUIDELINES***

- **Millage Revenue:**
  - ~30% to Cities & Villages
  - ~70% to Road Commission
- **Road Commission's Revenue:**
  - Split equally between 6 areas
  - Each area contains 4 townships
  - Each area carries a balance from year to year
- **Township Contributions – Primary Roads:**
  - Shoulder Paving – (2" of asphalt) x (additional shoulder width) x (project length) x (contracted unit price)
  - Renovation Projects - \$35,000/mi
    - Work outside existing road shoulders (widening, clearing, ditching)
  - Reconstruction Projects - \$50,000/mi
    - Existing gravel road with full base/sub-base reconstruction
  - Crush, Shape, & Resurface or Mill & Resurface Projects within existing shoulders won't require contributions
- **Road Commission Responsibility:**
  - Develop plan/proposed projects
  - Present to townships
  - Oversee projects

# ***PROJECT SELECTION***

- Current Pavement Conditions:
  - Pavement Surface Evaluation & Ratings (PASER)
- Road History:
  - When & how was the road constructed & paved
  - Last resurfacing or preventative maintenance
- Other Considerations:
  - Cause of Pavement Distresses (traffic loads, poor soils, poor drainage, age, etc.)
  - Traffic Volumes (Commercial Volumes)
  - All-Season Routes
  - Maintenance Costs
  - Project Costs
  - Safety

# PASER RATING GUIDLINES

- Good Ratings: 8, 9, & 10
  - No maintenance required
- Fair Ratings: 5, 6, & 7
  - 7 - Crack Seal
  - 5 or 6 - Chip and Fog Seal
- Poor Ratings: 1, 2, 3, & 4
  - Time to Resurface
  - Milling, Crush & Shape, or Reconstruction extends pavement life
- Rating resets when treatment is completed
  - Reconstruction: 10
  - Resurface: 9
  - Chip Seal: 8
  - Crack Seal: Does not reset rating but extends pavement life

## Asphalt PASER

Modified for Michigan TAMC Data Collection  
 ◆ Denotes Priority Distress

|             | Asphalt 10   | Asphalt 9  | Asphalt 8   |
|-------------|--|--|---|
| <b>Good</b> | New construction<br>No defects<br>Less than 1 year old<br>Only a "10" for 1 year<br><u>Recent base improvement</u><br><i>No action required</i>  | Like new condition<br>No defects<br>More than 1 year old<br><u>Recent overlay with or without a crush and shape</u><br><i>No action required</i>   | ◆ Occasional transverse crack >40' apart<br>◆ Crack width tight (hairline) or sealed<br>Few if any longitudinal cracks on joints<br><u>Recent seal coat or slurry seal (*see below)</u><br><i>Little or no maintenance required</i>   |
|             | Asphalt 7  | Asphalt 6  | Asphalt 5   |
| <b>Fair</b> | ◆ Trans. cracks 10'-40' apart<br>◆ Cracks open < ¼"<br>Little or no crack erosion<br>Little or no raveling<br>Few if any patches in good condition<br><br><u>First signs of wear</u><br><i>Suggested Action</i><br><i>Maintain with crack seal</i>   | ◆ Trans. cracks less than 10' apart<br>◆ Initial block cracking (6'-10' blocks)<br>◆ Cracks open ¼" – ½"<br>Blocks are large and stable<br>Slight to moderate polishing or flushing<br>No patches or few in good condition<br>Slight raveling<br><u>Sound structural condition</u><br><i>Suggested Action</i><br><i>Maintain with sealcoat</i>   | ◆ Secondary cracks (crack raveling)<br>◆ Moderate block cracking (1' – 5' blocks)<br>◆ First sign of longitudinal cracks at edge<br>◆ Cracks open >½"<br>Patching/wedging in good condition<br>Moderate raveling<br>Extensive to severe flushing & polishing<br><u>Sound structural condition</u><br><i>Suggested Action</i><br><i>Maintain with sealcoat or thin overlay</i> |
|             | Asphalt 4  | Asphalt 3  | Asphalt 2   |
| <b>Poor</b> | ◆ Longitudinal cracking in the wheel paths<br>◆ Rutting ½" - 1" deep<br>◆ Severe block cracking: <1' blocks<br>Severe surface raveling<br>Multiple longitudinal & transverse cracks with slight crack erosion<br>Patching in fair condition<br><u>First signs of structural weakening</u><br><i>Suggested Action</i><br><i>Structural overlay &gt;2"</i> | ◆ < 25% alligator cracking (first signs)<br>◆ Moderate rutting 1"- 2" deep<br>◆ Severe block cracking (Alligator)<br>Longitudinal & transverse cracks showing extensive crack erosion<br>Occasional potholes<br>Patches in fair/poor condition<br><br><i>Suggested Action</i><br><i>Structural overlay &gt;2"</i><br><i>Patching &amp; repair prior to a major overlay</i><br><i>Milling would extend overlay life</i> | ◆ > 25% alligator cracking<br>◆ Severe rutting or distortion >2"<br>Closely spaced cracks with erosion<br>Frequent potholes<br>Extensive patches in poor condition<br><br><i>Suggested Action</i><br><i>Reconstruction with base repair</i><br><i>Crush and shape possible</i>  |
|             |  |  | Asphalt 1   |
|             |  |  | Loss of surface integrity<br>Extensive surface distress<br><br><i>Suggested Action</i><br><i>Reconstruction with base repair</i>  |

# ***MILLAGE PROJECT TOTALS***

- From 1983-2021 the millage has raised \$81,491,275 which has funded:
  - 704.24 miles of paving (22.69 in 2021)
    - \*Some roads have been resurfaced multiple times
  - 223.54 miles of chip seal & fog coat (27.71 in 2021)
  - 299.67 miles of crack sealing (47.94 in 2021)
  - 14 large culvert replacements
- ACRC Contributions (MTF) in 2021
  - ~\$2,158,088 to fund or supplement millage funds on 7 primary projects

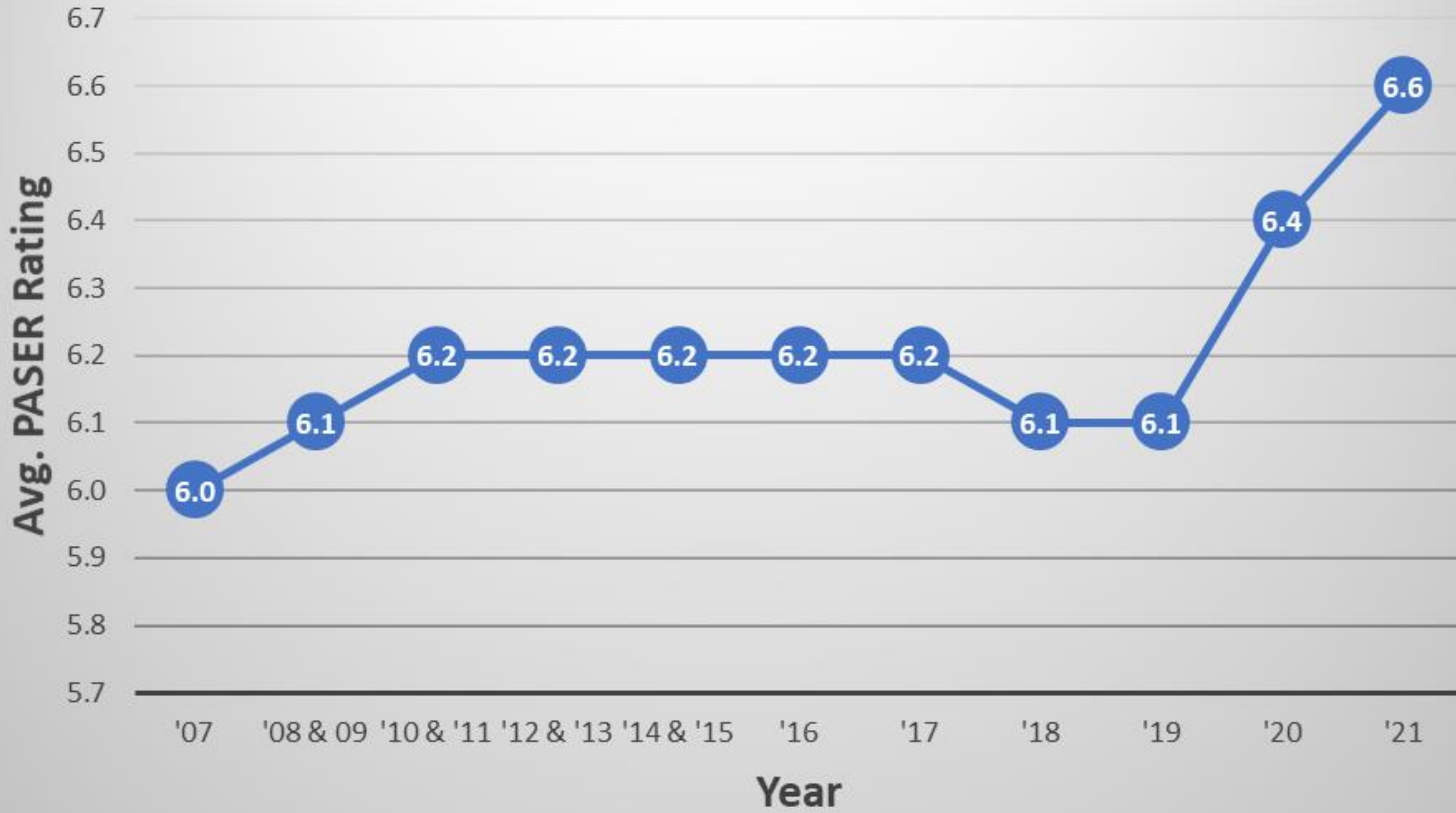
**PRIMARY ROAD RESURFACING MILLAGE FUND  
2021 COMPLETED PROJECTS**

| AREA | TOWNSHIP                      | PROJECT LOCATION   | TYPE OF WORK                            | MILES       | MILLAGE FUND COSTS  | TOWNSHIP & OTHER CONTRIBUTIONS | TOTAL COSTS         |
|------|-------------------------------|--|---|-------------|---------------------|--------------------------------|---------------------|
| 1    | Saugatuck                     | 66th Street - M-89 to Village of Douglas   | Resurface, HMA 4E1 - 275 #/syd          | 2.84        | \$354,147.28        | Saugatuck (PS) \$54,982.40     | \$409,129.68        |
|      | Manlius                       | 130th Avenue and 57th Street - 58th Street to New Richmond Bridge  | Resurface, HMA 4E1 - 220 #/syd          | 1.71        | \$195,398.86        | Manlius (PS) \$32,977.82       | \$228,376.68        |
|      | Laketown, Mailius & Saugatuck | 140th Avenue - 64th Street to 60th Street, 63rd Street & 136th Avenue, Blue Star Highway to 60th Street                                      | Crack Seal                              | 3.67        | \$17,943.79         |                                | \$17,943.79         |
|      |                               |  | <b>SUB-TOTAL AREA 1</b>                 | <b>8.22</b> | <b>\$567,489.93</b> | <b>\$87,960.22</b>             | <b>\$655,450.15</b> |
| 2    | Monterey & Salem              | 30th Street - 134th Avenue to 140th Avenue   | Mill and Resurface, HMA 4E1 - 220 #/syd | 2.94        | \$442,767.63        |                                | \$442,767.63        |
|      | Overisel & Salem              | 146th Avenue - 38th Street to end of pavement east of 22nd Street  | Crack Seal                              | 7.04        | \$34,420.79         |                                | \$34,420.79         |
|      |                               |  | <b>SUB-TOTAL AREA 2</b>                 | <b>9.98</b> | <b>\$477,188.42</b> | <b>\$0.00</b>                  | <b>\$34,420.79</b>  |
| 3    | Hopkins                       | 128th Avenue - Village of Hopkins to 18th Street   | Mill and Resurface, HMA 4E1 - 275 #/syd | 1.74        | \$149,966.87        | ACRC (MTF) \$155,000.00        | \$304,966.87        |
|      | Dorr, Leighton & Wayland      | 146th Avenue - 24th Street east to end of pavement; 146th Avenue - Division Street to 7th Street; 10th Street - 124th Avenue to 129th Avenue | Crack Seal                              | 6.11        | \$29,824.84         |                                | \$29,824.84         |
|      |                               |  | <b>SUB-TOTAL AREA 3</b>                 | <b>7.85</b> | <b>\$179,791.71</b> | <b>\$155,000.00</b>            | <b>\$334,791.71</b> |

