



# CITY OF JANESVILLE ROAD SAFETY PLAN

CRASH DATA ANALYSIS: 2016 - 2020 DATE SUBMITTED: FEBRUARY 18, 2022

#### **PREPARED FOR:**

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#### **PREPARED BY:**

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# 2021 City of Janesville Road Safety Plan Summary Checklist



PROVIDING TRAFFIC ENGINEERING SOLUTIONS

TADI was hired by the City of Janesville to prepare a Road Safety Plan focusing on 20 of the city's local intersections (including connecting highway intersections). TADI also reviewed crashes at three local roadway corridors and assessed pedestrian crash risk at ten pedestrian crossing locations. Below is a checklist of recommended safety improvements that include links to collision diagrams of the intersections, to safety statistics sheets for the corridors, as well as links to the pedestrian crossing locations. Also included is information on whether the improvements could be eligible for federal aid through the Highway Safety Improvement Program (HSIP), which can provide up to a 90 percent federal funding contribution for safety improvements or the Signals and ITS Standalone Program (SISP), which can provide up to a 90 percent state funding contribution for signal and ITS work.

#### Connecting Highway Intersections\*

\* Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications.

- □ STH 26 & Holiday Drive → HSIP Candidate, Traffic Study Recommended Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements, such as positively offset left-turn lanes and potential modifications to access at the frontage roads. A traffic study is recommended to identify specific geometric, access, and operational needs.
- □ STH 26 & Black Bridge Road → HSIP Candidate. Traffic Study Recommended Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements such as positively offset left-turn lanes (all directions). A traffic study is recommended to identify specific geometric, access, and operational needs.
- □ STH 26 & Mt. Zion Avenue → HSIP Candidate. Traffic Study Recommended Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements such as positively offset left-turn lanes (all directions). A traffic study is recommended to identify specific geometric, access, and operational needs.
- □ STH 26 & Lodge Drive → HSIP Candidate. Traffic Study Recommended Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements, such as positively offset left-turn lanes and potential modifications to access at the frontage roads. A traffic study is recommended to identify specific geometric, access, and operational needs.
- □ <u>STH 26 & Kennedy Road/Randolph Road</u> → <u>HSIP Candidate, Traffic Study Recommended</u> Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements such as positively offset left-turn lanes (NB/SB). A traffic study is recommended to identify specific geometric, access, and operational needs.
- □ USH 51 & Kellogg Avenue → SISP Candidate Intersection could benefit by adding signal heads over each lane and adding retro-reflective backplates to improve signal head visibility. To better accommodate pedestrians, high visibility crosswalks and adding pedestrian countdown timers could be considered. Access management is also recommended as there were several driveway-related crashes.
- □ STH 26 & Memorial Drive → Might be a HSIP Candidate, Traffic Study Recommended Intersection could benefit from safety improvements to improve signal head visibility (signals over each approach lane), pedestrian accommodations (consider leading pedestrian interval), and geometric modifications to improve capacity and/or left-turn operations. A traffic study is recommended to identify the geometric and operational needs of the intersection before determining HSIP feasibility.
- □ USH 14 & Kennedy Road → Might be a HSIP Candidate. Traffic Study Recommended Intersection could benefit by converting signals to monotubes with signal heads over each lane and adding retro-reflective backplates to improve signal head visibility. Monotubes may help reduce visual clutter of the signal poles, guidance signs and RR signs/crossing arms. Improving the offset of the left-turn lanes and/or implementing protected-only left-turn phasing (where warranted) would also help reduce crash risk. Consider options for adding pedestrian accommodations and servicing pedestrians in the area (the only sidewalk is in the NW corner). A traffic study is recommended to identify the geometric and operational needs of the intersection before determining HSIP feasibility.



- □ USH 51/Parker Drive & STH 26/Centerway Street SISP Candidate Intersection currently has 8" signal lenses. Signal visibility could be improved by upgrading to 12" lenses and adding signal heads over each approach lane. Retro-reflective backplates could be considered as well. To improve pedestrian accommodations, consider adding high-visibility crosswalks.
- □ <u>USH 51 & Main Street</u> → <u>SISP Candidate</u> Intersection could benefit by adding signal heads over each lane and adding retro-reflective backplates to improve signal head visibility. Consider adding high visibility crosswalks and pedestrian countdown timers.

#### Local Intersections

- □ <u>Milwaukee Street & Pontiac Drive</u> → <u>HSIP Candidate</u> Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane. Positively offsetting the EB/WB left-turn lanes is a geometric improvement that could also be considered.
- □ <u>Court Street & Main Street</u> → <u>HSIP Candidate. Traffic Study Recommended</u> Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane. To help mitigate nighttime crashes, consider improving lighting at this intersection. A traffic study is recommended to evaluate signal timing and operations at the intersection. It is also recommended that the study evaluate leading pedestrian intervals.
- □ Main Street & Racine Street → HSIP Candidate Intersection is a good candidate to upgrade 8" lenses to 12" lenses and adding signal heads over each approach lane. Adding retroreflective backplates to all signal heads would help to improve signal head visibility. Consider adding high-visibility crosswalks and pedestrian countdown timers.
- □ <u>Black Bridge Road & Randall Road</u> Improve stop sign visibility with dual stop signs on each approach with reflective tape on posts. Consider adding blinking lights to the stop signs to help mitigate nighttime crashes.
- □ <u>Milwaukee Street & Morningside Drive</u> To better accommodate pedestrians, consider adding high visibility crosswalks.
- □ Harmony Drive & Milwaukee Street → HSIP Candidate Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane with retro-reflective backplates on each signal head. This intersection currently has 8" signal lenses and should be upgraded to 12" lenses. To improve pedestrian accommodations, consider adding high-visibility crosswalks and pedestrian countdown timers.
- □ <u>Garfield Avenue & Milwaukee Street</u> Improve stop sign visibility NB/SB with dual stop signs on each approach with reflective tape on posts.
- □ <u>Harding Street & Memorial Drive</u> Consider adding high visibility crosswalks on all legs. Improve stop sign visibility with dual stop signs and reflective tape on posts.
- □ <u>Holmes Street & Randall Avenue</u> Consider improving the visibility of the stop signs with dual signs on all legs and reflective tape on each post.
- Pearl Street & Ravine Street Consider improving the visibility of the stop signs with dual signs on all legs and reflective tape on each post.



#### Corridors

- □ E. Memorial Avenue (S. Oakhill Ave to Milton Ave) → HSIP Candidate, Traffic Study Recommended -Improvements along this corridor could be eligible for HSIP funding based on the crash history. A traffic study is recommended to determine a lane configuration that will provide acceptable operations while improving safety. For instance, there are portions of this corridor that appear to be good candidates for a reconfiguration from 4lane undivided cross section to a three-lane cross section with a center left-turn lane. Upon completion of a traffic study, HSIP eligibility can then be more closely evaluated.
- □ <u>Mt. Zion Street (Milton Ave to Pontiac Dr)</u> → <u>HSIP Candidate, Traffic Study Recommended</u> Improvements along this corridor could be eligible for HSIP funding based on the crash history. A traffic study is recommended to determine a lane configuration that will provide acceptable operations while improving safety.
- □ N. Pontiac Drive (Holiday Dr to Milton Ave) → HSIP Candidate, Traffic Study Recommended Improvements along this corridor could be eligible for HSIP funding based on the crash history. A traffic study is recommended to determine a lane configuration that will provide acceptable operations while improving safety. For instance, there are portions of this corridor that appear to be good candidates for a reconfiguration from 4-lane undivided cross section to a three-lane cross section with a center left-turn lane. Upon completion of a traffic study, HSIP eligibility can then be more closely evaluated.

#### Pedestrian Risk Assessment

- Kellogg Avenue & S. Oakhill Avenue (Minor Stop Control, West Leg, Existing Unmarked Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs, adding school crossing signs due to the proximity of the school zone speed limit sign, and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated costeffectiveness, include an RRFB, median refuge, PHB, or adding curb extensions. According to the count taken at this intersection in September 2021, pedestrian volumes are not high enough to warrant an RRFB or a PHB, however volumes could be reevaluated if either of those improvements are pursue.
- Ruger Avenue & Ringold Avenue (Minor Stop Control, West Leg, Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, median refuge, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.
- W. Memorial Drive & N. Pine Street (Minor Stop Control, West Leg, Existing Standard Crosswalk with Flashing Beacon) – It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity.

If a 4-lane cross-section remains, it is recommended to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.

If Memorial Drive is converted to a 3-lane TWLTL, improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

S. Pontiac Drive & Plymouth Avenue (Minor Stop Control, South Leg, Existing High Visibility Crosswalk) – It is recommended that to add advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated cost-effectiveness, include adding curb extensions, an RRFB, or median refuge.



#### Pedestrian Risk Assessment Continued

E. Memorial Drive & Harding Street (Minor Stop Control, East Leg. Existing Standard Crosswalk) – It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs.

If a 4-lane cross-section remains, it is recommended to add double lane lines between the two eastbound approach lanes leading up to the crosswalk to deter lane changing near the crossing.

If Memorial Drive is converted to a 3-lane TWLTL, improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

- Ruger Avenue & Randall Avenue (All-Way Stop Control, South Leg. Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Consideration could be given to adding curb extensions to the crossing to shorten the crossing distance.
- Ice Age Trail & Beloit Avenue (Trail Crossing, Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing. Additional upstream warning signs could be considered. Other improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB or a PHB. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.
- <u>E. Milwaukee Street & Morningside Drive (Minor Stop Control, West Leg. Existing High Visibility Crosswalk</u>) It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.
- W. Milwaukee Street & Middle School Road (Minor Stop Control, West Leg. Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Consideration could be given to adding an RRFB, but volumes should be counted to verify whether volume thresholds are met. Also, it is recommended to count pedestrians to achieve a more accurate assessment of the pedestrian risk score. It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.
- □ <u>S. Oakhill Ave & Lapham Street (Minor Stop Control, South Leg, Existing High Visibility Crosswalk)</u> It is recommended to count pedestrians to achieve a more accurate assessment of the pedestrian risk score.

# City of Janesville Road Safety Plan

February 18th, 2022



PROVIDING TRAFFIC ENGINEERING SOLUTIONS

 To: Ahnaray Bizjak, P.E., Senior Engineer – City of Janesville
 From: John Campbell, P.E., RSP<sub>1</sub>, Amy Pomeroy, P.E., RSP<sub>1</sub> Christian R. Sternke, P.E., RSP<sub>1</sub>
 Subject: City of Janesville Road Safety Plan (Study Period: 2016 thru 2020)

#### Introduction

TADI was hired by the City of Janesville to prepare a Local Road Safety Plan. Local Road Safety Plans are a proven approach for reducing crash risk in communities. The study focused on the city roadway network, including connecting highways. TADI worked with the city to determine the locations to evaluate, which included 20 intersections, three corridors and ten pedestrian crossing locations. The analysis was conducted using electronic crash data retrieved through the WisTransPortal system provided by the Wisconsin Traffic Operations Laboratory. Five-years of crash data (2016–2020) were screened.

#### Objective

The study had the following objectives:

- 1. To identify safety issues that could be eligible for remediation through:
  - a. Highway Safety Improvement Program (HSIP), which can provide up to a 90 percent federal funding contribution for safety improvements,
  - b. Signals and ITS Standalone Program (SISP), which can provide up to a 90 percent state funding contribution for signal and ITS work.
- 2. To identify safety issues that the City of Janesville may want to address locally.
- 3. To provide a five-year summary (2016 2020) of the crash data at intersections and corridors within the City of Janesville to be used as a reference resource in addressing safety-related issues and questions.
- 4. To evaluate pedestrian crash risk at select locations in the community and prioritize potential improvement options.

#### **Google Maps**

Intersection crash data compiled for this report is available on Google Maps using the link below.

Google Login Link: <u>https://accounts.google.com/Login</u> Google Username: janesvillesafetyscreening@gmail.com Google Password: 2savelives!

Map Link: Click Here

#### **CRASH RANKING DESCRIPTIONS & DEFINITIONS**

The crash data was ranked using multiple techniques to assist in the identification of potential safety issues. Below is a description of the various rankings:

#### **Appendix A1 – Intersection Rankings**

#### A1.1 Intersection Database

An intersection database was assembled for 20 intersections in the City of Janesville. The database includes the following information about each intersection: intersection name, traffic control (traffic signal, all-way stop, minor street stop, other-stop, uncontrolled, modern roundabout), number of legs, entering AADT (if available), and GIS coordinates. Also provided in the database is the five-year crash frequency, intersection crash rate, and economic loss associated with crashes.

#### A1.2 Economic Loss Ranking

A common and helpful method for measuring the severity of crashes is to associate economic loss values with different injury severities. There are a multitude of ways to assign and define economic loss. For this study, a basic methodology that assigns \$684,000 for crashes resulting in a fatality (K-Level) and incapacitating injury (A-Level), and \$217,000 for non-incapacitating injury (B-Level) was used. These are referred to as KAB crashes. For possible injury (C-Level), a value of \$123,000 was assigned to each crash and for non-injury (i.e., property damage only or PDO) a value of \$10,800 was assigned.

Ranking the intersections by economic loss is an effective method for identifying intersections that not only could warrant safety improvements, but also may be eligible for funding through the HSIP program administered by the Wisconsin Department of Transportation (WisDOT). The HSIP program uses economic loss as a measure when determining a project's eligibility. While they may not match the exact figures WisDOT uses (economic appraisals are performed internally at WisDOT), we are comfortable making recommendations based on our past experiences using these values.

#### A1.3 Crash Frequency Ranking

A ranking of the intersections by the number of crashes that occurred in the five-year time span of 2016 thru 2020, categorized by crash severity.

#### A1.4 Crash Rate Ranking

Intersection crash rate, which is reported as the number of crashes per million entering vehicles, is a commonly used statistic. It measures the risk of a crash occurring per one million entering vehicles. It can be a helpful statistic for measuring crash risk and comparing to other locations.

#### A1.5 Night-Time Crash Ranking

The number of crashes occurring in low-light (dawn/dusk) or at night are considered night-time crashes in this analysis and are summarized in this ranking. A high number of night-time crashes can indicate a need to add or upgrade street lighting.

#### A1.6 Slippery Conditions Crash Ranking

The number of crashes occurring in slippery pavement conditions (wet, snow, or ice) are summarized in this ranking. A high number of slippery pavement crashes can indicate a need to improve the pavement friction or to consider more aggressive winter maintenance.

#### A1.7 Pedestrian Crash Ranking

The number of crashes and economic loss associated with crashes involving pedestrians at intersections are displayed in this ranking.

#### A1.8 Bicycle Crash Ranking

The number of crashes and economic loss associated with crashes involving bicyclists at intersections are displayed in this ranking.

#### A1.9 Top Crash Types

The overall top 50 crash types (e.g., rear-end crashes at the intersection of STH 26 & Holiday Drive) were ranked by economic loss and are provided in this ranking. This information is helpful in identifying the most frequent crash patterns at intersections in the City of Janesville.

#### A1.10 Top Crash Types (by direction)

The overall top 50 specific crash types by direction were ranked by economic loss and are provided in in this ranking. The crash patterns are directionally specified, such as "NB/EB Rt-angle". This analysis is helpful in identifying specific crash patterns that might be overlooked when looking at total intersection crash statistics.

#### **Appendix A2 - Intersection Collision Diagrams**

Intersection collision diagrams and crash statistics are provided in Appendix A2 and are also available via the Google Maps link. The visualization of the data in a collision diagram format is helpful in identifying potential safety issues. It should be noted that the collision diagrams are based on the directional information provided in the electronic crash data, but fatal and injury crashes have been validated with a review of each individual crash report form. For each of the 20 intersections, there is a collision diagram on the first page and details about each individual crash on the second page.

#### Appendix B1 - Corridor Safety Analysis

Safety analysis sheets that summarize the number and type of crashes along the corridors screened in the study are provided in Appendix B1.

- B1.1 E. Memorial Drive (S. Oakhill Avenue to Milton Avenue) 1.46 miles
- B1.2 Mt. Zion Avenue (Milton Avenue to Pontiac Drive) 1.02 miles
- B1.3 N. Pontiac Drive (Holiday Drive to Milton Avenue) 0.32 mile

The safety analysis was used to help identify safety issues and recommendations for the corridors. The analysis was also used to identify crash patterns and behavior characteristics (e.g., percent speedrelated) that the city may want to target.

#### PEDESTRIAN RISK ASSESSMENT

The pedestrian risk assessment was performed at ten locations selected by the city using a methodology TADI developed that utilizes risk factors to score each roadway crossing and roadway segment. Higher scores imply a greater risk to the pedestrian when crossing the roadway at a particular crossing or walking along the roadway on a particular segment. The resultant numerical values are based on research of hazards which have been shown to impact risk to pedestrians.

**Walking Along Criteria** 

Distance Walked Available Walking Path Traffic Volume Vehicle Speeds Parking Activity Pedestrian Activity

#### **Crossing Criteria**

Crossing Width Traffic Volume Vehicle Speeds Risk Adjustments Existing Safety Features Pedestrian Activity

The walking along exposure score for each segment is calculated by multiplying the factors of each of the six *Walking Along* criteria.

Walking Along Exposure Score =  $W_D * W_P * W_V * W_S * W_R * W_{PED}$ 

The crossing exposure score for each crossing is calculated by multiplying the factors of each of the six *Crossing* criteria.

Crossing Exposure Score =  $C_W * C_V * C_S * C_R * C_E * C_{PED}$ 

To estimate pedestrian activity for each segment and crossing, STRAVA Metro was used<sup>1</sup>. STRAVA is a crowd-sourced activity tracking app that is primarily used by walkers, runners, and cyclists to track their workouts. However, STRAVA shares more detailed data with public agencies through STRAVA Metro for use in improving pedestrian/cyclist safety in their communities. According to STRAVA and the Center for Disease Control (CDC), research suggests that STRAVA Metro pedestrian and cyclist data is representative of the general public as a whole and not just athletes utilizing the app for workout tracking<sup>2</sup>.

The STRAVA Metro data was used to identify activity on each segment and crossing and they were placed into five categories: very low, low, medium, high, very high. Segments and crossings with more pedestrian/cyclist activity have higher exposure scores since there would be a greater risk of a crash with more pedestrians/cyclists using the segment or crossing.

More detailed information on the development of the pedestrian risk scoring criteria and the factor definitions/numerical values can be found in Appendix C.

<sup>&</sup>lt;sup>1</sup> Strava Metro FAQ. Strava Metro. (2020, September 23). Retrieved October 1, 2021, from https://metro.strava.com/faq.

<sup>&</sup>lt;sup>2</sup> Davies, R. (2021, May 4). CDC finds Strava Metro data correlates strongly with census active commuting data. Medium. Retrieved October 1, 2021, from https://medium.com/strava-metro/cdc-finds-strava-metro-data-correlates-stronglywith-census-active-commuting-data-8ab1be0fe130.

There were ten locations identified by the City of Janesville to be analyzed for pedestrian risk assessment.

- C1.1 E. Memorial Drive & Harding Street
- C1.2 Ruger Avenue & Randall Avenue
- C1.3 E. Milwaukee Street & Morningside Drive
- C1.4 Kellogg Avenue & S. Oakhill Avenue
- C1.5 Ruger Avenue & Ringold Avenue
- C1.6 W. Memorial Drive & N. Pine Street
- C1.7 W. Milwaukee Street & Middle School Road
- C1.8 Ice Age Trail & Beloit Avenue
- C1.9 S. Pontiac Drive & Plymouth Avenue
- C1.10 S. Oakhill Ave & Lapham Street

The pedestrian risk assessment was used to help identify safety issues and recommendations at the identified crossings. The pedestrian risk score, as calculated as part of the assessment, was used to help prioritize improvement options by potential cost-effectiveness.

#### RECOMMENDATIONS

The recommendations of the study are meant to serve as a planning tool for the City of Janesville to prioritize safety improvements throughout the city.

#### Intersection Evaluation

Recommendations for intersections are organized into three tier categories. Because the HSIP program is both dynamic (crash modification factors are constantly evolving) and competitive (applications are received from all over the state), our recommendations are broadly categorized as a Tier 1 – a good chance treatments would be eligible for HSIP funding, a Tier 2 - maybe treatments would be eligible for HSIP funding, a Tier 3 - low chance treatments would be eligible for HSIP funding. Intersections with a "M" – are suggested for monitoring traffic volumes. A checkmark " $\sqrt{7}$ " indicates that a traffic study is recommended to evaluate the best solutions to the safety issues identified.



The categories represent our interpretation of the data available to estimate the likelihood of HSIP eligibility. HSIP eligibility is a function of the expected crash reduction benefits weighed against the anticipated construction costs. The calculations to determine eligibility are performed internally by WisDOT. While we do not have access to the calculations, our experience with similar projects and HSIP applications helps us to estimate the eligibility of potential projects. Improvements with the potential for assistance through the SISP are also noted.

Recommendations for individual intersections are shown on the tables spanning the subsequent pages. The intersections are labeled by number in order of economic loss and are sorted into the 3 groups shown below.

- A. State Intersections (there are no State intersections in this project)
- B. Connecting Highway Intersections
- C. Local Intersections

### LOCAL INTERSECTIONS

Road Safety Plan (crash data from 2016-2020)		sh data	CI TI CC	CHANGE TRAFFIC CONTROL							DESIGN IMPROVEMENTS								Traffic Study Recommended
			0		STOP	l I I I I			<b>B</b> 💈			Ţ,	٢	m	•		<b>a</b>	1	Tier I - Good chance treatments
Fron		Traffic Control	bout		Ľ	ffic teplacem	raffic Jpgrades	lective tes		ric	ction-	ighting ments	nt /Signing	sibility	sum	2		folumes study	2 Tier 2 - Maybe treatments would be eligible for HSIP funding
Loss Rank	Intersection Name	- Total Crashes - Economic Loss	Modern Roundal	Traffic	AII-Way Stop	Full Traf Signal R	Partial T Signal U	Retroref Backpla	Ped Tim Signal	Geomet	High-Fri Surface	Street Li Improve	Pavemel Marking	High-Vis Crosswa	Upgrade Curb Ra	Other	Monitor	Traffic V Traffic S Recomn	NOTES Tier 3 - Low chance treatments would be eligible for HSIP funding
<u>6</u>	Milwaukee Street & Pontiac Drive	Traffic Signal [13,600] - 27 - \$3.01 mil				1		1	1	2		1		1					Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane. Positively offsetting the EB/WB left-turn lanes is a geometric improvement that could also be considered.
<u>8</u>	Court Street & Main Street	Traffic Signal [12,950] - 28 - \$2.40 mil				1		1	1			2		1				~	Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane. 36% of crashes occurred in dark conditions with flashing red-yellow signals. Consider improving lighting at this intersection. NOTE: 6 NB vehicles ran the red light, 2 NB vehicles ran flashing red, 2 EB vehicles ran red and 4 SB vehicles ran flashing red A traffic study is recommended to evaluate signal timing and operations at the intersection. It is also recommended that the study evaluate leading pedestrian intervals.
<u>12</u>	Main Street & Racine Street	Traffic Signal [13,200] - 24 - \$1.87 mil				1		1	1					2					Intersection is a good candidate to upgrade 8" lenses to 12" lenses and adding signal heads over each approach lane. Adding retroreflective backplates to all signal heads would help to improve signal head visibility. Consider adding high-visibility crosswalks and pedestrian countdown timers.
<u>13</u>	Black Bridge Road & Randall Avenue	All-Way Stop [7,650] - 23 - \$1.82 mil											3						Improve stop sign visibility with dual stop signs on each approach with reflective tape on posts. 30% of the crashes occurred during dark conditions. Consider adding blinking lights to the stop signs. These improvements would not be a good candidate for a standalone HSIP project.
<u>15</u>	Milwaukee Street & Morningside Drive	Minor Street Stop [9,600] - 23 - \$1.67 mil												3					To better accommodate pedestrians, consider adding high visibility crosswalks. These improvements would not be a good candidate for a standalone HSIP project.
<u>16</u>	Harmony Drive & Milwaukee Street	Traffic Signal [10,100] - 30 - \$1.62 mil				1		1	1 1					1					Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane with retro-reflective backplates on each signal head. This intersection currently has 8" signal lenses and should be upgraded to 12" lenses. To improve pedestrian accommodations, consider adding high-visibility crosswalks and pedestrian countdown
<u>17</u>	Garfield Avenue & Milwaukee Street	Minor Street Stop [5,050] - 28 - \$1.50 mil											3						timers. Improve stop sign visibility NB/SB with dual stop signs on each approach with reflective tape on posts. These improvements would not be a good candidate for a standalone HSIP project.
<u>18</u>	Harding Street & Memorial Drive	Minor Street Stop [11,760] - 22 - \$1.40 mil											3	3					Consider adding high visibility crosswalks on all legs. Improve stop sign visibility with dual stop signs and reflective tape on posts.
<u>19</u>	Holmes Street & Randall Avenue	All-Way Stop [7,900] - 14 - \$1.05 mil											3						Consider improving the visibility of the stop signs with dual signs on all legs and reflective tape on each post. These improvements would not be a good candidate for a standalone HSIP project.
<u>20</u>	Pearl Street & Ravine Street	All-Way Stop [5,800] - 11 - \$0.76 mil											3						Consider improving the visibility of the stop signs with dual signs on all legs and reflective tape on each post. These improvements would not be a good candidate for a standalone HSIP project.

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## **CONNECTING HIGHWAY INTERSECTIONS**

Ro fro	ad Safety Plan (cı m 2016-2020)	CHAN TRAFF	GE IC ROL	TRA IMP	FFIC S	SIGN MEN	AL TS	DESIGN IMPROVEMENTS								Traffic Study Recommended	
-			0	STOP ALL WAY	ent 🔒		<b>X</b>	*	10		1	•	<b>•</b>		å		M Recommended A
Econ		Traffic Control	apont		rric Replacem Traffic	Upgrades flective	own Ders		tric ations	iction- iction-	ements ent a/Signing	sibility	e amps			Study	2 Tier 2 - Maybe treatments would be eligible for HSIP funding
Loss Rank	Intersection Name	- Total Crashes - Economic Loss	Modern Rounda Fraffic Signal	AII-Way Stop	- ull 1ra Signal 1 Partial <sup>-</sup>	Signal I Retrore	Countd	Signal Timing	Geomet	High-Fr Surface Street L	aveme Javeme Markinc	High-Vi Crossw	Jpgrad Curb Ra	SISP	Monito!	Fraffic 3	NOTES         Tier 3 - Low chance treatments would be eligible for HSIP funding
1	STH 26 & Holiday Drive	Traffic Signal [28,200] - 95 - \$4.94 mil			1	1		1	1	1	1	1	1			~	Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements, such as positively offset left-turn lanes and potential modifications to access at the frontage roads. A traffic study is recommended to identify specific geometric, access, and operational needs.  * Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in
<u> </u>																	HSIP applications. Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and
2	STH 26 & Black Bridge	Traffic Signal [30,250]			1	1		1	1	1	1	1	1			~	incorporating geometric improvements such as positively offset left-turn lanes (all directions). A traffic study is recommended to identify specific geometric, access, and operational needs.
<b>–</b>	Road	- 93 - \$3.87 mil						٨	٨								* Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications.
3	STH 26 & Mount Zion Avenue	Traffic Signal [25,050] - 52 - \$3.59 mil			1	1		1	1	1	1	1	1			*	Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements such as positively offset left-turn lanes (all directions). A traffic study is recommended to identify specific geometric, access, and operational needs. * Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications.
4	STH 26 & Lodge Drive	Traffic Signal [26,100] - 81 - \$3.25 mil			1	1		1	1	1	1	1	1			~	Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements, such as positively offset left-turn lanes and potential modifications to access at the frontage roads. A traffic study is recommended to identify specific geometric, access, and operational needs.
																	HSIP applications.
<u>5</u>	STH 26 & Kennedy Road/Randolph Road	Traffic Signal [29,650] - 69 - \$3.10 mil			1	1		1	1	1	1	1	1			~	Intersection is a candidate for a full signal replacement to provide signal heads over each approach lane and incorporating geometric improvements such as positively offset left-turn lanes (NB/SB). A traffic study is recommended to identify specific geometric, access, and operational needs. * Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in
																	HSIP applications.
2	USH 51 & Kellogg Avenue	Traffic Signal [17,200] - 41 - \$2.67 mil			3	3		3	3			3		1			<ul> <li>improve signal head visibility. To better accommodate pedestrians, high visibility crosswalks and adding pedestrian countdown timers could be considered. Access management is also recommended as there were several driveway-related crashes.</li> <li>* Note: Because connecting highway intersections require more than 50 percent of the work to be qualifying readwork in HSIP annications, this intersection is not a good candidate for HSIP funding.</li> </ul>
<u>9</u>	STH 26 & Memorial Drive	Traffic Signal [22,700] - 68 - \$2.27 mil			2	2		2	2			2				~	Intersection could benefit from safety improvements to improve signal head visibility (signals over each approach lane), pedestrian accommodations (consider leading pedestrian interval), and geometric modifications to improve capacity and/or left-turn operations. A traffic study is recommended to identify the geometric and operational needs of the intersection before determining HSIP feasibility.  * Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications.

CI

## **CONNECTING HIGHWAY INTERSECTIONS**

Road Safety Plan (crash data from 2016-2020)		CHANGE TRAFFIC CONTROL	TRAFFIC SIGNAL IMPROVEMENTS				L	DESIGN IMPROVEMENTS				]			Traffic Study Recommended		
		🕤 🚦 💇	0-0			<u> </u>	<b>*</b>			1	٢	m	<b></b>		Ģ	<b>1</b> 💽	M Recommended
	Traffic Control	ž I	c placemen	offic grades	ctive s	E S		suo	ion-	ents	igning	s ility	sd			lumes Idy	1     would be eligible for HSIP funding       2     Tier 2 - Maybe treatments would be eligible for HSIP funding
Econ Loss Intersection Rank Name	[Entering AADT] - Total Crashes - Economic Loss	Modern Roundabo Traffic Signal All-Way	Full Traffi Signal Re	Partial Tra Signal Up	Retrorefie Backplate	Ped Time	Timing	Geometric Modificati	High-Frict Surface Street Lin		Havement Marking/S	High-Visil Crosswall	Upgrade Curb Ram	SISP	Monitor	Monitor Traffic Vo Traffic Stu	NOTES 3 Tier 3 - Low chance treatments would be eligible for HSIP funding
10 USH 14 & Kennedy Road	Traffic Signal [26,950] - 46 - \$2.24 mil		2		2		2	2				2				~	Intersection could benefit by converting signals to monotubes with signal heads over each lane and adding retro- reflective backplates to improve signal head visibility. Monotubes may help reduce visual clutter of the signal poles, guidance signs and RR signs/crossing arms. Improving the offset of the left-turn lanes and/or implementing protected-only left-turn phasing (where warranted) would also help reduce crash risk. Consider options for adding pedestrian accommodations and servicing pedestrians in the area (the only sidewalk is in the NW corner). A traffic study is recommended to identify the geometric and operational needs of the intersection before determining HSIP feasibility. * Note: connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications.
11 USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal [18,300] - 27 - \$2.05 mil		3		3		3					3		1			Intersection currently has 8" signal lenses. Signal visibility could be improved by upgrading to 12" lenses and adding signal heads over each approach lane. Retro-reflective backplates could be considered as well. To improve pedestrian accommodations, consider adding high-visibility crosswalks. * Note: Because connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications, this intersection is not a good candidate for HSIP funding. However, the intersection appears to be a good candidate for upgrading old signal equipment through the SISP program.
14 USH 51 & Main Street	Traffic Signal [19,350] - 38 - \$1.74 mil		3		3		3					3		1			Intersection could benefit by adding signal heads over each lane and adding retro-reflective backplates to improve signal head visibility. Consider adding high visibility crosswalks and pedestrian countdown timers. * Note: Because connecting highway intersections require more than 50 percent of the work to be qualifying roadwork in HSIP applications, this intersection is not a good candidate for HSIP funding.

#### **Corridor Evaluation**

Crashes were analyzed on three highway corridors as specified by the city. A one-page summary of the crash statistics is provided for each of the corridors in Appendix B1 and has information about the crash trends observed. Target crash types the city may want to aim to reduce are listed for each corridor.

The corridors that were evaluated are listed on subsequent pages in order of overall economic loss. A corridor map and notable crash types to consider targeting for reduction are provided, in addition to a discussion of safety issues and potential solutions.

#### 1. E. Memorial Avenue (S. Oakhill Ave to Milton Ave) 1.46 miles



#### 229 Crashes, \$13,665,800 Economic Loss

#### Target crash types

- b. Left-turn angle
- c. Run-off-the-road
- d. Right angle
- e. Head-On
- f. Side-Swipe Same
- g. Pedestrian(1)/Bicycle(1)

#### Statistics

17 crashes, \$2,521,600 in economic loss 25 crashes, \$2,253,200 in economic loss 41 crashes, \$2,110,600 in economic loss 20 crashes, \$896,800 in economic loss 29 crashes, \$537,600 in economic loss 2 crashes, \$246,000 in economic loss

#### Discussion

Based on the crash history of rear-end, left-turn angle, run-off-the-road and right-angle crashes, improvements along this corridor is a good candidate for HSIP funding. A traffic study is recommended to determine a lane configuration that will provide acceptable operations while improving safety. For instance, there are portions of this corridor that appear to be good candidates for a reconfiguration from 4-lane undivided cross section to a three-lane cross section with a center left-turn lane (also called a road diet, 3-lane TWLTL, or safety conversion). Upon completion of a traffic study, HSIP eligibility can then be more closely evaluated.

#### 2. Mt. Zion Street (Milton Ave to Pontiac Dr) 1.





#### 132 Crashes, \$6,404,800 Economic Loss

#### Target crash types

- b. Rear-end
- c. Left-turn angle
- d. Pedestrian(1)/Bicycle(2)
- e. Run-off-the-road
- f. Side-Swipe Same

#### **Statistics**

49 crashes, \$1,839,200 in economic loss 10 crashes, \$1,099,600 in economic loss 3 crashes, \$557,000 in economic loss 12 crashes, \$448,000 in economic loss 17 crashes, \$389,800 in economic loss

#### Discussion

Based on the crash history of right-angle, rear-end, and left-turn angle crashes, improvements along this corridor may be a good candidate for HSIP funding. A traffic study is recommended to determine a lane configuration and intersection improvements that will provide acceptable operations while improving safety. Upon completion of a traffic study, HSIP eligibility can then be more closely evaluated.

#### 3. N. Pontiac Drive (Holiday Dr to Milton Ave) 0.32 mile



#### 106 Crashes, \$4,626,000 Economic Loss

#### Target crash types

#### **Statistics**

- b. Right angle
- c. Head-On
- d. Side-Swipe Same
- e. Left-turn angle
- f. Run-off-the-road

14 crashes, \$882,000 in economic loss 5 crashes, \$578,600 in economic loss 26 crashes, \$505,200 in economic loss 11 crashes, \$455,400 in economic loss 7 crashes, \$187,800 in economic loss

#### Discussion

Based on the crash history of rear-end and right-angle crashes, improvements along this corridor may be a good candidate for HSIP funding. A traffic study is recommended to determine a lane configuration that will provide acceptable operations while improving safety. For instance, there are portions of this corridor that appear to be good candidates for a reconfiguration from 4-lane undivided cross section to a three-lane cross section with a center left-turn lane (also called a road diet, 3-lane TWLTL, or safety conversion). Upon completion of a traffic study, HSIP eligibility can then be more closely evaluated.

#### Pedestrian Risk Assessment

Ten pedestrian crossings at locations specified by the city were analyzed and were given a pedestrian risk assessment score (hazard rating) based on the aforementioned criteria. The intersections were prioritized by recommendations by anticipated cost-effectiveness and shown in Table 1.

Pedestrian Crossing Location	Traffic Control	Existing Hazard Rating	Improvements in Order of Anticipated Cost Effectiveness (New Hazard Rating)
Kellogg Ave & Oakhill Ave (west leg, unmarked crosswalk)	Minor Stop	150	<ul> <li>[R] High Visibility Crosswalk (90)</li> <li>[C] RRFB (75)</li> <li>[C] Median Refuge (105)</li> <li>[C] Pedestrian Hybrid Beacon (38)</li> <li>[C] Curb Extensions (120)</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Add School Crossing Signs Since School Speed Limit Sign Nearby*</li> <li>[R] Update School Signs to Current Standards of Color and Retroreflectivity*</li> </ul>
Ruger Ave & Ringold St (west leg, standard crosswalk)	Minor Stop	90	<ul> <li>[R] High visibility crosswalk (54)</li> <li>[C] RRFB (45)</li> <li>[C] Median Refuge (63)</li> <li>[C] Pedestrian Hybrid Beacon (23)</li> <li>[C] Curb Extensions (68)</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Update School Signs to Current Standards of Color and Retroreflectivity*</li> </ul>
W Memorial Dr & Pine St (west leg, standard crosswalk/flashing beacon)	Minor Stop	50	<ul> <li><u>Recommendations for Both Options</u></li> <li>[R] High visibility crosswalk (30)</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Update School Signs to Current Standards of Color and Retroreflectivity*</li> <li><u>If 4-Lane Cross-Section Remains:</u></li> <li>[R] Double Lane Lines Leading Up to Crossing to Deter Lane Changing Approaching Crossing*</li> <li><u>If 3-Lane TWLTL Implemented:</u></li> <li>[C] RRFB (25)</li> <li>[C] PHB (13)</li> <li>[C] Curb Extensions (40)</li> </ul>

#### **Table 1: Pedestrian Crossing Recommendations Summary**

**[R] Recommended**; [C] Consider; \*Research is limited about treatment's effectiveness and, therefore, is not a part of the pedestrian risk score. Although not included in the scoring method, the treatment is low-cost and incorporate principles that are known to reduce pedestrian risk.

