TEXAS-AMERICANA ROAD SAFETY SMALL AREA STUDY ORANGE COUNTY DISTRICT 6



PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION

Ruby Dempsey-Rozier, Manager
John Klimovitch, P.E., County Traffic Engineer
Christine Lofye, P.E., Project Manager
4200 S John Young Parkway ◊ Orlando, FL 32839-9205
407-836-7890 ◊ Fax 407-836-7869
www.orangecountyfl.net

Acknowledgements

The following Orange County staff members were participants in the study process, participating in either field reviews or data collection, but in all cases providing valuable knowledge and expertise.

Contributors

<u>Traffic Engineering Division</u>

Christine Lofye, P.E., Project Manager
Darryl Johnson, Assistant Project Manager
Kevin Miller, School Safety Coordinator
Krista Barber, Engineer II
Nadine Sequeira, Administrative Assistant
Arthur Woods, Technician IV
Todd Henderson, Senior CADD Technician

Roads and Drainage Division Juane Alvarado, Senior Foremar

Duane Alvarado, Senior Foreman Elbert Walker, Foreman

Highway Construction Division

Roberto Ng, P.E., Senior Engineer Guy King, Engineering Inspector III

Neighborhood Preservation Division

Cristina Pichardo-Cruz, Planner II Levi Stewart, intern

Transportation Planning Division

Alissa Barber-Torres, Ph.D., AICP, Chief Planner Yvette Brandt, AICP, Senior Planner

Table of Contents

									Page N	ο.
I. Introduction	า	•			•	•		•	•	1
II. Purpose									•	1
III. Study Area										1
IV. Data Collec	tion									6
A.	Interse	ction Tr	affic Co	ontrol	•					6
B.	School	Locatio	ns and	School	Safety	Studies.				6
C.					-	nents.			•	6
D.			_		an Facil					8
Е	Existing				•					11
F.	Speed S	•			•					13
G.	Crash D									13
H.			ning Ca			nent.				18
I	Field Re									18
V. Public Invol	vement	and Oi	ıtroach							
A.	Educati									21
В.	Commi		=	•	•	•	•	•	•	21
Б. С.	Agency	-	_		•	•	•	•	•	23
C.	Agency	Outrea	iCII	•	•	•	•	•	•	23
VI. LYNX Bus S	top Rev	iew				•	•	•		25
VII. Findings a	nd Reco	mmeno	led Cou	ınterm	easures					27
A.	Americ	ana Boi	ulevard	l 	•					28
B.	Texas A	venue								46
C.	S. Rio G	arande <i>i</i>	Avenue	· .						62
D.	Honoui	r Road							•	76
E.	Holden	Avenu	e.			•		•		7 9
VIII. Recomme	ended Lo	ong-Ter	m Capi	tal Imp	roveme	nts				82

<u>Appendices</u>

Appendix A - Holden Avenue Typical Section

Appendix B - Existing Transit Ridership

Appendix C – ADA Criteria

Appendix D - Community Meeting Sign-in Sheets

List of Figures

Figure No.	Page No.
Figure 1 – Study Area Map	2
Figure 2 – Future Land Use Map	4
Figure 3 – Study Intersection Traffic Control	7
Figure 4 – Existing Sidewalk Locations	10
Figure 5 – Existing Transit Service	12
Figure 6 – Crash History (2011-2013)	16
Figure 7 – Bicycle and Pedestrian Crash History (2011-2013)	17
Figure 8 – Field Review Prompt List	19
Figure 9 – Intersection Field Inspection Form	20
Figure 10 – Community Meeting Notice	22

List of Tables

<u>Table No.</u>	<u>Page No.</u>
Table 1 – Study Roadways and Traffic Counts	5
Table 2 – Speed Studies	13
Table 3 – Comparison of Study Area Crash Statistics to County-wide	14
Table 4 – Study Intersection Crash Rates	15
Table 5 – Citizen Concerns from Community Meeting	24
Table 6 – Requested Bus Stop Shelters	25
Table 7 – Requested Bus Stop Shelter Lighting	26

I. Introduction

The Orange County Traffic Engineering Division has conducted a comprehensive evaluation in the Texas-Americana area of safety for all road users, including drivers of vehicles, pedestrians, bicyclists, and transit users. The study was completed entirely inhouse by Orange County staff. The study consisted of daytime drives and walks of the identified study area roadways, analysis of crash records for study area roadways and intersections, the collection of citizen concerns at a community meeting, and input from the District 6 County Commissioner.

Identified traffic safety issues were evaluated and appropriate improvements were determined. The improvements were classified as either a short-term high priority safety improvement, short-term low or medium priority safety improvement, or long-term capital improvement. The results of the study are presented herein.

II. Purpose

The purpose of this road safety small area study is to evaluate the study focus roads and intersections in the Texas-Americana area of Orange County from a safety perspective and recommend improvement strategies.

According to the Federal Highway Administration "a Road Safety Audit (RSA) is the formal safety performance examination of an existing or future road or intersection by an independent, multidisciplinary team. It qualitatively estimates and reports on potential road safety issues and identifies opportunities for improvement in safety for all road users.

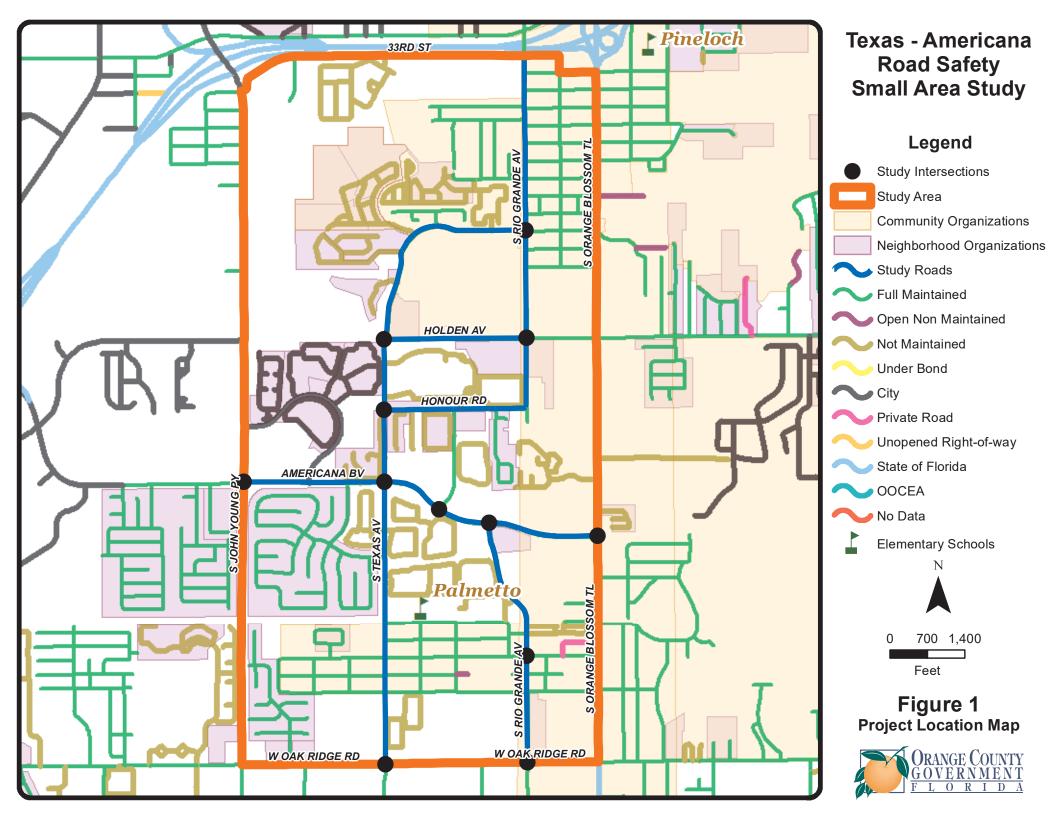
The aim of an RSA is to answer the following questions:

- What elements of the road may present a safety concern: to what extent, to which road user, and under what circumstances?
- What opportunities exist to eliminate or mitigate identified safety concerns?"

The study also aimed to identify Americans with Disabilities Act (ADA) issues found within county right-of-way related to transportation facilities. And for the first time, Crime Prevention through Environmental Design (CEPTED) issues were informally evaluated within this study area.

III. Study Area

The study area is bounded by John Young Parkway on the west, S. Orange Blossom Trail on the east, 33rd Street on the north, and Oak Ridge Road on the south. The study area is located entirely in District 6. The location of the study area is presented in **Figure 1**.



The study area consists of mostly residential land uses including various apartment complexes, condominiums, and single family residential communities. Commercial uses are located along Americana Boulevard between Texas Avenue and San Antonio Avenue and also along the S. Orange Blossom Trail and Oak Ridge Road corridors. Some industrial use is located north of Oak Ridge Road. The land use of the study area is presented in **Figure 2**.

The study area overlaps the Orange Blossom Trail Safe Neighborhood Council (Holden Heights) safe neighborhood between S. Rio Grande Avenue and S. Orange Blossom Trail.

The roads that were identified to be audited are listed in **Table 1**. The table includes the roadway section, distance, functional classification, number of lanes, most recent daily traffic count, and posted speed limit.

Signalized intersections that were evaluated as part of the study are:

Americana Boulevard at John Young Parkway

Americana Boulevard at Texas Avenue

Americana Boulevard at San Antonio Avenue

Americana Boulevard at S. Rio Grande Avenue

Americana Boulevard at S. Orange Blossom Trail

Texas Avenue at Oak Ridge Road

Texas Avenue at S. Rio Grande Avenue

S. Rio Grande Avenue at Holden Avenue

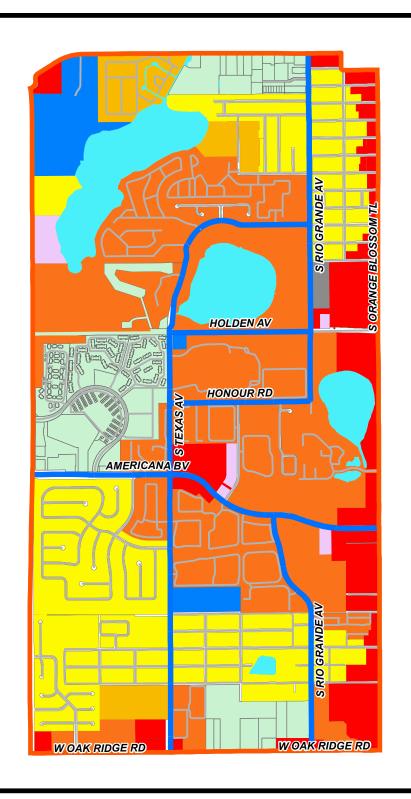
S. Rio Grande Avenue at Oak Ridge Road

Unsignalized intersections that were evaluated as part of the study are:

Texas Avenue at Holden Avenue

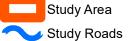
Texas Avenue at Honour Road

S. Rio Grande Avenue at Rose Avenue



Texas - Americana Road Safety Small Area Study

Legend



Low Density Residential

Low-Medium Density

Medium Density Residential

High Density Residential

Office

Commercial

Institutional

Planned Development **

Water Body

City



0 750 1,500

Feet

Figure 2 Future Land Use Map



Table 1
Texas-Americana Road Safety Small Area Study
Study Roadways and Traffic Counts

Cnt. Sta.	Roadway	From	From To Distance Jrsdct Func.		# Lanes	2013 AADT	2014 ADT	Count Location	Spd		
181	Americana Boulevard	John Young Parkway	Orange Blossom Trail	1.31 miles	County	Urban Minor Arterial	4	19,298	n/a	0.67 miles E. of John Young Py	35
184 & 182	Texas Avenue	Oak Ridge Road	Rio Grande Avenue	2 20 miles	2.30 miles County	Urban Major Collector	2	11,007	n/a	0.2 miles N. of Americana Bv	35
184 & 182	Texas Aveilue	Oak Muge Moau	No Grande Avende	2.30 1111163		Orban Major Conector	2	9,782	n/a	0.25 miles N. of Oak Ridge Rd	35
1053	Rio Grande Avenue	Holden Avenue	33rd Street	1.00 mile	County	Urban Minor Arterial	2	11,576	n/a	0.25 miles N. of Holden Av	35
n/a	Rio Grande Avenue	Honour Road	Holden Avenue	0.220 mile	County	Urban Major Collector	2	n/a	8,778	0.1 mile N. of Honour Rd	35
344	Rio Grande Avenue	Oak Ridge Road	Americana Boulevard	0.890 mile	County	Urban Major Collector	2	7,113	n/a	N. of Wakulla wy	30
n/a	Holden Avenue	Texas Avenue	Rio Grande Avenue	0.505 mile	County	Urban Major Collector	2	n/a	5,142	0.25 mile E. of Texas Ave	35
n/a	Honour Road	Texas Avenue	Rio Grande Avenue	0.510 mile	County	Urban Major Collector	2	n/a	8,251	0.25 mile E. of Texas Ave	30

IV. Data Collection

A. Intersection Traffic Control

Of the twelve study focus intersections within the study area, nine are signalized intersections. The intersection of Texas Avenue with Holden Avenue is a three-way stop controlled intersection. The intersection of Texas Avenue with Honour Road is a "T"-intersection with stop-control on Honour Road. The intersection of S. Rio Grande Avenue with Rose Avenue is a two-way stop controlled intersection. Stop signs are posted on the Rose Avenue approaches and an overhead flashing beacon flashes red for Rose Avenue and yellow for Rio Grande Avenue. The intersection traffic control for the twelve study intersections is depicted in **Figure 3.**

B. School Locations and School Safety Studies

There is one school located within the study area; it is Palmetto Elementary School located at 2015 Duskin Avenue, at the intersection of Duskin Avenue and Texas Avenue (see **Figure 1**). School Hours are 7:50 AM to 2:30 PM weekdays other than Wednesday. On Wednesday school get out one hour earlier, at 1:30 PM.

A reduced-speed school zone currently exists on Texas Avenue north and south of Duskin Avenue. School crossing guards are posted at the Americana Boulevard/Texas Avenue intersection and also at the Texas Avenue/Duskin Avenue intersection from 7:05 AM to 8:05 AM and 2:15 PM to 3:15 PM (1:15 PM to 2:15 PM Wed).

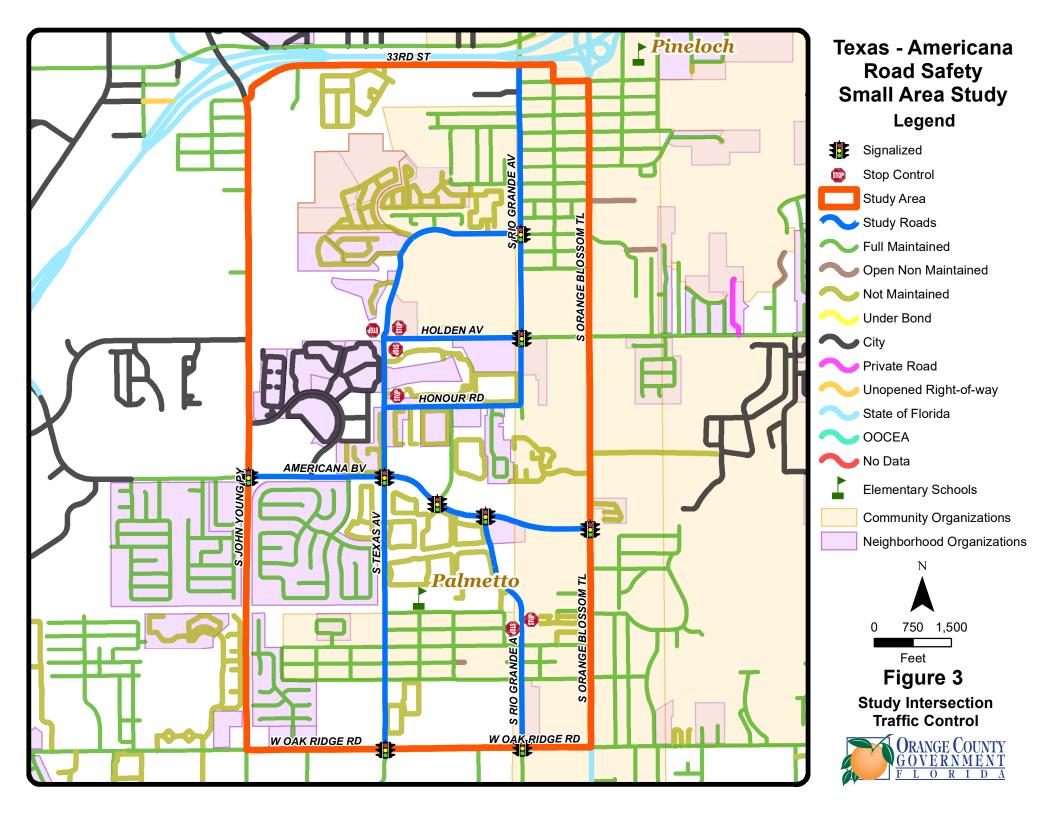
A school safety study for Palmetto Elementary School was completed by HNTB in 2007. Recommended improvements for student safety were installed at that time.

Although Palmetto Elementary School is the only school located within the study area, there are five other schools located near the study area. They are Pineloch Elementary School, Catalina Elementary School, Memorial Middle School, Oak Ridge High School and, and Jones High School. The school zones for each of these schools overlap the study area, and as such, students from these schools may also walk along study area roadways.

C. Planned and Programmed Improvements

The following road widening projects are planned within the study area:

Holden Avenue from John Young Parkway to Orange Blossom Trail (US 441) – 2 to 4 lane widening and extension. Improvements will include11-foot travel lanes, sidewalk, bicycle lanes, landscaping, roadway lighting, and an enclosed drainage system. For the section within the study area between Texas Avenue and Rio Grande Avenue, a retaining wall and pedestrian handrail is included. This project includes traffic signals at John Young Parkway, Texas Avenue, Rio Grande Avenue, and Orange Blossom Trail (US



441). The project is currently in the right-of-way acquisition phase. Construction is scheduled to begin January 2016 and be complete January 2018, pending the ability to timely acquire right-of-way. The proposed typical section is found in **Appendix A**.

<u>Texas Avenue from south of Oak Ridge Road to south of Holden Avenue</u> - 2 to 4 lane widening. Improvement will include 11-foot travel lanes, a raised landscaped median, sidewalk, bicycle lanes, roadway lighting, and an enclosed curb and gutter drainage system. This project includes traffic signals at Oak Ridge Road, Duskin Avenue, and Americana Boulevard. Design is complete, but no funding has been identified for right-of-way acquisition or construction.

D. Existing Bicycle and Pedestrian Facilities

Due to the high number of pedestrians within the study area and the walking routes to school along each study area roadway, it is important to have adequate sidewalks. All study area roadways currently have sidewalk on at least one side of the road except for Holden Avenue. Locations of existing sidewalk are depicted in **Figure 4**. Existing sidewalk gaps were noted at the following locations:

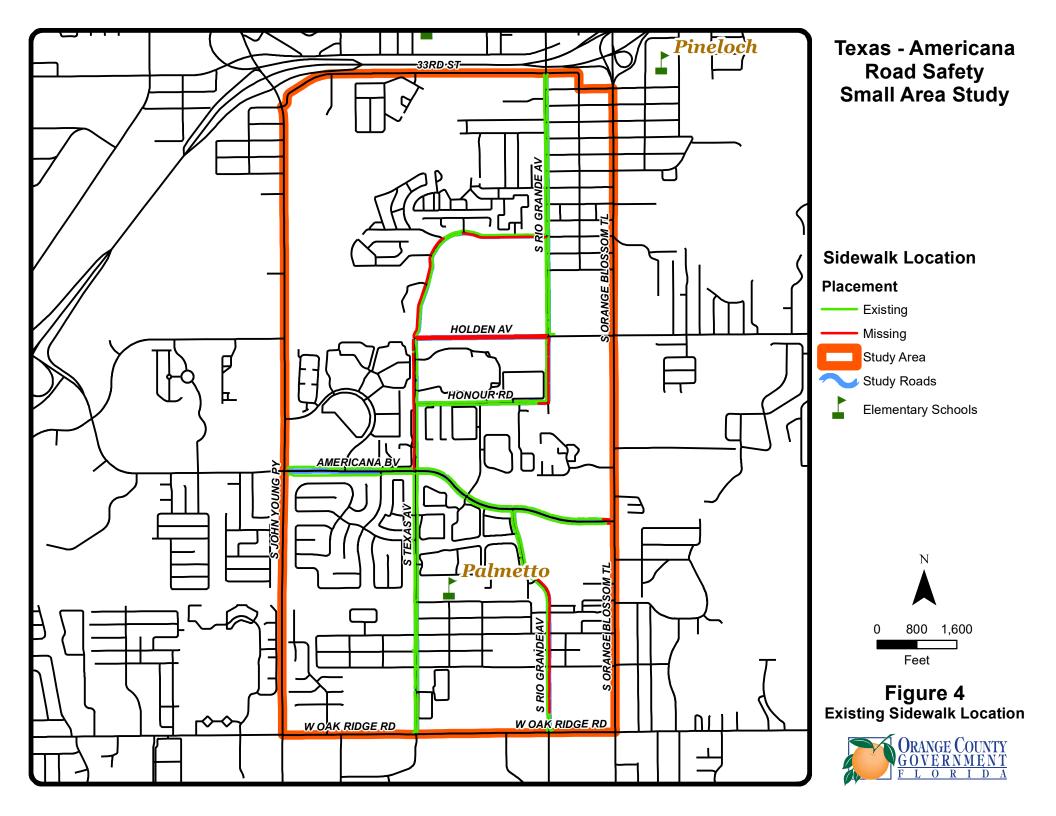
- Texas Avenue (west side) between Americana Boulevard and Honour Road
- Texas Avenue (west side) between Holden Avenue and Skan Court
- Texas Avenue (south side) between Dunwoodie Boulevard and S. Rio Grande Avenue
- S. Rio Grande Avenue (east side) from 360 feet north of Oak Ridge Road to approximately 600 feet north of Nimrod Lane
- S. Rio Grande Avenue (east side) from Honour Road to Holden Avenue
- Holden Avenue (both sides) from Texas Avenue to S. Rio Grande Avenue
- Honour Road (south side) from 160 feet west of S. Rio Grande Avenue to S. Rio Grande Avenue
- Americana Boulevard (north side) from 150 feet west of Orange Blossom Trail to Orange Blossom Trail
- Americana Boulevard (south side) from 30 feet west of Orange Blossom Trail to Orange Blossom Trail

Insufficient right-of-way exists to install sidewalk on Texas Avenue on the south side between Dunwoodie Boulevard and S. Rio Grande Avenue.