|   |                            |  |   |              |                       |   |  |                       |
|---|----------------------------|--|---|--------------|-----------------------|---|--|-----------------------|
| 4 | Ganges                     | Lakeshore Drive - 121st Avenue to 124th Avenue   | Renovate, Crush, Shape and Resurface, HMA 4E1 - 440 #/syd (2 courses) | 1.85         | \$724,311.50          | Ganges (REN)<br>Ganges (PS)<br>ACRC (MTF) | \$64,750.00<br>\$61,125.97<br>\$300,000.00 | \$1,150,187.47        |
|   | Ganges & Clyde             | 118th Avenue - 62nd Street to 57th Street  | Mill and Resurface, HMA 4E1 - 220 #/syd                               | 2.65         |                       | ACRC (MTF)                                | \$426,933.23                               | \$426,933.23          |
|   | Casco & Lee                | 109th Avenue - Blue Star Highway to 48th Street;<br>60th Street - Baseline Road to 109th Avenue  | Crack, Chip and Fog Seal  | 16.03        |                       | ACRC (MTF)                                | \$538,554.14                               | \$538,554.14          |
|   |                            |  | <b>SUB-TOTAL AREA 4</b>   | <b>20.53</b> | <b>\$724,311.50</b>   |   | <b>\$1,391,363.34</b>                      | <b>\$2,115,674.84</b> |
| 5 | Trowbridge                 | 102nd Avenue - M-40 to 26th Street   | Resurface, HMA 4E1 - 220 #/syd  | 3.49         |                       | ACRC (MTF)                                | \$488,001.04                               | \$488,001.04          |
|   | Allegan                    | 34th Street - Babylon Road to Dumont Road  | Resurface, HMA 4E1 - 220 #/syd  | 1.98         | \$251,449.46          | Allegan (PS)                              | \$18,873.10                                | \$270,322.56          |
|   | Cheshire & Trowbridge      | 46th Street - 108th Avenue to 109th Avenue; 109th Avenue - 48th Street to 46th Street; 108th Avenue - 46th Street to M-40  | Crack, Chip and Fog Seal  | 8.44         | \$298,248.18          |   |  | \$298,248.18          |
|   | Allegan, Cheshire & Watson | 114th Avenue - 26th Street to 24th Street; 24th Street - 114th Avenue to M-222; 42nd Street - 102nd Avenue to 104th Avenue   | Crack Seal  | 3.16         | \$13,030.03           |   |  | \$13,030.03           |
|   |                            |  | <b>SUB-TOTAL AREA 5</b>   | <b>17.07</b> | <b>\$562,727.67</b>   |   | <b>\$506,874.14</b>                        | <b>\$1,069,601.81</b> |
| 6 | Gun Plain                  | Pierce Road & 106th Avenue - Marsh Road to Doster Road   | Resurface, HMA 4E1 - 220 #/syd  | 2.47         | \$291,103.79          | Gun Plain (PS)                            | \$52,864.42                                | \$343,968.21          |
|   | Otsego                     | 16th Street - County line to 102nd Avenue  | Resurface, HMA 4E1 - 220 #/syd  | 1.02         |                       | ACRC (MTF)                                | \$148,818.93                               | \$148,818.93          |
|   | Martin                     | 116th Avenue - Village of Martin to 2nd Street   | Chip and Fog Seal   | 3.24         |                       | ACRC (MTF)                                | \$100,780.21                               | \$100,780.21          |
|   | Gun Plain, Martin & Otsego | 106th Avenue - City of Otsego to 10th Street; 10th Street - City of Plainwell to Village of Martin; 10th Street - Village of Martin to 124th Avenue; 11th Street - Baseline Road to 102nd Avenue | Crack Seal  | 11.93        | \$60,749.77           |   |  | \$60,749.77           |
|   |                            |  | <b>SUB-TOTAL AREA 6</b>   | <b>18.66</b> | <b>\$351,853.56</b>   |   | <b>\$302,463.56</b>                        | <b>\$654,317.12</b>   |
|   |                            |  | <b>GRAND TOTAL</b>  | <b>82.31</b> | <b>\$2,863,362.79</b> |   | <b>\$2,443,661.26</b>                      | <b>\$4,864,256.42</b> |

