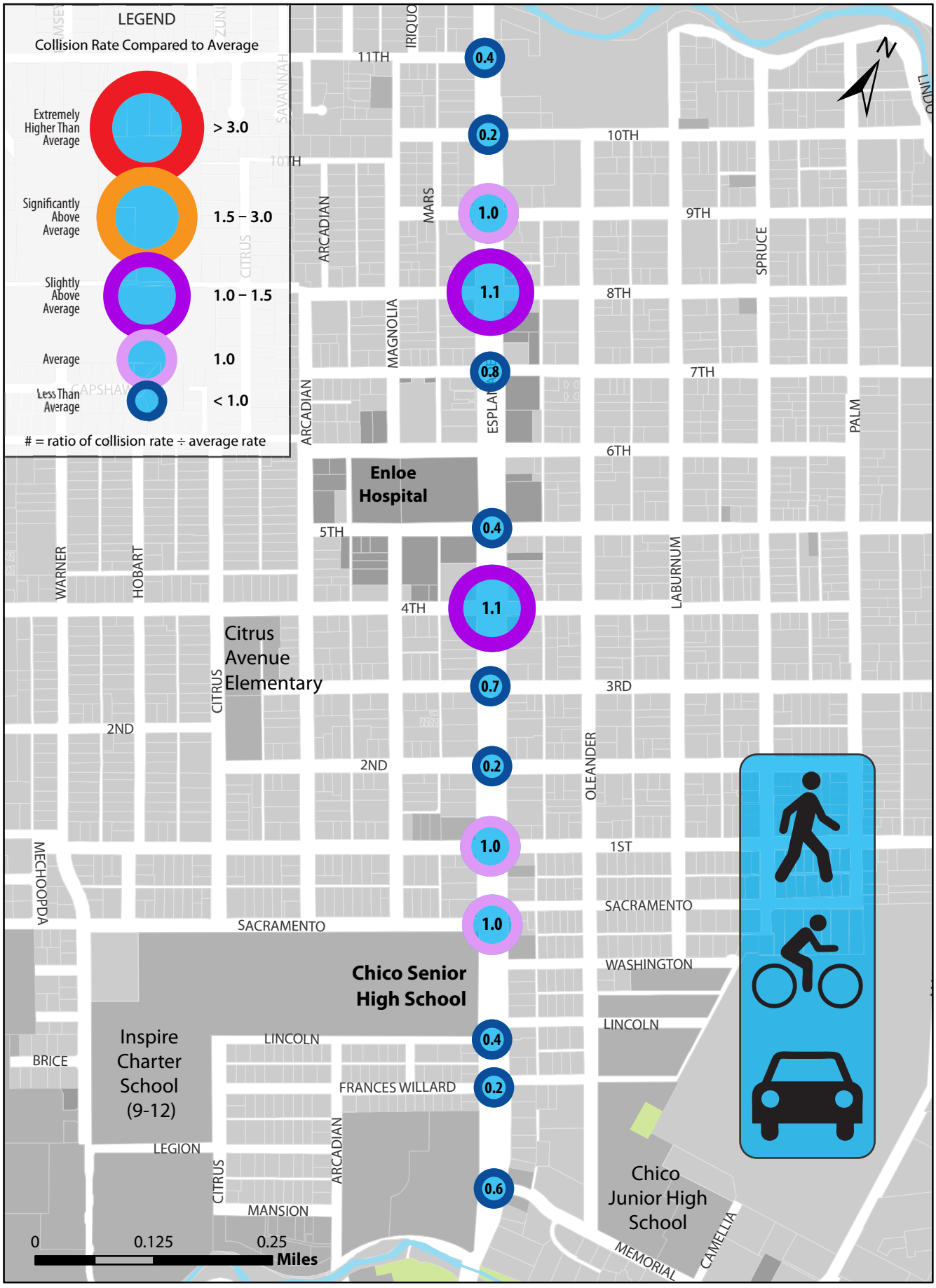
Appendix D

Collision Analysis



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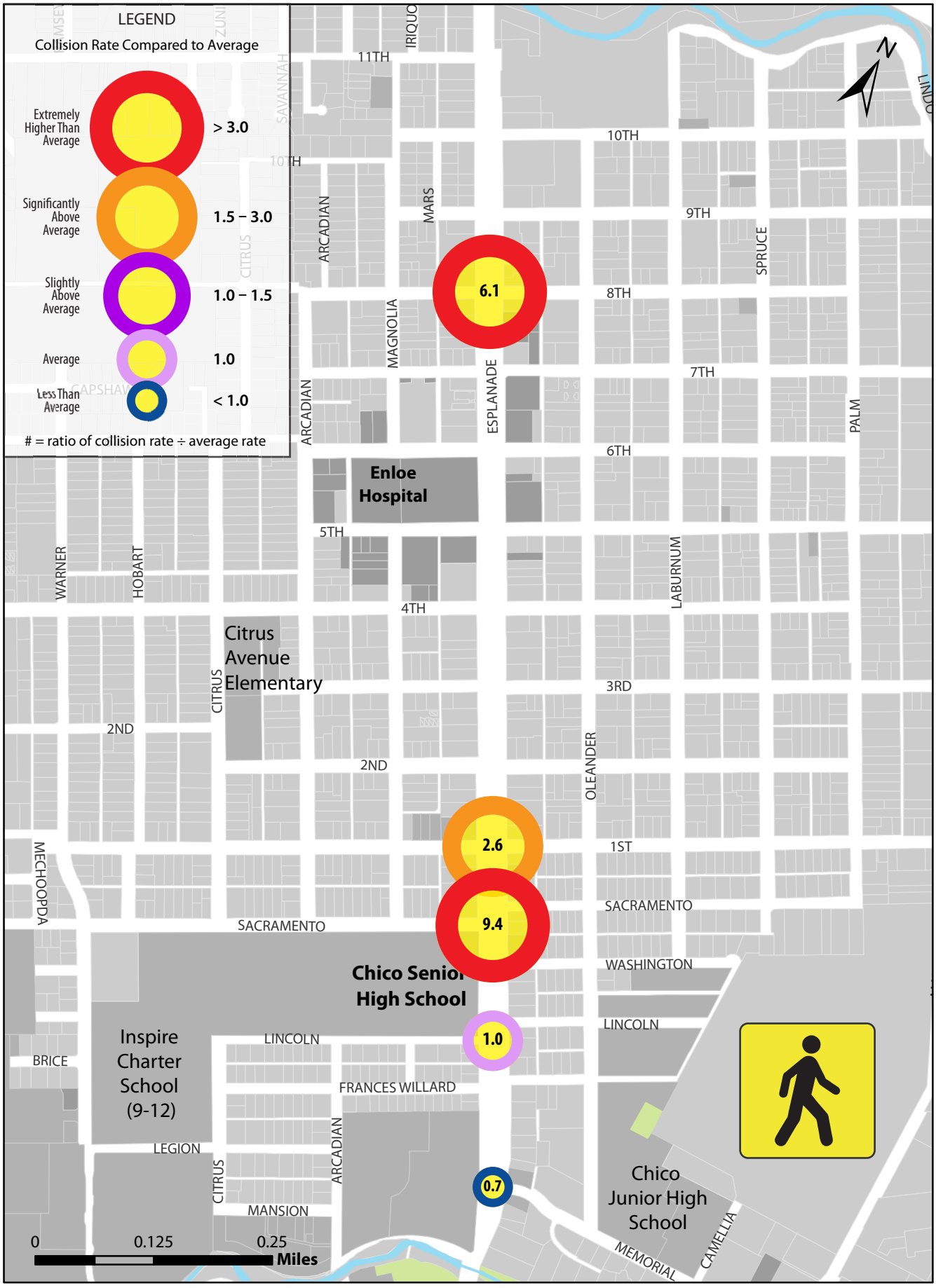
Esplanade Corridor Safety and Accessibility Study

