The findings and recommendations provided in this document are provided for discussion purposes only. This document is not complete and the process of acquiring relevant data is still on-going.

ACCESS MANAGEMENT STUDY

DRAFT

State Road 867

From Cypress Lake Drive to Colby Drive (Section # 12040-000, M.P. 2.671 to M.P. 3.695)
Lee County

Prepared for:

FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 1 TRAFFIC OPERATIONS

P.O. Box 1249 801 North Broadway Avenue, MS 1-8 Bartow, Florida 33831-1249



Access Management Design Support
Financial Project Identification Number: 442582-1-32-01
Contract Number: C-AO82
TEDS Contract Number: 11145
Task Work Order: 14

Prepared by: **Traffic Engineering Data Solutions, Inc.**80 Spring Vista Drive
DeBary, Florida 32713

February 2020

Prepared by: Colleen T. Jarrell, P.E.

Professional Engineer: Colleen T. Jarrell, P.E. P.E. Number 60128

INTRODUCTION

Traffic Engineering Data Solutions, Inc. (TEDS) was retained on behalf of the Florida Department of Transportation (FDOT) to conduct an Access Management Study on State Road (S.R.) 867 from Cypress Lake Drive (M.P. 2.671) to Colby Drive (M.P. 3.695) in Fort Myers (Lee County), Florida. A location map of the study corridor is shown below in *Figure 1*.

The analysis methods used in completing this study are consistent with the <u>Manual on Uniform Traffic Control Devices</u> (MUTCD 2009), the Highway Safety Improvement Program Guidelines, the FDOT's 2019 Access Management Guidebook, FDOT Design Manual (January 2020), FDOT District 1 guidelines/procedures, Florida Administrative Code Chapter 14-97, and engineering judgment. This document includes existing conditions, crash analysis, a conceptual access management plan, and a benefit-to-cost analysis.

SE 46th Ln SE 47th St North Study Limit SE 47th Ter (Colby Drive Cape Coral Bridge Rd MCGREGOR Cape Coral Bridge Rd College Pkwy Creighton Dr South Study Limit (Cypress Lake Drive) Ruttenberg Park Cypress Lake Dr s Lake Dr Wittman Dr

Figure 1
Corridor Location Map
S.R. 867 from Cypress Lake Drive to Colby Drive

Map Source: MapQuest

EXISTING CONDITIONS

S.R. 867 is a north/south roadway extending from C.R. 865/867 to S.R. 82/U.S. 41 in Fort Myers. Within the study corridor, S.R. 867 is a four-lane undivided roadway with a two-way left-turn lane. Details of the study corridor and the surrounding area are summarized in *Table 1* and depicted in the Straight Line Diagram and Existing Conditions Diagram in *Appendix A*.

Table 1
Summary of Existing Conditions
S.R. 867 from Cypress Lake Drive to Colby Drive

Feature	Description
Main Street	S.R. 867 from Cypress Lake Drive to Colby Drive.
Area Location	Fort Myers (Lee County), Florida
Cross Section	 Four-lane undivided roadway with curb and gutter, no shoulders, and a continuous two-way left-turn lane Sidewalk along both sides of the road throughout the corridor. No overhead street lighting is provided along the road. Overhead utility poles are located along the east side of the road.
AADT (2018)	 Study Corridor – 35,500 vehicles per day (vpd)
Regulatory Speed Limit (per RCI)	Varies from 40 to 45 mph
Adjacent Land Uses	Commercial/residential
Alignment	 Relatively straight and flat with a horizontal curve just north of W College Point Drive.
Context Classification	 C3C – Suburban Commercial (M.P. 2.671 to 3.462) C3R – Suburban Residential (M.P. 3.462 to 3.603) C3R – Suburban Residential (M.P. 3.603 to 3.695)
Access Class	Access Class 6
Signalized Intersections	 Cypress Lake Drive (M.P. 2.671) Camelot Drive (M.P. 3.176) Cape Coral Bridge Drive (M.P. 3.465)

COLLISION DATA

Crash data for the 48-month period between January 1, 2014 and December 31, 2017 was obtained from the FDOT's CARS database and the University of Florida's *Signal Four Analytics*. Additionally, the crash information from both databases for 2018 was used to verify crash trends and accuracy. Over the five-year period there were a total of 275 crashes that occurred on S.R. 867, consisting of the following crash types:

Table 2
Crash Type Summary
S.R. 867 from Cypress Lake Drive to Colby Drive

CRASH TYPE	2014	2015	2016	2017	2018	TOTAL	AVERAGE PER YEAR
Angle	6	4	4	2	3	19	3.2
Backed-Into	0	0	0	2	0	2	0.3
Bicycle	1	1	0	0	0	2	0.3
Fixed-Object	3	2	0	2	2	9	1.5
Head-On	0	0	1	0	1	2	0.3
Left-Turn	9	5	10	10	7	42	7.0
Pedestrian	0	1	0	0	0	1	0.2
Rear-End	37	23	28	33	30	151	25.2
Right-Turn	0	1	0	0	5	6	1.0
Rollover	0	1	0	0	0	1	0.2
Side-Swipe	6	8	7	10	8	39	6.5
Other	1	0	0	0	0	1	0.2
Total	63	46	50	59	56	275	45.8

- The crashes resulted in three (3) fatalities, 91 injuries, and \$1,267,691 in estimated property damage.
- 214 of the crashes (78%) occurred during the day and the remaining 61 crashes (22%) occurred during the night.
- 241 of the crashes (88%) occurred on dry pavement conditions, 32 crashes (12%) occurred on wet pavement conditions and two (2) crashes (<1%) occurred on unknown pavement conditions.
- Two (2) fatal left-turn crashes occurred at the Bridge Plaza Entrance and Cypress Lake Drive.
- The two (2) bicycle and one (1) pedestrian crash occurred at various locations throughout the corridor, without any noticeable concentration in any particular location.
- Based on a review of the crash data, angle and left-turn crashes along the corridor at unsignalized locations were noted to be dispersed throughout the corridor with a higher concentration of crashes noted at the following locations:
 - Seven (7) left-turn (including one (1) fatal) and two (2) angle crashes were noted at the Bridge Plaza Entrance.

In reviewing the crash data, we identified a high number of left-turn crashes associated with the left-turn movements at the Cypress Lake Drive intersection (two (2) northbound and eight (8) southbound crashes in 5 years). It is recommended that potential conversion to protected-only left-turn phasing for the southbound left-turn movement be evaluated.

Detailed collision summaries and diagrams are provided in Appendix B.

FDOT AND COUNTY ROADWAY IMPROVEMENTS

FDOT's Five (5) Year Work Program and Lee County's Long-Range Capital Improvement Plan were reviewed for any scheduled improvements along the S.R. 867 corridor. There are no planned projects along this corridor from either FDOT or Lee County.

CONCEPTUAL ACCESS MANAGEMENT PLAN

A conceptual access management improvement plan was developed, consisting of full median openings at signalized intersections. Unsignalized full median openings and directional median openings are not provided in this plan due to the potential changes in corridor turning movements and crash trends between the time of this study effort and the design phase. The placement of additional median openings at unsignalized locations (full and directional) should be determined during the design and be based on turning movement volumes, type of land use, an operational evaluation of the corridor, field observations, collision data provided in this report, side street connectivity, public outreach, the FDOT Access Management Guidelines and engineering judgement. The intent of this plan is to provide the typical section with a raised median, along with probable costs and a benefit/cost analysis associated with the construction of a raised median. Recognizing that the location of median openings will be assessed in more detail during the design stages of the project, noted consideration should be given at such time towards re-evaluating and addressing the relatively high concentration of angle and left-turn crashes at the Bridge Plaza Entrance.

A critical component in developing an access management improvement plan is the FDOT context classification. The corridor was determined by FDOT to be C3C-Suburban Commercial from Cypress Lake Drive to just south of College Parkway and C3R-Suburban Residential from just south of College Parkway to Edinburgh Drive. Currently throughout the study corridor, S.R. 867 from Cypress Lake Drive to Edinburgh Drive has an access classification of 6, which is non-restrictive median type. Signalized full median openings are provided at Cypress Lake Drive, Camelot Drive/Landings Drive, and College Parkway. Bike lanes are not currently provided on the study segment or along the adjacent roadway segments.

The typical right-of-way width varies along the corridor from approximately 80 feet to 100 feet. The roadway width for the typical section is 67 feet (varying by one (1) to two (2) feet) and consists of four (4) 13-foot lanes, a 15-foot two-way left-turn lane and Type F curb and gutter on both sides of the road. Included in *Appendix C* is a typical section showing existing and proposed conditions. It is recommended to convert the existing continuous two-way left-turn lane to a 15-foot raised median that transitions to a 4-foot Type 1 Option 1 concrete traffic separator per FDOT index No. 520-020, with an auxiliary 11-foot left-turn lane at median openings. The proposed typical section was selected in order to avoid right-of-way acquisitions and significant construction impacts, but may require a design variation and/or exception for lane width (FDM Table 201.2.1) involving travel lanes and auxiliary lanes. For the purposes of this study, the design speed was assumed to be 5-mph above the posted speed limit.

Side street connectivity was reviewed and the surrounding street network appears to provide adequate alternate routes to access signalized intersections and to accommodate a more restrictive median along the corridor, however, there are many driveways along the corridor that will not benefit from a grid network. Thus, U-turn opportunities should be considered when recommending median openings along the corridor. The proposed typical section for S.R. 867 is a four-lane divided roadway and given the surrounding roadway grid, U-turn movements are anticipated to be low. However, given the roadway width, U-turn aprons are likely to be needed and should be evaluated during the design phase.

For the purposes of this effort, the lengths of the left-turn lanes at signalized intersections were

based on the existing turn-lane length. For locations where the existing turn-lane storage was less than the current criteria/standards contained in the FDM, the turn-lane length was increased to meet current standards for the roadway. During the design phase, the turning movement volumes, including additional volumes resulting from new U-turns, should be used to determine the required left-turn storage.

As shown in the typical section included in *Appendix C*, the recommended improvements will not add additional travel lanes or widen the existing roadway. The existing roadway is in an urban section with curb & gutter on the outside that collects runoff in a series of inlets, which is then conveyed in a series of pipe culverts. As shown in *Appendix C*, removal of existing pavement and installation of a sodded median in locations where it does not presently exist is expected to result in a net decrease of impervious area. Throughout most of the corridor, existing drainage patterns will be maintained. However, in areas of proposed left-turn lanes, overbuild is proposed to remove the existing crown of the road, such that runoff form all portions of the proposed turn-lane will be directed across the adjacent travel lanes to the outside curb line. Though no impacts to the existing outside curb & gutter are anticipated, spread calculations for existing inlets may need to be analyzed during design to ensure that additional inlets are not required as a result of these minor changes in existing drainage patterns.



COST ESTIMATE

The overall improvement costs were estimated based on FDOT historical unit prices as shown in *Table 3*. The total cost of the improvements, including engineering and CEI, are estimated at approximately \$477,188. The cost estimate includes reasonable assumptions for the length of left-turn lanes and should be updated as part of the design phase. An Improvement Diagram is provided in *Appendix C*.

Table 3
Engineer's Estimate of Probable Costs
S.R. 867 from Cypress Lake Drive to Colby Drive

	ENGINEER'S OPINION OF I	PROBABLI	E COSTS										
	S.R. 867 from Cypress La	ke to Colb	y Drive										
PAY ITEM	PAY ITEM DESCRIPTION	UNITS	QUANTITY	LINI	T PRICE	TOTAL							
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS	QUANTITY 3	\$	902.40	\$2,707.20							
0000 2100	LOOF ASSEMBLT, I &I, I I F L I	AS	•	_	JBTOTAL	\$2,707.20							
0104 18	INLET PROTECTION SYSTEM	I EA	24	\$	102.23	\$2,453.52							
	CLEARING & GRUBBING	AC	1.04	_	102.23	\$14,596.62							
	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	1,377	\$	2.19	\$3,015.63							
0327 70 1	ASPH CONC FC,TRAFFIC C,FC-9.5,PG 76-22	TN	75.735	\$	142.35	\$10,780.88							
	, , , ,	I F		\$		' '							
0520 2 2	CONCRETE CURB, TYPE B	I LF	6,617	\$	25.56	\$169,130.52							
0520 5 11	TRAF SEP CONC-TYPE I, 4' WIDE	SY	870	_	42.11	\$36,635.70							
0520 70	CONCRETE TRAFFIC SEPARATOR, SP- VAR WIDT	39 4.650	\$	73.86	\$2,880.54								
0570 1 2	PERFORMANCE TURF, SOD	\$	2.57	\$11,950.50									
			JBTOTAL	\$251,443.91									
	THERMOPLASTIC, PREFORM, WHITE, SOLID,24"	LF	45	\$	16.63	\$748.35							
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	15	\$	154.52	\$2,317.80							
0711 15101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	GM	0.161	\$	4,326.95	\$696.64							
	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	GM	0.095	-	1,515.57	\$143.98							
0711 15201	THERMOPLASTIC, STD-OP, YELLOW, SOLID, 6"	GM	1.645		4,283.65	\$7,046.60							
		P	AVEMENT MARKII	NG SI	JBTOTAL	\$10,953.37							
				SI	JBTOTAL	\$265,104.48							
0101 1			BILIZATION (10%)			\$26,510.45							
0102 1	MAINT	ENANCE (OF TRAFFIC (20%)			\$53,020.90							
0999 25			NTINGENCY (20%)			\$53,020.90							
		TRUCTION TOTAL			\$397,656.72								
		EN	GINEERING (20%)			\$53,020.90							
		CEI (10%)			\$26,510.45								
	PROJECT TOTAL S												

*Note: Milling and resurfacing restricted to left-turn lanes

BENEFIT/COST ANALYSIS

A benefit cost analysis was conducted for the construction of a raised median to determine if the project is justified based on criteria outlined in the Highway Safety Improvement Program Manual. The benefit of the improvement is determined as the cost associated with any crash susceptible to correction by the improvement.

The Federal Highway Administration's (FHWA) CMF Clearinghouse identifies a Crash Modification Factor (CMF) of 0.61 for the installation of a raised median for a prior road condition with no raised median. This CMF was applied to all long form crashes within the study corridor minus crashes that occurred within the signalized intersections and rear-end crashes on approach to the signalized intersections. Crash modification factor information sheets are provided in *Appendix D*.

