July 11, 2024
Mr. Tim Bryan, P.E.
County Engineer
Madison County Board of Supervisors
3137 S. Liberty Street
Canton, MS 39046
Re: MS Hwy 22 - Livingston Vernon Road/Stokes Road/Cedar Hill Road intersections
Dear Tim:
A Traffic Analysis was conducted to evaluate the potential for making improvements to the intersections along MS Hwy 22 at Cedar Hill Road, Livingston Vernon Road, and Stokes Road. Per our scope of services, I evaluated the 3 intersections along Hwy 22, conducted traffic counts, evaluated crash history, looked at some proposed area developments, and developed some geometric improvements and signing/striping alternatives. The location of the study corridor is shown in Figure 1 - Vicinity Map. Figures referenced in this letter are provided as attachments.

## Existing Conditions

Turning movement counts were collected on 5/9/24 for the four intersections including: 1) Livingston Vernon Rd/Stokes Rd, 2) Hwy 22/Livingston Vernon Rd, 3) Hwy 22/Stokes Rd, and 4) Hwy 22/Cedar Hill Rd. Twelve hour counts were conducted on Livingston Vernon Road at Stokes Road and at MS Hwy 22. Four hour counts were conducted on MS Hwy 22 at Stokes Road and Cedar Hill Road. The existing Year 2024 peak hour traffic volumes are shown in Figure 2.

MS Hwy 22 is primarily an east/west roadway connecting the cities of Canton and Flora. The posted speed limit is 55 mph through the study area, with curve warning signs with 45 mph advisory speeds. There are centerline and edge line raised pavement markers along MS Hwy 22 within the limits of the study area. The horizontal curves in Hwy 22 make the intersection angles for Cedar Hill Road $\pm 140$ degrees and Livingston Vernon Road $\pm 148$ degrees. This high angle intersection allows westbound traffic on MS Hwy 22 to basically continue north on Livingston Vernon Road without having to slow down to turn, thus increasing the speeds on Livingston Vernon Road between Hwy 22 and Stokes Road. The Stop line for southbound traffic on Livingston Vernon Road at MS Hwy 22 is basically at a 45 degree angle, instead of perpendicular to southbound traffic. The intersection angles are shown in Figure 3.


Above: Looking south at Hwy 22/ Livingston Vernon Road intersection.


Above: Looking north on Livingston Vernon Rd at MS Hwy 22 intersection. Stop line at 45 degree angle to traffic.
Below: Looking west on MS Hwy 22, just west of Livingston Vernon Road. Southern tree line limits sight distance.


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Above: Looking southwest on MS Hwy 22 at Livingston Vernon Road intersection. Damascus Church on left.
Stokes Road extends east of the intersection with MS Hwy 22 west of Livingston Vernon Road as a 2-lane roadway with $\pm 17 \mathrm{ft}$ of asphalt. A residential structure exists on the north side of Stokes Road between MS Hwy 22 and Livingston Vernon Road. The horizontal curves in MS Hwy 22 limit the sight distance at the Stokes Road intersection, due to the trees/vegetation along the south side of MS Hwy 22.


Above: Looking west on MS Hwy 22 from Stokes Rd/Anderson Driveway.


Above: Looking east on MS Hwy 22 from Stokes Road
Below: Looking south from Stokes Road across MS Hwy 22 at Anderson driveway.



Above: Looking west on Stokes Road from MS Hwy 22.
Below: Looking north on Stokes Road at residential structure.


The intersection of Stokes Road with Livingston Vernon Road has an R1-1 "Stop" sign on south side of Stokes Road-for eastbound traffic, where the asphalt flares out to 88 ft of width, so the "Stop" sign is not in the direct line of sight.


Above: Looking east on Stokes Road at Livingston Vernon Road/Stop sign on right.
Below: Looking east on Stokes Road from Livingston Vernon Road. Closed gas station on right.


Stokes Road narrows to $\pm 22 \mathrm{ft}$ of asphalt east of Livingston Vernon Road and provides access to rural residential and agricultural properties over the $\pm 10.3$ miles east to Virlilia Road.

Livingston Vernon Road extends north of MS Hwy 22, crossing Stokes Road where the abandoned gas station is located in the southeast quadrant and the residential dwelling in the northwest quadrant. The posted speed limit is 40 mph on Livingston Vernon Road. The cross section includes $\pm 20 \mathrm{ft}$ of asphalt with open ditches for drainage.


Above: Looking north on Livingston Vernon Road north of Stokes Road.
Below: Looking south on Livingston Vernon Road at Stokes Road/abandoned gas station.


The southeast quadrant of the Livingston Vernon Road/Stokes Road intersection has an abandoned gas station. Some recent discussions have included building a new gas station or Dollar General in this area.