Figure D-1 – All Collision Rates



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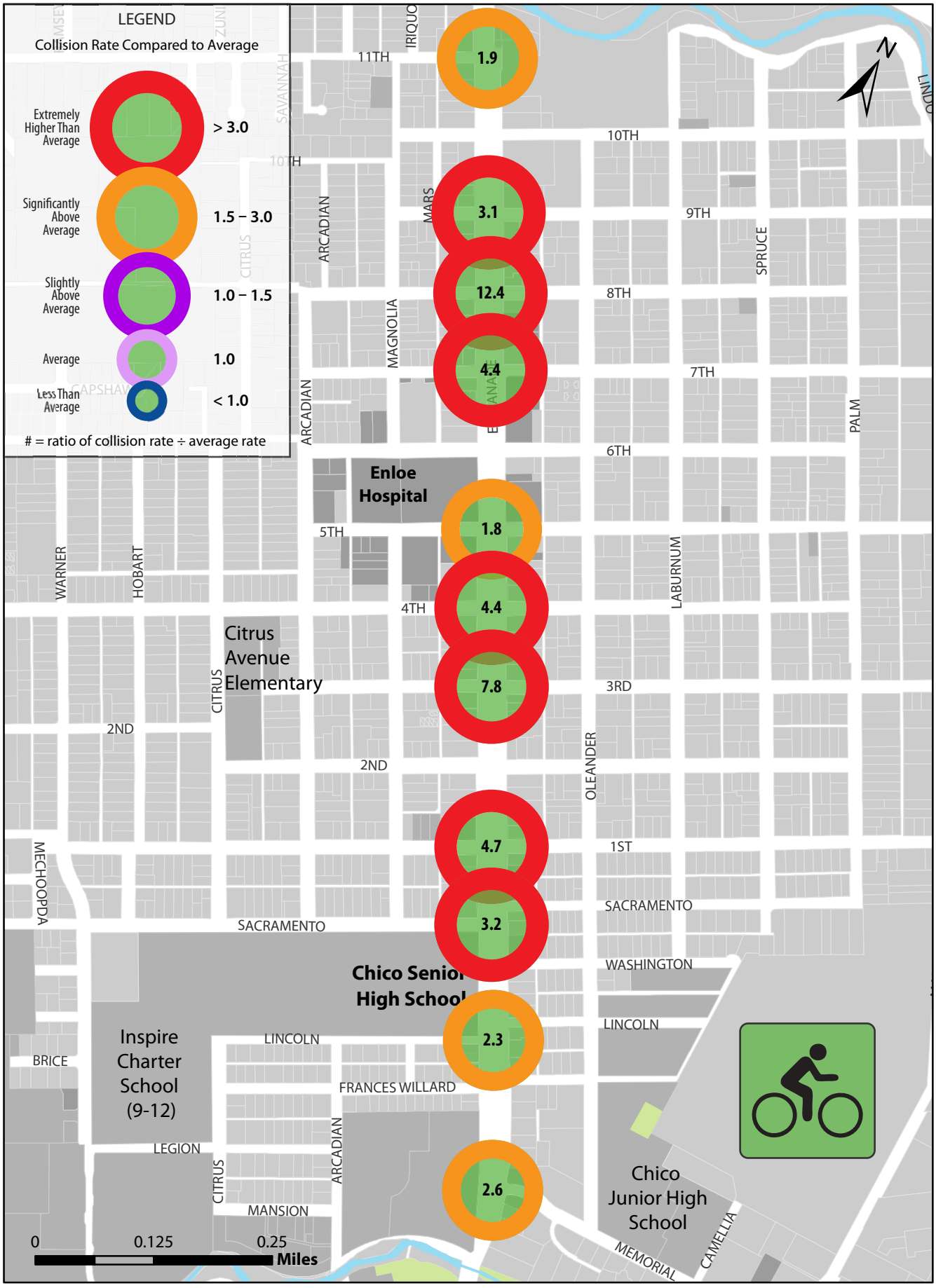
Esplanade Corridor Safety and Accessibility Study

Figure D-3 – Pedestrian Collision Rates

W-Trans



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Esplanade Corridor Safety and Accessibility Study

Figure D-2 – Bicycle Collision Rates

Intersection Collision Rate Calculations

Esplanade Area Complete Street Plan

Intersection # 1: Esplanade & Memorial Way

Date of Count: Thursday, May 14, 2015

Number of Collisions: 6
Number of Injuries: 5
Number of Fatalities: 0
ADT: 19000
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions} \times 1 \text{ Million}}{\text{ADT} \times 365 \text{ Days per Year} \times \text{Number of Years}}$$

$$\text{collision rate} = \frac{6 \times 1{,}000{,}000}{19{,}000 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.17 c/mve**	**0.0%**	**83.3%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 2: Esplanade & Frances Willard Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 1
Number of Injuries: 1
Number of Fatalities: 0
ADT: 21000
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions} \times 1 \text{ Million}}{\text{ADT} \times 365 \text{ Days per Year} \times \text{Number of Years}}$$

$$\text{collision rate} = \frac{1 \times 1{,}000{,}000}{21{,}000 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.03 c/mve**	**0.0%**	**100.0%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 3: Esplanade & Lincoln Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 4
Number of Injuries: 2
Number of Fatalities: 0
ADT: 20300
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{4 \times 1{,}000{,}000}{20{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.11 c/mve**	**0.0%**	**50.0%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 4: Esplanade & Sacramento Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 6
Number of Injuries: 5
Number of Fatalities: 0
ADT: 21300
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{6 \times 1{,}000{,}000}{21{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.15 c/mve**	**0.0%**	**83.3%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 5: Esplanade & 1st Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 14
Number of Injuries: 10
Number of Fatalities: 0
ADT: 28800
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{14 \times 1{,}000{,}000}{28{,}800 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.27 c/mve**	**0.0%**	**71.4%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 6: Esplanade & 2nd Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 1
Number of Injuries: 1
Number of Fatalities: 0
ADT: 19400
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{1 \times 1{,}000{,}000}{19{,}400 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.03 c/mve**	**0.0%**	**100.0%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 7: Esplanade & 3rd Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 7
Number of Injuries: 6
Number of Fatalities: 0
ADT: 20200
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{7 \times 1{,}000{,}000}{20{,}200 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.19 c/mve**	**0.0%**	**85.7%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 8: Esplanade & 4th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 6
Number of Injuries: 5
Number of Fatalities: 0
ADT: 20600
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{6 \times 1{,}000{,}000}{20{,}600 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.16 c/mve**	**0.0%**	**83.3%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 9: Esplanade & 5th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 5
Number of Injuries: 4
Number of Fatalities: 0
ADT: 22300
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{5 \times 1{,}000{,}000}{22{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.12 c/mve**	**0.0%**	**80.0%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 10: Esplanade & 6th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 0
Number of Injuries: 0
Number of Fatalities: 0
ADT: 20300
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{0 \times 1{,}000{,}000}{20{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.00 c/mve**	**0.0%**	**0.0%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 11: Esplanade & 7th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 8
Number of Injuries: 8
Number of Fatalities: 0
ADT: 21300
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{8 \times 1{,}000{,}000}{21{,}300 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.21 c/mve**	**0.0%**	**100.0%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 12: Esplanade & 8th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 7
Number of Injuries: 6
Number of Fatalities: 0
ADT: 22100
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{7 \times 1{,}000{,}000}{22{,}100 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.17 c/mve**	**0.0%**	**85.7%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 13: Esplanade & 9th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 11
Number of Injuries: 8
Number of Fatalities: 0
ADT: 21500
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{11 \times 1{,}000{,}000}{21{,}500 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.28 c/mve**	**0.0%**	**72.7%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection # 14: Esplanade & 10th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 1
Number of Injuries: 0
Number of Fatalities: 0
ADT: 19900
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Stop & Yield Controls
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{1 \times 1{,}000{,}000}{19{,}900 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.03 c/mve**	**0.0%**	**0.0%**
Statewide Average*	**0.15 c/mve**	**1.0%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Intersection Collision Rate Calculaions

Esplanade Area Complete Street Plan

Intersection # 15: Esplanade & 11th Avenue

Date of Count: Thursday, May 14, 2015

Number of Collisions: 4
Number of Injuries: 3
Number of Fatalities: 0
ADT: 22200
Start Date: January 1, 2010
End Date: December 31, 2014
Number of Years: 5

Intersection Type: Multi-Legged
Control Type: Signals
Area: Urban

$$\text{collision rate} = \frac{\text{Number of Collisions x 1 Million}}{\text{ADT x 365 Days per Year x Number of Years}}$$

$$\text{collision rate} = \frac{4 \times 1{,}000{,}000}{22{,}200 \times 365 \times 5}$$

	Collision Rate	Fatality Rate	Injury Rate
Study Intersection	**0.10 c/mve**	**0.0%**	**75.0%**
Statewide Average*	**0.27 c/mve**	**0.4%**	**41.9%**

ADT = average daily total vehicles entering intersection
c/mve = collisions per million vehicles entering intersection
* 2012 Collision Data on California State Highways, Caltrans

Chico Esplanade Collision Rates

Intersection with Esplanade	# of Bike and Ped Collisions (10 years)	Involved with Bike	Involved with Ped	Total Collisions (5 years)	Bike ADT	Ped ADT	Vehicle ADT	Bike Collision Rate	Ped Collision Rate	Vehicle Collision Rate	Statewide Average Collision Rate	Bike Rate Compared to Statewide Average	Ped Rate Compared to Statewide Average	Vehicle Rate Compared to Statewide Average
Memorial	4	3	1	6	1,150	1,388	19,040	0.71	0.20	0.17	0.27	2.6	0.7	0.6
Frances Willard	0	0	0	1	1,100	675	20,970	0.00	0.00	0.03	0.15	0.0	0.0	0.2
Lincoln	3	2	1	4	875	1,038	20,250	0.63	0.26	0.11	0.27	2.3	1.0	0.4
West Sacramento	4	2	2	6	1,150	388	21,320	0.48	1.41	0.15	0.15	3.2	9.4	1.0
1st	6	5	1	14	1,075	388	28,820	1.27	0.71	0.27	0.27	4.7	2.6	1.0
2nd	0	0	0	1	713	250	19,440	0.00	0.00	0.03	0.15	0.0	0.0	0.2
3rd	5	5	0	7	652	263	20,150	2.10	0.00	0.19	0.27	7.8	0.0	0.7
4th	1	1	0	6	413	225	20,570	0.66	0.00	0.16	0.15	4.4	0.0	1.1
5th	1	1	0	5	575	463	22,330	0.48	0.00	0.12	0.27	1.8	0.0	0.4
6th	0	0	0	0	488	313	20,320	0.00	0.00	0.00	0.15	0.0	0.0	0.0
7th	2	2	0	8	463	413	21,310	1.18	0.00	0.21	0.27	4.4	0.0	0.8
8th	5	4	1	7	588	300	22,120	1.86	0.91	0.17	0.15	12.4	6.1	1.1
9th	3	3	0	11	963	325	21,460	0.85	0.00	0.28	0.27	3.1	0.0	1.0
10th	0	0	0	1	888	350	19,890	0.00	0.00	0.03	0.15	0.0	0.0	0.2
11th	2	2	0	4	1,088	375	22,160	0.50	0.00	0.10	0.27	1.9	0.0	0.4
Average		**30.0**	**6.0**	**81.0**	**812.1**	**476.9**	**21343.3**	**0.71**	**0.23**	**0.13**	**0.21**	**3.2**	**1.3**	**0.6**