#### Table 1: Pedestrian Crossing Recommendations Summary (Continued)

Pedestrian Crossing Location	Traffic Control	Existing Hazard Rating	Improvements in Order of Anticipated Cost Effectiveness (New Hazard Rating)
Pontiac Dr & Plymouth Ave (south leg, high visibility crosswalk)	Minor Stop	24	<ul> <li>[C] Curb Extensions (18)</li> <li>[C] RRFB (20)</li> <li>[C] Median Refuge (24)</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Update School Signs to Current Standards of Color and Retroreflectivity*</li> </ul>
Memorial Dr & Harding St (east leg, standard crosswalk)	Minor Stop	495	Recommendations for Both Options         [R] High visibility crosswalk (297)         [R] Advanced Yield Lines with "Yield to Pedestrian" Signs*         If 4-Lane Cross-Section Remains:         [R] Double Lane Lines Leading Up to Crossing to Deter Lane Changing Approaching Crossing*         If 3-Lane TWLTL Implemented:         [C] RRFB (248)         [C] PHB (124)         [C] Curb Extensions (413)
Ruger Ave & Randall Ave (south leg, standard crosswalk)	All-Way Stop	263	[R] High visibility crosswalk (158) [C] Curb extensions (210)
Ice age Trail & Beloit Ave (standard crosswalk)	Stop On Trail	263	<ul> <li>[R] High visibility crosswalk (158)</li> <li>[C] RRFB (131)</li> <li>[C] Pedestrian Hybrid Beacon (66)</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Double Lane Lines Leading Up to Crossing to Deter Lane Changing Approaching Crossing*</li> <li>[C] Additional Upstream Warning Signs*</li> </ul>
E Milwaukee St & Morningside Dr (west leg, high visibility crosswalk)	Minor Stop	101	<ul> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Double Lane Lines Leading Up to Crossing to Deter Lane Changing Approaching Crossing*</li> </ul>

**[R] Recommended**; [C] Consider; \*Research is limited about treatment's effectiveness and, therefore, is not a part of the pedestrian risk score. Although not included in the scoring method, the treatment is low-cost and incorporate principles that are known to reduce pedestrian risk.

<b>Table 1: Pedestrian Crossing Recommendations</b>	Summary (Continued)
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Pedestrian Crossing Location	Traffic Control	Existing Hazard Rating	Improvements in Order of Anticipated Cost Effectiveness (New Hazard Rating)
W Milwaukee St & Middle School Rd (west leg, standard crosswalk)	Minor Stop	84	<ul> <li>[R] High visibility crosswalk (50)</li> <li>[C] RRFB (42)</li> <li>[R] Count Pedestrian Traffic to Achieve a More Accurate Assessment of the Pedestrian Risk Score</li> <li>[R] Advanced Yield Lines with "Yield to Pedestrian" Signs*</li> <li>[R] Double Lane Lines Leading Up to Crossing to Deter Lane Changing Approaching Crossing*</li> </ul>
S Oakhill Ave & Lapham St (south leg, high visibility crosswalk)	Minor Stop	5	[C] Count Pedestrian Traffic to Achieve a More Accurate Assessment of the Pedestrian Risk Score

Images of each recommended mitigation technique are shown below.



High-Visibility Crosswalk



Rapid Rectangular Flashing Beacon (RRFB)



Median Refuge Island



Pedestrian Hybrid Beacon (PHB)



Advanced Yield Lines



Yield to Pedestrians Sign



**Curb Extentions** 



School Related Signs Should Be Neon Yellow

#### Rectangular Rapid Flashing Beacon (RRFB) Information

Pedestrian actuated RRFBs are a type of warning beacon that are used at uncontrolled pedestrian crossings to assist pedestrians in crossing the roadway. WisDOT received statewide interim approval from FHWA to allow all jurisdictions in Wisconsin to install an RRFB (WisDOT IA-21 Memo). The WisDOT Traffic Engineering, Operations and Safety (TEOpS) Manual 4-5 provides eight criteria that should be met prior to installing an RRFB:

- 1. The location is an uncontrolled pedestrian crossing.
- 2. A minimum volume of 20 or more pedestrians during a single hour (any four consecutive 15minute periods) of an average day should be met. Young (<12), elderly (>85) and disable pedestrians count 2 times toward volume thresholds.
- 3. A minimum vehicular volume of 1,500 vehicles per day.
- 4. Maximum of four lanes crossed, unless there is a raised median, in which case it can be six lanes.
- 5. There exists a minimum of 300 feet between the subject crossing and the nearest controlled pedestrian crossing or intersection traffic control device.
- 6. Adequate stopping sight distance exists.
- 7. Flash rate of 75 flashes per minute.
- 8. Greater than 1,200 feet from another RRFB.

Additionally, TEOpS 4-5 states that RRFBs may not be appropriate at locations where there is a combination of both high traffic volumes and high pedestrian volumes.

#### Pedestrian Hybrid Beacon (PHB) Information

Per the WisDOT Manual on Uniform Traffic Control Devices (MUTCD) Chapter 4F, a PHB is a special type of hybrid beacon used to warn and control traffic at an unsignalized location to assist pedestrians in crossing a street or highway at a marked crosswalk. WisDOT MUTCD Figures 4F-1 & 4F-2 on the following page provide guidelines for the installation of PHBs on roadways with speeds lower than 35-mph and speeds more than 35-mph, respectively. If any one hour of a day has a major street volume total and corresponding pedestrian volume total that falls above the applicable line in the appropriate figure, a PHB may be considered for installation.

#### WisDOT MUTCD Chapter 4F Figures 4F-1 & 4F-2





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Recommendations for the ten pedestrian risk assessment crossings are noted below.

*Kellogg Avenue & S. Oakhill Avenue (Minor Stop Control, West Leg, Existing Unmarked Crosswalk)* It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs, adding school crossing signs due to the proximity of the school zone speed limit sign, and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, median refuge, PHB, or adding curb extensions. According to the count taken at this intersection in September 2021, pedestrian volumes are not high enough to warrant an RRFB or a PHB, however volumes could be reevaluated if either of those improvements are pursued.

Ruger Avenue & Ringold Avenue (Minor Stop Control, West Leg, Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, median refuge, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

# W. Memorial Drive & N. Pine Street (Minor Stop Control, West Leg, Existing Standard Crosswalk with Flashing Beacon)

It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity.

If a 4-lane cross-section remains, it is recommended to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.

If Memorial Drive is converted to a 3-lane TWLTL, improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

- *S. Pontiac Drive & Plymouth Avenue (Minor Stop Control, South Leg, Existing High Visibility Crosswalk)* It is recommended that to add advanced yield lines with "yield to pedestrian" signs and updating the existing school signs to the current standards of color and retroreflectivity. Other improvements that could be considered, in order of anticipated cost-effectiveness, include adding curb extensions, an RRFB, or median refuge.
- *E. Memorial Drive & Harding Street (Minor Stop Control, East Leg, Existing Standard Crosswalk)* It is recommended that a high-visibility crosswalk is added at this crossing. Additional recommended improvements include adding advanced yield lines with "yield to pedestrian" signs.

If a 4-lane cross-section remains, it is recommended to add double lane lines between the two eastbound approach lanes leading up to the crosswalk to deter lane changing near the crossing.

If Memorial Drive is converted to a 3-lane TWLTL, improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB, PHB, or adding curb extensions. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

Ruger Avenue & Randall Avenue (All-Way Stop Control, South Leg, Existing Standard Crosswalk) It is recommended that a high-visibility crosswalk is added at this crossing. Consideration could be given to adding curb extensions to the crossing to shorten the crossing distance.

#### Ice Age Trail & Beloit Avenue (Trail Crossing, Existing Standard Crosswalk)

It is recommended that a high-visibility crosswalk is added at this crossing. It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing. Additional upstream warning signs could be considered. Other improvements that could be considered, in order of anticipated cost-effectiveness, include an RRFB or a PHB. Pedestrian volumes should be counted if an RRFB or PHB are pursued to verify whether volume thresholds are met.

# *E. Milwaukee Street & Morningside Drive (Minor Stop Control, West Leg, Existing High Visibility Crosswalk)*

It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.

- *W. Milwaukee Street & Middle School Road (Minor Stop Control, West Leg, Existing Standard Crosswalk)* It is recommended that a high-visibility crosswalk is added at this crossing. Consideration could be given to adding an RRFB, but volumes should be counted to verify whether volume thresholds are met. Also, it is recommended to count pedestrians to achieve a more accurate assessment of the pedestrian risk score. It is recommended to add advanced yield lines with "yield to pedestrian" signs and to add double lane lines between the two approach lanes leading up to the crosswalk to deter lane changing near the crossing.
- *S. Oakhill Ave & Lapham Street (Minor Stop Control, South Leg, Existing High Visibility Crosswalk)* It is recommended to count pedestrians to achieve a more accurate assessment of the pedestrian risk score.

#### CONCLUSIONS

This Local Road Safety Plan identified opportunities to improve traffic safety throughout the City of Janesville. Twenty intersections were evaluated on the connecting highway and local networks. Three local corridors segments and ten pedestrian crossing locations were also evaluated. Electronic crash data for the years 2016-2020 were used to perform the analysis at these locations.

The study found there appear to be five connecting highway intersections and four local intersections that are good candidates for 90 percent Federal Funding through the HSIP program. Three connecting highway intersections were identified as having the potential to qualify for 90 percent State Funding through the SISP program. There were also potential safety improvements identified at various intersections and pedestrian crossings that could be considered using local funding.

The three corridors examined in the study each appear to be good candidates for reconfiguration to a 3-lane cross section, potentially with 90 percent funding through the HSIP program. Traffic studies are recommended along these corridors to validate a 3-lane cross section would provide adequate capacity. The studies could also further examine the HSIP opportunities for modifications recommended by the capacity analysis.

It is recommended to use the information in this memorandum as a planning tool for prioritizing local safety improvements and applying for HSIP/SISP funding.

#### **NEXT STEPS**

HSIP application are due on February 15<sup>th</sup>, 2022 for the next cycle of applications. If the City of Janesville is interested in pursuing any of the potential projects listed in this study, it is suggested that such applications are begun as soon as possible to ensure time to prepare the applications and proactively coordinate with WisDOT. For the locations and projects in the Tier 1 – "good" and Tier 2 – "maybe" categories that the City of Janesville has interest in potentially improving through the HSIP program, it is suggested that the City of Janesville meet with WisDOT to discuss potential safety solutions, strategies, and HSIP eligibility. If the February 15<sup>th</sup>, 2022 deadline is not able to be met, the next HSIP application deadline is six months later, on August 15<sup>th</sup>, 2022. The later application date would afford the City of Janesville to complete the recommended traffic studies and prioritize locations to include in the HSIP application.

If the City of Janesville has interest in improvements to the signal equipment at the intersection of USH 51/Parker Drive & STH 26/Centerway Street, the SISP municipal applications are due to regional contacts on April 8<sup>th</sup>, 2022 for the next cycle of applications. If the April deadline is unable to be met, the next SISP application is six months later and is due to regional contacts on September 9, 2022. An overview of the SISP program can be found in Appendix D.

# INTERSECTION RANKINGS

#### **Intersection Database**

City of Janesville (2016 thru 2020)

RANK <sup>1</sup>	INTERSECTION	TRAFFIC CONTROL	LEGS	ENTERING AADT	COORDINATES	CRASH FREQ.	CRASH RATE	ECONOMIC LOSS
1	STH 26 & Holiday Drive	Traffic Signal	4	28,200	<u>42.713819, -89.000824</u>	95	1.84	\$4,937,800
2	STH 26 & Black Bridge Road	Traffic Signal	4	30,250	<u>42.704386, -89.006708</u>	93	1.68	\$3,867,000
3	STH 26 & Mount Zion Avenue	Traffic Signal	4	25,050	<u>42.700868, -89.008946</u>	52	1.14	\$3,594,000
4	STH 26 & Lodge Drive	Traffic Signal	4	26,100	<u>42.716255, -88.999289</u>	81	1.70	\$3,252,200
5	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	4	29,650	<u>42.706589, -89.005348</u>	69	1.27	\$3,104,400
6	Milwaukee Street & Pontiac Drive	Traffic Signal	4	13,600	<u>42.695566, -88.987891</u>	27	1.09	\$3,005,600
7	USH 51 & Kellogg Avenue	Traffic Signal	4	17,200	<u>42.649761, -89.031155</u>	41	1.31	\$2,671,600
8	Court Street & Main Street	Traffic Signal	4	12,950	<u>42.681902, -89.021376</u>	28	1.18	\$2,397,800
9	STH 26 & Memorial Drive	Traffic Signal	4	22,700	<u>42.693606, -89.013558</u>	68	1.64	\$2,268,800
10	USH 14 & Kennedy Road	Traffic Signal	4	26,950	<u>42.722699, -89.006063</u>	46	0.93	\$2,237,400
11	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	4	18,300	<u>42.686372, -89.024755</u>	27	0.81	\$2,050,400
12	Main Street & Racine Street	Traffic Signal	4	13,200	<u>42.677275, -89.016218</u>	24	1.00	\$1,869,400
13	Black Bridge Road & Randall Avenue	All-Way Stop	4	7,650	42.704296, -89.003280	23	1.65	\$1,819,200
14	USH 51 & Main Street	Traffic Signal	4	19,350	42.685802, -89.025671	38	1.08	\$1,738,600
15	Milwaukee Street & Morningside Drive	Minor Street Stop	4	9,600	42.698284, -88.979226	23	1.31	\$1,670,600
16	Harmony Drive & Milwaukee Street	Traffic Signal	4	10,100	<u>42.692711, -88.997050</u>	30	1.63	\$1,615,800
17	Garfield Avenue & Milwaukee Street	Minor Street Stop	4	5,050	42.687968, -89.012391	28	3.04	\$1,500,200
18	Harding Street & Memorial Drive	Minor Street Stop	4	11,760	42.693884, -89.025649	22	1.02	\$1,399,000
19	Holmes Street & Randall Avenue	All-Way Stop	4	7,900	42.683358, -89.002897	14	0.97	\$1,048,800
20	Pearl Street & Ravine Street	All-Way Stop	4	5,800	42.683898, -89.035908	11	1.04	\$755,600
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47								
46								
49 50								
50								1
Average	es per Intersection					42	1.37	\$2,340,210
	-		-					
Totals						840		\$46,804,200

1) Ranked by total economic loss. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, and \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

#### **Economic Loss Ranking**

City of Janesville (2016 thru 2020)

								CRASH	
DANK1	NITED CENTION	TRAFFIC CONTROL	FATAL	A-	B-	C-	800	FREQUENCY	ECONOMIC LOSS
	INTERSECTION	Traffie Cirnel	FATAL	LEVEL			71	IUIAL	(ALL CRASHES)
1	STH 26 & Holiday Drive	Traffic Signal	0	1	2	10	/1	95	\$4,937,800
2	STH 20 & Black Bridge Road	Traffic Signal	0	2	3	8	80	93	\$3,867,000
5	STH 26 & Lodge Drive	Traffic Signal	0	1	5	10	55	5Z 01	\$3,594,000
4	STH 26 & Konnedy Bood (Bondolph Bood		0	0	5	12	52 52	60	\$3,252,200
5	Milwaykee Street & Dentice Drive		1	0	0	10	35	09	\$3,104,400
7		Traffic Signal	1	1	5	3	1/	27	\$3,005,600
/	Court Street & Main Street	Traffic Signal	0	0	2	2	27	41	\$2,671,600
0	STH 26.8 Memorial Drive		0	2	2	10	Z1 EC	20	\$2,597,600
9	JIEL 14 & Konnody Bood	Traffic Signal	0	0	2	10	20	00	\$2,208,800
10	USH E1/Darker Drive & STH 26/Conterway Street	Traffic Signal	0	1	2	10	10	40	\$2,257,400
11	Main Street & Basing Street	Traffic Signal	0	1	2	1	18	27	\$2,050,400
12	Nialli Street & Racille Street	All May Stop	0	1	4	- 1	10	24	\$1,809,400
15	LISH 51 & Main Street	Traffic Signal	0	1	1	0	22	23	\$1,819,200
14	Milwaykaa Street & Marningside Drive	Minor Street Stop	0	1	2	4	12	30	\$1,738,000
15	Harmony Drive & Milwaykoe Street	Traffic Signal	0	0	2	9	21	25	\$1,670,600
10	Carfield Avenue & Milwaukee Street	Minor Street Stop	0	0	2	7	10	30	\$1,615,800
10	Harding Street & Memorial Drive	Minor Street Stop	0	0	2	2	19	20	\$1,500,200
18	Harding Street & Memorial Drive	All May Stop	0	1	4	3	15	14	\$1,399,000
19	Road Street & Railual Avenue	All-Way Stop	0	1	2	2	11	14	\$1,048,800
20	Pearl Street & Ravine Street	All-way Stop	0	0	Z	Z	/	11	\$755,600
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Average	es per Intersection		0.05	0.60	3.30	6.85	31.20	42.00	\$2,340,210

Avg. by Traffic Control	FATAL	A-LEVEL	<b>B-LEVEL</b>	C-LEVEL	PDO	CRASHES	ECONOMIC LOSS
Traffic Signal	0.07	0.71	4.00	7.57	39.00	51.36	\$2,757,914
All-Way Stop	0.00	0.67	0.67	4.00	10.67	16.00	\$1,207,867
Modern Roundabout							
Minor Street Stop	0.00	0.00	2.67	6.33	15.33	24.33	\$1,523,267
Minor Street Yield							
Other							

66

137

624

840

\$46,804,200

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1) Ranked by total economic loss. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, and \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

Totals

#### **Crash Frequency Ranking**

City of Janesville (2016 thru 2020)

			FATAL	A 15)/51		0.157/51	200	CRASH FREQUENCY
	INTERSECTION	TRAFFIC CONTROL	FATAL	A-LEVEL 1	B-LEVEL	L-LEVEL	71	IUIAL
2	STH 26 & Roack Bridge Boad	Traffic Signal	0	1	2	01	/1	93
2	STH 26 & Lodge Drive	Traffic Signal	0	0	5	12	64	81
4	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	0	0	6	10	53	69
5	STH 26 & Memorial Drive	Traffic Signal	0	0	2	10	56	68
6	STH 26 & Mount Zion Avenue	Traffic Signal	0	1	6	10	35	52
7	USH 14 & Kennedy Road	Traffic Signal	0	0	3	10	33	46
8	USH 51 & Kellogg Avenue	Traffic Signal	0	0	7	7	27	41
9	USH 51 & Main Street	Traffic Signal	0	1	1	4	32	38
10	Harmony Drive & Milwaukee Street	Traffic Signal	0	0	3	6	21	30
11	Court Street & Main Street	Traffic Signal	0	2	2	3	21	28
12	Garfield Avenue & Milwaukee Street	Minor Street Stop	0	0	2	7	19	28
13	Milwaukee Street & Pontiac Drive	Traffic Signal	1	1	5	3	17	27
14	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	0	1	2	6	18	27
15	Main Street & Racine Street	Traffic Signal	0	1	4	1	18	24
16	Black Bridge Road & Randall Avenue	All-Way Stop	0	1	0	8	14	23
17	Milwaukee Street & Morningside Drive	Minor Street Stop	0	0	2	9	12	23
18	Harding Street & Memorial Drive	Minor Street Stop	0	0	4	3	15	22
19	Holmes Street & Randall Avenue	All-Way Stop	0	1	0	2	11	14
20	Pearl Street & Ravine Street	All-Way Stop	0	0	2	2	7	11
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Average	es per Intersection		0.05	0.60	3.30	6.85	31.20	42.00
Totals			1	12	66	137	624	840
		Avg. by Traffic Control	FATAL	A-LEVEL	B-LEVEL	C-LEVEL	PDO	CRASH FREOUENCY
		Traffic Signal	0.07	0.71	4.00	7.57	39.00	51.36
		All-Way Stop	0.00	0.67	0.67	4.00	10.67	16.00
		Modern Roundabout						

Minor Street Stop

Minor Street Yield

Other

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#### **Crash Rate Ranking**

City of Janesville (2016 thru 2020)

				CRASH	
RANK <sup>1</sup>	INTERSECTION	TRAFFIC CONTROL	ENTERING AADT	FREQUENCY	CRASH RATE
1	Garfield Avenue & Milwaukee Street	Minor Street Stop	5,050	28	3.04
2	STH 26 & Holiday Drive	Traffic Signal	28,200	95	1.84
3	STH 26 & Lodge Drive	Traffic Signal	26,100	81	1.70
4	STH 26 & Black Bridge Road	Traffic Signal	30,250	93	1.68
5	Black Bridge Road & Randall Avenue	All-Way Stop	7,650	23	1.65
6	STH 26 & Memorial Drive	Traffic Signal	22,700	68	1.64
7	Harmony Drive & Milwaukee Street	Traffic Signal	10,100	30	1.63
8	USH 51 & Kellogg Avenue	Traffic Signal	17,200	41	1.31
9	Milwaukee Street & Morningside Drive	Minor Street Stop	9,600	23	1.31
10	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	29,650	69	1.27
11	Court Street & Main Street	Traffic Signal	12,950	28	1.18
12	STH 26 & Mount Zion Avenue	Traffic Signal	25,050	52	1.14
13	Milwaukee Street & Pontiac Drive	Traffic Signal	13,600	27	1.09
14	USH 51 & Main Street	Traffic Signal	19,350	38	1.08
15	Pearl Street & Ravine Street	All-Way Stop	5,800	11	1.04
16	Harding Street & Memorial Drive	Minor Street Stop	11,760	22	1.02
17	Main Street & Racine Street	Traffic Signal	13,200	24	1.00
18	Holmes Street & Randall Avenue	All-Way Stop	7,900	14	0.97
19	USH 14 & Kennedy Road	Traffic Signal	26,950	46	0.93
20	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	18,300	27	0.81
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Totals			341,360	840	1.35

Avg. by Traffic Control	ENTERING AADT	CRASH FREQUENCY	CRASH RATE
Traffic Signal	20,971	51.36	1.34
All-Way Stop	7,117	16.00	1.23
Modern Roundabout			
Minor Street Stop	8,803	24.33	1.51
Minor Street Yield			
Other			

#### Night-Time Crash Ranking

City of Janesville (2016 thru 2020)

			NIGHT-TIME	TOTAL NUMBER	PERCENT	ECONOMIC LOSS	
RANK	INTERSECTION	TRAFFIC CONTROL	CRASHES	OF CRASHES	NIGHT-TIME	(NIGHT-TIME)	
1	Milwaukee Street & Pontiac Drive	Traffic Signal	6	27	22%	\$1,523,400	
2	STH 26 & Black Bridge Road	Traffic Signal	21	93	23%	\$1,218,400	
3	STH 26 & Holiday Drive	Traffic Signal	23	95	24%	\$1,109,600	
4	STH 26 & Mount Zion Avenue	Traffic Signal	11	52	21%	\$755,600	
5	STH 26 & Lodge Drive	Traffic Signal	21	81	26%	\$751,400	
6	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	1/	69	25%	\$726,400	
/	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	4	2/	15%	\$/16,400	
8	Main Street & Racine Street	Traffic Signal	1	24	4%	\$684,000	
9	Harding Street & Memorial Drive	Minor Street Stop	6	22	27%	\$589,400	
10	USH 14 & Kennedy Road	Traffic Signal	/	46	15%	\$506,200	
11	Harmony Drive & Milwaukee Street	Traffic Signal	6	30	20%	\$495,400	
12	STH 26 & Memorial Drive	Traffic Signal	13	68	19%	\$477,000	
13	USH 51 & Kellogg Avenue	Traffic Signal	14	41	34%	\$469,600	
14	Court Street & Main Street	Traffic Signal	10	28	36%	\$220,200	
15	Black Bridge Road & Randall Avenue	All-Way Stop	7	23	30%	\$187,800	
16	Garfield Avenue & Milwaukee Street	Minor Street Stop	5	28	18%	\$166,200	
17	Holmes Street & Randall Avenue	All-Way Stop	4	14	29%	\$155,400	
18	USH 51 & Main Street	Traffic Signal	6	38	16%	\$64,800	
19	Pearl Street & Ravine Street	All-Way Stop	2	11	18%	\$21,600	
20	Milwaukee Street & Morningside Drive	Minor Street Stop	2	23	9%	\$21,600	
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Average	es per intersection		9.30	42.00	22%	Ş543,020	
Totals			186	840	27%	\$10,860 400	
			100	0-0	££/8	910,000,400	

1) Crashes ranked by economic loss of night-time crashes. Night-time includes night, or during low-light (dawn/dusk) conditions. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

#### **Slippery Conditions Crash Ranking**

City of Janesville (2016 thru 2020)

			SLIPPERY			ECONOMIC LOSS
1			CONDITIONS	TOTAL NUMBER	PERCENT SLIPPERY	(SLIPPERY
RANK	INTERSECTION	TRAFFIC CONTROL	CRASHES	OF CRASHES	CONDITIONS	CONDITIONS)
1	STH 26 & Lodge Drive	Traffic Signal	26	81	32%	\$1,554,400
2	Main Street & Racine Street	Traffic Signal	7	24	29%	\$955,000
3	STH 26 & Memorial Drive	Traffic Signal	22	68	32%	\$780,400
4	USH 14 & Kennedy Road	Traffic Signal	14	46	30%	\$712,200
5	STH 26 & Mount Zion Avenue	Traffic Signal	16	52	31%	\$697,400
6	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	9	27	33%	\$640,000
7	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	22	69	32%	\$574,200
8	USH 51 & Main Street	Traffic Signal	13	38	34%	\$571,000
9	USH 51 & Kellogg Avenue	Traffic Signal	8	41	20%	\$517,000
10	STH 26 & Black Bridge Road	Traffic Signal	20	93	22%	\$440,400
11	Harmony Drive & Milwaukee Street	Traffic Signal	8	30	27%	\$423,000
12	Harding Street & Memorial Drive	Minor Street Stop	9	22	41%	\$415,600
13	Garfield Avenue & Milwaukee Street	Minor Street Stop	7	28	25%	\$412,200
14	STH 26 & Holiday Drive	Traffic Signal	13	95	14%	\$346,600
15	Court Street & Main Street	Traffic Signal	6	28	21%	\$289,200
16	Milwaukee Street & Morningside Drive	Minor Street Stop	6	23	26%	\$271,000
17	Milwaukee Street & Pontiac Drive	Traffic Signal	4	27	15%	\$155,400
18	Pearl Street & Ravine Street	All-Way Stop	3	11	27%	\$32,400
19	Holmes Street & Randall Avenue	All-Way Stop	3	14	21%	\$32,400
20	Black Bridge Road & Randall Avenue	All-Way Stop	3	23	13%	\$32,400
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Averag	es per Intersection		11	42	26%	\$492,610
Totals			219	840	26%	\$9,852,200
			==5	5.5	20,0	÷=,20=,200

1) Crashes ranked by economic loss of slippery pavement conditions crashes. Slippery conditions includes wet, snowy, or icy. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

#### **Pedestrian Crash Ranking**

City of Janesville (2016 thru 2020)

				Δ.	B.	C-		TOTAL	ECONOMIC LOSS
RANK <sup>1</sup>	INTERSECTION	TRAFFIC CONTROL	FATAL	LEVEL	LEVEL	LEVEL	PDO	CRASHES	(PED CRASHES)
1	STH 26 & Black Bridge Road	Traffic Signal	0	2	0	0	0	2	\$1,368,000
2	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	0	1	0	0	0	1	\$684,000
3	STH 26 & Mount Zion Avenue	Traffic Signal	0	0	2	1	0	3	\$557,000
4	USH 51 & Kellogg Avenue	Traffic Signal	0	0	1	0	1	2	\$227,800
5	Harmony Drive & Milwaukee Street	Traffic Signal	0	0	1	0	0	1	\$217,000
6	Main Street & Racine Street	Traffic Signal	0	0	1	0	0	1	\$217,000
7	Milwaukee Street & Morningside Drive	Minor Street Stop	0	0	1	0	0	1	\$217,000
8	USH 14 & Kennedy Road	Traffic Signal	0	0	1	0	0	1	\$217,000
9	Harding Street & Memorial Drive	Minor Street Stop	0	0	1	0	0	1	\$217,000
10	STH 26 & Memorial Drive	Traffic Signal	0	0	0	1	0	1	\$123,000
11	STH 26 & Lodge Drive	Traffic Signal	0	0	0	0	1	1	\$10,800
12	Holmes Street & Randall Avenue	All-Way Stop	0	0	0	0	0	0	\$0
13	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	0	0	0	0	0	0	\$0
14	Black Bridge Road & Randall Avenue	All-Way Stop	0	0	0	0	0	0	\$0
15	Milwaukee Street & Pontiac Drive	Traffic Signal	0	0	0	0	0	0	\$0
16	STH 26 & Holiday Drive	Traffic Signal	0	0	0	0	0	0	\$0
17	USH 51 & Main Street	Traffic Signal	0	0	0	0	0	0	\$0
18	Garfield Avenue & Milwaukee Street	Minor Street Stop	0	0	0	0	0	0	\$0
19	Pearl Street & Ravine Street	All-Way Stop	0	0	0	0	0	0	\$0
20	Court Street & Main Street	Traffic Signal	0	0	0	0	0	0	\$0
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Averages per Intersection 0.00 0.15 0.40 0.10 0.10 0.75 \$368,690.91								\$368,690.91	
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Totals			0	3	8	2	2	15	\$4,055,600.00

1) Ranked by economic loss of crashes involving pedestrians. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

#### **Bicycle Crash Ranking**

City of Janesville (2016 thru 2020)

AAMC         INTERSECTION         TAME CONTROL         FATA         I. A.         D.         C.         D.         D. <thd.< th="">         D.         D.         &lt;</thd.<>									TOTAL	
NUMBER TRUN         INDUST CONTION         INVERTIGN			TRAFFIC CONTROL	FATAL	A-	B-	C-		BICYCLE	ECONOMIC LOSS
1         matrixing street A whemotian Drive         Minor street Stop         0 <t< td=""><td>RANK</td><td>INTERSECTION</td><td>TRAFFIC CONTROL</td><td>FATAL</td><td>LEVEL</td><td>LEVEL</td><td>LEVEL</td><td>PDO</td><td>CRASHES</td><td>(BICYCLE CRASHES)</td></t<>	RANK	INTERSECTION	TRAFFIC CONTROL	FATAL	LEVEL	LEVEL	LEVEL	PDO	CRASHES	(BICYCLE CRASHES)
2       Sint 26 Holiday Drive       Traffic Signal       0	1	Harding Street & Memorial Drive	Winor Street Stop	0	0	0	0	0	0	\$0 ¢0
Son 3/Franker During Street         All Value         All Value         Street X         Street X         All Value         Street X         Street X <th< td=""><td>2</td><td>STH 26 &amp; Hollday Drive</td><td>Traffic Signal</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>\$0 \$0</td></th<>	2	STH 26 & Hollday Drive	Traffic Signal	0	0	0	0	0	0	\$0 \$0
****         Bark Brüge hunde Kannze Killweise Street         Minvaukee Street & Pontac Drive         Traffic Signal         0 <th1< td=""><td>5</td><td>Disch Bridge Boad &amp; Bandell Avenue</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>30 \$0</td></th1<>	5	Disch Bridge Boad & Bandell Avenue		0	0	0	0	0	0	30 \$0
Dot Hell Arefly and op in a street.         minitor Street 3, and the	4	Garfield Avenue & Milwaukee Street	Minor Stroot Stop	0	0	0	0	0	0	\$0 \$0
B         Ministrate Site S Printa, Une         Traffic Signal         O	5	Milwaukee Street & Dentias Drive	Traffic Signal	0	0	0	0	0	0	30 \$0
1         1 and it. Signal         0	7	STH 26 & Konnedy Read (Pandolph Read	Traffic Signal	0	0	0	0	0	0	0
Sour Las Asserties Xaching Street         Traffic Signal         O<	/ 0	USH 14.8 Konnedy Road	Traffic Signal	0	0	0	0	0	0	30 \$0
main sheets         name street	0	Main Street & Pacine Street	Traffic Signal	0	0	0	0	0	0	\$0 \$0
100       Odd D3 & Moningside Drive       Halms Systeet & Moningside Drive       Halms Systeet & Moningside Drive       In this Systeet & Moningside Drive <thin sy<="" td="" this=""><td>9 10</td><td>ISH E1 &amp; Main Street</td><td>Traffic Signal</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>30 \$0</td></thin>	9 10	ISH E1 & Main Street	Traffic Signal	0	0	0	0	0	0	30 \$0
12       Minute Street & Manufall Alline Street       Traffic Signal       0	10	Miluaukoo Stroot & Morningsido Drivo	Minor Stroot Stop	0	0	0	0	0	0	ې ډې
12       Inditing Drive & Minwabace Jaleet       Inditing Drive & Minwabace Jaleet       All-Way Stop       0	11	Harmony Drive & Milwaukoe Street	Traffic Signal	0	0	0	0	0	0	30 \$0
13       FNDIMES allest and and invention       Air way stupp       0 <th< td=""><td>12</td><td>Holmos Street &amp; Bandall Avenue</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>ος ¢0</td></th<>	12	Holmos Street & Bandall Avenue		0	0	0	0	0	0	ος ¢0
14       5 Proof Street: A Raine Street:       All Way Stop       0	13	STH 26 & Plack Bridge Boad	All-Way Stop	0	0	0	0	0	0	\$0 \$0
13       Predia Jude C. Marking Street       Animary Stup       0 </td <td>14</td> <td>Dearl Street &amp; Daving Street</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>ος ¢0</td>	14	Dearl Street & Daving Street		0	0	0	0	0	0	ος ¢0
10       311 E 0 & Modini Zolf Mendie       Traffic Signal       0<	15	STH 26 & Mount Zion Avenue	Traffic Signal	0	0	0	0	0	0	30 \$0
D       Sin & do Longe Drive       Traffic Signal       0	17	STH 26 & Lodge Drive		0	0	0	0	0	0	50 \$0
La       Osin 3 & Kente       Traffic Signal       0 <th< td=""><td>10</td><td></td><td>Traffic Signal</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>30 \$0</td></th<>	10		Traffic Signal	0	0	0	0	0	0	30 \$0
13       Count sheet or want street       Traffic Signal       0 <td>10</td> <td>Court Street &amp; Main Street</td> <td>Traffic Signal</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>\$0 \$0</td>	10	Court Street & Main Street	Traffic Signal	0	0	0	0	0	0	\$0 \$0
21       1 and 3 girst       0	19	STH 26.8 Memorial Drive	Traffic Signal	0	0	0	0	0	0	30 \$0
12       23       0	20		Traffic Signal	0	0	0	0	0	0	ŞŪ
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47       47         48       49         50       50         Averages per Intersection       0.00       0.00       0.00       0.00       0.00       0.00       \$0.00       \$0.00	46									
48       49       50       50       0.00       0.00       0.00       0.00       0.00       0.00       0.00       \$0.00       <	47									
49         50         0.00         0.00         0.00         0.00         0.00         0.00         0.00         \$0.00	48									
50         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         \$0.00           Averages per Intersection         0.00         0.00         0.00         0.00         0.00         \$0.00 <td< td=""><td>40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	40									
Averages per Intersection         0.00         0.00         0.00         0.00         0.00         0.00         \$0.0	50									
Averages per Intersection 0.00 0.00 0.00 0.00 0.00 0.00 \$0.0			1		1	1	1	1	1	1
	Average	es per Intersection		0.00	0.00	0.00	0.00	0.00	0.00	\$0.00
Totals 0 0 0 0 0 \$0.0	Totals			0	0	0	0	0	0	\$0.00

1) Ranked by economic loss of crashes involving bicyclists. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level.

#### **Top Crash Types**

City of Janesville (2016 thru 2020)

RANK <sup>1</sup>	CRASH TYPES	INTERSECTION	TRAFFIC CONTROL	NUMBER OF CRASHES	ECONOMIC LOSS
1	REAR-END	STH 26 & Holiday Drive	Traffic Signal	31	\$1,981,400
2	RT-ANGLE	Court Street & Main Street	Traffic Signal	17	\$1,493,600
3	RT-ANGLE	Garfield Avenue & Milwaukee Street	Minor Street Stop	26	\$1,478,600
4	PEDESTRIAN	STH 26 & Black Bridge Road	STH 26 & Black Bridge Road Traffic Signal		\$1,368,000
5	DRIVEWAY-RELATED	STH 26 & Holiday Drive	Traffic Signal	29	\$1,156,200
6	REAR-END	STH 26 & Mount Zion Avenue	Traffic Signal	27	\$1,152,800
7	RT-ANGLE	Milwaukee Street & Pontiac Drive	Traffic Signal	6	\$1,150,400
8	LT-ANGLE	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	13	\$1,113,800
9	REAR-END	STH 26 & Memorial Drive	Traffic Signal	31	\$1,102,000
10	DRIVEWAY-RELATED	Milwaukee Street & Pontiac Drive	Traffic Signal	10	\$1,099,600
11	LT-ANGLE	STH 26 & Mount Zion Avenue	Traffic Signal	7	\$973,200
12	LT-ANGLE	STH 26 & Lodge Drive	Traffic Signal	19	\$954,200
13	RT-ANGLE	USH 51 & Kellogg Avenue	Traffic Signal	8	\$929,400
14	REAR-END	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	23	\$903,400
15	LT-ANGLE	USH 14 & Kennedy Road	Traffic Signal	14	\$900,200
16	DRIVEWAY-RELATED	USH 51 & Kellogg Avenue	Traffic Signal	12	\$878,600
17	REAR-END	STH 26 & Black Bridge Road	Traffic Signal	38	\$859,200
18	REAR-END	STH 26 & Lodge Drive	Traffic Signal	19	\$842,000
19	REAR-END	Court Street & Main Street	Traffic Signal	3	\$817,800
20	LT-ANGLE	STH 26 & Black Bridge Road	Traffic Signal	18	\$813,000
21	MISC. OTHER	Black Bridge Road & Randall Avenue	All-Way Stop	2	\$807,000
22	RT-ANGLE	STH 26 & Holiday Drive	Traffic Signal	11	\$792,000
23	RT-ANGLE	Milwaukee Street & Morningside Drive	Minor Street Stop	7	\$730,600
24	LT-ANGLE	USH 51 & Main Street	Traffic Signal	5	\$727,200
25	RT-ANGLE	Black Bridge Road & Randall Avenue	All-Way Stop	15	\$723,000
26	PARKED-VEHICLE	Holmes Street & Randall Avenue	All-Way Stop	3	\$705,600
27	MISC. OTHER	STH 26 & Mount Zion Avenue	Traffic Signal	6	\$701.600
28	MISC. OTHER	Main Street & Racine Street	Traffic Signal	2	\$694,800
29	PEDESTRIAN	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	1	\$684.000
30	DRIVEWAY-RELATED	STH 26 & Lodge Drive	Traffic Signal	21	\$675,600
31	RT-ANGLE	Harmony Drive & Milwaukee Street	Traffic Signal	10	\$650,800
32	RT-ANGLE	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	9	\$621,800
33	LT-ANGLE	STH 26 & Holiday Drive	Traffic Signal	6	\$607,600
34	PEDESTRIAN	STH 26 & Mount Zion Avenue	Traffic Signal	3	\$557,000
35	RT-ANGLE	STH 26 & Lodge Drive	Traffic Signal	11	\$549,400
36	REAR-END	USH 51 & Kellogg Avenue	Traffic Signal	8	\$517.000
37	LT-ANGLE	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	7	\$506,200
38	RT-ANGLE	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	5	\$484.600
39	RT-ANGLE	Harding Street & Memorial Drive	Minor Street Stop	6	\$477,200
40	REAR-END	USH 14 & Kennedy Road	Traffic Signal	12	\$466.200
41	REAR-END	USH 51 & Main Street	Traffic Signal	13	\$458.800
42	LT-ANGLE	Main Street & Racine Street	Traffic Signal	3	\$444,800
43	RT-ANGLE	USH 51 & Main Street	Traffic Signal	9	\$433.800
44	MISC. OTHER	STH 26 & Black Bridge Road	Traffic Signal	6	\$401,400
45	RT-ANGLE	USH 14 & Kennedy Road	Traffic Signal	4	\$379,800
46	RT-ANGLE	Pearl Street & Ravine Street	All-Way Stop	4	\$361,600
47	REAR-END	Milwaukee Street & Pontiac Drive	Traffic Signal	4	\$361.600
48	PARKED-VEHICLE	Pearl Street & Ravine Street	All-Way Stop	3	\$350.800
49	SIDE-SWIPE-SAME	STH 26 & Holiday Drive	Traffic Signal	13	\$346.600
50	RT-ANGLE	Main Street & Racine Street	Traffic Signal	2	\$340,000
	-			_	, ,
Totals f	or Top 50 Crash Types			564	\$ 38,525,800

1) Ranked by economic loss per crash type. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level. Most crashes within 300 feet of intersection, per the accident report form.