Above: Looking southeast at abandoned gas station on Livingston Vernon Road.
Cedar Hill Road has a posted speed limit of 35 mph and has $\pm 21 \mathrm{ft}$ of asphalt with open ditches for drainage. Cedar Hill Road intersects MS Hwy 22 at a high angle and is almost a direct extension of Livingston Vernon Road across MS Hwy 22. Northbound traffic on Cedar Hill Road has to rotate their head +140 degrees to identify traffic approaching from MS Hwy 22 from the east.


Above: Looking north on Cedar Hill Road at MS Hwy 22/Damascus Baptist Church.


Above: Looking east on MS Hwy 22 from Cedar Hill Road.

Livingston Vernon Road provides a direct connection to US Hwy 49, which is the primary route for traffic to bypass Flora and head to destinations to the north. US Hwy 49 also provides the only crossing of the Big Black River in the 40 mile stretch between I-20 in Edwards and MS Hwy 16 north of Canton. MS Hwy 22 also provides access to US Hwy 49 through the town of Flora; however, drivers must navigate through a school zone and the downtown Flora business district.

## Crash Data

Historical crash data was obtained from MDOT for a 10 year crash history from 2014-2024. The crash data is summarized in Tables 1a-e. The most frequent crash type was with deer ( 12 crashes $/ 25 \%$ ), with Angle crashes and Rear end slow or stop crashes the second most frequent ( 10 crashes $/ 21 \%$ ). There were 31 people injured in the 48 total crashes, with Angle crashes having the most injuries (16 injured in 10 crashes) and Opposite Direction Sideswipe the second most injuries ( 8 injured in 5 crashes). The year with the most crashes was 2023 with 9 crashes. Fifty six percent of the crashes occurred in daylight conditions. Only $6 \%$ of the crashes involved alcohol.

## Traffic Impacts

The intersection delays were evaluated using the information provided in the Highway Capacity Manual to evaluate the levels-of-service (LOS) for the study intersections. The LOS analysis included the existing -Year 2024 traffic. The intersections identified in this analysis include the adjacent intersections of MS Hwy 22/Cedar Hill Road, MS Hwy 22/Livingston Vernon Road, and Livingston Vernon Rd/Stokes Rd. The capacity analysis sheets are provided as an attachment to this letter/report. The capacity analysis results are summarized in Table 2- Existing Traffic.

MS Hwy 22/Livingston Vernon Rd-Stokes Rd-Cedar Hill Rd
Crash History - 2014-2024
Table 1a


Table 1b

| Crash Type | Count of Injured Count |  |  |  |  |  |  | Injured Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |  |
| Angle | 4 | 2 | 1 | 1 | 1 | 1 |  | 16 |
| Deer | 12 |  |  |  |  |  |  | 0 |
| Fell from vehicle | 1 |  |  |  |  |  |  | 0 |
| Opposite Direction Sideswipe | 3 |  | 1 |  |  |  | 1 | 8 |
| Overturn |  |  | 1 |  |  |  |  | 2 |
| Rear end slow or stop | 8 | 2 |  |  |  |  |  | 2 |
| Rear end turn | 1 |  |  |  |  |  |  | 0 |
| Run off Road - Left |  | 2 |  |  |  |  |  | 2 |
| Run off Road - Right | 4 | 1 |  |  |  |  |  | 1 |
| Sideswipe | 1 |  |  |  |  |  |  | 0 |
| Total | 34 | 7 | 6 | 3 | 4 | 5 | 6 | 31 |


| Roadway | Year |  |  |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |  |
| CEDAR HILL RD | 1 |  |  |  |  |  |  |  |  |  |  | 1 |
| LIVINGSTON VERNON RD |  | 1 |  | 1 | 1 |  |  |  |  | 1 | 1 | 5 |
| MS 22 | 8 | 3 | 4 | 2 | 2 | 3 | 3 | 3 | 5 | 8 | 1 | 42 |
| Total | 8 | 5 | 4 | 3 | 3 | 3 | 3 | 3 | 5 | 9 | 2 | 48 |

Table 1d

|  | Light Condition |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dark - <br> lighted | Dark-not <br> lighted | Dawn/ <br> dusk | Daylight | Undefined | Total |
|  | 1 |  |  |  |  |  |
| LIVINGSTON VERNON RD |  | 1 |  | 4 |  | 1 |
| MS 22 | 2 | 14 | 2 | 23 | 1 | 4 |
| Total | 2 | 16 | 2 | 27 | 1 | 48 |
| Percent | $4 \%$ | $33 \%$ | $4 \%$ | $56 \%$ | $2 \%$ |  |

Table 1e
Table le

| Roadway | Alcohol Involved Crashes |  |  | Total |
| :--- | :---: | :---: | :---: | :---: |
|  | Undefined | No | Yes |  |
|  |  | 1 |  | 1 |
| LIVINGSTON VERNON RD |  | 4 | 1 | 5 |
| MS 22 | 2 | 38 | 2 | 42 |
| Total | 2 | 43 | 3 | 48 |
| Percent | $4 \%$ | $90 \%$ | $6 \%$ |  |

[^0]Table 2
Existing Traffic - Capacity Analysis Summary


Source: Riser Traffic and Engineering, 2024.
The existing traffic volumes are shown to be operating with minimal delays at the study intersections.