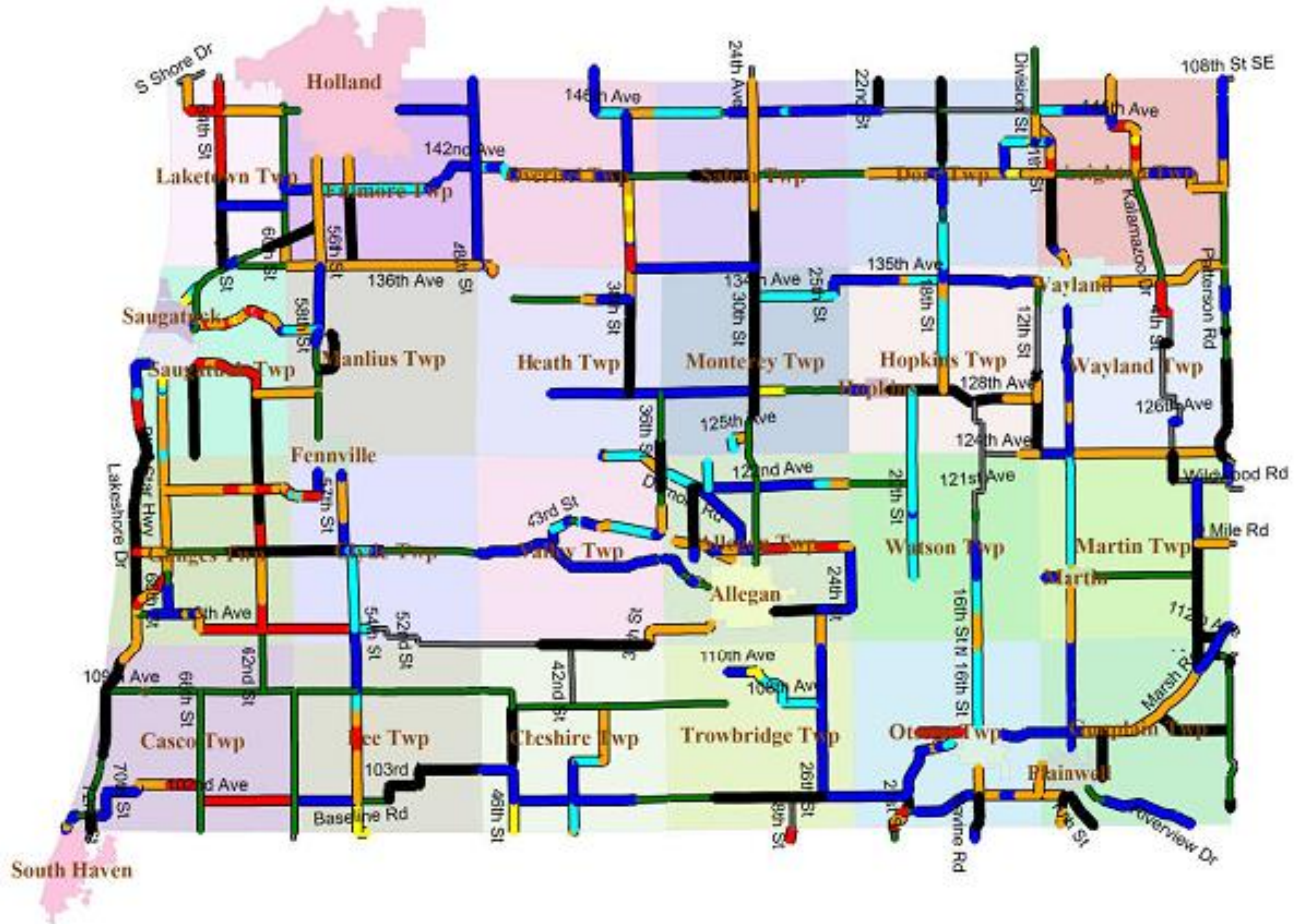


## Primary Roads - Average PASER Rating

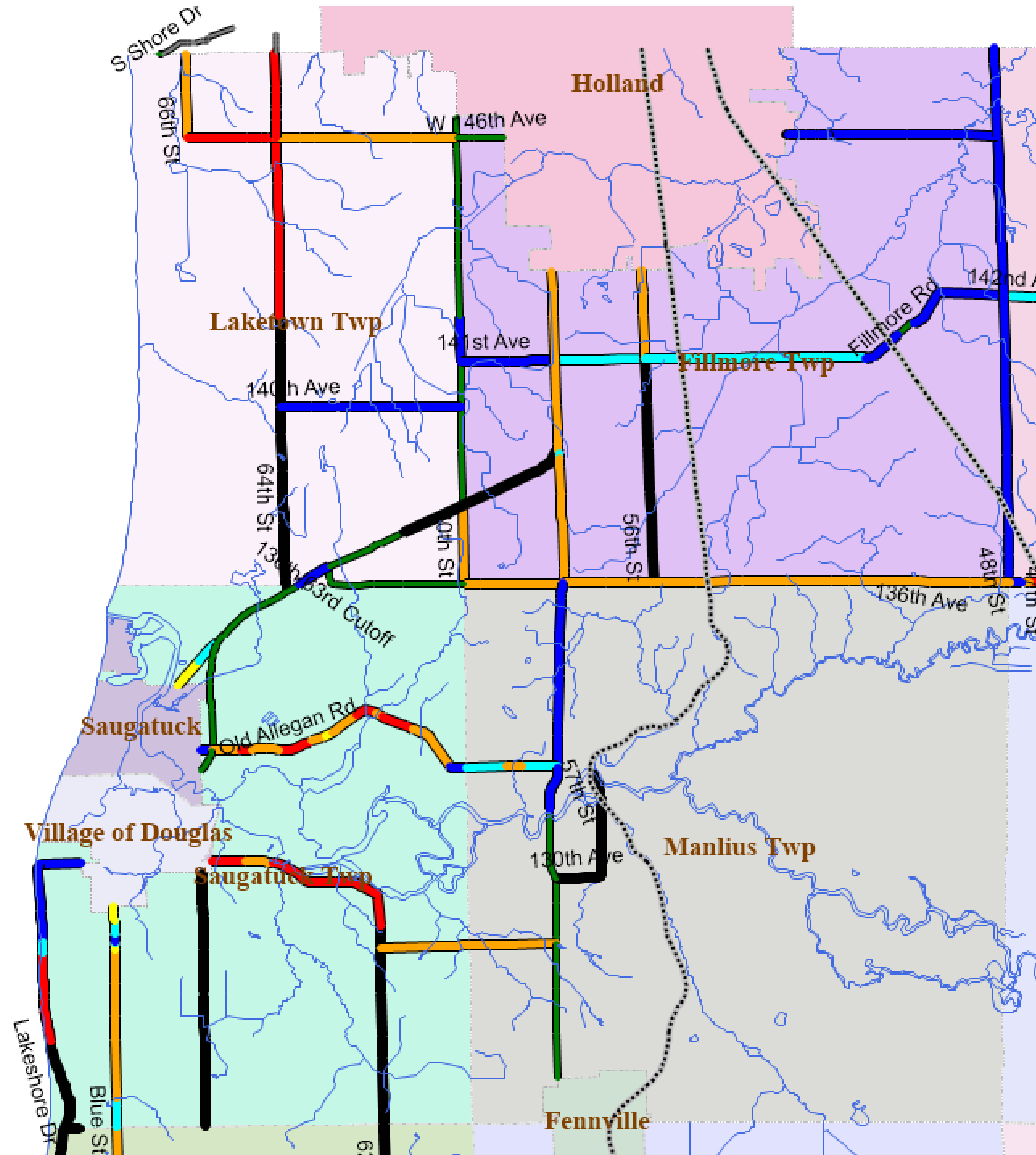


# 2021 PASER Ratings - Paved Primary Roads

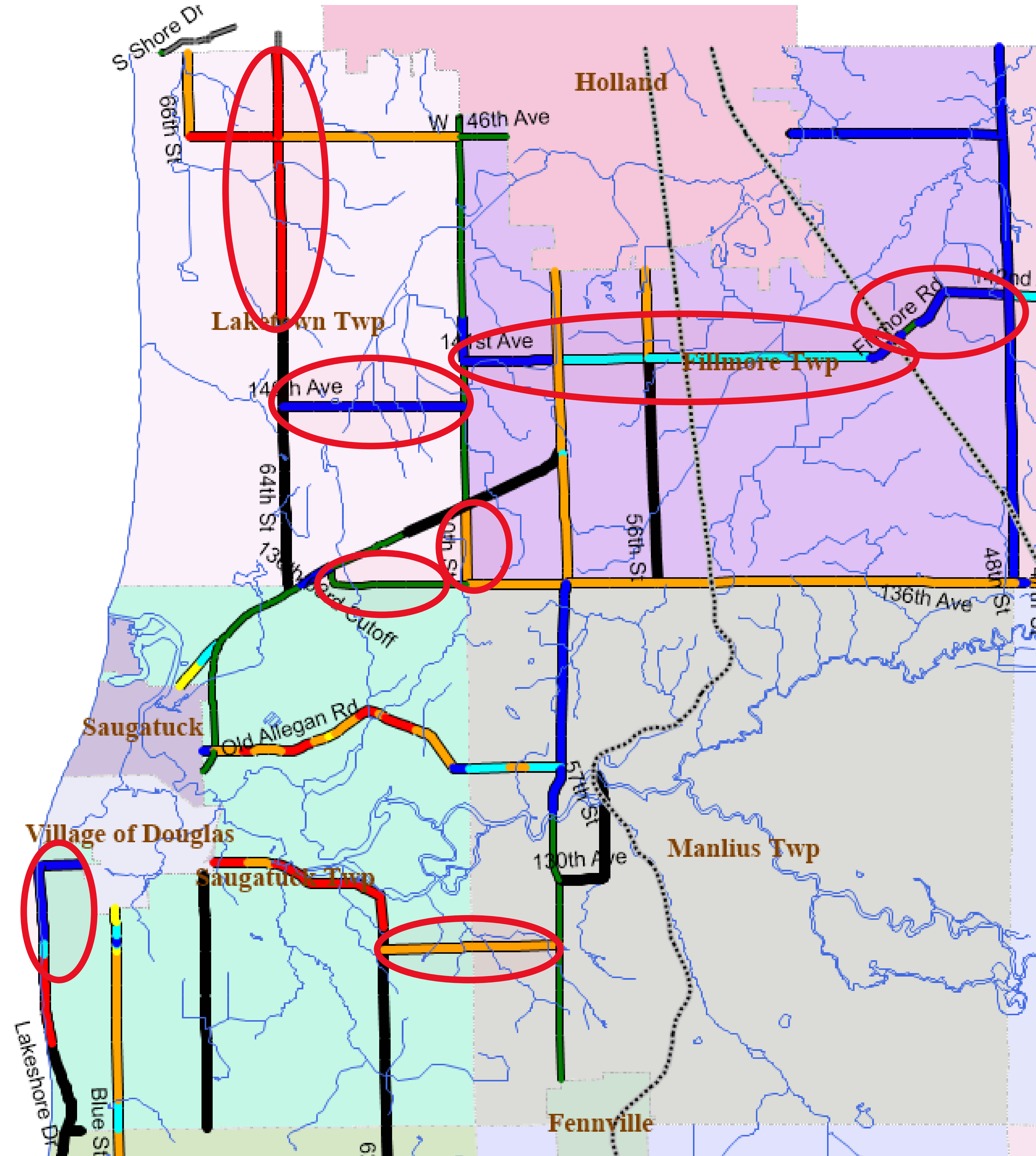
4.5 mi



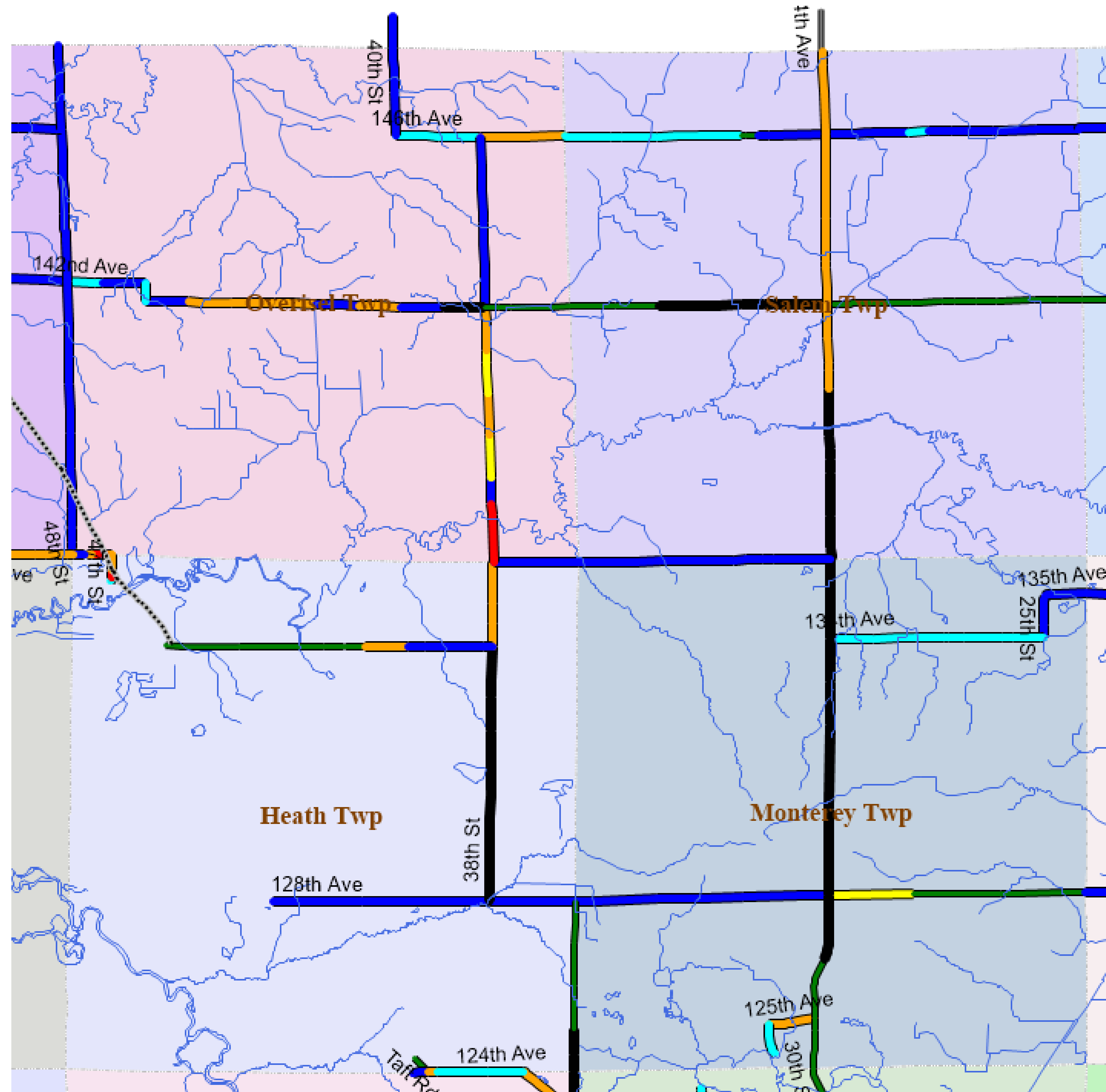
# AREA 1 – PASER RATINGS



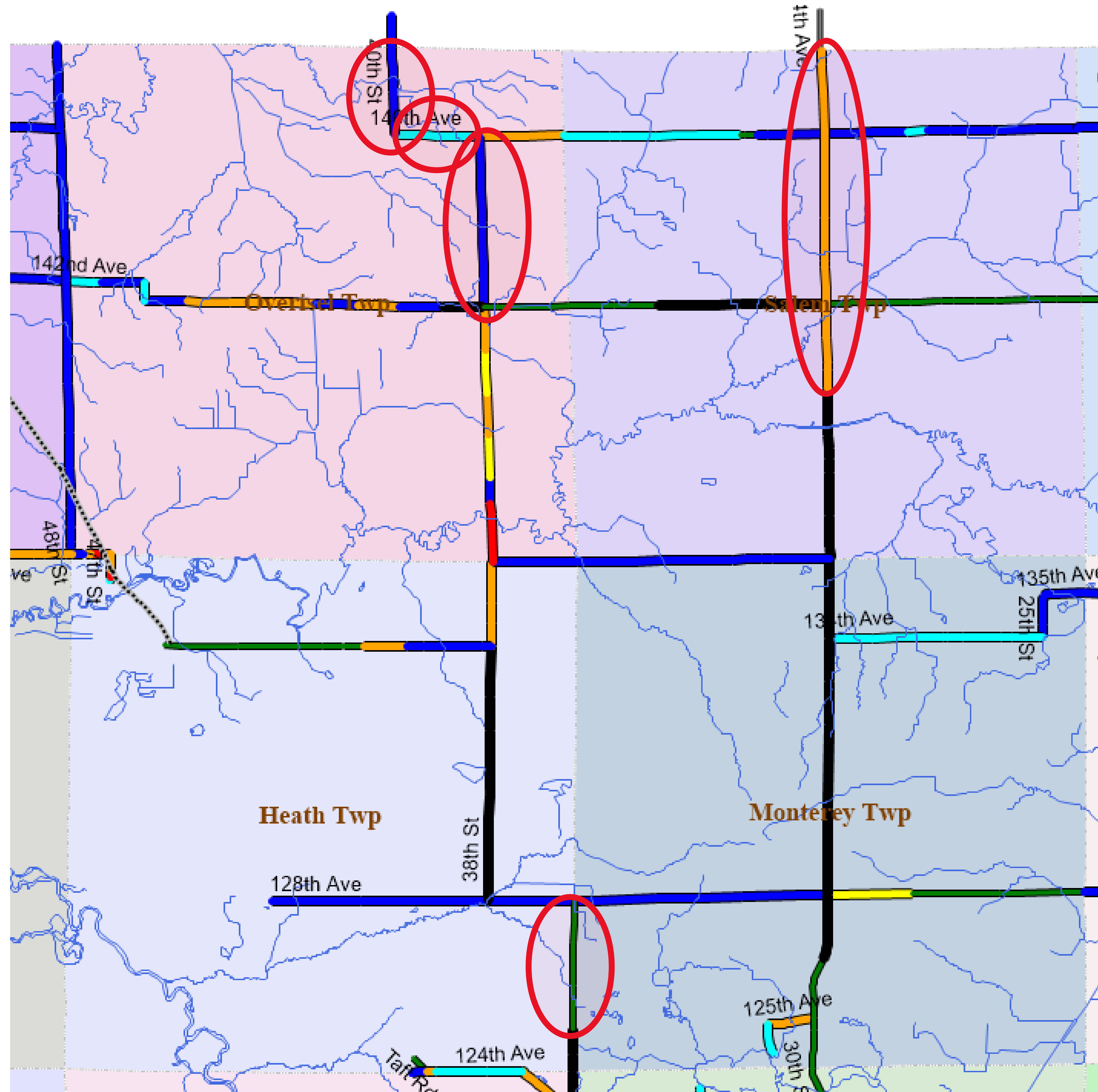
# 2022 PROPOSED PROJECTS – AREA 1



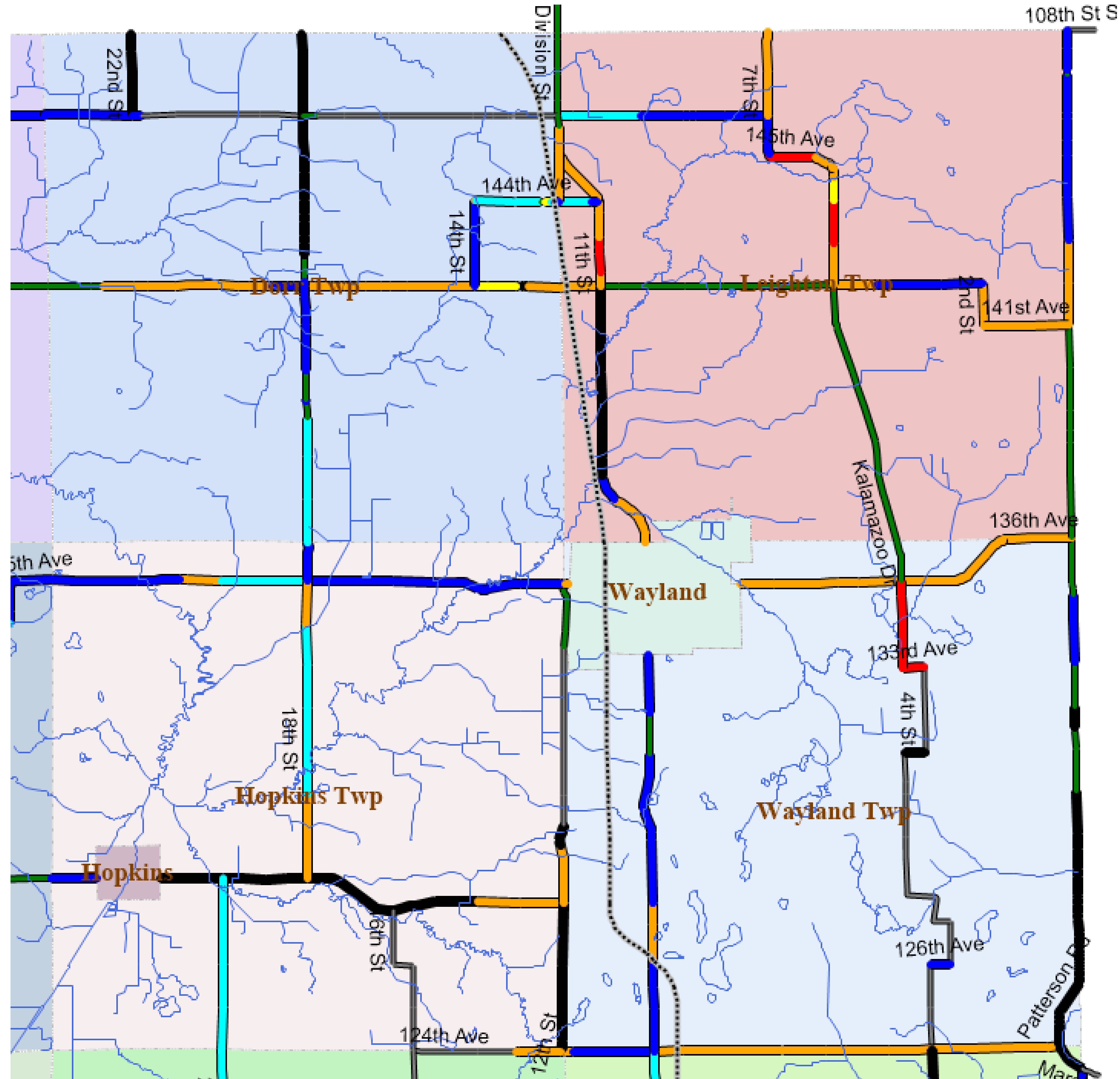
# AREA 2 – PASER RATINGS



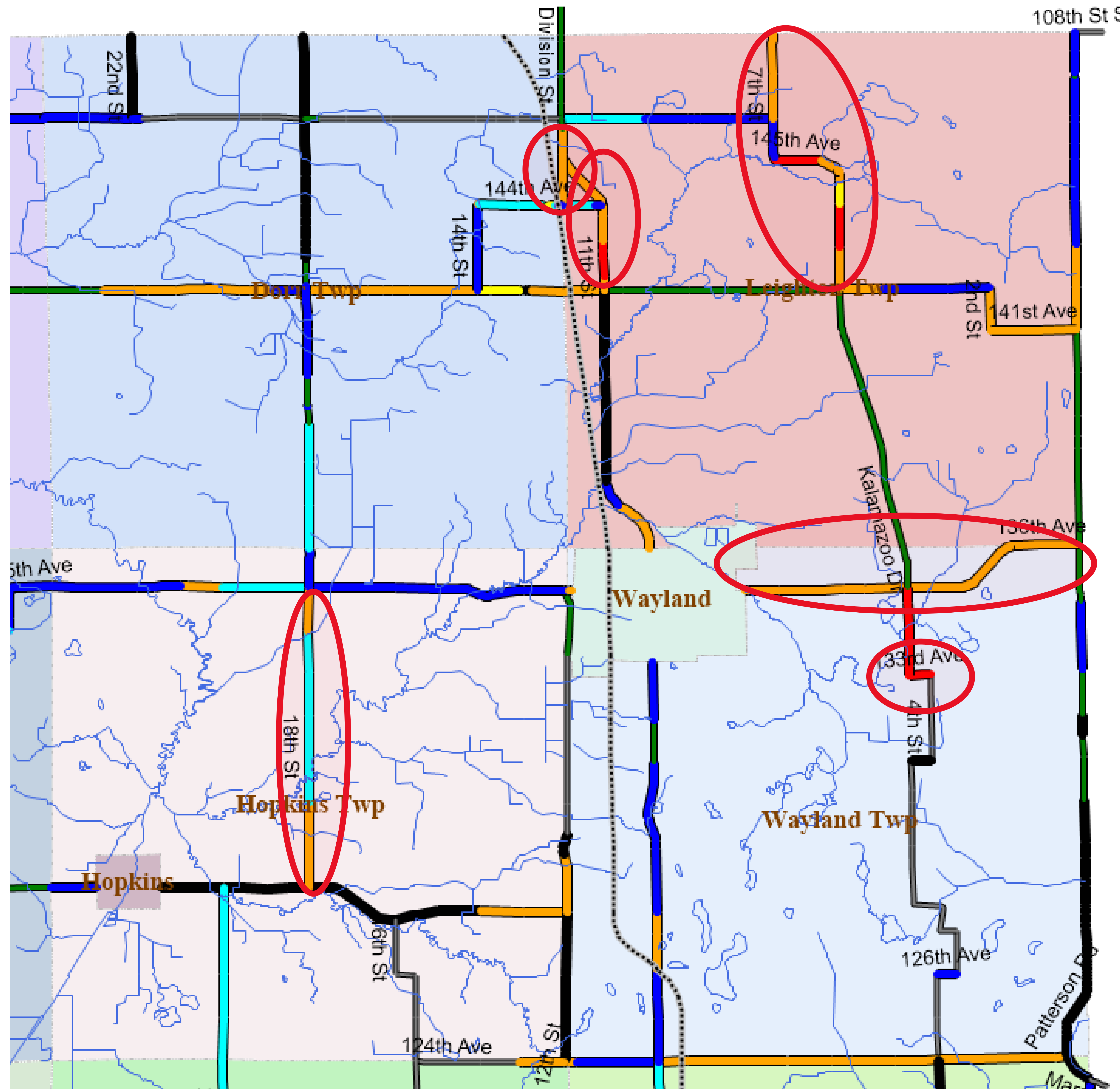
# 2022 PROPOSED PROJECTS – AREA 2



# AREA 3 – PASER RATINGS

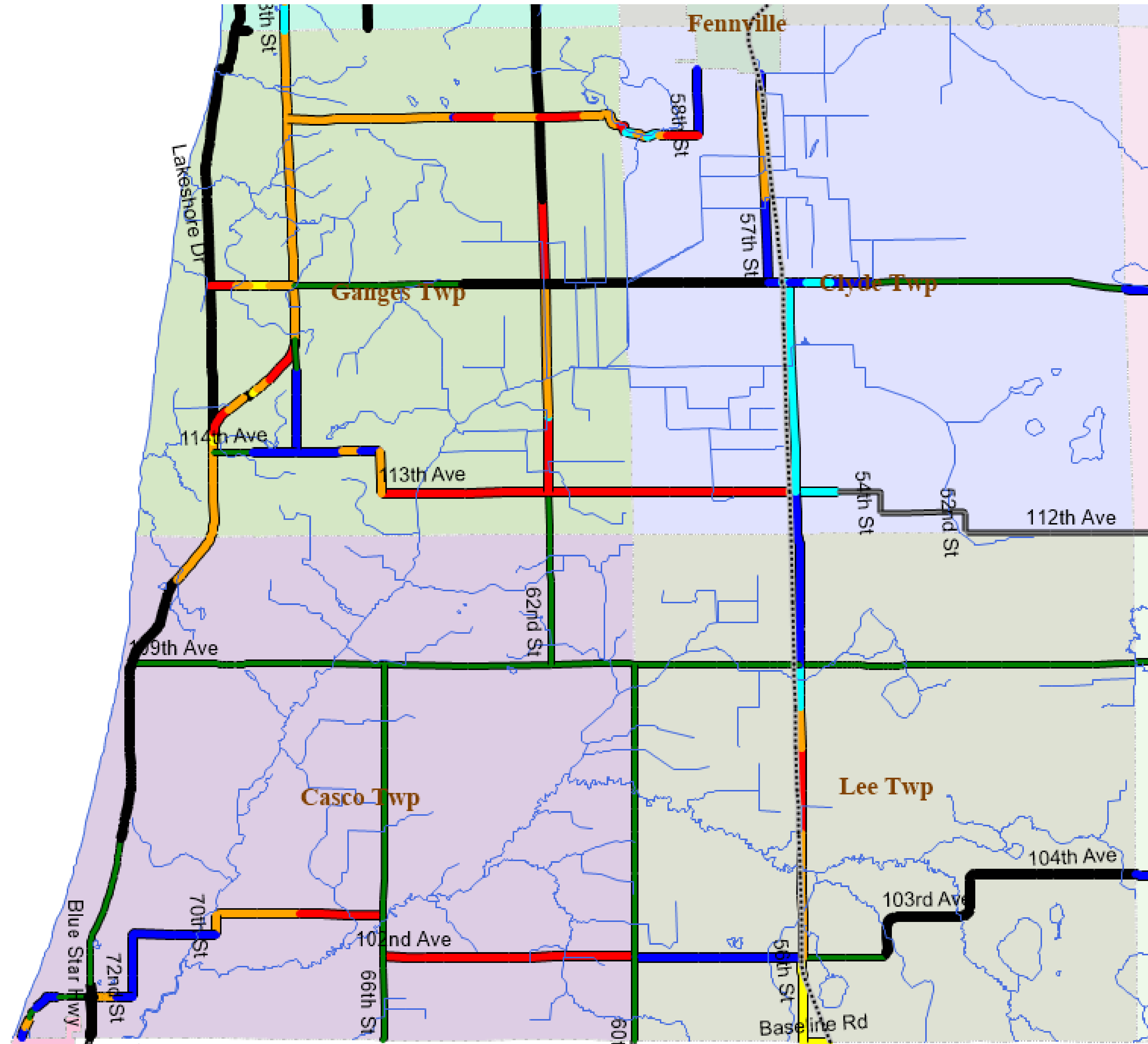


# 2022 PROPOSED PROJECTS – AREA 3

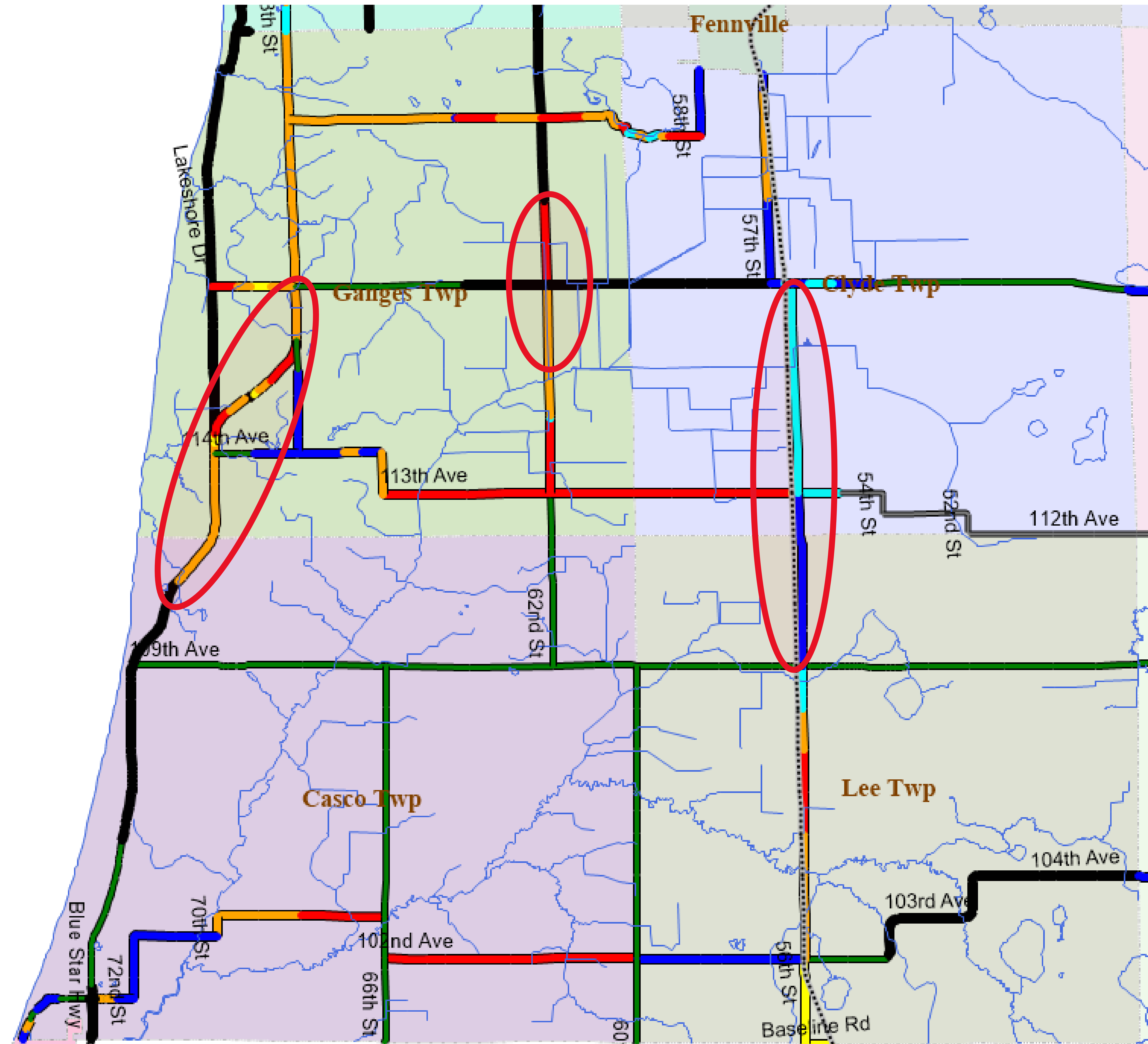




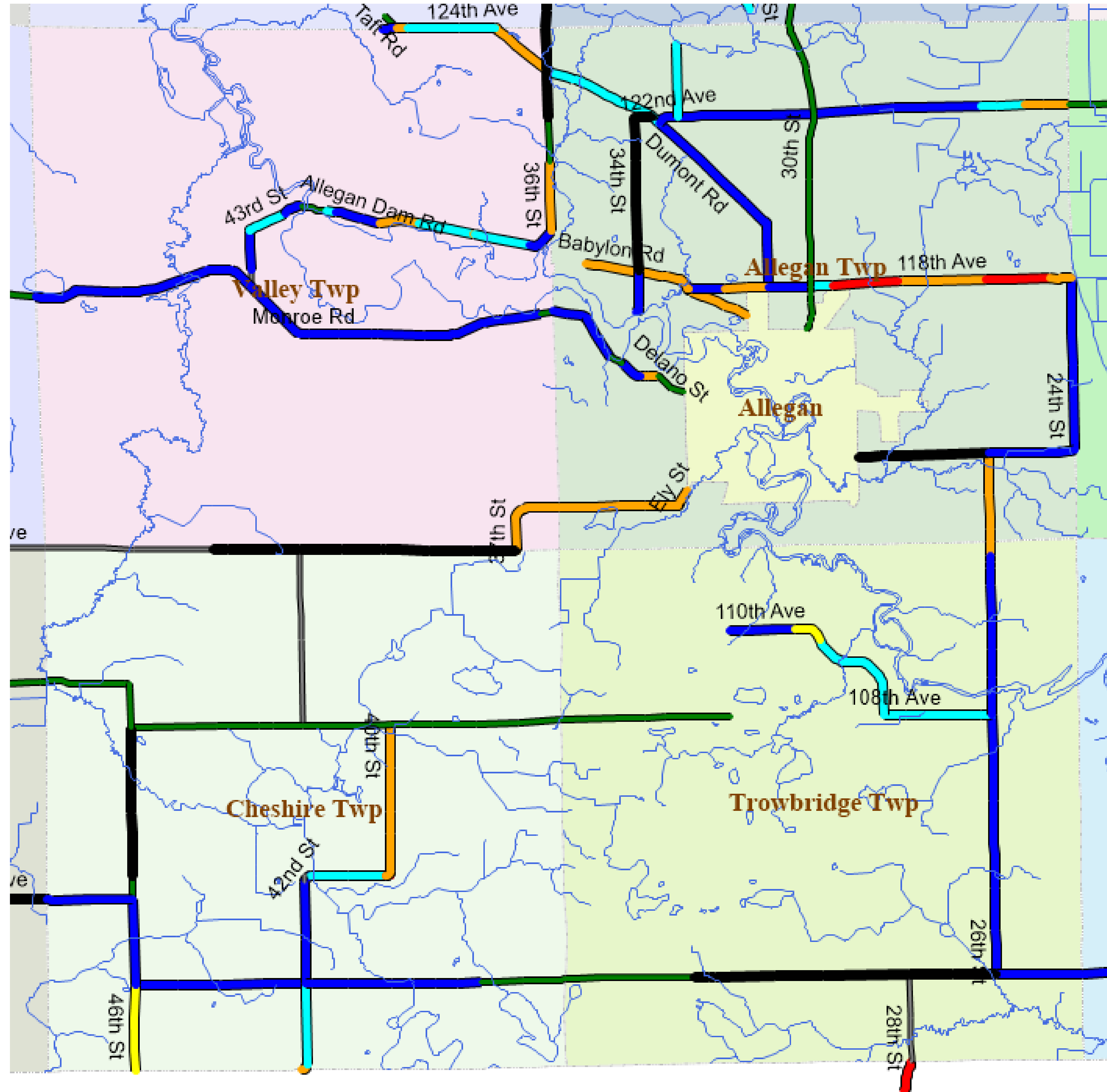
# AREA 4 – PASER RATINGS



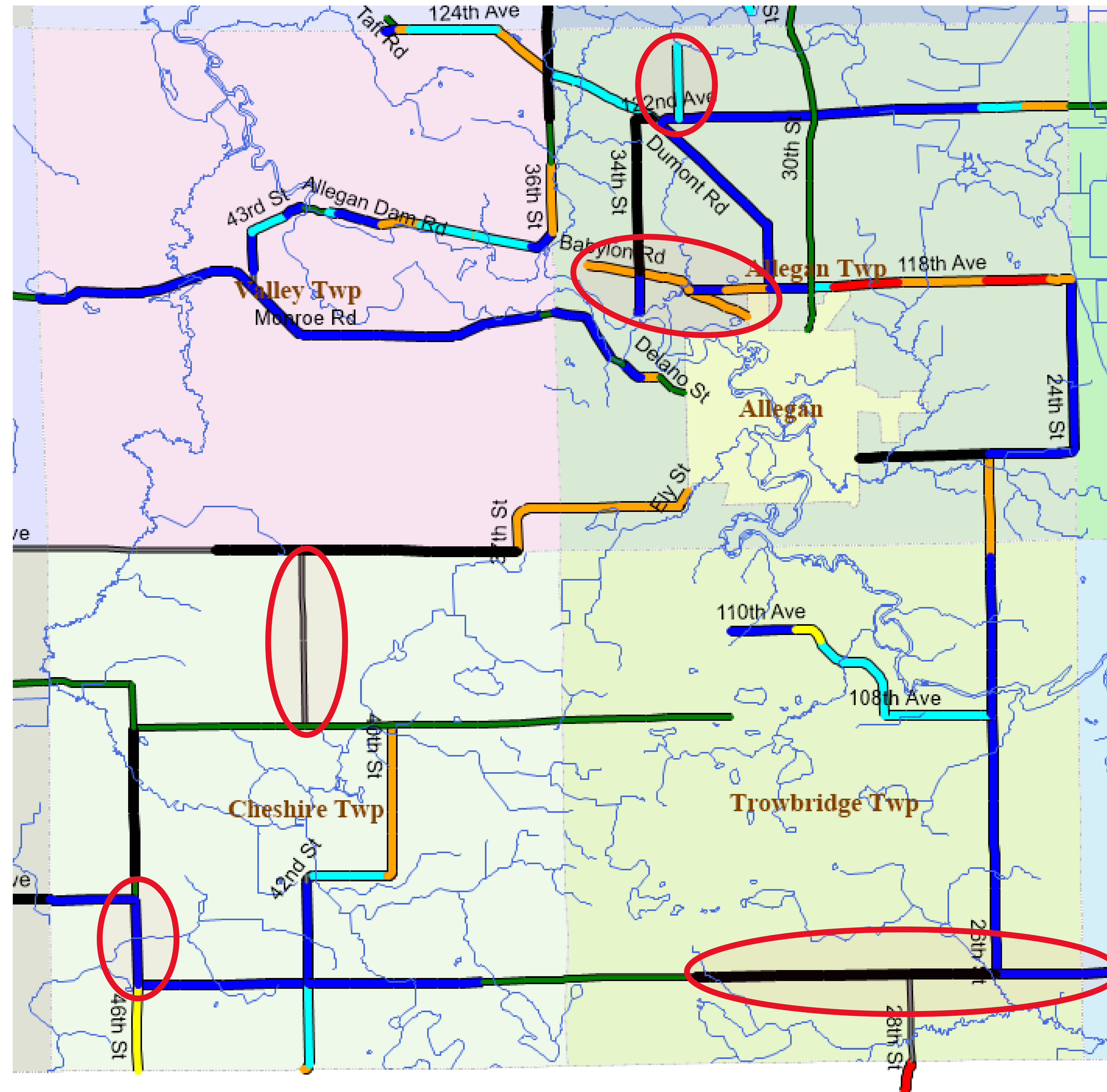
# 2022 PROPOSED PROJECTS – AREA 4



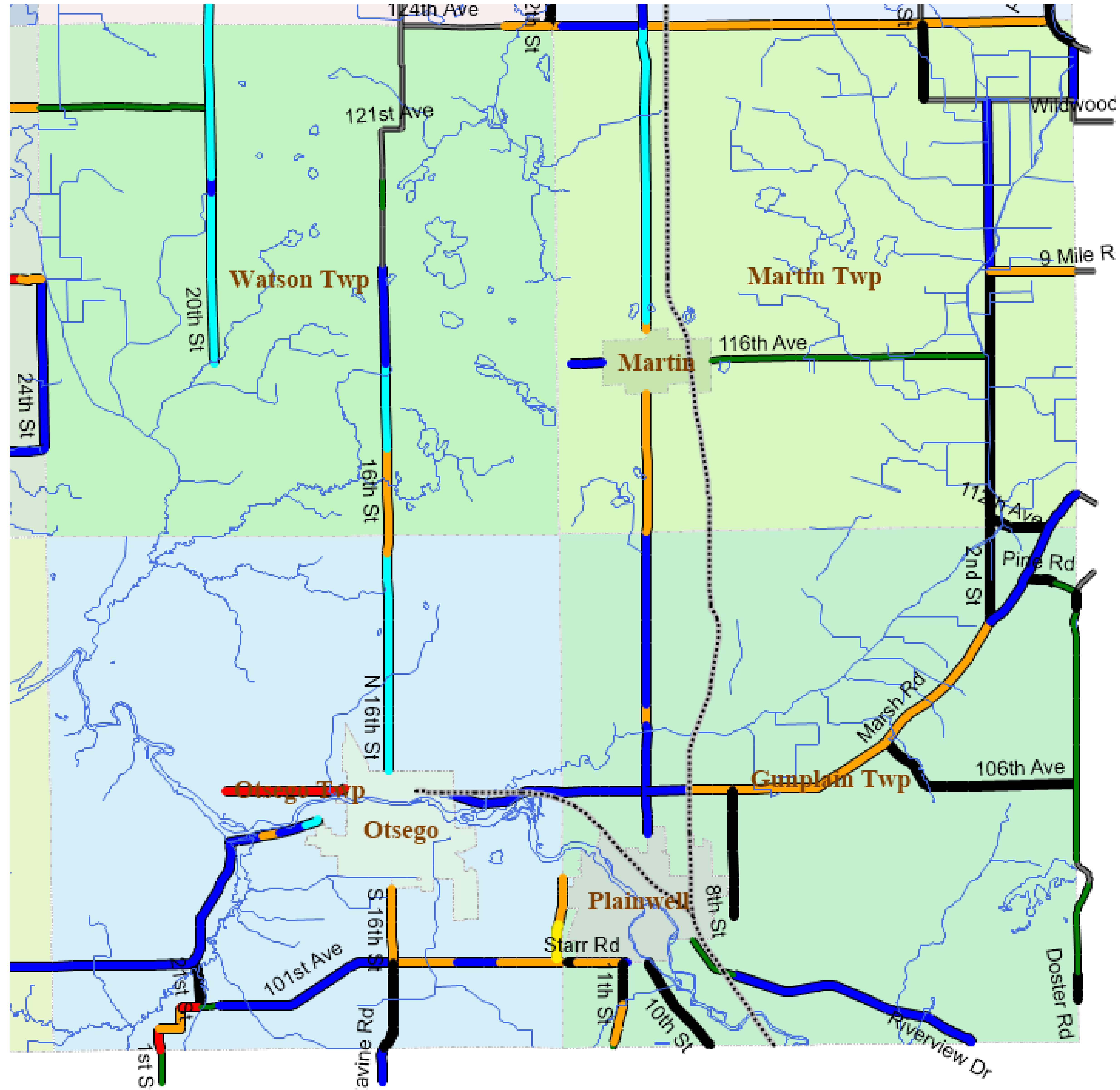
# AREA 5 – PASER RATINGS



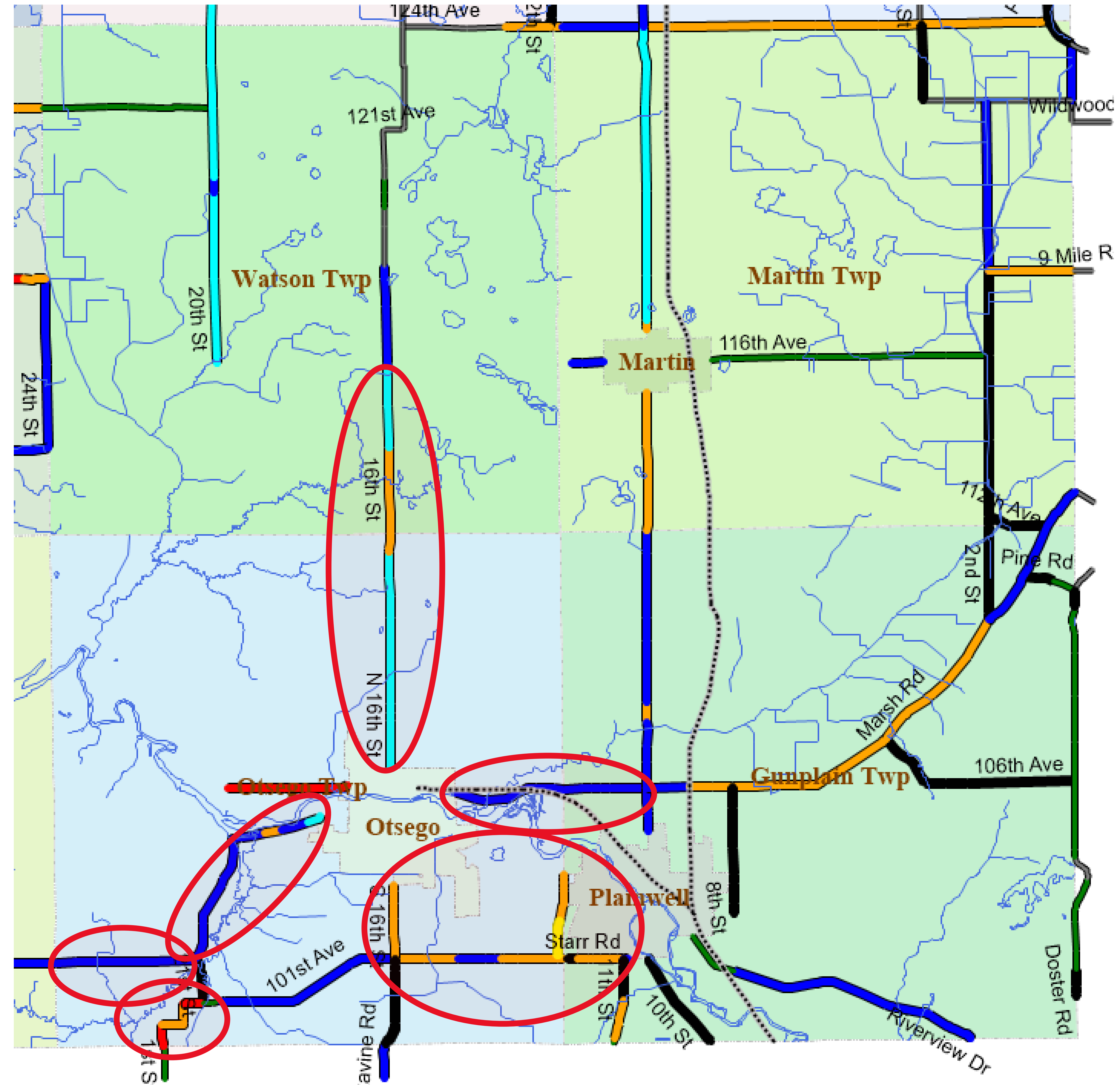
# 2022 PROPOSED PROJECTS – AREA 5



# AREA 6 – PASER RATINGS



# 2022 PROPOSED PROJECTS – AREA 6



**PRIMARY ROAD RESURFACING MILLAGE FUND  
2022 PROPOSED PROJECTS**

| AREA | TOWNSHIP                       | PROJECT LOCATION   | TYPE OF WORK  | MILES        | MILLAGE FUND COSTS    | TOWNSHIP & OTHER CONTRIBUTIONS                       | TOTAL COSTS           |
|------|--------------------------------|--|---|--------------|-----------------------|--|-----------------------|
| 1    | Laketown                       | 64th Street - 142nd Avenue to 32nd Street  | Mill and Resurface, HMA 4E1 - 220 #/syd                                     | 2.97         | \$580,000.00          |  | \$580,000.00          |
|      | Laketown, Fillmore & Manlius   | 60th Street & 136th Avenue - Blue Star Highway to 58th Street  | Resurface, HMA 4E1 - 220 #/syd  | 1.90         | \$100,000.00          | Federal (STP) \$300,000.00                           | \$400,000.00          |
|      | Laketown, Fillmore & Saugatuck | 140th Avenue - 64th Street to 60th Street; 63rd Street & 136th Avenue - Blue Star Highway to 60th Street; 141st Avenue/Fillmore Road/142nd Avenue - 60th Street to 48th Street | Chip and Fog Seal   | 10.07        | \$230,000.00          | ACRC (MTF) \$50,000.00                               | \$280,000.00          |