#### **Top Crash Types by Direction**

City of Janesville (2016 thru 2020)

RANK <sup>1</sup>	CRASH PATTERN	INTERSECTION	TRAFFIC CONTROL	NUMBER OF CRASHES	ECONOMIC LOSS
1	NB_REAR	STH 26 & Holiday Drive	Traffic Signal	13	\$1,356,400
2	NB/EB_RT-ANGLE	Court Street & Main Street	Traffic Signal	12	\$1,327,400
3	WB/NB_RT-ANGLE	Garfield Avenue & Milwaukee Street	Minor Street Stop	22	\$1,229,200
4	WB_DRIVEWAY_FARSIDE	STH 26 & Holiday Drive	Traffic Signal	21	\$1,069,800
5	SB_REAR	STH 26 & Memorial Drive	Traffic Signal	18	\$849,400
6	SB_REAR	STH 26 & Lodge Drive	Traffic Signal	18	\$831,200
7	SB_LT-ANGLE	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	9	\$752,200
8	SB_PARKED_VEHICLE	Holmes Street & Randall Avenue	All-Way Stop	3	\$705,600
9	WB_LT-ANGLE	STH 26 & Mount Zion Avenue	Traffic Signal	3	\$705,600
10	SB_REAR	STH 26 & Mount Zion Avenue	Traffic Signal	16	\$697,400
11	WB_LT-ANGLE	USH 51 & Main Street	Traffic Signal	2	\$694,800
12	EB_DRIVEWAY_NEARSIDE	Milwaukee Street & Pontiac Drive	Traffic Signal	2	\$694,800
13	NB/EB_RT-ANGLE	Milwaukee Street & Pontiac Drive	Traffic Signal	2	\$694,800
14	MISCSOUTH-LEG	Main Street & Racine Street	Traffic Signal	1	\$684,000
15	MISC. WEST-LEG	Black Bridge Road & Randall Avenue	All-Way Stop	1	\$684,000
16	NB PED FARSIDE	STH 26 & Black Bridge Road	Traffic Signal	1	\$684,000
17	SB PED NEARSIDE	STH 26 & Black Bridge Road	Traffic Signal	1	\$684,000
18	EB REAR	Court Street & Main Street	Traffic Signal	1	\$684,000
19	NB REAR	STH 26 & Black Bridge Road	Traffic Signal	24	\$595,800
20	SB_REAR	STH 26 & Holiday Drive	Traffic Signal	15	\$592,600
21	WB LT-ANGLE	USH 14 & Kennedy Road	Traffic Signal	6	\$589,400
22		USH 51 & Kellogg Avenue	Traffic Signal	3	\$557.000
23	NB LT-ANGLE	STH 26 & Lodge Drive	Traffic Signal	10	\$538.600
24	WB DRIVEWAY FARSIDE	STH 26 & Lodge Drive	Traffic Signal	15	\$498.600
25	SB REAR	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	15	\$498.600
26	EB/SB RT-ANGLE	Harmony Drive & Milwaukee Street	Traffic Signal	5	\$484.600
27	NB REAR	STH 26 & Mount Zion Avenue	Traffic Signal	11	\$455,400
28	SB/WB_RT-ANGLE	Harding Street & Memorial Drive	Minor Street Stop	3	\$444.800
29	NB DRIVEWAY FARSIDE	USH 51 & Kellogg Avenue	Traffic Signal	3	\$444.800
30	WB DRIVEWAY NEARSIDE	USH 51 & Kellogg Avenue	Traffic Signal	8	\$423.000
31	SB_LT-ANGLE	STH 26 & Lodge Drive	Traffic Signal	8	\$404.800
32	EB/SB_RT-ANGLE	STH 26 & Holiday Drive	Traffic Signal	4	\$379.800
33	NB/EB_RT-ANGLE	STH 26 & Kennedy Road/Randolph Road	Traffic Signal	4	\$361,600
34	SB_LT-ANGLE	STH 26 & Holiday Drive	Traffic Signal	2	\$340.000
35	WB DRIVEWAY FARSIDE	Harmony Drive & Milwaukee Street	Traffic Signal	2	\$340.000
36	EB DRIVEWAY FARSIDE	Milwaukee Street & Pontiac Drive	Traffic Signal	2	\$340.000
37	NB/EB RT-ANGLE	USH 51 & Kellogg Avenue	Traffic Signal	2	\$340.000
38	NB_LT-ANGLE	USH 14 & Kennedy Road	Traffic Signal	7	\$300.000
39	SB/WB_RT-ANGLE	Black Bridge Road & Randall Avenue	All-Way Stop	7	\$300.000
40	NB LT-ANGLE	STH 26 & Black Bridge Road	Traffic Signal	8	\$292,600
41	WB REAR	USH 14 & Kennedy Road	Traffic Signal	4	\$267,600
42	SB_LT-ANGLE	STH 26 & Mount Zion Avenue	Traffic Signal	3	\$256,800
43	FB RFAR	USH 51 & Main Street	Traffic Signal	4	\$249,400
44	WB LT-ANGLE	STH 26 & Black Bridge Road	Traffic Signal	4	\$249,400
45	SB/WB_RT-ANGLE	STH 26 & Holiday Drive	Traffic Signal	2	\$246,000
46	SB/WB_RT-ANGLE	USH 14 & Kennedy Boad	Traffic Signal	2	\$246,000
47	WB/NB RT-ANGLE	USH 51/Parker Drive & STH 26/Centerway Street	Traffic Signal	2	\$246.000
48	EB/SB_RT-ANGLE	Milwaukee Street & Morningside Drive	Minor Street Stop	2	\$246,000
49	SB/WB_RT-ANGLE	Milwaukee Street & Morningside Drive	Minor Street Stop	3	\$238,600
50	EB LT-ANGLE	STH 26 & Black Bridge Road	Traffic Signal	3	\$238.600
					+===,500
Totals f	or Top 50 Crash Patterns			339	\$ 27.035.000

1) Ranked by economic loss per crash pattern by direction. Economic Loss calculated by using \$684k per Fatal K-Level, \$684k per Incapacitating Injury A-Level, \$217k per Non-Incapacitating Injury B-Level, \$123k per Possible Injury C-Level, and \$10.8k per Property Damage Only PD-Level. Most crashes within 300 feet of intersection, per the accident report form.
**APPENDIX A2** 

# INTERSECTION COLLISION DIAGRAMS

# **A2.1 Intersection Collision Diagram**



	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	2	0	2	1	2	0	1	0	0	2	1	0	0	0	0	0	MON	11
TUE	0	0	0	0	0	0	0	0	0	1	3	0	1	2	0	2	0	1	0	1	0	0	0	0	0	TUE	11
WED	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	1	3	0	1	0	0	0	0	WED	12
THU	0	0	0	0	0	0	0	0	0	0	0	1	3	1	3	2	1	3	0	2	0	0	0	0	0	THU	16
FRI	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	1	0	4	2	1	1	3	1	1	0	FRI	22
SAT	0	0	0	0	0	0	0	0	0	0	0	2	1	2	1	3	2	0	1	1	0	1	2	1	0	SAT	17
SUN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	0	0	0	0	0	0	SUN	6
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	0	0	0	0	0	3	3	8	7	9	14	10	4	10	10	6	2	4	3	2	0	тот.	95

TR	AFFIC ANALYSIS	DI & DESIGN, INC.	
	ATTIC ANALISIS	a DESIGN, INC.	

L	oc	ati	on:	S	TH 26 & Holid	ay Drive					From:		1/1/2016			TRAFFIC AN	IALYS	IS & DESIGN, INC.	
r	Лu	nic	ipality:	c	City of Janesvill	e					To:		12/31/2020			Di	urat	ion	
			ipancy.		Deele						10. A A D T.		20,200			-	urat	Neeve	
C	οι	inty	y:	F	Rock						AADT:		28,200			5		Years	
٦	ra	ffic	Control:	Т	Fraffic Signal						Area Type:		Urban			0		Months	
R	₽f						Road	Light	Alc. Drug Speed		Ref					Road Lig	ht /	Alc. Drug Speed	
#	E	abel Ba	Doc. #	Date Ci	rash Type T	ime Severity	/ Cond.	Cond.	Flag Flag Flag	Notes SR ran rod	# Label Doc. #	Date	Crash Type	Time S	everity	Cond. Cor	nd. I	Flag Flag Flag N	otes
2	E	B2 B2	CML19QKRB3	4/5/2018	RT-ANGLE RT-ANGLE	1 PM			Y	EB ran red	101								
3	E	B <sub>2</sub>	CML184FB64	8/6/2018	RT-ANGLE	11 AM C				EB ran red	103								
4	E	B <sub>2</sub>	CML1BC3B0B	7/9/2019	RT-ANGLE	1 PM C				SB ran red	104								
5	F	Be Be	CMI 179OKSR	7/12/2016	SIDE-SWIPE-SAME	10 AM					105								
7	E	Bs	CML18QXVTB	5/8/2018	SIDE-SWIPE-SAME	10 AM					100								
8	E	Bs	CML19T1TR3	12/9/2020	SIDE-SWIPE-SAME	5 PM		DARK		Passing	108								
9	E	B <sup>d</sup>	LW9FQNJ	2/4/2016	DRIVEWAY-RELATED	3 PM				SBR-WBT E service rd	109								
10	) E	Be Be	LW8ZNLG	2/11/2016	DRIVEWAY-RELATED	2 PM	WET	DARK	v	SBL-WBT E service rd	110								
12	. E	B <sup>d</sup>	LW9JPM9	11/21/2016	DRIVEWAY-RELATED	10 PM	WEI	DARK		SBT-EBT E service rd	111								
13	E	B <sup>d</sup>	LWC72PW	12/22/2016	DRIVEWAY-RELATED	3 PM	WET			SBR-NBT E service rd	113								
14	E	B <sup>d</sup>	CML18F2KTH	6/30/2017	DRIVEWAY-RELATED	11 AM				SBT-EBT E service rd	114								
19	) E 1 F	B <sup>4</sup>	CML18JRP5P CML0XVN040	1/25/2017	DRIVEWAY-RELATED	2 PM 7 PM		DAY		SBL-WBT E service rd	115								
17	, 1	- 1 <sup>w</sup>	CML184FB2K	6/20/2017	MISC. OTHER	7 PM		DAT		SBR improper turn	117								
18	; V	VB1	LW93CN2	6/10/2016	LT-ANGLE	9 PM		DARK		EB ran red	118								
19	v	VB1	CML18368XF	10/21/2017	LT-ANGLE	7 PM C		DARK		WB FTY	119								
20	) V	VB1 VB2	LW9JPLS	9/28/2019	RT-ANGLE	5 PM C	WEI	DARK		NB ran red	120								
22	v	VB <sub>2</sub>	CML19KMM3W	7/10/2019	RT-ANGLE	6 PM					122								
23	, v	VB2	CML1BQ6N0C	10/26/2020	RT-ANGLE	12 PM				NBT-WBR	123								
24	i v	VBs	LW95L84	1/31/2016	REAR-END	1 PM	WET				124								
25	, v	VBs VBs	CML179QKS3	4/2/2016	REAR-END REAR-END	5 PM				Sun glare	125								
27	, v	VB <sub>6</sub>	LW90DXQ	11/17/2016	SIDE-SWIPE-SAME	7 PM		DARK			127								
28	v	VB <sup>d</sup>	LW8ZNLP	2/22/2016	DRIVEWAY-RELATED	7 PM	-	DARK		NBT-WBT W service rd	128								
29	v	VBd	LW8ZNLT	3/4/2016	DRIVEWAY-RELATED	2 PM				NBT-WBT W service rd	129								
30	, V	VB <sup>d</sup>	LW9KF17	5/13/2016	DRIVEWAY-RELATED	5 PM B	WET		Y	NBT-WBT W service rd	130								
32	v	VB <sup>d</sup>	LW90DZD	12/20/2016	DRIVEWAY-RELATED	12 PM	WET			SBT-EBT W service rd	132								
33	. v	VB <sup>d</sup>	LW9VBG8	12/28/2016	DRIVEWAY-RELATED	6 PM		DARK		NBT-WBT W service rd	133								
34	v	VBd	CML18QXVPC	6/28/2017	DRIVEWAY-RELATED	2 PM				SBT-EBT W service rd	134								
35	, v	VB"	CML18LUQ8S	10/6/2017	DRIVEWAY-RELATED	11 AM C		DARK		SBI-EBI W service rd	135								
37	v	VB <sup>d</sup>	CML19N3P44	4/29/2018	DRIVEWAY-RELATED	3 PM		brutte		NBT-WBT W service rd	137								
38	: V	VB <sup>d</sup>	CML189CGLT	6/23/2018	DRIVEWAY-RELATED	1 PM B				NBT-EBT W service rd	138								
39	• V	VBd	CML1B000K0	8/19/2018	DRIVEWAY-RELATED	4 PM				NBT-WBT W service rd	139								
40	) V	VB" VB <sup>d</sup>	CML184FB7D CMI 184FB7K	10/17/2018	DRIVEWAY-RELATED	1 PM 12 PM				NBT-WBT W service rd	140								
42	v	VB <sup>d</sup>	CML18JRP9V	1/6/2019	DRIVEWAY-RELATED	6 PM C		DARK		WB at W service rd	142								
43	, v	VB <sup>d</sup>	CML19KMM23	2/18/2019	DRIVEWAY-RELATED	3 PM	WET			NBT-EBT W service rd	143								
44	i v	VBd	CML19KMM3M	6/13/2019	DRIVEWAY-RELATED	4 PM				SBT-EBT W service rd	144								
45	; v ; v	VB" VB <sup>d</sup>	CML19KMM45 CML1BEKD71	7/31/2019	DRIVEWAY-RELATED	2 PM B 12 PM				WBL at W service rd	145								
47	v	VB <sup>d</sup>	CML1BGSFCZ	2/14/2020	DRIVEWAY-RELATED	5 PM				SBT-EBT W service rd	140								
48	, v	VB <sup>d</sup>	CML1B9V90F	7/15/2020	DRIVEWAY-RELATED	2 PM	WET			NBT-WBT W service rd	148								
49	N	4 <sup>6</sup>	CML18F2KWX	12/9/2017	MISC. OTHER	2 PM				EBL-WBT	149								
51	N	IB1	CML1BGSFC4 CML1BC3B2N	11/9/2019	MISC. OTHER	3 PM C			Y	NBL on Yellow	150								
52	. N	IB <sub>2</sub>	CML19N3P53	9/4/2018	RT-ANGLE	5 PM				NB ran red	152								
53	N	IB <sub>2</sub>	CML19KMM6G	6/4/2020	RT-ANGLE	5 PM				EB ran red	153								
54		IBs	LW8ZNNR	6/30/2016	REAR-END	5 PM C				Stopped in traffic	154								
56	i N	IBs	CML17GNQ89	7/7/2017	REAR-END	6 PM				NDININDI	155								
57	N	IB <sub>5</sub>	CML18L0Q9L	12/9/2017	REAR-END	11 AM				Stopped in traffic	157								
58	t N	IB <sub>5</sub>	CML19KMLX6	6/12/2018	REAR-END	3 PM					158								
59		IBs IBs	CML19KMM17 CML184FB8I	12/14/2018	REAR-END REAR-END	3 PM A				Stopped in traffic	159								
61	N	IB <sub>5</sub>	CML18QXVW5	3/2/2019	REAR-END	11 AM					161								
62	N	Bs	CML19KMM4R	9/13/2019	REAR-END	12 PM B				Slowing in traffic	162								
63	N	IB <sub>5</sub>	CML18C3B44	3/3/2020	REAR-END	9 AM	WET		Y		163								
64	, N	IBs	CML19QKRF7	8/20/2020 8/29/2020	REAR-END	2 PM 12 PM					165								
66	N	Bs	CML1BZLVND	11/16/2020	REAR-END	6 PM		DAY			166								
67	N	Bs	CML19RSSFT	4/15/2018	SIDE-SWIPE-SAME	6 PM	SNOW				167								
68	N	iBs As	CML18JRPCQ CML19KMM40	8/23/2019	SIDE-SWIPE-SAME	11 PM B		DARK	Y	Motorcycle	168								
70	) 5	т В1	CML192T5K9	4/19/2017	LT-ANGLE	2 PM B				SBL on yellow-red	170								
71	S	B1	CML19RSSN8	7/16/2020	LT-ANGLE	11 AM C				SBL on yellow-red	171								
72	s s	B2	LW9JPK9	4/4/2016	RT-ANGLE	1 PM C				SB ran red	172								
7	5	62 B5	CWILIBFKDBJ LW9BRRV	9/3/2020 1/2/2016	REAR-END	7 PM C 11 PM B		DARK		WB ran red Stopped in traffic	1/3 174								
75	S	Bs	LW95L7W	1/2/2016	REAR-END	4 PM				. repper in trainit	175								
76	S	Bs	LW92MDT	3/4/2016	REAR-END	2 PM					176								
71	S	B <sub>5</sub>	LW9VBF2	9/5/2016	REAR-END	11 AM				Foot slip off brake	177								
78	, S	Bs	CML08HJN03	10/12/2016	REAR-END REAR-END	3 PM		DARK		wovea on green	1/8								
80	) S	- B <sub>5</sub>	CML185NC71	1/5/2018	REAR-END	8 PM		DARK			180								
81	S	Bs	CML19N3P5P	1/12/2019	REAR-END	4 PM	SNOW		Y	Slid on ice	181								
82	s s	Bs D	CML19T1TML	2/22/2019	REAR-END	9 PM	WET	DARK		Maural an array	182								
8	, s , s	Bs	CML19T1TP0	9/20/2019	REAR-END	10 PM	VVE I	DARK		Stop for NBL	184								
8	, s	Bs	CML11GFB29	12/6/2019	REAR-END	6 PM		DARK	Y		185								
86	5	Bs	CML19KMM5R	12/7/2019	REAR-END	1 PM					186								
87	s s	Bs Be	CML18JRPFQ CML18XCTIV	2/28/2020	REAR-END	9 PM		DARK		Stonned in traffi-	187								
88	, >   S	B <sub>6</sub>	CML1855WRQ	2/17/2017	SIDE-SWIPE-SAME	11 AM				Stopped In traffic	100								
90	) S	Bs	CML192T5JZ	2/20/2017	SIDE-SWIPE-SAME	9 AM					190								
91	S	Bs	CML08HJN06	12/22/2017	SIDE-SWIPE-SAME	5 PM		DARK			191								
92	S S	Be Be	CML182G27N	7/27/2019	SIDE-SWIPE-SAME	10 PM		DARK			192								
93	, s	Be	CML11GFB26	6/14/2019 11/16/2019	SIDE-SWIPE-SAME	2 P 1V1 9 P M		DARK			195								
95	i N	1 <sub>×</sub>	CML18368VR	1/11/2017	MISC. OTHER	6 PM	ICE	DARK	Y	EB signal	195								
96											196								
97											197								
99											199								
10	0										200								

# **A2.2 Intersection Collision Diagram**



,			-																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	1	2	1	0	1	4	0	2	0	5	1	0	0	0	0	0	0	MON	17
TUE	0	0	0	0	0	0	0	0	2	1	0	0	3	1	0	0	1	3	1	0	1	1	0	0	0	TUE	14
WED	0	1	0	0	0	0	0	0	1	0	0	3	1	2	2	1	4	1	2	0	1	0	1	0	0	WED	20
THU	0	0	0	0	0	0	0	0	0	1	1	0	1	0	5	0	4	0	0	0	1	0	0	1	0	тни	14
FRI	0	0	0	0	0	0	1	1	0	1	1	2	0	2	0	0	0	2	1	0	2	2	0	0	0	FRI	15
SAT	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	1	0	0	0	0	2	2	0	SAT	10
SUN	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	SUN	3
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	1	0	0	0	0	1	1	4	6	3	7	9	9	7	3	10	12	5	0	6	3	3	3	0	тот.	93

Corresponds to Collision Diagram

Location:	STH 26 & Black Bridge Road
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal



1/1/2016

12/31/2020

From:

To:

		30,250 Urban				5 0	Ye Mo	ars onth	ıs	
Ref # Label Doc. #	Date	Crash Type	Time	Severity	Road Cond.	Light Cond.	Alc. Flag	Drug Flag	Speed Flag	Notes
101	-		 							
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178 179 179 180 181 181 182 183 184 185 185 186 187 188 189 190 191 191 192 193 192 194 195 195 195 196										
178 179 179 180 181 182 182 183 184 185 186 186 187 189 190 191 192 193 193 194 195 195 197										
178 179 179 180 181 182 183 184 185 185 186 189 190 191 192 193 193 195 197 198										

Ref						Road	Light	Alc.	Drug	Speed	
# 1	EB1	DOC. # CML101713H	2/4/2017	LT-ANGLE	11 PM B	Cond.	DARK	Flag	Flag	Flag	EB FTY
2	EB1	CML179QKW6	11/21/2017	LT-ANGLE	5 PM		DARK				
3	EB1	CML19KMM46	8/1/2019	LT-ANGLE	9 AM	MET					CD con cod
5	EB2	CML19LVN4G	3/5/2019	RT-ANGLE RT-ANGLE	8 PM	VVEI	DARK				SBT-EBR
6	EBs	CML18368XH	10/25/2017	REAR-END	11 AM						Foot slip off brake
7	EBs	CML18368XG	10/25/2017	REAR-END	8 AM		DAY				EBL backing on red
8	EBs EBs	CML19426TD	5/17/2018	REAR-END REAR-END	1 PM 8 PM		DAY				EB backing on red
10	EBs	CML184FB7J	10/24/2018	REAR-END	6 PM C		BAT	Y			Backing
11	EB <sub>5</sub>	CML18JRP9T	12/31/2018	REAR-END	1 PM	WET					
12	EBs FR-	CML18F2LF2	3/19/2019	REAR-END	8 AM	WET	DARK	v			
14	EB <sub>9</sub>	CML1BFKD87	12/18/2019	FIXED-OBJECT	5 PM		DARK				
15	EB10	LW9PW2W	10/4/2016	DRIVEWAY-RELATED	4 PM						WBL-EBT
16	EB <sub>10</sub>	6RL0SZCGMZ	8/2/2019	DRIVEWAY-RELATED	1 PM	14/57					NBL-EBT
1/	EBd	CML19V8VP1 CML1B9V8ZZ	6/1/2020	DRIVEWAY-RELATED	3 PM	WEI					SBL-EBT SBL-EBT
19	$M^w$	LW9FQQ3	10/26/2016	MISC. OTHER	1 AM C	WET	DARK				WB SSS W Leg
20	WB1	CML19RSSG9	5/18/2018	LT-ANGLE	10 AM B						WB FTY
21	WB1	CML184FB53	6/11/2018	LT-ANGLE	5 PM						
23	WB <sub>1</sub>	CML1BZLVNB	11/15/2018	LT-ANGLE	1 PM						
24	WB <sub>2</sub>	CML19N3PHV	2/19/2020	RT-ANGLE	4 PM	SNOW					
25	WB <sub>5</sub>	CML18JRPB5	2/18/2019	REAR-END	8 AM	SNOW				Y	
26	WBs WBs	CML133SSFP	6/1/2020	REAR-END	5 PM						
28	WB <sub>6</sub>	CML10FKD82	6/12/2018	SIDE-SWIPE-SAME	5 PM						
29	WB <sub>9</sub>	CML179QKRD	1/5/2017	FIXED-OBJECT	10 AM						
30	WB <sub>9</sub>	CML19426VM	10/5/2018	FIXED-OBJECT	9 AM	WET					
31	WB <sup>a</sup>	LW9VBFP CMI189V923	11/16/2016	DRIVEWAY-RELATED	4 PM						SBL-EBT
33	HE	CML19QKRDQ	3/18/2020	HEAD-ON	2 PM	WET					WB1-36L
34	NBo	CML18F2LFJ	5/21/2019	PEDESTRIAN	12 PM A						EBL-Ped in cross
35	NB <sub>1</sub>	CML18F2KXW	1/25/2018	LT-ANGLE	4 PM	WET					
36	NB1 NB1	CML18F2L01 CML18F2LC1	4/18/2018	LT-ANGLE	4 PM 2 PM	WEI					
38	NB <sub>1</sub>	CML184FB7V	11/17/2018	LT-ANGLE	9 AM	WET				Y	
39	NB1	CML19KMM2J	3/25/2019	LT-ANGLE	3 PM						
40	NB <sub>1</sub>	CML18F2LFH	5/17/2019	LT-ANGLE	11 AM						
41	NB1	CML19111Q6	5/7/2020	LT-ANGLE	4 PM B		DARK				NB FYA
43	NB <sub>2</sub>	CML179QKS9	2/16/2017	RT-ANGLE	2 PM		Drutt				
44	NB <sub>2</sub>	CML1B2G28P	12/5/2019	RT-ANGLE	11 PM		DARK				NB ran red
45	NB <sub>5</sub>	LW8ZNLK	2/13/2016	REAR-END	5 PM C		DAY				Moved on green arrow
46	NB <sub>5</sub>	LW92MF1	3/8/2016	REAR-END	6 PM		DARK				
48	NBs	LW95L8T	6/21/2016	REAR-END	1 PM						
49	$NB_{5}$	LW9GH55	9/12/2016	REAR-END	1 PM C						Stopped in traffic
50	NB <sub>5</sub>	LW9MNLS	10/13/2016	REAR-END	4 PM C						Stopped in traffic
51 52	NB <sub>5</sub>	CML17BZLWL	10/17/2016 3/11/2017	REAR-END REAR-END	5 PM 12 PM						
53	NB <sub>5</sub>	CML17MLVNX	5/10/2017	REAR-END	11 AM						
54	$NB_{5}$	CML18L0Q85	7/28/2017	REAR-END	6 AM						
55	NB <sub>5</sub>	CML18L0Q8H	8/28/2017	REAR-END	12 PM						
56	NB <sub>5</sub>	CML18JRP55 CML184FB4H	4/19/2018	REAR-END	1 PM 2 PM						
58	NBs	CML19KMLXP	7/6/2018	REAR-END	7 AM						
59	$NB_{5}$	CML184FB66	8/9/2018	REAR-END	12 PM						
60	NB <sub>5</sub>	CML19KMLZS	9/1/2018	REAR-END	12 PM	WET					
62	NB <sub>5</sub>	CML19QKRC3	3/6/2018	REAR-END REAR-END	11 AM						
63	NBs	CML19KMM28	3/8/2019	REAR-END	9 PM		DARK				
64	NBs	CML19N3PDZ	4/13/2019	REAR-END	11 PM		DARK				
65	NB <sub>5</sub>	CML19RSSL5	10/11/2019	REAR-END	6 PM	WET	DARK			v	
67	NB <sub>5</sub>	CML19N3PJB	6/12/2020	REAR-END	5 PM	VVEI					
68	NBs	CML1BMQKSQ	11/13/2020	REAR-END	11 AM						
69	NB <sub>6</sub>	CML1B9V8WR	9/25/2019	SIDE-SWIPE-SAME	1 PM						
/0 71	NB <sub>9</sub>	LW8ZNN0	5/22/2016	FIXED-OBJECT	8 PM 9 AM		DAY				
72	NB <sub>9</sub>	CML19T1TKR	5/23/2018	FIXED-OBJECT	3 PM						
73	NB <sub>9</sub>	CML1BC3B2H	11/11/2019	FIXED-OBJECT	9 AM	SNOW				Y	
74	Mş	CML1855WT8	7/21/2017	MISC. OTHER	5 PM	WET					NBT-WBL thru traffic
75 76	SB1	LW92MDN	2/1//2016	LT-ANGLE	4 PM 9 PM		DARK				
77	SB1	CML18L0QDT	12/26/2018	LT-ANGLE	6 PM		DARK				
78	SB2	CML18L0Q6V	3/7/2017	RT-ANGLE	9 AM						
79	SB <sub>3</sub>	CML19T1TRB	12/22/2020	PEDESTRIAN	9 PM A		DARK				Ped in crosswalk
81	SBs	CML08HJN05	12/9/2017	REAR-END	10 PM		DARK				
82	$SB_{5}$	CML086WD73	1/6/2018	REAR-END	11 AM						
83	SBs	CML1884FFN	7/14/2018	REAR-END	10 PM		DARK				
84	SB <sub>5</sub>	CML18L0QFK	2/17/2019	REAR-END	4 PM	SNOW	0.00%			Y	
85 86	SB6	LW9GH5V	10/14/2016	SIDE-SWIPE-SAME	8 PM 12 PM	WET	DARK				
87	SB6	LW9GH6D	11/29/2016	SIDE-SWIPE-SAME	12 PM						
88	SB <sub>10</sub>	CML19KMM4D	8/12/2019	DRIVEWAY-RELATED	6 PM				_		SBT-EBR
89 ac	Mņ Mr	LW9F0F2	6/30/2016	MISC. OTHER	2 PM C	SNOW	DADY			v	NB rear N Leg
9U 91	Mo	CML1BC3B18	2/5/2018 9/6/2019	MISC. OTHER MISC. OTHER	5 PM	SNUW	DARK			T	wBR-Improper turn
92	Нņ	CML19KMM10	12/1/2018	HEAD-ON	11 AM	WET					
93	Mx	CML19RSSML	4/22/2020	MISC. OTHER	2 PM C						WBL-signal
94 95											
96											
97											
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# **A2.3 Intersection Collision Diagram**



DAI		REND.																									
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	MON	6
TUE	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	2	2	1	0	0	0	0	1	0	0	TUE	10
WED	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	2	0	1	0	0	0	0	0	0	WED	6
THU	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	1	0	0	0	1	1	1	0	THU	8
FRI	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	2	0	0	2	0	0	0	2	1	0	FRI	10
SAT	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	2	0	0	1	1	0	0	SAT	8
SUN	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	1	0	0	0	0	0	1	2	2	0	0	2	5	5	3	5	7	5	5	0	0	2	5	2	0	тот.	52

Corresponds to Collision Diagram

Location:	STH 26 & Mount Zion Avenue
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal



5 Years

Area Type:		Urban				0	M	onth	าร	
Ref # Label Doc. #	Date	Crash Type	Time	Severity	Road Cond.	Light Cond.	Alc. Flag	Drug Flag	Speed Flag	Notes
101										
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200										

1/1/2016

25,050

12/31/2020

From:

AADT:

To:

Ref							Road	Light	Alc.	Drug	Speed	
#	Label WB	Doc. #	Date C	rash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
2	WB1	CML18QXVPJ	7/3/2017	LT-ANGLE	5 PM	A						Stop for peds
3	WB1	CML1C22XW9	7/7/2017	LT-ANGLE	6 PM							
4	WB <sub>2</sub>	CML17MLVN6	1/31/2017	RT-ANGLE	2 PM		WET					
5	M86 ME	CML184FB4G CMI 19I VN68	4/19/2018	SIDE-SWIPE-SAME	1 PM			DARK				SBI improper turn
7	NB <sub>1</sub>	CML18QXVNB	3/30/2017	LT-ANGLE	12 PM		WET	Drutt				NBL FYA
8	NB <sub>2</sub>	CML1BRFP3D	8/7/2020	RT-ANGLE	7 AM	С						Signal unknown
9	NBs	LW8ZNKT	1/20/2016	REAR-END	12 PM		WET					51
10	NBs	LW90DTF	4/20/2016	REAR-END REAR-END	5 PM	c					Ŷ	Construction
12	NB <sub>5</sub>	CML18F2KW3	9/29/2017	REAR-END	10 PM	-		DARK				
13	$NB_{5}$	CML0XVN01K	1/3/2018	REAR-END	4 PM		WET	DAY				
14	NBs NR	CML19RSSFQ	4/13/2018	REAR-END	6 PM		WET					
15	NBs	CML19KMM3T	6/24/2019	REAR-END REAR-END	4 PM 4 PM		WFT					
17	NBs	CML1BC3B2C	10/31/2019	REAR-END	7 AM	С	WET	DAY			Y	Snowy road
18	NBs	CML133SSFK	5/9/2020	REAR-END	6 PM							
19	NB <sub>5</sub>	CML1BC3B5Q	9/18/2020	REAR-END	12 PM		11/57					
20	NBs	CML1B3P3BN	3/13/2018	SIDE-SWIPE-SAME	6 AM		WET	DAY		Y		
22	NB <sub>9</sub>	CML179QKW5	11/20/2017	FIXED-OBJECT	4 PM							
23	Mş	CML19KMM01	9/18/2018	MISC. OTHER	3 PM	с						SB rear S Leg
24	SB1 SR.	CMI 19OKRDH	2/18/2016	LT-ANGLE	5 PM	С	WET	DAY				OUT of study area
26	SB <sub>1</sub>	CML19N3PJX	10/3/2020	LT-ANGLE	9 PM	с	WEI	DARK				On yellow-red
27	SB2	CML189CGLS	6/22/2018	RT-ANGLE	10 PM			DARK				SB ran red
28	SB <sub>2</sub>	CML19KMM4F	8/13/2019	RT-ANGLE	5 PM							SBR-WBT
29	SB3 SR	CML19LVN15	6/11/2018	PEDESTRIAN REAR-END	3 PM	В	SNOW					Bike in cross hit SB
31	SBs	LW9GH51	9/1/2016	REAR-END	10 PM		314044	DARK				
32	SBs	LW9MNLZ	10/27/2016	REAR-END	11 AM	с						OUT of study area
33	SBs	LW92MGM	10/28/2016	REAR-END	2 PM							
34	SBs SBs	CML1/MLVNF CML1884FBX	3/18/2017	REAR-END	1 PM							
36	SBs	CML17MLVP5	6/26/2017	REAR-END	5 PM	в						Slowing in traffic
37	$SB_{5}$	CML1C22XXG	5/7/2018	REAR-END	5 PM							
38	SBs	CML19KMM0B	10/6/2018	REAR-END	2 PM		WET				Y	
39	SBs SBs	CML18L0QDW CML19KMM1K	1/2/2018	REAR-END	12 PM		WET	DARK				
40	SBs	CML19N3PGQ	1/2/2019	REAR-END	3 PM		WEI	DANK				
42	$SB_{5}$	CML19N3PJ3	3/15/2020	REAR-END	4 PM	в						Moving on green
43	SBs	CML19T1TQ8	6/9/2020	REAR-END	4 PM		WET					
44	SBs SBs	CML1BSNQ85	11/13/2020	REAR-END REAR-END	11 PM			DARK				
46	SB6	CML18JRPCR	8/31/2019	SIDE-SWIPE-SAME	6 PM			DAY				
47	Мņ	CML18QXVSC	2/8/2018	MISC. OTHER	11 PM	В	SNOW	DARK	Y		Y	EBL-improper turn
48	P <sub>x</sub>	CMI 184EBOR	2/11/2017	PEDESTRIAN	9 PM	C		DARK				NBL-SB bike
50	M <sub>x</sub>	LW9H74F	1/31/2016	MISC. OTHER	12 P M	в	WET	DARK				EBL-improper turn
51	Mx	CML11R2KTD	2/18/2020	MISC. OTHER	10 PM			DARK				SB SSS Mid Int
51 52	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	с		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	С		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	С		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 57	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				SB SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64	M <sub>x</sub> M <sub>x</sub>	CML1R2XTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	M <sub>x</sub> M <sub>x</sub>	CML182KTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	M <sub>x</sub> M <sub>x</sub>	CML182KTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69	Mx Mx	CML182KTD CML189V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	Mx Mx	CML1R2KTD CML1B9V912	2/18/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72	Mx Mx	CML1R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73	Mx Mx	CML182KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73           74	Mx Mx	CML1R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73           74	Mx Mx	CML1R2KTD CML1B9V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73           74           75           76	M <sub>*</sub> M <sub>*</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73           74           75           77           78	M <sub>*</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           70           71           72           73           74           75           76           77           78	M <sub>x</sub> M <sub>x</sub>	CML182KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 90 90 90 90 90 90 90 90 90 9	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82	M <sub>x</sub> M <sub>x</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83	M <sub>x</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51           52           53           54           55           56           57           58           59           60           61           62           63           64           65           66           67           68           69           701           72           73           74           75           77           78           79           80           81           82           83	M <sub>8</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 80 81 77 78 82 83 84 85 82 82 83 84 85 82 83 84 85 83 84 85 85 85 83 84 85 85 85 85 85 85 85 85 85 85	M <sub>8</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 80 81 77 77 78 82 83 84 85 87	M <sub>8</sub>	CML182KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86 87 83 84 85 85 85 85 85 85 85 85 85 85	M.	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 84 85 84 85 84 85 84 85 85 85 85 85 85 85 85 85 85	M <sub>8</sub>	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 66 67 70 71 72 73 74 75 76 88 88 88 89 90 91	M. M.	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	с 		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 73 74 75 76 77 80 81 82 83 84 85 85 85 90 90 91 92 92	M. M.	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 80 81 82 83 84 85 85 89 90 91 92 93	M. M.	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 60 61 62 63 64 65 66 66 66 67 68 66 67 68 69 71 71 72 73 74 75 80 81 82 83 84 85 83 84 85 90 91 92 93 94	M. M.	CML11R2KTD CML189V912	2/19/200 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 80 81 82 83 84 85 84 85 80 90 91 92 93 94 95 94 95 95 90 91 92 94 95 95 95 95 95 95 95 95 95 95	M. M.	CML11R2KTD CML189V912	2/19/200 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 56 60 61 62 63 64 63 64 65 67 70 71 72 73 74 72 73 74 75 80 81 82 83 84 85 89 90 91 92 93 94 95 97 97	M. M.	CML11R2KTD CML189V912	2/19/2020 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51 52 53 54 55 56 57 58 56 60 61 62 63 64 65 67 68 67 70 71 72 73 74 70 71 72 73 74 80 81 82 83 84 85 89 90 91 92 93 95 96 97 98 88 88 88 88 88 89 90 91 92 93 94 95 97 98 88 88 88 88 88 88 88 88 88	M. M.	CML11R2KTD CML189V912	2/19/200 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int
51           52           53           54           55           56           57           58           56           60           61           62           63           64           67           73           74           75           76           77           78           790           81           82           83           84           85           87           90           91           92           93           94           95           96           97           98           99           93           94           95           96           97           98           99	M. M.	CML11R2KTD CML189V912	2/19/200 9/16/2020	MISC. OTHER MISC. OTHER	10 PM 1 PM	C		DARK				58 SSS Mid Int SBL rear mid-int SBL rear mid-int

# **A2.4 Intersection Collision Diagram**



Crashes have been vetted. NB ped was a bike in the crosswalk. 15 crashes were at the West service road and 6 crashes were at the East service road (shown as driveway crashes).