Note: All collision rates = # collisions per million vehicles (or bike or ped) entering intersection

Collision rate near the average (less than 1.5 x average)

Collision rate above the average by 1.5 to 2.5 x average

Collision rate above the average by 2.5 to 3.0 x average

Collision rate above the average by 3.0 x average and above

ACTIVE TRANSPORTATION PROGRAM

2016 GRANT APPLICATION
CYCLE III

CITY OF CHICO
PUBLIC WORKS DEPARTMENT
411 Main Street
Chico, California 95926

ESPLANADE SAFETY AND ACCESSIBILITY PROJECT

BICYCLE & PEDESTRIAN COLLISIONS - 2011-2016

PROJECT AERIAL

JUNE 2016

Esplanade □ E □st Ave

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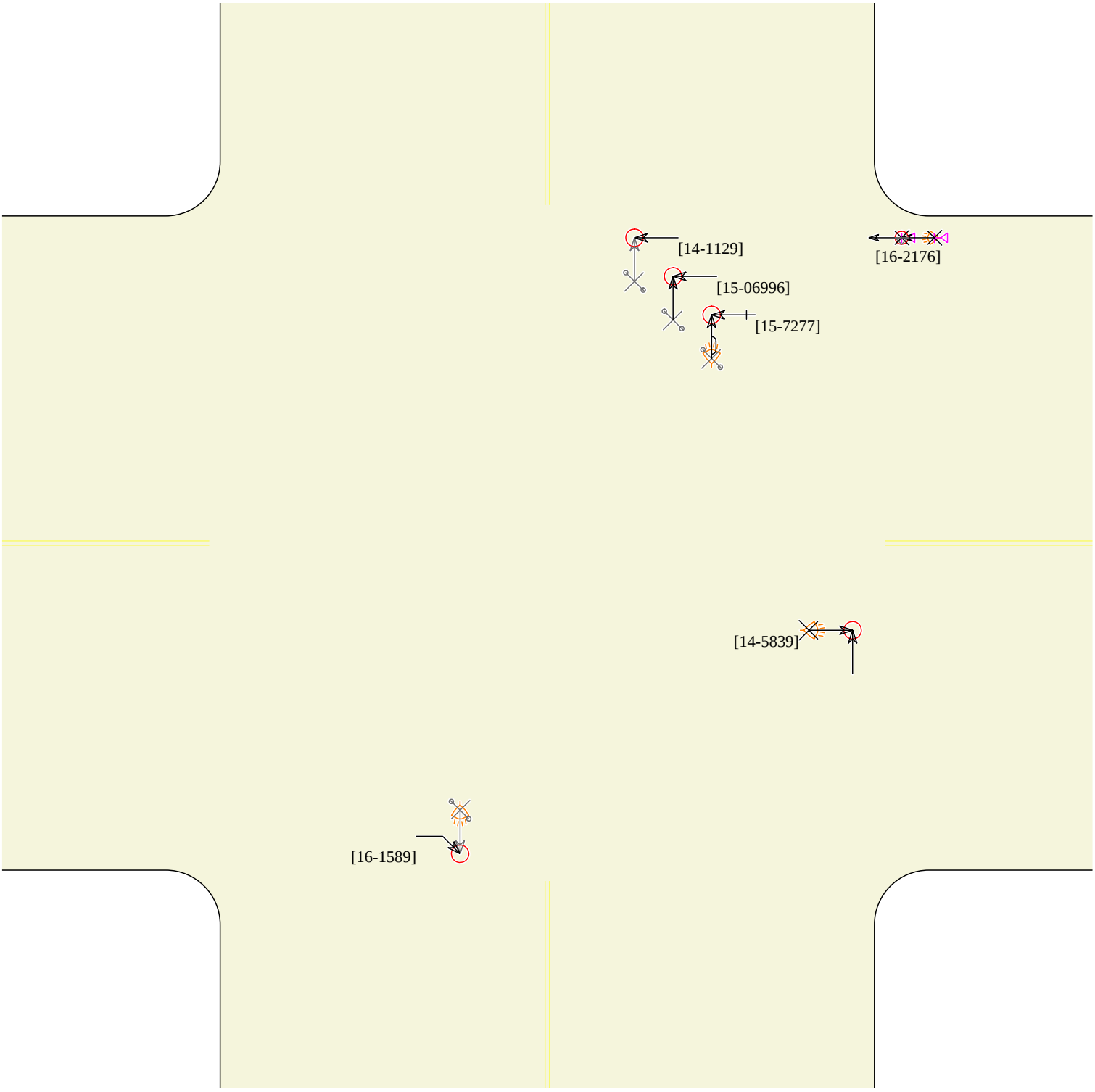
6 Crashes

Ped & Bike



(0) crashes could not be placed in this schematic

- Straight
- Stopped
- Unknown
- Backing
- Overtaking
- Sideswipe
- Parked
- Erratic
- Out of control
- Right turn
- Left turn
- U-turn
- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Oleander □ Memorial

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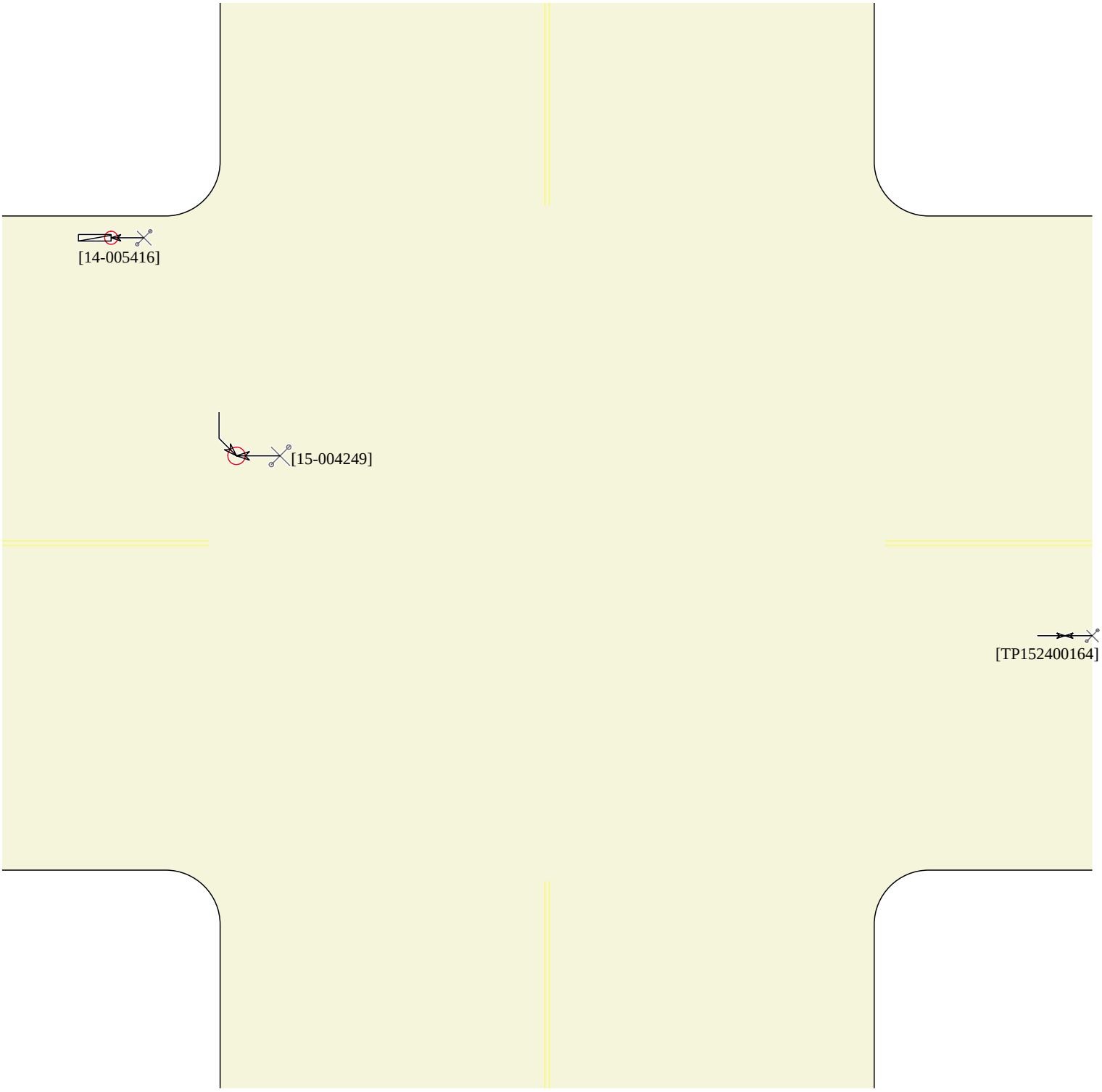
3 Crashes