Both the Holden Avenue and Texas Avenue widening projects will include installation of sidewalk and bike lanes on both sides of the road. Sidewalk will be constructed on the east side of S. Rio Grande Avenue from Holden Avenue to 750' south of Holden Avenue as part of the Holden Avenue widening project. However, insufficient right-of-way exists to install sidewalk on S. Rio Grande Avenue on the east side for the remaining 500' south to Honour Road.

The sidewalk needed on Americana Boulevard was identified through study field reviews and constructed in September 2014 prior to study completion.

Currently no bike lanes exist on study area roadways.



E. Existing Transit Service

A portion of the community within the study area is transportation disadvantaged, relying on walking, biking, and transit for their transportation needs. LYNX currently provides transit service to the study area through three bus links illustrated in **Figure 5**:

Link 40 – Americana Boulevard/Universal Orlando

This bus route travels within the study area along Americana Boulevard from John Young Parkway to San Antonio Avenue, north on San Antonio Avenue to Honour Road, east on Honour Road to S. Rio Grande Avenue, and north on S. Rio Grande Avenue through the study area.

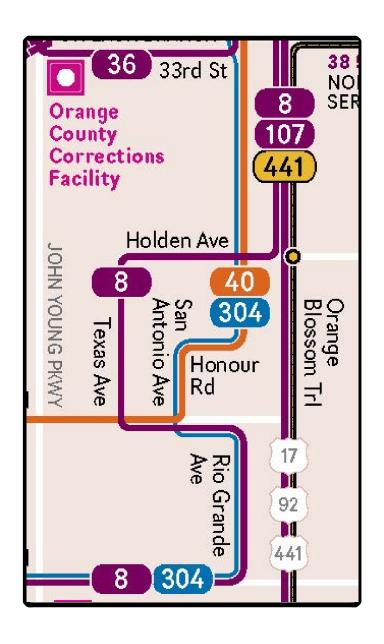
Link 8 – W. Oak Ridge Road/International Drive

This bus route travels within the study area along S. Rio Grande Avenue from Oak Ridge Road to Americana Boulevard, Americana Boulevard west to Texas Avenue, north on Texas Avenue to Holden Avenue, and then east on Holden Avenue through the study area.

<u>Link 304 – Rio Grande Avenue/Vistana Resort</u>

This bus route travels within the study area along S. Rio Grande Avenue from Oak Ridge Road to Americana Boulevard, west on Americana Boulevard to San Antonio Avenue, north on San Antonio Avenue to Honour Road, east on Honour Road to S. Rio Grande Avenue, and then north on S. Rio Grande Avenue through the study area.

There are currently 56 existing LYNX bus stops within the study area. Daily ridership data as of June 2014 was provided by LYNX for these bus stops. **Appendix B** provides a summary of the average daily ridership for each stop, the rank for stop use out of approximately 4,400 LYNX bus stops region-wide, and the amenities currently existing at each stop.



Texas - Americana Road Safety Small Area Study

Transit Routes



Figure 5
Existing Transit Service



F. Speed Studies

Speed studies were conducted on all study area roadways to determine the 85th percentile and the 50th percentile speed. The results of the speed studies are found in **Table 2** below.

Table 2
Texas-Americana Road Safety Small Area Study
Speed Studies

Roadway	Location	Posted Speed	Study Date	50%-ile Speed	85%-ile Speed
Americana	between John Young Parkway and		2/18-		
Boulevard	Texas Avenue	35	20/14	37.90	44.57
Americana			2/18-		
Boulevard	east of Rio Grande Avenue	35	20/14	38.55	44.65
Texas			2/18-		
Avenue	north of Holden Avenue	35	20/14	31.75	37.30
Texas			2/18-		
Avenue	south of Americana Boulevard	35	20/14	29.02	36.00
Rio Grande			2/18-		
Avenue	north of Holden Avenue	35	20/14	32.13	38.43
Rio Grande			2/18-		
Avenue	north of Oak Ridge Road	30	20/14	29.95	34.58
Holden	between Texas Avenue and Rio		2/18-		
Avenue	Grande Avenue	35	20/14	38.57	43.98
	between Texas Avenue and Rio		2/18-		
Honour Road	Grande Avenue	30	20/14	29.20	34.97

Some speeding was found to occur on all study area roadways, with the worst speeding found to occur on Americana Boulevard and Holden Avenue.

G. Crash Data

Although the road safety audit process is intended to be proactive in its approach by anticipating safety hazards and implementing improvements prior to crashes occurring, the analysis of crash data is equally important in order to address existing safety problems.

One reason for selecting this study area for the audit was related to crash statistics within the study area compared to county-wide statistics. Table 2 summarizes this

information. The percentage of both pedestrian crashes and bicycle crashes within the study area are more than double the county-wide percentage. Distraction-related crashes are also higher within the study area than within the county as a whole. All other metrics compared closely.

Table 3

Texas-Americana Road Safety Small Area Study

Comparison of Study Area Crash Statistics to County-wide Crash Statistics

Metric	County-wide 2013	Study Area 2011-2013	Study Area 2013
Night-time crashes	33.51%	34.50%	32.71%
Pedestrian crashes	1.45%	3.16%	3.33%
Bicycle crashes	1.05%	1.89%	2.19%
Injury crashes	27.38%	27.19%	25.63%
Fatality crashes	0.33%	0.34%	0.10%
Alcohol-related crashes	2.26%	2.51%	2.08%
Drug-related crashes	0.51%	0.48%	0.42%
Distraction-related crashes	24.55%	32.85%	33.23%

Source: Signal4 Analytics

The Orange County Multimodal Corridor Plan Technical Memorandum 1 prepared by Luke Transportation Engineering Consultants evaluated crash data for years 2009-2011. The following study area roads ranked in the top fifteen of county roadways for crashes of all types:

8th – Holden Avenue from Texas Avenue to Orange Blossom Trail

12th – Honour Road from Texas Avenue to Rio Grande Avenue

15th – Americana Boulevard from John Young Parkway to Orange Blossom Trail

The following study area intersections ranked in the top fifteen of county intersections for crashes of all types:

11th – S. Texas Avenue at W. Oak Ridge Road

13th – S. John Young Parkway at Americana Boulevard

In addition, two locations within the study area ranked within the top ten off-system, non-intersection pedestrian crash locations within the nine counties of Florida Department of Transportation, District 5. These are: Americana Boulevard near Texas Avenue, and Oak Ridge Road near Texas Avenue.

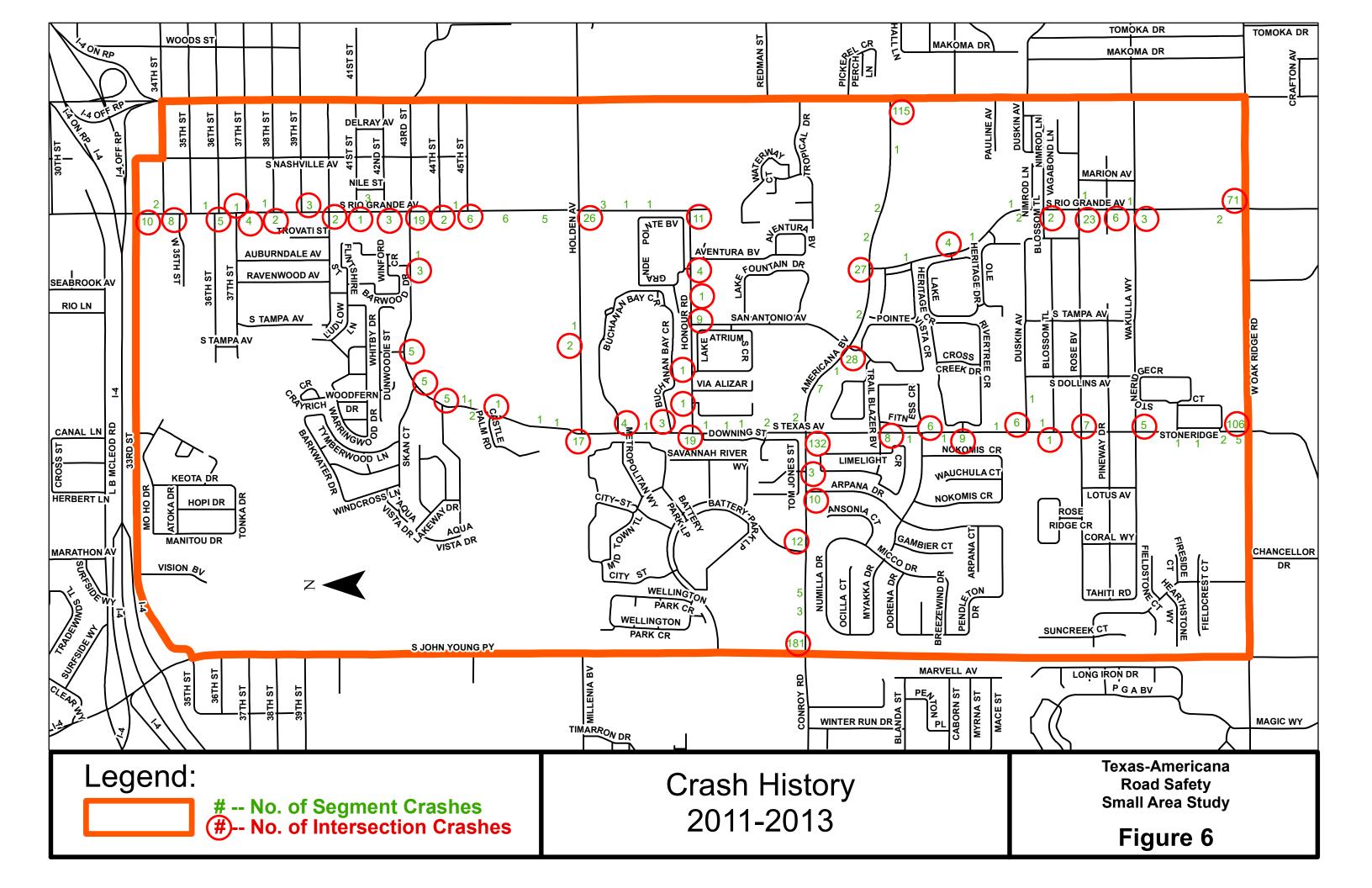
Crash data for three years from 2011 to 2013 was collected and analyzed in order to identify patterns in crashes and areas for improvement. Crash data was separated into roadway segment crashes and intersection crashes. An intersection crash was defined to be a crash occurring within 300 feet of the intersection, as stated in the crash report. All other crashes were classified as roadway segment crashes.

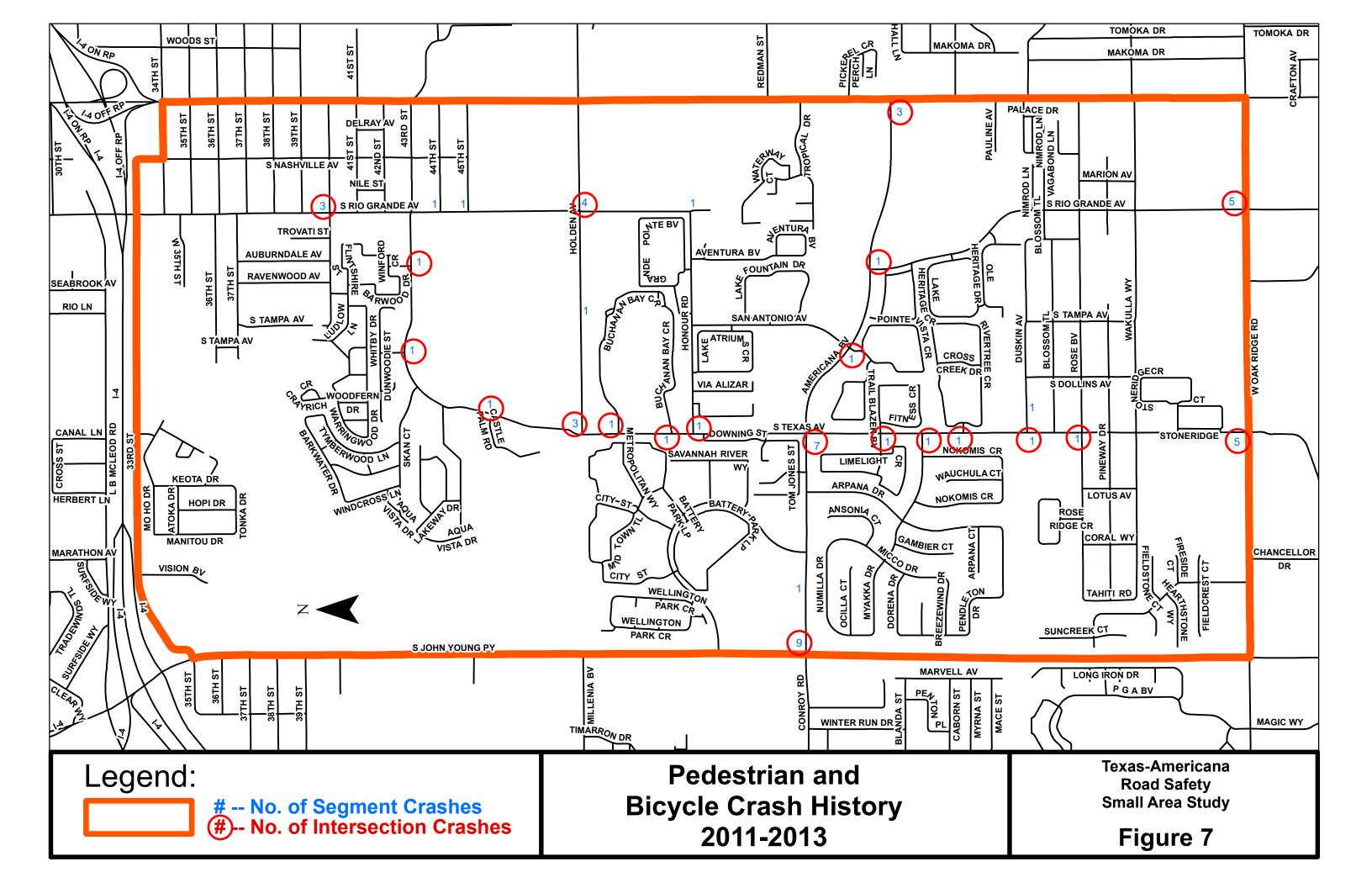
Figure 6 depicts the number of segment crashes and intersection crashes on study area roadways for years 2011 through 2013. An in-depth analysis of all study intersections was conducted, consisting of a crash summary table and a conflict diagram. The summaries and conflict diagrams are included in Section VII under the appropriate roadway. **Figure 7** depicts the number of pedestrian and bicycle crashes on study area roadways for the same three years.

Intersection approach counts were taken for all study area intersections so that intersection crash rates could be calculated. Crash rates take into account not only the frequency of crashes at an intersection, but also the volume of traffic entering the intersection, and are defined as the average number of crashes per million entering vehicles. **Table 4** below summarizes the average crash rate for years 2011-2013. Highlighted crash rates were especially high.

Table 4
Texas-Americana Road Safety Small Area Study
Study Intersection Crash Rates

	#	#	Entering	Crash
Intersection	crashes	years	AADT	Rate
Americana Blvd and Texas Ave	132	3	37733	3.194762
Americana Blvd and Rio Grande Ave	27	3	20,184	1.221638
Americana Blvd and John Young Pkwy	150	3	78,833	1.737677
Americana Blvd and Orange Blossom Tr	116	3	61,298	1.728214
Americana Blvd and San Antonio Ave	28	3	19,459	1.314085
Texas Ave and Oak Ridge Rd	107	3	40,529	2.411036
Texas Ave and Holden Ave	17	3	10,670	1.455025
Texas Ave and Honour Rd	19	3	25,099	0.691326
Texas Ave and Rio Grande Ave	19	3	18,181	0.954381
Rio Grande Ave and Rose Blvd	23	3	9,658	2.174836
Rio Grande Ave and Holden Ave	26	3	19,086	1.244069
Rio Grande Ave and Oak Ridge Rd	71	3	38,332	1.691542





H. Red Light Running Camera Enforcement

In 2011 Orange County began its Photo Enforced Red Light Running Program with the installation of ten enforcement cameras. One of the ten locations selected for initial installation was the eastbound approach of the intersection of Oak Ridge Road and Texas Avenue. In 2014 Orange County expanded the program installing forty additional cameras. As part of this expansion, cameras were installed at the intersection of Americana Boulevard and Texas Avenue for both the eastbound and westbound approaches. A camera was also installed for the northbound approach of the intersection of Orange Blossom Trail at Americana Boulevard. These intersections were selected because of the high crash rates at these intersections and high incidence of left turn and right angle crashes, which tend to be high severity crashes.

In monitoring the number of violations at these intersections in comparison to other intersections that are photo enforced, the intersection of Americana Boulevard and Texas Avenue is consistently ranked as one of the top locations for red light running infractions.

I. Field Reviews

A multi-disciplinary audit team conducted field reviews which began July 29th and continued weekly through September 23rd. Each study area roadway was driven both directions to identify issues from the perspective of a driver. Each study area roadway was also walked both directions to identify issues from the perspective of a pedestrian. Preparation for the field work included the development of forms and field notation sheets, a prompt list, and gathering of equipment. Team members were also trained in how to capture GPS coordinates when taking a picture with their County-issued cell phone camera.

A field prompt list was developed for reference in the field to ensure that important aspects were not overlooked. This field prompt list is included as **Figure 8.** An intersection field inspection form, **Figure 9**, was also used in auditing signalized intersections. This form is from the *Field Guide for Inspecting Signalized Intersections to Reduce Red Light Running*, published by ITE. **Appendix C** includes the ADA criteria and corresponding references used during the field reviews.

Figure 8 Field Review Prompt List

I. PAV Pavement - Roads and Drainage

- a. Poor surface condition R&D
- b. Poor shoulder condition R&D
- c. Pavement edge deterioration/drop offs R&D
- d. Evidence of ponding and/or flooding R&D
- e. Need for pavement widening along curve TE

II. VIS Visibility - Traffic Engineering

- a. Vegetation obstructing traffic control devices
- b. Vegetation obstructing sight distance
- c. Obstructions to the sight distance triangle
- d. Inadequate stopping sight distance
- e. Passing may need to be restricted
- f. Hidden driveway

III. SGN Signing - Traffic Engineering

- a. Poor sign face legibility
- b. Poor sign face retroflectivity
- c. Poor condition of sign supports
- d. Sign clutter
- e. Need for advance warning signs
- f. Need for advisory speed plate
- g. Need for object markers/delineators
- h. Need for chevrons
- i. Need for guide signing
- j. Need for regulatory signing
- k. Not appropriate height, offset, or distance

IV. PMS Pavement Markings - Traffic Engineering

- a. Need to be refreshed
- b. Need edge line
- c. Need RPM's
- d. Need intersection markings
- e. Need rumble strips
- f. Not visible at night
- g. Old pavement markings still visible

V. INT Intersections - Traffic Engineering

- a. Maneuvers/lane use not obvious
- b. Insufficient length of auxiliary/turn lanes

VI. PDS Posted Speed - Traffic Engineering

- a. Speed limit appropriate?
- b. Advisory speed needed on curve
- c. Traffic observed to be speeding
- d. Improper transition between speed limits

VII. PED Pedestrians & Bicyclists – Traffic/Transp. Plan.

- a. High usage/need for facilities TE/TP
- b. Inadequate facilities TE/TP
- c. Need signing for facilities TE
- d. Need pavement markings for facilities TE
- e. Need maintenance of facilities R&D

VIII. BCZ Barriers and Clear Zone -Highway Const./TE

- a. Need for guardrail
- b. Poor condition of guardrail R&D
- c. Need for delineation of guardrail or barrier
- d. Presence of fixed object within clear zone
- e. sign within clear zone not break-away
- f. barrier needs proper end treatment

IX. CRM Crime Prevention -

Neighborhood Preservation, OCSO

- a. Trees and shrubs trimmed back from walkways
- b. Need for litter control
- c. Need for lighting for dark areas, bus stops

X. ADA Compliance -

Development Eng./Highway Const./Traffic

- a. Sidewalk and pathway clear width
- b. Sidewalk and pathway cross slope
- c. Landings along sidewalk and pathway grade
- d. materials, finishes, gratings
- e. detectable warnings
- f. obstructions
- g. curb ramps and curb ramp flares
- h. traffic signal systems TE
- i. transit boarding and alighting areas

INTERSECTION FIELD INSPECTION FORM

LOCATION	NINFORMATION
Intersection Identification:	with
Approach Name:	Direction Heading:
PART 1. CHECK	K SIGNAL VISIBILITY
Type of Signal Mounting: Span Wire Mast Arm Pole	Structure Sight Distance to the Signal:feet
Requires Advance Warning Sign? Y N	Advance Signal Warning Sign Present: Y N
Is anything blocking the view of the signals? Y N If yes, de	escribe
Can signal faces on other approaches be seen? Y N If yes, or	do these signals have visors, shields, or programmable lenses? Y N
PART 2. CHECK S	SIGNAL CONSPICUITY
Could visual clutter detract from the signal? Y N	Signal Lens Size Adequate?:
Are the signal indications confusing? Y N	Red signal lens size: 8 inch 12 inch
If yes, explain:	Distance from stop line to signal:feet
	Near side signal? Y N
Are backplates present? Y N	Is existing size adequate? Y
	Number of Signal Heads Adequate?
Are backplates necessary? Y N	Total number of signal heads for major movement:
Are other glare-reducing steps needed? Y N	Total number of lanes for major movement:
Signal lens type: Incandescent LEDs	Is existing number adequate? Y N
	Signal Heads Placement Adequate? Y N
PART 3. CHECK SIGNA	AL CONTROL PARAMETERS
Grade (as decimal) g =(uphill is positive)	Calculate the needed change period <i>(CP)</i> for this approach using agency practice or the following equation:
Approach speed $V = \underline{\hspace{1cm}} mph$	
Cross street width $W = $ feet	Yellow All-red $CP = 1.0 + \frac{1.47 * V}{(20 + 64.4g)} + \frac{W + 20}{1.47 * V}$
Actual Value	Calculated Value
Yellow Interval	Calculated Value Is Existing Adequate:
All Red Interval	Y N
	CK OTHER FACTORS
	n on approach: Adequate Polished Severely Rutted
Should signal warranting study be conducted? Y N Other co	oncerns:
PART 5. IDENTIFY PROI	MISING COUNTERMEASURES
Visibility Deficiency Conspicuit	ty Deficiency Signal Timing Operation Deficiency
	achieve one per lane Change yellow interval
Change signal mounting Replace with I Install SIGNAL AHEAD sign Replace with I	12" signal head
Install Advance Warning Flashers Install double	red signal
Remove/relocate sight obstruction Install/enhance Install rumble	e backplates Determine if signal is warranted strips on approach Consider roundabout or innovative design
Install programmable tenses Install rumble Install shields and visors Install near sid	
Other_	
Inspection By:	Date:

V. Public Involvement and Outreach

A. Education

After reviewing crash data, the audit team noted the frequency of bicycle and pedestrian crashes within the study area and observed equally unsafe behavior on the part of both drivers and pedestrians. It was decided that safety education needed to be a component of the project.