DAY/TIME TRENDS

	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	MON	3
TUE	0	0	1	0	0	0	0	0	0	0	0	1	0	2	2	1	4	3	1	1	0	0	0	0	0	TUE	16
WED	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	4	0	2	0	0	0	0	0	0	WED	8
THU	0	0	0	0	0	1	0	0	1	0	0	1	2	0	0	0	1	0	2	0	0	0	0	0	0	THU	8
FRI	0	0	0	0	0	0	0	0	0	0	0	0	4	1	2	1	1	3	1	0	0	1	1	1	0	FRI	16
SAT	1	1	0	0	0	0	0	0	0	1	1	2	1	0	1	1	3	1	2	0	0	1	0	1	0	SAT	17
SUN	0	0	0	1	0	0	0	1	0	0	0	0	3	1	4	0	3	0	0	0	0	0	0	0	0	SUN	13
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	1	1	1	1	0	1	0	1	1	2	1	4	11	4	11	3	17	7	8	1	0	2	1	2	0	тот.	81

report needed for direction

TOTAL VEHICLES

160

Location:

Corresponds to Collision Diagram

STH 26 & Lodge Drive

	TADI)
1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
12/31/2020	Duration

N	luni	cipality:		City of Janesvi	ille				To:	12/31/2020		Dura	tion		
C	oun	tv:		Rock					AADT:	26.100		5	Yea	ars	
Т	aff	ic Control		Traffic Signal					Area Type:	Urban		0	Ma	nths	
	ann	e controll							, aca , ypc.	onsan		•			
Pof						Road	Light Alc Drug Spee	ud.	Pof		Road	Light	Alc	Drug Speed	
#	Labe	el Doc. #	Date 0	Crash Type	Time Severit	ty Cond.	Cond. Flag Flag Flag	Notes	# Label Doc. # Dat	te Crash Type Time	Severity Cond.	Cond.	Flag	Flag Flag	Notes
1	EB1	CML19KMM0X	11/27/2018	LT-ANGLE RT ANGLE	7 PM	WET	DARK	Head on mid Int	101						
3	EB2	CML1B8M7VL	12/12/2020	RT-ANGLE	11 AM B	SNOW	Ŷ	SB ran red	102						
4	EBd	LW8ZNLH	2/13/2016	DRIVEWAY-RELATED	11 AM C			SB-EB E service dr	104						
5	EB <sup>d</sup>	LW8ZNLJ	2/13/2016	DRIVEWAY-RELATED	4 PM			SB-EB E service dr	105						
7	EBd	CML19KMM0W	11/4/2016	DRIVEWAY-RELATED	4 PM 5 PM	WET	DARK	SB-EB E service dr SB-EB E service dr	106						
8	EBd	CML19KMM14	12/11/2018	DRIVEWAY-RELATED	4 PM		DARK	SB-EB E service dr	108						
9	EBd	CML19KMM1Q	1/20/2019	DRIVEWAY-RELATED	12 PM			SB-EB E service dr	109						
10	WB <sub>2</sub> WB <sub>3</sub>	CMI 18F2KSK	12/11/2016 4/3/2017	RT-ANGLE RT-ANGLE	4 PM	SNOW	DARK Y	NB slid into Int	110						
12	WB <sub>2</sub>	CML179QKTZ	6/15/2017	RT-ANGLE	4 PM C	WEI		Signal unknown	112						
13	WB <sub>2</sub>	CML19QKRDJ	1/23/2020	RT-ANGLE	5 AM	SNOW	DARK Y	NB ran red	113						
14	WBd	LW93CN4	6/12/2016	DRIVEWAY-RELATED	12 PM			NB-WB W service rd	114						
15	WBd	LW9PW3C	11/10/2016	DRIVEWAY-RELATED	4 PM			NB-WB W service rd	115						
17	WB <sup>d</sup>	CML17MLVNB	2/23/2017	DRIVEWAY-RELATED	12 PM C			NB-WB W service rd	117						
18	WBd	CML184FB1G	3/28/2017	DRIVEWAY-RELATED	5 PM			NB-WB W service rd	118						
19	WB <sup>d</sup>	CML19KMLZJ CML19KMM07	8/11/2018	DRIVEWAY-RELATED	4 PM			WBL-EBT W service dr	119						
20	WBd	CML19N3P5M	12/28/2018	DRIVEWAY-RELATED	3 PM	WET		NB-WB W service rd	120						
22	WBd	CML1B3P3B9	1/12/2019	DRIVEWAY-RELATED	3 PM	SNOW		NB-WB W service rd	122						
23	WBd	CML19LVN5G	7/9/2019	DRIVEWAY-RELATED	2 PM			NB-WB W service rd	123						
24	WB*	CML19RSSKR	8/26/2019	DRIVEWAY-RELATED	2 PM C 4 PM	WET		NB-WB W service rd	124						
26	WBd	CML1BFKD88	11/12/2019	DRIVEWAY-RELATED	1 PM			SB-WB W service rd	126						
27	WBd	CML1BDBC5T	6/12/2020	DRIVEWAY-RELATED	5 PM	WET		NB-WB W service rd	127						
28	WB <sup>a</sup>	CML1BGSFFB	12/19/2020	DRIVEWAY-RELATED	2 PM C	WET		NB-WB W service rd	128						
30	NB <sub>1</sub>	LW9H77N	11/8/2016	LT-ANGLE	4 PM C 11 AM			On yellow-red	129						
31	NB <sub>1</sub>	LW9PW3D	11/20/2016	LT-ANGLE	2 PM		Y	On yellow-red	131						
32	NB <sub>1</sub>	LW8ZNRS	12/23/2016	LT-ANGLE	6 PM	SNOW	DARK	SB ran red	132						
33	NB <sub>1</sub>	CML18JRP3L CML19LVN5H	1/29/2017	LT-ANGLE	1 PM				133						
35	NB <sub>1</sub>	CML1B2G27M	7/25/2019	LT-ANGLE	4 PW				134						
36	NB <sub>1</sub>	CML19RSSKW	9/6/2019	LT-ANGLE	5 PM B			Motorcycle	136						
37	NB <sub>1</sub>	CML1BQ6N0G	11/5/2020	LT-ANGLE	6 PM		DARK		137						
38	NB <sub>1</sub>	CML1BMQK12	2/6/2016	LT-ANGLE	2 PM C			On yellow-red	138						
40	NB <sub>2</sub>	LW9GH68	11/25/2016	RT-ANGLE	12 PM C			EB ran red	140						
41	NB <sub>2</sub>	CML08L0Q6Z	12/26/2017	RT-ANGLE	4 PM		DAY		141						
42	NB <sub>3</sub>	CML19426P1	5/18/2017	PEDESTRIAN	6 PM		DARK	NBL-Bike in cross	142						
43	NB <sub>6</sub>	CML19426Q0	8/22/2017	SIDE-SWIPE-SAME	6 PM		DARK		145						
45	Mş	CML18QXVNW	5/24/2017	MISC. OTHER	4 PM			WBL-EBR SSS S Leg	145						
46	Mş	CML18F2KWL	11/18/2017	MISC. OTHER	1 AM	UNKN	DARK	SB rear S Leg	146						
47	SB1 SB1	CMI 18368VX	5/10/2016	LT-ANGLE	3 PM	WET		CD ETV	147						
40	SB <sub>1</sub>	CML08L0Q6W	12/24/2017	LT-ANGLE	7 AM	SNOW		30111	149						
50	SB1	CML19N3P41	4/14/2018	LT-ANGLE	10 AM	WET		thru traffic	150						
51	SB1	CML19QKRBH	8/24/2018	LT-ANGLE	5 PM	WET	DADY	60 F)/A	151						
52	SB1	CML19T1TMT	4/3/2019	LT-ANGLE	4 PM	WEI	DARK	SBEYA	152						
54	SB1	CML19QKRFN	10/31/2020	LT-ANGLE	12 PM C				154						
55	SB <sub>2</sub>	LW9GH50	8/27/2016	RT-ANGLE	5 PM			SB ran red	155						
56	SB <sub>2</sub>	LW90DS5	2/16/2020	RI-ANGLE REAR-END	4 PM 6 PM 8	SNOW	DARK V	SB ran red	156						
58	SBs	LW9JPK0	1/31/2016	REAR-END	2 PM	WET	Druk	Showyrodd	158						
59	$SB_5$	LW90DW6	8/30/2016	REAR-END	4 PM				159						
60	SBs	LW9GH64	11/4/2016	REAR-END	11 PM	CNOW/	DARK	Moved on green	160						
62	SBs	CML184FB07	1/11/2018	REAR-END	6 PM C	WET	DARK		161						
63	$SB_{5}$	CML18QXVP1	5/28/2017	REAR-END	2 PM				163						
64	SBs	CML18JRP4N	6/30/2017	REAR-END	12 PM				164						
65	SBs SBs	CML18JRP5J CML08NGSG2	2/2/2018	REAR-END REAR-END	12 PM				165						
67	SB <sub>5</sub>	CML18QXVSS	3/9/2018	REAR-END	10 PM		DARK Y Y		167						
68	SBs	CML19WHWVW	5/26/2018	REAR-END	11 PM		DARK		168						
69	SBs	CML19QKRB6	6/27/2018	REAR-END	4 PM				169						
71	SBs	CML19KMLXV	7/18/2018	REAR-END	12 PW C				171						
72	$SB_{5}$	CML184FB7P	11/7/2018	REAR-END	6 PM		DARK		172						
73	SBs	CML1B2G26X	3/9/2019	REAR-END	12 AM		DARK		173						
75	SBs SR.	CML19KSSNW CML086WD7I	9/11/2020 2/3/2019	SIDE-SWIPE-SAME	2 PM B 6 PM	SNOW	DARK		1/4						
76	SB6	CML18QXVZ6	12/10/2019	SIDE-SWIPE-SAME	5 PM	511011	DAY		176						
77	SB6	CML1BSNQ7T	10/27/2020	SIDE-SWIPE-SAME	1 PM				177						
78	Mņ	LW9FQQM	12/23/2016	MISC. OTHER	1 PM C	WET	DADY	NB rear N Leg	178						
80	Mo	CML179QKV6	8/11/2017	MISC. OTHER MISC. OTHER	2 AM 2 PM		DARK	WBR-NB SSS N Leg	179						
81	Mx	CML19N3PJ8	5/31/2020	MISC. OTHER	3 AM		DARK	Fell Asleep-signal	181						
82									182						
83									183						
85									185						
86									186						
87									187						
88									188						
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96									196						
97 99									19/						
99									199						
100									200						

From:

# **A2.5 Intersection Collision Diagram**



DAY/	I IIVIE I	RENDS																									
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	2	2	1	1	0	0	0	0	0	MON	9
TUE	0	0	0	0	0	0	0	0	1	0	1	1	1	1	2	2	0	2	0	0	0	0	0	0	0	TUE	11
WED	0	0	0	0	0	0	0	1	1	1	2	1	2	0	0	0	0	2	0	1	0	0	0	0	0	WED	11
THU	0	0	0	0	0	0	0	0	2	0	0	2	3	0	1	1	0	1	1	1	1	2	0	0	0	тни	15
FRI	0	0	0	0	0	0	0	1	0	0	1	0	1	2	2	2	0	0	0	0	0	1	1	2	0	FRI	13
SAT	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	SAT	5
SUN	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	SUN	5
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	1	0	1	0	0	0	0	2	4	3	5	5	7	7	5	5	3	7	2	4	1	4	1	2	0	тот.	69

Ref

Corresponds to Collision Diagram

Location:	STH 26 & Kennedy Road/Randolph Road	From:
Municipality:	City of Janesville	To:
County:	Rock	AADT:
Traffic Control:	Traffic Signal	Area Type:

Road Light Alc. Drug Speed



5 Years

1/1/2016 12/31/2020

29,650

	ea 1	Гуре	:		Ur	ban				0	M	onth	ıs	
Ref #	Label	Doc. #		Date	Crasi	h Type	Time	Severity	Road Cond.	Light Cond.	Alc. Flag	Drug Flag	Speed Flag	Notes
101 102														
103 104														
105														
106 107														
108														
109														
111														
112														
115														
115														
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119 120														
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#	Label	D0c. #	Date Ci	lasii iype	Time	Severity	Cond.	Cond.	Flag	1 lag	гіад	Notes
1	EB1	CML19T1TMF	2/5/2019	LT-ANGLE	5 PM		ICE	DARK				
2	EB1	CML1B9V90M	7/30/2020	LT-ANGLE	9 PM	С		DARK				On yellow
3	EBs	LW8ZNNB	6/15/2016	SIDE-SWIPE-SAME	12 PM							
4	FB.	LW92MGB	8/31/2016	SIDE-SWIPE-SAME	7 AM							
-	50	11/02/04/	1/12/2016		2.014		CN/ON/				v	FD such anotherals
5	ED <sub>2</sub>	LW93CIVIC	1/12/2016	FIXED-OBJECT	2 PM		SNOW				Ŷ	EB-CUID, SNOWDANK
6	EB10	LW92IVIFIVI	5/31/2016	DRIVEWAY-RELATED	10 AM							EB backing-NBR
7	EB <sub>10</sub>	CML184FB4P	5/18/2018	DRIVEWAY-RELATED	10 AM							NB-EBT
8	Mw	LW9QM9L	8/12/2016	MISC. OTHER	11 PM			DARK			Y	SBR improper turn
9	WB1	CML184FB9F	2/11/2019	LT-ANGLE	7 PM		SNOW	DARK				
10	WB <sub>2</sub>	LW943T7	4/27/2016	RT-ANGLE	9 AM							
11	WB <sub>2</sub>	CML1884FBD	1/16/2017	RT-ANGLE	10 AM	,	WET	DARK			Y	NB slid into Int
12	WB <sub>5</sub>	LW943ST	3/1/2016	REAR-END	2 PM		SNOW					
13	WB.	CMI 180XVT9	5/7/2018	REAR-END	1 PM	R						
14	WR.	CMI1BDBC71	10/20/2020	PEAR END	11 0.04	-					v	
10	W/P	CMI 180YVN9	2/26/2020		0.444							NDL WDT
15	110	CIVILIBIQATING	3/26/2017	DRIVE WAT-RELATED	9 AIVI		VVEI					INDL-WD I
16	H*	LW9FQQK	12/18/2016	HEAD-ON	1 PM		SNOW				Ŷ	NBR improper turn
17	NB <sub>1</sub>	LW90DW1	7/25/2016	LT-ANGLE	4 PM	В						Construction
18	NB <sub>2</sub>	LW9H765	7/21/2016	RT-ANGLE	9 PM	C	WET	DARK				Unknown signal
19	NB <sub>2</sub>	CML184FB0P	2/11/2017	RT-ANGLE	9 AM							
20	NB <sub>2</sub>	CML1884FCV	10/10/2017	RT-ANGLE	1 PM		WET					
21	NB <sub>2</sub>	CML19LVN52	5/31/2019	RT-ANGLE	9 PM	В		DARK				NB ran red
22	NB.	CMI 184EB9C	2/8/2019	RT-TURN REAR-END	12 PM							
22	NR.	LW9GH1T	2/8/2015		12 F W	<i>c</i>						Construction
23	NDS	LWSGHIT	4/21/2016	REAR-END	8 AM	L						Construction
24	NB <sub>5</sub>	LW9IVINHP	4/22/2016	REAR-END	11 PM			DARK				
25	NBs	LW8ZNP8	8/5/2016	REAR-END	2 PM							
26	NBs	CML19N3P54	9/12/2018	REAR-END	12 PM							
27	NB <sub>5</sub>	CML19RSSJ1	1/2/2019	REAR-END	10 AM	,	WET				Y	
28	NB <sub>6</sub>	CML18S5WS3	4/21/2017	SIDE-SWIPE-SAME	10 PM			DARK				
29	NBs	CML19T1TK2	3/30/2018	SIDE-SWIPE-SAME	1 PM							
30	NB-	CML19I VN7T	11/10/2019	SIDE-SWIDE-CANAC	1 F IVI			DAR				
21	NP	CMI 10W/UNADA	7/10/2010	SIDE SWIPE CAMP	12 474		\A/ET	DARK				
31	ND6	CMULDAVAGE	7/12/2020	SIDE-SWIPE-SAME	12 AM		VVE I	UAKK				
32	NB6	CIVIL1BW45FH	//14/2020	SIDE-SWIPE-SAME	3 PM							
33	NB <sub>9</sub>	LW9GH41	7/12/2016	FIXED-OBJECT	8 AM			DAY				
34	NB <sub>9</sub>	CML19RSSJW	4/25/2019	FIXED-OBJECT	11 AM							
35	NB <sub>9</sub>	CML1BDBC5R	6/13/2020	FIXED-OBJECT	2 AM			DARK				
36	NB <sub>10</sub>	LW9HZCB	8/3/2016	DRIVEWAY-RELATED	7 PM							WBL-EBT
37	SB1	LW9MNK1	7/14/2016	LT-ANGLE	17 PM							On vellow-red
20	SR.	CMI 18F2KVA	9/7/2010	LT ANGLE	11 AM	c						CD ETV
30	501	CMI 104360Y	42/0/2017	LT-ANGLE	11 /10	c						30111
39	301	CIVIL19428QX	12/8/2017	LT-ANGLE	3 PM							
40	5B1	CML1C22XX7	2/5/2018	LT-ANGLE	5 PM		WET	DARK				
41	SB1	CML19KMM13	12/6/2018	LT-ANGLE	2 PM	C						SB FYA
42	SB1	CML19KMM1V	1/24/2019	LT-ANGLE	7 PM			DAY				
43	SB1	CML18QXVXT	6/13/2019	LT-ANGLE	12 PM	С						SB FYA
44	SB1	CML11R2KSV	8/1/2019	LT-ANGLE	3 PM	В						SB FYA
45	SB1	CML19QKRFM	10/16/2020	I T-ANGLE	2 PM	C						SB FTY
46	SB <sub>2</sub>	CMI 18IRP5W	11/12/2017	RT-ANGLE	1 PM	-	WET					
40	502	CMU18LOOPD	2/11/12/2017	RT-ANGLE	1 1 1 1 1		VVLI					
4/	302	CIVILIALOQBP	3/14/2018	RT-ANGLE	10 AM							
48	302	CIVIL184FB0F	8/22/2018	R1-ANGLE	8 AM	В						SB ran red
49	SBs	LW9GH19	3/11/2016	REAR-END	1 PM							
50	SBs	LW8ZNM5	3/22/2016	REAR-END	12 PM							
51	SBs	LW9JPKD	4/28/2016	REAR-END	8 PM	C I	WET	DARK			Y	Moved on green
J.												
52	SB <sub>5</sub>	LW9GH2S	5/26/2016	REAR-END	12 PM	C						
52	SBs SBs	LW9GH2S LW9GH2W	5/26/2016 6/1/2016	REAR-END REAR-END	12 PM	с						
52 53	SBs SBs SBr	LW9GH2S LW9GH2W	5/26/2016 6/1/2016	REAR-END REAR-END	12 PM 11 AM	C						
52 53 54	SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC	5/26/2016 6/1/2016 6/17/2016	REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM	c	WET	DAY				
52 53 54 55	SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N	5/26/2016 6/1/2016 6/17/2016 10/12/2016	REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM	C	WET	DAY				
52 53 54 55 56	SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017	REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM	C ,	WET	DAY DARK				
52 53 54 55 56 57	SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L CML184FB0L	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM	C	WET	DAY DARK				
52 53 54 55 56 57 58	SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L CML184FB4Q CML19T1TM2	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM	c	WET	DAY DARK				
52 53 54 55 56 57 58 59	SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L CML184FB4Q CML19T1TM2 CML19KMM1C	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 3 PM	c	WET WET WET	DAY DARK				
52 53 54 55 56 57 58 59 60	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L CML184FB4Q CML19T1TM2 CML19KMM1C CML184FBC6	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 3 PM 6 PM	C	WET WET WET	DAY DARK				
52 53 54 55 56 57 58 59 60 61	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184FB0L CML184FB4Q CML1911TM2 CML19HMM1C CML184FBC6 CML18282S	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 12/2/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM	C	WET WET WET	DAY DARK	Y			
52 53 54 55 56 57 58 59 60 61 61	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW82NNC LW9GH5N CML184F80L CML184F80Q CML19T1TM2 CML19T1TM2 CML19KMM1C CML184F8C6 CML18KMM51	5/26/2016 6/1/2016 6/1/2016 2/1/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 12/2/2019	REAR-END	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM	C	WET WET WET	DAY DARK DARK	Ŷ		v.	
52 53 54 55 56 57 58 59 60 61 62 62	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184F80L CML184F80L CML19F1TM2 CML19KIMM1C CML184F8C6 CML184F8C5 CML19KIMM61	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 12/2/2019 12/2/2019 1/18/2020	REAR-END	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 1 PM	C .	WET WET SNOW	DAY DARK DARK	Ŷ		Ŷ	Notestand use and
52 53 54 55 56 57 58 59 60 61 62 63	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184F80L CML184F84Q CML19TITM2 CML19KMM1C CML184F866 CML186F825 CML19KMM61 CML19RSSNV	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/28/2018 5/20/2019 12/2/2019 1/18/2020 8/31/2020	REAR-END	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 1 PM 4 PM	C C	WET WET SNOW	DAY DARK DARK	Ŷ		Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194SNV LW98RT4	5/26/2016 6/12/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/28/2018 5/20/2019 12/2/2019 12/2/2019 12/2/2019 13/2020 3/31/2016	REAR-END           SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 1 PM 4 PM 4 PM 5 PM	C	WET WET SNOW WET WET	DAY DARK DARK	Ŷ		Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64 65	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH2S LW9GH2W LW8ZNNC LW9GH5N CML184F80L CML184F80L CML184F80Q CML194F8C6 CML19KMM1C CML198C5S CML19KMM61 CML19RSSNV LW92MF6	5/26/2016 6/17/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 12/28/2018 5/20/2019 12/2/2019 12/2/2019 13/31/2020 3/31/2016	REAR-END           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 1 PM 4 PM 5 PM 3 PM	C	WET WET SNOW WET WET	DAY DARK DARK	Y		Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH25 LW9GH2W LW92NNC LW92NNC CML194FB0L CML194FB4Q CML194FB4Q CML19KMM1C CML194FB62 CML19R325 CML19RSSNV LW92MF6 CML184FB83	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/22/2019 12/2/2019 12/2/2019 3/31/2016 12/1/2018	REAR-END           SIDE-SWIPE-SAME           SIDE-SMIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 1 PM 4 PM 5 PM 3 PM 7 PM	C	WET WET SNOW WET WET	DAY DARK DARK DARK	Y		Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW9GH2W LW92NNC LW92NNC CML184F80L CML1971TM2 CML1971TM2 CML197KMM1C CML197KMM61 CML197SSNV LW9BRT4 LW92R4 LW92R46 CML187S824	5/26/2016 6/11/2016 6/17/2016 10/12/2016 2/12/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2019 12/22/2019 12/22/2019 12/22/2019 12/22/2019 3/31/2020 8/31/2020 4/5/2016 12/1/2018 10/10/2019	REAR-IND           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 5 PM 4 PM 4 PM 5 PM 3 PM 3 PM 6 PM 6 PM	C	WET WET SNOW WET WET WET WET	DAY DARK DARK DARK DARK	Y		Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H25 LW96H5N CML184F80L CML184F80L CML184F80C CML184F80C CML184F80C CML1985NV CML1985NV LW98H74 LW92MF6 CML184F883 CML184F883 CML184F883	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 12/28/2018 3/31/2016 12/14/2018 12/14/2018 12/14/2018 12/14/2018	REAR-END           SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 6 PM 11 AM 6 PM 5 PM 1 PM 4 PM 5 PM 7 PM 6 PM 5 PM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		Y Y Y	Hydroplaned-wet road
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	SBs	LW96H25 LW96H25 LW96H5N CML184F80L CML184F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML194F83 CML184F83 CML184F83 CML184F83	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/28/2018 12/28/2019 12/2/2019 12/2/2019 1/18/2020 3/31/2016 4/5/2016 12/1/2018 10/10/2019 5/3/2016 6/18/2020	REAR-IND           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           MISC, CITHER	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 6 PM 5 PM 1 PM 7 PM 6 PM 5 PM 7 PM 6 PM 8 AM	С , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		Y Y Y	Hydroplaned-wet road SBL-signal NS signal
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	SB3 SB3 SB3 SB3 SB3 SB3 SB3 SB3 SB3 SB3	LW96H25 LW96H25 LW96H50 CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80S CML184F80S CML184F883 CML184F883 CML184F883 CML184F883 CML184F883 CML184F883 CML184F883 CML184F883 CML184F883	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 12/28/2018 5/20/2019 12/28/2018 3/31/2020 3/31/2016 4/5/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC. OTHER MISC. OTHER	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 6 PM 5 PM 1 PM 4 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Y		Y Y Y	Hydroplaned-wet road SBL-signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H25 LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 12/27/2018 12/28/2018 5/20/2019 12/2/2019 3/31/2016 4/5/2016 12/1/2018 10/10/2019 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 6 PM 5 PM 5 PM 5 PM 7 PM 5 PM 5 PM 8 AM	С , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET WET	DAY DARK DARK DARK DAY	Y		Y Y Y	Hydroplaned-wet road SBL-signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 64 65 66 66 66 67 70 70 71 72	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H25 LW96H50 CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80S CML184F80S CML196KM61 LW92MF6 CML184F883 CML196Z824 LW9MNHW CML19QKR1	5/26/2016 6/1/2016 6/17/2016 6/17/2016 1/2/2016 1/2/2017 5/20/2018 5/20/2019 1/2/2019 1/2/2019 1/2/2019 1/2/2019 1/2/2016 8/31/2016 6/18/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC. OTHER MISC. OTHER	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 6 PM 5 PM 1 PM 4 PM 5 PM 3 PM 7 PM 6 PM 5 PM 8 AM	С	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Ŷ		¥ ¥ ¥	Hydroplaned-wet road S81signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 72	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27W LW92NNC LW96H5N CML184F80L CML184F84Q CML194F84Q CML194F84 CML194F84 CML194F84 CML1945SNV LW98R4 LW92NF6 CML194F883 CML194F883 CML194C84 LW95NHW CML194F883	5/26/2016 6/1/2016 6/1/21016 10/11/2016 12/1/2017 5/20/2018 12/27/2018 12/27/2018 5/20/2019 11/2/2019 11/2/2019 8/31/2020 8/31/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 3 PM 6 PM 1 PM 4 PM 1 PM 4 PM 5 PM 5 PM 6 PM 5 PM 8 AM	с 	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Ŷ		Υ Υ Υ	Hydroplaned-wet road 58L-signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH25 LW9GH25 LW9GH50 LW9GH5N CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80C CML184F80S CML19KMM61 CML198SSNV LW98RT4 LW92RF6 CML184F83 CML192RF6 LW9MNHW CML19QKRF1	5/26/2016 6/1/2016 6/1/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/20/2019 12/2/2018 4/5/2016 4/5/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPE SAME SIDE SWIPE SAME SIDE SWIPE SAME MISC. OTHER MISC. OTHER	12 PM 11 AM 7 AM 5 PM 5 PM 4 PM 11 AM 3 PM 1 PM 1 PM 4 PM 5 PM 3 PM 7 PM 6 PM 5 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		Υ Υ Υ	Hydroplaned-wet road SBL-signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 64 65 66 66 66 67 70 71 72 73 74	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27W LW92NNC LW96H5N CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML95F80 C	5/26/2016 6/1/2016 10/11/2016 12/1/2016 12/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/2/2018 12/2/2019 11/8/2020 3/31/2016 6/18/2020	REAR-IND           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           MISC_OTHER	12 PM 11 AM 7 AM 5 PM 4 PM 5 PM 11 AM 7 PM 4 PM 5 PM 5 PM 5 PM 5 PM 8 AM	С , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET	DAY DARK DARK DARK	Y		Y Y Y	Hydroplaned-wet road SBL-signal NB signal
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72 73 74 75	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27 LW96H5N LW96H5N CML184F80L CML184F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F883 CML194F883 CML194F883 CML194F883 CML194F883	5/26/2016 6/1/2016 6/17/2016 7/1/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 5/20/2019 1/18/2020 8/31/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 6 PM 11 PM 4 PM 1 PM 4 PM 3 PM 7 PM 3 PM 3 PM 3 PM 3 PM 3 PM 3 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		Υ Υ Υ	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 69 70 71 72 73 74 75 76	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27W LW92NNC LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/28/2018 5/20/2019 1/1/8/2020 3/31/2016 4/5/2016 12/1/2018 5/2/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC. OTHER MISC. OTHER	12 PM 11 AM 7 AM 5 PM 5 PM 11 AM 3 PM 11 AM 5 PM 5 PM 5 PM 5 PM 6 PM 5 PM 8 AM	С , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 57 58 59 60 61 62 63 64 65 66 66 66 66 66 66 67 70 71 72 73 74 75 76 77	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27W LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80S CML194F883 CML194F883 CML194F883 CML194F883	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2019 1/18/2020 4/3/12/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 5 PM 1 PM 4 PM 3 PM 7 PM 5 PM 8 AM	с , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET	DAY DARK DARK DARK DARK	Y		¥ ¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 63 64 65 66 67 70 71 72 73 74 75 76 77 77 78	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW96H25 LW96H27 LW96H50 CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F80L CML184F802 CML184F803 CML196XMM61 CML196X851 LW92MF6 CML184F883 CML19QK8F1	5/26/2016 6/1/2016 6/17/2016 10/11/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2019 11/12/2016 13/31/2016 12/12/2016 12/12/2016 6/18/2020	REAR-IND           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           SIDE-SWIPE-SAME           MISC, OTHER	12 PM 11 AM 7 AM 5 PM 5 PM 11 AM 6 PM 5 PM 5 PM 5 PM 6 PM 5 PM 6 PM 8 AM	с	WET WET SNOW WET WET WET	DAY DARK DARK DARK	Y		¥ ¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 57 58 59 60 61 62 63 64 64 65 66 66 67 68 69 70 71 72 73 74 75 76 77 77 77 77 79	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH25 LW9GH27W LW9ZNNC LW9GH5N CML184F80L CML184F80L CML184F80C CML19K1MM2C CML19K1MM2C CML19K1MM51 CML19K1MM51 CML19K1MM51 CML19K1MF51 LW92MF6 CML184F83 CML19CKF1	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/20/2019 11/8/2020 8/31/2021 8/31/2021 8/31/2021 8/31/2021 5/2/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 6 PM 5 PM 4 PM 4 PM 7 PM 6 PM 7 PM 8 AM	C 1	WET WET SNOW WET WET WET	DAY DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 57 58 59 60 61 62 63 64 65 65 66 65 66 65 66 67 70 71 72 73 74 75 76 77 78 80	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH25 LW9GH2V LW9GH5N CML184F80L CML184F80L CML184F80L CML184F80L CML184F80C CML184F80C CML184F80C CML184F80C CML184F80C CML19KMM61 CML19GS8V LW9BRT4 LW92MF6 CML184F883 CML19QKF1	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 5/20/2018 5/20/2019 12/2/2019 12/2/2019 12/2/2019 12/2/2019 13/31/2016 4/5/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PM 11 AM 7 AM 5 PM 4 PM 11 AM 6 PM 6 PM 4 PM 7 PM 3 PM 7 PM 5 PM 8 AM	с	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		Υ Υ Υ	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 57 57 58 59 60 61 62 63 64 65 66 63 64 65 66 67 70 71 72 73 74 75 75 76 77 78 79 80	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>8</sub>	LW96H25 LW96H27W LW97NC LW96H5N CML184F80L CML184F80L CML194F80C CML197LT72 CML194F80C CML197LT72 CML194F80C CML194F80C CML194F80 CML196XF1 LW99RT4 LW99RT4 LW99RT4 LW99RT4 LW99RT4 LW99RT4 LW99RT4	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/2/2019 11/8/2020 8/31/2020 8/31/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 5 PM 5 PM 4 PM 4 PM 3 PM 5 PM 4 PM 5 PM 4 PM 7 PM 7 PM 8 AM	с , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Υ		¥ ¥	Hydroplaned-wet road S8L-signal NB signal
52 52 53 54 55 55 57 58 59 60 61 62 63 64 65 66 66 66 66 67 70 71 72 73 74 75 76 77 77 78 80 81	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	LW9GH25 LW9GH2V LW9GH5N CML34F80L CML34F80L CML34F80L CML34F80L CML34F80L CML38F80L CML38F80L CML38F80C CML3825 CML39KMM1C CML3825 CML39KM61 CML382876 CML38F83 CML38F83 CML38F83 CML38F83 CML38F83 CML38F83 CML38F83 CML38F83 CML39KF1	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/2/2019 13/1/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PPM 7 AAM 5 PPM 4 PPM 4 PPM 5 PPM 6 PPM 4 PPM 5 PPM 7 PPM 5 PPM 8 AAM	с , , , , , , , , , , , , , , , , , , ,	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 56 57 58 59 60 61 62 63 64 62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 59	SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H25 LW96H5N CML184F80L CML184F80L CML184F80L CML197TM2 CML197TM2 CML197TM2 CML198TM4 CML198T4 LW98R74 LW98R74 LW98R74 LW98R74 LW98R74 LW98R74 LW98R74 LW98R74 LW98R74	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 12/26/2018 5/20/2019 11/2/2016 8/31/2020 8/31/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER	12 PPM 7 AM 5 PPM 4 PPA 4 PPA 4 PPM 4 PPM 4 PPM 9 PPM 9 PPM 5 PPM 5 PPM 5 PPM 6 PPM 6 PPM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Y		Y Y Y	Hydroplaned-wet road 581signal NB signal
52 52 53 54 55 56 57 58 59 60 61 62 63 64 65 62 63 64 65 66 66 67 70 71 72 73 74 75 76 77 77 78 79 80 80 81 82 83	SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub>	LW9GH25 LW9GH27 LW9GH50 LW9GH5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F83 CML194F83 CML194F83 CML194F83 CML194F83	5/26/2016 6/1/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 17/2/2019 1/18/2020 5/3/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPE-SAME SIDE SWIPE-SAME SIDE SWIPE-SAME SIDE SWIPE-SAME	12 PM 17 AM 5 PM 5 PM 5 PM 5 PM 5 PM 6 PM 6 PM 6 PM 7 PM 8 AM	с с с 8	WET WET SNOW WET WET WET	DAY DARK DARK DARK	¥		Y Y Y	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 56 57 58 59 60 61 62 63 64 62 63 66 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 283 84	SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML19	5/26/2016 6/1/2016 10/11/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 11/2/2019 11/2/2019 11/2/2019 3/31/2016 4/5/2016 12/1/2019 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER	12 PPM 7 AM 5 PPM 4 PPA 4 PPA 4 PPM 4 PPM 4 PPM 6 PPM 6 PPM 6 PPM 6 PPM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 56 57 58 59 60 60 61 62 63 64 65 65 66 65 66 67 68 65 70 71 72 73 74 77 75 76 77 79 80 81 82 83 84 85	SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F80L CML194F883 C	5/26/2016 6/1/2016 6/17/2016 6/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPE SAME SIDE SWIPE SAME SIDE SWIPE SAME SIDE SWIPE SAME	12 PM 17 AM 5 PM 4 PM 4 PM 4 PM 5 PM 5 PM 7 PM 8 AM 8 AM	С	WET WET SNOW WET WET	DAY DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 55 57 58 59 60 61 62 63 64 65 66 67 70 71 71 72 73 74 75 76 77 77 78 80 81 82 83 84 85	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>8</sub>	LW96H25 LW96H27W LW92NNC LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80S CML195F80S CML195F80S CML195F80S CML195F80S CML195F80S CML195F80S	5/26/2016 6/1/2016 10/11/2016 12/1/2017 5/20/2018 12/27/2018 5/20/2019 11/2/2019 11/2/2019 11/2/2019 11/2/2019 11/2/2016 12/2/2016 12/2/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER	12 PPM 7 AM 5 PM 4 PPA 4 PPA 4 PPM 4 PPM 6 PM 9 PM 6 PM 6 PM 6 PM 6 SPM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 56 60 61 62 63 64 65 66 63 64 65 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C C	5/26/2016 6/1/2016 6/17/2016 9/17/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 11/18/2020 4/3/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 17 AM 5 PM 4 PM 4 PM 4 PM 5 PM 5 PM 7 PM 6 PM 7 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 56 57 58 59 60 61 62 63 64 63 64 65 66 63 64 65 66 67 70 71 72 73 74 75 80 81 82 83 84 85 88 84 88	SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C C	5/26/2016 6/1/2016 10/11/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 11/18/2020 8/31/2020 8/31/2020 8/31/2020 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER MISC OTHER	12 PPM 7 AM 5 PM 4 PPM 5 PM 4 PPM 6 PM 6 PM 6 PM 6 PM 6 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK	¥		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 59 60 61 62 63 64 65 66 66 66 66 66 67 70 71 72 73 74 75 76 77 77 79 80 81 82 83 84 85 86 87 88 86 87 88 86 87	SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H27W LW92NNC LW92NNC CML184F80L CML184F80L CML184F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML1	5/26/2016 6/17/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/20/2019 11/8/2020 8/31/2020 3/31/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 17 AM 5 PM 4 PM 4 PM 4 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5	C 1	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 55 60 61 62 62 63 64 62 63 64 65 66 67 68 67 70 71 71 72 73 74 75 76 77 77 80 80 81 82 83 84 85 86 85 86 87 88 88 88 87 87 80 80 87 80 80 81 82 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C CML195F80C CML194F80C C	5/26/2016 6/17/2016 10/17/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2019 11/18/2020 3/31/2016 6/18/2020 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC. OTHER MISC. OTHER	12 PP/M 7 AM 5 PM 4 PP/M 5 PM 4 PP/M 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	С	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Υ		Å	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 55 59 60 61 62 63 64 65 66 66 66 66 66 67 70 71 72 73 73 74 75 76 77 77 78 80 79 80 81 82 83 84 85 85 85 89 90	SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H27W LW82NNC LW96H5N CML134F80L CML134F80L CML134F80C	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/2020 3/31/2018 3/31/2018 3/31/2016 6/18/2020 5/2/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PM 11 AM 5 PM 4 PA 5 PM 4 PA 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 55 55 55 55 55 55 55 55 55 55 60 61 62 63 64 62 63 64 65 66 67 68 67 70 71 72 73 74 75 78 79 80 81 82 83 84 88 88 89 90 91	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H2V LW82NNC LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C CML195F80C CML194F80C C	5/26/2016 6/17/2016 10/17/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2016 17/2/2016 6/18/2020 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC. OTHER MISC. OTHER	12 PP/M 7 AM 5 PM 4 PP/M 5 PM 4 PP/M 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	С	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 54 55 55 55 58 59 60 61 62 63 64 65 66 67 76 77 73 74 73 77 73 74 75 76 77 78 80 81 82 83 84 85 88 88 99 90 92	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>4</sub>	LW9GH25 LW9GH27 LW8ZNNC LW8ZNNC LW8ZNNC CML184F80L CML184F80L CML184F80C CML19K1MM1C CML19K1MM1C CML19K1MM1C CML19K1MM1C CML19K1MM1C CML19K1MM1 CML19K1MM1 CML19K1MM1 CML19QKF1	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/2020 9/31/2020 8/31/2020 8/31/2020 9/31/2021 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PM 17 AM 5 PM 4 PA 5 PM 4 PA 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK DARK	¥		¥ ¥	Hydroplaned-wet road S8L-signal NB signal
52 52 53 55 55 55 55 58 59 60 61 62 63 64 63 64 65 66 67 68 66 67 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 89 90 91 92 93	SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub>	LW96H25 LW96H2V LW82NNC LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML1	5/26/2016 6/1/2016 10/11/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2016 12/1/2016 6/18/2020 6/18/2020	REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND REAR-IND SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME	12 PP/M 7 AM 5 PM 4 PP/M 6 PM 4 PP/M 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	С	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 55 55 55 55 58 59 60 61 62 63 64 65 66 67 66 67 67 77 77 73 73 77 77 78 80 77 77 78 81 82 83 84 88 88 88 88 89 90 91 92 93 94	SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H25 LW97NC LW96H5N CML184F80L CML184F80L CML184F80L CML184F80C CML197XMMC CML197XMMC CML197XMM61 CML197XMM61 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF6 CML197XMF7	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 12/2/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/2/2019 5/3/2016 6/18/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PM 7 AM 5 PM 4 PA 5 PM 4 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK DAY	¥		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 52 53 55 55 55 55 57 58 59 60 61 62 63 64 65 66 64 65 66 67 70 71 72 73 74 75 78 79 80 81 82 83 84 85 88 88 89 90 91 92 93 94 94	SB <sub>5</sub> SB <sub>3</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H2W LW82NNC LW96H5N CML184F80L CML184F80L CML194F80L CML194F80C CML195F80C CML194F80C C	5/26/2016 6/1/2016 6/17/2016 10/17/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2019 11/18/2020 3/31/2016 6/18/2020	REAR-IND REA	12 PM 17 AM 5 PM 5 PM 5 PM 5 PM 6 PM 6 PM 6 PM 7 PM 8 AM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	¥		A A	Hydroplaned-wet road SBL-signal NB signal
52 53 53 54 55 55 55 57 57 57 57 57 68 60 61 62 63 64 65 66 66 67 68 69 70 71 77 73 74 77 73 74 77 73 74 75 80 81 83 83 84 83 88 88 89 90 90 91 92 93 94 95 94 95	SB <sub>4</sub> SB <sub>3</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>7</sub> M <sub>8</sub>	LW9GH25 LW9GH2V LW9GH5N CML184F80L CML184F80L CML184F80L CML184F80C CML19GXM1C CML19GXM1C CML19GXM1C CML19GXM1 CML19GXM1 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM6 CML19GXM1 CML19	5/26/2016 6/1/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 12/27/2018 5/20/2019 11/2/2019 11/2/2019 3/31/2016 6/18/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER	12 PPM 7 AM 5 PPM 4 PPM 4 PPM 4 PPM 4 PPM 5 PPM 5 PPM 5 PPM 5 PPM 6 PPM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	¥		¥ ¥	Hydroplaned-wet road
52 52 53 55 55 55 55 57 58 59 60 60 61 62 63 64 63 64 65 66 63 64 65 66 70 71 71 72 73 74 75 73 74 75 80 81 82 83 84 83 84 85 85 90 91 92 93 94 95 95 95	SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>8</sub>	LW96H25 LW96H2V LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C C	5/26/2016 6/1/2016 6/17/2016 10/17/2016 2/1/2017 5/20/2018 12/28/2018 12/28/2018 12/28/2018 12/28/2018 12/27/2018 12/27/2018 12/2/2019 11/12/2016 13/2/2016 6/18/2020	REAR-IND REA	12 PM 17 AM 5 PM 4 PM 4 PM 4 PM 5 PM 5 PM 7 PM 8 AM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 P	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 53 53 54 55 56 57 57 57 58 59 60 61 62 63 64 65 66 66 67 68 67 77 78 70 71 72 73 74 73 74 75 76 77 78 80 81 82 83 84 85 88 88 89 90 91 92 93 94 95 95 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	SB <sub>4</sub> SB <sub>3</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H27W LW97H2W LW97H5N CML184F80L CML184F80L CML194F80L CML194F80C CML194F80C CML194F80C CML194F80C CML194F80C CML194F80 CML19	5/26/2016 6/1/2016 10/11/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 11/2/2019 11/2/2019 11/2/2019 3/31/2016 4/31/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PPM 7 AM 5 PM 4 PPM 4 PPM 4 PPM 4 PPM 4 PPM 9 PM 9 PM 5 PM 5 PM 5 PM 6 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK DAY	¥		¥ Y Y	Hydroplaned-wet road
52 53 53 55 54 55 56 60 61 62 63 64 65 66 67 68 66 67 68 68 67 70 71 72 73 73 74 75 76 80 81 81 82 83 84 85 85 90 91 92 93 94 95 96 97 97 98	SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub>	LW96H25 LW96H27W LW92NNC LW92NNC CML184F80L CML184F80L CML194F80L CML194F80C	5/26/2016 6/17/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 5/20/2019 11/8/2020 8/31/2020 3/31/2016 6/18/2020 5/3/2016 6/18/2020	REAR-IND REA	12 PM 17 AM 5 PM 4 PM 4 PM 4 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5	С	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK DAY	Y		¥ ¥	Hydroplaned-wet road SBL-signal NB signal
52 53 53 54 55 56 60 61 62 63 64 65 66 66 67 68 67 68 67 70 71 73 74 73 74 75 76 77 78 80 79 80 81 82 83 84 85 88 88 89 99 91 92 93 94 99 99	SB <sub>4</sub> SB <sub>5</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>4</sub>	LW96H25 LW96H27W LW96H27W LW96H5N CML184F80L CML184F80L CML184F80L CML194F80L CML194F80L CML194F80L CML194F80S CML194F80S CML194F80S CML194F80 CML	5/26/2016 6/1/2016 10/11/2016 2/1/2017 5/20/2018 12/27/2018 5/20/2019 11/18/2020 8/31/2020 8/31/2020 3/31/2016 6/18/2020 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME MISC OTHER MISC OTHER	12 PP/M 7 AM 5 PM 4 P/M 5 PM 4 P/M 6 PM 9 PM 6 PM 7 PM 5 PM 8 AM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DAY	¥		¥ ¥	Hydroplaned-wet road
52 53 53 55 54 55 56 60 61 62 63 64 65 66 67 70 73 73 73 73 73 74 75 76 77 78 80 81 82 83 84 83 84 85 86 87 99 91 92 93 94 95 99 99 100	SB <sub>4</sub> SB <sub>3</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>4</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub> M <sub>8</sub>	LW96H25 LW96H25 LW82NNC LW82NNC LW82NNC CML184F80L CML184F80L CML184F80C CML196XMM1C CML196X8F80 CML196X8F8 CML196X8F8 CML196X8F1 LW92NF6 CML184F83 CML184F83 CML184F83 CML184F83 CML184F83 CML190KF1	5/26/2016 6/1/2016 6/17/2016 10/12/2016 2/1/2017 5/20/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/27/2018 12/2/2019 11/2/2020 8/31/2020 3/31/2016 6/18/2020 5/3/2016 6/18/2020	REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND REAREND SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME SIDE SWIPESAME	12 PM 17 AM 5 PM 4 PA 5 PM 4 PM 5 PM 5 PM 5 PM 5 PM 5 PM 5 PM 8 AM	C	WET WET SNOW WET WET WET	DAY DARK DARK DARK DARK DARK	¥		¥ ¥	Hydroplaned-wet road SBL-signal NB signal