|      | Saugatuck & Manlius            | 128th Avenue - 62nd Street to 58th Street; Lakeshore Drive - south of 130th Avenue; 130th Avenue (Wiley Road) - Lakeshore Drive to Douglas City Limits                         | Crack Seal  | 3.46         | \$20,000.00           |  | \$20,000.00           |
|      |                                |  | <b>SUB-TOTAL AREA 1</b>   | <b>18.40</b> | <b>\$930,000.00</b>   | <b>\$350,000.00</b>                                  | <b>\$1,280,000.00</b> |
| 2    | Salem                          | 30th Street - 140th Avenue to Ottogan Street   | Mill and Resurface, HMA 4E1 - 220 #/syd                                     | 3.91         | \$710,000.00          |  | \$710,000.00          |
|      | Overisel                       | 38th Street - 142nd Avenue to 146th Avenue; 36th Street - 125th Avenue to 128th Avenue   | Chip and Fog Seal   | 3.50         | \$100,000.00          |  | \$100,000.00          |
|      | Overisel                       | 40th Street - 146th Avenue to county line; 146th Avenue - 40th Street to 38th Street   | Crack Seal  | 2.03         | \$15,000.00           |  | \$15,000.00           |
|      |                                |  | <b>SUB-TOTAL AREA 2</b>   | <b>9.44</b>  | <b>\$825,000.00</b>   | <b>\$0.00</b>  | <b>\$825,000.00</b>   |
| 3    | Leighton                       | Division Street - 142nd Avenue to 1,000' south of 146th Avenue   | Crush, Shape and Resurface, HMA 4E1 - 440 #/syd (2 courses)                 | 2.02         | \$65,000.00           | Federal (STP) \$600,000.00<br>State (D) \$150,000.00 | \$815,000.00          |
|      | Wayland                        | 135th Avenue, Hayes Road, 136th Avenue - City of Wayland to Patterson Road   | Resurface, HMA 4E1 - 220 #/syd  | 4.09         | \$85,000.00           | Federal (STP) \$550,000.00<br>State (D) \$140,000.00 | \$775,000.00          |
|      | Wayland                        | 133rd Avenue - 4th Street to 4th Street  | Reconstruct for future paving   | 0.25         | \$115,000.00          |  | \$115,000.00          |