Traffic Engineering Division staff attended bicycle helmet promotion training and became certified bike helmet fitters in July. This qualified them to participate in the Florida Bicycle Helmet Distribution Program and receive an FDOT grant for bike helmets from Florida's Pedestrian and Bicycling Safety Resource Center. Once certified, they approached Palmetto Elementary School and offered to participate in the school's Meet Your Teacher Day on August 14th, providing the perfect opportunity to promote bicycle and pedestrian safety to both children and their parents. Representatives from Orlando Health and Best Foot Forward also participated in the event.

During the event team members passed out the following informational flyers to adults:

- FDOT's Alert Today Alive Tomorrow campaign for bike and pedestrian safety in English, Spanish, and Creole
- Best Foot Forward Yield to Pedestrian informational brochures
- Orange County Red Light Running information, and
- Informational flyers on how to teach your child to safely walk to school

For the children, team members passed out the following bike and pedestrian safety-related freebies:

- Coloring books
- Bookmarks
- Stickers
- Tattoos
- reflective armbands and zipper-pulls

In addition, approximately 100 bike helmets were properly fitted and distributed to the children to start their school year safely.

B. Community Meeting

A community meeting notice, presented as **Figure 10**, was mailed to the owners of all parcels within the study area boundaries as well as neighborhood associations, community organizations, and stakeholders. Extra meeting notices were distributed to apartment complexes for their bulletin boards and posted at bus shelters.

The community meeting was conducted on December 4th at Palmetto Elementary School. The primary purpose was for the Traffic Engineering Division to present the

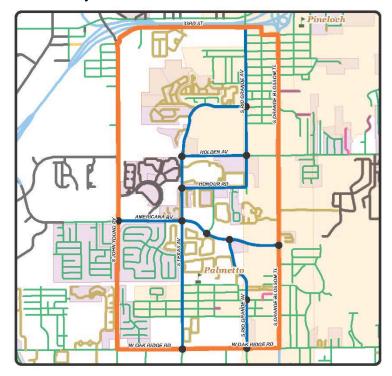
COMMUNITY MEETING



Texas-Americana Road Safety Small Area Study

December 4, 2014 from 6:30pm-8:00pm Palmetto Elementary School cafeteria 2015 Duskin Avenue, Orlando, Florida 32839

Orange County is conducting a road safety small area study of Orange County roads bounded by John Young Parkway, Orange Blossom Trail, Oak Ridge Road, and 33rd Street. Please join your County Commissioner-Elect Victoria Siplin, Orange County staff, and your neighbors at a community meeting to discuss traffic safety issues and possible solutions within the study area.



Representatives from the Orange County Traffic Engineering Division, the Orange County Neighborhood Preservation and Revitalization Division, and Florida Highway Patrol will give presentations. The purpose of the meeting will be to present the focus of the traffic safety study, the roads and intersections being studied, and the project status. Traffic safety laws and tips to keep your family safe will also be shared, as well as programs and opportunities available to residents. The evening will conclude with an opportunity to submit comments regarding traffic safety issues within the study area.

If you have questions regarding this community meeting, please call Christine Lofye, P.E. of the Orange County Traffic Engineering Division at (407) 836-8682 or via e-mail at Christine.Lofye@ocfl.net.

This project is located in District # 6 Commissioner-Elect Victoria Siplin focus of the study, present the roads and intersections being studied and the status of the project. Secondary purposes were to have another opportunity to present traffic safety education and also to notify the citizens of programs available to them through Neighborhood Preservation and Revitalization Division.

Sgt. Kim Montes, Public Information Officer for the Florida Highway Patrol, gave a presentation on traffic safety laws and tips. She addressed issues of right-of-way laws, the importance of pedestrians crossing roadways at marked crosswalks, the importance of yielding to pedestrians, distracted driving and walking, red light running, and safety within school zones.

Information on community clean-ups and information on the new St.art Something program for community art on traffic signal controller boxes was also presented. The meeting concluded with an opportunity for citizens to complete comment forms on traffic safety concerns within the study area. A Creole translator was present to assist residents if needed and Best Foot Forward had a table with safety informational material on-hand to distribute.

The sign-in sheets for the meeting are included in the **Appendix D**. Citizen concerns collected from the community meeting comment forms are listed in **Table 5**. Several citizens volunteered to serve on a community clean-up committee for a Spring clean-up.

C. Agency Outreach

Meetings were held with the agencies that have a vested interested in the study area. These meetings were held to inform agencies of the project and its purpose and scope and to receive feedback on safety concerns. Meetings were held with Mr. Randall Grief of the OBT Development Board, Mr. Jeff Reine of LYNX, and Mr. Shaun Kelly, assistant principal at Palmetto Elementary School. Concerns were noted and evaluated as part of the study.

Table 5
Texas-Americana Road Safety Small Area Study
Citizen Concerns

Main Street	Cross Street	Citizen	Concern	Jurisdiction	Response
			Inability to exit parking lot, making left turn,	Orange Co. study	During congested periods, drivers should make
Americana Boulevard	Publix driveway	Eddie Whitted, Sr.	accidents	road	a right turn and u-turn downstream
			unable to depart subdivision due to cars	Orange Co. study	A request was made for enforcement of the
Americana Boulevard	Arpana Drive	Eddie Whitted, Sr.	blocking intersection, accidents	road	"do not block intersection".
			cannot make left turn during rush hour,		This is a standard 22' median. Drivers must
			accidents, not enough space in median for	Orange Co. study	angle their car in the median so they do not
Americana Boulevard	Arpana Drive	no name given	making left turn	road	extend into the travel lane.
				Orange Co. study	Traffic counts collected. Traffic volumes do not
Rio Grande Avenue	Rose Boulevard	Irene A. Taylor	need a traffic light at this intersection	road	warrant a signal.
				Orange Co. study	Traffic counts collected. Traffic volumes do not
Texas Avenue	Rose Boulevard	Irene A. Taylor	need a traffic light at this intersection	road	warrant a signal.
			not a proper line so busses can turn onto	Orange Co. study	
Americana Boulevard	Texas Avenue	Joanne Tobiasen	Texas; can cause accidents	road	Staff will review during signal re-design.
	Huntington on the Green		There used to be a left turn lane into the	Orange Co. study	Drivers may cross the double yellow line to
Texas Avenue	driveway	Joanne Tobiasen	complex, but it was removed	road	enter the driveway.
					Signal warrant study conducted and found not
					to be warranted at Oak Hill Manor Drive.
					Signal warrant study conducted at Oak Ridge
					Rd and Chancellor Drive found to be
					warranted. Signal will be installed which would
					provide gaps due to close proximity. Will
			Can't get in and out of neighborhood.		request enforcement of "do not block
Oak Ridge Road	Oak Hill Manor Drive	Deby Smith	Request signal warrant study	Orange Co.	intersection" signs.
					This driveway is too close to the signal at John
					Young Parkway, but a signal warrant study was
					conducted at Chancellor Drive and was found
	Mid-Florida Tech				to be warranted. Chancellor Drive connects to
Oak Ridge Road	entrance	Richardson	Request traffic light	Orange Co.	Mid Florida Tech.
					Orange County Parks and Recreation has
					reviewed the area and there is no park land for
					sale of which funding is available. Cypress
Within study area	Within study area	no name given	Requests parks or other green space	Orange Co.	Grove Park serves this area.
					County plans to construct sidewalk connection
			Stop sign set too far back from Americana		closer to Americana Bv so that the stop sign
Americana Boulevard	Arpana Drive	Carlos Gonzalez	for residents of Southpointe Subdivision	Orange Co.	can be moved closer.
			People are covering the vehicle tags so they		
Within study area	Within study area	Carlos Gonzalez	don't have to pay tolls	E-PASS	Referred him to E-PASS
					The County lighting program has been
					reinstated, but we are starting with 4 and 6
	between Holden and Rio		Requests roadway lighting; it is very dark,	Orange Co. study	lane roadways first, then moving to 2 lane
Texas Avenue	Grande	Susan Hampton	lots of bicyclists, and high crime	road	roadways.

VI. LYNX Bus Stop Review

Within the study area there are currently fifty-six (56) LYNX bus stops. Ridership data was requested from LYNX and analyzed to determine the location of bus stops, the most heavily used bus stops, and bus routes. Existing bus stop amenities were collected through field reviews and by using Google Maps and then reviewed against the ridership data provided to determine the need for amenities and/or repairs to existing amenities.

FDOT's Accessing Transit Design Handbook for Florida Bus Passenger Facilities states that 50 to 100 minimum boardings per day are suggested for considering a bus shelter. Using this guideline, four shelters were requested and approved by LYNX (Table 6).

Table 6
Texas-Americana Road Safety Small Area Study
Requested Bus Stop Shelters

Road	Location	Location Time Point		Route	Stop
					ID
Americana	West of San Antonio	2000 Americana Blvd and	EB	8, 40	2807
Blvd	Ave	San Antonio Ave			
Americana	Between San Antonio	1900 Americana Blvd	WB	8, 304	2281
Blvd	and Rio Grande				
S. Rio	North of Oak Ridge Rd	5800 Rio Grande Ave and	NB	8, 304	2834
Grande Ave		Oak Ridge Rd			
S. Rio	Front of Esplanade	5400 Rio Grande Ave	SB	8, 304	2809
Grande Ave	Apartments				*

^{*}Bus stop location may have to be shifted slightly north for shelter right-of-way needs.



In addition, bus stop shelters were reviewed to identify the need for shelter lighting. Orange County's "Public Right-of-Way Transit Facilities Ordinance", Ord. 2014-06, requires that a transit shelter be lit and illuminated from dusk to dawn. Lighting or repairs to lighting were requested of LYNX for the locations listed in **Table 7**.

LYNX provides trash receptacles at all bus

shelters, but the field review revealed many bus stops with just a bus stop sign where no trash receptacle is provided. The field reviews also noted heavy litter throughout the study area, so it was requested that LYNX provide trash receptacles at bus stops with no

bench and currently no trash receptacle. LYNX has agreed to provide the trash receptacles at the seven bus stops requested.

Table 7
Texas-Americana Road Safety Small Area Study
Requested Bus Stop Shelter Lighting

Road	Location	Time Point	Dir.	Route	Stop
					ID
Americana	East of Texas Ave	2100 Americana Blvd and	EB	8, 40	2311
Blvd		Texas Ave			
Americana	East of Texas Ave	2100 Americana Blvd and	WB	8, 40	2260
Blvd		Texas Ave			
Americana	Between San Antonio	1900 Americana Blvd and	EB	8, 304	2808
Blvd	and Rio Grande	Rio Grande Ave			
S. Rio	South of Royal Grande	5301 Rio Grande Ave and	NB	8, 304	2880
Grande Ave	of Orlando Apts	Americana Blvd			

In addition to requests for new amenities, repair was requested for the bus shelter roof for Bus Stop ID 2880 located on Rio Grande Avenue south of Lake Heritage Circle northbound.

FDOT's Accessing Transit Design Handbook for Florida Bus Passenger Facilities states that "lighting is the most critical factor in the Crime Prevention Through Environmental Design (CPTED) program", and that local transit stops without a shelter should be located within 30 feet of an overhead light source. The study area is lacking in the area of lighting at bus stops. Orange County's reinstated highway lighting program is beginning with its four and six-lane roadways. Americana Boulevard is one of the first roadways in this program. It is recommended that as the County's highway lighting program proceeds and works toward installation of lighting on its two-lane roadways, that priority be given to roadways such as Rio Grande Avenue north of Oak Ridge Road where the combination of heavy transit ridership and high crime make highway lighting important.

Pedestrian and bicycle crash data was also compared with bus stop locations to determine whether there was a correlation. No pattern of crashes was found to be related to the locations of bus stops. Even so, bus stop locations were reviewed with respect to the possibility of increasing safety. It was requested, and LYNX has agreed, to review the potential for bus stop relocation for Bus Stop ID's 2808 and 2281, both located on Americana Boulevard between San Antonio Boulevard and Rio Grande Avenue. It was requested to possibly move these bus stops to the intersections to reduce the number of mid-block crossing of pedestrians between these two stops and encourage pedestrians to cross the street at signalized intersections with pedestrian signals.

VII. Findings and Recommended Countermeasures

This section includes a description of existing conditions for each study area roadway, and a summary of findings from the crash history and analyses. A spreadsheet was developed for each study area roadway which tabulates issues the audit team found while in the field. The description of the problem as well as the proposed solution is included.

Issues listed in the spreadsheet are rated by safety priority. The following describes the meaning of these ratings:

High-Priority Safety Improvement – Items where immediate safety improvements should be made

Medium- and Low-Priority Safety Improvement – Items where low-cost improvements could have a positive impact on safety and should be considered in a reasonable period of time

Following the sections for each roadway, capital improvements are listed for the long term. These are defined below:

Capital Improvements – Items that should be considered as funds become available for major reconstruction of the roadway or intersection.

A. Americana Boulevard

Existing Conditions

Americana Boulevard is a four-lane divided roadway running east-west from John Young Parkway to Orange Blossom Trail (US 441). The cross section is rural between John Young Parkway and Texas Avenue and urban between Texas Avenue and Orange Blossom Trail. It serves residential uses, mainly apartment complexes, and commercial land uses. The speed limit is 35 mph throughout.

A sidewalk runs the entire length of the road on both sides of the road until just west of Orange Blossom Trail. These sidewalk gaps were recently constructed as part of this project. No bike lanes are provided.

Overhead utilities are provided on both sides of the road between John Young Parkway and Texas Avenue. Roadway lighting currently exists mainly in the median between Texas Avenue and Orange Blossom Trail.

Crash History and Analysis

Crash summaries and crash diagrams were prepared and follow for the key study intersections along Americana Boulevard. These are the intersections of Americana Boulevard with John Young Parkway, Texas Avenue, San Antonio Avenue, Rio Grande Avenue, and Orange Blossom Trail (US 441), all signalized. Because of the high number of crashes at the intersections of John Young Parkway, Texas Avenue, and Orange Blossom Trail, crash summaries and crash diagrams depict crashes for only one year of data (2013). For the intersections of Americana Boulevard with both San Antonio Avenue and Rio Grande Avenue, crashes for three years are included (2011-2013).

Of particular note and as previously shown in Table 3, the intersection of Americana Boulevard with Texas Avenue has a very high crash rate at 3.194762 crashes per million entering vehicles. This intersection also ranks as the highest for red light running infractions out of all the unincorporated Orange County red light camera locations.

Recommended Countermeasures

The following tables list the recommended improvements for Americana Boulevard. The first table lists the general recommendations and the second table lists sidewalk and ADA-related issues.

An item believed to be a high priority is related to the amount of pedestrians crossing Americana Boulevard at uncontrolled mid-block locations between Texas Avenue and San Antonio Avenue. It is recommended that two mid-block crosswalks with rectangular rapid flashing beacons (RRFBs) be installed and that pedestrian channelization barrier be considered for installation in the median. A crosswalk and signalized pedestrian crossing for the west leg of the San Antonio Avenue intersection is

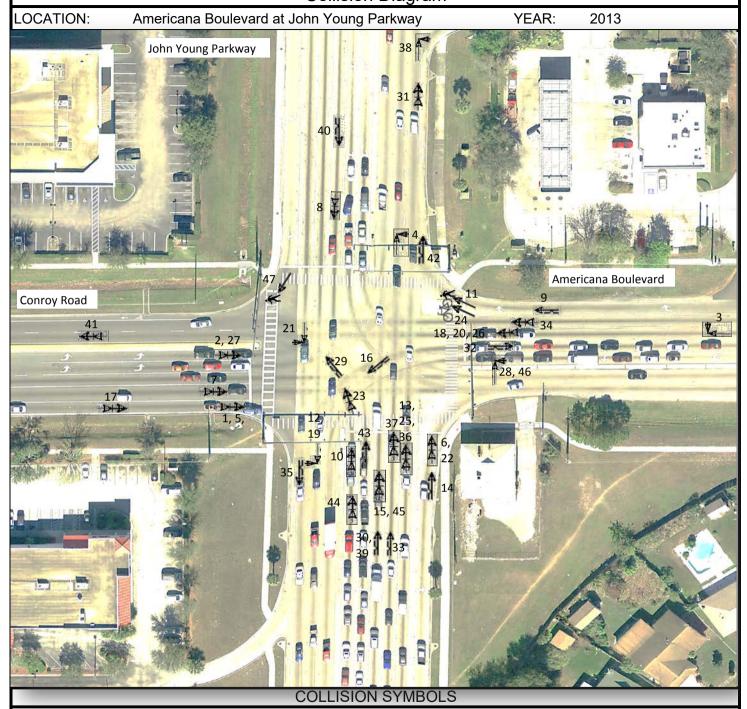
also recommended to provide an additional safe pedestrian crossing location. See depiction of recommended improvements, page 83.

At the intersection of Americana Boulevard and Texas Avenue it is recommended that the signal be reconstructed due to its age and a leaning signal pole in the northwest corner. In order to address the high crash rate and red light running at the intersection, with the reconstruction of this intersection signal head backplates will be installed to increase the visibility of signal head indications in the eastbound and westbound directions. Sidewalk curb ramps and pedestrian pushbuttons and signing will be upgraded to meet current ADA requirements.

In addition, four-section signal heads will be considered for the left turn lanes instead of the current five-section cluster signal heads. These signal heads have been shown to increase safety by improving yielding to oncoming vehicles for vehicles turning left permissively. These signal heads also allow flexibility in timing protected and/or permitted left turns by time of day. Protected-only signal phasing increases congestion, but has been shown to reduce left turn crashes and left turn pedestrian crashes.

						Cr	ash Summ	ary			
Locatio	n:	AMERICA	NA BOULE\	/ARD			Intersection	n Control:	Signalized		
Interse	cting Route:	JOHN YO	UNG PARKV	VAY			Prepared b	y: CNL			
Study P	Period From:	2013					County:	Orange			
							PROPERTY				
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	1/19/2013	Sat			No	No	\$663	Clear	Daylight	Careless Driving	FHPD13OFF005275
2	2/23/2013	Sat		Rear End	No	No	\$1,100	Clear	Dark - Lighted	Following Too Close	2013-00080301
3	3/5/2013	Tue		Right Turn	No	Yes	\$3,000	Clear	Dark - Lighted	Ran Stop Sign	FHPD13OFF018205
4	3/18/2013	Mon	11:08 AM		No	No	\$6,000	Clear	Daylight	Failure to Obey Signal	FHPD13OFF022205
5	3/19/2013	Tue		Rear End	No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD13OFF022512
6	3/26/2013	Tue		Rear End	No	No	\$2,500	Clear	Dusk	Careless Driving	FHPD130FF024817
7	4/1/2013	Mon		Rear End	No	No	\$1,900	Clear	Daylight	Careless Driving	FHPD130FF026538
8	4/8/2013	Mon		Rear End	No	No	\$3,951	Clear	Dark - Lighted	Careless Driving	FHPD130FF028915
9	4/18/2013	Thu		Sideswipe	No	No	\$6,000	Clear	Daylight	Improper Lane Change	FHPD130FF031786
10	4/18/2013	Thu	10:00 PM		No	No	\$1,750	Clear	Dark - Lighted	Unknown	FHPD130FF031992
11	4/21/2013	Sun		Pedestrian	No	Yes	\$0	Cloudy	Dark - Lighted	FTY R/W	FHPD13OFF032817
12	4/30/2013	Tue		Right Turn	No	No	\$4,000	Clear	Daylight	FTY R/W DUI & Careless Driving	FHPD13OFF035452
13	5/4/2013	Sat		Rear End	No	No	\$2,000	Rain	Dark - Lighted		FHPD13OFF036634
14	5/13/2013	Mon	12:45 PM		No	No	\$1,600	Clear	Daylight	Careless Driving	FHPD130FF039387
15	5/15/2013	Wed		Rear End	No	Yes	\$1,500	Clear	Dark Lighted	DUI Unknown	FHPD130FF040126
16 17	5/22/2013	Wed		Sideswipe	No	No	\$200	Clear	Dark - Lighted		FHPD130FF042256
	5/28/2013	Tue		Rear End	No	No	\$2,000	Clear	Daylight	Unknown	2013-00218795
18	5/31/2013	Fri	9:09 PM 12:13 PM		No	No	\$1,100	Clear	Dark - Not Lighted	Careless Driving	FHPD13OFF045099
19	6/1/2013	Sat		Rear End	No	No	\$3,500	Clear	Daylight	Careless Driving	FHPD130FF045248
20	6/3/2013	Mon			No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD13OFF046022
21	6/4/2013	Tue	12:00 PM		No	No	\$10,000	Clear	Daylight	Failure to Obey Signal	FHPD130FF046227
22	6/27/2013 6/28/2013	Thu Fri		Rear End Rear End	No No	Yes	\$1,000 \$600	Clear Rain	Daylight	Unknown	FHPD130FF053744
23	7/29/2013		12:30 PM		No	No	\$600	Clear	Daylight	Careless Driving Unknown	FHPD13OFF054119
25	7/29/2013	Mon		Rear End	No	Yes	\$400	Clear	Daylight		FHPD130FF064080
26	8/5/2013	Wed		Rear End Rear End		No	\$400		Daylight	Careless Driving	FHPD13OFF064609
26	8/5/2013	Mon Wed		Rear End	No No	Yes No	\$2,000	Clear Clear	Daylight Dark - Lighted	Careless Driving Careless Driving	FHPD13OFF066262 FHPD13OFF071736
28	8/23/2013	Fri	7:55 PM		No	No	\$1,000	Clear	Dark - Lighted	Unknown	FHPD130FF072343
29	8/26/2013	Mon		Sideswipe	No	No	\$4,000	Clear	Daylight	Unknown	FHPD130FF072343 FHPD130FF073001
30	8/26/2013	Mon		Sideswipe	No	No	\$1,600	Cloudy		Careless Driving	FHPD130FF073001
31	8/28/2013	Wed	12:30 PM		No	Yes	\$7,500	Clear	Daylight Daylight	Careless Driving	FHPD130FF073745
32	9/8/2013	Sun		Sideswipe	No	No	\$1,100	Clear	Daylight	Improper Lane Change	FHPD13OFF077282
33	9/10/2013	Tue		Sideswipe	No	No	\$2,600	Clear	Daylight	Unknown	FHPD130FF077856
34	9/10/2013	Thu		Rear End	No	No	\$2,400	Clear	Daylight	Careless Driving	FHPD130FF0778534
35	9/17/2013	Tue		Sideswipe	No	No	\$3,000	Clear	Daylight Dark - Lighted	FT Drive in One Lane	FHPD13OFF080127
36	9/17/2013	Sun		Rear End	No	No	\$3,300	Cloudy	Daylight	Careless Driving	FHPD130FF080127 FHPD130FF081552
37	10/3/2013	Thu		Rear End	No	Yes	\$5,600	•	Daylight	Careless Driving	FHPD130FF081552
38	10/3/2013	Sun	7:16 PM		No	Yes		Cloudy	Daylight	FTY R/W	2013-00418534
39	10/6/2013	Fri		Sideswipe	No	No	\$6,000	Clear	Daylight	Improper Lane Change	FHPD13OFF087299
40	10/11/2013	Sat		Sideswipe	No	No	\$600	Clear	Daylight Dark - Lighted	Improper Lane Change	FHPD130FF087299 FHPD130FF087679
40	10/12/2013	Sat	12:34 PM		No	Yes	\$7,100	Clear	Dark - Lighted Daylight	Careless Driving	FHPD130FF087679 FHPD130FF089597
41	10/19/2013	Sun		Right Turn	No	No	\$2,900	Clear	Daylight	Failure to Obey Signal	FHPD130FF089397
43	11/11/2013	Mon		Sideswipe	No	No	\$2,900	Clear	Daylight	FT Drive in One Lane	FHPD13OFF092019
44	11/11/2013	Wed		Rear End	No	Yes	\$800	Clear	Daylight	Careless Driving	FHPD130FF096897
45	11/13/2013	Thu		Rear End	No	No	\$13,500	Rain	Daylight Dark - Lighted	Careless Driving	FHPD130FF090897
46	12/1/2013	Sun	5:30 PM		No	No	\$6,000	Cloudy	Dark - Lighted	Careless Driving	FHPD130FF102713
46	12/1/2013	Sat		Sideswipe	No	No	\$6,000	Clear	Dark - Lighted Daylight	Unknown	2013-00542817
4/	12/20/2013	Jal	TIVI CF.T	Sideswipe	110	INU	υç	Cicai	Sayiigiit	CHRIIOWII	2013 00342017
TOTAL											
TOTAL											IMPROPER LANE
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
TOTAL	47	0	11	36	ANGLE 4	1	3	24	11	nead on 0	
	%	0%	23%	77%	9%	2%	6%	51%	23%	0%	9%
	70	0/0	23/0	11/0	3/0	۷/۵	0/6	31/0	23%	0%	FAIL TO OBEY
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL
J.12 V	0	2	30		3	44	0	3	2	20	
	0%	4%	64%		6%	94%	0%		4%	43%	
<u> </u>	1 0/0	7/0	0-70	30/0	070	5470	0/0	J 070	1 7/0	+3/0	570