Ped & Bike



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- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
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- Animal

- 3rd vehicle
- Extra data

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Oleander □ E Frances Willard

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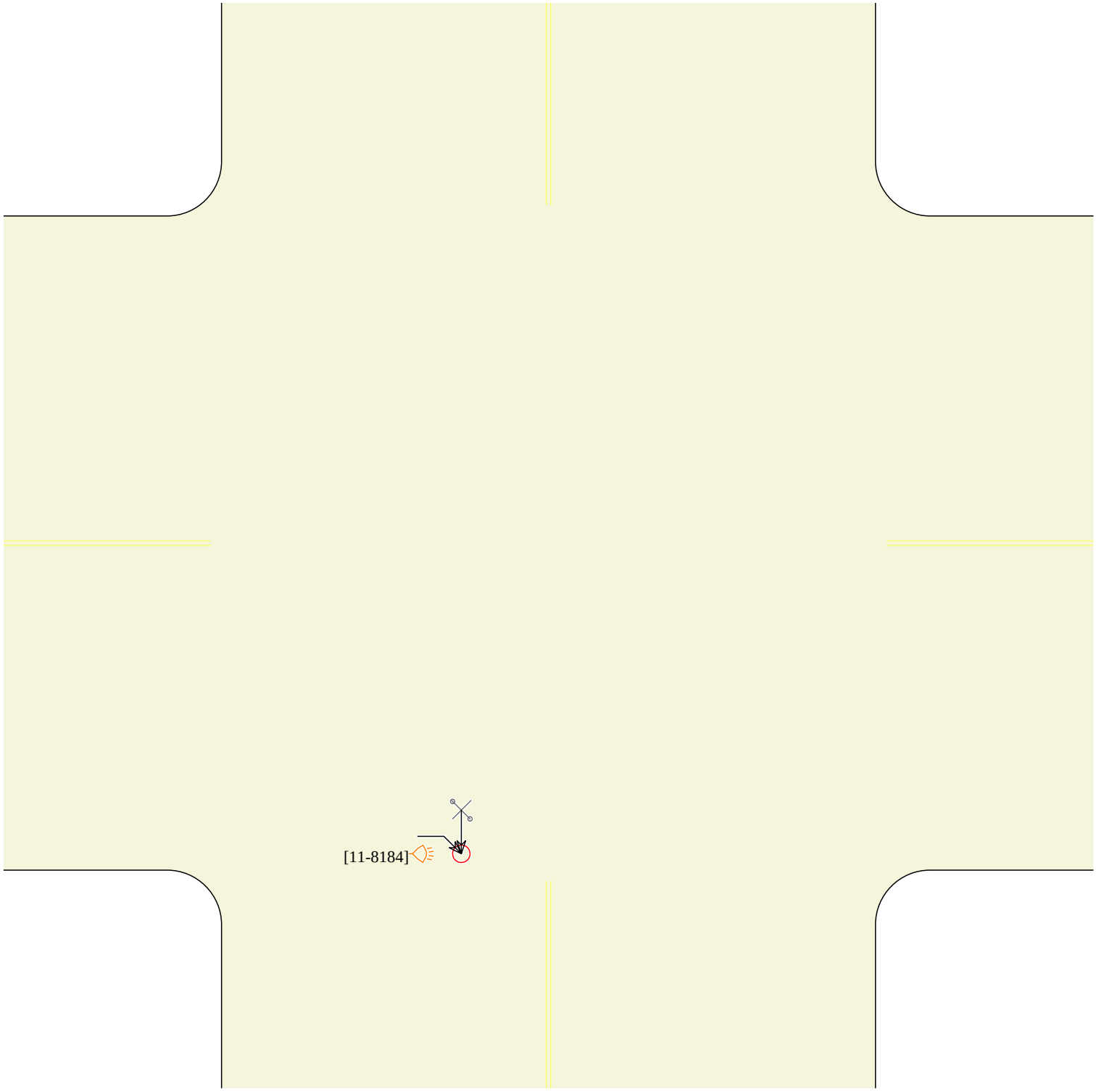
1 Crashes

Ped & Bike



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- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

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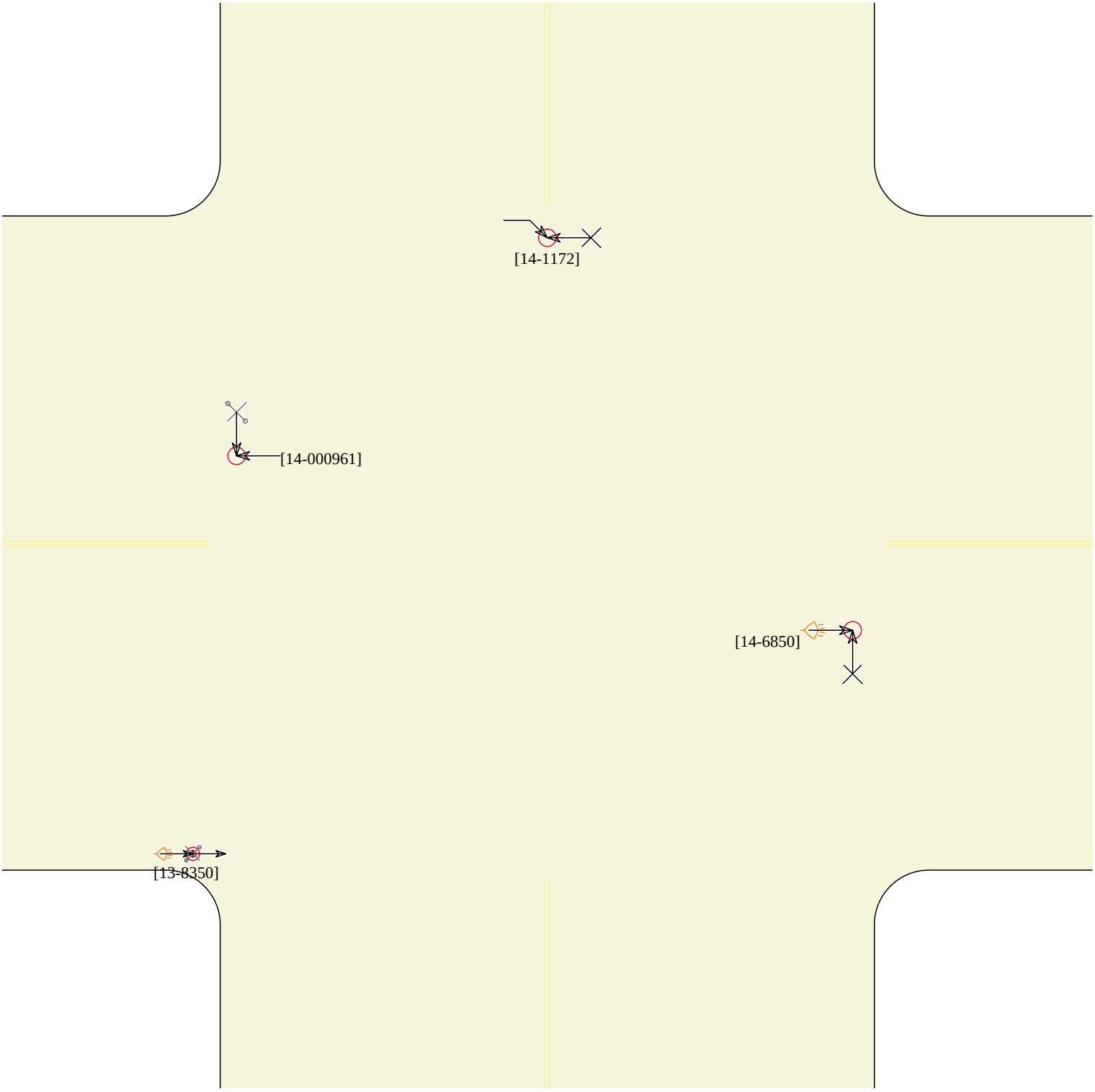
4 Crashes

Ped & Bike



(0) crashes could not be placed in this schematic

- Straight
- Stopped
- Unknown
- Backing
- Overtaking
- Sideswipe
- Parked
- Erratic
- Out of control
- Right turn
- Left turn
- U-turn
- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