# **A2.6 Intersection Collision Diagram**



MON	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	MON	3
TUE	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	TUE	5
WED	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	0	0	0	0	0	WED	5
THU	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	THU	5
FRI	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	FRI	4
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	SAT	1
SUN	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	1	0	0	0	0	0	0	0	1	1	1	0	5	1	2	4	4	1	3	2	0	1	0	0	0	тот.	27

**Corresponds to Collision Diagram** 

Location:	Milwaukee Street & Pontiac Drive
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal



Fr To	om: ):			1/1/2016 12/31/2020			TRAFF	C ANAL	ition	DESIG	N, INC.		
AA	ADT:			13.600				5	Ye	ars			
Ar	ea T	ype:		Urban				0	Mo	onth	ıs		
Ref #	Label	Doc. #	Date	Crash Type	Time	Severity	Road Cond.	Light Cond.	Alc. Flag	Drug Flag	Speed Flag	Notes	
101													
102													
103													
104													
105													
106													
107													
100													
110													
111													
112													
112													

Ref						Road	Light	Alc.	Drug	Speed		Ref
#	Label	Doc. #	Date Cr	ash Type	Time Severity	Cond.	Cond.	Flag	Flag	Flag	Notes	#
2	EB <sub>2</sub>	LW92MG5	5/3/2019 8/25/2016	RT-ANGLE REAR-END	2 PM B						EB ran red-tree	101
3	EBs	CML18QXVVS	10/28/2018	REAR-END	6 PM		DARK					102
4	EBs	CML18F2LD6	1/15/2019	REAR-END	8 AM							104
6	EB6 EB6	LW95L8V	6/28/2016 7/1/2016	SIDE-SWIPE-SAME SIDE-SWIPE-SAME	3 PM 9 AM C						Changing lanes Passing	105
7	EB10	LW8ZNNT	7/12/2016	DRIVEWAY-RELATED	12 AM A		DARK			Y	NB-EBT	107
8	EB <sub>10</sub>	CML179QKW3	11/13/2017	DRIVEWAY-RELATED	3 PM						Waved thru traffic	108
10	EBd	CML19RSSHT	11/5/2018	DRIVEWAY-RELATED	3 PM C	WET	DARK				NBL-EBT	109
11	Mw	LWC72P3	7/10/2016	MISC. OTHER	6 PM			Y			WB SSS W Leg	111
12	WB1	CML19KMM51	9/26/2019	LT-ANGLE	4 PM B						Signal unknown	112
14	NB <sub>2</sub>	CML19N3P3L	3/9/2019	RT-ANGLE	9 PM K		DARK	Y	Y		EB ran red-tree	113
15	NB <sub>2</sub>	CML1BMQKSR	11/25/2020	RT-ANGLE	6 PM		DARK				NB ran red	115
16	NBs NBs	CML1C22XW2	5/14/2017	REAR-END	12 PM C						Shoe stuck on brake	116
18	NBs	CML18JRP90	10/16/2018	SIDE-SWIPE-SAME	4 PM						changing lancs	118
19	NB <sub>10</sub>	CML18JRPFB	1/29/2020	DRIVEWAY-RELATED	12 PM						EB-SBL	119
20	NB <sup>a</sup> SBa	CML17BZLW8	2/6/2017	DRIVEWAY-RELATED	1 PM 7 PM	SNOW	DARK			v	Sun glare	120
22	SB <sub>2</sub>	CML18F2KTD	6/25/2017	RT-ANGLE	2 PM B	511011	brutt			·	WBR improper turn	122
23	SB <sub>2</sub>	CML19QKRFG	10/8/2020	RT-ANGLE	12 PM						WB ran red	123
24	SB10 SB <sup>d</sup>	CML1855W5K CML17BZLX2	5/26/2017	DRIVEWAY-RELATED	3 PM 12 PM	WET					SBT-backing WB-SBT	124
26	SB <sup>d</sup>	CML18QXVS4	1/24/2018	DRIVEWAY-RELATED	10 AM	WET					SB rear S Leg	126
27	SB <sup>d</sup>	CML1B9V8WH	8/28/2019	DRIVEWAY-RELATED	7 PM						SB rear S Leg	127
28 29												128
30												130
31												131
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66 67												166
68												168
69												169
/0 71												170
72												172
73												173
/4 75												1/4
76												176
77												177
78 79												1/8
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# **A2.7 Intersection Collision Diagram**



																											DELO
DAY/	TIME T	REND	5																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT
MON	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	MON	3
TUE	0	0	0	0	0	0	0	1	0	0	1	2	0	0	1	1	0	0	0	0	1	0	0	0	0	TUE	7
WED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	WED	4
THU	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1	2	1	0	2	0	0	0	0	0	0	THU	9
FRI	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	1	0	1	1	0	0	2	0	0	0	FRI	9
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	SAT	3
SUN	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	1	0	SUN	6
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT
тот.	1	0	0	0	1	0	0	1	0	2	1	3	4	1	4	4	3	3	3	2	3	2	1	2	0	тот.	41

TR		DI s & DESIGN, INF	)
IK	AFFIC ANALISIS	a DESIGN, IN	

Location:	USH 51 & Kellogg Avenu	e	From:	1/1/2016	TRAFFIC A	NALYSIS & DESIGN, INC.	
Municipality:	City of Janesville		To:	12/31/2020		Duration	
County:	Rock		AADT:	17,200	5	5 Years	
Traffic Control:	Traffic Signal		Area Type:	Urban	(	) Months	
Ref		Road Light Alc Drug Speed	Bef		Road Li	ight Alc Drug Speed	

H	Label	Dec #	Data	Crach Turno	Time	Couoritu	Cond	Cond	Elag	Elag	Flag	Notor
Ŧ	Laber	DOC. #	Date	crash Type	Time	Sevenity	cond.	cona.	Flag	Flag	Flag	Notes
	50	CN/14026270	5/17/2016	RT-ANGLE	10 AM							
2	ED2	CIVIL1B2G270	3/12/2019	RT-ANGLE	8 PM			DARK				EB ran red
3	EB4	CMLIBDBC4H	2/7/2020	RI-IURN REAR-END	2 PM	_						
4	EBs	LW95L82	1/15/2016	REAR-END	5 PM	С		DARK			Y	
5	EBs	CML19426N6	2/2/2017	REAR-END	3 PM		WET					
5	EBs	CML19N3PFT	9/3/2019	REAR-END	3 PM							
7	EBs	CML1B000K8	11/8/2018	SIDE-SWIPE-SAME	4 PM			DARK				
В	EBd	CML18L0QG5	4/13/2019	DRIVEWAY-RELATED	8 PM			DARK				EB rear
9	WB <sub>2</sub>	LWC72P8	7/22/2016	RT-ANGLE	6 PM							
10	WB <sub>3</sub>	CML0XVN049	4/19/2019	PEDESTRIAN	9 PM	В		DARK				Bike in crosswalk
11	WB <sub>5</sub>	CML1B7D6PP	4/5/2019	REAR-END	12 PM							
12	WB6	CML1BMQKSD	10/9/2020	SIDE-SWIPE-SAME	9 AM							
13	WB <sub>2</sub>	CML19RSSKL	7/25/2019	FIXED-OBJECT	9 AM							
14	WB10	LW9L60H	1/5/2016	DRIVEWAY-RELATED	7 AM			DAY				WB-SB
15	WB10	LW9HZC8	7/23/2016	DRIVEWAY-RELATED	10 PM		WET	DARK				WB-SB
16	WB10	CML18QXVNS	5/1/2017	DRIVEWAY-RELATED	12 PM	с	WET					WBL-WBT thru traffic
17	WB10	CML10FKD7J	2/9/2018	DRIVEWAY-RELATED	3 PM	c	SNOW					FBI thru traffic
18	WB10	CML19RSSH2	9/7/2018	DRIVEWAY-RELATED	9 PM	-		DARK				FBI-WBT
10	WR	CMI18E2LCO	12/6/2018	DRIVEWAY RELATED	6 DM			Drutt				CD. W/D
1.9	WB	CMI 18IRPCX	0/12/2010	DRIVE WAT-REDATED	2 014							SD-WD
20	14/D	CMI 1 BRM7 BY	9/12/2019	DRIVEWAT-RELATED	5 PIVI	<i>c</i>						MOD from loft in
22	ui	CML17MLVRF	10/29/2013		7.014	C C		DARK			v	WD errored Cl
22	ND	CMI 1994EUI	10/29/2017	HEAD-ON	7 PIVI		611011/	DARK				WB Clossed CL
23	ND0	CML1884FHL	1/23/2019	PEDESTRIAN	8 PM		SNOW	DARK				WBR-Ped in cross
24	NB <sub>1</sub>	CML189CGGH	6/9/201/	LI-ANGLE	2 PM							
25	NB <sub>1</sub>	CMLIB9V90R	8/11/2020	L1-ANGLE	11 AM							
26	NB <sub>2</sub>	CMLIBUUUKZ	8/26/2018	RT-ANGLE	11 AM	С						NB ran red
27	NB <sub>2</sub>	CML19KMM5Z	1/2/2020	RT-ANGLE	2 PM	В						EB ran red
28	NB <sub>5</sub>	CML189CGG6	5/3/2017	REAR-END	5 PM	в						
29	NB <sub>5</sub>	CML188M7RG	7/22/2019	REAR-END	12 PM							
30	NB <sub>9</sub>	CML19QKRCT	9/1/2019	FIXED-OBJECT	12 AM			DARK	Y			
31	NB <sub>9</sub>	CML1BGSFBL	9/28/2019	FIXED-OBJECT	11 PM			DARK	Y			
32	NB <sup>d</sup>	CML185NC4H	4/23/2017	DRIVEWAY-RELATED	4 PM	В						EBL-NBT rear
33	NB <sup>d</sup>	CML1884FCC	6/22/2017	DRIVEWAY-RELATED	1 PM							WBL-NBT
34	NB <sup>d</sup>	CML1BSNQ7V	11/2/2020	DRIVEWAY-RELATED	4 PM	в						WBL-NBT
35	SB1	LW9VBF3	9/7/2016	LT-ANGLE	7 PM		WET	DARK				
36	SB2	LW9JPLT	10/5/2016	RT-ANGLE	5 PM	в						SB ran red
37	SB2	CML192T5KL	7/6/2017	RT-ANGLE	6 PM	с						WBR-WBT
38	SB2	CML19426R4	12/24/2017	RT-ANGLE	12 PM	в	SNOW				Y	SB slid into Int
39	SBs	LW9H75J	4/28/2016	REAR-END	4 AM		WET	DARK				Backing
10	SBs	CML1B7D6PL	3/12/2019	REAR-END	2 PM	c						
11	SB <sub>9</sub>	CML19V8VPH	11/11/2018	EIXED-OBJECT	11 PM	-		DARK				
12			,,									
*2 12												
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100												

ef									Road	Light	Alc.	Drug	Speed		
01	Label	Doc	. #	Date	Cras	h Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes	
02															
03 04															
05															
07															
08 09															
10															
11 12															
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## **A2.8 Intersection Collision Diagram**



тот.	2	0	2	0	3	1	0	2	2	0	1	0	2	3	2	3	1	2	1	0	1	0	0	0	0	тот.	28
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
SUN	1	0	2	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	SUN	8
SAT	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	SAT	3
FRI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	FRI	2
THU	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	THU	6
WED	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	WED	3
TUE	0	0	0	0	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	TUE	4
MON	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	MON	2

TF	RAFFIC ANALYSIS	& DESIGN, INC	
	AFFIC ANALISIS	a DESIGN, INC	

L	oca	tio	n:	(	Court Street 8	& Main Stre	et					From:		1/1/2016			TRAFFI	C ANALY	SIS & DE	SIGN, INC.	
Ν	lun	nicir	ality:	(	City of Janesy	rille						To:		12/31/2020				Dura	tion		
					Dock							A A DT.		12.050					Vee		
<u> </u>	oui	nty:			ROCK							AADT:		12,950				5	real	s.	
Т	raf	fic (	Control:	-	Traffic Signal							Area Type:		Urban				0	Mor	nths	
Re #	f I əł	hal D	oc #	Date (	rach Tune	Time Severity	Road	Light	Alc.	Drug Speed	Notes	Ref	Date	Crash Type	Time	Soverity	Road	Light	Alc. D	rug Speed	Notes
1	EB;	2 CI	ML18JRP3N	2/7/2017	RT-ANGLE	4 AM C	WET	DARK	Tiug	105 1105	SB FTY-Flash red	101	Dute	crush type	c	Sevency	cond.	cond.	1105 11	05 1105	Hotes
2	EB;	2 CI	ML1884FBN	2/21/2017	RT-ANGLE	4 AM	WET	DARK			SB ran flash red	102									
3	EB; FB-	2 CI	ML18JRP6M RI 07GNOBT	5/26/2019	RT-ANGLE RT-ANGLE	2 AM		DARK	Y		SB FTY-Flash red	103									
5	EB,	• CI	ML19QKRC9	6/19/2019	RT-TURN REAR-END	12 PM	WET	DAIK			Stop for Ped	105									
6	EB;	s Cl	ML184FB0V	2/21/2017	REAR-END	1 PM A					Motorcycle	106									
7	EB	s L\		3/17/2016	SIDE-SWIPE-SAME	12 PM		DADK			Semi wide right turn	107									
9	WE	3 <sub>2</sub> CI	ML19KIVIIVISF ML19V8VN3	3/3/2019	RT-ANGLE	12 AM		DARK	Y		NBR-WB wrong way	108									
10	WE	36 CI	ML19T1TLP	10/29/2018	SIDE-SWIPE-SAME	7 AM					WBT from Lt lane	110									
11	NB	1 CI	ML1B9V8WS	9/23/2019	LT-ANGLE	3 PM					NBL on yellow	111									
12	NB	2 LV	N9H74B N9MNGW	3/1/2016	RT-ANGLE RT-ANGLE	3 PM A	SNOW	DAY		v	NB ran red	112									
14	NB	- 2 LV	W9MNM9	11/23/2016	RT-ANGLE	8 AM	WET				NBR-EBT	114									
15	NB	2 CI	ML17MLVNH	3/23/2017	RT-ANGLE	4 PM B					NB ran red	115									
16	NB	2 CI	ML19426P5	6/8/2017	RT-ANGLE	10 AM		DADK			NB ran red	116									
18	NB	2 CI	ML19RSSGW	8/19/2018	RT-ANGLE	5 PM		DAIK			NB ran red	118									
19	NB	2 CI	ML0XVN03H	11/18/2018	RT-ANGLE	4 AM		DARK			NB ran flash red	119									
20	NB	2 CI	ML19LVN43	2/13/2019	RT-ANGLE	5 AM C	WET	DAY			NB ran flash red	120									
21	NB	2 CI	ML19QKRDP	3/8/2020	RT-ANGLE	12 AM		DARK			EB ran red	121									
23	NB	2 CI	ML1BFKDC2	12/26/2020	RT-ANGLE	1 PM B					NB ran red	123									
24	NB	6 CI	ML19KMLZ9	8/5/2018	SIDE-SWIPE-SAME	2 PM					NBT from Rt lane	124									
25	SB1		M9FQPB ML1C22XWV	8/4/2016	IT-ANGLE	8 AM 8 PM		DAY			SB Park S Leg	125									
27	SB	5 CI	ML1B8M7RP	9/12/2019	REAR-END	3 PM C						127									
28	SB:	s CI	ML1B2G299	2/6/2020	REAR-END	1 PM						128									
29												129									
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# **A2.9 Intersection Collision Diagram**



DAY/	TIME T	REND	5																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2	1	2	0	0	0	0	0	1	0	MON	9
TUE	0	0	0	0	0	0	0	0	0	3	1	2	1	1	0	1	0	1	1	0	0	2	0	0	0	TUE	13
WED	0	0	0	0	0	0	1	1	0	0	1	1	0	1	1	1	2	2	0	2	0	0	0	0	0	WED	13
THU	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	1	1	2	0	0	0	0	0	0	тни	8
FRI	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	1	2	1	2	3	0	0	0	0	0	FRI	13
SAT	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	2	0	0	0	1	1	1	0	0	0	SAT	8
SUN	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	0	0	1	1	1	6	4	7	1	6	4	8	6	7	5	6	1	3	0	1	0	тот.	68

TRAFFIC ANALYSIS & DESIGN, INC.
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Location:	S	STH 26 & Mem	norial	Drive	2					F	rom:		1/1/2016			TRAFF	IC ANALY	SIS & DESIGN, INC.	
Municipality:	C	City of Janesvi	lle							Т	o:		12/31/2020				Dura	tion	
County:	F	Rock								Α	ADT:		22,700				5	Years	
Traffic Control:	I	Traffic Signal								Α	rea Type:		Urban				0	Months	
Ref					Road	Light	Alc. Dru	ug Speed		Re	f					Road	Light	Alc. Drug Speed	
# Label Doc. # Dat	te Ci	rash Type	Time	Severity	Cond.	Cond.	Flag Flag	g Flag	Notes	#	Label Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag Flag Flag	Notes
1 EB1 LW943TG	6/3/2016	LT-ANGLE	3 PM	в						101	L								