Orange County Traffic Engineering Division Collision Diagram





VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION

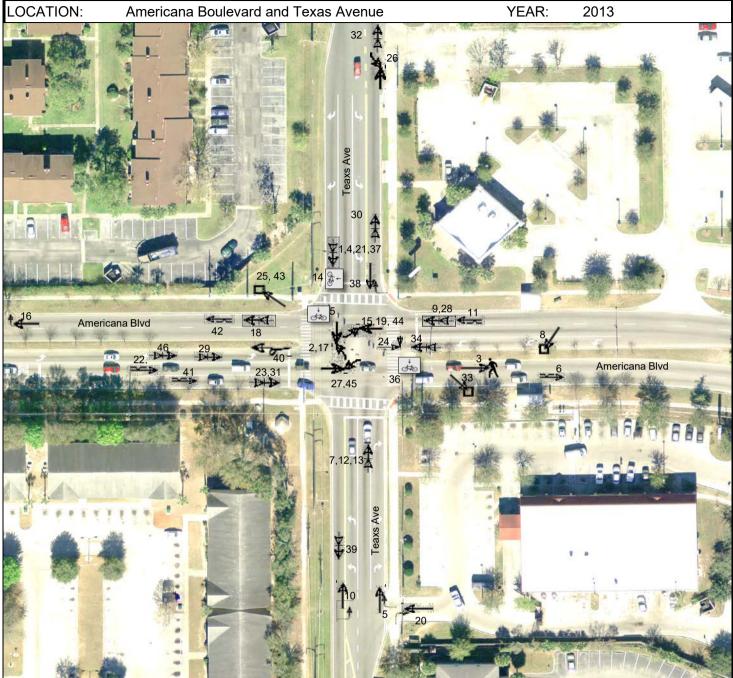


FIXED OBJECT
OUT OF CONTROL
SIDE SWIPE
PEDESTRIAN COLLISION
BICYCLIST COLLISION

* Numbers that appear multiple times indicate more than one collision in that incident.

	•										
CRASH SUMMARY											
	PROP. DMG ONLY	INJURY	FATAL	TOTAL							
DAYTIME	23	7	0	30							
NIGHTTIME	13	4	0	17							
TOTAL	36	11	0	47							

						С	rash Sumn	narv			
Location: AMERICANA BOULEVARD							Intersection Control: Signalized				
Intersecting Route: TEXAS AVENUE					Prepared by: CNL						
Study Period From: 2013				County: Orange							
							PROPERTY				
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	1/10/2013	Thu		Rear End	No	Yes	\$1,000	Clear	Daylight	Careless Driving	FHPD13OFF002735
2	1/22/2013	Tue		Left Turn	No	No	\$4,000	Clear	Dark - Lighted	FTY R/W	FHPD13OFF006066
3	1/30/2013	Wed		Pedestrian	No	Yes	\$0	Clear	Daylight	PedJay Walking	FHPD13OFF007952
4	1/30/2013	Wed		Rear End	No	No	\$5,000	Clear	Daylight	Careless Driving	FHPD13OFF007955
5	2/3/2013	Sun		Right Turn	No	No	\$7,000	Clear	Daylight	FTY R/W	FHPD13OFF009182
6	2/6/2013	Wed		Sideswipe	No	No	\$1,100	Clear	Daylight	Improper Lane Change	FHPD130FF010067
7	2/19/2013	Tue			No	No	\$0	Clear	Daylight	Careless Driving	FHPD130FF013787
8	3/5/2013 3/6/2013	Tue		Rear End	No	No No	\$2,000	Clear	Dark - Lighted	Careless Driving	FHPD130FF017964
10	3/8/2013	Wed Fri			No No	No	\$2,800 \$5,000	Clear Clear	Daylight Daylight	Careless Driving FTY R/W	FHPD13OFF018379 FHPD13OFF018899
11	3/8/2013			Sideswipe	No	No	\$12,000		, ,	•	
12	3/20/2013	Mon Wed		Rear End	No	No		Clear Clear	Daylight Daylight	Improper Lane Change Careless Driving	FHPD13OFF019858 FHPD13OFF022889
13	4/1/2013	Mon		Rear End	No	No		Clear	Daylight	Careless Driving	FHPD13OFF026585
14	4/2/2013	Tue	2:20 PM		No	No	\$884	Clear	Daylight	Careless Driving	FHPD13OFF026789
15	4/2/2013	Tue		Left Turn	No	Yes	\$18,000	Clear	Daylight	FTY R/W	FHPD13OFF026789
16	4/3/2013	Wed			No	Yes	\$18,000	Rain	Daylight Dark - Lighted	Careless Driving	FHPD13OFF027295
17	4/23/2013	Tue			No	No	\$1,000	Clear	Dark - Lighted	FTY R/W	FHPD13OFF033436
18	5/5/2013	Sun		Right Turn	No	No	\$1,000	Clear	Dawn	FTY R/W	FHPD13OFF037163
19	5/13/2013	Mon			No	No	\$1,300	Clear	Dark - Lighted	Fail to Obey Signal	FHPD13OFF039297
20	5/26/2013	Sun	10:29 PM		No	No	\$1,000	Clear	Dark - Lighted	Careless Driving	FHPD130FF043569
21	5/30/2013	Thu		Rear End	No	No	\$800	Clear	Dark - Lighted	Careless Driving	FHPD130FF044764
22	6/8/2013	Sat		Sideswipe	No	No	\$1,500	Rain	Daylight	Improper Lane Change	FHPD130FF047750
23	6/14/2013	Fri			No	No	\$6,900	Clear	Dark - Not Lighted	Careless Driving	FHPD130FF049705
24	6/17/2013	Mon			No	Yes		Cloudy	Dark - Lighted	Fail to Stop	FHPD130FF050620
25	7/12/2013	Fri		Off Road	No	No	\$1,509	Cloudy	Daylight	Careless Driving	FHPD130FF058673
26	7/27/2013	Sat		Left Turn	No	Yes	\$15,000	Clear	Dark - Lighted	FTY R/W	FHPD130FF063599
27	8/1/2013	Thu		Left Turn	No	Yes	\$14,000	Clear	Dark - Lighted	FTY R/W	FHPD130FF064879
28	8/13/2013	Tue	12:05 PM		No	No	\$5,000	Clear	Daylight	Careless Driving	FHPD13OFF068914
29	8/20/2013	Tue	4:13 PM	Rear End	No	Yes	\$6,000	Clear	Daylight	Careless Driving	FHPD13OFF071310
30	9/18/2013	Wed	4:55 PM	Rear End	No	No	\$2,500	Rain	Daylight	Careless Driving	FHPD13OFF080391
31	9/20/2013	Fri	11:12 AM	Rear End	No	No	\$800	Clear	Daylight	Careless Driving	FHPD13OFF080928
32	9/21/2013	Sat	2:48 PM	Rear End	No	Yes	\$6,000	Clear	Daylight	Careless Driving	FHPD13OFF081287
33	10/10/2013	Thu	7:40 AM	Off Road	No	No	\$2,200	Clear	Daylight	Careless Driving	FHPD13OFF086834
34	10/18/2013	Fri	6:35 PM	Rear End	No	No	\$1,500	Clear	Daylight	Careless Driving	FHPD13OFF089422
35	10/25/2013	Fri	7:00 PM		No	Yes	\$500	Clear	Dusk	FTY R/W	FHPD13OFF091477
36	10/25/2013	Fri	8:05 PM	Bicycle	No	Yes	\$2,500	Clear	Dark - Lighted	FTY R/W	FHPD13OFF091506
37	11/17/2013	Sun	4:05 PM	Rear End	No	No	\$1,800	Clear	Daylight	Careless Driving	FHPD13OFF098368
38	11/23/2013	Sat		_	No	Yes	\$500		Daylight	Careless Driving	FHPD130FF100346
39	11/29/2013	Fri			No	Yes	\$4,000		Daylight	Careless Driving	FHPD130FF102153
40	12/8/2013	Sun		Left Turn	No	Yes	\$8,000		Daylight	FTY R/W	FHPD13OFF104693
41	12/16/2013	Mon		Sideswipe	No	No	\$600		Daylight	Careless Driving	FHPD130FF107143
42	12/17/2013	Tue		Sideswipe	No	No	\$2,000		Daylight	Careless Driving	FHPD130FF107302
43	12/24/2013	Tue			No	No	\$5,900		Dark - Lighted	Careless Driving	FHPD13OFF109823
44	12/26/2013	Thu			No	Yes	\$1,800		Daylight	FTY R/W	FHPD130FF110169
45	12/28/2013	Sat		Left Turn	No	No	\$400		Daylight	FTY R/W	FHPD130FF110862
46	12/28/2013	Sat	9:30 AM	Kear End	No	No	\$18,000	Cloudy	Daylight	Careless Driving	FHPD130FF110778
 											
TOTAL											IN ADDODED LANC
TOTAL	10	EATA!	INITIAN	000	ANICLE	LEST	DICUT	DEAD TAIC	CIDE CHURE	LIEAD ON	IMPROPER LANE
TOTAL		FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END		HEAD ON	CHANGE
	46	0		31	2	10	2	18	5		
	%	0%	33%	67%	4%	22%	4%	39%	11%	0%	
ONE VEHICLE PED/BIKE		DAY	DUCK/MICHT	\\/CT	DBV	CDEEDING	ETV D /\A	ALCOHOL (DRUCC	DISTRACTED	FAIL TO OBEY	
ONE VEHICLE 4		PED/BIKE 4	DAY 31	DUSK/NIGHT 15	WET 3	DRY 43	SPEEDING 0	FTY R/W	ALCOHOL/DRUGS 0	DISTRACTED 13	SIGNAL
 	9%	9%	67%	33%	7%	93%	0%	28%			
L	370	3/0	07/0	33/6	7 70	23/0	070	20/0	1 0/6	1 20/0	2/0



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



CRASH SUMMARY

		• · · · · · · · · · · · · · · · · · · ·	• •	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	22	9	0	31
NIGHTTIME	9	6	0	15
TOTAL	31	15	0	46

	Crash Summary												
Locatio	n:	AMERICA	NA BOULE\	/ARD			Intersection Control: Signalized						
Intersecting Route: SAN ANTONIO AVENUE								Prepared by: CNL					
Study Period From: 2011 - 2013							County:	Orange					
	, , , , , , , , , , , , , , , , , , , ,						PROPERTY						
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #		
1	1/25/2011	Tue	7:54 AM	Rear End	No	Yes	\$3,500	Clear	Daylight	Careless Driving	FHPD11OFF006521		
2	2/9/2011	Wed	9:30 AM	Rear End	No	Yes	\$4,500	Clear	Daylight	Careless Driving	FHPD11OFF010732		
3	2/28/2011	Mon	4:20 PM	Sideswipe	No	No	\$800	Clear	Daylight	Careless Driving	FHPD11OFF016571		
4	5/7/2011	Sat	4:56 PM	Rear End	No	No	\$2,250	Clear	Daylight	Careless Driving	FHPD11OFF037581		
5	5/23/2011	Mon	7:46 AM	Right Turn	No	No	\$1,000	Clear	Daylight	Failure to Yield ROW	FHPD110FF041963		
6	5/24/2011	Tue	3:23 PM	Pedestrian	No	Yes	\$25	Clear	Daylight	Careless Driving	FHPD110FF042350		
7	6/1/2011	Wed	2:40 PM	Rear End	No	No	\$200	Clear	Daylight	Careless Driving	FHPD110FF044785		
8	7/23/2011	Sat	8:59 PM	Left Turn	No	No	\$11,000	Clear	Dark - Lighted	Failure to Yield ROW	FHPD11OFF060618		
9	11/18/2011	Fri	12:21 PM	Rear End	No	No	\$1,000	Clear	Daylight	Careless Driving	FHPD11OFF095699		
10	1/2/2012	Mon	7:53 PM	Rear End	No	No	\$200	Clear	Dark - Lighted	Careless Driving	FHPD12OFF000401		
11	1/31/2012	Tue	2:48 PM	Angle	No	Yes	\$4,000	Clear	Daylight	Fail to Obey Signal	FHPD12OFF008009		
12	2/1/2012	Wed	6:36 PM	Left Turn	No	No	\$3,000	Clear	Dark - Lighted	Failure to Yield ROW	FHPD12OFF008391		
13	5/30/2012	Wed	6:38 PM	Angle	No	No	\$2,300	Clear	Daylight	Fail to Obey Signal	FHPD12OFF045665		
14	5/31/2012	Thu	2:20 PM	Sideswipe	No	No	\$3,000	Cloudy	Daylight	Careless Driving	FHPD12OFF045864		
15	7/25/2012	Wed	8:50 PM	Left Turn	No	No	\$3,000	Clear	Dark - Lighted	Failure to Yield ROW	FHPD12OFF063156		
16	8/27/2012	Mon	7:05 PM	Rear End	No	No	\$1,000	Cloudy	Dusk	Careless Driving	FHPD12OFF073401		
17	10/25/2012	Thu	4:14 PM	Left Turn	No	No	\$2,510	Cloudy	Daylight	Failure to Yield ROW	FHPD12OFF091552		
18	12/16/2012	Sun	7:45 AM	Sideswipe	No	No	\$100	Clear	Daylight	Unknown	FHPD12OFF106837		
19	1/16/2013	Wed	10:00 AM	Rear End	No	No	\$21,000	Clear	Daylight	Careless Driving	FHPD13OFF004313		
20	2/6/2013	Wed	12:42 PM	Rear End	No	No	\$7,000	Clear	Daylight	Careless Driving	FHPD13OFF010000		
21	2/26/2013	Tue	12:30 AM	Off Road	No	No	\$12,000	Clear	Dawn	Careless Driving	FHPD13OFF015836		
22	3/21/2013	Thu	3:49 PM	Sideswipe	No	No	\$1,364	Clear	Daylight	Improper Lane Change	FHPD130FF023191		
23	4/16/2013	Tue	6:11 PM	Other	No	No	\$500	Clear	Daylight	Unknown	FHPD13OFF031350		
24	6/3/2013	Mon	6:07 PM	Left Turn	No	Yes	\$5,500	Clear	Daylight	Fail to Obey Signal	FHPD13OFF046044		
25	6/13/2013	Thu	12:35 AM	Left Turn	No	No	\$8,000	Clear	Dark - Lighted	Fail to Obey Signal	FHPD13OFF049068		
26	6/13/2013	Thu		Rear End	No	No	\$1,500	Clear	Dark - Lighted	Careless Driving	FHPD13OFF049344		
27	10/11/2013	Fri	7:09 PM		No	No	\$5,000	Clear	Dusk	Careless Driving	FHPD13OFF087384		
28	11/2/2013	Sat		Off Road	No	No	\$600	Cloudy	Daylight	Careless Driving	FHPD13OFF093799		
	11, 2, 2013	Jut	3.30 / ((V)	J.: 11000	110	110	7000	2.5447	201.18110		513611033733		
											IMPROPER LANE		
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE		
	28	0	5		2	6	1	9		0	(1) (1)		
	%	0%	18%	82%	7%	21%	4%	32%		0%	4%		
ONE VE	, , ,	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING		ALCOHOL/DRUGS	DISTRACTED	FAIL TO OBEY SIGNAL		
J. 72 72	1	1 LD/ BIRL	18	•	0	28	0	5	,	2	L. J. T. C. C. S. C. T. S. C. T. A.		
	4%	4%	64%	36%	0%	100%	0%	18%		7%	14%		
	+/0	4/0	04/0	30/0	0/0	100/0	0/0	10/0	0/8	7 /0	14		

Americana Boulevard at San Antonio Boulevard YEAR: LOCATION: 2011-2013



COLLISION SYMBOLS



VEHICLE PATH **BACKING VEHICLE** PARKED VEHICLE FATALITY RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



CRASH SUMMARY

			•	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	13	5	0	18
NIGHTTIME	10	0	0	10
TOTAL	23	5	0	28

	Crash Summary											
Locatio	Location: AMERICANA BOULEVARD Intersection Control: Signalized											
			ANDE AVEN				Prepared by: CNL					
	eriod From:	2011 - 20	13				County: Orange					
							PROPERTY					
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #	
1	1/26/2011	Wed	2:00 AM	Off Road	No	No	\$250	Rain	Dark - Lighted	Unknown	FHPD110FF006757	
2	3/5/2011	Sat	11:26 AM	Rear End	No	Yes	\$150	Clear	Daylight	Unknown	FHPD110FF018125	
3	3/9/2011	Wed	10:50 AM	Off Road	No	Yes	\$2,000	Clear	Daylight	Unknown	FHPD110FF019267	
4	4/6/2011	Wed	2:16 PM	Other	No	No	\$2,500	Clear	Daylight	Unknown	FHPD11OFF028335	
5	4/15/2011	Fri	12:05 AM	Other	No	No	\$15,000	Clear	Dark - Lighted	Unknown	FHPD110FF030895	
6	5/17/2011	Tue	8:56 PM	Angle	No	Yes	\$6,000	Clear	Dark - Lighted	Fail to Yield ROW	FHPD110FF040554	
7	7/27/2011	Wed	6:28 PM	Rear End	No	No	\$1,300	Rain	Daylight	Careless Driving	ORCC110FF000947	
8	7/28/2011	Thu	7:06 PM	Sideswipe	No	No	\$200	Clear	Daylight	Unknown	FHPD110FF062011	
9	3/3/2012	Sat	1:04 PM	Angle	No	Yes	\$2,800	Clear	Daylight	Fail to Obey Signal	FHPD12OFF017875	
10	3/11/2012	Sun	7:05 AM	Off Road	No	No	\$8,000	Clear	Dawn	Unknown	FHPD12OFF020387	
11	3/22/2012	Thu	7:25 AM	Left Turn	No	No	\$400	Clear	Daylight	Fail to Yield ROW	FHPD12OFF024181	
12	5/15/2012	Tue	4:52 PM	Rear End	No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD12OFF040837	
13	5/30/2012	Wed	6:20 PM	Head On	No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD12OFF045661	
14	7/23/2012	Mon	1:02 PM	Left Turn	No	Yes	\$2,500	Clear	Daylight	Fail to Yield ROW	FHPD12OFF062380	
15	9/28/2012	Fri	8:00 AM	Angle	No	No	\$13,000	Clear	Daylight	Fail to Obey Signal	FHPD12OFF083011	
16	10/5/2012	Fri		Off Road	No	No	\$500	Clear	Daylight	Unknown	FHPD12OFF085384	
17	1/7/2013	Mon	1:50 PM	Left Turn	No	Yes		Clear	Daylight	Careless Driving	FHPD13OFF001801	
18	6/10/2013	Mon	1:00 PM	Sideswipe	No	No	\$550	Clear	Daylight	Improper Right Turn	FHPD130FF048246	
19	6/24/2013	Mon	8:54 AM		No	Yes	\$7,000	Clear	Daylight	Fail to Obey Signal	FHPD130FF052658	
20	7/14/2013	Sun	5:42 PM	Sideswipe	No	No	\$7,400	Rain	Daylight	Improper Lane Change	FHPD13OFF059379	
21	8/24/2013	Sat	8:30 PM	Left Turn	No	Yes	\$6,000	Cloudy	Dark - Lighted	Unknown	FHPD13OFF072710	
22	9/23/2013	Mon	5:04 PM	Rear End	No	No	\$6,200	Rain	Daylight	Careless Driving	FHPD13OFF081839	
23	10/4/2013	Fri	6:10 PM	Pedestrian	No	No	\$0	Clear	Daylight	Unknown	FHPD13OFF085264	
24	10/10/2013	Thu	8:45 PM	Left Turn	No	No	\$16,000	Clear	Dusk	Fail to Yield ROW	FHPD13OFF087058	
				Rollover/ Off			·					
25	10/28/2013	Mon	6:20 PM	Road	No	No	\$7,700	Clear	Dusk	Careless Driving	FHPD13OFF092356	
26	11/20/2013	Wed		Rear End	No	Yes	\$1,000	Clear	Dusk	Careless Driving	FHPD13OFF099230	
27	12/17/2013	Tue	8:32 AM	Head On	No	No	\$500	Clear	Daylight	Careless Driving	FHPD13OFF107292	
TOTAL									_	-		
											IMPROPER LANE	
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE	
	27	0	9	18	4	5	0	5	3	2		
	%	0%	33%	67%	15%	19%	0%	19%	11%	7%	4%	
											FAIL TO OBEY	
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGH	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL	
	5	1	19		4	23	0	4	0	6	3	
	19%	4%	70%	30	15	85%	0%	15%	0%	22%		