## Recommendations

Additional signage with flashing caution lights was discussed as an option to geometric changes. The W2-10 "Traffic Entering When Flashing" and W2-11 "Traffic Approaching When Flashing" have liability issues in the event that the flashing lights burn out or malfunction; thus not alerting drivers of potential conflicts. The modified language that could be used for flashing warning signs could be changed to "Watch for Approaching Traffic" and "Watch for Entering Traffic." Discussions on these signs identify that maintenance can be problematic.

Reconstructing/realigning the existing high angle intersections of MS Hwy 22/Cedar Hill Road and MS Hwy 22/ Livingston Vernon Rd is recommended, concurrent with trimming/pruning/removing trees and other vegetation along the right-of-way lines that are restricting sight distance at these intersections. The intersection of MS Hwy 22/Stokes Road is recommended to be modified to cul-de-sac Stokes Road and remove this intersection. The posted speed limit through these reverse curves on MS Hwy 22 is recommended to be reduced to 45 mph . The realignment concepts and pruning areas are shown graphically in Figure 5.

If you have additional questions or comments regarding this analysis or these concepts, please let me know.
Sincerely,
Miser Traffic and Engineering, LLC


Jonathan A. Riser, P.E., PTOE, PTP
President

## Attachments:

Figure 1 - Vicinity Map
Figure 2 - Year 2024 Existing Traffic
Figure 3 - Intersection Angles
Figure 4 - Alternate 1 - Signing Concept
Figure 5 - Alternate 2 - Reconstructing Intersections
Synchro Sheets
Plotted crash locations






| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 3.4 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | 1 |  | Mr |  |
| Traffic Vol, veh/h | 0 | 162 | 167 | 94 | 148 | 0 |
| Future Vol, veh/h | 0 | 162 | 167 | 94 | 148 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 176 | 182 | 102 | 161 | 0 |


| Major/Minor | Major1 | Major2 |  |  |  |  |  | Minor2 |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 284 | 0 | - | 0 | 409 | 233 |  |  |  |  |
| Stage 1 | - | - | - | - | 233 | - |  |  |  |  |
| Stage 2 | - | - | - | - | 176 | - |  |  |  |  |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |  |  |  |  |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |  |  |  |  |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |  |  |  |  |
| Follow-up Hdwy | 2.218 | - | - | -3.518 | 3.318 |  |  |  |  |  |
| Pot Cap-1 Maneuver | 1278 | - | - | - | 599 | 806 |  |  |  |  |
| $\quad$ Stage 1 | - | - | - | - | 806 | - |  |  |  |  |
| Stage 2 | - | - | - | - | 855 | - |  |  |  |  |
| Platoon blocked, \% |  | - | - | - |  |  |  |  |  |  |
| Mov Cap-1 Maneuver | 1278 | - | - | - | 599 | 806 |  |  |  |  |
| Mov Cap-2 Maneuver | - | - | - | - | 599 | - |  |  |  |  |
| Stage 1 | - | - | - | - | 806 | - |  |  |  |  |
| Stage 2 | - | - | - | - | 855 | - |  |  |  |  |


| Approach | EB | WB | SB |
| :--- | ---: | ---: | ---: |
| HCM Control Delay, s | 0 | 0 | 13.2 |
| HCM LOS |  |  | B |


| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR SBLn1 |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Capacity (veh/h) | 1278 | - | - | - | 599 |
| HCM Lane V/C Ratio | - | - | - | -0.269 |  |
| HCM Control Delay (s) | 0 | - | - | -13.2 |  |
| HCM Lane LOS | A | - | - | - | B |
| HCM 95th \%tile Q(veh) | 0 | - | - | - | 1.1 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.5 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\boldsymbol{\beta}$ |  |  | $\mathbf{4}$ | Mr |  |
| Traffic Vol, veh/h | 286 | 22 | 9 | 251 | 9 | 8 |
| Future Vol, veh/h | 286 | 22 | 9 | 251 | 9 | 8 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 311 | 24 | 10 | 273 | 10 | 9 |