2	EB1	LW943TH	6/9/2016	LT-ANGLE	6 PM	WFT			
3	EB1	LW92MGK	10/3/2016	LT-ANGLE	9 AM				
4	EB <sub>2</sub>	CML18F2KS5	3/7/2017	RT-ANGLE	10 AM				
5	EB <sub>2</sub>	CMI 19T1TKX	6/10/2018	RT-ANGLE	11 AM	WET			FBI Improper turn
6	EB.	CMI 19426XC	2/26/2010	PT ANGLE	0 PM C		DARK		SB ran rod
7	FR.	CMI 19I VN4S	4/10/2019	PT. ANGLE	2 DM		DANK		Soranieu
, ,	FR.	CML18EKD8V	1/27/2020	PT-ANGLE	11 DM	W/FT	DARK	v	SP ran rod
0	FR.	CML120GSEW	0/4/2010	DEDEETDIAN	7 PM C	WLI	DARK		Dillo ansinct linkt
10	50	13/04274	9/4/2019		7 PIVI C		DARK		DIKE - against light
10	50	10000122	4/1/2018	REAR-END	6 Pivi				
11	EB5	LW9GH32	6/9/2016	REAR-END	11 AM	WEI			
12	CD5	LW91L65	//23/2016	REAR-END	3 PM				
13	EB5	LW9IVINLG	9/30/2016	REAR-END	7 PM		DARK		
14	EB <sub>5</sub>	LW9MNLK	10/6/2016	REAR-END	6 PM				
15	EBs	LW9MNLQ	10/11/2016	REAR-END	11 AM				
16	EB <sub>5</sub>	CML18F2LBW	10/3/2018	REAR-END	10 AM				
17	EBs	CML1BFKD97	2/27/2020	REAR-END	9 AM				
18	EBs	LW9GH2H	5/17/2016	SIDE-SWIPE-SAME	6 PM				
19	EB <sub>2</sub>	CML17MLVN1	1/9/2017	FIXED-OBJECT	5 PM	SNOW	DARK		
20	Mw	CML18F2LF8	4/16/2019	MISC. OTHER	12 PM				2 Backing out drive
21	WB <sub>2</sub>	CML19LVN1L	7/31/2018	RT-ANGLE	9 AM				
22	WB <sub>5</sub>	LW9PW3H	12/6/2016	REAR-END	9 PM C		DARK		
23	WB <sub>5</sub>	CML11R2KSG	4/26/2019	REAR-END	2 PM				
24	WB <sub>9</sub>	CML18TDXWM	4/29/2020	FIXED-OBJECT	1 PM	WET		Y	
25	WB10	CML17GNQ7P	6/7/2017	DRIVEWAY-RELATED	5 PM				Backing out drive
26	NB1	CML19426RX	2/3/2018	LT-ANGLE	8 PM	SNOW	DARK	Y	
27	NB1	CML19V8VNV	8/17/2018	LT-ANGLE	4 PM				
28	NB1	CML1BFKD72	9/4/2019	LT-ANGLE	5 PM		Y		
29	NB1	CML1B9V91J	10/22/2020	LT-ANGLE	4 PM	WET			
30	NB <sub>2</sub>	LW9MNHF	4/6/2016	RT-ANGLE	7 AM	WET			
31	NB <sub>5</sub>	CML18F2KZL	3/27/2018	REAR-END	5 PM				
32	NBs	CML18F2LDH	1/27/2019	REAR-END	10 AM	ICE			
33	NB <sub>5</sub>	CML18L0QFF	1/28/2019	REAR-END	5 PM	SNOW		Y	
34	NBs	CML179QKVL	9/25/2017	SIDE-SWIPE-SAME	1 PM				
35	NBs	CML08NGSFQ	1/5/2018	SIDE-SWIPE-SAME	11 AM				
36	NB <sub>6</sub>	CML1C22XZ0	9/5/2018	SIDE-SWIPF-SAME	4 PM	WFT			
37	NB <sub>6</sub>	CML1B3P3B6	12/25/2018	SIDE-SWIPE-SAME	9 AM				
38	NB-	CML18L00GT	7/10/2010	SIDE-SWIPE-SAME	4 PM				
20	NBue	CMI 19I VN2R	11/9/2019	DRIVEWAY RELATED	5 PM		DARK		Packing out drive
40	SR.	CML1BEKD70	11/6/2018		J PIVI	WET	DARK		backing out unive
40	SB.	LWC72NW	6/14/2019	PT-ANGLE	11 AM	VVEI	DARK		
41	502		12/10/2016		11 AW	SNOW	DARK	Y	
42	504	LW92NINC	12/10/2016	RT-TURN REAR-END	7 PIVI 2 DM	SINUW	DARK	1	
45	505	LW90IIIS	4/19/2016	REAR-END	S PIVI	WEI	DAY		
44	505		8/17/2018	REAR-END	6 AIVI B	VVEI	DAT		
45	505		9/2/2016	REAR-END	1 PM			v	
46	205	Charlen Charle	12/31/2016	REAR-END	10 AM			Ť	
4/	SB <sub>5</sub>	CML18368VZ	2/14/201/	REAR-END	9 AM C				Slow on green
48	5B5	CML18F2KW6	10/9/2017	REAR-END	3 PM C				Slow on green
49	SBs	CML1884FD8	12/30/2017	REAR-END	1 PM				
50	SBs	CML18F2KXD	12/30/2017	REAR-END	3 PM C	SNOW			
C1	SBs	CML19426SR	4/24/2018	REAR-END	1 PM C				
51				REAR-END					
52	SBs	CML19LVN1R	8/9/2018	NEMIX END	8 AM				
52 53	SBs SBs	CML19LVN1R CML18F2LBV	8/9/2018 9/28/2018	REAR-END	8 AM 4 PM				
52 53 54	SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4	8/9/2018 9/28/2018 10/5/2018	REAR-END REAR-END	8 AM 4 PM 6 PM		DAY		
52 53 54 55	SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5	8/9/2018 9/28/2018 10/5/2018 10/5/2018	REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM		DAY DARK		
52 53 54 55 56	SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019	REAR-END REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM 2 PM	WET	DAY DARK		
51 52 53 54 55 56 57	SBs SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019	REAR-END REAR-END REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM	WET	DAY DARK		
52 53 54 55 56 57 58	SBs SBs SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18JRPDZ	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM	WET	DAY DARK		
52 53 54 55 56 57 58 59	SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18JRPDZ CML18JRPFG	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019 2/6/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM	WET	DAY DARK		
51 52 53 54 55 56 57 58 59 60	SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18JRPFG CML18JRPFG CML18LC3B67	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019 2/6/2020 11/6/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM	WET	DAY DARK DARK		
51 52 53 54 55 56 57 58 59 60 61	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18JRPDZ CML18JRPG CML18C3B67 CML18QXVQ8	8/9/2018 9/28/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019 2/6/2020 11/6/2020 9/1/2017	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM	WET	DAY DARK DARK	Ŷ	
51 52 53 54 55 56 57 58 59 60 61 62	SBs	CML19LVN1R CML18F2LBV CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18JRPDZ CML18JRPFG CML18C3867 CML18QXVQ8 CML18Q2Q86	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM	WET	DAY DARK DARK	¥	
51 52 53 54 55 56 57 58 59 60 61 62 63	SBs	CML19LVN1R CML18F2L64 CML18F2LC4 CML18F2LC5 CML0XVN03Z CML18F2LF6 CML18F2LF6 CML18F2F6 CML18C3B67 CML18QXVQ8 CML182G286 CML18F2K5N	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 4/8/2017	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 1 PM C	WET	DAY DARK DARK	Ŷ	SB rear 5 Leg
51 52 53 54 55 56 57 58 59 60 61 62 63 64	SBs           SBd           SBd      SBd	CML19LVN1R CML1872L6V CML1872L64 CML1872L65 CML0XVN032 CML1872L66 CML181RPD2 CML181RPD2 CML181RPD5 CML182G86 CML182C286 CML182C285 CML182C285 CML182C285 CML182C285	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2016	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAV-RELATED DRIVEWAV-RELATED	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 1 PM C 9 AM	WET	DAY DARK DARK	Ŷ	SB rear S Leg SB cross CL
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	SBs           SBd           Hŋ           Hŋ	CML19/LVN1R CML1872L8V CML1872L64 CML1872LC5 CML1872LC5 CML1872LC5 CML1872L76 CML1872L76 CML1872L76 CML1872L76 CML1872B67 CML182G286 CML1872K5N LW90DTQ CML1874B93	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2019	REAR-END           REAR-END           REAR-END           REAR-END           REAR-END           REAR-END           REAR-END           REAR-END           SIDE-SWIPE-SAME           DIDE-SWIPE-SAME           DRIVEWAY-RELATED           HEAD-ON	8 AM 4 PM 6 PM 7 PM 2 PM 2 PM 3 PM 5 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C	WET	DAY DARK DARK DARK	Ŷ	S8 rear S Leg S8 cross CL Cross CL-Snowr coart
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	SBs           SBs      SBs	CML1921VN1R CML18721C4 CML18721C4 CML18721C5 CML0X7N032 CML18721C5 CML18721C6 CML1818PPG CML1818PFG CML1820246 CML1820246 CML1822286 CML1822286 CML18272SN LW900TQ CML184F893 LW908C2	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2016 1/28/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C	WET SNOW SNOW	DAY DARK DARK DARK	Y Y Y	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 57	SBs           SBs      SBs	CML19/LVN1R CML13F2LBV CML13F2LDV CML13F2LC3 CML13F2LC5 CML13F2LC5 CML13F2LC6 CML13F2LC6 CML13F2LC6 CML13F2C6 CML13F2C7 CML13F2C5 CML13F	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 12/23/2019 2/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2019 12/26/2016	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME DRIVEWAR-RELATED HEAD-ON HEAD-ON MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C	WET SNOW SNOW	DAY DARK DARK DARK	Y Y Y	SB rear 5 Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 58	SBs           SBs      SBs	CML19/LW1R CML18F2L64 CML18F2L64 CML18F2L65 CML18F2L65 CML18F2L6 CML18F7L6 CML18F7L6 CML18F7L6 CML18C3867 CML18C3286 CML18F2K5N LW90DTQ CML18F2K5N LW92B0TQ LW92K62 LW92K62 LW92K62	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 1/23/2019 2/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2016 1/28/2019 12/16/2016 12/17/2016	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	Y Y Y Y	58 rear 5 Leg 58 cross CL Cross CL-Snowy road EBL-signal EBL-signal
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	SBs           SBs      SBs	CML19/LVNIR CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872C8 CML1872C8 CML1872S8 CML1872S8 CML1872S8 LW90PG2 LW90PG2 LW92VBG2 LW92VBG2 CML1865FCS	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 1/23/2019 2/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2016 1/28/2019 12/16/2016 12/17/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED DRIVEWAY-RELATED DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	Y Y Y Y	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 69 70	SBs           SBs      SBs	CML19/LVNIR CML1972L6V CML1972L6V CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A CML1972L6A LW90DTQ CML1972L6A LW90DTQ CML1972L6A LW90DTQ CML1972L6A LW90DTQ CML1972L6A LW92DR6A CML1965FCS	8/9/2018 9/28/2018 10/5/2018 10/5/2018 11/5/2019 1//33/2019 2/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2016 12/1/2019 12/16/2016 12/17/2016	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥	S8 rear S Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 66 66 67 68 69 70 71	SBs           SBs      SBs	CML192/UN1R CML1972L62 CML1972L63 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972K5N CML1972K5N CML1972K5N LW92DFQ CML1972K5N LW92DFQ LW92NRK CML1965FC5	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1//23/2019 12/23/2019 12/23/2019 2/6/2020 9/1/2017 10/21/2019 4/8/2017 5/8/2019 12/16/2016 12/17/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 111 AM 2 PM 3 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	Y Y Y Y	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-sinow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML19/LVNIR CML1972L07 CML1972L07 CML1972L05 CML1972L05 CML1972L05 CML1972L05 CML1972C CML197	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2018 4/10/2019 4/10/2019 9/1/2017 10/21/2019 4/8/2017 5/8/2019 1/2/8/2019 1/2/6/2016 1/28/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 1 PM C 9 PM 4 PM C 2 PM 2 PM 11 AM	WET SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥ ¥	58 rear 5 Leg 58 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 67 68 97 71 72 72	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VN1R CML1972L0 CML1972LC5	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/2/2019 2/6/2020 2/6/2020 2/6/2020 11/6/2020 9/1/2011 5/8/2016 12/8/2019 12/26/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME NISE-OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 3 PM 7 PM 7 PM 9 AM 4 PM C 9 AM 4 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	A A A A	S8 rear S Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VN1R CML1972L05	8/9/2018 9/28/2018 10/5/2018 10/5/2018 1/23/2019 12/23/2019 2/6/2020 11/6/2020 11/6/2020 11/2/2017 10/21/2019 12/16/2019 12/16/2019 12/16/2016 1/28/2019 22/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED DRIVEWAY-RELATED DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	А А А А	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 27	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VNIR CML1972LBV CML1972LC5	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/2/2019 4/10/2019 2/6/2020 11/6/2020 9/1/2011 9/1/2011 5/8/2019 1/28/2019 12/26/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	Å Å Å	S8 rear S Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal EBL-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 67 68 69 70 71 72 73 74 75	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML192/UN18 CML1972L0 CML1972L5 CML1972L5 CML1972L5 CML1972L5 CML1972L5 CML1972L5 CML1972 CML1	8/9/2018 9/92/2018 10/5/2018 11/5/2018 11/2/2018 11/2/2019 12/2/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 12/2/2020 12/2/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 3 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 9 PM 1 1 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY	Y Y Y Y	SB rear 5 Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-snow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72 73 74 75 76	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VN1R CML1872L62 CML1872L63 CML1872L63 CML1872L65 CML18872L66 CML18872L66 CML18872L66 CML18872L66 CML1827268 CML1826286 CML1826286 CML1826286 CML1827258 UW90VBG2 LW90VBG2 LW92VB	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 1/2/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 12/16/2020 12/16/2016 12/17/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DORIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 7 PM 7 PM 2 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	Y Y Y Y	S8 rear S Leg S8 cross CL Cross CL-Sonowy road E8L-signal E8L-signal E8L-sinow, ice mound
51 52 53 54 55 56 57 58 59 60 61 62 63 64 63 64 65 66 67 68 69 70 71 71 72 73 74 75 76 77	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VN1R CML1972L0 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972C5 CML19	8/9/2018 9/28/2018 10/5/2018 11/5/2018 11/23/2019 4/10/2019 2/6/2020 2/6/2020 11/6/2020 9/1/2017 9/1/2017 5/8/2016 1/28/2019 2/8/2016 1/28/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DIVEWAY-RELATED HEAD-ON MISC OTHER MISC OTHER MISC OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY	A A A A	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-snow, ice mound
52 52 53 54 55 56 57 58 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72 73 74 75 76 77 78	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VN1R CML1972L62 CML1972L63 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972L65 CML1972C7 CML197	8/9/2018 9/92/2018 10/5/2018 10/5/2018 1/23/2019 4/10/2019 12/23/2019 12/23/2019 12/23/2019 12/23/2019 12/23/2019 12/23/2019 12/25/2019 12/25/2019 12/25/2019 12/25/2019 12/25/2019 12/25/2019	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC. OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 3 PM 1 PM C 9 PM 4 PM C 2 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	А А А А	SR rear S Leg SB cross CL Cross CL-Sonwy road EBL-signal EBL-signal EBL-snow, ice mound
52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 2	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VNIR CML1972L0 CML1972LC5	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2018 11/5/2020 2/6/2020 11/6/2020 9/1/2011 10/21/2019 2/6/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DAY	¥ ¥ ¥	S8 rear S Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
52 52 53 54 55 55 55 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 77 77 78 79 80	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921UVNIR CML1872L62 CML1872L63 CML1872L63 CML1872L65 CML1872L65 CML1872L65 CML1872L65 CML1872L65 CML1872C7 CML1972C7 CML19	8/9/2018 9/92/2018 10/5/2018 11/5/2018 11/2/2019 12/2/2020 11/2/2020 11/2/2020 10/21/2019 10/21/2019 10/21/2019 10/21/2019 12/21/2016 12/17/2016 22/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 3 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	А А А А А	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-sinow, ice mound
52 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 65 66 66 67 68 69 70 71 72 73 74 75 76 77 80 80	SBs SBs SBs SBs SBs SBs SBs SBs SBs SBs	CML1921VNIR CML1972LBV CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC7	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 1/2/2019 2/6/2020 11/6/2020 9/1/2017 5/8/2016 1/2/5/2019 1/2/5/2019 1/2/5/2019 1/2/5/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	А А А А	58 rear 5 Leg 58 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-sinow, ice mound
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52 52 53 54 55 57 57 58 59 60 61 62 63 64 65 66 64 65 66 67 68 69 70 71 72 73 74 75 76 77 77 78 79 80 81 82 83	585 585 585 585 585 585 585 585 585 586 586	CML1921VNIR CML1972LBV CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC7	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 11/5/2019 11/2/2019 11/6/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 12/2016 12/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DORIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 7 PM 7 PM 0 PM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥ ¥	58 rear 5 Leg 58 ross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
52 52 53 54 55 56 57 58 59 60 61 62 63 64 63 64 65 66 64 65 66 70 71 72 73 74 75 76 77 77 78 80 81 82 83 84	585 585 585 585 585 585 585 585 585 585	CML1921VNIR CML1972L05 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972C7 CML1	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/2/2019 2/6/2020 2/6/2020 2/6/2020 11/6/2020 9/1/2017 5/8/2016 12/8/2019 12/16/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC OTHER MISC OTHER MISC OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	SNOW SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥	S8 rear S Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-sinow, ice mound
52 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 66 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 83 83	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML1921UV12R CML1872L62 CML1872L63 CML1872L63 CML1872L65 CML1872L65 CML1872L65 CML1872L66 CML1872L66 CML1872L67 CML1872K5N LW30DTQ CML1872K5N LW30DTQ CML1872K5N LW30DTQ CML1847893 LW32NRK CML18G5FC5	8/9/2018 9/92/2018 10/5/2018 10/5/2018 11/27/2018 11/27/2019 21/27/2019 21/27/2019 11/27/2019 11/27/2019 11/27/2019 12/27/2019 12/27/2019 12/27/2016 22/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AM 4 PM 6 PM 7 PM 2 PM 3 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	А А А А А	S8 rear S Leg S8 cross CL Cross CL-Sowy road E8L-signal E8L-signal E8L-snow, ice mound
52 52 53 54 55 57 57 58 59 60 61 62 63 64 65 66 66 66 66 66 66 67 68 69 70 71 72 73 74 75 76 77 77 78 79 80 81 82 83 84 58	SB <sub>8</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>0</sub> M <sub>4</sub> M <sub>4</sub> M <sub>4</sub>	CML1921VNIR CML1972L05 CML1972LC5	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 11/2/2019 2/6/2020 11/6/2020 9/1/2011 9/1/2011 5/8/2018 12/8/2019 12/16/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 3 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	SNOW SNOW SNOW	DAY DARK DARK DAY DAY	¥ ¥ ¥	S8 rear 5 Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
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52 52 53 54 55 56 57 58 59 60 61 62 63 64 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 88	SB <sub>8</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>4</sub> M <sub>4</sub>	CML1921VNIR CML1972L0 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC6 CML1972LC6 CML1972LC7	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/3/2019 4/10/2019 22/6/2020 11/6/2020 9/1/2017 5/8/2016 12/2/3/2019 12/2/6/2016 22/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 3 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	A A A A A	58 rear 5 Leg 58 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-sinow, ice mound
52 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 67 66 67 68 70 71 71 72 73 74 75 76 70 71 73 74 88 81 82 83 84 85 88 89	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> Mn M <sub>4</sub> M <sub>4</sub>	CML19/LVNIR CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872L6 CML1872SN CML1872SN LW90DTQ CML1872SN LW90DTQ CML1872SN LW90TQ CML1875S	8/9/2018 9/92/2018 9/92/2018 10/5/2018 11/5/2018 11/2/2020 11/6/2020 11/6/2020 11/6/2020 11/6/2020 9/1/2017 5/8/2016 12/8/2019 12/2/6/2016 12/8/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC OTHER MISC OTHER MISC OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET	DAY DARK DARK DAY DARK	A A A A A A A A	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-sinow, ice mound
52 52 53 54 55 56 57 58 59 60 61 62 63 64 63 64 63 64 63 64 63 64 63 64 67 70 71 72 73 74 80 81 82 83 83 84 83 83 84 83 83 84 83 83 84 83 84 83 83 84 83 83 84 83 84 83 84 83 84 83 84 83 84 83 84 84 85 84 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>10</sub> M <sub>1</sub> M <sub>1</sub>	CML1921VNIR CML1972LBV CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC7	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/3/2019 2/6/2020 11/6/2020 9/1/2017 5/8/2016 12/8/2019 12/6/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DORIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥ ¥	58 rear 5 Leg 58 ross CL Cross CL-Snowy road EBL-signal EBL-snow, ice mound EBL-snow, ice mound
52 52 53 54 55 55 56 57 58 60 61 63 64 65 66 66 67 68 67 68 67 68 67 71 72 73 74 75 76 77 77 78 79 80 81 82 83 83 84 85 85 85 99 90	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>8</sub> M <sub>8</sub> M <sub>8</sub>	CML1921VNIR CML1972L05 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972LC5 CML1972C5 CML1	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/2/2019 2/6/2020 2/6/2020 11/6/2020 9/1/2017 5/8/2016 12/8/2019 12/2/5/2016 12/8/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC OTHER MISC OTHER MISC OTHER MISC OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 7 PM 2 PM 0 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	SNOW SNOW SNOW	DAY DARK DARK DAY DAY	Y Y Y Y	SB rear S Leg SB cross CL Cross CL-Snowy road E61-signal E81-signal E81-snow, ice mound
52 52 53 54 55 56 57 58 60 61 62 63 64 65 66 66 66 66 67 68 66 67 68 69 71 71 72 73 73 73 73 73 73 73 73 80 81 82 83 84 82 83 84 85 89 90 91 92	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>8</sub> SB <sub>8</sub> M <sub>10</sub> M <sub>4</sub> M <sub>4</sub>	CML197LBV CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC6 CML1872LC6 CML1872LC6 CML1872LC6 CML1872LC7 CML1972LC7 C	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 1/2/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 12/16/2020 11/6/2020 11/6/2020 12/16/2016 12/17/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 3 PM 7 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM 11 AM	WET	DAY DARK DARK DAY DARK	А А А А	S8 rear S Leg S8 cross CL Cross CL-Sowy road E8L-signal E8L-signal E8L-snow, ice mound
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52 52 53 54 55 55 56 57 58 59 60 61 62 63 64 66 67 68 67 68 70 71 72 73 74 75 70 70 71 72 73 74 70 70 71 72 73 80 81 82 83 84 83 84 83 84 85 85 87 90 91 92 93 94 97 93 94 97	SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>5</sub> SB <sub>6</sub> SB <sub>6</sub> SB <sub>6</sub> M <sub>4</sub> M <sub>4</sub> M <sub>4</sub>	CML192/LVNIR CML1972L6 CML	8/92018 9/82/018 10/5/018 11/5/018 11/5/018 11/2/019 2/6/020 11/6/020 9/1/2017 5/8/0016 12/2/019 12/2/016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 9 AM 4 PM C 2 PM C 9 PM 11 AM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥	58 rear 5 Leg 58 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
52 52 53 54 55 55 55 56 57 60 61 61 62 63 64 65 66 67 67 70 70 71 72 73 73 72 73 74 75 76 80 70 71 72 73 81 82 83 84 83 84 83 84 83 84 85 85 55 55 55 55 55 55 55 55 55 55 55	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML19/LVNIR CML1972L62 CML1972L63 CML1972L63 CML1972L65	8/9/2018 9/82/018 10/5/2018 11/5/2018 11/2/2019 2/6/2020 2/6/2020 11/6/2020 9/1/2017 5/8/2016 12/8/2019 12/5/2016 12/8/2019 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME MISC OTHER MISC OTHER MISC OTHER MISC OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DAY DARK	¥ ¥ ¥ Y	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-snow, ice mound
52 52 53 54 55 55 55 57 60 61 62 63 64 63 64 63 66 66 66 67 68 69 71 72 73 74 73 74 75 77 78 79 80 81 82 83 84 83 84 83 84 83 84 85 89 90 91 92 92 93 92 95 95 95 85 85 85 85 85 85 80 80 80 80 80 80 80 80 80 80 80 80 80	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML1921UVILR CML1972LBV CML1972LC5 CML1972LC5 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC6 CML1972LC7 CML1972LC	8/9/2018 9/98/2018 10/5/2018 11/5/2018 11/5/2018 11/2/2019 2/6/2020 11/6/2020 9/1/2017 10/21/2019 9/1/2017 10/21/2019 12/6/2020 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 5 PM 7 PM 7 PM 7 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DARK	¥ ¥ ¥ ¥	SB rear S Leg SB cross CL Cross CL-Snowy road EBL-signal EBL-signal EBL-snow, ice mound
52 52 53 54 55 55 55 57 60 61 61 62 63 66 66 66 66 66 67 67 70 71 72 73 74 75 76 77 77 78 79 80 81 82 88 89 90 91 92 93 93 94 95 93 95 93 95 93 95 93 95 93 95 93 95 93 95 93 95 95 95 95 95 95 95 95 95 95 95 95 95	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML192/LVNIR CML1972L62 CML1972L63 CML1972L63 CML1972L65 CML1972L6	8/9/2018 9/82/018 10/5/2018 11/5/2018 11/5/2018 11/2/2029 2/6/7020 11/6/2020 9/1/2011 5/8/2016 12/8/2019 12/16/2016 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAR-RELATED HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 9 AM 4 PM C 2 PM C 9 AM 4 PM C 9 PM 11 AM	SNOW SNOW SNOW	DAY DARK DARK DAY DAY	¥ ¥ ¥	S8 rear 5 Leg S8 cross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound
52 52 53 55 55 55 55 58 59 60 61 62 63 64 63 64 65 66 64 63 64 65 66 70 71 71 72 73 74 73 74 73 74 73 74 73 80 81 82 83 84 83 84 85 83 84 89 90 91 92 93 94 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML197LBV CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872LC5 CML1872SN CML1	8/9/2018 9/28/2018 10/5/2018 11/5/2018 11/27/2019 2/6/2020 11/6/2020 11/6/2020 9/1/2017 10/21/2019 2/6/2020 2/6/2020 11/6/2020 2/6/2020 2/6/2020 2/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 1 PM C 9 AM 4 PM C 9 PM 11 AM 1 PM C 9 PM 11 AM	WET	DAY DARK DARK DAY DARK	¥ ¥ ¥	SB rear S Leg SB cross CL Cross CL-Sowy road EBL-signal EBL-signal EBL-snow, ice mound
52 52 53 55 55 55 55 55 55 56 57 58 59 61 62 63 64 65 66 67 68 67 68 67 70 71 72 73 74 70 71 72 73 74 80 70 71 72 73 74 80 81 81 82 83 84 85 84 85 80 90 91 92 93 94 95 95 95 95 95 95 95 95 95 95 95 95 95	58, 58, 58, 58, 58, 58, 58, 58, 58, 58,	CML192/LVNIR CML1972L6 CML	8/9/2018 9/88/2018 10/5/2018 11/5/2018 11/3/2019 12/23/2019 22/6/2020 11/6/2020 9/1/2011 9/1/2011 12/21/2016 22/9/2020	REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END REAR-END SIDE-SWIPE-SAME SIDE-SWIPE-SAME DRIVEWAY-RELATED HEAD-ON HEAD-ON MISC. OTHER MISC. OTHER MISC. OTHER MISC. OTHER	8 AAM 4 PM 6 PM 7 PM 2 PM 11 AM 2 PM 3 PM 7 PM 3 PM 7 PM 3 PM 1 PM C 9 AM 4 PM C 2 PM C 9 PM 11 AM 11 AM	WET SNOW SNOW SNOW	DAY DARK DARK DARK	¥ ¥ ¥ ¥	58 rear 5 Leg 58 ross CL Cross CL-Snowy road E8L-signal E8L-signal E8L-snow, ice mound

Ref #	Label	Doc #	Date	Crash Type	Time	Severity	Road	Light	Alc. Flag	Drug Flag	Speed	Notes
101	Laber	000.#	Date	стази туре	Time	Jeventy	conu.	cond.	Tidg	Tiag	Tidg	Notes
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## **A2.10 Intersection Collision Diagram**



			-																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	2	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	MON	6
TUE	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	2	1	0	0	0	1	0	0	0	TUE	7
WED	0	0	1	0	0	0	0	0	0	1	0	1	1	2	0	1	0	0	1	1	0	0	0	0	0	WED	9
THU	0	0	0	0	0	0	0	3	0	1	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	THU	8
FRI	0	0	0	0	0	1	0	0	0	0	0	0	2	2	0	2	0	3	1	0	0	0	0	0	0	FRI	11
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	SAT	3
SUN	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	SUN	2
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	1	0	0	1	0	5	3	2	2	2	6	5	1	4	2	7	2	1	0	1	1	0	0	тот.	46

TRAFFIC ANALYSIS & DESIGN IN

	A	D	)
TR	AFFIC ANALYSIS	& DESIGN, INC	

Location:	USH 14 & Kennedy Road	From:	1/1/2016 TR	AFFIC ANAL	YSIS & DESIGN, INC.
Municipality:	City of Janesville	То:	12/31/2020	Dura	ation
County:	Rock	AADT:	26,950	5	Years
Traffic Control:	Traffic Signal	Area Type:	Urban	0	Months

# 1	Labei	Doc. #	Date				C	C	<b>C</b> 1			Al - +
1	FR.	CMI086WD70	1/2/2019	DT TUDN DEAD END	Time :	Severity	cond.	cond.	Flag	Flag	Flag	Notes
	EBa	CML180XVVR	10/24/2018	RT-TURN REAR-END	6 PM							
3	EB4	CML19KMM3R	6/25/2019	RT-TURN REAR-END	5 PM							
1	EB4	CML1BDBC6F	8/3/2020	RT-TURN REAR-END	12 PM							
;	EBs	LW9GH73	12/18/2016	RFAR-FND	12 PM		SNOW				Y	
	EBs	CML19N3P51	8/28/2018	REAR-END	3 PM (	с	WET				Y	
	EBs	CML19N3PHJ	1/17/2020	REAR-END	1 PM							RR arm came do
3	EBs	CML1B9V91S	11/16/2020	REAR-END	12 PM							
,	EBs	CML1B9V921	12/7/2020	REAR-END	7 AM							
0	EB6	LW9VBFF	10/19/2016	SIDE-SWIPE-SAME	7 PM			DARK				
1	EB <sub>2</sub>	LW9QM9R	8/30/2016	FIXED-OBJECT	4 PM		WET					
2	WB1	LW9GH48	7/21/2016	LT-ANGLE	5 PM 1	в						On yellow-red
3	WB1	LW95L9D	8/11/2016	LT-ANGLE	7 AM							
4	WB1	LW9H788	12/28/2016	LT-ANGLE	1 PM	в						View obscured
.5	WB1	CML184FB1F	3/28/2017	LT-ANGLE	8 AM (	с						WB FTY
6	WB1	CML18S5WTT	9/8/2017	LT-ANGLE	12 PM							
.7	WB1	CML18F2LFN	6/5/2019	LT-ANGLE	3 PM							On yellow-red
18	WBs	CML184FB58	6/21/2018	REAR-END	2 PM		WET				γ	Semi roll back
19	WBs	CML189CGLR	6/22/2018	REAR-END	3 PM (	с	WET					
20	WBs	CML184FB5X	7/20/2018	REAR-END	5 PM		WET					
21	WBs	CML19LVN6R	11/30/2019	REAR-END	1 PM (	С	WET					Stopped for train
22	WB <sub>6</sub>	LW9GH10	3/1/2016	SIDE-SWIPE-SAME	9 PM		SNOW	DARK				
23	WΒ <sub>6</sub>	CML18QXVZK	1/15/2020	SIDE-SWIPE-SAME	9 AM		WET					
24	WB <sub>2</sub>	CML19N3P3T	3/22/2018	FIXED-OBJECT	7 AM							RR arm came do
25	WB <sub>9</sub>	CML133SSG1	7/9/2020	FIXED-OBJECT	7 AM							RR arm came do
26	Μ <sup>ε</sup>	CML18L0QCG	5/8/2018	MISC. OTHER	4 PM							SBL-NBR merge
27	NB <sub>1</sub>	LWC72PK	9/21/2016	LT-ANGLE	12 PM (	с	WET					NB FTY
28	NB <sub>1</sub>	LW9PW39	11/18/2016	LT-ANGLE	5 AM			DARK				
9	NB <sub>1</sub>	CML18L0Q8D	8/4/2017	LT-ANGLE	6 PM							
0	NB <sub>1</sub>	CML08HJN07	12/23/2017	LT-ANGLE	5 PM (	с		DARK				NB FTY
31	NB1	CML18JRP88	7/6/2018	LT-ANGLE	5 PM							WBL-EBR SSS
32	NB1	CML184FB91	1/25/2019	LT-ANGLE	5 PM		WET	DARK				
13	NB <sub>1</sub>	CML18QXVX3	3/26/2019	LT-ANGLE	8 AM							
4	NB <sub>2</sub>	LW9GH04	1/18/2016	RT-ANGLE	7 AM (	с						RR vehicle on tra
15	NB <sub>2</sub>	CML1BFKD78	10/6/2019	RT-ANGLE	8 AM				Y			
6	NB <sub>5</sub>	LW8ZNQ6	9/22/2016	REAR-END	5 PM							
17	NBs	CML19426RC	12/29/2017	REAR-END	3 PM		SNOW				Y	
8	NB <sub>5</sub>	CML19111L1	7/12/2018	REAR-END	9 AM							
9	NB <sub>2</sub>	CML19LVN76	1/9/2020	FIXED-OBJECT	10 AM		WET					RR arm came do
0	Mş	CML18F2K29	3/3/2018	MISC. OTHER	10 PM (	С		DARK				NB cross CL-SSO
1	SB <sub>1</sub>	LW9GH5S	10/24/2016	LT-ANGLE	10 AM	_						
12	5B2	CMIL19426NH	3/6/201/	RI-ANGLE	11 AM (	C	WEI					WB ran red
13	5B2	CMIL19KMLX2	5/16/2018	RI-ANGLE	11 AM (	C						WB ran red
4	586	CMIL184FBBB	4/5/2019	SIDE-SWIPE-SAME	1 PM							
		CMI 1000CEO										
15	5B <sub>9</sub>	CML1BDBC5Q	6/12/2020	FIXED-OBJECT	12 PM			0.4.01/				Margaret Street
15 16 17 18 19 50 51 52 53	P <sub>x</sub>	CML18DBC5Q CML184FB5N	7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
15 16 17 18 19 50 51 52 53 54 55 56	58 <sub>9</sub> P <sub>x</sub>	CML18DBC5Q CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
15 16 17 18 19 60 61 52 53 53 54 55 56 66 57	P <sub>x</sub>	CML18DBC5Q CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
15 17 18 19 50 51 52 53 53 54 55 56 66 57 58 58	589 Px	CML18DBC5Q CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
15 16 17 18 19 50 51 52 53 55 56 55 56 57 58 59 50	P <sub>x</sub>	CML18DBC5Q CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
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15 16 17 18 19 50 51 52 53 54 55 56 66 57 58 59 50 51 53 55 56 57 56 57 56 57 56 57 56 57 57 57 57 57 57 57 57 57 57	P <sub>x</sub>	CML18DBCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
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15 16 17 18 19 50 51 52 53 54 55 56 57 58 59 50 51 52 53 55 56 57 58 59 50 51 52 53 55 56 57 56 57 56 57 56 57 56 57 57 57 57 57 57 57 57 57 57	Р <sub>х</sub>	CML180BCSQ CML184FB5N	b/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
15 16 17 18 19 50 51 52 53 54 55 56 57 58 59 50 51 52 53 55 56 57 56 57 56 57 56 57 56 57 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 56 56 56 56 56 56 56 56	Р <sub>х</sub>	CML18DBCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		Y		Wrong way-Ped
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15 16 17 18 19 50 51 52 53 54 55 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 56 56 57 56 56 56 56 56 56 56 56 56 56	Р <sub>х</sub>	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	B		DARK		¥ 		Wrong way-Ped
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15 16 17 18 19 50 51 52 53 54 55 56 57 58 59 50 51 52 53 54 55 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 57 56 56 57 56 56 57 56 56 57 56 56 57 56 56 56 56 56 56 56 56 56 56	569 Px	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Ŷ		Wrong way-Ped
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 6 7 8 9 1 2 3 4 5 6 6 7 8 9 1 2 3 4 4 5 5 6 6 7 8 8 9 1 2 3 6 6 7 8 8 9 1 1 2 3 6 6 7 7 8 8 9 1 1 2 3 8 9 1 1 2 3 8 9 1 1 2 1 3 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	569 Px	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 1 2 3 4 5 6 6 7 8 9 1 2 3 4 5 5 6 6 7 7 8 9 1 2 3 4 4 5 5 6 6 7 7 8 9 1 5 5 6 6 7 7 8 9 1 5 5 6 6 7 7 8 9 1 5 5 6 6 7 7 8 9 1 5 5 6 6 7 7 8 9 1 1 5 5 6 6 7 7 8 9 1 1 5 5 6 6 7 7 8 8 9 1 1 5 5 6 6 7 7 8 8 9 1 1 5 6 6 7 7 7 8 8 9 1 1 1 5 6 6 7 7 7 8 8 9 1 1 7 7 8 8 9 1 1 7 7 8 8 9 1 1 7 7 8 8 9 1 1 7 7 8 8 9 1 7 7 8 8 9 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 9 7 7 7 8 8 8 9 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8	589 Px	CML18DBCSQ CML184FB5N	b/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y		Wrong way-Ped
5 6 7 8 9 9 0 1 2 3 3 4 5 6 6 7 8 8 9 0 0 1 2 2 3 6 0 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 0 0 1 2 2 3 3 4 4 5 5 6 6 0 1 2 2 3 3 6 7 7 8 9 9 9 0 0 1 2 2 3 3 6 7 7 7 8 9 9 9 9 9 0 0 1 2 2 3 3 6 7 7 7 8 9 9 9 9 0 0 1 2 2 3 3 6 7 7 7 8 8 9 9 9 0 0 1 1 2 2 3 3 6 7 7 7 8 8 9 9 9 0 0 1 1 2 2 3 3 6 7 7 7 8 8 9 9 9 0 0 1 1 2 2 5 5 6 6 7 7 7 8 8 9 9 9 0 0 1 1 2 7 7 8 8 9 9 0 0 1 1 2 7 7 8 8 8 9 9 9 0 0 1 1 2 7 7 8 8 8 9 9 0 0 1 1 1 2 7 7 8 8 8 9 9 0 0 1 1 2 7 7 8 8 8 9 9 0 0 1 1 2 7 7 8 8 8 9 9 0 0 1 1 1 2 7 7 8 8 9 9 9 0 0 1 1 2 7 7 8 8 9 9 0 0 1 1 1 2 7 7 8 8 8 9 9 0 0 1 1 2 7 7 8 8 8 9 9 9 0 0 1 1 2 7 7 8 8 8 9 9 9 0 1 1 2 7 7 8 8 8 9 9 9 9 0 1 1 1 2 7 7 8 8 9 9 9 10 1 1 2 7 7 8 8 9 9 9 9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2559 Px	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 1 2 3 6 7 8 9 0 0 1 1 2 3 6 6 7 7 8 9 9 0 1 1 2 3 6 6 7 7 8 9 9 0 1 1 2 3 6 6 7 7 8 9 9 0 0 1 1 2 3 6 6 7 7 8 9 9 0 0 1 1 2 3 6 6 7 7 8 9 0 0 1 1 2 3 6 6 7 7 8 9 0 0 1 1 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	2559 Px	CML18D8CSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
5 6 7 8 8 9 0 1 1 2 3 4 5 6 7 7 8 9 9 0 1 1 2 3 4 5 6 7 7 8 9 9 0 1 1 2 2 3 4 4 5 6 7 7 8 8 9 9 0 0 1 1 2 2 3 4 4 5 5 6 6 7 7 7 8 8 9 9 9 9 1 9 9 1 9 1 9 1 9 1 9 1 9 1	<u>Рх</u>	CML18DBCSQ CML184FB5N	6/1//020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
5 6 7 8 8 9 0 1 1 2 3 4 5 6 7 7 8 9 9 0 1 2 3 4 5 6 7 7 8 9 9 0 1 1 2 2 3 4 5 6 7 7 8 9 9 0 1 1 2 2 3 4 4 5 5 6 6 7 7 8 8 9 9 9 1 9 9 1 9 1 9 1 9 1 9 1 9 1 9	2850 P.x	CML180BCSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
15           16           17           18           19           50           51           52           53           54           55           56           57           58           59           50           53           54           55           56           57           58           59           50           51           52           53           56           57           58           59           50           51           52           53           54           55           56           57           58           59           70           71           72           73           74           75	Px	CML18D8CSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
15           16           17           18           19           50           51           52           53           56           57           53           56           57           53           54           55           56           57           53           54           55           56           57           58           59           70           71           72           73           74           75           76           77	589 Px	CML180BCSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
15           16           17           18           19           50           51           52           53           56           57           53           56           57           53           56           57           53           56           57           53           56           57           53           56           57           58           59           70           71           72           73           74           75           76           77	389 Px	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		¥		Wrong way-Ped
5 6 7 8 9 0 1 1 2 3 4 5 6 7 7 8 9 0 1 1 2 3 4 5 6 6 7 7 8 9 0 0 1 1 2 3 4 5 6 6 6 6 6 7 7 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 8 9 0 0 1 1 2 3 3 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	389 P.	CMLIBBBCSQ CMLIB4FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y		Wrong way-Ped
5 6 7 8 9 0 1 1 2 3 4 5 6 7 7 8 9 0 1 1 2 3 4 5 6 6 7 7 8 9 0 0 1 1 2 3 4 5 6 6 6 7 7 8 9 0 0 1 1 2 3 3 4 5 6 6 6 7 7 8 9 0 0 1 1 2 3 3 4 5 6 6 6 7 7 8 9 0 0 1 1 2 3 3 4 5 6 6 6 7 7 8 9 0 0 1 1 2 3 3 4 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	589 P.	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y		Wrong way-Ped
15           16           17           18           19           50           51           52           53           54           55           56           57           58           59           50           51           52           53           54           55           56           57           58           59           50           51           52           53           54           55           56           57           58           59           70           71           72           76           77           78           79           80           31	Ps	CMLIBBBCSQ CMLIB4FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y		Wrong way-Ped
15           16           17           18           19           50           51           52           53           54           55           56           57           58           59           50           51           52           53           54           55           56           57           58           59           70           71           72           73           76           77           78           79           800           31           32	989 98	CMLIBBBCSQ CMLIB4FB5N	5/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y Y		Wrong way-Ped
15           16           17           18           19           50           51           52           53           54           55           56           57           58           59           50           51           52           53           56           57           58           59           50           51           52           53           54           55           56           57           58           59           50           51           52           53           56           57           58           59           70           71           72           73           74           73           73           73           73           73           73	989 Ps	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15           16           17           18           19           50           51           52           53           54           55           56           57           53           56           57           53           56           57           58           59           50           51           52           53           56           57           58           59           50           51           52           53           54           55           56           57           58           59           70           71           72           73           74           75           76           73           73           73           73           73           73	P.	CML180BCSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y Y		Wrong way-Ped
15           16           17           18           19           31           32           33           34           35           36           37           38           39           30           31           32           33           34           35           36           37           38           39           70           71           72           73           74           75           76           77           78           79           30           31           32           33           34           35	9 Ps	CML180BCSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15           16           17           18           19           31           32           33           34           35           36           37           38           39           30           31           32           33           34           35           36           37           38           39           30           31           32           33           34           35           36           37           38           39           30           31           32           33           34	589 P.	CML180BCSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15         15           16         17           17         18           18         19           10         12           12         12           13         13           14         15           15         16           17         18           18         19           10         12           13         13           14         15           15         16           17         13           18         19           10         12           13         13           14         15           15         16           17         12           18         19           19         10           11         12           12         13           12         13           13         12           14         12           15         16           16         13           17         13	585 P.	CMLIBBECSQ CMLIBAFB5N	6/12/2020 7/4/2018	PEDESTRIAN	12 PM 2 AM 1	8		DARK		Y		Wrong way-Ped
15         15           16         17           18         18           19         10           11         12           12         12           13         14           15         16           17         18           18         19           19         10           11         12           12         13           13         13           14         15           15         16           17         18           18         19           10         11           12         13           14         15           15         16           17         18           18         11           12         13           13         14           15         15           16         17           18         14           19         14           10         14           11         12           13         14           15         16           17         <	383 P.	CMLIBBBCSQ CMLIBAFB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15         15           16         17           18         19           10         11           12         23           13         14           15         16           16         17           17         18           18         19           10         11           12         23           13         13           14         15           15         16           16         17           17         18           17         13           18         14           19         11           12         13           14         15           15         14           15         14           16         11           17         18           18         14           15         15	38 <sub>9</sub>	CML1808CSQ CML184FB5N	6/12/2020 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15         15           16         17           18         19           10         11           12         23           13         14           15         56           10         11           11         12           12         13           13         14           15         56           16         77           17         12           13         14           15         56           17         77           18         19           10         11           12         13           14         15           15         16           16         17           17         18           18         19           10         12           13         14           15         16           16         17           18         19           10         14           11         15           12         13           13         14           15         <	383 P.	CMLIBBBCSQ CMLIBAFBSN	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y Y		Wrong way-Ped
15         15           16         16           17         17           18         19           19         10           11         12           12         13           14         15           15         16           17         18           18         19           19         11           12         13           13         14           15         16           17         18           19         10           11         12           12         13           13         14           14         15           15         11           12         13           13         12           14         12           15         13           14         15           15         16           16         17           18         19           10         14	38 <sub>9</sub>	CML1808CSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15         15           16         16           17         17           18         19           19         10           11         12           12         13           14         15           15         16           16         17           17         18           18         11           12         13           14         15           15         16           17         18           18         19           11         12           12         13           14         15           15         16           16         11           17         12           18         19           19         10           11         12	385 P.	CMLIBBBCSQ CMLIB84FB5N	6/12/2020 7/4/2018	PEDESTRIAN		8		DARK		Y Y		Wrong way-Ped
IS         IS           IG         IG           IG         <	38 <sub>9</sub> P.	CMLIBBECSQ CMLIBAFB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
15         15           16         17           17         18           19         10           11         12           12         12           13         14           15         16           16         17           17         18           18         19           19         10           11         12           13         13           14         15           15         16           16         17           17         18           18         19           19         10           11         12           13         14           14         15           15         16           16         17           17         18           18         19           19         10           11         12           13         14	385 P.	CML1808CSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y Y		Wrong way-Ped
S         S           6         6           7         8           9         0           1         2           3         4           5         6           6         7           8         9           00         1           2         3           4         5           6         7           7         8           9         0           12         3           3         4           5         6           7         8           9         0           12         3           3         4           5         6           7         8           9         0           12         3           4         15           6         7           8         9           00         1           12         3           4         15           6         7           8         9           00         1           12 <td< td=""><td>385, P.</td><td>CML1808CSQ CML184FB5N</td><td>5/1//000 7/4/2018</td><td>PEDESTRIAN</td><td></td><td>8</td><td></td><td>DARK</td><td></td><td>Y</td><td></td><td>Wrong way-Ped</td></td<>	385, P.	CML1808CSQ CML184FB5N	5/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
S         5           6         6           7         8           9         0           1         2           3         4           5         6           6         7           8         9           0         1           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2	385	CML1808CSQ CML184FB5N	5/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y		Wrong way-Ped
S         S           6         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           9         0           1         2           3         4           5         6           7         8           90         1           12         2           3         4           5         6           7         8           90         1           12         2           3         4           5         6           7         8           90         1           12         3           4         5           6         7           8         9           11         2           2         3           4         5<	385, P.	CML1808CSQ CML184FB5N	6/1//000 7/4/2018	PEDESTRIAN		8		DARK		Y Y		Wrong way-Ped

Bof						Road	Light	Alc	Drug	Coord	
#	Label Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
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192 193											
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195 196											
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198 199											
200											

# **A2.11 Intersection Collision Diagram**



DAY/	ТІМЕ Т	REND	s																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	MON	3
TUE	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	1	0	0	0	0	0	0	0	0	TUE	6
WED	0	0	0	0	0	0	0	1	0	0	2	0	0	0	1	1	1	0	0	0	0	0	0	0	0	WED	6
THU	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	THU	1
FRI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	0	0	0	FRI	5
SAT	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SAT	2
SUN	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	1	0	1	1	1	0	3	1	1	3	3	4	4	0	1	1	1	1	0	0	0	тот.	27

Location:	USH 51/Parker Drive & STH 26/Centerway Street
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal

From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
To:	12/31/2020	Duration
AADT:	18,300	5 Years
Area Type:	Urban	0 Months