LOCATION: Americana Boulevard at Rio Grande Avenue YEAR: 2011-2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION

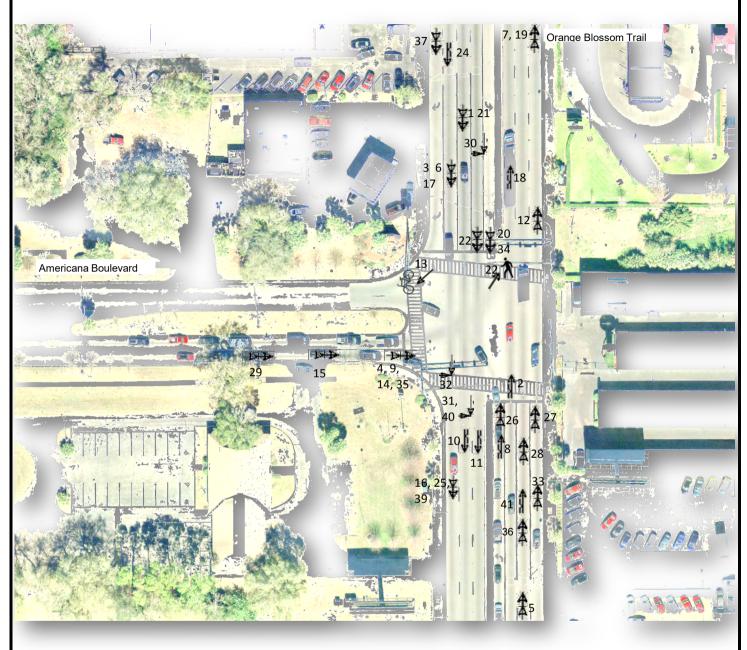


	CRAS	H SU	JMMAR	Υ
--	------	------	-------	---

			•	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	13	6	0	19
NIGHTTIME	5	3	0	8
TOTAL	18	9	0	27

Intersecting Notes AMERICANA BOULEYARD Intersecting Notes Country Coange							C	rash Sumn	narv				
Intersecting Rouse ORANGE BLOSSOM TRAIL (US 441)	Locatio	n:	AMERICA	NA BOULFY	/ARD			1	•	Signalized			
Study Period From: 2013													
NO DATE DAY TIME TYPE FATAL RIJUNY DAMAGE WEATHER DAY/NIGHT CONTRIBUTING CAUSE ACCIDENT REPORT in 1 1/26/2013 Soft 12:34 PM Sideswipe No No S.500 Glear Davigint Unknown FHPD130FF007502 J. 27/11/2013 Mon 12:36 PM Sear Find No No S.700 Glear Davigint Unknown FHPD130FF007502 J. 27/11/2013 Word 12:75 PM Rear Find No No S.700 Glear Davigint Unknown FHPD130FF007502 J. 27/11/2013 Word 12:75 PM Rear Find No No S.700 Glear Davigint Carreless Driving FHPD130FF01357 FHPD130FF01357 J. 27/11/2013 Word 13:57 PM Rear Find No No S.400 Glear Davigint Carreless Driving FHPD130FF01357 FHPD130FF013671 J. 27/11/2013 Word 3:05 PM Rear Find No No S.12,700 Glear Davigint Carreless Driving FHPD130FF013671 J. 27/11/2013 Saft 3:57 PM Sear Find No No S.12,700 Glear Davigint Carreless Driving FHPD130FF013671 J. 27/11/2013 Saft 3:59 PM Sedewhype No No S.2,200 Clear Davigint Carreless Driving FHPD130FF023643 J. 27/11/2013 Saft 3:59 PM Sedewhype No No S.2,200 Clear Davigint Carreless Driving FHPD130FF033641 J. 47/12/2013 Saft 3:59 PM Sedewhype No No S.1,200 Clear Davigint Carreless Driving FHPD130FF033641 J. 37/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving FHPD130FF033641 J. 37/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving FHPD130FF033641 J. 37/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving FHPD130FF033644 J. 37/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving FHPD130FF033644 J. 37/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving FHPD130FF035634 J. 57/12/2013 Thu 6:10 PM Rear Find No No S.1,200 Clear Davigint Carreless Driving				DECOSSOIVI	INAIL (03 441)								
NO	Study P	erioù Froin:	2013					,	Orange				
1 1/28/2013 Saft 2:34 PM Sickewope No Ne Sa00 Clear Davigibit Unknown FPD130F0707352	NO	DATE	DAV	TINAL	TVDE		INITIDY		WEATHER	DAY/NICHT	CONTRIBUTING CALICE	ACCIDENT DEDONT #	
1/28/2013 Mon. 12:36 PM Sideswipe No. No. Sept. Sept.													
3 2/11/2013 Mon 8:20 AM Rear End No No S250 Glear Doylight Careless Driving HPD130FF011375 (2) 2/32/2013 Sst 7:51 PM Bear End No No S250 Glear Doylight Careless Driving HPD130FF013871 (2) 2/32/2013 Wed 9:16 AM Rear End No No S4,000 Clear Daylight Careless Driving HPD130FF018311 (2) 2/32/2013 Wed 9:16 AM Rear End No No S4,000 Clear Daylight Careless Driving HPD130FF018401 (2) 2/32/2013 Wed 3:35 PM Rear End No No S4,000 Clear Daylight Careless Driving HPD130FF018401 (2) 2/32/2013 Mon S4,000 PM Rear End No No S1,000 Clear Daylight Careless Driving HPD130FF018401 (2) 2/32/2013 Mon S4,000 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF018401 (2) 2/32/2013 Mon S4,000 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF02840 (2) 2/32/2013 Sud S3,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF028401 (2) 2/32/2013 Wed S1,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF030441 (2) 5/32/2013 Wed S1,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF030441 (2) 5/32/2013 Wed S1,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF030441 (2) 5/32/2013 Wed S1,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF030461 (2) 5/32/2013 Wed S1,000 PM S4,000 PM S4,000 Clear Daylight Careless Driving HPD130FF030461 (2) 5/32/2013 Thu G64 PM Rear End No No S1,000 Clear Daylight Careless Driving HPD130FF030F030561 (2) 5/32/2013 Thu G64 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF030F03057 (2) 5/32/2013 Thu G64 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF030F03057 (2) 5/32/2013 Thu G64 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF030F03057 (2) 5/32/2013 Thu G64 PM Rear End No No S3,000 Clear Daylight Careless Driving HPD130FF030F03057 (2) 5/32/2013 Sat 3:35 PM Rear End No No No S3,000 Clear Daylight Careless Driving HPD130FF030580 (2) 7/12/2013 Sat 3:35 PM Rear End No No No S3,000 Clear Daylight Careless Driving HPD130FF030598 (2) 7/12/2013 Sat 3:35 PM Rear End No No No S3,000 Cl										, , ,			
A 2/13/2013 Wed 12:57 PM mear End No No S400 Glear Daylight Careless Driving HPD130FF011977										, ,	ļ		
S 2723/2013 Saft 7.51 PM Rear End No No S.400 Clear Daylight Careless Driving FHPD130FF013167										, 0		1	
6 3/6/2013 Wed 9:16 AM Rear End No No 54,000 Clear Daylight Carcless Driving FHPD130FF018311 7 3/6/2013 Wed 3:05 PM Rear End No No 51,200 Clear Daylight Carcless Driving FHPD130FF018312 8 3/9/2013 Sat 3:12 PM Sideswipe No No 55,500 Clear Daylight Carcless Driving FHPD130FF018342 10 4/11/2013 Thu 8:55 AM Sideswipe No No 52,500 Clear Daylight Unknown FHPD130FF02840 11 4/13/2013 Thu 8:55 AM Sideswipe No No 52,500 Clear Daylight Unknown FHPD130FF02840 12 4/30/2013 Tue 4 20 PM Rear End No No 51,000 Clear Daylight Carcless Driving FHPD130FF02840 13 5/1/2013 Wed 1:35 PM Sideswipe No No 51,000 Clear Daylight Carcless Driving FHPD130FF02840 14 5/9/2013 Thu 6:40 PM Rear End No No 51,000 Clear Daylight Carcless Driving FHPD130FF02855 14 55/23/2013 Thu 6:40 PM Rear End No No 51,500 Clear Daylight Carcless Driving FHPD130FF02856 15 5/23/2013 Thu 6:40 PM Rear End No No 54,500 Clear Daylight Carcless Driving FHPD130FF02856 16 5/30/2013 Thu 10:20 AM Rear End No No 54,500 Clear Daylight Carcless Driving FHPD130FF02857 17 6/8/2013 Sat 2:37 PM Rear End No No 53,000 Clear Daylight Carcless Driving FHPD130FF02507 18 7/3/2013 Wed 31.5 FM Sideswipe No No 51,000 Clear Daylight Carcless Driving FHPD130FF02507 19 7/6/2013 Sat 3:40 AM Rear End No No 54,500 Clear Daylight Carcless Driving FHPD130FF02507 19 7/6/2013 Sat 3:340 AM Rear End No No 54,500 Clear Daylight Carcless Driving FHPD130FF02508 20 7/13/2013 Sat 3:340 AM Rear End No No 51,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 21 7/16/2013 Sat 3:340 AM Rear End No No 51,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 22 7/16/2013 Tue 5:25 PM Sideswipe No No 51,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 23 7/12/2013 Sat 5:35 PM Rear End No No 58,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 24 8/1/2013 Tue 5:25 PM Sideswipe No No 51,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 25 8/7/2013 Wed 1:21 PM Rear End No No 53,000 Clear Dark Lighted Carcless Driving FHPD130FF02508 25 8/7/2013 Wed 1:21 P										, ,			
3/6/2013 Wed 3/05 PM Rear End No No 51,2700 Clear Daylight Careless Driving FHPD130FF013403 3 /9/2013 Sat 31,2 PM Sideswipe No No 51,566 Clear Daylight Careless Driving FHPD130FF023840 10 4/11/2013 Mon 5.40 PM Rear End No No 5.2000 Cloar Daylight Careless Driving FHPD130FF023840 11 4/13/2013 Sat 3.59 PM Sideswipe No No 5.2000 Cloar Daylight Careless Driving FHPD130FF023841 12 4/30/2013 Tue 4.20 PM Rear End No No 5.3000 Clear Daylight Unknown FHPD130FF03341 13 5/1/2013 Wed 3.39 PM Biycle No Yes 5.10 Rain Daylight Unknown FHPD130FF033434 13 5/1/2013 Wed 3.39 PM Biycle No Yes 5.10 Rain Daylight Unknown FHPD130FF033543 14 5/9/2013 Thu 6.13 AM Rear End No No 5.1500 Clear Daylight Unknown FHPD130FF033543 15 5/23/2013 Thu 6.14 AM Rear End No No 5.1500 Clear Daylight Careless Driving FHPD130FF033508 15 5/30/2013 Thu 6.12 AM Rear End No No 5.450 Clear Daylight Careless Driving FHPD130FF034563 17 6/8/2013 Sat 2.37 PM Rear End No No 5.500 Clear Daylight Careless Driving FHPD130FF04563 17 6/8/2013 Sat 3.340 AM Rear End No No 5.100 Clear Daylight Careless Driving FHPD130FF04563 17 7/6/2013 Sat 3.340 AM Rear End No No 5.100 Clear Dark-Lighted Careless Driving FHPD130FF066688 17/16/2013 Tue 5.53 PM Rear End No No 5.100 Clear Dark-Lighted Careless Driving FHPD130FF066688 17/16/2013 Tue 5.53 PM Rear End No No 5.100 Clear Dark-Lighted Careless Driving FHPD130FF066689 17/16/2013 Tue 5.53 PM Rear End No No 5.100 Clear Dark-Lighted Careless Driving FHPD130FF066689 17/16/2013 Tue 5.55 PM Sideswipe No No 5.100 Clear Dark-Lighted Careless Driving FHPD130FF066889 17/16/2013 Wed 2.710 AM Rear End No No 5.100 Clear Dark-Lighted C						No	No	-		·			
8 3/9/2013 Sart 3:12 PM Sideswipe No No 51.166 Clear Daylight Careless Driving FHPD130FF019480						No	No			· ·			
9 4/8/2013 Mon 5:40 PM Rear End No No S3,500 Clear Daylight Careless Driving FHPD130FF03840	7	3/6/2013	Wed	3:05 PM	Rear End	No	No	\$12,700	Clear	Daylight	Careless Driving	FHPD13OFF018403	
10 4/11/2013 Thu 8.55 AM Sideswipe No No \$3.200 Cloudy Daylight Unknown FHPD130FF02612	8	3/9/2013	Sat	3:12 PM	Sideswipe	No	No	\$1,166	Clear	Daylight	Improper Lane Change	FHPD13OFF019342	
11 4/13/2013	9	4/8/2013	Mon	5:40 PM	Rear End	No	No	\$3,600	Clear	Daylight	Careless Driving	FHPD13OFF028840	
12 4/30/2013 Tue 4/20 PM Rear End No No S11,000 Clear Daylight Careless Driving FHPD130FF035632 F15/23/2013 Thu 6/30 PM Rear End No No S1,550 Clear Daylight Careless Driving FHPD130FF035632 Thu 6/30 PM Rear End No No S1,550 Clear Daylight Careless Driving FHPD130FF036808 The F15/23/2013 Thu 6/30 PM Rear End No No S4,550 Clear Daylight Careless Driving FHPD130FF036808 The S/23/2013 Thu 10/20 AM Rear End No No S4,000 Clear Daylight Careless Driving FHPD130FF045631 The S/23/2013 Thu 10/20 AM Rear End No No S4,000 Clear Daylight Careless Driving FHPD130FF045631 The S/23/2013 Thu S15 PM Sideswipe No No S1,100 Cloudy Daylight Careless Driving FHPD130FF055779 The	10	4/11/2013	Thu	8:55 AM	Sideswipe	No	No	\$2,500	Cloudy	Daylight	Unknown	FHPD13OFF029612	
13 5/1/2013 Wed 1:35 PM Bicycle No Yes 5:10 Rain Daylight Unknown FHPD130FF03808 F15 5/23/2013 Thu 6:40 PM Rear End No Yes 5:310 Cloudy Daylight Careless Driving FHPD130FF03808 T15 5/23/2013 Thu 10:20 AM Rear End No Yes 5:310 Cloudy Daylight Careless Driving FHPD130FF042507 T16 5/30/2013 Thu 10:20 AM Rear End No No S:450 Clear Daylight Careless Driving FHPD130FF042507 T17 Careless Driving FHPD130FF04551 T18	11	4/13/2013	Sat	9:59 PM	Sideswipe	No	No	\$3,000	Clear	Dark - Lighted	Unknown	FHPD130FF030441	
13 5/1/2013 Wed 1:35 PM Bicycle No Yes 5:10 Ralin Daylight Unknown FHPD130FF035682	12	4/30/2013	Tue	4:20 PM	Rear End	No	No	\$11,000	Clear	Daylight	Careless Driving	FHPD130FF035434	
14	13		Wed	1:35 PM	Bicycle	No	Yes	\$10	Rain		Unknown	FHPD13OFF035652	
15 5/23/2013 Thu 6-40 PM Rear End No Yes S310 Cloudy Daylight Careless Driving FHPD130FR045671 FHPD130FR045673 FHPD130FR04401 FHPD1											Careless Driving		
16						No					Careless Driving		
17													
18													
19										· ·			
20										, , ,			
21													
22 7/20/2013 Sat 1:31 AM Pedestrian No Yes \$1,000 Cloudy Dark - Lighted Failure to Yield ROW FHPD13OFF061318										J	†	1	
23 7/27/2013 Sat 5:15 AM Rear End No No \$\$,000 Clear Dark - Lighted Careless Driving FHPD130FF063372													
24 8/1/2013 Thu 5:25 PM Sideswipe No No \$1,000 Cloudy Daylight Improper Lane Change FHPD130FF065087									•	_			
25 8/7/2013 Wed 7:18 AM Rear End No Yes \$10,000 Clear Daylight Careless Driving FHPD130FF066897 26 8/10/2013 Sat 12:10 AM Rear End No No \$750 Clear Dark-Lighted Careless Driving FHPD130FF068899 27 9/4/2013 Wed 12:00 AM Rear End No No \$1,000 Clear Dark-Lighted Unknown FHPD130FF068898 28 9/18/2013 Wed 10:12 PM Rear End No Yes \$1,000 Clear Dark-Lighted Careless Driving FHPD130FF084811 29 9/30/2013 Mon 8:15 PM Rear End No Yes \$0 Clear Dark-Lighted Careless Driving FHPD130FF084811 30 10/2/2013 Wed 2:43 AM Other No No \$39,500 Clear Dark-Lighted Failure to Yield ROW FHPD130FF084011 31 10/6/2013 Sun 11:13 AM Other No No \$39,500 Clear Dark-Lighted Failure to Yield ROW FHPD130FF085731 32 10/10/2013 Thu 11:18 AM Right Turn No No \$3,200 Clear Daylight Improper Right Turn FHPD130FF08682 33 10/24/2013 Thu 4:03 PM Rear End No No \$1,500 Clear Daylight Careless Driving FHPD130FF086882 33 10/24/2013 Thu 4:03 PM Rear End No No \$600 Clear Daylight Careless Driving FHPD130FF096682 34 11/5/2013 Tue 12:12 PM Rear End No No \$600 Clear Daylight Careless Driving FHPD130FF096652 35 11/6/2013 Wed 10:21 AM Rear End No Yes \$1,000 Cloudy Daylight Careless Driving FHPD130FF094652 36 11/16/2013 Sat 8:35 PM Rear End No Yes \$1,000 Cloudy Daylight Careless Driving FHPD130FF094652 36 11/16/2013 Sat 8:35 PM Rear End No Yes \$1,000 Cloudy Daylight Careless Driving FHPD130FF094652 36 11/16/2013 Tue 11:49 AM Rear End No Yes \$1,000 Cloudy Daylight Careless Driving FHPD130FF094654 39 12/10/2013 Tue 11:49 AM Rear End No Yes \$1,500 Rain Dusk Careless Driving FHPD130FF094654 39 12/10/2013 Tue 11:49 AM Rear End No No \$3,000 Clear Daylight Unknown FHPD130FF105149 40 12/25/2013 Wed 3:20 AM Right Turn No No So \$0.00 Clear Daylight Unknown FHPD130FF105149 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$3,000 Clear Daylight Unknown FHPD130FF10566 TOTAL PD ANGE END TOTAL NO PATAL INJURY PDO ANGLE LEFT RIGHT REAR END SIDE SWIPE HEAD ON CHANGE FILT OBEY SIGNAL IMPROPER LANE FAIL TO OBEY SIGNAL FAIL TO OBEY SIGNAL										·	•		
26 8/10/2013 Sat 12:10 AM Rear End No No \$750 Clear Dark - Lighted Careless Driving FHPD130FF067899										· ·		FHPD13OFF065087	
27 9/4/2013 Wed 12:00 AM Rear End No No \$1,000 Clear Dark - Lighted Unknown FHPD130FF075898			Wed	7:18 AM	Rear End	No	Yes			Daylight		FHPD13OFF066897	
28 9/18/2013 Wed 10:12 PM Rear End No Yes \$1,000 Clear Dark - Lighted Careless Driving FHPD130FF080481	26	8/10/2013	Sat			No	No	\$750	Clear		Careless Driving	FHPD13OFF067899	
29 9/30/2013 Mon 8:15 PM Rear End No Yes \$0 Clear Dark - Not Lighted Unknown FHPD130FF084111	27	9/4/2013	Wed	12:00 AM	Rear End	No	No	\$1,000	Clear	Dark - Lighted	Unknown	FHPD13OFF075898	
30	28	9/18/2013	Wed	10:12 PM	Rear End	No	Yes	\$1,000	Clear	Dark - Lighted	Careless Driving	FHPD13OFF080481	
31 10/6/2013 Sun 11:13 AM Other No No \$3,200 Clear Daylight Improper Right Turn FHPD130FF085731	29	9/30/2013	Mon	8:15 PM	Rear End	No	Yes	\$0	Clear	Dark - Not Lighted	Unknown	FHPD130FF084111	
32 10/10/2013 Thu 11:18 AM Right Turn No No \$1,500 Clear Daylight Fail to Stop on Red FHPD13OFF086882	30	10/2/2013	Wed	2:43 AM	Other	No	No	\$39,500	Clear	Dark - Lighted	Failure to Yield ROW	FHPD130FF084401	
33 10/24/2013 Thu 4:03 PM Rear End No No \$10,700 Clear Daylight Careless Driving FHPD130FF091099	31	10/6/2013	Sun	11:13 AM	Other	No	No	\$3,200	Clear	Daylight	Improper Right Turn	FHPD13OFF085731	
33 10/24/2013 Thu 4:03 PM Rear End No No \$10,700 Clear Daylight Careless Driving FHPD130FF091099	32	10/10/2013	Thu	11:18 AM	Right Turn	No	No	\$1,500	Clear	Daylight	Fail to Stop on Red	FHPD13OFF086882	
34 11/5/2013 Tue 12:12 PM Rear End No No \$600 Clear Daylight Careless Driving FHPD130FF094652	33	10/24/2013	Thu			No	No	\$10,700	Clear	· ·	Careless Driving	FHPD13OFF091099	
35	34	11/5/2013	Tue	12:12 PM	Rear End	No	No						
36													
37 11/21/2013 Thu 5:12 PM Rear End No Yes \$1,500 Rain Dusk Careless Driving FHPD130FF099606 38 12/4/2013 Wed 3:35 PM Sideswipe No No \$200 Clear Daylight Careless Driving FHPD130FF103554 39 12/10/2013 Tue 11:49 AM Rear End No No \$3,000 Clear Daylight Unknown FHPD130FF105149 40 12/25/2013 Wed 3:20 AM Right Turn No No \$5,000 Clear Daylight Unknown FHPD130FF109909 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$3,000 Clear Daylight Unknown FHPD130FF109909 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$3,000 Clear Daylight Unknown FHPD130FF10966 TOTAL													
38 12/4/2013 Wed 3:35 PM Sideswipe No No \$200 Clear Daylight Careless Driving FHPD130FF103554 39 12/10/2013 Tue 11:49 AM Rear End No No \$3,000 Clear Daylight Unknown FHPD130FF105149 40 12/25/2013 Wed 3:20 AM Right Turn No No \$5,000 Clear Daylight Unknown FHPD130FF109909 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$300 Clear Daylight Unknown FHPD130FF109909 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$300 Clear Daylight Unknown FHPD130FF10966 TOTAL TOTAL													
39 12/10/2013 Tue 11:49 AM Rear End No No \$3,000 Clear Daylight Unknown FHPD13OFF105149													
40 12/25/2013 Wed 3:20 AM Right Turn No No \$5,000 Clear Dark - Lighted Fail to Obey Signal FHPD13OFF109909 41 12/26/2013 Thu 3:55 PM Sideswipe No No \$300 Clear Daylight Unknown FHPD13OFF110266 TOTAL TOTAL NO FATAL INJURY PDO ANGLE LEFT RIGHT REAR END SIDE SWIPE HEAD ON CHANGE 41 0 1 2 0 0 0 2 26 9 0 0 3 6 0% 29% 71 0% 0% 5% 63% 22% 0% 7% ONE VEHICLE PED/BIKE DAY DUSK/NIGHT WET DRY SPEEDING FTY R/W ALCOHOL/DRUGS DISTRACTED SIGNAL 10 1 2 39 0 2 1 13 13 11													
41 12/26/2013 Thu 3:55 PM Sideswipe No No \$300 Clear Daylight Unknown FHPD130FF110266 TOTAL												1	
TOTAL FATAL INJURY PDO ANGLE LEFT RIGHT REAR END SIDE SWIPE HEAD ON IMPROPER LANE CHANGE 1													
TOTAL NO	41	12/26/2013	inu	3:55 PM	Sideswipe	NO	NO	\$300	ciear	paylight	OTIKHOWII	rnru130FF110266	
TOTAL NO	TCT::												
TOTAL NO FATAL INJURY PDO ANGLE LEFT RIGHT REAR END SIDE SWIPE HEAD ON CHANGE 41 0 1 2 0 0 2 26 9 0 3 % 0% 29% 71 0% 0% 5% 63% 22% 0% 7% ONE VEHICLE PED/BIKE DAY DUSK/NIGHT WET DRY SPEEDING FTY R/W ALCOHOL/DRUGS DISTRACTED SIGNAL 0 2 27 14 2 39 0 2 1 13 1	TOTAL												
% 0% 29% 71 0% 0% 5% 63% 22% 0% 7% ONE VEHICLE PED/BIKE DAY DUSK/NIGHT WET DRY SPEEDING FTY R/W ALCOHOL/DRUGS DISTRACTED SIGNAL 0 2 27 14 2 39 0 2 1 13 1	TOTAL	NO							REAR END				
ONE VEHICLE PED/BIKE DAY DUSK/NIGHT WET DRY SPEEDING FTY R/W ALCOHOL/DRUGS DISTRACTED FAIL TO OBEY 0 2 27 14 2 39 0 2 1 13 1													
ONE VEHICLE PED/BIKE DAY DUSK/NIGHT WET DRY SPEEDING FTY R/W ALCOHOL/DRUGS DISTRACTED SIGNAL 0 2 27 14 2 39 0 2 1 13 1		%	0%	29%	71	0%	0%	5%	63%	22%	0%	7%	
0 2 27 14 2 39 0 2 1 13 1												FAIL TO OBEY	
	ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL	
0% 5% 66% 34% 5% 95% 0% 5% 2% 32% 2%		0	2	27	14	2	39	0	2	1	13	1	
		0%	5%	66%	34%	5%	95%	0%	5%	2%	32%	2%	