| Major/Minor | Major1 |  | Major2 |  | Minor1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | 335 | 0 | 616 | 323 |
| Stage 1 | - | - | - | - | 323 | - |
| Stage 2 | - | - |  | - | 293 | - |
| Critical Hdwy | - | - | 4.12 |  | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - |  | - | 5.42 | - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1224 | - | 454 | 718 |
| Stage 1 | - | - | - | - | 734 | - |
| Stage 2 | - | - | - | - | 757 | - |
| Platoon blocked, \% | - | - |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1224 | - | 449 | 718 |
| Mov Cap-2 Maneuver | - | - | - | - | 449 | - |
| Stage 1 | - | - | - | - | 734 | - |
| Stage 2 | - | - | - | - | 749 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | NB |  |
| HCM Control Delay, s | 0 |  | 0.3 |  | 11.8 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBLn1 | EBT | EBR WBL WBT |  |  |
| Capacity (veh/h) |  | 545 | - | - | 1224 | - |
| HCM Lane V/C Ratio |  | 0.034 | - |  | 0.008 | - |
| HCM Control Delay (s) |  | 11.8 | - | - | 8 | 0 |
| HCM Lane LOS |  | B | - | - | A | A |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | 0 | - |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 2.2 |  |  |  |  |  |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations |  | -1 | F |  | Mr |  |
| Traffic Vol, veh/h | 0 | 167 | 233 | 134 | 101 | 0 |
| Future Vol, veh/h | 0 | 167 | 233 | 134 | 101 | 0 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | - | 0 | 0 | - | 0 | - |
| Grade, \% | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 0 | 182 | 253 | 146 | 110 | 0 |


| Major/Minor | Major1 |  |  |  | Minor2 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 399 | 0 | - | 0 | 508 | 326 |
| Stage 1 | - | - | - | - | 326 | - |
| Stage 2 | - | - | - | - | 182 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1160 | - |  | - | 525 | 715 |
| Stage 1 | - | - | - | - | 731 | - |
| Stage 2 | - | - | - | - | 849 | - |
| Platoon blocked, \% |  | - | - | - |  |  |
| Mov Cap-1 Maneuver | 1160 | - | - | - | 525 | 715 |
| Mov Cap-2 Maneuver | - | - | - | - | 525 | - |
| Stage 1 | - | - | - | - | 731 | - |
| Stage 2 | - | - | - | - | 849 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  |  |  | SB |  |
| HCM Control Delay, s | 0 |  | 0 |  | 13.7 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | EBL | EBT | T | WBR | SBLn1 |
| Capacity (veh/h) |  | 1160 | - | - | - | 525 |
| HCM Lane V/C Ratio |  | - | - | - | - | 0.209 |
| HCM Control Delay (s) |  | 0 | - | - | - | 13.7 |
| HCM Lane LOS |  | A | - | - | - | B |
| HCM 95th \%tile Q(veh) |  | 0 | - | - | - | 0.8 |


| Intersection |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Int Delay, s/veh | 0.3 |  |  |  |  |  |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | $\uparrow$ |  |  | $\uparrow$ | F |  |
| Traffic Vol, veh/h | 258 | 8 | 4 | 363 | 4 | 12 |
| Future Vol, veh/h | 258 | 8 | 4 | 363 | 4 | 12 |
| Conflicting Peds, \#/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, \# | 0 | - | - | 0 | 0 | - |
| Grade, \% | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, \% | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 280 | 9 | 4 | 395 | 4 | 13 |


| Major/Minor | Major1 |  | Major2 |  | Minor1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conflicting Flow All | 0 | 0 | 289 | 0 | 688 | 285 |
| Stage 1 | - | - | - | - | 285 | - |
| Stage 2 | - | - | - | - | 403 | - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | - |  | 2.218 | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | - | - | 1273 | - | 412 | 754 |
| Stage 1 | - | - | - | - | 763 | - |
| Stage 2 | - | - | - | - | 675 | - |
| Platoon blocked, \% | - | - |  | - |  |  |
| Mov Cap-1 Maneuver | - | - | 1273 | - | 410 | 754 |
| Mov Cap-2 Maneuver | - | - | - | - | 410 | - |
| Stage 1 | - | - | - | - | 763 | - |
| Stage 2 | - | - | - | - | 672 | - |
|  |  |  |  |  |  |  |
| Approach | EB |  | WB |  | NB |  |
| HCM Control Delay, s | 0 |  | 0.1 |  | 10.9 |  |
| HCM LOS |  |  |  |  | B |  |
|  |  |  |  |  |  |  |
| Minor Lane/Major Mvmt |  | NBLn1 | EBT | EBR | WBL WBT |  |
| Capacity (veh/h) |  | 623 | - | - | 1273 | - |
| HCM Lane V/C Ratio |  | 0.028 | - | - | 0.003 | - |
| HCM Control Delay (s) |  | 10.9 | - | - | 7.8 | 0 |
| HCM Lane LOS |  | B | - | - | A | A |
| HCM 95th \%tile Q(veh) |  | 0.1 | - | - | 0 | - |




[^0]:    Source: MDOT, Kiser Traffic and Engineering, LLC