ESPLANADE □ W SACRAMENTO AVE

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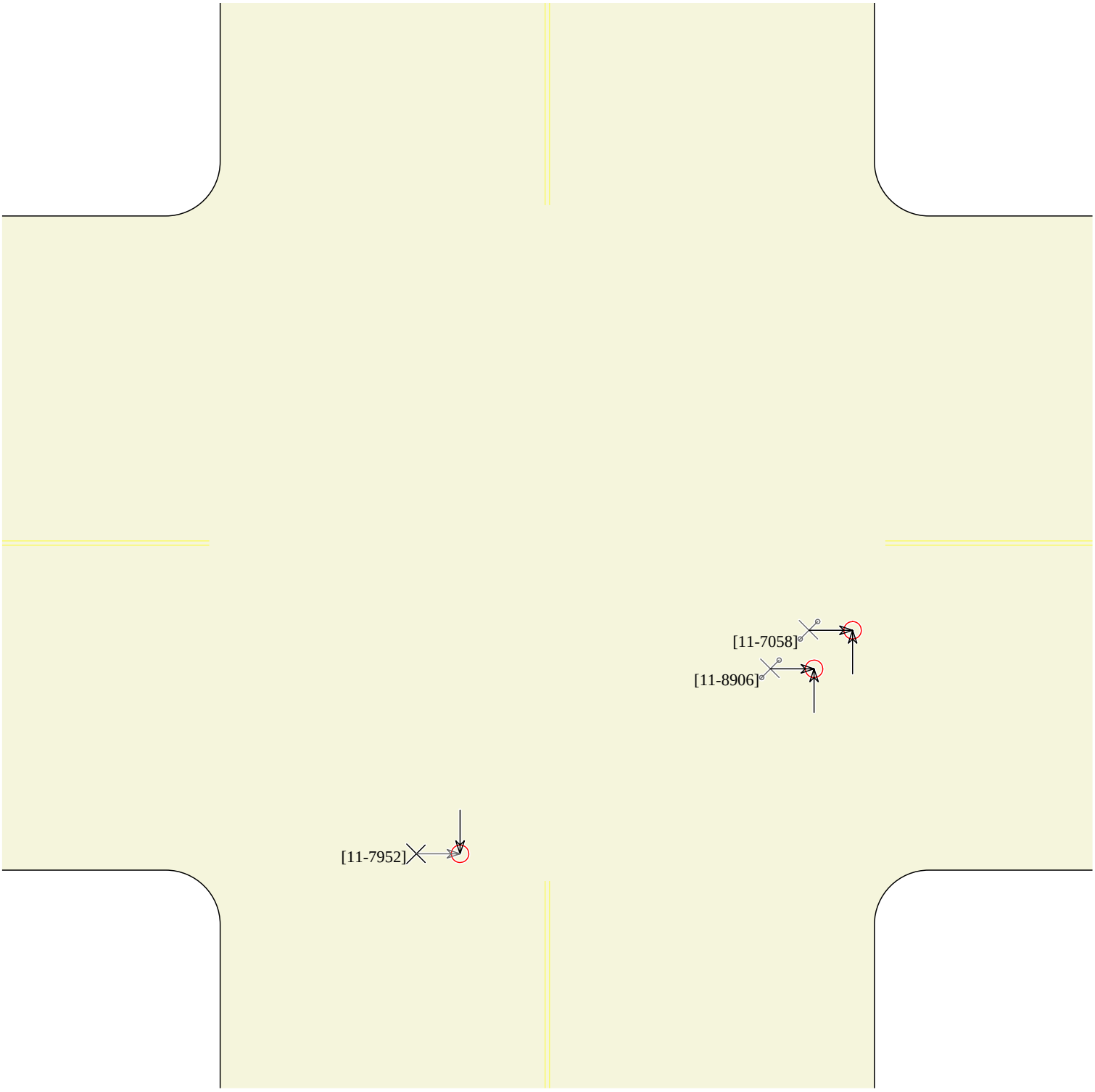
3 Crashes

Ped & Bike



(0) crashes could not be placed in this schematic

- Straight
- Stopped
- Unknown
- Backing
- Overtaking
- Sideswipe
- Parked
- Erratic
- Out of control
- Right turn
- Left turn
- U-turn
- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/6/2016

ESPLANADE □ W □□TH AVE

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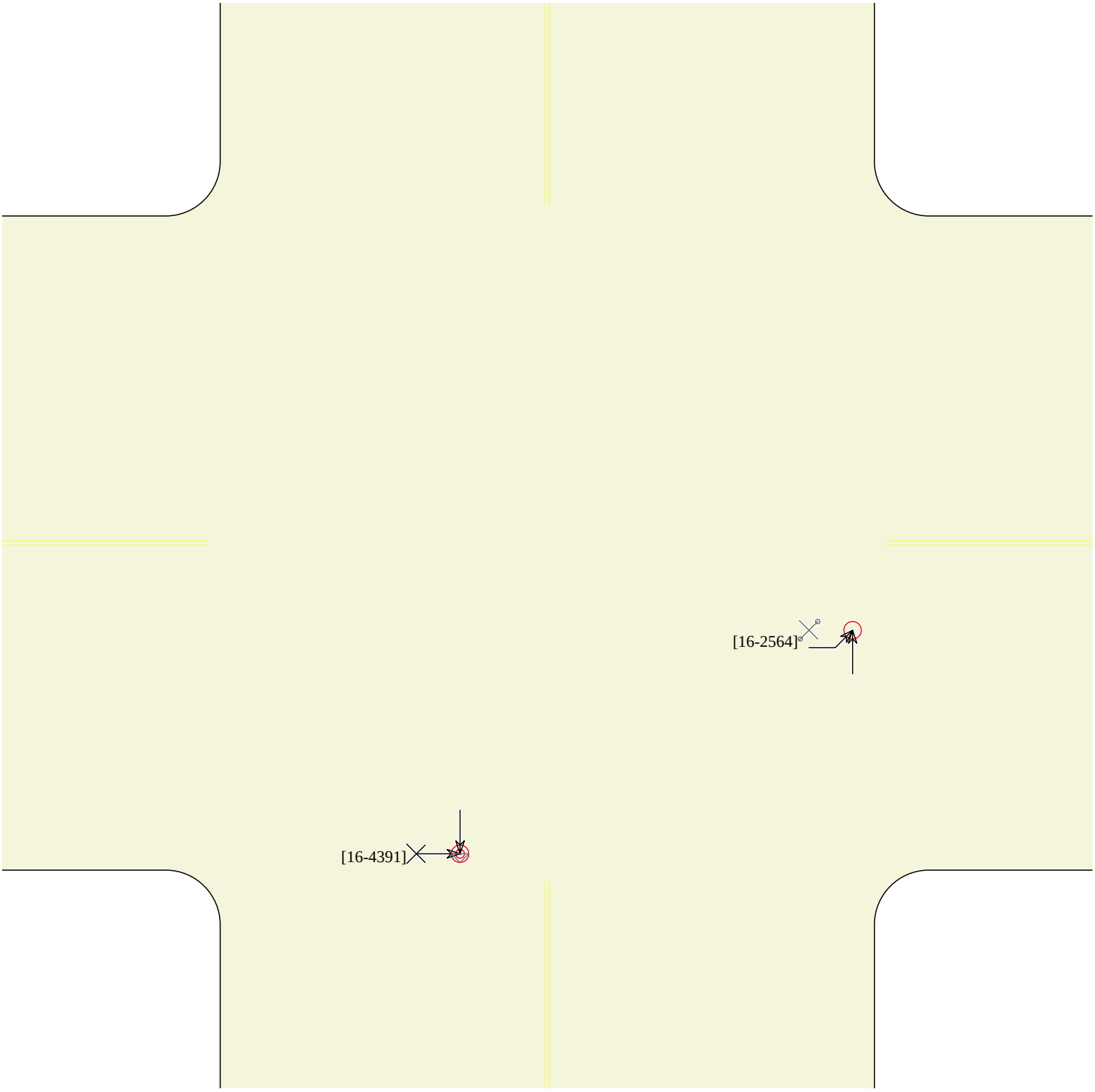
2 Crashes

Ped & Bike



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- Straight
- Stopped
- Unknown
- Backing
- Overtaking
- Sideswipe
- Parked
- Erratic
- Out of control
- Right turn
- Left turn
- U-turn
- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/13/2016