Americana Boulevard at Orange Blossom Trail YEAR: LOCATION: 2013



COLLISION SYMBOLS



VEHICLE PATH **BACKING VEHICLE** PARKED VEHICLE FATALITY RIGHT TURN COLLISION



REAR-END COLLISION **HEAD-ON COLLISION** OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



CRASH	ı Sl	JMN	//ARY

	CRASH SUMIMAR I									
	PROP. DMG ONLY	INJURY	FATAL	TOTAL						
DAYTIME	21	6	0	27						
NIGHTTIME	8	6	0	14						
TOTAL	29	12	0	41						

Americana Boulevard

General

							Severity	
No.	From	То	Cross Street	Direction	Problem	Solution	(L, M, H)	Photo Name
1	n/a	n/a	Jaha Varras Davistari	EB & WB	Signal heads have backplates, but no reflective borders; E/W approaches	Enhance signal head backplates with reflective borders		VIS kb 1.jpg
+++	n/a	n/a	John Young Parkway	EB & WB	Signal heads have no backplates; 45 mph	borders		
2	n/a	n/a	John Young Parkway	NB & SB	approaches	Install reflective border signal head backplates	L	VIS_kb_2.jpg
		.,, .,	oom roung rummay	N, W, and S	арричание	Short term: refresh crosswalks. After resurfacing:	 	
3	n/a	n/a	John Young Parkway	legs	Crosswalks are in poor condition	upgrade to high-emphasis crosswalks.	M	PMS_kb_1.jpg
						As signs become faded or damaged, replace with		
1						current sign R10-3i which includes pedestrian		SGN_cl_70.jpg
4	n/a	n/a	John Young Parkway	all corners	Pedestrian crossing signs are outdated	countdown information	L	
i _ l	,	,		14/5	Drivers turning right observed not yielding to			PED km 5.ipa
5	n/a	n/a	John Young Parkway	WB	pedestrians	Install "Turning Vehicles Yield to Pedestrians" sign	М	
6	10'	north of	John Young Parkway	median	"Keep Right" sign leaning	Reset "Keep Right" sign		SGN kb 4.jpg
	10	HOLLITOI	John Foung Fanway	median	recepting significanting	clear and remove debris, provide ditch pavement,	-	
7	150' east of	n/a	John Young Parkway	north side	drainage structure is blocked with debris	and possibly widen opening to structure	L	BCZ cl 61.jpg
					3	, , ,		ADA 5 :
8	250' east of	n/a	John Young Parkway	EB	Fence falling toward sidewalk	Request owner of fence to repair it	L	ADA rn 5.jpg
			-					SGN cl 53.jpg
9	250' east of	n/a	John Young Parkway	north side	stop sign is bent over	request property owner to reset stop sign	L	<u>3011 Cr 33.jpg</u>
1 40	0001 4 6	,			pavement edge drop-off around NE corner of	. , "	1 . 1	PAV cl 52.jpg
10	300' east of	n/a	John Young Parkway	north side	shopping center driveway	repair drop-off	L	
11	300' east of	n/a	John Young Parkway	north side	broken mitered end section	replace mitered end section	L	BCZ RN 7.jpg
- ' ' - 	300 Gast OI	II/a	John Tourig Farkway	HOLLI SIGE	broken mitered end section	replace filtered cha section		
12	400' east of	n/a	John Young Parkway	north side	Tree limbs too low over sidewalk	trim tree branches	L	ADA RN 85.jpg
								ADA 0:
13	450' east of	n/a	John Young Parkway	EB	Fence falling toward sidewalk	Request owner of fence to repair it	L	ADA rn 9.jpg
1							1 . 1	BCZ RN 8.jpg
14	500' east of	n/a	John Young Parkway	north side	broken mitered end section	replace mitered end section	L	<u> </u>
15	540' east of	n/a	John Young Parkway	north side	pavement edge drop-off around NW corner of shopping center driveway	repair drop-off	L	PAV cl 60.jpg
15	540 east of	II/a	John Young Parkway	north side	pavement edge drop-off around NE corner of	теран игор-он		
16	620' east of	n/a	John Young Parkway	north side	shopping center driveway	repair drop-off	1 1	PAV cl 59.jpg
	020 040101	.,,	oo roung runnuy		y			DOZ DN 51
17	740' east of	n/a	John Young Parkway	north side	broken mitered end section	replace mitered end section	L	BCZ RN 5.jpg
			-		Utility box in NE corner of shopping center driveway			CRM cl 51.jpg
18	800' east of	n/a	John Young Parkway	north side	is littered with graffiti	request utility owner clean box	L	Ortivi of Ortipg
40	0001 t - f	1-	Labor Warran Bankaran		Mitered end section is cracked and blocked with			BCZ cl 26.jpg
19	880' east of	n/a	John Young Parkway	north side	weeds and trash	repair and clean out mitered end section	L	
20	880' east of	n/a	John Young Parkway	north side	pavement edge drop-off	fill in pavement edge drop-off	1 1	PAV cl 58.jpg
	000 003101	11/4	oom roung ranway	HOTHI SIGO	parement sugs drop on	iii iii pavoinoik sags arep en		
21	50' west of	n/a	Grande Central Py	NW corner	pavement edge drop-off around NW corner	fill in pavement edge drop-off	L	PAV cl 57.jpg
			•		· · · · · · · · · · · · · · · · · · ·			ADA RN 83.jpg
22	n/a	n/a	Grande Central Py	NE corner	water ponding	convey runoff to swale	L	ADA_KN_63.jpg
00	501	1	O		Mitered end section is cracked and blocked with	and the said also and the said of the said	.	BCZ cl 56.jpg
23	50' east of	n/a	Grande Central Py	north side	weeds and trash sidewalk drop-off and dirt washed away partially	repair and clean out mitered end section	L	
24	620' west of	n/a	Arpana Drive	north side	under sidewalk	fill under and edge of sidewalk		PED cl 55.jpg
Z+	OZU WESLUI	II/a	Aipalia Diive	HOLLI SIDE	under sidewaik	Roadway lighting will be installed along Americana	-	
i l						from John Young Parkway to Texas Avenue as part		CRM CPC 230.jpg
25 a	approx. 100' west of	n/a	Arpana Drive	both sides	lighting is needed for sidewalk for better visibility	of County's lighting program	М	<u>0.1101_01_0_200.jpg</u>
			, upana zine		gggg violating	request property owner to thin out brush to increase	 	ODM at 54 in
26	60' west of	620' west of	Arpana Drive	north side	dense wooded area adjacent to sidewalk	safety	L	CRM cl 54.jpg
					LYNX bus stop sign is knocked down (bus stop ID			SGN cl 2.jpg
27	west of	n/a	Arpana Drive	EB	2310)	request that LYNX replace sign	L	<u>0014 01 2.jpg</u>

28	west of	n/a	Arpana Drive	EB	Litter around LYNX bus stop ID 2310, no trash can	request that LYNX install trash can	L	CRM_CPC_035.jpg
29	n/a	n/a	Arpana Drive	SW Corner	Inlet curb damage	Repair inlet top	L	PAV_da_5.jpg
30	n/a	n/a	Arpana Drive	NB	Stop sign is too far south of intersection	Relocate stop sign closer to intersection	М	SGN cl 2.jpg
31	770' west of	n/a	Texas Avenue	north side	sidewalk ramp to street is filled with water because of poor water flow to drainage structure	convey runoff to swale and clear drainage structure	L	PED cl 27(2).jpg
32	272' north of	n/a	Texas Avenue	SB	"Americana Bv NEXT SIGNAL" sign has damaged panel	Replace sign	L	SGN kb 7.jpg
33	n/a	n/a	Texas Avenue	NW corner	Signal pole is leaning in toward intersection	Reconstruct signal at the intersection	М	INT_cl_9.jpg
					Signal heads have no backplates and there is high incidence of red light running infractions EB			VIS kb 3.jpg
34	n/a	n/a	Texas Avenue	EB & WB across N	Pavement was patched, covering portion of	Ü	M	PMS kb 2.jpg
35	n/a	n/a	Texas Avenue	and E legs	crosswalk	Replace crosswalk pavement markings	M	
36	n/a	n/a	Texas Avenue	EB & WB	Stop bars are faded.	Refresh stop bars.	M	PMS kb 3.jpg
37	n/a	n/a	Texas Avenue	WB	There is no "Keep Right" sign in median nose	Install "Keep Right" sign	L	SGN_cl_10.jpg
38	n/a	n/a	Texas Avenue	NW	Signal controller cabinet is littered with trash	Clean controller cabinet	L	CRM_km_1.jpg
39	n/a	n/a	Texas Avenue	SE & NW corners	Pedestrian signal push buttons don't work for SW corner crossing Texas and NE corner crossing Americana	Repair broken pedestrian signal pushbuttons	М	
40	west of	n/a	Texas Avenue	EB	Crepe Myrtles block view of pedestrians in SW corner waiting to cross	Remove crepe myrtle trees	М	PED kb 2.jpg
41	west of	n/a	Texas Avenue	EB	Tree branches reduce visibility of lane use sign.	Trim tree branches	-	SGN cl 7.jpg
42	n/a	n/a	Texas Avenue	EB	Loop lead-in is visible on EB approach outside through lane		L	PAV cl 6.jpg
43	n/a	n/a	Texas Avenue	all corners	Pedestrian crossing signs are outdated	gn. Trim tree branches de patch pavement Replace signs with new signal reconstruction Request utility owner to fix the top		SGN_cl_5.jpg
44	n/a	n/a	Texas Avenue	SE corner	Broken top of utility box	Replace signs with new signal reconstruction Request utility owner to fix the top		ADA rn 24.jpg
					Pedestrians are crossing mid-block between trees	Request utility owner to fix the top es consider pedestrian fencing in the median, mid-block		PED cl 11.jpg
45	275' east of	700' east of	Texas Avenue	EB & WB	creating goat path visibility of School Crossing Ahead and Signal	es consider pedestrian fencing in the median, mid-block crossings, and RRFB's		SGN kb 5.jpg
46	370' east of	500' east of	Texas Avenue	WB	Ahead Signs reduced by tree branches LYNX bus shelters (stop IDs 2311 and 2260) are	Trim tree branches Install shelter lighting for security and in accordance	M	
47	east of	n/a	Texas Avenue	EB & WB	not lighted LYNX bus shelters (stop IDs 2311 and 2260) are	with Ordinance No. 2014-06	М	CRM_cl_78.jpg
40			T A	ED 0 14/D	heavily littered even though large trash bins are	Try to organize a community clean-up and educate		CRM_CPC_907.jpg
48	east of	n/a	Texas Avenue	EB & WB	available Randall Grief requested removal of several dead	the public	L	completed before photo
49	Texas Avenue	to	Orange Blossom Trail Americana Plaza Rin/Rout	EB & WB	trees in County right-of-way	Remove dead trees	L	taken
50	n/a	n/a	driveway	SB	stop sign is bent over	request owner to re-set sign	L	SGN cl 50.jpg
51	100' east of	n/a	Chevron driveway Americana Plaza full	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA_cl_19.jpg
52	west of	n/a	driveway	WB	tree branches hang too low over sidewalk	trim tree branches	L	ADA_cl_49.jpg
53	n/a	n/a	Americana Plaza full driveway	WB departure	alignment of road has contributed to drivers hitting NW curb	Provide dashed white guide line across driveway	M	PAV kb 1.jpg
54	n/a	n/a	Americana Plaza full driveway	WB departure	SCHOOL pavement markings are faded	Refresh SCHOOL pavement markings	М	PMS kb 4.jpg
55	just east of	120' east of	Americana Plaza full driveway	WB	shopping center planter is broken in sections spilling mulch into sidewalk	remove mulch and request owner repair planter	L	PED_cl_47.jpg
56	100' east of		Americana Plaza full	WB	. 0	trim tree branches		ADA_cl_48.jpg
		n/a	driveway		tree branches hang too low over sidewalk		L	PED cl 24.ipg
57	90' west of	n/a	San Antonio Avenue	EB	sidewalk drop-off at bus stop Protruding metal post near bus stop bench (bus	fill edge of sidewalk If this is a missing sign, replace sign. If this is a	L	SGN cl 15.jpg
58	west of	n/a	San Antonio Avenue	EB	stop ID 2807) cable is a trip hazard in front of bus bench (bus stop	missing trash can, call LYNX to replace.	L	
59	west of	n/a	San Antonio Avenue	EB	ID 2807)	request utility owner to bury or remove	М	ADA CPC 951.jpg

					Post system in front of hus stop hench (hus stop ID	Cut away roots if possible. If not, consider relocating		
60	west of	n/a	San Antonio Avenue	EB	2807) is a trip hazard and doesn't meet ADA	bus stop 20 feet west.	М	ADA_cl_16.jpg
61	west of	n/a	San Antonio Avenue	EB	Sidewalk drop-off behind bus stop bench (bus stop ID 2807)	fill drop-off	L	ADA_cl_14.jpg
62	west of	n/a	San Antonio Avenue	EB	Tree branches reduce visibility of bus stop sign (bus stop ID 2807).	Trim tree branches	- 1	VIS cl 13.jpg
63	west of	n/a	San Antonio Avenue	EB	Object obstructing sidewalk	Request owner to fix or remove object through Code Enforcement; found it is a PVC pile for electrical wiring for street lights to secure to.	L	ADA_rn_41.jpg
64	west of	n/a	San Antonio Avenue	EB	Tree limbs obstructing sidewalk	Trim tree branches	L	ADA_rn_42.jpg
65	n/a	n/a	San Antonio Avenue	NB approach	No lane use arrow pavement markings; wide enough for 2 cars	Private drive; could request Pointe Vista Apartments add pavement arrows	L	PMS kb 5.jpg
66	n/a	n/a	San Antonio Avenue	NB approach	Crosswalk is in poor condition	Private drive; could request Pointe Vista Apartments refresh crosswalk	L	PMS kb 6.jpg
67	n/a	n/a	San Antonio Avenue	W leg	No marked crosswalk or pedestrian signal for crossing west leg	Add crosswalk, pedestrian signals, and pedestrian refuge in median for this leg	L	PED_kb_4.jpg
68	n/a	n/a	San Antonio Avenue	EB & WB	"Keep Right" signs are missing from the median noses	Install "Keep Right" signs	L	SGN_cl_12.jpg
69	n/a	n/a	San Antonio Avenue	EB & WB	Signal heads have no backplates; E/W approaches	Install reflective border signal head backplates	L	VIS kb 5.jpg
70	n/a	n/a	San Antonio Avenue	WB	Sight distance for signal heads is limited by crepe myrtle trees on north side of road	Trim trees to meet minimum sight distance of 460 ft (MUTCD Table 4D-1) or install "Signal Ahead"	М	VIS kb 6.jpg
10	ıı/a	II/d	San Antonio Avenue	NW and NE	myrue nees on north side of load	(MOTOD Table 4D-1) of Itistall Signal Affead	IVI	fixed before picture was
71	n/a	n/a	San Antonio Avenue	corners	3 underdrain clean-outs are missing caps	Request that Utilities replace caps	L	available
72	n/a	n/a	San Antonio Avenue	SW Corner	underdrain clean-outs located within ramp Reconstruct clean-out structure		L	ADA_rn_34.jpg
70	7/0	nla	Can Antonia Avanua	all corners	As signs become faded or damaged, replace with current sign R10-3i which includes pedestrian		L	SGN_cl_25.jpg
73	n/a	n/a	San Antonio Avenue Pointe Vista Apts	all corners	Pedestrian crossing signs are outdated	current sign R10-3i which includes pedestrian crossing signs are outdated countdown information		
74	n/a	n/a	driveway/San Antonio Ave	NB approach North. East	Signal loop lead-in is exposed	3 3		PAV_cl_30.jpg
75	n/a	n/a	Rio Grande Avenue	& West Legs	Short term: refresh crosswalks. After resurfacing: edestrians crosswalks faded and old standard upgrade to high-emphasis crosswalks.		М	PMS_kb_8.jpg
70	,	,	D: 0	0111.0	B 1 1 1 B 11 11 11 11 11	Relocate to same side as crossing and closer to		PED kb 5.jpg
76	n/a	n/a	Rio Grande Avenue	SW Corner SB	Pedestrian Button difficult to get to	ramp Private drive; consider asking property owner to	L	
77	n/a	n/a	Rio Grande Avenue	approach	Crosswalk and stop bar are in poor condition large rut in edge of curb where trucks/busses have	refresh crosswalk repair rutted area; consider restriping 10' approach	L	PMS_kb_7.jpg
78	n/a	n/a	Rio Grande Avenue	SW corner	left the pavement	lanes NB to increase width for EBR turning vehicles	М	<u>INT_kb_1.jpg</u>
79	n/a	n/a	Rio Grande Avenue	EB approach	No left turn lane into apartments	Investigate installation of an EBL turn lane; TMC's were taken and turn lane found to not be needed	L	INT kb 3.jpg
80	n/a	n/a	Rio Grande Avenue	NE corner	water is collecting at bottom of pedestrian curb ramp	convey water to inlet	L	PED_cl_43.jpg
81	n/a	n/a	Rio Grande Avenue	all corners	Pedestrian crossing signs are outdated	As signs become faded or damaged, replace with current sign R10-3i which includes pedestrian countdown information		SGN cl 44.jpg
82	n/a	n/a	Rio Grande Avenue	SW corner	Tree limbs too low over sidewalk	trim tree branches	L	ADA_RN_60.jpg
83	20' east of	30' east of	Rio Grande Avenue	WB	sidewalk drop-off	fill edge of sidewalk	L	PED_cl_41.jpg
84	east of	n/a	Rio Grande Avenue	WB	sidewalk drop-off near utility box	fill edge of sidewalk	L	PED cl 36.jpg
85	east of	n/a	Rio Grande Avenue	WB	sidewalk drop-off	fill edge of sidewalk	L	PED cl 39.jpg
86	300' east of	n/a	Rio Grande Avenue	SB	Stop sign exiting Grandview Apartments is bent over	request that owner reset sign	L	SGN_cl_38.jpg
87	575' east of	n/a	Rio Grande Avenue	SB	Stop sign exiting Grandview Apartments is bent over	request that owner reset sign	L	SGN_cl_37.jpg
88	approx. 750' east of	n/a	Rio Grande Avenue	WB	Large utility boxes need painting; request by Randall Grief, OBTDB	request that utility owner repaint utility boxes	L	CRM cl 63.jpg
89	west of	n/a	Orange Blossom Trail	WB	At 7-II driveway, payment around radius return is crumbling	Repair pavement or install curb	L	PAV cl 18.jpg
90	west of	n/a	Orange Blossom Trail	WB	West of 7-11 driveway, tree limbs obstructing sidewalk	Trim tree branches	L	ADA rn 47.jpg