Based on the Benefit Cost Analysis spreadsheet shown as **Table 4**, upon applying the CMF factors to 74 long form crashes along the corridor, the improvements are projected to result in a reduction of 5.77 crashes per year. The cost per crash is \$207,971 as obtained from FDOT's CAR Segment Based Crash Rate Statistics (statewide suburban 4-5 lane 2-way undivided roadway). Therefore, the Benefit/Cost ratio of the proposed improvements is 31.73. The proposed improvements are justified as a candidate project for federal safety funding.

The Net Present Value (NPV) for the improvements is estimated at \$15,836,757. The NPV calculations are provided in *Appendix E*.

Table 4 Benefit/Cost Analysis S.R. 867 from Cypress Lake Drive to Colby Drive

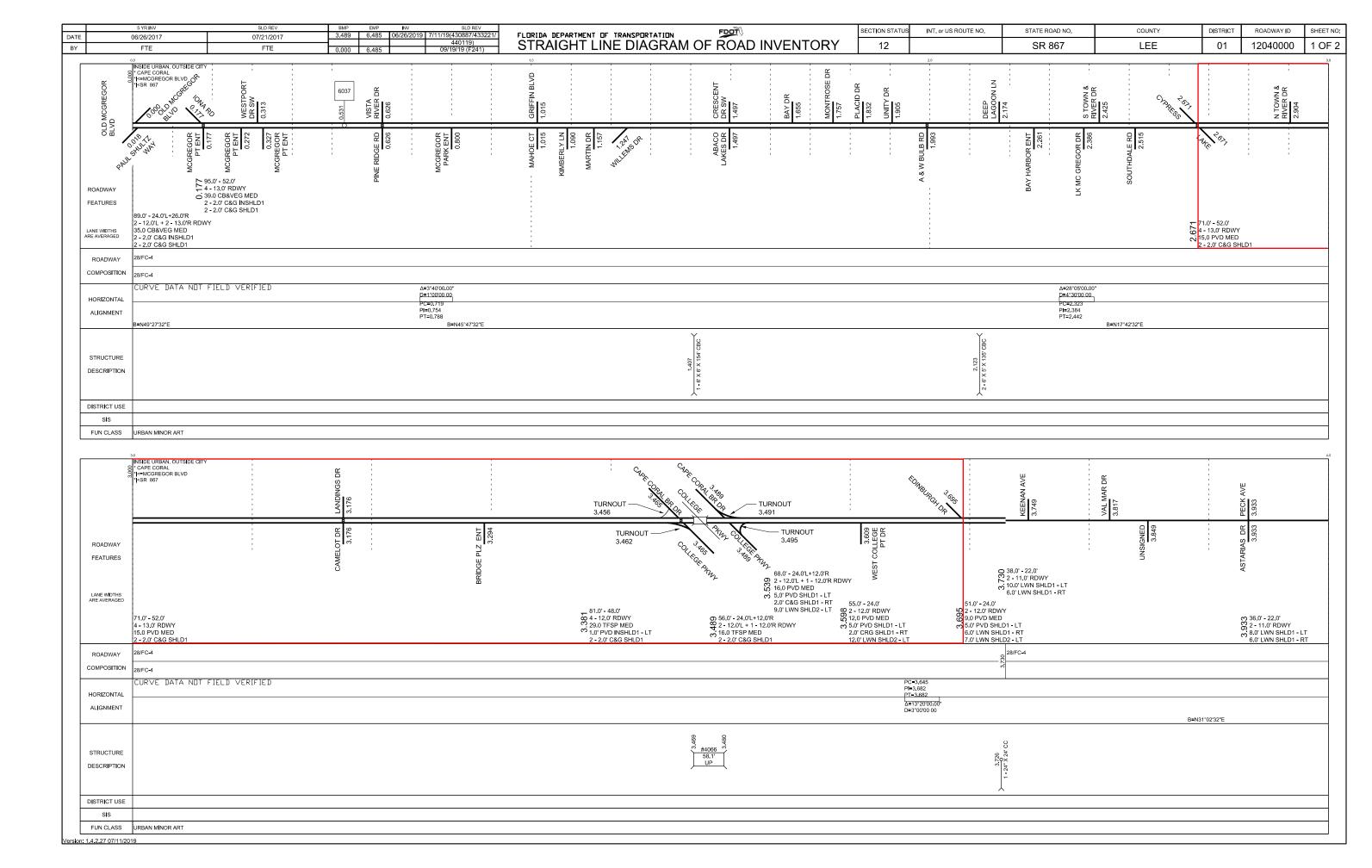
2. 3.	SUBMITTED BY DATE SUBMITTED PROJECT NO. ALTERNATIVE NO.		TEDS 1/30/202	20						- - -	FM #		5. SN	12040	SAFETY PRICE ENV. STUDY SKID (ID) SPEED	ORITY 40 to 45
6.	DISTRICT	1	COUNT	Y <u>Lee</u>			_		SECT	ION	12040		SR	867	U.S. ROAD	N/A
7.	BEGIN MILE POST	2.671					EN	D MILE	POST	3.695	_		LENGTH	1.024	NODE	N/A
10.	PROPOSED IMPRO	OVEMENT	S (LIST ANI	DISCUSS):	:											
	Install a raised medi	an														
11.	YEAR				2014	2015	2016	2017	2018	AVG			14.	CRASH IN	IFORMATION I	FOR FACILITY
12.	Benefit: Install a Raised	NO. OF C	RASHES		47	4.4		04	40	440				COST/CRAS	SH	\$207,971.00
	Median [CMF= 0.610]	NO. CRA	SHES POTE D BY PROJ		6.63	<u>14</u> 5.46	9 3.51	8.19	5.07	5.77	-			CRASH CL		-\$100.00 4%
	9.00 8.00 7.00 6.00 5.00	ashes Rec	luced						15.	I.	TYPE R-O-W PECEI STRUCTURAL SIGNAL STRIPING ROADWAY SUBTOTAL LIGHTING CRASH CLEAN	\$ \$ \$ \$	79,531.34 - 4,060.80 16,430.06 377,165.86 477,188.06		0.0466 0.0736 0.0466 0.0736 0.1485 0.0736	AN'L COST \$0 \$5,854 \$0 \$299 \$2,440 \$27,759 \$36,352 \$1,480 \$37,832
	3.00 2.00								16.	BENE	FIT					\$1,200,409
	0.00 201	4 2015	2016	2017 201	8				17.	BENE	FIT / COST				-	31.73
	PREPARED BY:									APPR	OVED BY:				DATE:	
	ost per crash based on C									_					that occurred in	the signalized

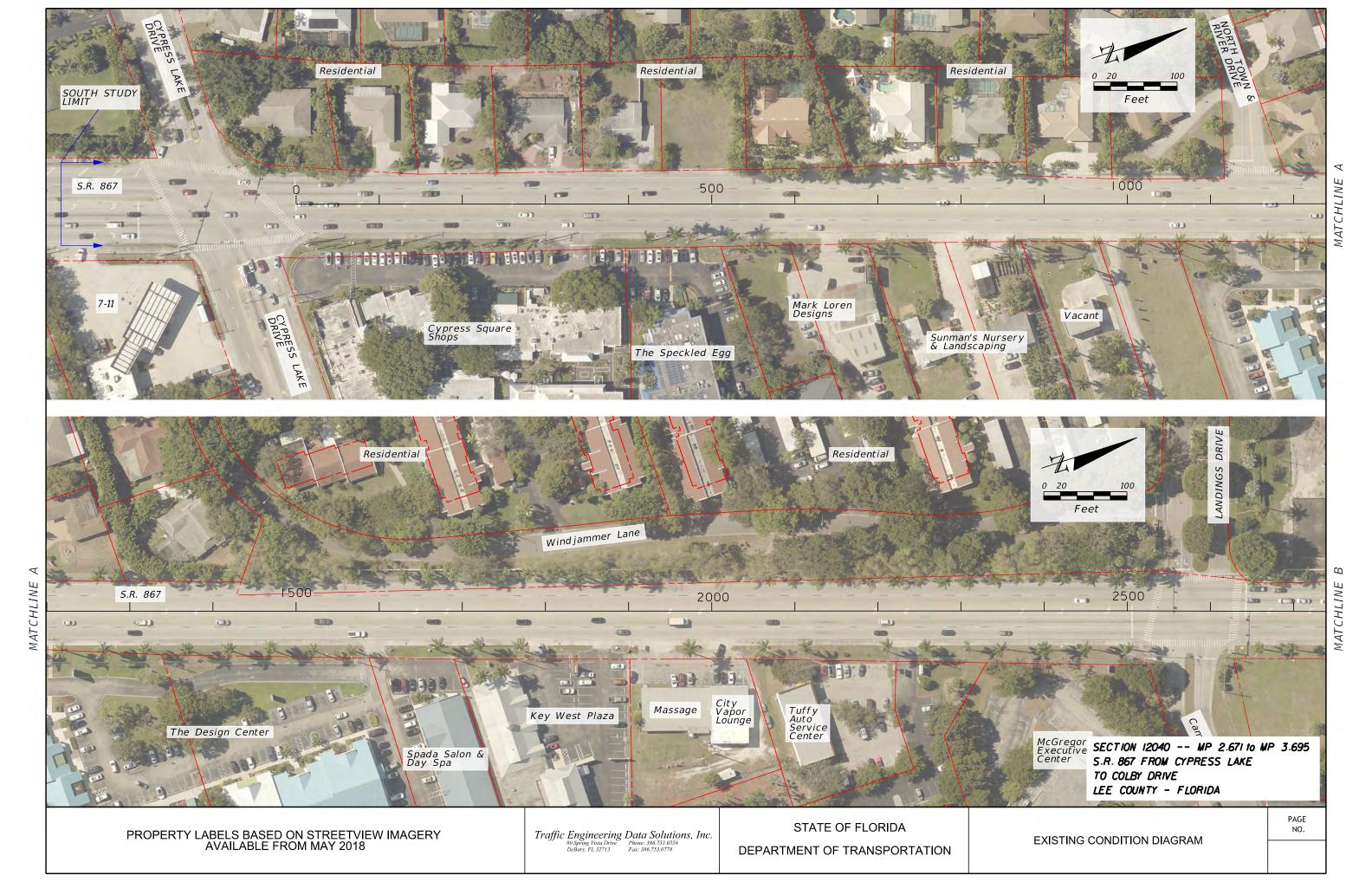
[•] Installation of a raised median has a CMF of 0.61 pertaining to all crash types; this CMF was applied to all the long-form crashes throughout the corridor minus crashes that occurred in the signalized intersections and rear-end crashes on approach to the signalized intersections.

APPENDIX

APPENDIX A

STRAIGHT LINE DIAGRAM AND EXISTING CONDITION DIAGRAM







APPENDIX B

COLLISION SUMMARIES & DIAGRAMS

	COLLISION SUMMARY													
						COLLI	SION	SUMMAI	RY					
Section:	12040					State Road:	867			County:	Lee			
Intersecting	g route:	Cypress I	Lake / C	Colby D	rive	Milepost:	2.671 - 3.69	5		Data by:	SEN			
Study perio	od:	1/1/2014	to	12/31/2	2014					Date:	1/16/2020)		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	01/07/14	Tuesday	0:47	0	1	3-Non-Incapacitating	\$7,000	Left-Turn	Long	No	Night	Dry	Ran Red Light	
2	01/08/14	Wednesday	12:56	0	0	1-None	\$10,000	Angle	Long	No	Day	Dry	Ran Red Light	
3	01/11/14	Saturday	18:24	0	0	1-None	\$10,000	Rear-End	Short	No	Night	Dry	Careless Driving	
4	01/15/14	Wednesday	23:47	0	0	1-None	\$0	Rear-End	Short	No	Night	?	Careless Driving	
5	01/19/14	Sunday	2:02	0	0	1-None	\$5,000	Fixed-Object	Long	No	Night	Dry	DUI	
6	01/25/14	Saturday	2:19	0	0	1-None	\$2,000	Fixed-Object	Long	Yes	Night	Dry	Careless Driving	
7	01/30/14	Thursday	17:14	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Careless Driving	
8	02/07/14	Friday	10:19	0	0	1-None	\$4,000	Rear-End	Short	No	Day	?	Careless Driving	
9	02/08/14	Saturday	20:22	0	1	4-Incapacitating	\$7,000	Left-Turn	Long	No	Night	Dry	FTYROW	
10	02/13/14	Thursday	20:19	0	0	1-None	\$1,000	Rear-End	Short	No	Night	Dry	Careless Driving	
11	02/18/14	Tuesday	18:58	0	0	1-None	\$14,000	Rear-End	Long	No	Night	Dry	Careless Driving	
12	02/27/14	Thursday	7:24	0	0	1-None	\$0	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
13	02/27/14	Thursday	20:36	0	0	1-None	\$0	Rear-End	Short	No	Night	Wet	Careless Driving	
14	02/28/14	Friday	23:05	0	1	2-Possible	\$17,000	Angle	Long	Yes	Night	Dry	DUI	
15	03/24/14	Monday	21:58	0	0	1-None	\$5,000	Rear-End	Long	No	Night	Wet	Careless Driving	
16	04/01/14	Tuesday	18:37	0	0	1-None	\$250	Side-Swipe	Long	No	Day	Dry	Improper Lane Change	
17	04/08/14	Tuesday	15:31	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Careless Driving	
18	04/10/14	Thursday	16:05	0	0	1-None	\$11,500	Rear-End	Long	No	Day	Dry	Careless Driving	
19	04/11/14	Friday	12:30	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
20	04/27/14	Sunday	10:30	0	0	1-None	\$2,000	Fixed-Object	Long	No	Day	Dry	Lost Control	
21	05/02/14	Friday	16:22	0	0	1-None	\$10,000	Angle	Long	No	Day	Dry	FTYROW	
22	05/05/14	Monday	17:50	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
23	05/07/14	Wednesday	20:48	0	0	1-None	\$1,750	Rear-End	Long	Yes	Night	Dry	Careless Driving	
24	06/02/14	Monday	0:30	0	0	1-None	\$0	Side-Swipe	Short	No	Night	Dry	Improper Lane Change	
25	06/09/14	Monday	14:59	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
26	06/10/14	Tuesday	21:07	0	0	1-None	\$2,000	Rear-End	Long	Yes	Night	Dry	DUI	
27	06/17/14	Tuesday	17:40	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
28	06/19/14	Thursday	17:17	0	0	1-None	\$0	Rear-End	Long	No	Day	Dry	Careless Driving	
29	06/22/14	Sunday	11:18	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
30	06/22/14	Sunday	18:13	0	1	2-Possible	\$10,000	Left-Turn	Long	Yes	Day	Dry	FTYROW	
31	06/25/14	Wednesday	14:36	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
32	07/02/14	Wednesday	12:59	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
33	07/03/14	Thursday	15:38	0	0	1-None	\$13,000	Rear-End	Long	No	Day	Dry	Careless Driving	
34	07/11/14	Friday	15:24	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Lost Control	
35	07/16/14	Wednesday	13:55	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
36	07/24/14	Thursday	8:29	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
37	07/25/14	Friday	16:38	0	0	1-None	\$15,000	Left-Turn	Short	No	Day	Dry	FTYROW	
38	07/26/14	Saturday	14:05	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Following Too Closely	
39	08/06/14	Wednesday	17:30	0	1	2-Possible	\$16,100	Rear-End	Long	No	Day	Dry	Careless Driving	
40	08/14/14	Thursday	14:52	0	0	1-None	\$0	Side-Swipe	Short	No	Day	Dry	Reckless Driving	
41	08/21/14	Thursday	14:12	0	0	1-None	\$0	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
42	08/21/14	Thursday	17:50	0	0	1-None	\$0	Angle	Short	No	Day	Dry	FTYROW	
43	09/02/14	Tuesday	16:09	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Careless Driving	
44	09/10/14	Wednesday	8:35	0	0	1-None	\$12,000	Rear-End	Short	No	Day	Dry	Careless Driving	
45	09/13/14	Saturday	16:47	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
46	10/04/14	Saturday	0:14	0	0	1-None	\$3,000	Left-Turn	Long	No	Night	Wet	Ran Red Light	
47	10/07/14	Tuesday	20:55	0	0	1-None	\$4,000	Left-Turn	Long	Yes	Night	Dry	FTYROW	
48	10/13/14	Monday	14:54	0	1	3-Non-Incapacitating	\$500	Bicycle	Long	No	Day	Dry	FTYROW	
40	40/00/44	1 3 6 1	10 13			1 1 1 1	0000		C1 .					