|      | Dorr & Leighton                | 12th Street - 144th Avenue to Division Street  | Mill and Resurface, HMA 4E1 - 220 #/syd, realign intersection with Division | 0.59         | \$175,000.00          |  | \$175,000.00          |
|      | Leighton                       | Kalamazoo Drive, 145th Avenue & 7th Street - 142nd Avenue to County Line   | Resurface, HMA 4E1 - 220 #/syd  | 3.64         | \$520,000.00          | Leighton (PS) \$80,000.00                            | \$600,000.00          |
|      | Hopkins                        | 18th Street - 128th Avenue to 135th Avenue   | Chip and Fog Seal   | 3.52         | \$100,000.00          |  | \$100,000.00          |
|      |                                |  | <b>SUB-TOTAL AREA 3</b>   | <b>14.11</b> | <b>\$1,060,000.00</b> | <b>\$1,520,000.00</b>                                | <b>\$2,580,000.00</b> |

|   |                    |   |   |              |                       |  |                       |
|---|--------------------|---|---|--------------|-----------------------|--|-----------------------|
| 4 | Casco & Ganges     | Blue Star Highway - 111th Avenue to 118th Avenue  | Renovate, Crush, Shape and Resurface, HMA 4E1 - 440 #/syd (2 courses) | 3.30         | \$52,000.00           | ACRC (MTF) \$1,148,000.00                                | \$1,200,000.00        |
|   | Ganges             | 62nd Street - 116th Avenue to 120th Avenue  | Resurface, HMA 4E1 - 220 #/syd  | 1.99         | \$350,000.00          | Ganges (PS) \$50,000.00                                  | \$400,000.00          |
|   | Lee                | 56th Street - 109th Avenue to 118th Avenue  | Crack, Chip and Fog Seal  | 4.56         | \$160,000.00          |  | \$160,000.00          |
|   |                    |   | <b>SUB-TOTAL AREA 4</b>   | <b>9.85</b>  | <b>\$562,000.00</b>   | <b>\$1,198,000.00</b>                                    | <b>\$1,760,000.00</b> |
| 5 | Cheshire           | 42nd Street - 108th Avenue to 112th Avenue  | Reconstruct for future paving   | 2.00         | \$400,000.00          | ACRC (MTF) \$400,000.00<br>Cheshire (RECON) \$100,000.00 | \$900,000.00          |