				1				
					concrete planter is breaking apart and tree is	remove or rebuild planter; remove tree. Referred to		PED cl 35(2).jpg
91	west of	n/a	Orange Blossom Trail	WB	leaning and pushing wall - hazard to pedestrians	Code Enforcement	М	1 ED_01_00(2),jpg
					East of 7-11 driveway, tree limbs obstructing			ADA RN 62.jpg
92	west of	n/a	Orange Blossom Trail	WB	sidewalk	Trim tree branches	L	ADA_KN_02.jpg
					drainage outfall near 7-11 is unsafe for pedestrians			BCZ CPC 500.jpg
93	approx. 200' west of	n/a	Orange Blossom Trail	EB	near apartment complex	Install pedestrian handrail or otherwise shield	M	BCZ CPC 500.jpg
								DAV/ do 4/2) ind
94	100' west of	n/a	Orange Blossom Trail	EB approach	Curb holding water	Continue curb with apron	L	PAV da 4(2).jpg
								PMS kb 10.jpg
95	50' west of	n/a	Orange Blossom Trail	EB	Arrow Lane Designations worn and faded	Refresh Pavement Markings	L	
		,			3	and faded Refresh Pavement Markings W approaches Install reflective border signal head backplates Could not just trim trees; they would have to be		
96	n/a	n/a	Orange Blossom Trail	EB approach	Signal heads have no backplates; E/W approaches	Install reflective border signal head backplates	М	<u>VIS kb 7.jpg</u>
	·	•	3		7 1	ÿ i		
					Two sets of route assemblies are not visible	removed. Request FDOT re-locate signs in front of		SGN kb 1.jpg
97	n/a	n/a	Orange Blossom Trail	EB approach		trees.	1	<u>OOI1_Rb_1.jpg</u>
31	11/4	II/a	Crange blossom mail	сь арргоасті	EB turning vehicles observed to not yield to	tices.		
98	n/a	n/a	Orange Blossom Trail	EB approach	,	Install "Turning Vehicles Yield to Pedestrians" sign	М	PED cl 76.jpg
- 30	11/a	II/a	Crange blossom mail	сь арргоасті	Sidewalks on both sides of the road do not connect	Extend Americana sidewalks to OBT (approx. 150'	IVI	
99	n/a	west of	Orange Blossom Trail	West lea	to OBT sidewalks	on north side; 30' on south side)		PED kb 6.jpg
99	II/a	West of	Orange blossom Trail	westieg	to OBT Sidewalks	As signs become faded or damaged, replace with	L	
								0001 -1 04 5
	,					current sign R10-3i which includes pedestrian		SGN cl 31.jpg
100	n/a	n/a	Orange Blossom Trail	all corners	Pedestrian crossing signs are outdated	countdown information	L	
						Consider adding paved bike lane in rural section		
						west of Texas Ave and restriping wide outside curb		PED cl 77.jpg
						lane east of Texas at time of resurfacing. Or		r ED OF FF.Jpg
101	John Young Pkwy	OBT	n/a	EB & WB	no shoulder or bike lane	investigate constructing multi-use path.	L	

Americana Boulevard

Sidewalk and ADA Issues

No.	From	То	Cross Street	Direction	Problem	Solution	Severity (L, M, H)	Photo Name
1	n/a	n/a	John Young Parkway	SW Corner	Stamped Concrete ramp faded	Replace with Standard Truncated dome mats	1	ADA kb 2.jpg
2	n/a	n/a	John Young Parkway	SE corner	Ramp out of tolerance	Construct sidewalk that meets ADA standards		ADA rn 1.jpg
	·				'		L	ADA cl 71.jpg
3	15' east of	n/a	John Young Parkway	north side	sidewalk running slope is much steeper than road	Construct sidewalk that meets ADA standards	L	ADA cl 72.jpg
4	107' east of	n/a	John Young Parkway	north side	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	
5	133' east of	n/a	John Young Parkway	north side	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA cl 73.jpg
6	162' east of	n/a	John Young Parkway	north side	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_cl_74.jpg
7	200' east of	n/a	John Young Parkway	EB	Broken sidewalk	Repair sidewalk panel	L	ADA_rn_3.jpg
8	300' east of	n/a	John Young Parkway	EB	Broken sidewalk	Repair sidewalk panel	L	ADA rn 6.jpg
9	800' east of	n/a	John Young Parkway	south side	broken sidewalk	repair sidewalk	L	PED cl 75.jpg
10	John Young Pkwy	Texas Ave	n/a	south side	Utility poles located in sidewalk. Some reduce PAR to less than 4'.	construct sidewalk around utility poles	L	ADA RN 8.jpg
11	n/a	n/a	Grand Central Py	EB	Grade from sidewalk to bus stop bench is too steep. (bus stop ID 2309)	Construct ADA-compliant connection from sidewalk to bus stop	ı	ADA_cl_1.jpg
12	west of	n/a	Arpana Drive	EB & WB	Sidewalk meeting pavement with no truncated dome mates	Install truncated dome mats	_	ADA rn 17.jpg
			'			construct sidewalk connection closer to intersection	L	PED cl 4.ipq
13	n/a	n/a	Arpana Drive	EB	Pedestrian crossing too far south of intersection Truncated domes do not exist or are worn down on	and add a crosswalk	M	ADA kb 1.jpg
14	n/a	n/a	Texas Avenue	all corners	concrete.	Replace with truncated dome mats.	L	
15	n/a	n/a	Texas Avenue	all corners	Ramps out of tolerance	Construct sidewalk ramps that meets ADA standards	L	ADA_rn_23.jpg
16	100' east of	n/a	Chevron driveway	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_cl_20.jpg
17	150' east of	n/a	Chevron driveway	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA cl 21.jpg
18	120' west of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA cl 22.jpg
19	90' west of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_cl_23.jpg
20	n/a	n/a	San Antonio Avenue	NE corner	ADA ramp and curb repair	Repair and bring up to standard	L	ADA da 2.jpg
21	n/a	n/a	San Antonio Avenue	NW, SW, SE corners	Ramps out of tolerance and no truncated dome mats	Construct sidewalk ramps that meets ADA standards	L	ADA rn 33.jpg
22	n/a	n/a	San Antonio Avenue	SE corner	Sidewalk curb ramp does not line up with crosswalk crossing Americana	Expand curb ramp to line up with both crosswalks	ı	PED cl 17.jpg
23	n/a	n/a	San Antonio Avenue	NW corner	ÿ	Construct 6-foot sidewalk north on San Antonio Avenue for distance adjacent to curb	_	ADA rn 44.jpg
					Sidewalk width is 5-ft adjacent to curb	,	. L	ADA cl 32.jpg
24	40' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA cl 33.jpg
25	70' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	
26	86' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA RN 53.jpg
27	130' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_RN_54.jpg
28	170' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_RN_55.jpg

					,	,		
29	350' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_RN_56.jpg
30	380' east of	n/a	San Antonio Avenue	EB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_RN_57.jpg
31	200' west of	n/a	Rio Grande Avenue	WB	Sidewalk concrete is deteriorating	replace sidewalk panel	L	ADA RN 68.jpg
32	n/a	n/a	Rio Grande Avenue	median	Ramp out of tolerance and no truncated dome mats	Construct sidewalk ramps that meets ADA standards	L	ADA_rn_48.jpg
33	n/a	n/a	Rio Grande Avenue	SE corner	Ramp out of tolerance and no truncated dome mats	Construct sidewalk ramps that meets ADA standards	L	ADA RN 59.jpg
34	just east of	n/a	Rio Grande Avenue	WB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA_cl_42.jpg
35	90' east of	n/a	Rio Grande Avenue	WB	cracked sidewalk panel	repair sidewalk	L	PED cl 40.jpg
36	800' east of	n/a	Rio Grande Avenue	WB	sidewalk vertical discontinuity - trip hazard	repair sidewalk	L	ADA cl 34.jpg
37	1100' west of	n/a	Orange Blossom Trail	EB	Ramps at FDOT pond driveway out of tolerance	Construct sidewalk ramps that meets ADA standards	L	ADA RN 61.jpg
38	west of	n/a	Orange Blossom Trail	WB	West of 7-11 driveway, silt within sidewalk	Construct barrier to prevent silt from flowing toward sidewalk	L	ADA_rn_46.jpg

B. Texas Avenue

Existing Conditions

Texas Avenue is a two-lane undivided roadway running north-south from Oak Ridge Road to Rio Grande Avenue. The cross section is rural from Oak Ridge Road to Duskin Avenue and urban from Duskin Avenue to Americana Boulevard. North of Americana Boulevard the roadway has a rural cross section, but curb and gutter begins again north of Honour Road through Rio Grande Avenue. Texas Avenue serves residential uses including single family homes, apartments, and condominiums. The speed limit is 35 mph throughout.

Sidewalk exists on both sides of the road between Oak Ridge Road and Americana Boulevard, but gaps exist north of Americana Boulevard as detailed on page 8. No bike lanes are provided.

Overhead utilities exist on the west side of the road between Oak Ridge Road and Holden Avenue. Roadway lighting currently exists on the west side of the road from north of Duskin Avenue to Honour Road.

Crash History and Analysis

Crash summaries and crash diagrams were prepared and follow for the key study intersections along Texas Avenue. These are the intersections of Texas Avenue with Oak Ridge Road, Honour Road, Holden Avenue, and Rio Grande Avenue. Crash summaries and diagrams for the intersection of Texas Avenue with Americana Boulevard can be found under the Americana Boulevard section of this report. Because of the high number of crashes at the intersection of Texas Avenue with Oak Ridge Road, the crash summary and crash diagram for this intersection depict crashes for only one year of data (2013). For the other intersections crashes for three years are included (2011-2013).

Of particular note and as previously shown in Table 4, the intersection of Texas Avenue with Oak Ridge Road has a high crash rate at 2.411036 crashes per million entering vehicles. This intersection is also a red light running enforcement intersection.

In addition, a high percentage of crashes (47%) at the intersection of Texas Avenue at Honour Road are left turn or right angle crashes.

Recommended Countermeasures

The following tables list the recommended improvements for Texas Avenue. The first table lists the general recommendations and the second table lists sidewalk and ADA-related issues.

There are several items believed to be a high priority along Texas Avenue. Some of these have already been addressed. Tree branches have been trimmed around the school flasher for Palmetto Elementary School and a large pavement edge drop-off just south of Honour Road has been repaired. A gap in the fencing surrounding the canal at Wakulla has been closed with new fencing to protect pedestrians.

In investigating possible causes of the left turn and right angle crashes at the intersection of Texas Avenue and Honour Road, it was observed that there is reduced sight distance on Honour Road at the stop bar. It is recommended that the stop bar be moved forward to increase visibility around the wall in the southeast corner. A crosswalk is also recommended to be installed to both serve the high volume of pedestrians and also to emphasize the stop condition, as drivers ran the stop sign in 26% of the crashes.

The intersection of Texas Avenue and Rio Grande Avenue is severely offset in the westbound direction. Although only one head-on crash occurred at the intersection and the westbound volume is very low, head-on crashes tend to be severe. A missing "Keep Right" sign was replaced in the median westbound and a yellow guideline was installed across the intersection to guide drivers to the appropriate lane westbound. The feasibility of correcting or reducing this offset will be studied as part of a future intersection improvement project described under Capital Improvements.

Due to the high crash rate at the intersection of Texas Avenue at Oak Ridge Road, the number of pedestrian crashes on Oak Ridge Road in the vicinity of Texas Avenue, and the age of the existing signal, the signal at this intersection is recommended to be reconstructed. As part of this reconstruction, the sidewalks and curb ramps will be brought into compliance with ADA. The median nose for the northbound approach will be modified to allow a full crosswalk across the south leg. The pedestrian signal pushbuttons in the northwest corner will be brought closer to the sidewalk ramps, and sidewalk and curb ramps will be installed in the NE corner of the intersection.

Four-section signal heads will be considered for the left turn lanes instead of the current five-section cluster signal heads. These signal heads have been shown to increase safety by improving yielding to oncoming vehicles by vehicles turning left permissively. These signal heads also allow flexibility in timing protected and/or permitted left turns by time of day. Protected-only signal phasing increases congestion, but has been shown to reduce left turn crashes and left turn pedestrian crashes by reducing conflict points. In order to address the high incidence of crashes and red light running at the intersection, with the reconstruction of this intersection signal head backplates will be installed to increase the visibility of signal head indications in the eastbound and westbound directions.

						С	rash Sumn	nary			
Locatio	n:	TEXAS AV	'ENUE				Intersectio	n Control:	Signalized		
Interse	cting Route:	OAK RIDG	SE ROAD				Prepared b	y: CNL	_		
Study F	Period From:	2013					County:	Orange			
							PROPERTY				
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	1/8/2013	Tue	11:55 AM	Rear End	No	No	\$3,500	Clear	Daylight	Careless Driving	FHPD130FF002083
2	2/9/2013	Sat	4:49 PM	Angle	No	No	\$8,500	Clear	Daylight	Ran Stop Sign	FHPD130FF010970
3	2/17/2013	Sun	10:00 PM	Sideswipe	No	No	\$1,000	Clear	Dusk	Unknown	FHPD130FF013431
4	2/20/2013	Wed	9:15 PM	Right Turn	No	No	\$4,500	Clear	Dark - Lighted	Fail to Obey Signal	FHPD130FF014223
5	2/22/2013	Fri	12:01 PM	Left Turn	No	Yes	\$13,200	Clear	Daylight	FTY R/W	FHPD130FF014635
6	3/2/2013	Sat	5:25 PM	Sideswipe	No	No	\$3,000	Clear	Daylight	Unkown	FHPD130FF017326
7	3/7/2013	Thu	9:21 AM	Angle	No	Yes	\$8,000	Clear	Daylight	FTY R/W	FHPD130FF018606
8	3/16/2013	Sat	4:36 PM	Angle	No	No	\$3,300	Clear	Daylight	Ran Stop Sign	FHPD13OFF021661
9	3/28/2013	Thu	6:59 AM	Unknown	No	No	\$1,200	Clear	Dark - Lighted	Unknown	FHPD13OFF025212
10	4/18/2013	Thu			No	No	\$0	Clear	Daylight	Unknown	FHPD13OFF031824
11	5/8/2013	Wed	2:40 PM	Bicycle	No	Yes	\$250	Clear	Daylight	FTY R/W	FHPD13OFF037917
12	5/18/2013	Sat	11:01 PM	Sideswipe	No	No	\$1,000	Clear	Dark - Lighted	Unknown	FHPD130FF041101
13	5/28/2013	Tue	2:13 PM	Angle	No	No	\$1,500	Clear	Daylight	Unknown	FHPD13OFF044052
14	6/18/2013	Tue	4:55 PM	Left Turn	No	No	\$2,500	Clear	Daylight	Unknown	FHPD13OFF050842
15	6/22/2013	Sat	12:07 PM	Rear End	No	Yes	\$300	Clear	Daylight	Careless Driving	FHPD13OFF052118
16	7/16/2013	Tue		Left Turn	No	No	\$7,000	Cloudy	Dark - Not Lighted	Unknown	FHPD13OFF060070
17	7/22/2013	Mon	6:20 PM	Angle	No	No	\$10,500	Cloudy	Daylight	FTY R/W	FHPD13OFF061981
18	7/28/2013	Sun	11:44 AM	Rear End	No	No	\$1,600	Clear	Daylight	Careless Driving	FHPD13OFF063742
19	8/4/2013	Sun	4:30 PM	Left Turn	No	No	\$9,000	Clear	Daylight	FTY R/W	FHPD13OFF066127
20	8/6/2013	Tue	1:35 PM	Left Turn	No	Yes	\$3,200	Clear	Daylight	Careless Driving	FHPD13OFF066693
21	8/8/2013	Thu		Rear End	No	No	\$3,500	Clear	Dark - Lighted	Careless Driving	FHPD130FF067511
22	9/12/2013	Thu	1:11 PM	Other	No	No	\$2,000	Clear	Daylight	Unknown	FHPD130FF078498
23	9/21/2013	Sat	2:33 AM	Pedestrian	No	Yes	\$0	Clear	Dark - Lighted	Unknown	FHPD13OFF081169
24	9/26/2013	Thu	6:00 PM	Other	No	No	\$3,200	Clear	Dusk	Improper Backing	FHPD130FF082880
25	9/29/2013	Sun	1:40 PM	Sideswipe	No	No	\$2,000	Clear	Daylight	Unknown	FHPD13OFF083735
26	10/10/2013	Thu	7:52 AM	Rear End	No	Yes	\$4,000	Clear	Daylight	Careless Driving	FHPD13OFF086838
27	10/12/2013	Sat	6:46 AM	Rear End	No	Yes	\$12,000	Clear	Dark - Lighted	Careless Driving	FHPD13OFF087482
28	10/23/2013	Wed	7:21 PM	Left Turn	No	Yes	\$9,000	Cloudy	Dark - Lighted	Unknown	FHPD13OFF090884
29	11/4/2013	Mon	7:44 AM	Off Road	No	No	\$40,000	Clear	Daylight	Careless Driving	FHPD130FF094313
30	12/15/2013	Sun	6:10 PM	Off Road	No	No	\$4,200	Clear	Dark - Lighted	Careless Driving	FHPD130FF106903
TOTAL											
											IMPROPER LANE
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
	30	0		2	5	6	1	7	4		(
	%	0%	30%	70	17%	20%	3%	23%	13%	0	0
											FAIL TO OBEY
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGH	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL
	2	2	19	1	0	30	0	5	1	g	-
	7%	7%	63%	37	0	100%	0%	17%	3%	30%	3

LOCATION: Texas Avenue at Oak Ridge Road YEAR: 2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



FIXED OBJECT
OUT OF CONTROL
SIDE SWIPE
PEDESTRIAN COLLISION
BICYCLIST COLLISION

* Numbers that appear multiple times indicate more than one collision in that incident.

		CRASH SUMMAR	Υ									
	PROP. DMG ONLY INJURY FATAL TOTAL											
DAYTIME	13	6	0	19								
NIGHTTIME	8	3	0	11								
TOTAL	21	9	0	30								

						Cr	ash Summ	arv			
Location	า:	TEXAS AV	'ENUE						3-way stop		
Intersec	ting Route:	HONOUR	ROAD				Prepared b	ov:	CNL		
Study Pe	eriod From:	2011 - 20	13				· ·	Orange			
							PROPERTY				
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	2/22/2011		5:59 PM	Other	No	No		Clear	Dusk	Out of Control	FHPD110FF014817
2	3/14/2011		12:14 AM	Rear End	No	No		Clear	Dark - Lighted	Careless Driving	FHPD11OFF020857
3	3/29/2011			Rear End	No	Yes	,,	Clear	Dark - Lighted	Careless Driving	FHPD11OFF025950
4	6/8/2011	Wed	2:52 PM	Bicycle	No	No	\$50	Clear	Daylight	Ran stop sign	FHPD11OFF046821
5	6/20/2011	Mon	9:48 PM	Left Turn	No	No	\$1,000	Clear	Dark - Lighted	Careless Driving	FHPD11OFF050471
6	8/19/2011	Fri	4:19 PM	Left Turn	No	No	\$20,000	Clear	Daylight	Fail to Yield ROW	FHPD11OFF068770
7	8/22/2011	Mon	6:53 AM	Off Road	No	Yes	\$3,500	Clear	Dusk	Driver Sick	FHPD11OFF069547
					_					Ran stop sign/Fail to	
8	10/18/2011	Tue	2:57 AM	Left Turn	No	No	\$2,500	Clear	Dark - Lighted	Yield ROW	FHPD11OFF086656
9	7/15/2012	Sun	11:30 PM	Rear End	No	No	\$800	Clear	Dark - Lighted	Careless Driving	FHPD12OFF060162
10	10/6/2012	Sat	4:05 PM	Rear End	No	No	\$750	Clear	Daylight	Careless Driving	FHPD12OFF085879
11	3/26/2013	Tue	7:58 PM	Left Turn	No	No	\$4,000	Clear	Dark - Lighted	Failure to Stop	FHPD13OFF024831
12	5/2/2013	Thu	10:31 PM	Left Turn	No	No	\$3,000	Cloudy	Dark - Lighted	Fail to Yield ROW	FHPD13OFF036220
13	5/7/2013	Tue	9:43 AM	Left Turn	No	Yes	\$7,000	Clear	Daylight	Ran stop sign	FHPD13OFF037575
14	5/24/2013	Fri	10:04 PM	Left Turn	No	No	\$2,500	Clear	Dark - Lighted	Ran stop sign	FHPD13OFF042966
15	7/30/2013		7:00 AM	Left Turn	No	No	\$2,000	Clear	Daylight	Fail to Yield ROW	FHPD13OFF064308
16	9/20/2013	Fri	7:42 AM	Rear End	No	No	\$2,300	Clear	Daylight	Careless Driving	FHPD13OFF080863
17	12/6/2013	Fri	11:35 PM	Other	No	No	\$2,000	Clear	Dark - Not Lighted	Careless Driving	FHPD13OFF104253
18	12/19/2013	Thu	2:08 PM	Angle	No	No	\$10,600	Clear	Daylight	Ran stop sign	FHPD13OFF108069
19	12/20/2013	Fri	6:35 AM	Rear End	No	No	\$10,000	Clear	Daylight	Careless Driving	FHPD13OFF108261
										_	
TOTAL											
											IMPROPER LANE
TOTAL N	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
	19	0		1	1	8	0	6	0	0	
	%	0%	16%	84	5%	42%	0%	32%	0%	0%	
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING		ALCOHOL/DRUGS	DISTRACTED	RAN STOP SIGN
	1	1	8	11	0	19	0	4	0	9	
	5%	5%	42%	58%	0%	100%	0%	21%	0%	47%	

LOCATION: Texas Avenue at Honour Avenue YEAR: 2011-2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



$CR\Delta$	L2	Q1	INAN	Λ	PV

	CRASH SUIVINAR I									
	PROP. DMG ONLY	INJURY	FATAL	TOTAL						
DAYTIME	10	0	0	10						
NIGHTTIME	9	0	0	9						
TOTAL	19	0	0	19						