Dry

Careless Driving

49

10/20/14 Monday 18:13

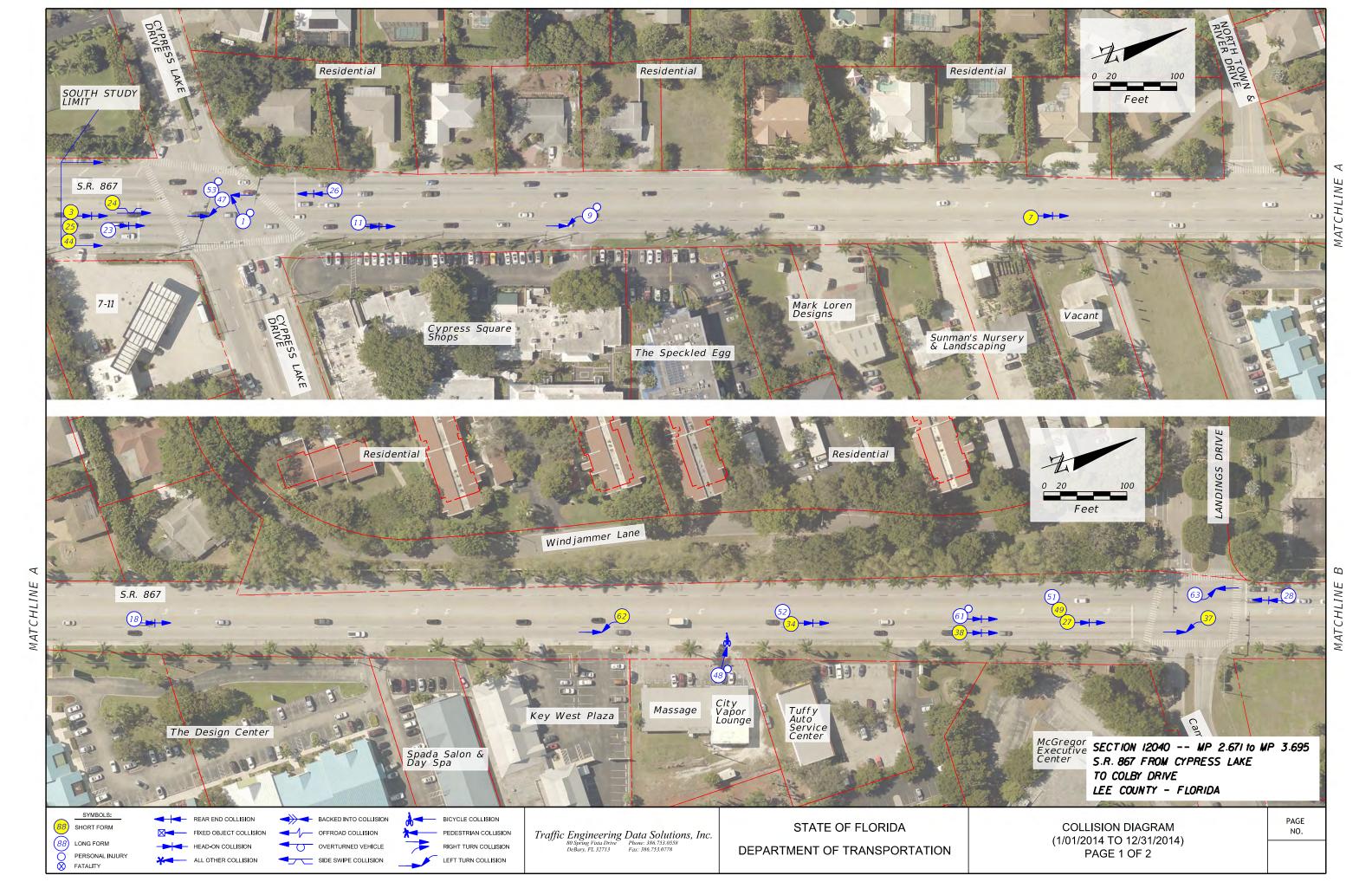
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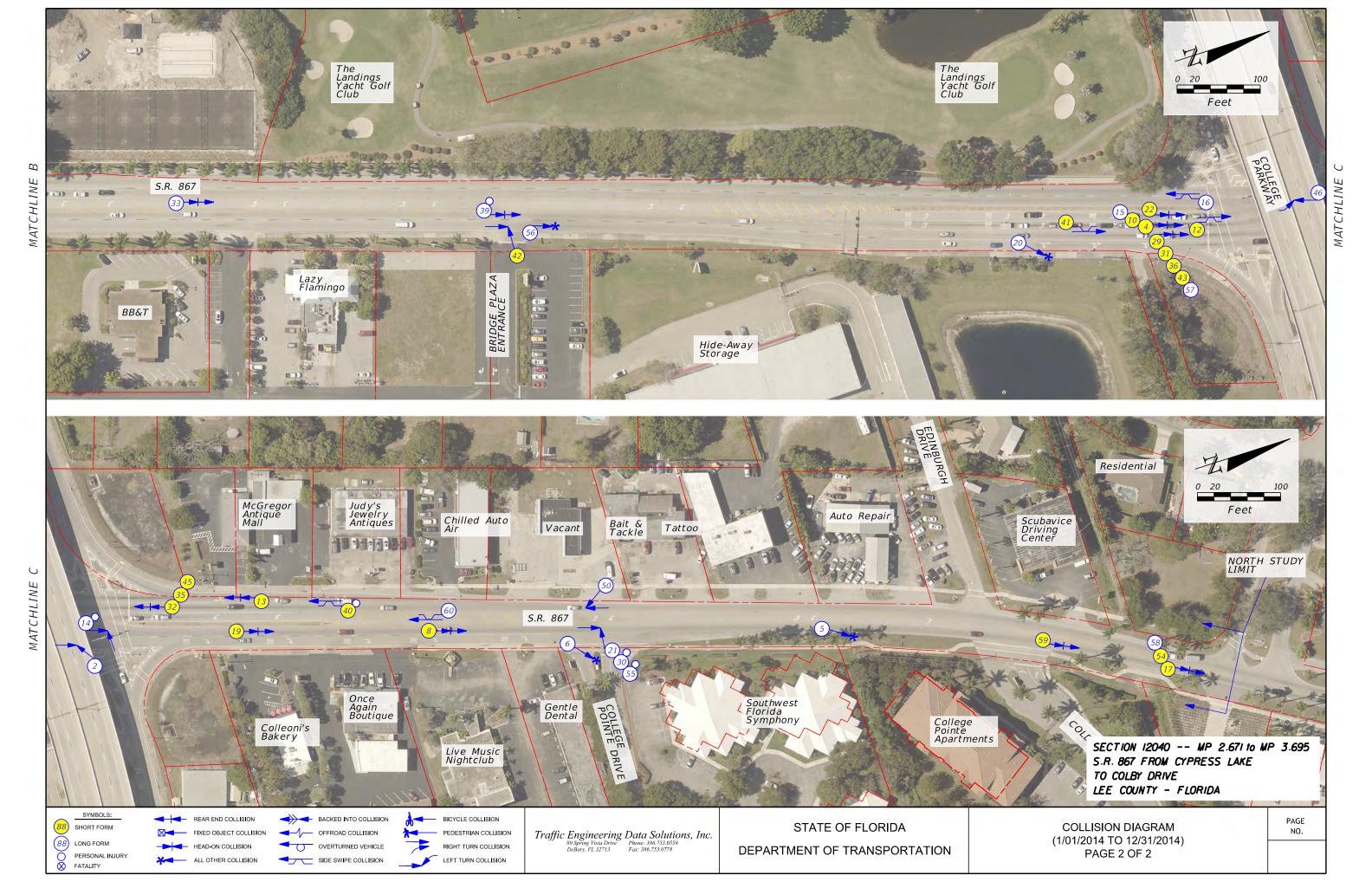
1-None