Esplanade □ W □th Ave

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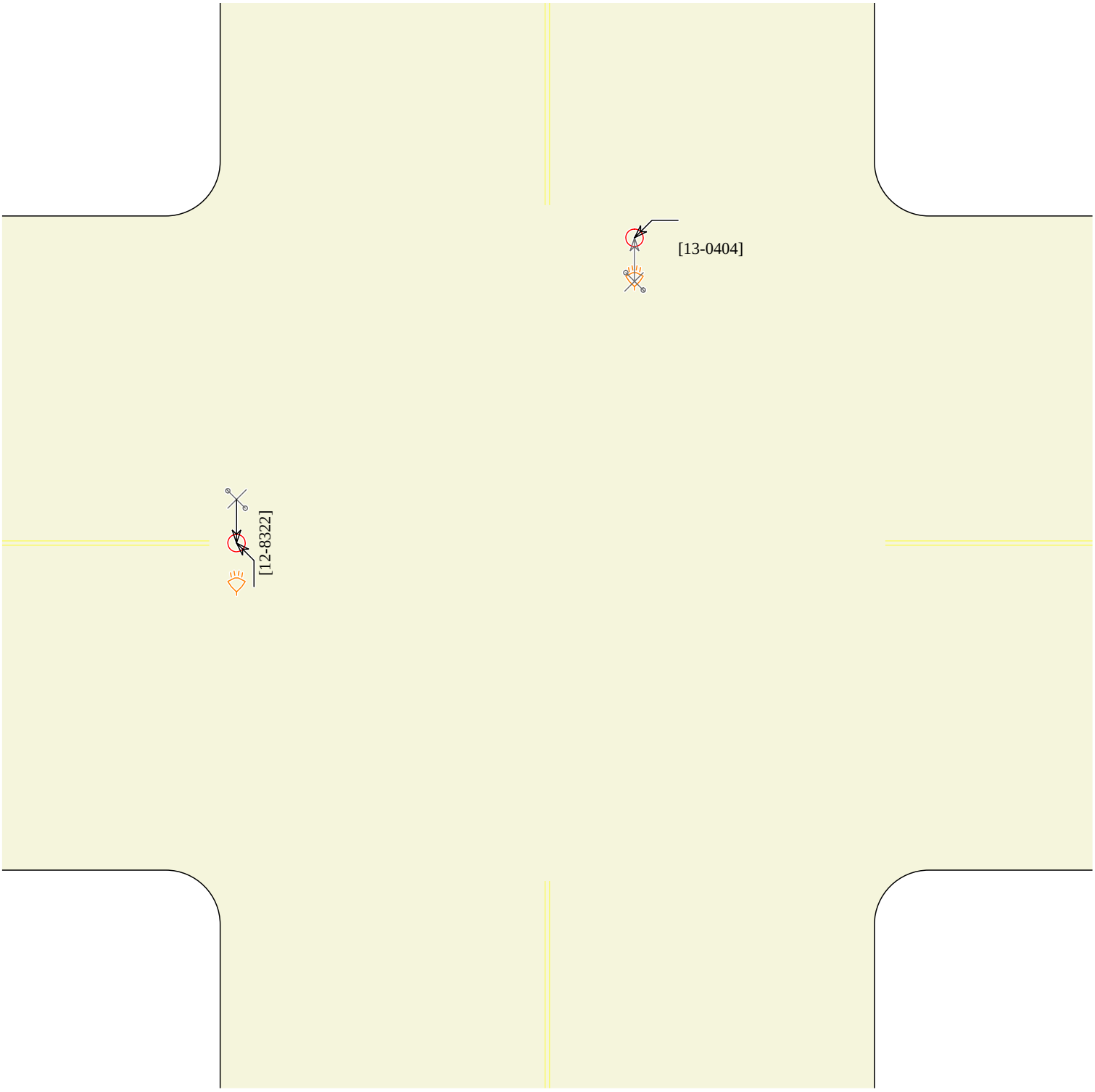
2 Crashes

Ped & Bike



(0) crashes could not be placed in this schematic

- Straight
- Stopped
- Unknown
- Backing
- Overtaking
- Sideswipe
- Parked
- Erratic
- Out of control
- Right turn
- Left turn
- U-turn
- Pedestrian
- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Esplanade □ W □th Ave

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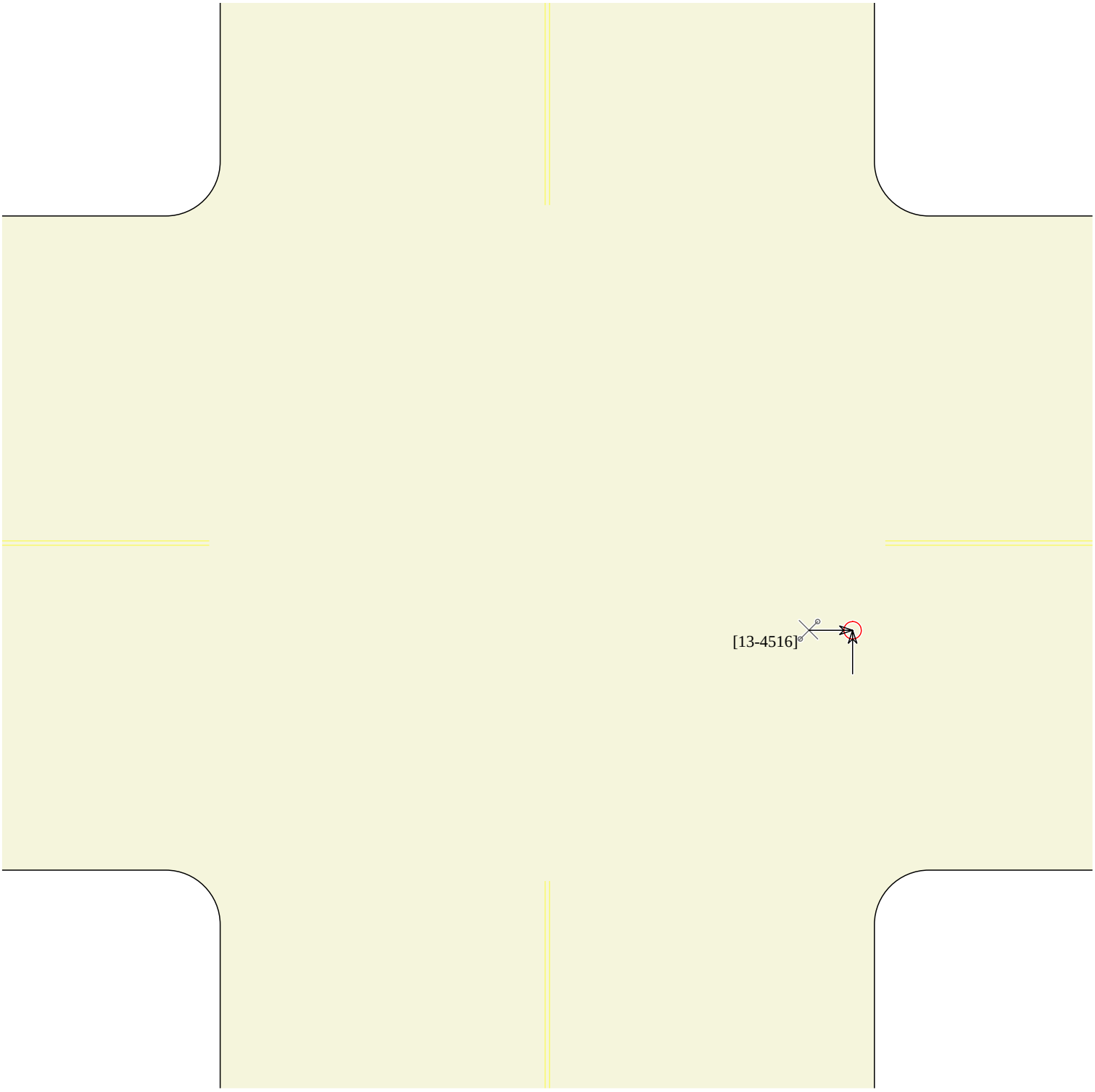
1 Crashes

Ped & Bike



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Fixed objects:

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- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Esplanade □ W □th Ave

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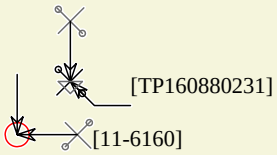
2 Crashes

Ped & Bike



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Fixed objects:

- General
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- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Esplanade □ W □th Ave