	Laper	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
	EB1	CML19426QG	10/25/2017	LT-ANGLE	4 PM	с						EB FTY
	EB1	CML19111PK CML1BSNQ79	8/26/2020	LT-ANGLE LT-ANGLE	1 PM 3 PM							
	EB2	CML0D7W13N	1/17/2018	RT-ANGLE	2 PM							
	EB <sub>5</sub>	CML1B3P3BG CML1B3P3C0	2/19/2019	REAR-END	2 PM							
	EBs	CML19T1TNV	9/3/2019	REAR-END	12 PM							
	EBd	CML184FBBH	4/15/2019	DRIVEWAY-RELATED	4 PM	С						EB rear
0	WB <sub>1</sub>	CML19111JV CML19426NC	3/5/2018	MISC. OTHER	6 PM 3 PM	в	SNOW			Y	Ŷ	Slid on snowy road WB FTY
1	WB <sub>2</sub>	CML18F2KRN	1/21/2017	RT-ANGLE	10 AM	С	WET					WB ran red
2	$WB_2$	CML18F2LDS	2/10/2019	RT-ANGLE	1 PM	С	SNOW				Y	WB slid into Int
3	WBs WBs	LW9H75R	5/25/2016	REAR-END	7 AM 3 PM		SNOW				v	
.5	WBs	LW9VBG5	12/23/2016	REAR-END	7 PM		SNOW	DARK			Y	
.6	$WB_{S}$	CML19RSSN3	6/28/2020	REAR-END	4 PM	С						Fell asleep
7	WB <sub>6</sub>	CML1B8M7VN	6/15/2020	SIDE-SWIPE-SAME	3 PM							
9	NB <sub>1</sub>	CML19426X8	2/26/2019	LT-ANGLE	4 PM	с	WET					On yellow
.0	NBs	CML133SSGC	8/24/2020	REAR-END	1 PM							
1	SB <sub>1</sub>	CML18L0QCW	6/10/2018	LT-ANGLE RT-ANGLE	8 AM		WET	DAY			v	WR clid thru Int
3	SB <sub>2</sub>	CML19N3P60	2/11/2018	RT-ANGLE RT-ANGLE	10 AM	в	WET	DAT			1	WB ran red
4	SB6	KRL125DXXN	3/9/2018	SIDE-SWIPE-SAME	9 PM			DARK	Y			
5	SBs	CML19N3PHN CML120GSGR	1/30/2020	SIDE-SWIPE-SAME	11 AM			DADK				501 (
7	P <sub>x</sub>	CML120030B CML18S5WTX	9/22/2019	PEDESTRIAN	4 AM 8 PM	A		DARK				SBT-Ped Mid block
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Ref #	Label	Doc. #	Date	Crash Type	Time	Severity	Road Cond.	Light Cond.	Alc. Flag	Drug Flag	Speed Flag	Notes	
101													
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106													
107													
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112 113													
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# **A2.12 Intersection Collision Diagram**



DAT	IIVIE I	RENDS	,																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	MON	4
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	TUE	3
WED	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	1	0	0	WED	5
THU	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	THU	3
FRI	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	FRI	4
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	SAT	1
SUN	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	1	0	0	1	3	0	0	0	4	4	0	4	2	3	0	1	0	0	1	0	0	тот.	24

	A	D	)
T	RAFFIC ANALYSIS	& DESIGN, INC	

Location:	Main Street & Racine Street
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal

From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
То:	12/31/2020	Duration
AADT:	13,200	5 Years
Area Type:	Urban	0 Months

Ref	Label	Doc #	Data	Crach Tuno	Time	Couoritu	Road	Light	Alc.	Drug	Speed	Notes	Ref
1	EB <sub>1</sub>	LW9H75N	5/4/2016	LT-ANGLE	7 PM	Sevency	cona.	conu.	1 lag	Tiag	Tidg	Notes	101
2	EB2	CML1884FBG	1/27/2017	RT-ANGLE	12 PM	В						SB ran red	102
3	EBs EB <sup>d</sup>	LW9H761 LW92MH4	7/7/2016	REAR-END DRIVEWAY-RELATED	3 PM 1 PM	1	WFT					FB rear F Leg	103
5	WB1	CML1BDBC6P	8/18/2020	LT-ANGLE	5 PM	B							105
6	WB <sub>4</sub>	CML19T1TR7	12/28/2020	RT-TURN REAR-END	8 AM		ICE				γ		106
8	WBs	CML18JRP75	10/26/2018	REAR-END REAR-END	4 PIVI 8 AM		SNOW						107
9	$WB_{5}$	CML1BC3B6V	12/17/2020	REAR-END	3 PM	1							109
10	WB <sub>6</sub>	CML18JRP8W	10/9/2018	SIDE-SWIPE-SAME	1 PM							Changing lanes	110
12	WBd	CML18F2LFF	5/1/2019	DRIVEWAY-RELATED	12 PM	I						SB-WBT	112
13	NBo	CML189CGLN	5/27/2018	PEDESTRIAN	1 PM	В						Bike in crosswalk	113
14	NB <sub>6</sub>	CML19RSSHR CML18QXVXF	4/29/2018	SIDE-SWIPE-SAME DRIVEWAY-RELATED	12 PM 4 PM		WET					NB wide right turn WB-NBT	114
16	NB <sub>10</sub>	CML1B8M7RS	10/4/2019	DRIVEWAY-RELATED	7 AM	1						WB-NBT	116
17	NB <sup>d</sup>	CML17GNQ9D	10/18/2017	DRIVEWAY-RELATED	5 PM							NB rear N Leg	117
18	SB1	CML1/GNQ/K CML1BW4SFM	9/28/2020	LT-ANGLE	10 PM 5 PM	I A I B	WET	DARK	Ŷ			SB fixed on S Leg WBL on yellow-red	118
20	SB <sub>2</sub>	CML121PTK8	12/21/2019	RT-ANGLE	1 PM	C						WB ran red	120
21	SBs SR.	CML19N3PFR	8/27/2019	REAR-END	3 PM							Rull aboad on groop	121
23	SB <sub>6</sub>	CML17GNQ99	10/12/2020	SIDE-SWIPE-SAME	12 P M	I	WET					SBL went straight	122
24	Mx	CML1B2G272	3/24/2019	MISC. OTHER	4 AM	1		DAY				SB signal Mid Int	124
25 26													125
27													127
28													128
29 30													129
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35													135
36 37													136
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43 44													143
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Ref						Road	Light	Alc.	Drug	Speed	
ŧ	Label Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
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# **A2.13 Intersection Collision Diagram**



DAY/	TIME T	RENDS	5																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	MON	5
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	TUE	1
WED	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0	1	0	0	0	0	WED	5
тни	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	THU	2
FRI	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	2	0	0	0	0	0	0	FRI	5
SAT	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	SAT	3
SUN	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	SUN	2
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	1	0	0	0	0	0	0	1	1	1	3	2	2	0	1	0	1	2	5	0	3	0	0	0	0	тот.	23

Location:	Black Bridge Road & Randall Avenue
Municipality:	City of Janesville
County:	Rock
Traffic Control:	All-Way Stop

		TADI)
From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
То:	12/31/2020	Duration
AADT:	7,650	5 Years
Area Type:	Urban	0 Months

Ref							Road	Light	Alc.	Drug	Speed	
#	Label	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
1	EB2	LW8ZNR8	12/6/2016	RT-ANGLE	4 PM	<i>c</i>						CD read share
∠ 3	EB <sub>2</sub>	CML1B2G271	5/20/2019 8/29/2019	RT-ANGLE	NA UL			DARK				co ran stop
4	EB2	CML18JRPDQ	12/2/2019	RT-ANGLE	8 PM			DARK				
5	EB <sub>5</sub>	CML18L0QBL	3/11/2018	REAR-END	12 AM			DARK				
6	EBs	CML18JRP8Q	9/21/2018	REAR-END	11 AM			DARK			Y	
7	Mw	LW9MNJD	6/6/2016	MISC. OTHER	10 AM	А						NBL swerve miss SBT
8	HW	CML18QXVZ9	12/11/2019	HEAD-ON	8 PM	C		DARK				NBL-EB stopped
10	NR.	1W95199	7/20/2016	RI-ANGLE	/ AM	C						NBFIY
10	NB <sub>1</sub>	CML19KMLX3	6/4/2018	LT-ANGLE	12 PM	c						
12	NB <sub>2</sub>	CML18F2KWK	11/17/2017	RT-ANGLE	6 PM	-	WET	DARK				
13	NB <sub>2</sub>	CML19KMLWZ	5/14/2018	RT-ANGLE	9 AM		WET					
14	NB <sub>2</sub>	CML18L0QD6	8/24/2018	RT-ANGLE	2 PM	С						NB ran stop
15	NBs	CML19RSSJN	3/30/2019	REAR-END	5 PM							
16	Mş	CML18F2KZJ	3/19/2018	MISC. OTHER	6 PM	c		<b>D</b> 4 V				SB rear-S Leg
1/	58 <sub>2</sub>	LW8ZNRX	9/2/2016	RT-ANGLE RT-ANGLE	5 PIVI 10 AM	C		DAY				SB ran stop
19	SB <sub>2</sub>	CML086WD6W	12/30/2017	RT-ANGLE	12 PM	-	WET					
20	SB2	CML18F2LB6	7/15/2018	RT-ANGLE	6 PM							
21	SB <sub>2</sub>	CML19RSSGQ	7/18/2018	RT-ANGLE	6 PM							
22	SB <sub>2</sub>	CML19KMM43	7/24/2019	RT-ANGLE	8 AM							SB FTY
23	SB <sub>2</sub>	CML19KMM5J	11/20/2019	RT-ANGLE	5 PM			DARK				
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## **A2.14 Intersection Collision Diagram**



																									IOIA		JLLJ
DAY/	ТІМЕ Т	REND	5																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		T01
MON	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0	2	0	0	0	0	0	0	0	MON	7
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	TUE	2
WED	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	1	1	0	0	1	0	0	0	0	WED	7
THU	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	THU	6
FRI	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1	0	1	1	1	0	2	0	0	0	0	FRI	10
SAT	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	SAT	2
SUN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	0	0	SUN	4
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TO
тот.	0	0	0	0	0	0	0	1	1	2	3	3	0	4	6	4	3	6	1	1	3	0	0	0	0	тот.	38

TRAFFIC ANALYSIS & DESIGN IN



Location:	USH 51 & Main Street		From:	1/1/2016	TRAFFI	IC ANAL	YSIS & DESIGN, INC.
Municipality:	City of Janesville		To:	12/31/2020		Dur	ation
County:	Rock		AADT:	19,350		5	Years
Traffic Control:	Traffic Signal		Area Type:	Urban		0	Months
Ref		Road Light Alc. Drug Speed	Ref		Road	Light	Alc. Drug Speed

Ref							Road	Light	Alc.	Drug	Speed	
#	Label	Doc. #	Date Cr	ash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
1	EB1	LW9L64V	12/23/2016	LT-ANGLE	6 PM		SNOW	DARK				
2	EB1	CML19T1TNS	8/30/2019	LT-ANGLE	4 PM	6						50
3	EB2 FR	CML18F2LDW	2/23/2019	RI-ANGLE REAR-END	9 AM	0	WET					EB ran red
5	EB <sub>5</sub>	CML19426V8	8/23/2018	REAR-END REAR-END	3 PM	ь	WEI					
6	EBs	6RL0T32KV6	1/28/2019	REAR-END	2 PM		WET					
7	EBs	CML1B3P3BG	2/19/2019	REAR-END	2 PM							
8	EB <sub>6</sub>	CML1884FG3	8/24/2018	SIDE-SWIPE-SAME	8 PM		WET	DARK				
9	EB <sub>9</sub>	LWC/2P1	12/12/2016	FIXED-OBJECT	5 PM		SNOW	DARK			v	Deidae harrier
11	WB <sub>1</sub>	CML19LVN63	9/9/2019	IT-ANGLE	6 PIVI 1 PM		WEI	DARK				WB FTY
12	WB1	KRL0H5JN07	5/7/2020	LT-ANGLE	7 PM	А					Y	EB speeding
13	$WB_2$	CML185NC7C	1/29/2018	RT-ANGLE	3 PM							
14	$WB_2$	CML18L0QJ9	12/15/2019	RT-ANGLE	1 PM							
15	WB <sub>2</sub>	CML1B2G291	1/15/2020	RT-ANGLE	9 AM		WET					
10	WB.	LW9MNH6	3/17/2016	REAR-END REAR-END	5 PM		SNOW	DARK			r	
18	WB <sub>5</sub>	CML1C22XW0	4/5/2017	REAR-END	8 PM		WET	DARK				
19	WBs	CML18F2KXS	1/25/2018	REAR-END	8 AM		WET					
20	$WB_{\text{s}}$	CML184FB71	9/24/2018	REAR-END	3 PM							
21	WB <sub>5</sub>	CML18F2LBQ	9/26/2018	REAR-END	5 PM	-						
22	WBs	CML1B7D6P8	6/19/2019	REAR-END REAR-END	2 PIVI 4 PM	ι						Slowing to turn left
24	WB <sub>6</sub>	LW92MFD	5/5/2016	SIDE-SWIPE-SAME	2 PM							slowing to turniert
25	$WB_6$	CML18QXVTW	7/1/2018	SIDE-SWIPE-SAME	5 PM							
26	WB6	CML18F2LD7	1/16/2019	SIDE-SWIPE-SAME	10 AM							
27	WB6	CML19QKRD4	10/18/2019	SIDE-SWIPE-SAME	5 PM							
28	NB <sub>1</sub>	CMI 18F2I B7	2/14/2020	MISC. OTHER	11 AM							EB rear E Leg
30	NB <sub>2</sub>	CML18F2KW4	10/1/2017	RT-ANGLE	4 PM							
31	NB <sub>2</sub>	CML18JRP63	11/20/2017	RT-ANGLE	1 PM							
32	$NB_2$	CML18L0QCD	5/4/2018	RT-ANGLE	10 AM	С	WET					EB ran red
33	NB <sub>2</sub>	CML18L0QJ1	11/13/2019	RT-ANGLE	11 AM							
34	NB <sub>5</sub>	LW9MNLF	7/16/2019 9/20/2016	SIDE SWIRE SAME	2 PM							
36	NB <sub>6</sub>	CML18L0QJK	1/26/2020	SIDE-SWIPE-SAME	2 P M		WET					
37	NB <sub>2</sub>	CML19RSSL4	10/7/2019	FIXED-OBJECT	5 PM							
38	SB2	CML18JRPBF	3/22/2019	RT-ANGLE	10 AM	С						WB ran red
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Ref #	Label	Doc #	Date	Crash Type	Time	Severity	Road	Light Cond	Alc. Flag	Drug Flag	Speed	Notes
101	Label	000.#	Date	crash type	Time	Sevency	cona.	cond.	Tiag	Tiag	Tiag	Notes
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# **A2.15 Intersection Collision Diagram**



DAT		REND.	3																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	0	0	0	0	MON	4
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0	TUE	5
WED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	WED	2
тни	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	1	0	0	0	1	0	0	0	0	0	тни	5
FRI	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	FRI	3
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	SAT	2
SUN	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	SUN	2
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	0	0	0	0	0	0	2	3	2	3	1	4	2	2	2	1	0	0	0	1	0	тот.	23

TRAFFIC ANALYSIS & DESIGN IN

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Location:	Milwaukee Street & Morningside Drive
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Minor Street Stop

From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
То:	12/31/2020	Duration
AADT:	9,600	5 Years
Area Type:	Urban	0 Months

# 1							Road	Light	Alc.	Drug	Speed	
	Label	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
	EB0	LW90DWC	9/25/2020	PEDESTRIAN	11 AM	в						SBL-Ped in cross
	EB,	CML19KMM34	9/6/2016	LI-ANGLE	1 PM	L						
	EB2	CML19KMLZP	8/30/2019	RT-ANGLE	4 P M	с						EB FTY
	EB2	CML1BC3B5D	8/24/2020	RT-ANGLE	10 AM	c						SBL-EBT
	EB <sub>5</sub>	LWC72MW	1/14/2016	REAR-END	3 PM		WET					
	EBs	LW9GH2R	5/24/2016	REAR-END	1 PM	с						
	Mw	CML1BGSFDK	7/23/2020	MISC. OTHER	10 AM			DAY				WB fixed W Leg
	WB1	CML18L0QBW	3/23/2018	LT-ANGLE	2 PM	С						
	WB <sub>2</sub>	CML18QXVV8	9/2/2018	RT-ANGLE	11 AM	с						NB did not see WB
	WB <sub>5</sub>	CML18L0QDV	12/27/2018	REAR-END	7 PM		WET	DARK				
	WBs	CMI 19TDYNG	6/10/2019	REAR-END	3 PM	c						ND did not con ED
	SB <sub>2</sub>	LW9VBDO	6/4/2019	RT-ANGLE RT-ANGLE	11 AM	L		DARK	v			NB did not see EB
	SB <sub>2</sub>	CML184FB6N	9/2/2018	RT-ANGLE	6 PM	в	WET	DAY				SB rolled thru stop
	SB <sub>2</sub>	CML19LVN3X	1/29/2019	RT-ANGLE	5 PM		ICE	DAY				
	SB4	CML19RSSK4	6/10/2019	RT-TURN REAR-END	6 PM	с						Pull ahead, stop
	SBs	LW9BRS4	1/11/2016	REAR-END	3 PM		SNOW				γ	
	SBs	LW90DT3	3/31/2016	REAR-END	12 PM		WET					
	SBs	CML191L4FP	6/19/2018	REAR-END	1 PM							
	SBs	CML11GFB1N	6/15/2019	REAR-END	4 PM	~						Different store
	SB <sub>2</sub>	CMI 1787I WO	2/21/2017	SIDE-SWIDE-SAME	5 PM	L						Pull anead, stop
			5/21/201/	SIDE-SWIFE-SAME	JFIM							

Ref									Road	Light	Alc.	Drug	Speed		
#	Label	Doc. #	6	Date	Crash T	ype	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes	
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# **A2.16 Intersection Collision Diagram**



MON	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	MON	5
TUE	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	0	TUE	6
WED	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0	WED	4
THU	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	THU	5
FRI	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	FRI	4
SAT	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	SAT	3
SUN	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	SUN	3
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	0	0	0	1	3	0	0	4	1	1	1	5	5	4	3	0	0	1	1	0	0	тот.	30

7	A	Di	)
TR	AFFIC ANALYSIS	& DESIGN, INC.	

Location:	Harmony Drive & Milwaukee Street
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Traffic Signal

From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, II
To:	12/31/2020	Duration
AADT:	10,100	5 Years
Area Type:	Urban	0 Months

Ref							Road	Light	Alc.	Drug	Speed	
#	Label	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
1	EB2	LW92MFX	7/9/2016	RT-ANGLE	5 PM	В						EB could not stop
2	EB2	LW9H767	7/27/2016	RT-ANGLE	1 PM	C						On yellow-red
3	EB <sub>2</sub>	CML17BZLXZ	7/28/2017	RT-ANGLE	4 PM							
4	EB2	CML185NC82	4/16/2018	RT-ANGLE	7 AM	I C	WET				Y	EB slid thru red
5	EB <sub>2</sub>	CML1BFKD7G	10/27/2019	RT-ANGLE	3 PM							
6	EBs	CML1855WSP	6/6/2017	REAR-END	11 AM							
7	EBs	CML18F2K16	6/8/2017	REAR-END	8 AM							
8	LD6	CMI 180YUS1	1/32/2016	SIDE-SWIPE-SAME	11 AM		MET	DARK				
10	WB <sub>2</sub>	CMI 18000K1	8/22/2018	RT-ANGLE	2 PM		VVEI	DARK				
11	WB <sub>5</sub>	LW90DX2	10/20/2016	REAR-END	6 PM	1		DARK				
12	WB <sub>5</sub>	LW9VBG4	12/19/2016	REAR-END	5 PM		SNOW	DAY			Y	
13	WB <sub>5</sub>	CML17BZLWP	3/21/2017	REAR-END	4 PM							
14	$WB_{\text{s}}$	CML19LVN2J	10/30/2018	REAR-END	4 PM		WET				Y	
15	$WB_S$	CML19V8VPJ	11/11/2018	REAR-END	11 AM				γ			
16	WBs	CML1B2G296	1/22/2020	REAR-END	3 PM							
17	WBs	CML1B8M7TF	7/13/2020	REAR-END	10 PM	C		DARK	Y			
18	WB6	CML1/9QKSX	3/30/2017	SIDE-SWIPE-SAME	3 PM		WET					
20	WB.	CMI 19I VN55	6/15/2018	SIDE-SWIPE-SAME	3 PIVI 4 DM							
21	WBd	CML18M7RBJ	7/6/2018	DRIVEWAY-RELATED	11 AM	I B						WB rear W Leg
22	WB <sup>d</sup>	CML18L0QHF	9/29/2019	DRIVEWAY-RELATED	12 PM	I C	WET					WB rear W Leg
23	NBo	CML1BZLVNJ	12/1/2020	PEDESTRIAN	9 PM	IВ		DARK				WBR-Ped in cross
24	NB <sub>2</sub>	CML19RSSGD	5/31/2018	RT-ANGLE	4 PM	1						
25	SB2	CML17GNQ7M	5/25/2017	RT-ANGLE	8 AM	C						SBL on yellow-red
26	SB <sub>2</sub>	CML19LVN3W	1/28/2019	RT-ANGLE	6 PM		SNOW	DARK			γ	
27	SB2	CML19LVN41	2/8/2019	RT-ANGLE	5 PM	1	10-					
28	SB-	CMI 19I VN7T	2/6/2019	REAR-END	6 PM		ICE	DARK				
29	SB <sub>9</sub>	CML1BFKD9W	7/21/2020	FIXED-OBJECT	3 AM 3 PM							
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7 12021	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
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# **A2.17 Intersection Collision Diagram**

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 9 AM

10 AM 11 AM

12 PM 1 PM 2 PM 3 PM 4 PM



5 PM 6 PM 7 PM

> 8 PM 9 PM 10 PM 11 PN

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Location:	Garfield Avenue & Milwaukee Street	From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, IN
Municipality:	City of Janesville	To:	12/31/2020	Duration
County:	Rock	AADT:	5,050	5 Years
Traffic Control:	Minor Street Stop	Area Type:	Urban	0 Months

Ref							Road	Light	Alc.	Drug	Speed	
#	Label	Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes
1	EB1	CML17BZLXW	7/11/2017	LT-ANGLE	9 PM	1	WET	DARK	Y			
2	WB <sub>2</sub>	LW9MNGV	2/27/2016	RT-ANGLE	9 AM							
3	$WB_2$	LW95L8G	3/31/2016	RT-ANGLE	3 PM						Y	
4	WB <sub>2</sub>	LW9GH34	6/9/2016	RT-ANGLE	8 PM		WET	DARK				
5	WB <sub>2</sub>	LW9MNM8	11/21/2016	RT-ANGLE	7 AM							
6	WB <sub>2</sub>	CML1C22XVZ	4/5/2017	RT-ANGLE	2 PM	C	WET					NB FTY
7	W/B.	CMI 1787I X1	4/19/2017	PTANGLE	5 DM	-						
	\A/R	CMI 19E2KST	-, 10, 2017	DT ANGLE	2 0 4							ND CTV
0	WD2	CMI 101714C	0/47/2017	ANGLE DT ANGLE	3 PM							NOTTI
9	WD2	CNIL101714G	9/1//2017	RT-ANGLE	3 P IVI		14/57					
10	WB2	CML1884FD6	12/11/2017	RI-ANGLE	11 AM		WEI					
11	WB <sub>2</sub>	CML18QXVRV	1/3/2018	RT-ANGLE	2 PM	С	WET					NB FTY
12	WB <sub>2</sub>	CML19LVN0Z	5/28/2018	RT-ANGLE	3 PM							
13	WB <sub>2</sub>	CML19LVN1F	7/16/2018	RT-ANGLE	2 PM	С					Y	NB FTY
14	WB <sub>2</sub>	CML11R2KS9	3/31/2019	RT-ANGLE	6 PM	С						NB FTY
15	WB <sub>2</sub>	CML19LVN4M	3/31/2019	RT-ANGLE	6 PM	C						NB FTY
16	WB <sub>2</sub>	CML19N3PF4	6/28/2019	RT-ANGLE	11 AM							
17	WB <sub>2</sub>	CML19RSSKH	7/22/2019	RT-ANGLE	6 PM				Y			
18	$WB_2$	CML19KMM4P	9/5/2019	RT-ANGLE	8 AM							
19	WB <sub>2</sub>	CML11R2KT2	10/17/2019	RT-ANGLE	6 AM			DARK				
20	WB <sub>2</sub>	CML19N3PGH	10/17/2019	RT-ANGLE	4 PM	в						NB ran stop
21	WB <sub>2</sub>	CML18L0QJ4	11/22/2019	RT-ANGLE	6 PM			DARK				
22	WB <sub>2</sub>	CML19LVN74	12/31/2019	RT-ANGLE	6 PM	с	SNOW	DARK				NB FTY
23	WB <sub>2</sub>	CML1B8M7TG	7/14/2020	RT-ANGLE	10 AM							
24	WB <sub>6</sub>	LW90DXT	11/21/2016	SIDE-SWIPE-SAME	7 AM							
25	NB <sub>2</sub>	CML17GNQ8H	8/2/2017	RT-ANGLE	2 PM	В						NB FTY
26	SB <sub>2</sub>	LW92MCX	1/4/2016	RT-ANGLE	2 PM							
27	SB <sub>2</sub>	CML18F2KSS	4/27/2017	RT-ANGLE	1 PM		WET					
28	SB-	CML1BGSEC3	11/9/2017	RT-ANGLE	2 014							
20			14/0/2019	AT PAROLE	5710							
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## **A2.18 Intersection Collision Diagram**



	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	1	1	0	0	0	0	0	0	0	MON	6
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	TUE	1
WED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	WED	3
тни	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	THU	3
FRI	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	FRI	5
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	SAT	2
SUN	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	SUN	2
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	1	0	0	0	0	0	1	1	0	0	0	3	1	0	3	4	2	2	1	1	2	0	0	0	тот.	22
# **Crash Data**

Corresponds to Collision Diagram

Location:	Harding Street & Memorial Drive
Municipality:	City of Janesville
County:	Rock
Traffic Control:	Minor Street Stop

		TADI)
From:	1/1/2016	TRAFFIC ANALYSIS & DESIGN, INC.
То:	12/31/2020	Duration
AADT:	11,760	5 Years
Area Type:	Urban	0 Months

#	1 1	D #	Dete	Couch Truce	Time	Coursela	Cand	Canad	<b>F</b> 1	<b></b>	<b>F</b> 1	Natas
1	EB1	CML19LVN22	8/30/2018	LT-ANGLE	1 ime 6 PM	C	Cond.	Cond.	Flag	Flag	Flag	EBL thru traffic
2	EB1	CML19RSSMG	4/8/2020	LT-ANGLE	4 PM		WET					
3	EB <sub>2</sub>	CML19XQXVS CML18L0081	6/4/2018	RT-ANGLE RT-TURN REAR-END	12 PM							
5	EB <sub>9</sub>	CML19426WC	12/9/2018	FIXED-OBJECT	1 AM			DARK	Y			
õ	EB <sub>10</sub>	CML18L0QCM	5/21/2018	DRIVEWAY-RELATED	7 AM		WET					NB-EB
7	EB <sub>10</sub>	CML18F2LBC CML19N3PEO	7/30/2018	DRIVEWAY-RELATED	4 PM							NB-EB
9	WBo	CML19KMM6P	7/30/2020	PEDESTRIAN	9 PM	в		DARK				NBL-Ped in cross
10	WB1	CML179QKTR	5/26/2017	LT-ANGLE	3 PM	С	WET					WB FTY
11	WB1	CML11GFB1C	1/28/2019	LT-ANGLE	5 PM		SNOW	DARK				
12	WB <sub>5</sub>	LWC72PX	2/1/2019 12/23/2016	REAR-END	8 AM 4 PM		SNOW				Y	
14	WB6	LWC72N3	2/26/2016	SIDE-SWIPE-SAME	7 PM			DARK				
15	WB <sup>d</sup>	LW93CN3	6/11/2016	DRIVEWAY-RELATED	3 PM							Backing-WBT
16	M <sup>E</sup>	CML184FB8T	1/18/2019	MISC. OTHER	12 PM		CNOW				Y	NR CTV
18	NB <sub>10</sub>	LW9MNH5	3/16/2016	DRIVEWAY-RELATED	4 PM 9 PM	с	SNOW	DARK				NB-EB
19	SB2	CML18L0QCV	6/10/2018	RT-ANGLE	1 PM		WET					
20	SB <sub>2</sub>	CML1BFKD8L	1/6/2020	RT-ANGLE	3 PM	В		DAY				SB FTY
21	SB <sub>2</sub>	CML1BFKD8Q CML1B8M7RN	9/10/2019	RI-ANGLE MISC. OTHER	12 PM 8 PM	B	WEI	DARK				SB tree block view
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# **A2.19 Intersection Collision Diagram**



	12 AW	TAW	2 AW	3 AW	4 AW	JAW	0 AIVI	/ AW	0 AW	3 AN	TU AIVI	TTAW			2 7 101	SFW	4 F W	JFW	OFW	/ F WI	OFW	3 FINI	IUFIN	IIFW	UNK		101.
MON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0	0	MON	4
TUE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	TUE	3
WED	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	WED	1
THU	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	THU	2
FRI	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	FRI	2
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	SAT	1
SUN	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SUN	1
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	0	0	0	1	0	1	1	0	0	0	1	1	0	2	1	1	0	3	1	0	1	0	0	тот.	14

# **Crash Data**

Location:

Municipality:

Corresponds to Collision Diagram

Holmes Street & Randall Avenue

**City of Janesville** 

	TA
1/1/2016	TRAFFIC ANALYSIS
12/31/2020	Duratio

From:

To:



c	οι	unt	v:		Rock								AADT:		7.900
Т	ra	ffic	, Control:		All-Way Stop								Area Type:		Urban
	-				, <b></b> p										
Re	ef						Road	Light	Alc	Drug	Speed		Ref		
#	L	abel	Doc. #	Date	Crash Type	Time Severity	Cond.	Cond.	Flag	g Flag	Flag	Notes	# Label Doc. #	Date	Crash Type
2	1	NB <sub>2</sub>	CML18NGSG3 CML18F2KSQ	4/17/2019	SIDE-SWIPE-SAME RT-ANGLE	8 AM 8 PM C		DARK				NB ran stop	101 102		
3	1	NB <sub>2</sub>	CML17BZLXJ	5/16/2017	RT-ANGLE	4 PM							103		
4	1	NBs NBs	CML1BFKD7S	9/23/2016 11/11/2019	REAR-END REAR-END	7 PM 3 PM	SNOW	DARK					104		
6	1	NBs	CML18NGSGM	1/22/2020	REAR-END	12 PM	WET						106		
7	1	NB6 B2	CML1C22XWN CML19RSSM7	9/11/2017 2/10/2020	SIDE-SWIPE-SAME RT-ANGLE	5 PM C 7 PM		DARK				Merge from parked	107		
9	S	iB <sub>5</sub>	CML18L0Q9F	11/18/2017	REAR-END	10 PM		DARK					109		
10		Bs Be	CML18QXVTK	5/17/2018	REAR-END PARKED-VEHICLE	3 PM			Y		v		110		
12	5	Ba	CML185NC57	7/25/2017	PARKED-VEHICLE	7 PM		DAY					112		
13	9	Bs	CML19426V5	8/19/2018	PARKED-VEHICLE	5 AM A	WET	DAY	Y	Y		Motorcycle-Park Veh	113		
15		-		10/11/2013	DIRECTATILEDATED	7740							115		
16													116		
18													117		
19													119		
21													120		
22													122		
23													123		
25													125		
26													126		
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88													188 189		
90													190		
91 92													191 192		
93													193		
94													194		
96													196		
97 98													197 198		
99	0												199		
10	U												200		

Г:		7,900				5	Ye	ars			
Type:		Urban				0	М	onth	าร		
					Road	Light	Alc.	Drug	Speed		
el Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag	Flag	Flag	Notes	

# **A2.20 Intersection Collision Diagram**



DAY/	JAY/TIME TRENDS																										
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	MON	1
TUE	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	TUE	2
WED	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	WED	3
THU	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	THU	2
FRI	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	FRI	1
SAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SAT	0
SUN	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SUN	2
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	0	0	1	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	2	1	1	0	1	0	0	тот.	11

# **Crash Data**

Corresponds to Collision Diagram



L	.ocat	ion:		Pearl Street	& Ravine St	reet				From:		1/1/2016			INAFFI	CANALT	SIS & DESIGN, INC.	
ſ	Muni	cipality:		City of Janes	ville					To:		12/31/2020				Dura	tion	
				De els						AADT		,,				-		
C	Loun	ty:		ROCK						AADT:		5,800				5	rears	
1	<b>raffi</b>	c Control:		All-Way Stop	)					Area Type:		Urban				0	Months	
				.,						<b>/</b>								
R	ef					Road	Light	Alc. Drug Speed	1	Ref					Road	Light	Alc. Drug Speed	
#	Label	Doc. #	Date	Crash Type	Time Severity	Cond.	Cond.	Flag Flag Flag	Notes	# Label Doc. #	Date	Crash Type	Time	Severity	Cond.	Cond.	Flag Flag Flag	Notes
1	EBs M/R	LW942TD	4/21/2019	PARKED-VEHICLE	2 AM C			Ŷ	Dropped cigarette	101								
2	NB.	CMI 194265X	5/1/2016	RT-ANGLE	7 PM		DAY		NR did not see ER	102								
4	NBs	CML18368WT	7/10/2017	REAR-END	8 PM		DAI	Y	ND did flot see ED	103								
5	NBs	CML1BDBC7J	12/29/2020	REAR-END	10 AM	SNOW	DARK			105								
6	NBs	CML185NC59	8/4/2017	PARKED-VEHICLE	7 AM	WET			Passing SB semi	106								
7	NBs	CML18F2L0B	5/16/2018	PARKED-VEHICLE	6 PM B				Lost control cycle	107								
8	SB2	CML19RSSH0	9/6/2018	RT-ANGLE	6 PM B				SB rolled thru stop	108								
9	SB2	CML1B9V8XL	1/22/2020	RT-ANGLE	9 AM	WET				109								
10	O SBs	CML19426Q4	9/17/2017	REAR-END	10 AM					110								
1	1 SB6	CML18JRP4D	5/24/2017	SIDE-SWIPE-SAME	10 PM		DARK			111								
1	2									112								
1	3									113								
1	4 c									114								
10	6									115								
1	7									117								
1	8									118								
19	9									119								
20	0									120								
2	1									121								
2	2									122								
2	2 4									123								
24	- 5									125								
2	- 6									126								
2	7									127								
2	8									128								
2	9									129								
30	0									130								
3	1									131								
3	2									132								
3	3									133								
2	4 5									134								
3	6									136								
3	7									137								
3	8									138								
3	9									139								
41	0									140								
4	1									141								
4	2									142								
4	3									143								
4	4 5									144								
4	6									145								
4	7									147								
4	8									148								
4	9									149								
50	0									150								
5	1									151								
52	2									152								
5	3									153								
5	-+ 5									155								
5	6									156								
5	7									157								
5	8									158								
5	9									159								
61	0									160								
6	1									161								
6	4									162								
6	4									164								
6	5									165								
6	6									166								
6	7									167								
6	8									168								
6	9									169								
70	υ 1									171								
7	2									172								
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7	9									1/9								
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8	4									184								
8	5									185								
8	6									186								
8	7									187								
8	8									188								
8	9 D									189								
3	- 1									191								
9	2									192								
9	3									193								
94	4									194								
9	5									195								
9	6									196								
9	/									197								
9	8									198								
1/										200								

**APPENDIX B1** 

# CORRIDOR SAFETY ANALYSIS

# **Corridor Safety Analysis**



5 Years

Location:	E. Memorial (S. Oakhill Ave to Milton Ave)
Municipality:	Janesville
County:	Rock
Length of Corridor:	1.5 miles
GPS Coordinates	(Start): 42.693884, -89.042328

TOTAL CRASHES	229
AVG. CRASHES/YEAF	R: 45.8
CRASH RATE: Orange = Higher than average, Red = High	777.4 per 100MVM
KAB CRASH RATE:	84.9 per 100MVM
Orange = Higher than average, Red = High	er than Upper Control Limit (UCL)
ECONOMIC LOSS*:	\$ 13,665,800
*KA=\$684K, B=\$217K, C=\$123	3K, PDO=\$10.8K



 To:
 12/31/2020
 0
 Months

 AADT:
 11,050
 MAP

 Peer Group:
 Urban Streets
 MAP

 GPS Coordinates (End):
 42.693610, -89.013569
 Hereits

1/1/2016

From:

YEAR	к	Α	в	с	PDO	тот.	EC	ON. LOSS
2016	0	1	3	8	46	58	\$	2,815,800
2017	0	0	5	10	29	44	\$	2,628,200
2018	1	1	2	6	47	57	\$	3,047,600
2019	0	0	4	5	26	35	\$	1,763,800
2020	0	2	6	4	23	35	\$	3,410,400
TOTAL	1	4	20	33	171	229	\$	13,665,800

K = Fatal, A = Incapacitating Injury, B = Non-Incapacitating Injury, C = Possible Injury, PDO = Property Damage Only

WI AVG. CRASH RATE & (UCL): 343.55, (377.71) WI AVG. KAB CRASH RATE & (UCL): 39.69, (51.3)



RUN-OFF-ROAD CRASH TYPES	К	Α	В	С	PDO	тот.	ECON. LOSS
Other	1	1	0	0	4	6	\$ 1,411, <mark>200</mark>
Fixed-Object	0	0	1	1	7	9	\$ 415,600
Overturn	0	0	1	0	0	1	\$ 217,000
Ditch	0	0	0	1	2	3	\$ 144,600
Bridge	0	0	0	0	4	4	\$ 43,200
Median Barrier	0	0	0	0	1	1	\$ 10,800
Immersion	0	0	0	0	1	1	\$ 10,800
Tree	0	0	0	0	0	0	\$ -
Guardrail	0	0	0	0	0	0	\$ -
Fence	0	0	0	0	0	0	\$ -
MULTI-VEHICLE CRASH TYPES	к	Α	В	С	PDO	тот.	ECON. LOSS
Rear-End	0	0	8	18	73	99	\$ 4,738,400
Left-Turn Angle	0	3	1	1	12	17	\$ 2,5 <mark>21,600</mark>
Right-Angle	0	0	7	2	32	41	\$ 2,11 <mark>0,600</mark>
Head-On	0	0	1	5	6	12	\$ 896,800
Side-Swipe-Same	0	0	0	2	27	29	\$ 537,60 <mark>0</mark>
Other	0	0	1	1	2	4	\$ 361,600
Side-Swipe-Opposite	0	0	0	0	0	0	\$ -
MULTI-MODAL CRASH TYPES	К	Α	В	С	PDO	тот.	ECON. LOSS
Pedestrian	0	0	0	1	0	1	\$ 123,000
Bicycle	0	0	0	1	0	1	\$ 123,000
ALL CRASH TYPES	1	4	20	33	171	229	\$ 13,665,800
							-,