Rear-End

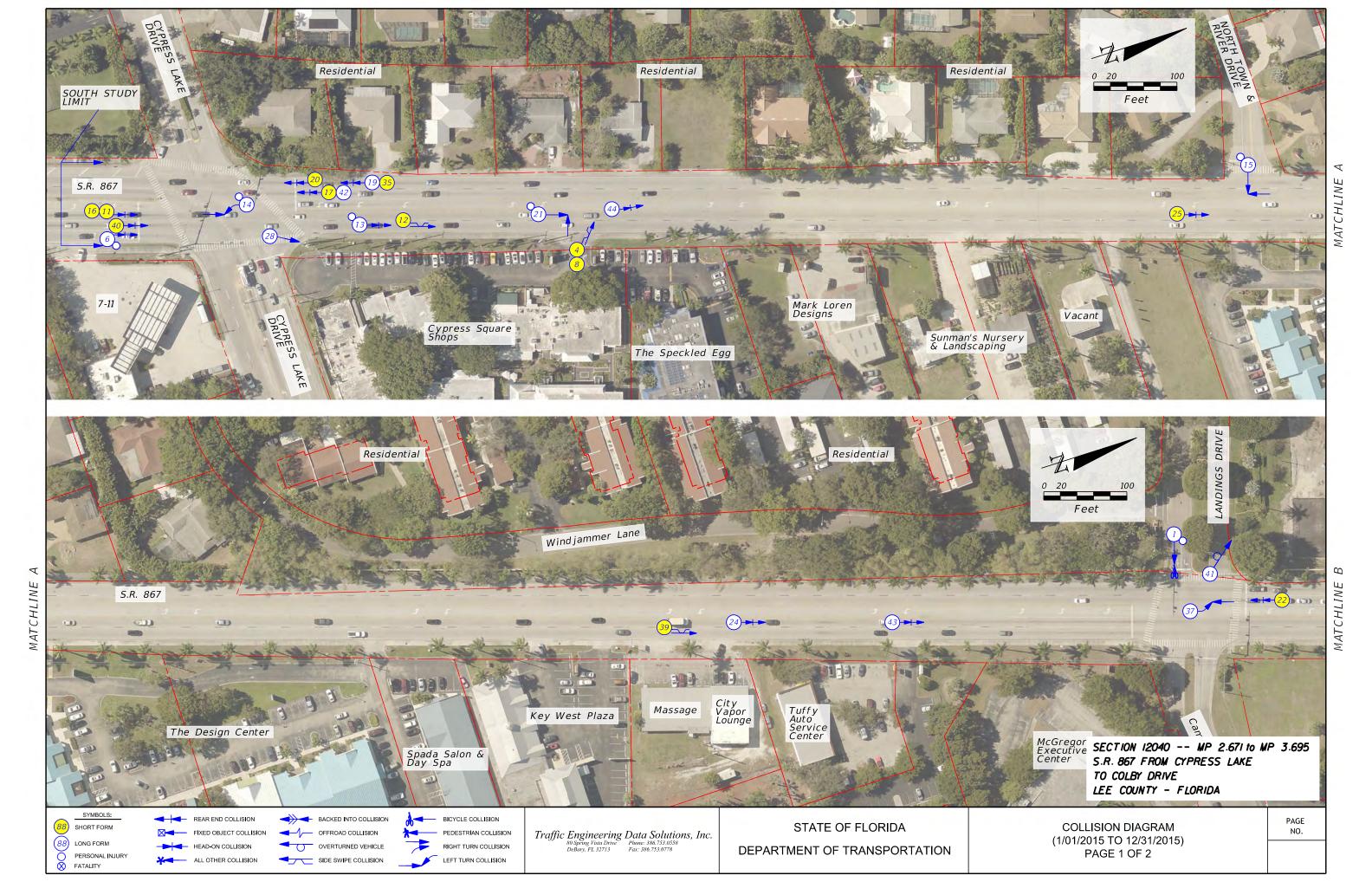
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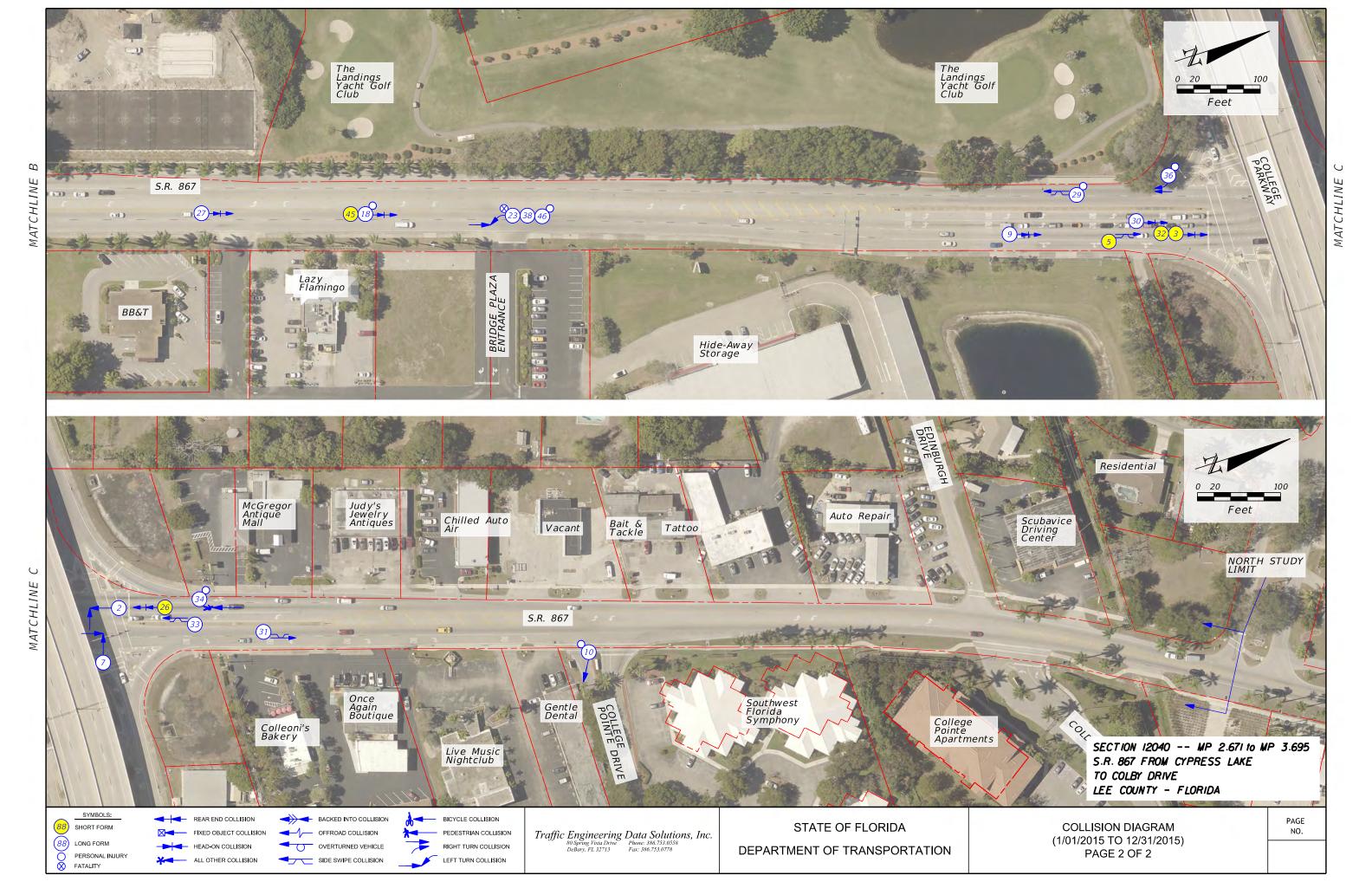
	COLLISION SUMMARY													
Section:	12040					State Road:	867			County:	Lee			
Intersecting	g route:	Cypress I	Lake / C	Colby D	rive	Milepost:	2.671 - 3.695	5		Data by:	SEN			
Study perio	od:	1/1/2014	to	12/31/2						Date:	1/16/2020)		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUT	TING CAUSE
50	10/21/14	Tuesday	11:34	0	0	1-None	\$4,000	Angle	Long	No	Day	Dry	FTYI	ROW
51	10/27/14	Monday	18:16	0	0	1-None	\$10,000	Rear-End	Long	No	Day	Dry	Careless	Driving
52	11/01/14	Saturday	11:53	0	0	1-None	\$1,600	Rear-End	Long	No	Day	Dry	Careless	Driving
53	11/04/14	Tuesday	14:10	0	2	2-Possible	\$4,000	Left-Turn	Long	No	Day	Dry	FTYI	ROW
54	11/09/14	Sunday	11:45	0	0	1-None	\$0	Rear-End	Short	No	Day	Wet	Careless	Driving
55	11/09/14	Sunday	18:23	0	1	2-Possible	\$5,000	Angle	Long	No	Night	Wet	FTYI	ROW
56	11/11/14	Tuesday	15:36	0	0	1-None	\$10,000	Other	Long	No	Day	Dry	Careless	Driving
57	11/14/14	Friday	18:00	0	0	1-None	\$3,500	Rear-End	Long	No	Day	Dry	Careless	Driving
58	11/19/14	Wednesday	19:04	0	0	1-None	\$6,000	Rear-End	Long	No	Day	Dry	Careless	Driving
59	12/03/14	Wednesday	16:00	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Distracte	d Driving
60	12/10/14	Wednesday	8:41	0	0	1-None	\$3,000	Side-Swipe	Long	No	Day	Dry	Careless	Driving
61	12/16/14	Tuesday	16:53	0	1	3-Non-Incapacitating	\$22,500	Rear-End	Long	No	Day	Dry	Careless	Driving
62	12/19/14	Friday	14:34	0	0	1-None	\$0	Left-Turn	Short	No	Day	Dry	FTYI	ROW
63	12/31/14	Wednesday	11:14	0	0	1-None	\$6,000	Left-Turn	Long	No	Day	Wet	FTYI	ROW
TOTAL				0	10		\$259,600							
TOTAL		Injury Sev	erity		Rear-	Side-Swipe	Fixed-Object	Left-Turn	Bicycle	Angle	Other			
NO.	Property D	amage Only	Injury	Fatality	End	Bide-Bwipe	Tixed-Object	LCIt-1 uili	Bicycic	7 Higic	Other			
63	5	4	9	0	37	6	3	9	1	6	1	0	0	0
Percent	80	5%	14%	0%	59%	10%	5%	14%	2%	10%	2%	0%	0%	0%
CONTRIB- CAUSE	Time Day	of Day Night	Par Dry	wement C Wet	ond.	Improper Lane Change	Careless Driving	Following Too Closely	Distracted Driving	DUI	FTYROW	Lost Control	Reckless Driving	Ran Red Light
Total	46	17	50	11	0	4	36	1	1	3	12	2	1	3
Percent	73%	27%	79%	17%	0%	6%	57%	2%	2%	5%	19%	3%	2%	5%





FLORIDA DEPARTMENT OF TRANSPORTATION COLLISION SUMMARY 12040 State Road: 867 County: Lee Cypress Lake / Colby Drive Milepost: 2.671 - 3.695 TSH Data by: 1/16/2019 12/31/2015 Study period 1/1/2015 Date INJURY PROPERTY DAY NO. DATE DAY TIME FATAL INJURY HARMFUL EVENT FORM DUI CONTRIBUTING CAUSE SEVERITY DAMAGE NIGHT DRY 01/09/15 Friday 16:34 0 \$1,150 No Bike-FTYROW 3-Non-Incapacitatir Long Dry Bicycle 01/11/15 Sunday 19:45 \$30,000 Long Wet Ran Red Light 1-None Angle No Night Short 3 01/14/15 Wednesday 13:18 0 0 1-None \$0 Rear-End No Day Dry Careless Driving 4 01/16/15 Friday 20:50 0 0 1-None \$0 Side-Swipe Short No Dry FTYROW Night \$0 01/19/15 Monday 10:20 0 0 1-None Side-Swipe Short No Day Dry Improper Lane Change 01/20/15 23:15 0 2 \$11,000 6 Tuesday 2-Possible Rear-End Long No Night Dry Careless Driving 02/06/15 20:04 \$15,000 Friday 0 0 1-None Angle Long No Night Drv Ran Red Light 02/13/15 Friday 10:50 0 0 1-None \$0 Side-Swipe Short No Day Dry FTYROW Long 02/23/15 Monday Rear-End Night Dry Careless Driving 02/27/15 Day Careless Driving 10 Friday 14:16 0 3-Non-Incapacitatin \$2,000 Fixed-Object Long No Dry 02/27/15 15:00 0 0 \$0 Following Too Closely 11 Friday 1-None Rear-End Short Nο Day Dry 12 03/09/15 16:00 0 0 \$0 Short No Drv Improper Lane Change Monday 1-None Side-Swipe Day 13 03/12/15 8:48 0 \$8,000 Long Thursday 2-Possible Rear-End No Day Dry Careless Driving 14 03/13/15 0 1 \$2,000 Long No FTYROW Friday 2:16 2-Possible Left-Turn Night Dry 15 03/13/15 0 \$6,500 No Friday 11:10 2 3-Non-Incapacitatin Angle Long Day Dry Disregarded Traffic Control 16 03/18/15 Wednesda 14:17 0 0 1-None \$0 Rear-End Short No Day Dry Careless Driving 17 03/20/15 0 Friday 8:00 0 1-None \$0 Rear-End Short No Day Dry Careless Driving 03/23/15 \$7,000 18 16:00 2-Possible Day Drv Careless Driving Monday 0 Rear-End Long No 19 03/27/15 Friday 15:10 0 0 1-None \$3,500 Rear-End Long No Day Wet Careless Driving 03/30/15 8:41 Following Too Closely 21 2 04/05/15 Sunday 21:03 0 2-Possible \$30,000 Long Yes Night Dry FTYROW 04/28/15 Tuesday 11:20 0 0 Rear-End Short Dry 23 05/13/15 17:35 \$20,800 Wednesday 5-Fatal Left-Turn Long No Day Wet FTYROW 24 05/13/15 Wednesday 18:03 0 0 Long 1-None \$6,500 Rear-End No Dry Day Careless Driving 25 05/15/15 Friday 17:02 0 0 1-None \$1,700 Rear-End Short No Day Dry Careless Driving 26 05/31/15 Sunday 13:40 0 0 1-None \$0 Rear-End Short No Day Dry Careless Driving 27 06/01/15 Monday 17:17 0 0 1-None \$11,500 Rear-End Long No Day Dry Following Too Closely 22:29 28 06/10/15 \$2,500 Wet Wednesday 0 0 1-None Fixed-Object Long No Night Mechanical 29 06/12/15 Friday 22:07 0 2-Possible \$7,000 Side-Swipe Night Dry DUI Long Yes 1-None 30 06/13/15 Saturday 17:06 0 0 \$1,000 Rear-End Long Yes Dry DUI Day Side-Swipe 06/24/15 Wednesday 1-None \$1,000 Long No Day Dry Improper Passing 32 07/11/15 Saturday 21:09 0 Rear-End Short No Night Dry Following Too Closely Side-Swipe Careless Driving 33 07/21/15 Tuesday 15:48 0 0 \$2,500 Dry 21:09 34 08/04/15 3-Non-Incapacitatir \$100 Yes Drv Ped-FTYROW Tuesday 0 Pedestrian Long Night 35 08/05/15 Wednesday 12:24 0 0 1-None \$0 Rear-End Short No Day Dry Following Too Closely 08/17/15 \$3,500 36 Monday 9:55 0 2 2-Possible Right-Turn Long No Day Dry FTYROW Long 37 10/06/15 Tuesday 17:09 0 0 1-None \$6,000 Left-Turn No Day Dry FTYROW 38 10/21/15 Wednesday 16:14 0 0 1-None \$7,000 Left-Turn Long Yes Day Dry DUI 39 12/01/15 Tuesday 6:43 0 0 1-None \$2,190 Side-Swipe Short No Day Dry Improper Lane Change 40 12/12/15 16:20 0 0 Saturday 1-None \$0 Rear-End Short No Day Dry Careless Driving 41 12/22/15 12:21 0 0 \$5,000 Dry Tuesday 1-None Rollover Long No Day Careless Driving 12/23/15 0 Long 42 14:05 0 \$2,500 Rear-End Day Dry Following Too Closely 43 12/29/15 16:50 0 0 1-None \$10,000 Long Dry Tuesday Rear-End No Following Too Closely 44 12/30/15 Wednesday 15:26 0 0 1-None \$14,000 Rear-End Long No Day Drv Following Too Closely 45 12/30/15 Wednesday 17:15 0 0 1-None \$1,000 Rear-End Short No Dry Careless Driving 46 12/30/15 Wednesday 18:29 0 3 2-Possible \$6,000 Left-Turn Long Dry FTYROW No Day TOTAL \$233,690 2 21 TOTAL Injury Severity Angle Fixed-Object Left-Turn Right-Tur Pedestrian Rollover Rear-End Side-Swipe Bicycle NO. Property Damage Only Injury 46 4 23 26% 9% 11% 2% 50% 0% Time of Day Pavement Cond. CONTRIB Following Too Improper Ran Red Imprope DUI FTYROW Mechanical Traffic TYROW FTYROW CAUSE Wet Closely Light Driving Dry Contro Total 35 11 42 4 17 Percent 76% 24% 91% 9% 7% 17% 7% 2% 2% 17% 2% 4% 37%