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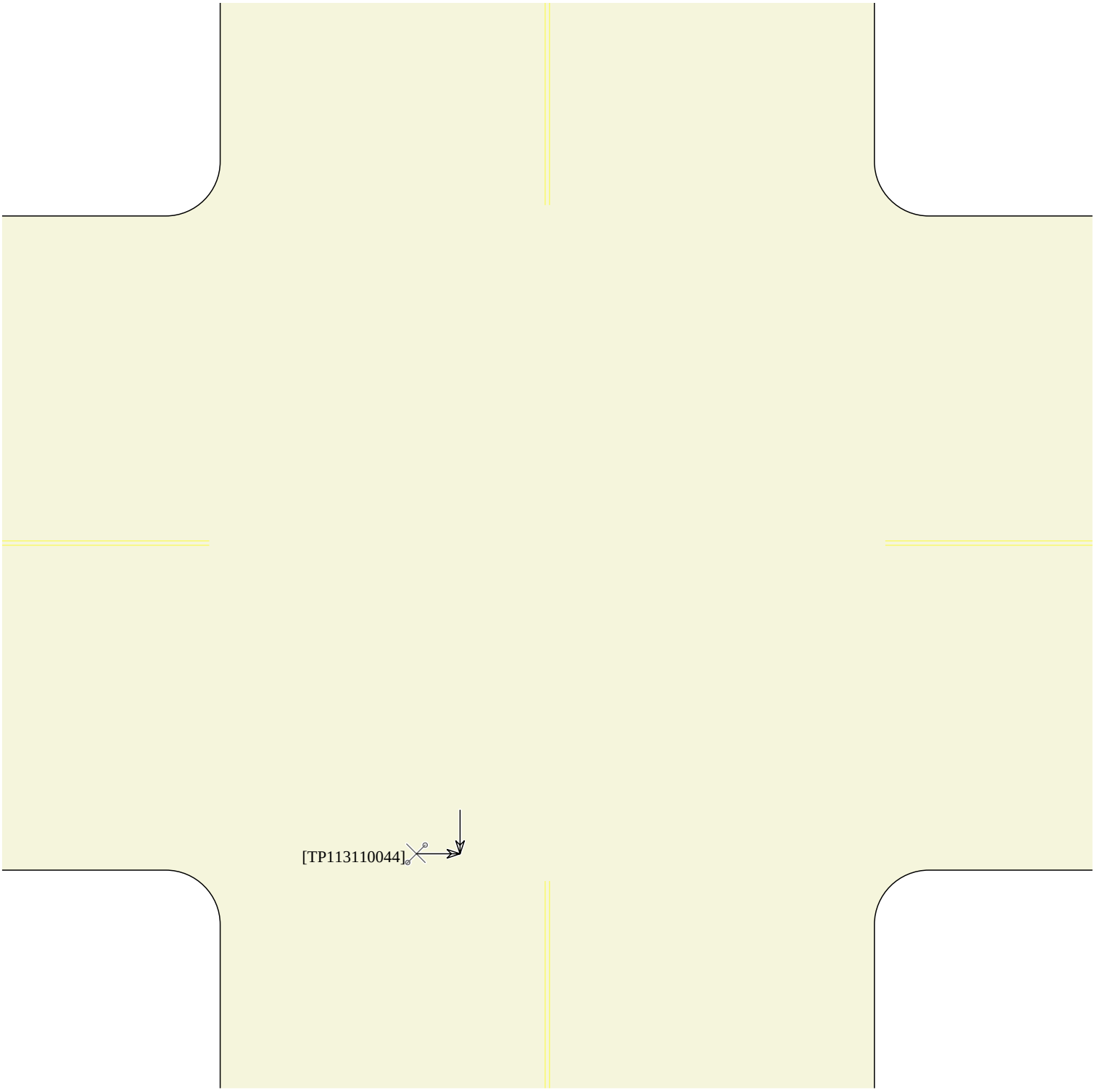
1 Crashes

Ped & Bike



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Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Esplanade □ W □rd Ave

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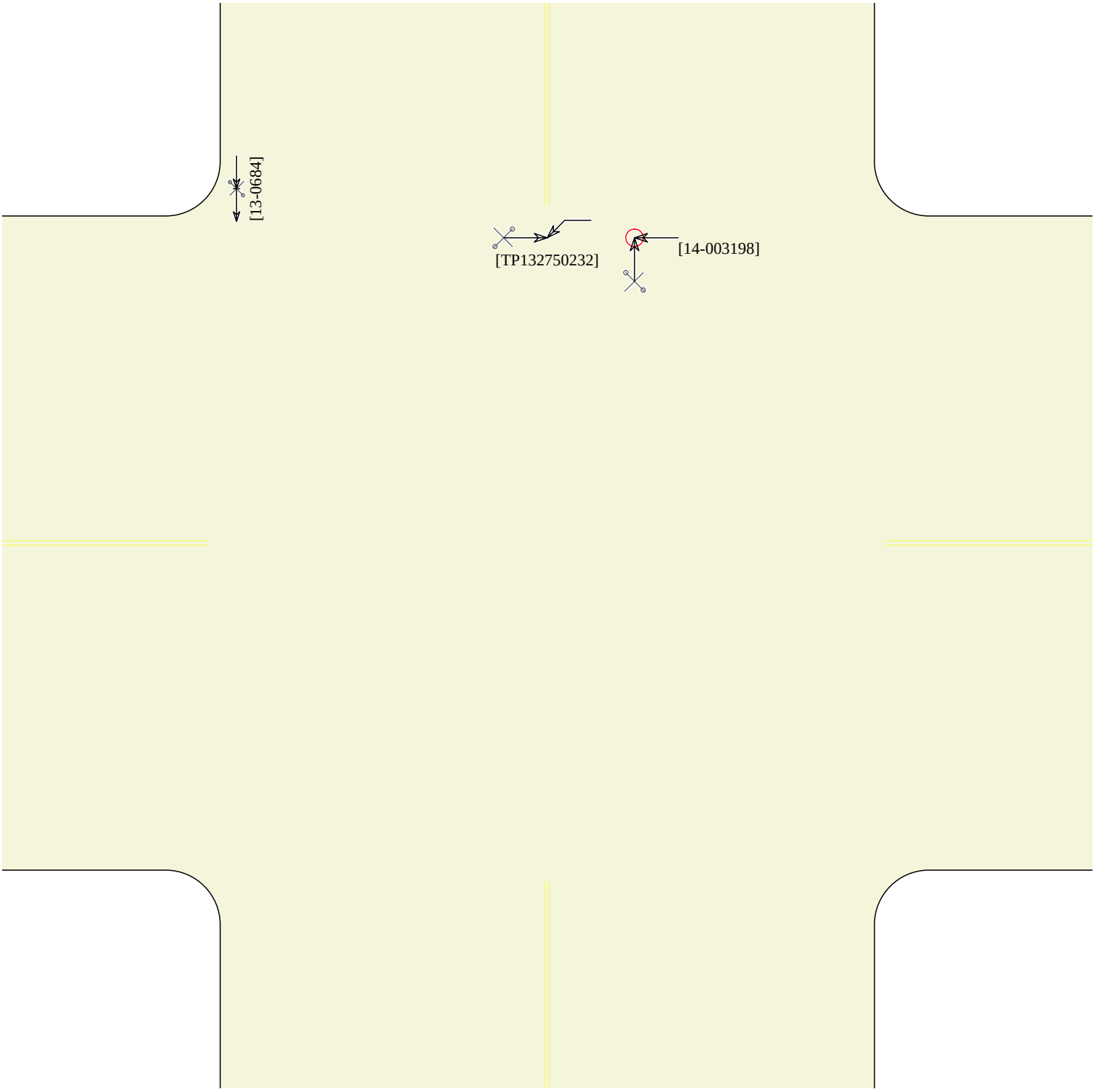
3 Crashes

Ped & Bike



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Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/7/2016

Esplanade □ W □st Ave

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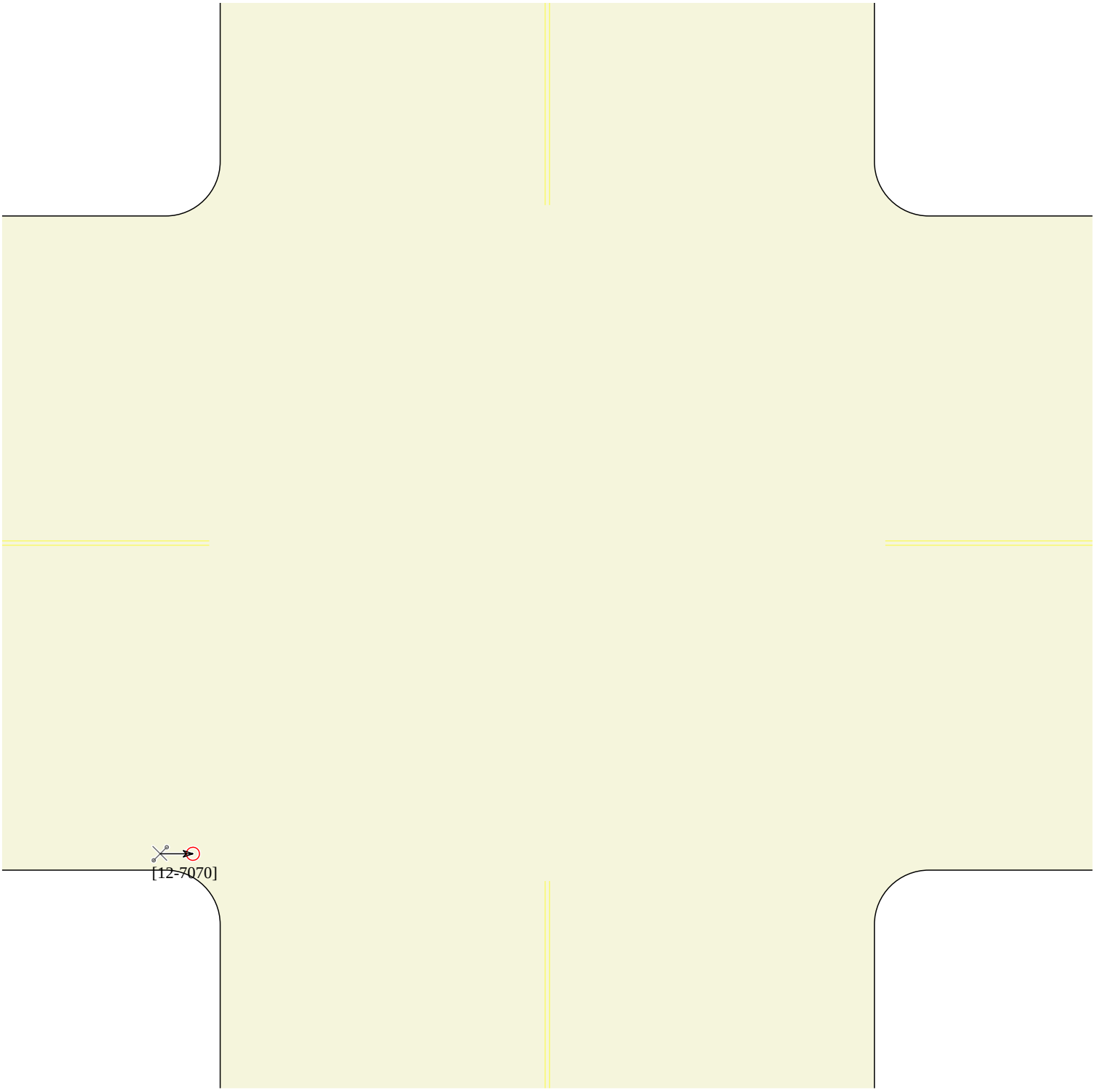
1 Crashes