|   | Cheshire           | 46th Street - 102nd Avenue to 104th Avenue  | Chip and Fog Seal   | 1.00         | \$30,000.00           |  | \$30,000.00           |
|   | Allegan            | Babylon Road - M-40 to City of Allegan; 118th Avenue - Babylon Road to Dumont Road; 33rd Street - 122nd Avenue to Dumont Lake; 102nd Avenue - M-40 to 24th Street | Crack, Chip and Fog Seal  | 8.27         | \$270,000.00          |  | \$270,000.00          |
|   |                    |   | <b>SUB-TOTAL AREA 5</b>   | <b>11.27</b> | <b>\$700,000.00</b>   | <b>\$500,000.00</b>                                      | <b>\$1,200,000.00</b> |
| 6 | Otsego             | 21st Street & 101st Avenue - County line to 21st Street   | Resurface, HMA 4E1 - 220 #/syd  | 0.99         | \$160,000.00          |  | \$160,000.00          |
|   | Otsego             | 16th Street - 102nd Avenue to City of Otsego  | Mill and Resurface, HMA 4E1 - 220 #/syd                               | 1.02         | \$175,000.00          |  | \$175,000.00          |
|   | Otsego & Gun Plain | 102nd Avenue - 16th Street to 11th Street   | Mill and Resurface, HMA 4E1 - 220 #/syd                               | 2.69         | \$475,000.00          |  | \$475,000.00          |
|   | Otsego & Gun Plain | 12th Street - 102nd Avenue to M-89  | Mill and Resurface, HMA 4E1 - 220 #/syd                               | 1.01         | \$175,000.00          |  | \$175,000.00          |
|   | Otsego & Gun Plain | 102nd Avenue - 24th Street to 21st Street; 16th Street - Otsego City Limits to M-222; 106th Avenue - Otsego City Limits to 10th Street                            | Chip and Fog Seal   | 8.66         | \$250,000.00          |  | \$250,000.00          |
|   | Otsego             | Jefferson Road - 21st Street to M-89; 16th Street - 112th Avenue to M-222   | Crack Seal  | 4.61         | \$30,000.00           |  | \$30,000.00           |
|   |                    |   | <b>SUB-TOTAL AREA 6</b>   | <b>18.98</b> | <b>\$1,265,000.00</b> | <b>\$0.00</b>  | <b>\$1,265,000.00</b> |