						COLI	LISION	SUMMA	RY				
Section:	12040					State Road:		5 6 111 111 11		County:	Lee		
Intersecting		Cypress L	ake / C	Colby D	rive		2.671 - 3.695	5		Data by:	TSH		
Study perio		1/1/2016	to	12/31/2		P	21071 01071			Date:	1/16/2020)	
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE
1	01/08/16	Friday	6:45	0	0	1-None	\$0	Rear-End	Short	No	Night	Wet	Too Fast for Conditions
2	01/09/16	Saturday	18:21	0	0	1-None	\$0	Rear-End	Short	No	Night	Wet	Following Too Closely
3	01/18/16	Monday	16:14	0	2	2-Possible	\$10,000	Angle	Long	No	Day	Dry	Improper Turn
4	01/21/16	Thursday	19:00	0	0	1-None	\$2,600	Rear-End	Long	No	Night	Dry	Careless Driving
5	01/30/16	Saturday	14:50	0	2	3-Non-Incapacitating	\$6,000	Left-Turn	Long	No	Day	Dry	Ran Red Light
6	02/02/16	Tuesday	10:05	0	0	1-None	\$0	Left-Turn	Short	No	Day	Dry	Ran Red Light
7	02/12/16	Friday	16:39	0	0	1-None	\$10,000	Rear-End	Long	No	Day	Dry	Careless Driving
8	02/16/16	Tuesday	5:45	0	3	2-Possible	\$22,500	Left-Turn	Long	No	Night	Wet	Ran Red Light
9	02/20/16	Saturday	12:55	0	0	1-None	\$2,000	Side-Swipe	Short	No	Day	Dry	Improper Lane Change
10	02/23/16	Tuesday	17:26	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving
11	03/08/16	Tuesday	11:00	0	0	1-None	\$4,000	Side-Swipe	Long	No	Day	Dry	Careless Driving
12	03/08/16	Tuesday	14:30	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving
13	03/11/16	Friday	15:19	0	0	1-None	\$11,000	Rear-End	Long	No	Day	Dry	Following Too Closely
14	03/14/16	Monday	19:10	0	1	2-Possible	\$1,000	Angle	Long	No	Day	Dry	FTYROW
15	03/18/16	Friday	21:55	0	0	1-None	\$2,000	Rear-End	Short	No	Night	Dry	Careless Driving
16	04/02/16	Saturday	23:00	0	0	1-None	\$7,000	Rear-End	Long	No	Night	Wet	Careless Driving
17	04/22/16	Friday	22:15	0	1	2-Possible	\$1,700	Rear-End	Long	No	Night	Dry	Following Too Closely
18	05/01/16	Sunday	12:36	0	2	3-Non-Incapacitating		Head-On	Long	No	Day	Dry	Careless Driving
19	05/02/16	Monday	6:55	0	0	1-None	\$4,800	Rear-End	Short	No	Day	Dry	Careless Driving
20	05/09/16	Monday	8:34	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Following Too Closely
21	06/12/16	Sunday	15:38	0	0	1-None	\$10,000	Left-Turn	Long	No	Day	Dry	Ran Red Light
22	06/15/16	Wednesday	16:21	0	0	1-None	\$1,000	Rear-End	Short	No	Day	Dry	Careless Driving
23	06/17/16	Friday	14:17	0	0	1-None	\$2,000	Rear-End	Long	No	Day	Wet	Following Too Closely
24	06/17/16	Friday	14:17	0	0	1-None	\$4,000	Rear-End	Long	No	Day	Wet	Following Too Closely
25	06/28/16	Tuesday	17:40	0	0	1-None	\$2,000	Rear-End	Long	No	Day	Dry	Following Too Closely
26	06/28/16	Tuesday	19:00	0	0	1-None	\$0	Rear-End	Short	No	Night	Dry	Careless Driving
27	07/11/16	Monday	16:18	0	1	2-Possible	\$10,000	Side-Swipe	Long	No	Day	Dry	Improper Turn
28	07/14/16	Thursday	15:00	0	2	3-Non-Incapacitating	\$9,000	Left-Turn	Long	No	Day	Dry	Ran Red Light
29	07/16/16	Saturday	21:03	0	0	1-None	\$0	Left-Turn	Short	No	Night	Wet	Ran Red Light
30	08/03/16	Wednesday	10:11	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Failed to Maintain Single Lane
31	08/04/16	Thursday	8:43	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Following Too Closely
32	08/04/16	Thursday	16:36	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Following Too Closely
33	08/06/16	Saturday	13:56	0	0	1-None	\$0	Side-Swipe	Short	No	Day	Dry	Careless Driving
34	08/18/16	Thursday	12:10	0	2	2-Possible	\$11,000	Left-Turn	Long	No	Day	Dry	FTYROW
35	08/30/16	Tuesday	5:17	0	1	2-Possible	\$6,000	Angle	Long	No	Night	Dry	Ran Red Light
36	09/12/16	Monday	15:24	0	0	1-None	\$2,000	Rear-End	Long	No	Day	Dry	Careless Driving
37	09/28/16	Wednesday	9:00	0	0	1-None	\$2,000	Side-Swipe Rear-End	Short	No	Day	Dry	Improper Lane Change
38	10/03/16	Monday		0	0	1-None	\$0		Short	No	Day	Dry	Careless Driving Careless Driving
39 40	10/07/16	Friday	14:17 16:20	0	0	1-None 1-None	\$0 \$0	Rear-End	Short	No No	Day	Dry	Improper Lane Change
41	10/11/16	Tuesday Wednesday	19:50	0	1	2-Possible	\$19,000	Side-Swipe Side-Swipe	Short Long	Yes	Day Night	Dry Wet	DUI
42	10/12/16	Sunday	9:27	0	0	2-Possible 1-None	\$19,000	Rear-End	Long	No	Day	Dry	Careless Driving
43	10/18/16	Tuesday	15:15	0	0	1-None	\$2,700	Rear-End	Long	No	Day	Dry	Following Too Closely
43	11/03/16	Thursday	19:57	0	0	1-None	\$5,000	Left-Turn	Long	No	Night	Dry	FTYROW
45	11/03/16	Saturday	14:00	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Careless Driving
46	11/20/16	Sunday	16:17	0	0	1-None	\$3,000	Angle	Short	No	Day	Dry	Ran Red Light
46	11/24/16	Thursday	18:00	0	0	1-None	\$3,000	Angle Left-Turn		No	Night	Dry	FTYROW
47	11/24/10	Thursday	17.41	0	0	1-None	\$7,000	Left-Turn	Long	No No	Nignt	Dry	FTYROW

Left-Turn

Short

Day

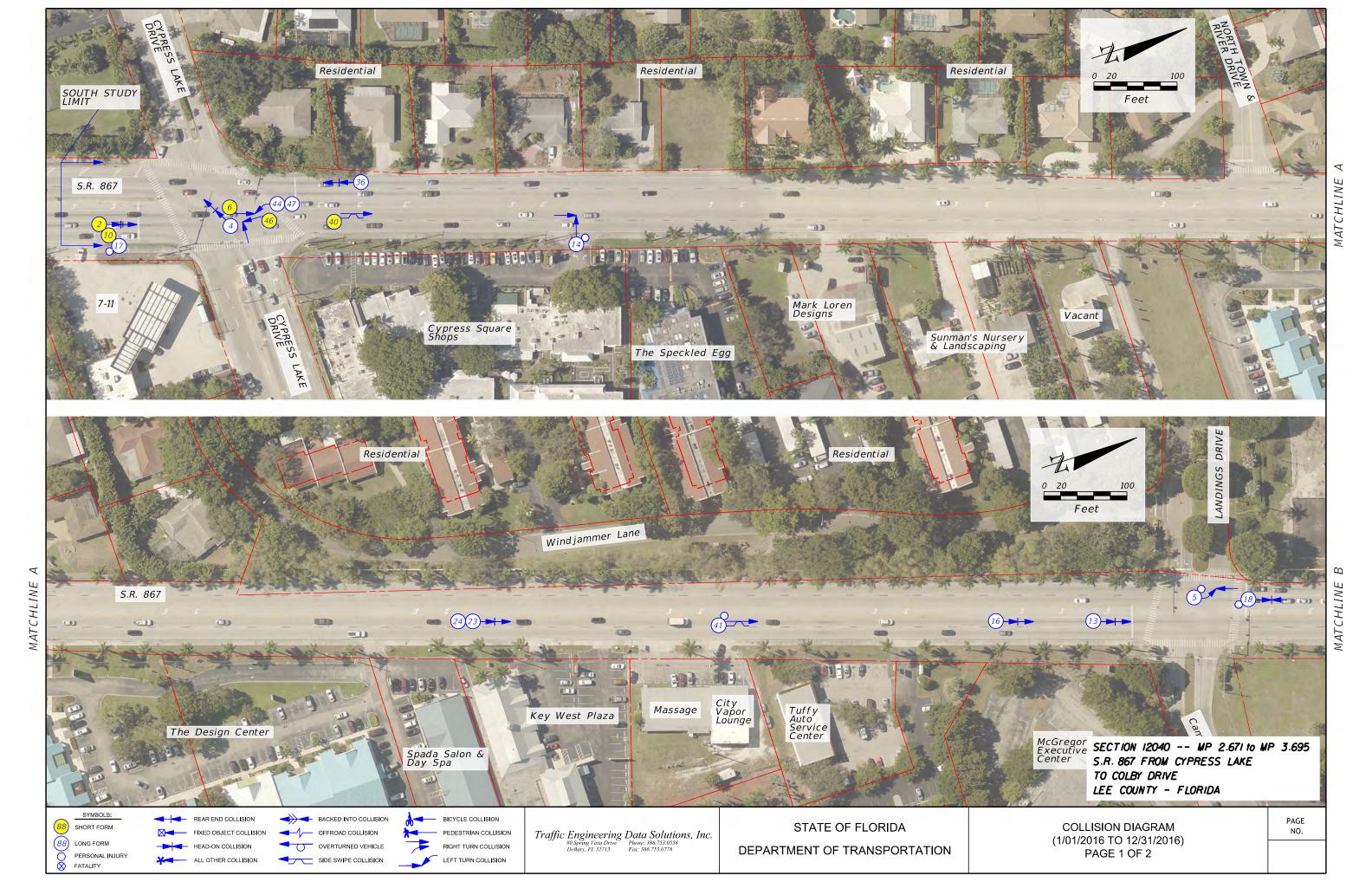
Wet

1-None

11/28/16 Monday 17:41

FTYROW

						COLI	LISION	SUMMA	RY					
Section:	12040					State Road:	867			County:	Lee			
Intersecting	g route:	Cypress I	Lake / C	Colby Di	ive	Milepost:	2.671 - 3.695	5		Data by:	TSH			
Study perio	od:	1/1/2016	to	12/31/2	016					Date:	1/16/2020)		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUT	TING CAUSE
49	12/16/16	Friday	16:39	0	3	2-Possible	\$6,000	Rear-End	Long	No	Day	Dry	Careless	Driving
50	12/27/16	Tuesday	17:04	0	0	1-None	\$0	Rear-End	Long	No	Day	Dry	Careless	Driving
TOTAL				0	21		\$208,100							
TOTAL		Injury Sev	erity		Amala	Head-On	Left-Turn	Rear-End	Side-Swipe					
NO.	Property D	amage Only	Injury	Fatality	Angle	nead-On	Len-Turn	Kear-End	Side-Swipe					
50	3	8	12	0	4	1	10	28	7	0	0	0	0	0
Percent	70	5%	24%	0%	8%	2%	20%	56%	14%	0%	0%	0%	0%	0%
CONTRIB-	Time	of Day	Paveme	nt Cond.	DUI	Failed to Maintain	Following Too	Too Fast For	Improper	Ran Red	FTYROW	Improper	Careless	
CAUSE	Day	Night	Dry	Wet	DOI	Single Lane	Closely	Conditions	Lane Change	Light	FIIKOW	Turn	Driving	
Total	37	13	41	9	1	1	10	1	3	8	5	2	19	0
Percent	74%	26%	82%	18%	2%	2%	20%	2%	6%	16%	10%	4%	38%	0%