Ped & Bike



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Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

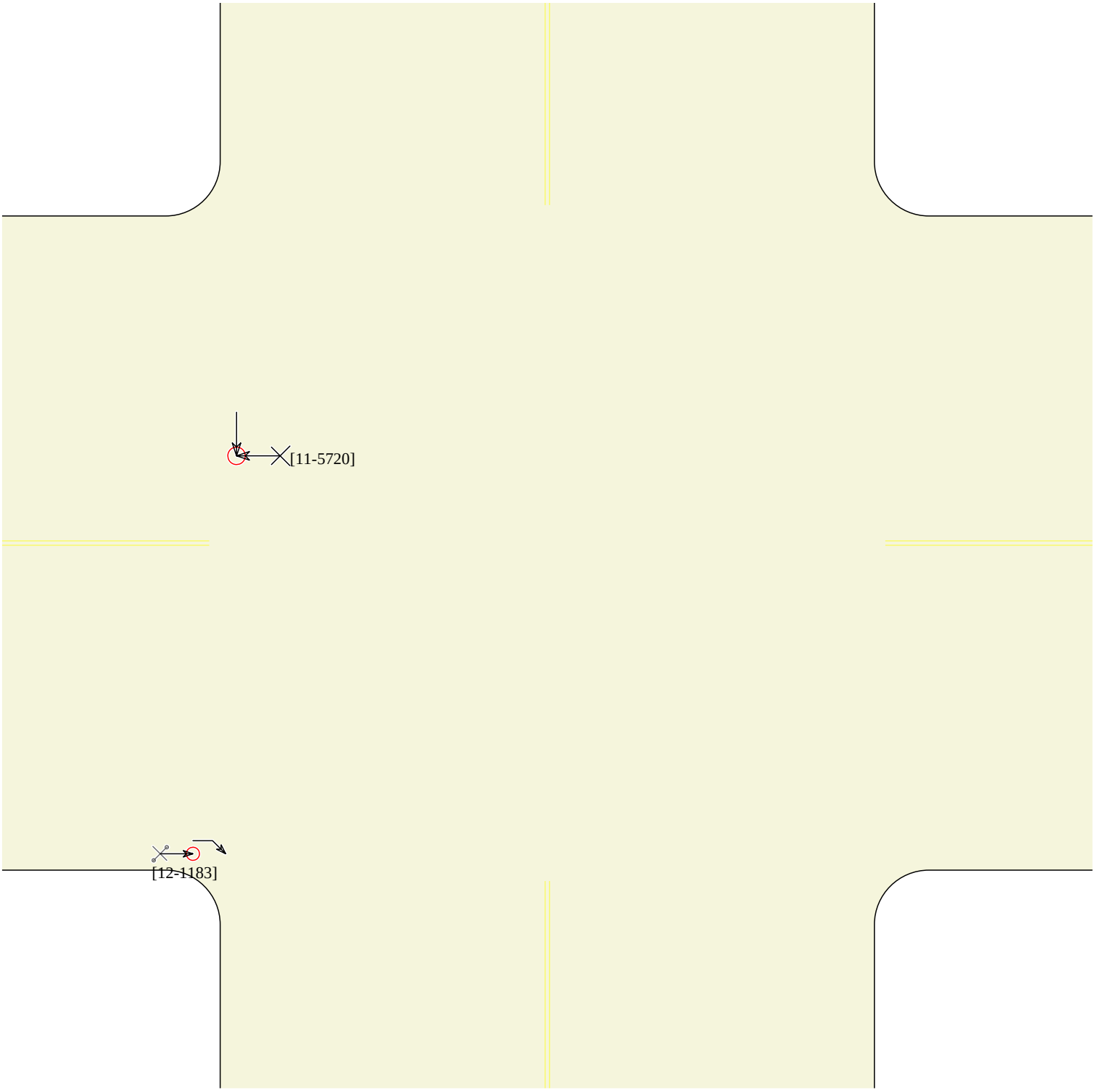
Pd' Programming, Inc. 6/7/2016

ESPLANADE □ MEMORIAL WAY

□□□□□□□□ - □□□□□□□□

2 Crashes

Ped & Bike



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- Left turn
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- Bicycle
- Injury
- Fatality
- Nighttime
- DUI

Fixed objects:

- General
- Signal
- Tree
- Pole
- Curb
- Animal

- 3rd vehicle
- Extra data

Pd' Programming, Inc. 6/6/2016

Esplanade □ E □rd Ave

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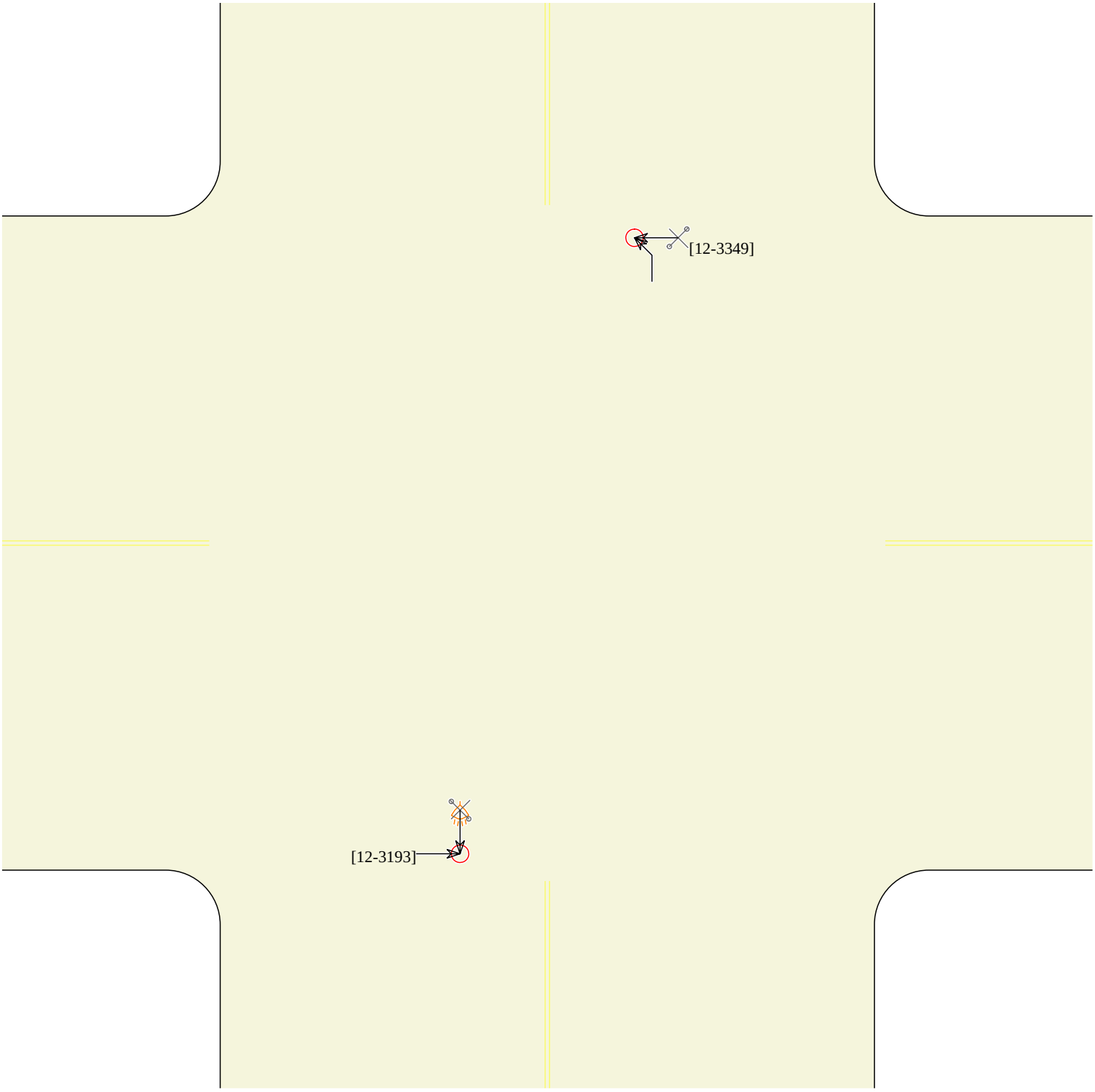
2 Crashes

Ped & Bike



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Fixed objects:

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Pd' Programming, Inc. 6/7/2016