|   |                    |   | <b>GRAND TOTAL</b>  | <b>82.05</b> | <b>\$5,342,000.00</b> | <b>\$3,568,000.00</b>                                    | <b>\$8,910,000.00</b> |



# ***AREA FUND BALANCES***

## **2021 Preliminary Balances**

| Area   | Final 2020 Balances | Preliminary Revenues | Preliminary Expenses | Preliminary 2021 Balance |
|--------|---------------------|----------------------|----------------------|--------------------------|
| 1      | \$231,159.73        | \$641,818.63         | \$567,489.93         | \$305,488.43             |
| 2      | \$69,039.82         | \$641,818.63         | \$477,188.42         | \$233,670.03             |
| 3      | \$24,487.35         | \$641,818.63         | \$179,791.71         | \$486,514.27             |
| 4      | -\$61,997.93        | \$641,818.63         | \$724,311.50         | -\$144,490.80            |
| 5      | \$70,651.87         | \$641,818.63         | \$562,727.67         | \$149,742.83             |
| 6      | \$126,639.21        | \$641,818.63         | \$351,853.56         | \$416,604.28             |
| Totals | \$459,980.04        | \$3,850,911.78       | \$2,863,362.79       | \$1,447,529.03           |

## **2022 Estimated Balances**

| Area   | Preliminary 2021 Balances | Estimated Revenues | Estimated Expenses | Estimated 2021 Balance |
|--------|---------------------------|--------------------|--------------------|------------------------|
| 1      | \$305,488.43              | \$650,000.00       | \$930,000.00       | \$25,488.43            |
| 2      | \$233,670.03              | \$650,000.00       | \$825,000.00       | \$58,670.03            |
| 3      | \$486,514.27              | \$650,000.00       | \$1,060,000.00     | \$76,514.27            |
| 4      | -\$144,490.80             | \$650,000.00       | \$562,000.00       | -\$56,490.80           |
| 5      | \$149,742.83              | \$650,000.00       | \$700,000.00       | \$99,742.83            |
| 6      | \$416,604.28              | \$650,000.00       | \$1,265,000.00     | -\$198,395.72          |
| Totals | \$1,447,529.03            | \$3,900,000.00     | \$5,342,000.00     | \$5,529.03             |