	FLORIDA DEPARTMENT OF TRANSPORTATION													
						COLLI	SION	SUMMAI	RY					
Section:	12040					State Road:	867			County:	Lee			
Intersectin	g route:	Cypress I	Lake / C	Colby D	rive	Milepost:	2.671 - 3.69	5		Data by:	SEN			
Study perio	od:	1/1/2017	to	12/31/2	2017					Date:	1/17/20	20		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE	
1	01/11/17	Wednesday	0:12	0	0	1-None	\$10,000	Fixed-Object	Long	Yes	Night	Dry	Lost Control	
2	01/12/17	Thursday	13:25	0	0	1-None	\$6,000	Left-Turn	Long	No	Day	Dry	FTYROW	
3	01/13/17	Friday	9:21	0	0	1-None	\$1,200	Rear-End	Long	No	Day	Wet	Following Too Closely	
4	01/18/17	Wednesday	15:50	0	0	1-None	\$2,100	Rear-End	Short	No	Day	Dry	Careless Driving	
5	01/19/17	Thursday	18:22	0	0	1-None	\$3,000	Left-Turn	Long	No	Day	Dry	FTYROW	
6	01/27/17	Friday	14:25	0	0	1-None	\$1,000	Backed-Into	Long	No	Day	Dry	Improper Backing	
7	02/01/17	Wednesday	11:59	0	0	1-None	\$3,000	Side-Swipe	Long	No	Day	Dry	Careless Driving	
8	02/11/17	Saturday	19:15	0	0	1-None	\$2,000	Angle	Long	Yes	Night	Dry	DUI	
9	02/11/17	Saturday	20:13	0	0	1-None	\$0	Rear-End	Short	No	Night	Dry	Following Too Closely	
10	02/14/17	Tuesday	18:08	0	1	2-Possible	\$3,200	Rear-End	Long	No	Day	Dry	Careless Driving	
11	02/17/17	Friday	15:23	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
12	02/20/17	Monday	14:23	0	0	1-None	\$1,000	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
13	03/06/17	Monday	6:22	0	0	1-None	\$0	Rear-End	Short	No	Night	Dry	Careless Driving	
14	03/10/17	Friday	19:50	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
15	04/10/17	Monday	16:08	0	1	2-Possible	\$12,300	Left-Turn	Long	No	Day	Dry	FTYROW	
16	04/16/17	Sunday	20:59	0	0	1-None	\$2,800	Rear-End	Long	Yes	Night	Dry	Careless Driving	
17	04/17/17	Monday	16:43	0	0	1-None	\$6,300	Rear-End	Long	No	Day	Wet	Careless Driving	
18	04/18/17	Tuesday	5:50	0	0	1-None	\$1,250	Rear-End	Short	No	Day	Dry	Careless Driving	
19	04/19/17	Wednesday	11:18	0	0	1-None	\$3,000	Rear-End	Long	No	Day	Dry	Following Too Closely	
20	04/21/17	Friday	21:15	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Following Too Closely	
21	04/22/17	Saturday	22:24	0	0	1-None	\$2,000	Rear-End	Long	No	Night	Dry	Careless Driving	
22	04/24/17	Monday	14:57	0	0	1-None	\$2,000	Side-Swipe	Long	No	Day	Dry	Improper Lane Change	
23	04/27/17	Thursday	21:43	0	2	3-Non-Incapacitating	\$9,000	Rear-End	Long	No	Night	Dry	Careless Driving	
24	05/03/17	Wednesday	21:50	0	0	1-None	\$2,500	Rear-End	Short	No	Night	Dry	Careless Driving	
25	05/04/17	Thursday	12:19	0	0	1-None	\$6,200	Left-Turn	Long	No	Day	Dry	Ran Red Light	
26	05/17/17	Wednesday	8:59	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Following Too Closely	
27	05/23/17	Tuesday	14:23	0	0	1-None	\$500	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
28	05/24/17	Wednesday	14:40	0	2	2-Possible	\$2,000	Left-Turn	Long	Yes	Day	Dry	FTYROW	
29	05/25/17	Thursday	13:46	0	0	1-None	\$500	Side-Swipe	Long	No	Day	Dry	Careless Driving	
30	05/26/17	Friday	9:12	0	0	1-None	\$1,800	Rear-End	Long	No	Day	Dry	Careless Driving	
31	05/30/17	Tuesday	8:58	0	0	1-None	\$500	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
32	07/07/17	Friday	15:30	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
33	07/17/17	Monday	17:30	0	0	1-None	\$6,000	Rear-End	Long	No	Day	Dry	Careless Driving	
34	07/17/17	Monday	21:45	0	0	1-None	\$2,000	Backed-Into	Long	No	Night	Dry	Improper Backing	
35	07/24/17	Monday	16:10	0	2	2-Possible	\$5,000	Left-Turn	Long	No	Day	Dry	FTYROW	
36	07/25/17	Tuesday	15:43	0	0	1-None	\$6,000	Rear-End	Long	No	Day	Dry	Careless Driving	
37	07/25/17	Tuesday	16:06	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
38	08/04/17	Friday	11:49	0	0	1-None	\$20,000	Rear-End	Long	No	Day	Dry	Careless Driving	
39	08/04/17	Friday	12:15	0	0	1-None	\$0	Rear-End	Short	No	Day	Dry	Careless Driving	
40	08/11/17	Friday	12:57	0	0	1-None	\$5,000	Fixed-Object	Long	No	Day	Dry	Careless Driving	
41	08/12/17	Saturday	19:03	0	0	1-None	\$7,000	Left-Turn	Long	No	Day	Dry	Ran Red Light	
42	08/14/17	Monday	19:07	0	1	2-Possible	\$7,500	Rear-End	Long	No	Day	Wet	Careless Driving	
43	08/20/17	Sunday	12:50	0	0	1-None	\$10,000	Left-Turn	Long	No	Day	Dry	FTYROW	
44	08/25/17	Friday	8:22	0	0	1-None	\$0	Rear-End	Long	No	Day	Wet	Careless Driving	
45	08/30/17	Wednesday	20:25	0	0	1-None	\$4,000	Rear-End	Short	No	Night	Dry	Careless Driving	
46	09/25/17	Monday	13:06	0	0	1-None	\$1,000	Side-Swipe	Short	No	Day	Dry	Improper Lane Change	
47	09/25/17	Monday	15:35	0	1	4-Incapacitating	\$15,000	Left-Turn	Long	No	Day	Dry	FTYROW	
48	10/02/17	Monday	11:19	0	0	1-None	\$6,000	Angle	Long	No	Day	Dry	Ran Red Light	
40	10/02/17	I T 1	6.20			2 Daggible	\$12,000	Loft Turm	т	l at	l D	D	Don Dod Light	

10/03/17 Tuesday

6:38

2-Possible

\$13,000

Left-Turn

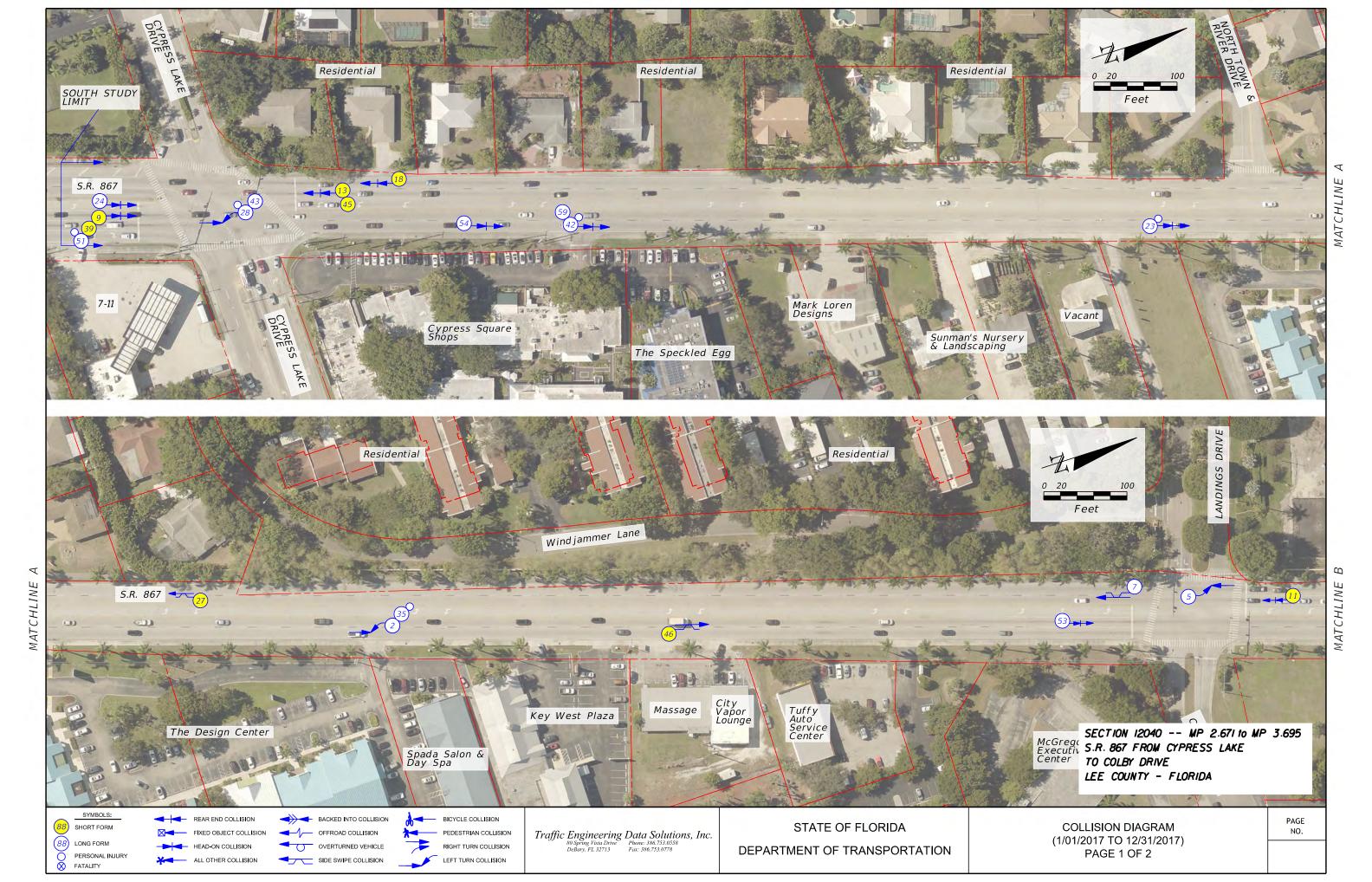
Long

Day

Dry

Ran Red Light

						COLLI	SION	SUMMA	R Y					
Section:	12040					State Road:	867			County:	Lee			
Intersecting	g route:	Cypress I	Lake / (Colby D	rive	Milepost:	2.671 - 3.695	5		Data by:	SEN			
Study perio	od:	1/1/2017	to	12/31/2	017					Date:	1/17/20	20		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUT	TING CAUSE
50	10/25/17	Wednesday	13:40	0	0	1-None	\$750	Side-Swipe	Short	No	Day	Dry	Careless	Driving
51	11/03/17	Friday	19:18	0	1	2-Possible	\$12,000	Rear-End	Long	No	Day	Dry	Careless	Driving
52	11/07/17	Tuesday	14:11	0	0	1-None	\$5,200	Side-Swipe	Long	No	Day	Dry	Careless	Driving
53	11/21/17	Tuesday	16:56	0	0	1-None	\$15,000	Rear-End	Long	No	Day	Dry	Careless	Driving
54	11/22/17	Wednesday	14:58	0	0	1-None	\$16,000	Rear-End	Long	No	Day	Dry	Following 7	Γοο Closely
55	12/04/17	Monday	21:46	0	0	1-None	\$1,500	Rear-End	Short	No	Night	Dry	Careless	Driving
56	12/14/17	Thursday	16:41	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Careless	Driving
57	12/15/17	Friday	21:05	0	1	2-Possible	\$1,100	Side-Swipe	Long	No	Night	Dry	Careless	Driving
58	12/18/17	Monday	17:09	0	0	1-None	\$1,500	Rear-End	Short	No	Day	Dry	Careless	Driving
59	12/26/17	Tuesday	9:20	0	0	1-None	\$15,000	Rear-End	Long	No	Day	Dry	Careless	Driving
TOTAL				0	14		\$265,700							
TOTAL NO.	Property D	Injury Sev amage Only		Fatality	Angle	Side-Swipe	Backed-Into	Left-Turn	Fixed-Object	Rear-End				
59	4	9	10	0	2	10	2	10	2	33	0	0	0	0
Percent	83	3%	17%	0%	3%	17%	3%	17%	3%	56%	0%	0%	0%	0%
CONTRIB- CAUSE	Time Day	of Day Night	Paveme	nt Cond. Wet	Careless Driving	Improper Lane Change	Following Too Closely	Improper Backing	Ran Red Light	Lost Control	DUI	FTYROW		
Total	47	12	55	4	33	5	6	2	4	1	1	7	0	0
Percent	80%	20%	93%	7%	56%	8%	10%	3%	7%	2%	2%	12%	0%	0%





						COLLI	ICION	CHMMA	D V				
6 4:	12040					COLLI		SUMMA	K Y	G	T		
Section:	12040		Lalva / C	Caller D		State Road:		<u> </u>		County:	Lee		
Intersectin		Cypress I				Milepost:	2.671 - 3.69	3		Data by:	TSH	10	
Study peri	oa:	1/1/2018	to	12/31/2	2018					Date:	1/20/20		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUTING CAUSE
1	01/03/18	Wednesday	15:14	0	0	1-None	\$4,500	Angle	Long	No	Day	Dry	FTYROW
2	01/16/18	Tuesday	14:47	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Careless Driving
3	02/01/18	Thursday	6:50	0	0	1-None	\$2,500	Side-Swipe	Short	No	Day	Dry	Improper Lane Change
4	02/01/18	Thursday	17:38	0	1	3-Non-Incapacitating	\$7,000	Left-Turn	Long	No	Day	Dry	FTYROW
5	02/09/18	Friday	12:28	0	0	1-None	\$6,000	Rear-End	Long	Yes	Day	Dry	Careless Driving
6	02/12/18	Monday	11:10	0	0	1-None	\$10,000	Rear-End	Long	No	Day	Dry	Careless Driving
7	02/22/18	Thursday	15:07	0	0	1-None	\$500	Rear-End	Long	No	Day	Dry	Careless Driving
8	02/26/18	Monday	15:25	0	0	1-None	\$3,000	Left-Turn	Short	No	Day	Dry	FTYROW
9	03/01/18	Thursday	16:00	0	0	1-None	\$800	Rear-End	Short	No	Day	Dry	Following Too Closely
10	03/11/18	Sunday	3:50	0	0	1-None	\$10,000	Fixed-Object	Long	No	Night	Wet	Lost Control
11	03/13/18	Tuesday	21:57	0	0	1-None	\$1,000	Left-Turn	Short	No	Night	Dry	FTYROW
12	03/14/18	Wednesday	18:00	0	0	1-None	\$10,000	Right-Turn	Short	No	Day	Dry	FTYROW
13	03/16/18	Friday	15:21	0	0	1-None	\$12,000	Rear-End	Long	No	Day	Dry	Careless Driving
14	03/16/18	Friday	15:38	0	0	1-None	\$2,500	Rear-End	Long	No	Day	Dry	Following Too Closely
15	03/19/18	Monday	14:30	0	1	2-Possible	\$6,500	Right-Turn	Long	No	Day	Dry	FTYROW
16	03/19/18	Monday	14:49	0	0	1-None	\$8,000	Right-Turn	Long	No	Day	Dry	FTYROW
17	03/24/18	Saturday	6:22	1	1	5-Fatal	\$7,000	Left-Turn	Long	No	Night	Dry	FTYROW
18	03/27/18	Tuesday	17:30	0	1	2-Possible	\$500	Rear-End	Long	No	Day	Dry	Careless Driving
19	03/28/18	Wednesday	10:25	0	0	1-None	\$1,000	Rear-End	Long	No	Day	Dry	Careless Driving
20	04/14/18	Saturday	11:03	0	0	1-None	\$14,000	Rear-End	Long	No	Day	Dry	Following Too Closely
21	04/14/18	Saturday	17:54	0	0	1-None	\$1,500	Angle	Short	No	Day	Dry	Failed to Maintain Single Lane
22	04/21/18	Saturday	14:10	0	0	1-None	\$2,000	Side-Swipe	Short	No	Day	Dry	Improper Lane Change
23	04/23/18	Monday	8:42	0	3		\$34,000	Rear-End		No	Day	Dry	Careless Driving
24	04/25/18	Wednesday	12:53	0	0	3-Non-Incapacitating 1-None	\$1,600	Side-Swipe	Long Short	No	Day	Dry	Improper Lane Change
25	04/29/18		13:51	0	0		\$4,000	•					1 1
		Sunday				1-None		Side-Swipe	Short	No	Day	Dry	Failed to Maintain Single Land
26	05/01/18	Tuesday	15:37	0	0	1-None	\$1,700	Rear-End	Short	No	Day	Dry	Following Too Closely
27	05/08/18	Tuesday	10:57			1-None	\$6,000	Rear-End	Long	No	Day	Dry	Following Too Closely
28	05/08/18	Tuesday	13:25	0	1	2-Possible	\$8,000	Rear-End	Long	No	Day	Dry	Following Too Closely
29	05/17/18	Thursday	7:15	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Following Too Closely
30	05/22/18	Tuesday	17:15	0	6	3-Non-Incapacitating	\$10,000	Left-Turn	Long	No	Day	Dry	FTYROW
31	06/01/18	Friday	18:55	0	0	1-None	\$4,000	Rear-End	Short	No	Day	Wet	Following Too Closely
32	06/05/18	Tuesday	17:25	0	3	2-Possible	\$2,000	Rear-End	Long	No	Day	Dry	Careless Driving
33	06/11/18	Monday	14:25	0	0	1-None	\$3,000	Rear-End	Short	No	Day	Dry	Careless Driving
34	06/18/18	Monday	10:30	0	3	2-Possible	\$8,000	Rear-End	Long	No	Day	Dry	Careless Driving
35	06/21/18	Thursday	11:02	0	0	1-None	\$8,000	Angle	Long	No	Day	Dry	Ran Red Light
36	06/22/18	Friday	14:21	0	1	4-Incapacitating	\$10,000	Head-On	Long	No	Day	Dry	Careless Driving
37	06/29/18	Friday	10:05	0	1	2-Possible	\$300	Rear-End	Long	No	Day	Dry	Careless Driving
38	07/03/18	Tuesday	13:07	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Following Too Closely
39	07/03/18	Tuesday	13:31	0	0	1-None	\$1,100	Rear-End	Short	No	Day	Dry	Following Too Closely
40	07/19/18	Thursday	16:08	0	0	1-None	\$3,500	Rear-End	Short	No	Day	Dry	Following Too Closely
41	07/20/18	Friday	11:37	0	0	1-None	\$1,000	Rear-End	Short	No	Day	Dry	Following Too Closely
42	07/31/18	Tuesday	11:27	0	0	1-None	\$1,500	Right-Turn	Short	No	Day	Dry	FTYROW
43	08/03/18	Friday	9:15	0	0	1-None	\$2,000	Side-Swipe	Short	No	Day	Dry	Failed to Maintain Single Lane
44	08/16/18	Thursday	8:40	0	0	1-None	\$400	Side-Swipe	Short	No	Day	Dry	Careless Driving
45	08/17/18	Friday	13:57	0	0	1-None	\$10,000	Left-Turn	Long	No	Day	Wet	FTYROW
46	08/22/18	Wednesday	17:57	0	0	1-None	\$2,501	Rear-End	Long	No	Day	Dry	Careless Driving
47	09/21/18	Friday	6:44	0	0	1-None	\$2,000	Side-Swipe	Short	No	Night	Dry	Careless Driving
48	10/31/18	Wednesday	20:54	0	1	3-Non-Incapacitating	\$7,000	Fixed-Object	Long	Yes	Night	Dry	DUI
		I	T		Γ .			T					