ROAD	ONDIT	TIONS	LIGHT CONDITIONS	DRIVER BEHAVIO	R	SEASON		CURVE TYPE	CAUSATION	VEHICLE DAMAGE	
DRY	176	77%	DAY 184 80%	ALCOHOL 1	0 4%	SPRING	45 20%	HORZ 12 5%	ROR 25 11%	OTHER/UNK.	10
WET	32	14%	DARK 45 20%	DRUGS	3 1%	SUMMER	63 28%	VERT 45 20%	FTY 42 18%	NONE	18
SNOW	18	8%	TOT. 229	SPEED 1	9 8%	FALL	60 26%		DTC 16 7%	VERY MINOR	14
ICE	3	1%				WINTER	61 27%	INTERSECTION	ROR = RUN-OFF-ROAD	MINOR	140
OTH.	0	0%				TOT.	229	INT 113 49%	FTV =	MODERATE	157
TOT.	229		NOTES:						FAILURE TO YIELD	SEVERE	84
			Injury crashes have be	en vetted.					DTC = DISREGARDED	VERY SEVERE	1
									TRAFFIC CONTROL	TOTAL VEHICLES	424
	DAY/T		INDS								

	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 A M	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	1	0	0	0	0	1	0	1	0	1	1	3	6	2	4	6	3	5	1	0	0	0	1	1	0	MON	37
TUE	0	0	0	0	0	0	0	2	0	4	1	2	4	2	1	7	3	3	3	1	4	2	0	1	0	TUE	40
WED	0	0	0	0	0	0	1	2	1	1	1	2	0	3	4	5	5	5	0	3	0	1	0	0	0	WED	34
THU	0	0	0	1	1	0	0	0	2	2	1	3	2	1	0	3	1	8	5	1	0	1	0	0	0	THU	32
FRI	0	1	0	0	0	1	0	1	3	0	0	3	2	2	2	4	5	4	4	5	3	1	0	1	0	FRI	42
SAT	0	0	0	0	1	0	0	0	1	1	3	2	1	2	0	3	2	2	0	1	3	1	0	0	0	SAT	23
SUN	1	1	0	0	0	0	0	0	0	3	2	2	2	2	0	0	3	1	2	1	0	1	0	0	0	SUN	21
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	2	2	0	1	2	2	1	6	7	12	9	17	17	14	11	28	22	28	15	12	10	7	1	3	0	тот.	229

# **Corridor Safety Analysis**



Location:	Mt. Zion (Milton Ave to Pontiac Dr)
Municipality:	Janesville
County:	Rock
Length of Corridor:	1.0 miles
GPS Coordinates	(Start): 42.700855, -89.008954

40

30

20 10

0

TOTAL CRASHES	132
AVG. CRASHES/YEA	AR: 26.4
CRASH RATE: Orange = Higher than average, Red = Hig	970.7 per 100MVM
KAB CRASH RATE:	80.9 per 100MVM
Orange = Higher than average, Red = Hig	igher than Upper Control Limit (UCL)
ECONOMIC LOSS*:	\$ 6,404,800
*KA=\$684K, B=\$217K, C=\$12	.23K, PDO=\$10.8K





WI AVG. CRASH RATE & (UCL): 343.55, (393.83) WI AVG. KAB CRASH RATE & (UCL): 39.69, (56.78)



F	rom:	1/1/2016	5	Years	
Т	o:	12/31/2020	0	Months	
A	ADT:	7,301			MAP
F	eer Group:	<b>Urban Streets</b>			
	o o volimento o / Fu	d). 43 7004F3	00	000074	

GPS Coordinates (End): 42.700453, -88.988934

YEAR	к	Α	в	с	PDO	тот.	EC	ON. LOSS
2016	0	0	2	4	17	23	\$	1,109,600
2017	0	1	4	3	17	25	\$	2,104,600
2018	0	0	2	4	25	31	\$	1,196,000
2019	0	0	1	5	22	28	\$	1,069,600
2020	0	0	1	4	20	25	\$	925,000
TOTAL	0	1	10	20	101	132	\$	6,404,800

K = Fatal, A = Incapacitating Injury, B = Non-Incapacitating Injury, C = Possible Injury, PDO = Property Damage Only

RUN-OFF-ROAD CRASH TYPES	к	Α	в	с	PDO	тот.		ECON. LOSS
Fixed-Object	0	0	1	0	6	7	\$	281,80 <mark>0</mark>
Other	0	0	0	1	2	3	\$	144,600
Ditch	0	0	0	0	1	1	\$	10,800
Tree	0	0	0	0	1	1	\$	10,800
Overturn	0	0	0	0	0	0	\$	-
Guardrail	0	0	0	0	0	0	\$	-
Median Barrier	0	0	0	0	0	0	\$	-
Fence	0	0	0	0	0	0	\$	-
Bridge	0	0	0	0	0	0	\$	-
Immersion	0	0	0	0	0	0	\$	-
MULTI-VEHICLE CRASH TYPES	к	Α	в	С	PDO	тот.	1	ECON. LOSS
Right-Angle	0	0	3	9	24	36	\$	2,017,200
Right-Angle Rear-End	0 0	0 0	3 2	9 8	24 39	36 49	\$ \$	2,017,200 1,839,200
Right-Angle Rear-End Left-Turn Angle	0 0 0	0 0 1	3 2 1	9 8 1	24 39 7	36 49 10	\$ \$ \$	2,017,200 1,839,200 1,099,600
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same	0 0 0 0	0 0 1 0	3 2 1 1	9 8 1 0	24 39 7 16	36 49 10 17	\$ \$ \$	2,017,200 1,839,200 1,099,600 389,800
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other	0 0 0 0 0	0 0 1 0 0	3 2 1 1 0	9 8 1 0 0	24 39 7 16 4	36 49 10 17 4	\$ \$ \$ \$ \$	2,017,200 1,839,200 1,099,600 389,800 43,200
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On	0 0 0 0 0	0 0 1 0 0 0	3 2 1 1 0 0	9 8 1 0 0 0	24 39 7 16 4 1	36 49 10 17 4 1	\$ \$ \$ \$ \$	2,017,200 1,839,200 1,099,600 389,800 43,200 10,800
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite	0 0 0 0 0 0 0	0 0 1 0 0 0 0	3 2 1 1 0 0 0	9 8 1 0 0 0 0	24 39 7 16 4 1	36 49 10 17 4 1 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,017,200 1,839,200 1,099,600 389,800 43,200 10,800
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite	0 0 0 0 0 0	0 0 1 0 0 0 0	3 2 1 1 0 0 0	9 8 1 0 0 0 0	24 39 7 16 4 1	36 49 10 17 4 1 0	\$ \$ \$ \$ \$ \$	2,017,200 1,839,200 1,099,600 389,800 43,200 10,800 -
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite MULTI-MODAL CRASH TYPES	0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0	3 2 1 0 0 0 8	9 8 1 0 0 0 0 0 <b>C</b>	24 39 7 16 4 1 0 <b>PDO</b>	36 49 10 17 4 1 0 <b>TOT.</b>	\$ \$ \$ \$ \$ \$	2,017,200 1,839,200 1,099,600 389,800 43,200 10,800 - ECON. LOSS
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite MULTI-MODAL CRASH TYPES Bicycle	0 0 0 0 0 0 0 0 <b>K</b>	0 0 1 0 0 0 0 0 0 <b>A</b>	3 2 1 0 0 0 0 <b>B</b> 1	9 8 1 0 0 0 0 0 <b>C</b>	24 39 7 16 4 1 0 <b>PDO</b>	36 49 10 17 4 1 0 <b>TOT.</b> 2	\$ \$ \$ \$ \$ \$ \$	-2,017,200 1,839,200 1,099,600 389,800 43,200 10,800 - ECON. LOSS 340,000
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite MULTI-MODAL CRASH TYPES Bicycle Pedestrian	0 0 0 0 0 0 0 0 0 <b>K</b> 0 0	0 0 1 0 0 0 0 0 0 <b>A</b> 0 0	3 2 1 0 0 0 0 <b>B</b> 1 1	9 8 1 0 0 0 0 0 0 <b>C</b> 1 0	24 39 7 16 4 1 0 <b>PDO</b> 0 0	36 49 10 17 4 1 0 <b>TOT.</b> 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-2,017,200 -1,839,200 1,099,600 389,800 43,200 10,800 - - ECON. LOSS 340,000 217,00
Right-Angle Rear-End Left-Turn Angle Side-Swipe-Same Other Head-On Side-Swipe-Opposite MULTI-MODAL CRASH TYPES Bicycle Pedestrian	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 <b>A</b> 0 0	3 2 1 0 0 0 0 <b>B</b> 1 1	9 8 1 0 0 0 0 0 <b>C</b> 1 0	24 39 7 16 4 1 0 <b>PDO</b> 0 0	36 49 10 17 4 1 0 <b>TOT.</b> 2 1	\$ \$ \$ \$ \$ \$ \$ \$ \$	-2,017,200 -1,839,200 1,099,600 389,800 43,200 10,800 - - ECON. LOSS 340,000 217,000

ROAD C	ONDI	TIONS	LIGHT COND	DITIONS	DRIVER BEHA	VIOR		SEASON			CURVE	ТҮРЕ		CAUSA	TION		VEHICLE DAMAGE	
DRY	97	73%	DAY 97	73%	ALCOHOL	4	3%	SPRING	32	24%	HORZ	1	1%	ROR	12	9%	OTHER/UNK.	9
WET	23	17%	DARK 35	27%	DRUGS	4	3%	SUMMER	31	23%	VERT	0	0%	FTY	37	28%	NONE	8
SNOW	12	9%	TOT. 132		SPEED	8	6%	FALL	34	26%				DTC	13	10%	VERY MINOR	4
ICE	0	0%						WINTER	35	27%	INTERS	естіо	N	ROR = RUN	I-OFF-ROA	D	MINOR	77
OTH.	0	0%						TOT.	132		INT	85	64%	FTY =			MODERATE	78
TOT.	132		NOTES:											FAILURE T	FIY = FAILURE TO YIELD		SEVERE	75
			Injury crashe	es have be	en vetted.									DTC = DISREGARDED			VERY SEVERE	0
														TRAFFIC C	ONTROL		TOTAL VEHICLES	251

DAY/	TIME T	RENDS	5																								
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 A M	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	2	2	3	0	0	0	1	0	0	0	MON	12
TUE	0	0	0	0	0	0	0	0	2	2	1	1	0	1	2	4	2	3	0	1	1	1	2	0	0	TUE	23
WED	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	2	5	2	0	1	2	0	0	0	0	WED	19
THU	0	0	0	0	0	0	0	1	2	0	1	1	1	1	1	1	0	1	0	0	0	1	2	1	0	THU	14
FRI	0	0	0	0	1	1	0	1	1	0	2	1	1	1	0	2	3	1	3	0	1	2	2	1	0	FRI	24
SAT	0	1	1	0	0	0	1	0	1	3	1	2	3	2	1	2	1	0	4	1	0	3	1	0	0	SAT	28
SUN	1	0	0	0	0	0	0	0	0	0	0	1	2	3	0	2	1	1	0	0	0	1	0	0	0	SUN	12
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	2	1	1	0	1	1	2	3	7	6	5	7	10	9	5	15	14	11	7	3	4	9	7	2	0	тот.	132

# **Corridor Safety Analysis**



5 Years

Location:	N Pontiac Dr (Holiday Dr to Milton Ave)
Municipality:	Janesville
County:	Rock
Length of Corridor:	0.3 miles
GPS Coordinates	(Start): 42.713741, -88.989278

TOTAL CRASHES	106
AVG. CRASHES/YEA	R: 21.2
CRASH RATE: Orange = Higher than average, Red = Hig	2152.8 per 100MVM ther than Upper Control Limit (UCL)
KAB CRASH RATE:	121.9 per 100MVM
ECONOMIC LOSS*:	\$ 4,626,000
*KA=\$684K, B=\$217K, C=\$12	23K, PDO=\$10.8K



 To:
 12/31/2020
 0
 Months

 AADT:
 8,427
 MAP

 Peer Group:
 Urban Streets
 MAP

 GPS Coordinates (End):
 42.718289, -88.989551
 MAP

1/1/2016

From:

YEAR	к	Α	В	с	PDO	тот.	EC	ON. LOSS
2016	0	0	0	7	24	31	\$	1,120,200
2017	0	0	2	3	11	16	\$	921,800
2018	0	0	2	6	13	21	\$	1,312,400
2019	0	0	0	4	18	22	\$	686,400
2020	0	0	2	0	14	16	\$	585,200
TOTAL	0	0	6	20	80	106	\$	4,626,000

K = Fatal, A = Incapacitating Injury, B = Non-Incapacitating Injury, C = Possible Injury, PDO = Property Damage Only

WI AVG. CRASH RATE & (UCL): 343.55, (427.1) WI AVG. KAB CRASH RATE & (UCL): 39.69, (68.09)



RUN-OFF-ROAD CRASH TYPES	К	Α	В	С	PDO	тот.	ECON. LOSS
Fixed-Object	0	0	0	1	2	3	\$ 144,600
Other	0	0	0	0	2	2	\$ 21,600
Ditch	0	0	0	0	2	2	\$ 21,600
Tree	0	0	0	0	0	0	\$ -
Overturn	0	0	0	0	0	0	\$ -
Guardrail	0	0	0	0	0	0	\$ -
Median Barrier	0	0	0	0	0	0	\$ -
Fence	0	0	0	0	0	0	\$ -
Bridge	0	0	0	0	0	0	\$ -
Immersion	0	0	0	0	0	0	\$ -
MULTI-VEHICLE CRASH TYPES	К	Α	В	С	PDO	тот.	ECON. LOSS
Rear-End	0	0	1	12	30	43	\$ 2,017,000
Right-Angle	0	0	3	1	10	14	\$ 88 <mark>2,000</mark>
Head-On	0	0	2	1	2	5	\$ 578, <mark>600</mark>
Side-Swipe-Same	0	0	0	2	24	26	\$ 505,2 <mark>00</mark>
Left-Turn Angle	0	0	0	3	8	11	\$ 455,4 <mark>00</mark>
Other	0	0	0	0	0	0	\$ -
Side-Swipe-Opposite	0	0	0	0	0	0	\$ -
MULTI-MODAL CRASH TYPES	К	Α	В	С	PDO	тот.	ECON. LOSS
Pedestrian	0	0	0	0	0	0	\$ -
Bicycle	0	0	0	0	0	0	\$ -
ALL CRASH TYPES	0	0	6	20	80	106	\$ 4,626,000

ROAD C	ONDI	rions	LIGHT	COND	ITIONS	DRIVER BEHA	VIOR		SEASON			CURVE 1	ТҮРЕ		CAUSA	TION		VEHICLE DAMAGE	
DRY	80	75%	DAY	86	81%	ALCOHOL	3	3%	SPRING	28	26%	HORZ	2	2%	ROR	7	7%	OTHER/UNK.	5
WET	20	19%	DARK	20	19%	DRUGS	1	1%	SUMMER	21	20%	VERT	1	1%	FTY	23	22%	NONE	7
SNOW	5	5%	TOT.	106		SPEED	6	6%	FALL	20	19%				DTC	9	8%	VERY MINOR	5
ICE	1	1%							WINTER	37	35%	INTERSE	стю	N	ROR = RUN	I-OFF-RO	AD	MINOR	71
OTH.	0	0%							TOT.	106		INT	73	69%	FTV =			MODERATE	77
TOT.	106		NOTES	:											FAILURE T	D YIELD		SEVERE	40
	Injury Crashes have been ve		en vetted.									DTC = DISF	EGARDE	)	VERY SEVERE	0			
															TRAFFIC CO	ONTROL		TOTAL VEHICLES	205

DAY/	AY/TIME TRENDS																										
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 A M	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
MON	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	2	1	0	0	0	1	0	0	1	0	MON	9
TUE	0	0	0	0	0	0	0	0	2	0	0	0	3	6	0	3	4	0	0	1	0	0	1	0	0	TUE	20
WED	1	0	0	0	0	0	0	2	1	0	0	3	2	0	1	1	4	1	3	0	0	0	0	0	0	WED	19
THU	0	0	0	0	0	0	0	0	1	0	1	1	3	1	2	2	2	1	3	1	0	0	0	0	0	THU	18
FRI	0	0	0	0	0	0	0	0	0	1	0	2	2	3	2	1	2	2	1	1	1	0	0	0	0	FRI	18
SAT	0	0	0	1	0	0	0	0	0	1	1	0	2	1	1	2	1	1	0	2	0	0	0	0	0	SAT	13
SUN	1	0	0	0	0	0	0	0	0	1	1	0	3	0	0	1	0	1	1	0	0	0	0	0	0	SUN	9
	12 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 A M	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	UNK		TOT.
тот.	2	0	0	1	0	0	0	2	5	3	4	6	16	11	7	12	14	6	8	5	2	0	1	1	0	тот.	106

**APPENDIX C** 

# PEDESTRIAN RISK ASSESSMENT CRITERIA DEVELOPMENT

TADI

# Pedestrian Risk Assessment Criteria Development



PROVIDING TRAFFIC ENGINEERING SOLUTIONS

#### PEDESTRIAN RISK ASSESSMENT CRITERIA DEVELOPMENT

Pedestrian crashes occur less frequently than motor vehicle crashes, therefore, traditional (reactive) methods of safety analysis based on pedestrian crash history can do a poor job at predicting where pedestrian crashes are most likely to occur.

Thus, TADI's team of Road Safety Professionals (RSP), certified through the Transportation Professional Certification Board, sought solutions for proactively evaluating pedestrian safety. TADI's team developed a method using objective, science-based criteria to calculate pedestrian crash risk based on the amount of exposure to a potential hazard a pedestrian would be subjected to walking along and crossing a roadway. This approach, which relies on research regarding the impact various roadway and traffic characteristics have on pedestrian safety, provides a data-driven method to proactively evaluate pedestrian safety.

The fundamental criteria shown below is then used to calculate a numerical pedestrian risk at a specific location or along a specific walking route.

#### **Walking Along Criteria**

Distance Walked Available Walking Path Traffic Volume Vehicle Speeds Parking Activity Pedestrian Activity

#### **Crossing Criteria**

Crossing Width Traffic Volume Vehicle Speeds Risk Adjustments Existing Safety Features Pedestrian Activity

#### WALKING ALONG EXPOSURE SCORE

The walking along exposure score for each segment is calculated by multiplying the factors of each of the six *Walking Along* criteria.

Walking Along Exposure Score =  $W_D * W_P * W_V * W_S * W_R * W_{PED}$ 

where:

- *W*<sub>D</sub> = distance walked (mi),
- *W*<sub>P</sub> = available walking path,
- $W_V$  = hourly traffic volume,
- *W*<sub>S</sub> = posted speed limit,
- $W_R$  = parking activity and sight distance restrictions, and

 $W_{PED}$  = pedestrian activity.

#### Distance Walked (W<sub>D</sub>)

The numerical value for walking distance,  $W_D$ , is the number of miles a pedestrian walks along the particular segment being analyzed.



#### Available Walking Path (W<sub>P</sub>)

Numerical values for available walking path,  $W_P$ , are based on crash modification factors developed from research that showed sidewalks resulted in an 88% reduction in pedestrian crash risk<sup>1</sup> and that paved shoulders of at least 4 feet results in a 71% reduction in pedestrian crash risk<sup>2</sup>. The categories used in selecting  $W_P$  are shown in the following table.

Category	$W_P$
Walking Path ≥ 10 feet from Thru Lane	1
Sidewalk without Driveways	5
Sidewalk with Driveways	10
≥4 feet	25
<4 feet*	50
None	85

The values above were estimated based on the results of the referenced research. For example, the value of 10 used for the "*Sidewalk with Driveways*" category is 88 percent less than the value of 85 used for the "*None*" category [85 \* (1 - 0.88) = 10].

Most sidewalk crashes occur at driveway conflict points, thus stretches of sidewalk that do not have conflicting driveways are expected to have lower crash risk. Roadways with no access points have been shown to have crash reductions of up to 44 percent for all crash types<sup>3</sup>. Thus, stretches of sidewalk that do not have conflicting driveways, "Sidewalks without Driveways", are expected to have a lower crash risk than sidewalks that cross driveways. The lower risk for sidewalks without driveways is reflected in the scoring criteria.

Lastly, when sidewalks or pathways do not have conflicting driveways, and have a large buffer zone from the travel lane, the risk to pedestrians is further reduced. To account for pathways with a large buffer, a category for pathways separated from the thru-lane of roadway travel by 10 feet or more was included and assigned a low risk exposure factor.

#### Hourly Traffic Volume (W<sub>V</sub>)

Numerical values for hourly traffic volume,  $W_V$ , assumes a linear relationship that more traffic volume will lead to more risk exposure to a pedestrian. The categories used in selecting  $W_V$  are shown in the following table and represent the peak hour of traffic volumes. If peak hour volumes were not available but daily traffic counts were available, the peak hour volumes were estimated to be 10 percent of the daily traffic volumes.

Category	$W_V$	Category	$W_V$	Category	$W_V$	
≤ 200	1	1,001-1,200	11	2,001-2,200	21	
201-400	3	1,201-1,400	13	2,201-2,400	23	
401-600	5	1,401-1,600	15	2,401-2,600	25	
601-800	7	1,601-1,800	17	2,601-2,800	27	
801-1,000	9	1,801-2,000	19	2,801-3,000	29	

<sup>&</sup>lt;sup>1</sup> McMahon, P., Zegeer, C., Duncan, C., Knoblauch, R., Stewart, R., and Khattak, A., "An Analysis of Factors Contributing to 'Walking Along Roadway' Crashes: Research Study and Guidelines for Sidewalks and Walkways," FHWA-RD-01-101, (March 2002).

<sup>&</sup>lt;sup>2</sup> Gan, A., Shen, J., and Rodriguez, A., "Update of Florida Crash Reduction Factors and Countermeasures to improve the Development of District Safety Improvement Projects." Florida Department of Transportation, (2005).

<sup>&</sup>lt;sup>3</sup> Lee, C., Xu, X., and Nguyen, V, "Non-intersection-related Crashes at Mid-block in an Urban Divided Arterial Road with High Truck Volume." Presented at the 90th Meeting of the Transportation Research Board, Washington, D.C., (2011).



#### Posted Speed Limit (Ws)

Numerical values for posted speed limit,  $W_S$ , are based on a AAA research<sup>4</sup> regarding speed and pedestrian injury risk. The categories used in selecting  $W_S$  are shown in the following table.

Category	$W_S$	Category	$W_S$
≤25 or NP^	1.0	40	3.0
25	1.5	45	3.1
30	2.0	50	3.2
35	2.5	55	3.3

^NP = not posted

#### Parking Activity & Sight Distance Restrictions (W<sub>R</sub>)

Limited research is available that specifically isolates the impact of parking on pedestrian crash risk with regard to walking along roadways, but it is known that limiting sight distance increases crash risk<sup>5</sup>. When a sidewalk is not available, parking activity is expected to increase the risk of pedestrian crashes as pedestrians would need to navigate around parked vehicles. This activity would put pedestrians closer to the travel lanes and could create sight distance restrictions as they navigate around vehicles.

The numerical values for parking activity and sight distance restrictions,  $W_R$ , were estimated based on research regarding sight distance for injury crashes of all crash types. The categories used in selecting  $W_R$  are shown in the following table and defined below.

Category	$W_R$	Definitions
N/A - Sidewalk	1.0	A sidewalk is present.
No Parking	1.0	Parking is not allowed or rarely used.
Light Parking	1.2	Sporadically parked vehicles.
Moderate Parking	1.5	Approximately half of available on-street parking spaces are parked in.
Heavy Parking <u>or</u>	2.0	Majority of the available parking spaces are parked in <u>or</u> another sight
Other Sight Distance		distance restriction, such as horizontal or vertical curvature exists that could
Restriction		impede the visibility of pedestrians.

#### Pedestrian Activity (WPED)

A greater number of pedestrians walking along a roadway will increase the overall chance of a pedestrian crash occurring due to greater pedestrian exposure. Therefore, the numerical values for pedestrian activity factor,  $W_{PED}$ , increase as the pedestrian activity increases on a segment and are shown in the table below.

Category	$W_{PED}$
Very Low	1.0
Low	2.0
Medium	3.0
High	4.0
Very High	5.0

<sup>&</sup>lt;sup>4</sup> Tefft, B.C. (2011). Impact Speed and a Pedestrian's Risk of Severe Injury or Death. AAA Foundation for Traffic Safety.

<sup>&</sup>lt;sup>5</sup> Elvik, R. and Vaa, T., "Handbook of Road Safety Measures." Oxford, United Kingdom, Elsevier, (2004)



#### **CROSSING EXPOSURE SCORE**

The crossing exposure score for each crossing is calculated by multiplying the factors of each of the six *Crossing* criteria.

Crossing Exposure Score =  $C_W * C_V * C_S * C_R * C_E * C_{PED}$ 

where:

 $C_W$  = crossing width,

*Cv* = hourly traffic volume,

*Cs* = posted speed limit,

 $C_R$  = risk adjustments,

*C<sub>E</sub>* = existing safety feature adjustment, and

 $C_{PED}$  = pedestrian activity.

#### Crossing Width (Cw)

Numerical values for crossing width,  $C_W$ , are based on an assumed linear relationship that more distance to cross will lead to more risk exposure. The categories used in selecting  $C_W$  are shown in the following table.

Category	$C_W$	Category	$C_W$
≤ 10 ft	1	51-60 ft	6
11-20 ft	2	61-70 ft	7
21-30 ft	3	71-80 ft	8
31-40 ft	4	81-90 ft	9
41-50 ft	5	>90 ft	10

#### Hourly Traffic Volume (Cv)

Numerical values for hourly traffic volume, *Cv*, assumes a linear relationship that more traffic volume will lead to more risk exposure to a pedestrian. The categories used in selecting *Cv* are shown in the following table and represent the peak hour of traffic volumes. If peak hour volumes were not available but daily traffic counts were available, the peak hour volumes were estimated to be 10 percent of the daily traffic volumes.

Category	Cv	Category	Cv	Category	Cv
≤ 200	1	1,001-1,200	11	2,001-2,200	21
201-400	3	1,201-1,400	13	2,201-2,400	23
401-600	5	1,401-1,600	15	2,401-2,600	25
601-800	7	1,601-1,800	17	2,601-2,800	27
801-1,000	9	1,801-2,000	19	2,801-3,000	29



#### Posted Speed Limit (Cs)

Numerical values for posted speed limit,  $C_s$ , are based on a AAA research<sup>6</sup> regarding speed and pedestrian injury risk. The categories used in selecting  $C_s$  are shown in the following table and represent the posted speed of the roadway to be crossed.

Category	$C_S$	Category	$C_{S}$
≤25 or NP <sup>^</sup>	1.0	40	3.0
25	1.5	45	3.1
30	2.0	50	3.2
35	2.5	55	3.3

^NP = not posted

#### Risk Adjustments (C<sub>R</sub>)

Numerical values for risk adjustments, *C<sub>R</sub>*, are based on *CMF Clearinghouse* data regarding the impact of all-way stop control<sup>7</sup>, traffic signals with right-turn-on-red allowed<sup>8</sup> and sight distance restrictions<sup>9</sup>. Research has shown that these characteristics impact the likelihood of pedestrian related crashes. Intersections with all-way stop control, for instance, require all vehicles to stop thereby reducing vehicle speeds and reducing the risk to pedestrians. At signalized intersections, right-turn-on-reds (RTORs) can increase the risk to pedestrians as drivers can be focused on looking for approaching traffic to their left rather than looking for pedestrians in their path. Lastly, if the crossing has sight-distance restrictions, such as roadway curvature or nearby parking, applying the sight distance restrictions adjustment is suggested. The categories used in selecting *C<sub>R</sub>* are shown in the following table and include combination categories if all-way stop control or traffic signals with RTORs are combined with a sight distance restriction.

Category	$C_R$
Sight Distance Restriction	2.0
All-Way Stop Control All-Way Stop Control with Sight Distance Restriction	0.6 1.2
Traffic Signal with RTORs	
Traffic Signal with RTORs and Sight Distance Restriction	

<sup>&</sup>lt;sup>6</sup> Tefft, B.C. (2011). Impact Speed and a Pedestrian's Risk of Severe Injury or Death. AAA Foundation for Traffic Safety.

<sup>&</sup>lt;sup>7</sup> Lovell, J. and Hauer, E., "The Safety Effect of Conversion to All-Way Stop Control." Transportation Research Record 1068, Washington, D.C., Transportation Research Board, National Research Council, (1986) pp. 103-107.

<sup>&</sup>lt;sup>8</sup> American Association of State Highway and Transportation Officials. Highway Safety Manual. Washington, DC, 2010.

<sup>&</sup>lt;sup>9</sup> Elvik, R. and Vaa, T., "Handbook of Road Safety Measures." Oxford, United Kingdom, Elsevier, (2004)



#### Existing Safety Features (CE)

At roadway and intersection crossings, there are several safety improvements that have been shown to reduce the risk of pedestrian crashes. Numeric values for safety treatment adjustment,  $C_E$ , are based on research showing certain treatments reduce the risk of pedestrian crashes. Note that only one treatment can be selected for this analysis and it is suggested that the most effective treatment be chosen. For example, if the crossing has a high visibility crosswalk and a pedestrian countdown timer, the factor of 0.3 for pedestrian countdown timer is suggested. The categories used in selecting  $C_E$  are shown in the following table and are based on crash modification factors from either the Wisconsin DOT's Crash Modification Factor Spreadsheet<sup>10</sup> or the Crash Modification Factor Clearinghouse<sup>11</sup>.

Research is limited on the specific safety benefit of crossing guards – which are difficult to isolate in studies. It is reasonable to conclude, however, that the safety benefits of crossing guards are expected to exceed that of engineering countermeasures. In a 2009 study of school zones in Florida<sup>12</sup>, it was stated "perhaps the clearest observation from the site visits and data analysis conducted for the 14 school sites throughout Florida was the great beneficial value of school crossing guards". It is suggested that sites with a crossing guard or guards be provided with a high-visibility crosswalk to help users of the crosswalk and the roadway recognize the importance of the crossing.

Category	$C_E$	Category	$C_E$
Multiple Crossing Guards	0.1	Rectangular Rapid Flash Beacon	0.5
Single Crossing Guard	0.2	High-Visibility Crosswalk	0.6
Pedestrian Hybrid Beacon	0.25	Median Refuge	0.7
Pedestrian Countdown Timer	0.3	Standard Crosswalk	1.0

#### Pedestrian Activity (CPED)

A greater number of pedestrians crossing a roadway will increase the overall chance of a pedestrian crash occurring due to greater pedestrian exposure. Therefore, the numerical values for the pedestrian activity factor, C<sub>PED</sub>, increase as the pedestrian activity increases at a crossing and are shown in the table below.

Category	$W_{PED}$
Very Low	1.0
Low	2.0
Medium	3.0
High	4.0
Very High	5.0

<sup>&</sup>lt;sup>10</sup> <u>https://wisconsindot.gov/Pages/doing-bus/local-gov/traffic-ops/manuals-and-standards/teops/ch12.aspx</u>

<sup>&</sup>lt;sup>11</sup> www.cmfclearinghouse.org/

<sup>&</sup>lt;sup>12</sup> Study of school zones with traffic signals: final report, June 2009. M3 - Tech Report M1 - Report No. 7762-110 UR https://rosap.ntl.bts.gov/view/dot/17495/dot 17495 DS1.pdf

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**APPENDIX D** 

# SIGNALS AND ITS STANDALONE PROGRAM OVERVIEW



July 2021

SISP

### General

In 2013, the Wisconsin State Legislature provided the ability for the State to appropriate funds for installation, replacement or rehabilitation of traffic signals and intelligent transportation systems (ITS) not incidental to another highway improvement in **Wisconsin Statute 84.06(13)**.

The Signals and ITS Standalone Program was established in 2013 to manage the appropriated funds for the purpose of addressing signals and ITS needs not incidental to another highway improvement project. The following sections describe the program and how projects are developed, evaluated, prioritized, and awarded.

## Applicability

The SISP funds are available for projects with greater than fifty percent cost associated with traffic signal or ITS hardware and construction. All state (including Interstate) and connecting highways are eligible for program funds. Statewide or State maintained facility projects are eligible for full program funds. Maximum project award is limited to a total of \$600,000 with a limit of \$500,000 per State fiscal year.

Those projects on connecting highways are eligible for 90% program funds with a 10% cost sharing component from the maintaining agency. All funds are required to be encumbered within the fiscal year of award. Multi-year projects are eligible for program funds, however, must be released and encumbered within each designated fiscal year.

## **Project Identification & Development Resources**

The SISP is focused on the installation, replacement or rehabilitation of traffic signals and ITS projects. Projects are developed by local, regional, or statewide Bureau of Traffic Operations (BTO) staff.

Project identification and development resources are available through the Transportation Systems Management and Operations Traffic Infrastructure Process (TSMO–TIP) which is an annual process to consider operational needs and potential solutions throughout the State. Needs identification and project benefit tools have been created to assist with project development. Although the process is primarily focused on ITS project types, the information can be used to assist with several project types.

Those projects required to be vetted through the TSMO – TIP must be supported by the sponsoring WisDOT region prior to applying for funding within the SISP. The following project types are identified within the program application and defined as follows. SISP program funds cannot be used to fund decorative signal poles, decorative cabinets, or decorative signal infrastructure.

- 1. New Signal Installation Install new traffic signal.
- 2. Signal Rehabilitation Upgrade, install or replace existing signal detection, controllers, battery backup, etc.; construct minor geometric improvement.
- 3. Signal Retrofit Install monotubes, flashing yellow arrows, or other safety improvements at existing traffic signal; install adaptive signal systems.

- 4. Signal Retiming Collect and evaluate data; develop signal timing plan; develop and implement corridor coordination plan. Municipal projects are not eligible for SISP funding to retime signals.
- 5. Intersection Communication Construct and integrate fiber communication for signals; install and integrate wireless communication, including cellular modems and radios, for signals.
- 6. New ITS Device Installation Install new ITS infrastructure, including cameras, backbone fiber, network equipment, etc.
- 7. ITS Device Rehabilitation Upgrade, install or replace existing detection, controllers, battery backup, cameras, ramp meter LED's, etc.
- 8. System Software Upgrade, install, or replace software.
- 9. Life Cycle Replacements Replace existing end-of-life signals and/or ITS equipment components including cameras, controllers, LED's, etc. Municipal projects are not eligible for SISP funding to replace life cycle components.
- 10. Other Examples include:
  - Performance Measures Applications
  - Research and Development Projects
  - CAV Deployments and Applications
  - Studies, Plans, and Evaluations

### **Project Application Process & Requirements**

## **Application Cycle**

The SISP applications are evaluated and awarded on a biannual cycle. Project applications are considered in the Spring and Fall prior to the disbursement of funds at the beginning of the following fiscal year which begins July 1st.

## Application Submittal

The SISP application consists of general project information; explanation of anticipated benefits that will be provided by the proposed project; project cost and schedule information; project contact; and managerial support. Any other relevant information, such as maps, support documentation, etc., is requested to be attached to the application. Those projects that are required to complete a TSMO-TIP package should attach the supported documentation with the application as well.

Completed regional and connecting highway application forms should be submitted to the Regional SISP Liaison. The Region will consider all the applications for the upcoming funding cycle and rank the projects according to regional priority. It is critical that the municipality work with the Regional SISP Liaison to communicate the need for a particular project so that it is ranked accurately within the Region. Each Region will submit the applications and regional rankings by the deadline each application cycle. Municipalities may only submit two applications per calendar year (i.e.-2 applications in Spring, 1 application in Spring and 1 application in Fall, or 2 applications in Fall) for consideration.

### **Project Evaluation and Prioritization Process**

The SISP evaluation and prioritization methodology is established to consistently and objectively appropriate funds. Projects are evaluated, scored, and prioritized by an evaluation committee. The SISP Evaluation Committee is created each programming cycle with one representative from each Region as well as statewide representation from BTO, safety, and signals.

The Evaluation Committee reviews project applications and populates a prioritization matrix. The prioritization matrix is used to score projects based on set criteria which are weighted based on the intent of the Program and input provided the Evaluation Committee. The Evaluation Committee reviews each application and determines the appropriate score for each criterion. Scoring is based on evaluation criteria rubrics that provide a guide to the Committee for consistent scoring. The scoring criteria include:

- Mobility
- Accountability
  - Operations and Maintenance
- Preservation
  - Lifecycle Replacement
  - Energy and Environment
- Safety

The Evaluation Committee scores are compiled, reviewed, and discussed during a one-day Prioritization Workshop. The Evaluation Committee prioritizes the applications and considers any multi-year project commitments for the forthcoming fiscal year. The Evaluation Committee then recommends projects for award based on available program funding and the committee prioritization. Regional representatives are notified of project awards.

Project contacts are asked to prepare project work plans for those awarded projects in advance of funding disbursement. It is expected that project managers will prepare for project implementation in advance of the appropriation disbursement such that funds may be encumbered as soon as possible.

## **Project Funding**

Approved statewide and regional SISP projects are funded with 100% Program funds. Sponsored projects on connecting highways are funded with 90% Program funds and a 10% match from local sources. Maximum project award is limited to a total of \$600,000 with a limit of \$500,000 per State fiscal year. In general, the agency sponsoring the project application (the signee of the SISP Project Application Form) is responsible for paying the 10% match. The agency responsible for the 10% match is also responsible for any costs over the project funding cap. Applicants have the flexibility to explore partnerships with other government agencies to share the responsibility of the required 10% match and any overages exceeding a project funding cap. It is important that the terms of any negotiated shared responsibility of a 10% match and any overages exceeding a project funding cap. Municipal Agreement (SMA).

All funds must be encumbered by the close of the fiscal year of award. A change in scope after formal SISP approval must be approved through the scope change process.