| PRIMARY ROAD RESURFACING MILLAGE FUND<br>FUTURE PROPOSED PROJECTS |                     |   |  |              |                       |  |                       |
|---|---------------------|---|--|--------------|-----------------------|--|-----------------------|
| AREA  | TOWNSHIP            | PROJECT LOCATION  | TYPE OF WORK   | MILES        | MILLAGE FUND COSTS    | TOWNSHIP & OTHER CONTRIBUTIONS                         | TOTAL COSTS           |
| 1   | All                 | 136th Ave, 58th St to 50th St (2023)                                  | Resurface, HMA 4E1 - 220 #/syd   | 4.00         | \$300,000.00          | MACC-Urban \$400,000.00                                | \$700,000.00          |
|   | Saugatuck           | Old Allegan Rd, Blue Star Hwy to 58th St                              | Mill and Resurface, HMA 4E1 - 220 #/syd  | 4.24         | \$775,000.00          |  | \$775,000.00          |
|   | Saugatuck           | Riverside Dr & 62nd St, Village of Douglas to 128th Ave               | Mill and Resurface, HMA 4E1 - 220 #/syd  | 2.55         | \$475,000.00          |  | \$475,000.00          |
|   | Laketown & Fillmore | Blue Star Highway - 500' south of 142nd Avenue to 143rd Avenue (2024) | Crush, Shape, and Resurface; Widen to include center left turn lane                                | 0.60         | \$160,000.00          | MACC-Urban \$170,000.00<br>CMAQ (Rural) \$500,000.00   | \$830,000.00          |
|   | Saugatuck           | Riverside Dr & 62nd St, Village of Douglas to 128th Ave               | Mill and Resurface, HMA 4E1 - 220 #/syd  | 4.55         | \$475,002.00          |  | \$475,002.00          |
|   | Fillmore            | 48th Street - 142nd Avenue to Ottogan Street (2025)                   | Mill and Resurface, HMA 4E1 - 220 #/syd (split with Area 2)  | 2.77         | \$111,625.00          | MACC-Urban \$400,000.00<br>Area 2 111625.00            | \$623,250.00          |
|   | Fillmore & Manlius  | 136th Avenue - 50th Street to 48th Street (2026)                      | Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses) Widen to include center left turn lane | 1.22         | \$710,000.00          | MACC-Urban \$370,000.00<br>CMAQ (Rural) \$620,000.00   | \$1,700,000.00        |
|   |                     | <b>SUB-TOTAL AREA 1</b>   |  | <b>19.93</b> | <b>\$3,006,627.00</b> | <b>\$2,571,625.00</b>                                  | <b>\$5,578,252.00</b> |
| 2   | Overisel            | 48th Street - 142nd Avenue to Ottogan Street (2025)                   | Mill and Resurface, HMA 4E1 - 220 #/syd (split with Area 1)  | 2.77         | \$111,625.00          | MACC-Urban \$400,000.00<br>Area 1 111625.00            | \$623,250.00          |
|   | Overisel            | 142nd Ave, 48th St to 46th St & 46th St, 142nd Ave to 142nd Ave       | Mill and Resurface, HMA 4E1 - 220 #/syd  | 1.14         | \$250,000.00          |  | \$250,000.00          |
|   | Overisel            | 142nd Ave, 46th St to 39th St   | Resurface, HMA 4E1 - 220 #/syd   | 3.50         | \$485,000.00          | Overisel (PS) \$90,000.00                              | \$575,000.00          |
|   | Heath               | 134th Ave, 41st St to 38th St & 38th St, 134th Ave to 136th Ave       | Mill and Resurface, HMA 4E1 - 220 #/syd  | 2.48         | \$450,000.00          |  | \$450,000.00          |
|   | Overisel            | 38th St, 136th Ave to 142nd Ave                                       | Mill and Resurface, HMA 4E1 - 220 #/syd  | 2.99         | \$550,000.00          |  | \$550,000.00          |
|   |                     | <b>SUB-TOTAL AREA 2</b>   |  | <b>12.88</b> | <b>\$1,846,625.00</b> | <b>\$601,625.00</b>                                    | <b>\$2,448,250.00</b> |
| 3   | Leighton            | Division St, Wayland City Limits to 1,000' south of 138th Ave         | Mill, Chipseal, and Resurface, HMA 4E1 - 220 #/syd   | 1.00         | \$220,000.00          |  | \$220,000.00          |
|   | Wayland             | 4th St, 133rd Ave to 135th Ave  | Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses)                              | 1.02         | \$390,000.00          | Wayland (REN) \$35,000.00<br>Wayland (PS) \$25,000.00  | \$450,000.00          |
|   | Dorr                | 142nd Ave, 23rd St to Division (2024)                                 | Mill and Resurface, HMA 4E1 - 220 #/syd  | 5.92         | \$200,000.00          | Federal \$1,100,000.00<br>State D \$300,000.00         | \$1,600,000.00        |
|   | Dorr                | 146th Ave, 22nd St to 18th St   | Reconstruct for Future Paving  | 1.90         | \$400,000.00          | ACRC (MTF) \$400,000.00<br>Dorr (Recon) \$95,000.00    | \$895,000.00          |
|   | Dorr                | 146th Ave, 22nd St to 18th St   | Resurface, HMA 4E1 - 440 #/syd (2 courses)   | 1.90         | \$480,000.00          | Dorr (PS) \$80,000.00                                  | \$560,000.00          |
|   | Hopkins/Watson      | 124th Ave, 15th St east to Existing Asphalt                           | Reconstruct for Future Paving (1/2 per area)   | 1.20         | \$125,000.00          | ACRC (MTF) \$125,000.00<br>Hopkins (Recon) \$30,000.00 | \$280,000.00          |
|   | Hopkins/Watson      | 124th Ave, 15th St east to Existing Asphalt                           | Resurface, HMA 4E1 - 440 #/syd (2 courses)(1/2 per area)   | 1.20         | \$160,000.00          | Hopkins (PS) \$25,000.00                               | \$185,000.00          |
|   |                     | <b>SUB-TOTAL AREA 3</b>   |  | <b>14.14</b> | <b>\$1,975,000.00</b> | <b>\$2,215,000.00</b>                                  | <b>\$4,190,000.00</b> |

|   |                  |  |   |              |                        |                               |                                |                        |
|---|------------------|--|---|--------------|------------------------|-------------------------------|--------------------------------|------------------------|
| 4 | Ganges           | Blue Star Highway - 118th Avenue to M-89                                 | Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses) | 3.05         |                        | Federal                       |                                |                        |
|   | Ganges & Clyde   | 122nd Ave, Blue Star Hwy to 58th St                                      | Resurface, HMA 4E1 - 220 #/syd  | 5.04         | \$695,000.00           | Ganges (PS)<br>Clyde (PS)     | \$100,000.00<br>\$25,000.00    | \$820,000.00           |
|   | Lee              | 56th St, 102nd Ave to 109th Ave  | Resurface, HMA 4E1 - 220 #/syd  | 3.49         | \$470,000.00           | Lee (PS - 2.5 mi)             | \$90,000.00                    | \$560,000.00           |
|   | Casco            | 102nd Ave, 66th St to 60th St  | Resurface, HMA 4E1 - 220 #/syd  | 2.99         | \$480,000.00           |                               |                                | \$480,000.00           |
|   | Ganges           | 113th Avenue - 66th Street to 58th Street                                | Resurface, HMA 4E1 - 220 #/syd  | 4.94         | \$790,000.00           |                               |                                | \$790,000.00           |
|   |                  |  | <b>SUB-TOTAL AREA 4</b>   | <b>19.51</b> | <b>\$2,435,000.00</b>  |                               | <b>\$215,000.00</b>            | <b>\$2,650,000.00</b>  |
| 5 | Allegan          | 26th St, M-89 to 114th Ave (2023)  | Resurface, HMA 4E1 - 220 #/syd  | 1.26         | \$45,000.00            | Small Urban                   | \$155,000.00                   | \$200,000.00           |
|   | Allegan          | Monroe Rd, Grove St to M-40 (2023)                                       | Resurface, HMA 4E1 - 220 #/syd  | 1.37         | \$55,000.00            | Small Urban                   | \$140,000.00                   | \$195,000.00           |
|   | Allegan          | 118th Ave, Industrial Dr to 24th St                                      | Renovate and Resurface HMA 4E1 - 220 #/syd                            | 2.60         | \$400,000.00           | Allegan (REN)<br>Allegan (PS) | \$91,000.00<br>\$65,000.00     | \$556,000.00           |
|   | Cheshire         | 104th Ave & 40th St, 42nd St to 108th Ave                                | Resurface, HMA 4E1 - 220 #/syd  | 3.00         | \$375,000.00           | Cheshire (PS)                 | \$75,000.00                    | \$450,000.00           |
|   | Allegan & Valley | 37th Street, 113th Avenue, 33rd Street - 112th Avenue to City of Allegan | Mill and Resurface, HMA 4E1 - 220 #/syd                               | 2.51         | \$440,000.00           |                               |                                | \$440,000.00           |
|   | Cheshire         | 42nd St, 108th Ave to 112th Ave  | Pave, HMA 4E1 - 440 #/syd (2 courses)                                 | 2.00         | \$320,000.00           | Cheshire (PS)                 | \$80,000.00                    | \$400,000.00           |
|   |                  |  | <b>SUB-TOTAL AREA 5</b>   | <b>12.74</b> | <b>\$1,635,000.00</b>  |                               | <b>\$606,000.00</b>            | <b>\$2,241,000.00</b>  |
| 6 | Gun Plain        | 106th Ave & Marsh Rd, 10th St to County Line (2023)                      | Resurface, HMA 4E1 - 220 #/syd  | 6.68         |                        | Federal<br>State D            | \$1,100,000.00<br>\$300,000.00 | \$1,400,000.00         |
|   | Otsego           | 106th Ave, M-89 to Otsego City Limits                                    | Renovate, Crush, Shape, and Resurface HMA 4E1 - 440 #/syd (2 courses) | 1.43         | \$600,000.00           | Otsego (REN)<br>Otsego (PS)   | \$50,000.00<br>\$60,000.00     | \$710,000.00           |
|   | Martin           | 10th Street - 112th Avenue to Village of Martin                          | Mill, Chipseal, and Resurface, HMA 4E1 - 220 #/syd                    | 1.63         | \$360,000.00           |                               |                                | \$360,000.00           |
|   | Hopkins/Watson   | 124th Ave, 15th St east to existing asphalt                              | Reconstruct for Future Paving (1/2 per area)                          | 1.20         | \$125,000.00           | ACRC (MTF)<br>Watson (Recon)  | \$125,000.00<br>\$30,000.00    | \$280,000.00           |
|   | Hopkins/Watson   | 124th Ave, 15th St east to existing asphalt                              | Resurface, HMA 4E1 - 440 #/syd (2 courses)(1/2 per area)              | 1.20         | \$160,000.00           | Watson (PS)                   | \$25,000.00                    | \$185,000.00           |
|   | Martin           | 122nd Avenue - 4th Street to Patterson Road                              | Reconstruct for future paving   | 1.75         | \$1,112,500.00         | Martin (Recon)                | \$87,500.00                    | \$1,200,000.00         |
|   | Martin           | 122nd Avenue - 4th Street to Patterson Road                              | Pave, HMA 4E1 - 440 #/syd (2 courses)                                 | 1.75         | \$375,000.00           | Martin (PS)                   | \$70,000.00                    | \$445,000.00           |
|   |                  |  | <b>SUB-TOTAL AREA 6</b>   | <b>15.64</b> | <b>\$2,732,500.00</b>  |                               | <b>\$1,847,500.00</b>          | <b>\$4,580,000.00</b>  |
|   |                  |  | <b>GRAND TOTAL</b>  | <b>94.84</b> | <b>\$13,630,752.00</b> |                               | <b>\$8,056,750.00</b>          | <b>\$21,687,502.00</b> |

# ***DISCUSSION AND QUESTIONS***

## **Allegan County Road Commission**

*1308 Lincoln Road*

*Allegan MI 49010*

*269-673-2184*

## **Managing Director**

Craig Atwood, P.E.

*catwood@alleganroads.org*

## **Maintenance Superintendent**

Phil Kernodle

*pkernodle@alleganroads.org*