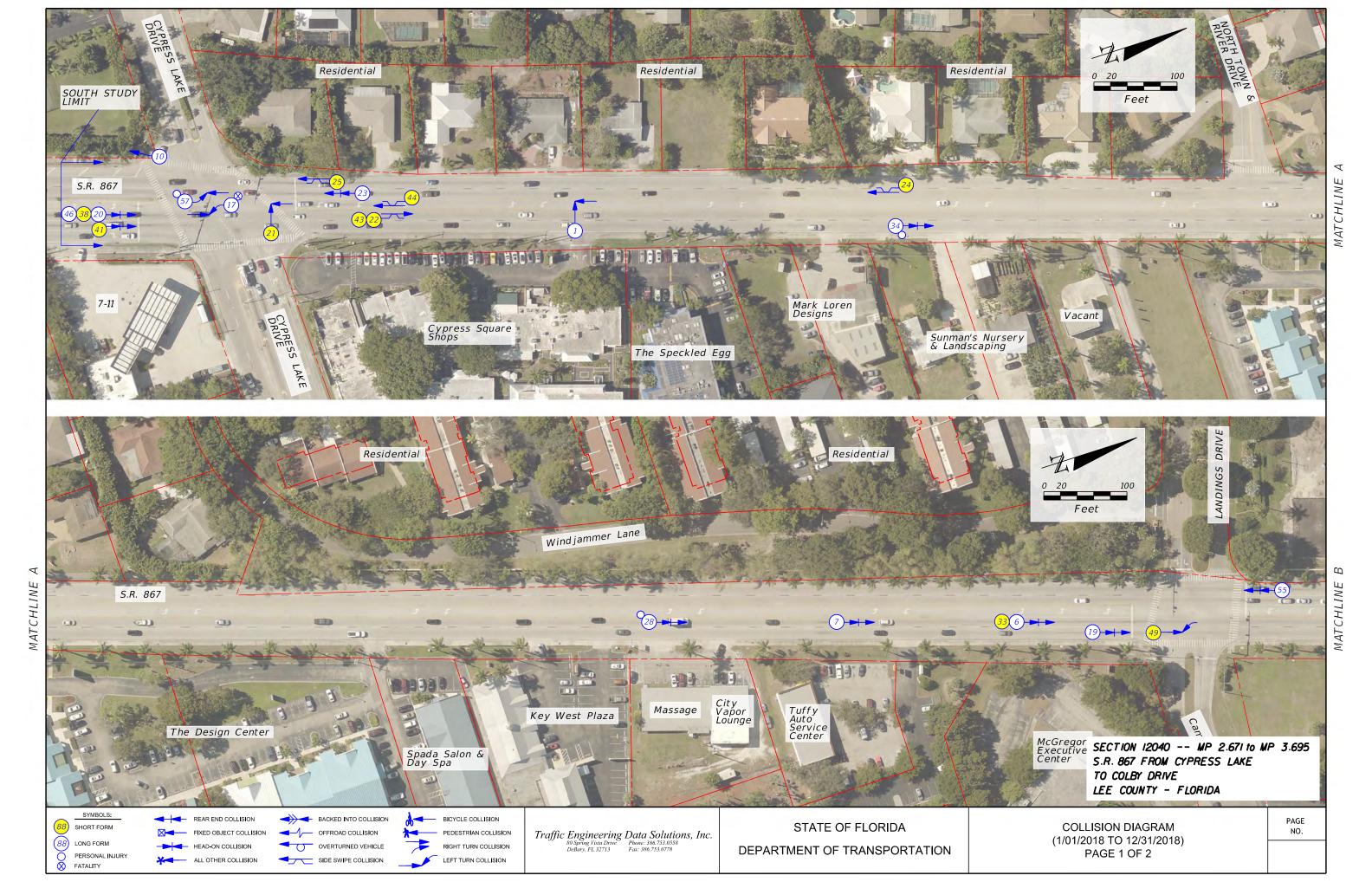
\$2,500

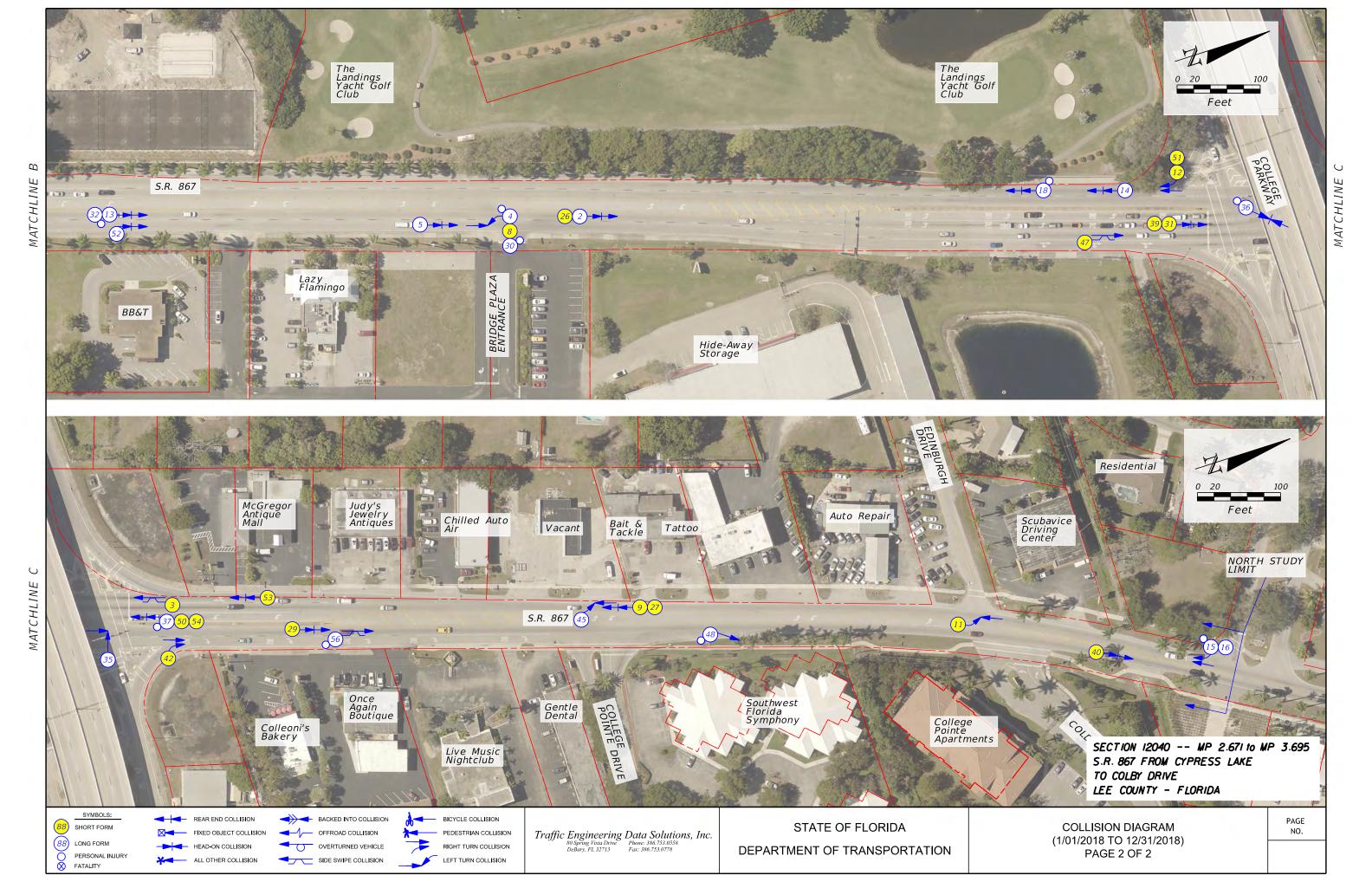
Left-Turn

1-None

FTYROW

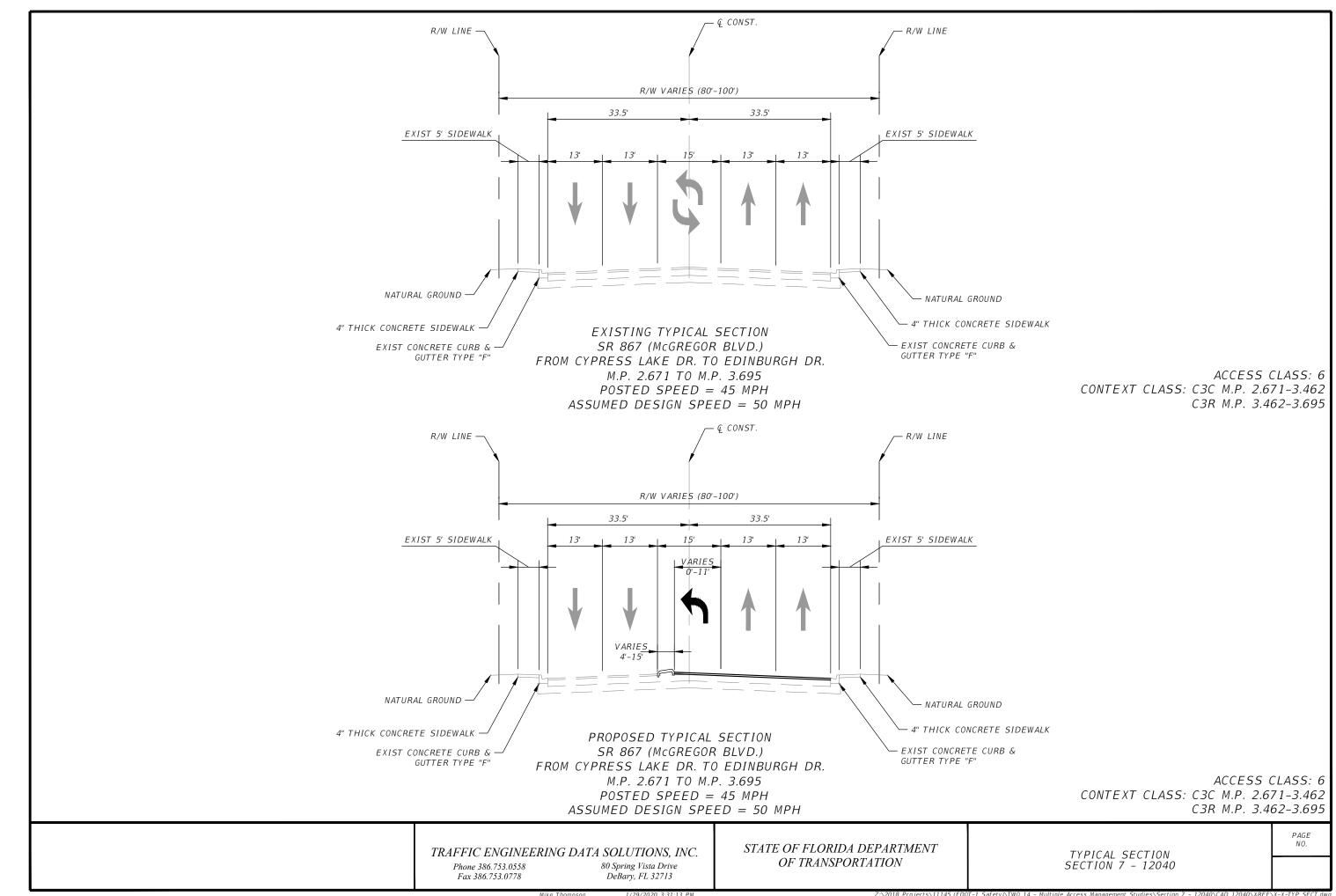
						COLLI	ISION	SUMMA	R Y					
Section:	12040					State Road:	867			County:	Lee			
Intersecting	g route:	Cypress I	Lake / (Colby D	rive	Milepost:	2.671 - 3.695	5		Data by:	TSH			
Study perio	od:	1/1/2018	to	12/31/2	018					Date:	1/20/20	19		
NO.	DATE	DAY	TIME	FATAL	INJURY	INJURY SEVERITY	PROPERTY DAMAGE	HARMFUL EVENT	FORM	DUI	DAY / NIGHT	WET / DRY	CONTRIBUT	TING CAUSE
50	11/08/18	Thursday	19:26	0	0	1-None	\$0	Rear-End	Short	No	Night	Dry	Following '	Γοο Closely
51	11/14/18	Wednesday	6:00	0	0	1-None	\$1,500	Right-Turn	Short	No	Night	Dry	FTY	ROW
52	11/14/18	Wednesday	10:30	0	0	1-None	\$1,700	Rear-End	Long	No	Day	Dry	Following '	Too Closely
53	11/14/18	Wednesday	12:37	0	0	1-None	\$5,000	Rear-End	Short	No	Day	Dry	Careless	Driving
54	11/15/18	Thursday	17:20	0	0	1-None	\$1,000	Rear-End	Short	No	Day	Dry	Careless	Driving
55	12/05/18	Wednesday	10:40	0	0	1-None	\$4,500	Rear-End	Long	No	Day	Dry	Following '	Гоо Closely
56	12/20/18	Thursday	18:35	0	1	2-Possible	\$2,500	Side-Swipe	Long	No	Day	Wet	Improp	er Turn
TOTAL				1	24		\$275,601							
TOTAL		Injury Sev	erity		Angle	Fixed-Object	Head-On	Left-Turn	Rear-End	Right-	Side-			
NO.	Property D	amage Only	Injury	Fatality	Aligic	Tixed-Object	Heau-On	Lett-1 um	Real-Elia	Turn	Swipe			
56	4	13	12	1	3	2	1	7	30	5	8	0	0	0
Percent	7	7%	21%	2%	5%	4%	2%	13%	54%	9%	14%	0%	0%	0%
CONTRIB- CAUSE	Time Day	of Day Night	Paveme Dry	nt Cond. Wet	DUI	Failed to Maintain Single Lane	Following Too Closely	Improper Lane Change	Improper Turn	Ran Red Light	Lost Control	FTYROW	Careless Driving	
Total	48	8	52	4	1	3	15	3	1	1	1	13	18	0
Percent	86%	14%	93%	7%	2%	5%	27%	5%	2%	2%	2%	23%	32%	0%

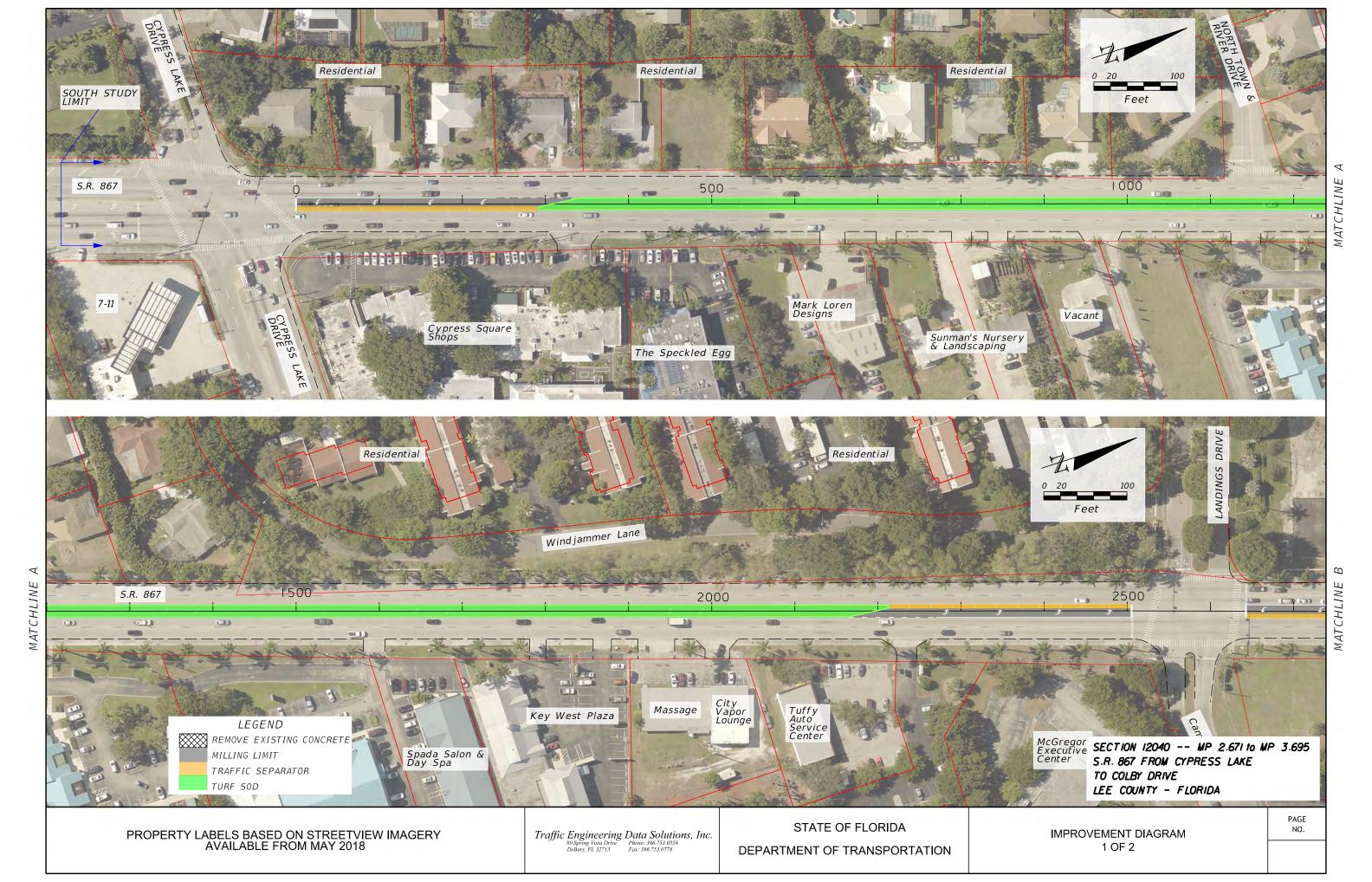


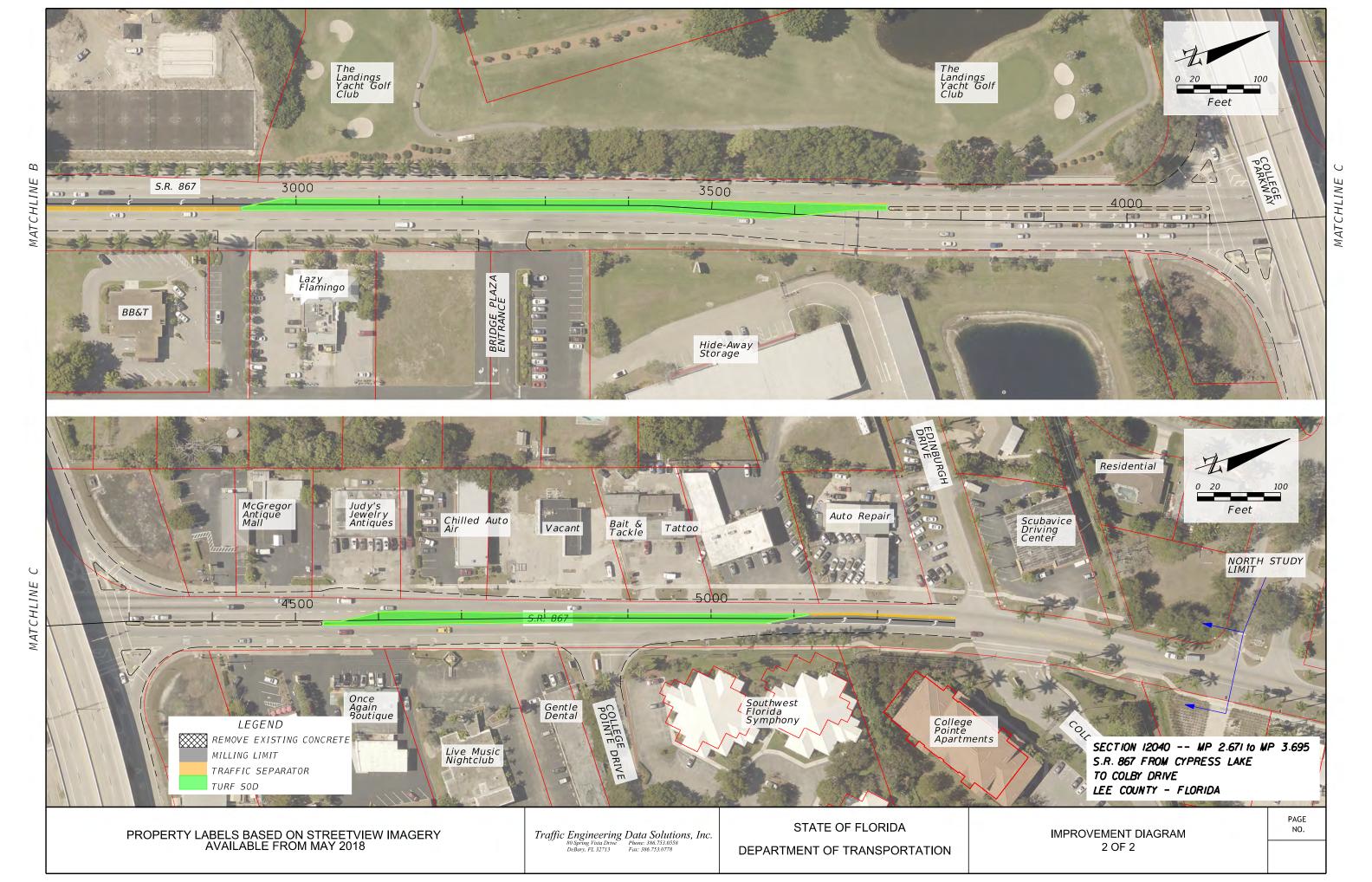


APPENDIX C

TYPICAL SECTION AND IMPROVEMENT DIAGRAM







APPENDIX D CRASH MODIFICATON FACTORS



CMF / CRF Details

CMF ID: 3034

Install raised median

Description:

Prior Condition: no raised median

Category: Access management

Study: Analyzing Raised Median Safety Impacts Using Bayesian Methods, Schultz

et al., 2011

Star Quality Rating:	[View score details]

Cr	ash Modification Factor (CMF)
Value:	0.61
Adjusted Standard Error:	
Unadjusted Standard Error:	

Crash Reduction Factor (CRF)		
Value:	39 (This value indicates a decrease in crashes)	
Adjusted Standard Error:		

Unadjusted	Standa	rd Error:
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	Applicability
Crash Type:	All
Crash Severity:	All
Roadway Types:	Not specified
Number of Lanes:	
Road Division Type:	Divided by Median
Speed Limit:	
Агеа Туре:	
Traffic Volume:	10000 to 55000 Average Daily Traffic (ADT)
Time of Day:	All
If o	countermeasure is intersection-based
Intersection Type:	
Intersection Geometry:	
Traffic Control:	
Major Road Traffic Volume:	
Minor Road Traffic Volume:	

Development Details				
Date Range of Data Used:	1998 to 2008			
Municipality:				
State:	UT			

Country:	USA
Type of Methodology Used:	Before/after using empirical Bayes or full Bayes
Sample Size Used:	Site-years
Before Sample Size Used:	32 Site-years
After Sample Size Used:	28 Site-years

Other Details			
Included in Highway Safety Manual?	No		
Date Added to Clearinghouse:	Jul-15-2011		
Comments:			

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.

APPENDIX E NET PRESENT VALUE

Project Name	S.R. 544 AM
Current Year	2020
Project Completion	2021
Project Life	20
Project Category	
Discount Rate	0.04
Project Ends	2040
2.000	0.0

Year #	0	1	2
Calendar Year	2020	2021	2022
Estimated Cost	477,188		
Estimated Benefits		1,200,409	1,200,409
Calculation			
Discount Factor	1.000	0.962	0.925
Discounted Cost	-477,188	0	0
Discounted Benefits	0	1,154,239	1,109,845
NPV	15,836,757		

3	4	5	6	7	8	9	10	11
2023	2024	2025	2026	2027	2028	2029	2030	2031
1,200,409	1,200,409	1,200,409	1,200,409	1,200,409	1,200,409	1,200,409	1,200,409	1,200,409
0.889	0.855	0.822	0.790	0.760	0.731	0.703	0.676	0.650
0	0	0	0	0	0	0	0	0
1,067,159	1,026,114	986,648	948,700	912,212	877,127	843,391	810,953	779,763
12	13	14	15	16	17	18	19	20
12 2032	13 2033		15 2035		17 2037	18 2038	19 203 9	20 2040
	2033	2034	2035		2037	2038	2039	2040
1,200,409	1,200,409	2034	2035 1,200,409	2036 1,200,409	2037 1,200,409	2038	2039	2040
2032	2033	2034	2035	2036	2037	2038	2039	2040
1,200,409	1,200,409	1,200,409	2035 1,200,409	2036 1,200,409	2037 1,200,409	1,200,409	2039 1,200,409	1,200,409