						Cr	ash Summ	ary				\neg
Locatio	n:	TEXAS AV	ENUE				Intersection	n Control:	Signalized			
Interse	cting Route:	HOLDEN A	AVENUE				Prepared b	y: CNL				
Study P	Period From:	2011 - 20	13				County: Orange					
							PROPERTY					
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT	#
1	1/1/2011	Sat	8:50 AM	Off Road	No	No	\$5,000	Clear	Daylight	Unknown	FHPD110FF00007	9
										Excessive Speed/		
2		Sun	1:30 PM		No	No	\$3,000		Daylight	Reckless Driving	FHPD11OFF06077	
3	-, , -	Tue		Rear End	No	Yes	\$900	Cloudy	Dusk	Careless Driving	FHPD11OFF06360	
4	12/9/2011	Fri	1:25 PM		No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD110FF10177	_
5	2/25/2012	Sat	2:30 AM		No	No	\$850	Clear	Dawn	Unknown	FHPD12OFF01559	5
6		Sun		Rear End	No	Yes	\$400	Clear	Daylight	Careless Driving	FHPD12OFF05578	_
7	7/28/2012	Sat	12:44 AM		No	No	\$28,000	Clear	Dark - Not Lighted	DUI	FHPD12OFF06382	_
8	-, , -	Sat	6:39 PM		No	No	\$3,900	Clear	Daylight	Careless Driving	FHPD12OFF06626	0
9	11/5/2012	Mon	11:11 PM	Rear End	No	No	\$1,500	Clear	Dark - Not Lighted	Unknown	FHPD12OFF09500	4
10	1/14/2013	Mon	1:50 PM	Rear End	No	No	\$3,000	Clear	Daylight	Careless Driving	FHPD130FF00385	,9
11	3/17/2013	Sun	4:00 PM	Rear End	No	No	\$6,000	Clear	Daylight	Careless Driving	FHPD13OFF02196	7
12	6/13/2013	Thu	2:48 PM	Rear End	No	No	\$4,300	Clear	Daylight	Careless Driving	FHPD130FF04921	.7
13	6/23/2013	Sun	2:12 PM	Rear End	No	No	\$5,100	Rain	Daylight	Careless Driving	FHPD13OFF05246	1
										Failed to Use Due Care		
14	9/25/2013	Wed	7:50 PM	Pedestrian	No	No	\$100	Clear	Dark - Not Lighted	Toward Pedestrian	FHPD13OFF08259	5
15	10/5/2013	Sat	8:01 PM	Pedestrian	No	Yes	\$0	Clear	Dark - Not Lighted	Careless Driving	FHPD13OFF08559	6
										Bike Failed to Ride Righ		
16	10/23/2013	Wed	8:16 PM	Bicycle	No	Yes	\$550	Clear	Dark - Lighted	Curb	FHPD13OFF09089	9
17	12/1/2013	Sun	5:45 PM	Rear End	No	Yes	\$1,600	Cloudy	Dusk	Careless Driving	FHPD130FF10271	.6
												_
												_
TOTAL												
											IMPROPER LANE	
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE	
	17	0	5	12	1	0						0
	%	0%	29%	71%	6%	0%	0%			0%		0%
		2,0		. =/0	2,0		270	2270	0,0	3,0	FAIL TO OBEY	Ť
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL	
7	3	3	9	8	1	16	1	0		7		0
	18%	18%	53%	47%	6%	94%	6%			<u> </u>	,	0%
	1070	1370	3370	.,,,	370	3 .70	370	370	0,0	1 11/0		- / '

LOCATION: Texas Avenue at Holden Avenue YEAR: 2011-2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



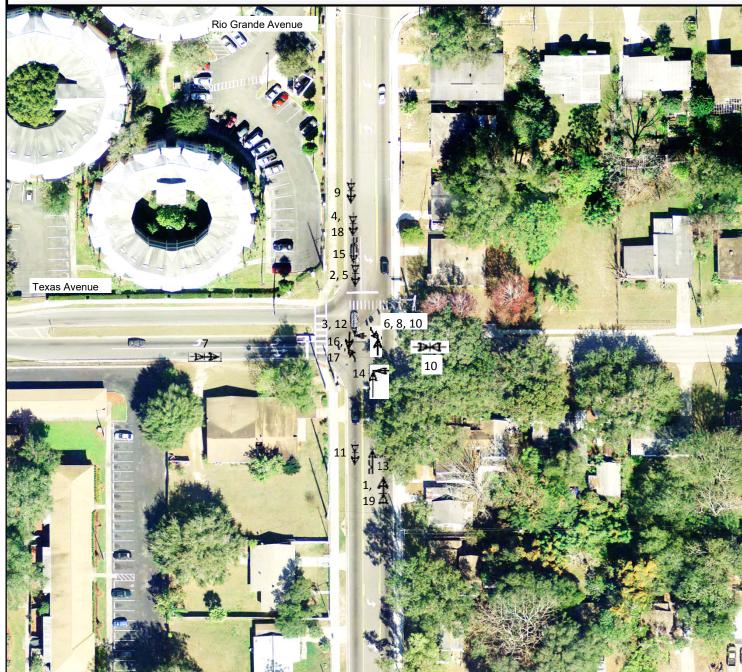
REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



			• •	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	8	1	0	9
NIGHTTIME	4	4	0	8
TOTAL	12	5	0	17

							Crash Sumr	mary			
Locatio	ın.	TEXAS AV	/FNI IF					n Control:	Signalized		
	cting Route:		ANDE AVEN	ILIE			Prepared b		Signanzeu		
	Period From:	2011 - 20		IOL			County:	Orange			
Study	CHOUTTOIN.	2011 20	13				PROPERTY	Orunge			
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	2/15/2011	Tue	2:50 PM	Rear End	No	Yes	\$125	Clear	Daylight	Careless Driving	FHPD110FF012513
2	3/8/2011	Tue	6:21 PM	Rear End	No	No	\$500	Clear	Dark - Not Lighted	Unknown	FHPD110FF019093
3	4/21/2011	Thu	12:19 PM	Angle	No	Yes	\$550	Clear	Daylight	Fail to Obey Signal	FHPD110FF032768
4	4/26/2011	Tue	10:31 PM	Rear End	No	No	\$2,500	Clear	Dark - Not Lighted	Careless Driving	FHPD110FF034473
5	10/3/2011	Mon	9:00 AM	Rear End	No	No	\$50	Clear	Daylight	Unknown	FHPD110FF082130
6	4/9/2012	Mon	8:40 PM	Left Turn	No	No	\$7,000	Clear	Dark - Not Lighted	FTY ROW	FHPD12OFF030194
7	5/16/2012	Wed	11:25 AM	Rear End	No	No	\$350	Cloudy	Daylight	Careless Driving	FHPD12OFF041032
8	5/17/2012	Thu	4:04 AM	Left Turn	No	No	\$7,000	Cloudy	Dark - Lighted	FTY ROW	FHPD12OFF041314
9	5/17/2012	Thu	5:19 PM	Rear End	No	Yes	\$250	Clear	Daylight	Careless Driving	FHPD12OFF041545
	Left Turn/										
10	0 9/18/2012 Tue 3:25 PM Head On No Yes \$13,500 Rain Daylight FTY ROW					FHPD12OFF080071					
11	12/27/2012	Thu	4:45 PM	Rear End	No	No	\$3,100	Clear	Daylight	Careless Driving	FHPD12OFF110210
12	2/13/2013	Wed	2:10 AM	Other	No	Yes	\$2,000	Clear	Dark - Lighted	Prohibited U-turn	FHPD13OFF011886
13	3/19/2013	Tue	5:56 PM	Sideswipe	No	No	\$1,900	Clear	Daylight	Improper Lane Change	FHPD13OFF022620
14	6/9/2013	Sun	11:45 AM	Angle	No	No	\$1,500	Clear	Daylight	Fail to Obey Signal	FHPD13OFF047937
15	7/6/2013	Sat	10:35 PM	Sideswipe	No	No	\$3,000	Clear	Dark - Lighted	Unknown	FHPD13OFF056873
16	9/8/2013	Sun	7:38 PM	Left Turn	No	Yes	\$12,000	Clear	Dusk	FTY ROW	FHPD13OFF077424
17	10/5/2013	Sat	11:03 PM	Left Turn	No	No	\$4,500	Clear	Dark - Lighted	FTY ROW	FHPD13OFF085631
18	10/19/2013	Sat	5:48 PM	Rear End	No	No	\$2,500	Clear	Daylight	Careless Driving	FHPD13OFF089694
19	10/23/2013	Wed	6:00 AM	Rear End	No	No	\$2,500	Rain	Dark - Lighted	Careless Driving	FHPD13OFF090656
TOTAL											
TOTAL	L										IMPROPER LANE
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
TOTAL	19	FATAL 0	1NJURY 6	_	ANGLE 2	5	RIGHT 0	REAR END			CHANGE 1
	19 %	0%	32%		11%	26%	0%	47%	11%	5%	5%
	1 %	0%	32%	06%	11%	20%	0%	4/%	1170	3%	FAIL TO OBEY
ONE VE	EHICI E	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL
OIVE VE	0	0	10	·	2	17	0	5	0	9	
	0%	0%	53%		11%	89%	0%	26%		47%	11%
	370	070	3370	1,70	11/0	0370	L 570	2070	1 0/0	1 47/0	1 170

LOCATION: Texas Avenue at Rio Grande Avenue YEAR: 2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION
HEAD-ON COLLISION
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLSION



CRASH	I S I	INAN	Λ	RY
	ıot	JIVIII	$^{\prime\prime}$	

		• • • • • • • • • • • • • • • • • • • •		
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	6	4	0	10
NIGHTTIME	7	2	0	9
TOTAL	13	6	0	19

Texas Avenue

General

NI-	F	T -	0	Discretions	Problem.	Outsiden	Severity	Dhata Nasa
No.	From	То	Cross Street	Direction	Problem The driveway for the Chinese restaurant is too	Solution	(L, M, H)	Photo Name
1	50' east of	n/a	Texas Avenue	WB	close to the intersection.	Consider closing driveway; other access is available	М	INT cl 100.jpg
2	n/a	n/a	Oak Ridge Road	all	signal poles are short, minimizing vertical clearance. Signal is showing signs of age.	Reconstruct signal	М	
3	n/a	n/a	Oak Ridge Road	SW corner	crosswalk pavement markings faded for crossing west leg	refresh pavement markings	L	PMS cl 103.jpg
4	n/a	n/a	Oak Ridge Road	NW corner	Pedestrian push button too far (30') from curb ramp	Install separate pedestrian pushbutton on post with signal reconstruction	L	PED cl 104.jpg
5	n/a	n/a	Oak Ridge Road	NB	Lots of litter found on the street	Try to organize a Community Clean-up	L	CRM CPC 213.jpg
6	approx. 175'	north of	Oak Ridge Road	east side	commercial driveway has potholes and needs maintenance	request that property owner maintain driveway	L	BCZ RN 15.jpg
7	approx. 350'	south of	Wakulla Way	east side	palm tree protruding over sidewalk	Trim tree branches	L	ADA CPC 145.jpg
8	south of	n/a	Wakulla Way	NB	Tree branches reduce visibility of pedestrian crossing ahead sign	Trim tree branches	М	SGN cl 105.jpg
9	n/a	n/a	Wakulla Way	SW corner	canal is shielded by guardrail along Wakulla, but only by chain link fence along Texas	investigate the possibility of shielding the canal along Texas	М	BCZ cl 191.jpg
10	n/a	n/a	Wakulla Way	SW corner	chain link fence leaves gap to canal at sidewalk	close gap	Н	BCZ cl 192.jpg
11	n/a	n/a	Wakulla Way	SW corner	trees are overgrown; CEPTED	Trim tree branches	М	CRM CPC 423.jpg
12	n/a	n/a	Wakulla Way	west and east sides	No marked crosswalks crossing Wakulla Way	install marked crosswalk both sides of Texas	L	PMS RN 2.jpg
13	n/a	n/a	Texas Avenue	EB & WB approaches	Need to emphasize stop condition on intersection of two 2-lane roadways	install stop bars on both eastbound and westbound approaches	L	PMS RN 1.jpg
14	n/a	n/a	Pineway Drive	NE corner	crumbling pavement and drop-off	repair pavement	L	BCZ RN 14.jpg
15	n/a	n/a	Pineway Drive	west and east sides	No marked crosswalks crossing Pineway Drive	install marked crosswalk both sides of Texas	L	PMS RN 5.jpg
16	n/a	n/a	Rose Avenue	NE corner	Headwall within clear zone	Consider adding concrete and mitered end section	М	BCZ RN 11.jpg
17	n/a	n/a	Rose Avenue	NE corner	Pedestrian hazard with ditch on the side	Review criteria for pedestrian handrail	L	ADA RN 96.jpg
18	just north of	n/a	Rose Avenue	NE corner	Pipe without end treatment	Reconstruct with end treatment	М	ADA RN 148.jpg
19	just east of	n/a	Texas Avenue	north side	Sidewalk is blocked by tree branches fallen from dead tree	Clear sidewalk. Request property owner to remove dead tree.	L	ADA cl 106.jpg
20	just north of	n/a	Blossom Terrace	NB	Tree branches reduce visibility of school flasher	Trim tree branches	Н	PED cl 107.jpg
21	approx. 120' south of	n/a	Blossom Terrace	SB	Overgrown tree near sidewalk, CEPTED	Request property owner to trim or remove tree	М	CRM CPC 920.jpg
22	n/a	n/a	Blossom Terrace	NE corner	hole adjacent to road	fill hole	L	BCZ RN 13.jpg
23	n/a	n/a	Blossom Terrace	NE corner	street name signs in poor condition	Replace street name signs	L	SGN RN 1.jpg
24	n/a	n/a	Blossom Terrace	west side	Dark corner with dumpster, CEPTED	Request property owner to trim trees	М	CRM CPC 218.jpg
25	approx. 150' north of	n/a	Blossom Terrace	west side	Overgrown tree and dark area adjacent to Royal Academy near sidewalk, CEPTED	Request property owner to trim trees	М	CRM CPC 416.jpg
26	n/a	n/a	Duskin Avenue	NB & SB	Need to enhance school crossing due to heavy usage	Add school crossing sign to both sides of the road	М	PED km 1.jpg
27	approx. 300'	south of	Americana Boulevard	SB	Open utility box next to sidewalk	request utility owner to maintain	L	PED RN 900.jpg

				1				
28	south of	n/a	Americana Boulevard	NB	Tree branches reduce visibility of "Americana Bv NEXT SIGNAL" sign	Trim tree branches	L	SGN cl 108.jpg
29	south of	n/a	Americana Boulevard	NB	Tree branches reduce visibility of school crossing ahead sign	Trim tree branches	L	SGN cl 109.jpg
	to a south of	1	Hanana Daad	OD.	large pavement edge drop-off	wan air duan aff		PAV cl 114.jpg
30	just south of	n/a	Honour Road	SB	High incidence of left turn and right angle crashes.	repair drop-off Stripe a high emphasis crosswalk across Honour	Н	
31	n/a	n/a	Honour Road	WB approach	Sight distance is reduced by a concrete wall in the SE corner.	Road, pull the stop bar forward 6' to 4' behind the crosswalk.	Н	PMS cl 110.jpg
				WB .		Add yellow object markers and double arrow panel		SGN cl 111.jpg
32	n/a	n/a	Honour Road	approach	End of road treatment is missing.	for end of road treatment.	L	
33	n/a	n/a	Honour Road	west side across	utility box has tree growing inside it pedestrians crossing street to get to bus stop with	request utility owner to maintain or remove install pedestrian crosswalk with pedestrian warning	L	BCZ cl 189.jpg
34	n/a	n/a	Honour Road	south leg	no sidewalk or crosswalk	signs	М	PED cl 191.jpg
35	approx. 20'	north of	Honour Road	NB	Overgrown tree near sidewalk, CEPTED	Request property owner to trim trees	М	CRM CPC 959.jpg
	арргох. 20	HOLLITOI				,	IVI	PED cl 187.jpg
36	approx. 180'	north of	Buchanan Bay Cir S	SB	at bus stop ID 2804, trash can is not secured at bus stop ID 2884, boarding and alighting area	request that LYNX secure trash can	L	PED CL 187.jpg
37	approx. 325'	north of	Buchanan Bay Cir S	NB	doesn't appear to be sufficient size (5' X 8')	review with LYNX	L	ADA cl 132.jpg
38	approx. 300'	south of	Holden Road	SB	tree branches too low over sidewalk	Trim tree branches	_	ADA cl 182.jpg
							<u> </u>	ADA cl 181.jpg
39	approx. 200'	south of	Holden Road	SB	tree branches too low over sidewalk	Trim tree branches	L	
40	south of	n/a	Holden Road	SB	pavement edge drop-off	repair drop-off	М	PAV cl 115.jpg
41	south of	n/a	Holden Road	SB	Bus stop ID 2803 - cable line is draping low within reach of pedestrians.	Contact Brighthouse to tighten slack in cable	М	BCZ cl 118.jpg
42	south of	n/a	Holden Road	SB	Bus stop ID 2803 - grass is extremely high in boarding and alighting area	Recommend increasing mowing schedule for roadways with heavy transit usage at bus stops	М	ADA RN 109.jpg
					Evidence of vehicles leaving pavement around	, , ,	IVI	PAV cl 140.jpg
43	n/a	n/a	Holden Road	SE corner	corner, pavement rutting Evidence of vehicles leaving pavement around	extend/repair pavement around radius	L	
44	n/a	n/a	Holden Road	SW corner	corner, pavement rutting	extend/repair pavement around radius	L	PAV cl 116.jpg
45	n/a	n/a	Holden Road	east side	No crosswalk near bus stop	Stripe a high emphasis crosswalk across Holden Road	L	PMS cl 112.jpg
					No crosswalk across Texas Avenue to get to bus	Stripe a high emphasis crosswalk across Texas		PMS cl 179.jpg
46	n/a	n/a	Holden Road	south leg	stop on west side of road	Avenue	M	
47	n/a	n/a	Holden Road	NB	Stop sign is laterally offset due to concrete.	Replace standard panel with oversized panel.	L	SGN cl 113.jpg
48	approx. 200'	north of	Holden Road	SB	fiber optic cable needs maintenance	Contact AT&T to repair	L	BCZ cl 177.jpg
49	approx. 350'	north of	Holden Road	SB	Sign post has no sign panel	Research missing sign	L	SGN cl 178.jpg
50	approx. 350'	north of	Holden Road	west side	steep drop-off into drainage basin	not within CZ - install fence to protect children	М	BCZ cl 180.jpg
51	n/a	n/a	Tower Pine Road	SB	Stop sign bent over	request that property owner reset stop sign	L	SGN cl 176.jpg
52	approx. 150'	north of	Tower Pine Road	west side	No Parking sign double arrow doesn't have signs for limits	install no parkings signs with outside limits	L	SGN cl 147.jpg
			Lemon Tree Lane	SW corner	Trees at entry are overgrown; CEPTED	request property owner to trim trees		CRM LS 433.jpg
53	n/a	n/a	Lemon Tree Lane	Svv corner	Visibility of reverse turn warning sign reduced by	request property owner to trim trees	М	
54	approx. 100'	south of	Skan Court	SB	tree branches	Trim tree branches	М	VIS cl 175.jpg
55	approx. 25'	south of	Skan Court	NB	branches too low over sidewalk No Parking sign double arrow doesn't have signs	Trim tree branches	L	ADA cl 151.jpg
56	just south of	n/a	Skan Court	west side	for limits	install no parkings signs with outside limits	L	SGN cl 154.jpg
57	n/a	n/a	Skan Court	NE corner	rutting/drop-off around radius	repair drop-off	L	PAV cl 174.jpg
58	n/a	n/a	Dunwoodie Street	EB	tree branchees too low over sidewalk if pedestrian continues to walk on east side	Trim tree branches	ı	ADA cl 159.jpg
59	n/a	n/a	Dunwoodie Street	SB	Street name sign for Texas needs to be replaced, needs block number	Replace sign	L	SGN cl 172.jpg
55	11/4	1./4	Samussale Street	25	Hoods blook Hullibol	1 topiaso sigii		

60	n/a	n/a	Dunwoodie Street	SB	Stop bar is faded	refresh pavement markings	L	PMS cl 173.jpg
					Reverse curve sign is located near the end of the			
					first curve. A second reverse curve sign is located			SGN cl 160.jpg
61	approx. 100'	east of	Dunwoodie Street	EB	closer to the beginning of the curve	Remove sign	L	
	approx. 700'	280'				-		CON at 464 in a
62	west of	west of	Rio Grande Avenue	east side	3 no parking signs are out-dated with no arrows	replace signs with current standard	L	SGN cl 161.jpg
						-		CON at 100 in a
63	370'	west of	Rio Grande Avenue	WB	Speed limit sign has damaged sheeting	replace sign	L	SGN cl 169.jpg
								BCZ cl 168.jpg
64	330'	west of	Rio Grande Avenue	WB	telephone box with exposed wiring	Contact AT&T to repair/remove	L	<u>BCZ_CI_100.jpg</u>
								PAV cl 165.jpg
65	200'	west of	Rio Grande Avenue	WB	median curb is broken	repair curb	L	17(V 01 100.jpg
	0001		D: 0					SGN cl 166.jpg
66	200'	west of	Rio Grande Avenue	EB	Object marker below Keep Right sign is faded.	replace object marker panel	М	<u></u>
07	4001 1 6	,	D: 0 1 4	ED		Б		PAV cl 122.jpg
67	100' west of	n/a	Rio Grande Avenue	EB	Curb needs repair	Repair curb	L	
				WB		Install "Keep Right" sign in median on west leg,		SGN cl 119.jpg
68	n/a	n/a	Rio Grande Avenue	approach	"Keep Right" sign is missing	westbound.	Н	<u>0014 01 119.jpg</u>
				WB	WB approach is severely offset at intersection; lines			PMS cl 120.jpg
69	n/a	n/a	Rio Grande Avenue	approach	up with oncoming westbound traffic	Install guide lines across intersection.	Н	FINIS CI 120.Jpg

Texas Avenue

Sidewalk and ADA issues

	_	_					Severity	
No.	From	То	Cross Street	Direction	Problem No curb ramps for pedestrians crossing Oak Ridge	Solution	(L, M, H)	Photo Name
1	n/a	n/a	Oak Ridge Road	NE corner	Road	Install curb ramp with signal reconstruction		ADA RN 90.jpg
'	II/a	II/a	Oak Muge Moau	INE COITIE	Noau	Construct curb ramp that meets ADA criteria	-	
						including truncated dome mats with signal		ADA RN 88.jpg
2	n/a	n/a	Oak Ridge Road	NE corner	Ramp out of tolerance and no truncated dome mats	reconstruction	L	ADA THE GO.Jpg
_	11/4	11/4	Out Hago Hoad	112 0011101	Trainp out of toloranos and no trainballou deline mate	Pull back median or cut median to crosswalk with	_	
3	n/a	n/a	Oak Ridge Road	south leg	Median nose extends into crosswalk	signal reconstruction	L	ADA RN 93.jpg
				Ĭ		Construct curb ramp that meets ADA criteria		
						including truncated dome mats with signal		ADA RN 92.jpg
4	n/a	n/a	Oak Ridge Road	SW corner	Ramp out of tolerance and no truncated dome mats	reconstruction	L	
						Construct curb ramp that meets ADA criteria		
					Ramp out of tolerance for crosswalk across Texas	including truncated dome mats with signal		ADA RN 89.jpg
5	n/a	n/a	Oak Ridge Road	NW corner	Avenue. Also no truncated dome mats.	reconstruction.	L	
						Construct curb ramp that meets ADA criteria		
					Ramp out of tolerance for crosswalk across Oak	including truncated dome mats with signal		ADA RN 91.jpg
6	n/a	n/a	Oak Ridge Road	NW corner	Ridge Road	reconstruction.	L	
					4 sidewalk panels are broken with vertical			ADA RN 134.jpg
7	approx. 450'	north of	Oak Ridge Road	west side	discontinuities	repair sidewalk	L	<u>/////////////////////////////////////</u>
	annay 075!	41 6	\\\ - - \\\\		sidewalk drop-off at utility pole just north of Seasons Resort main entrance	fill draw off		ADA RN 140.jpg
8	approx. 375'	south of	Wakulla Way	west side	Seasons Resort main entrance	fill drop-off	L	
9	approx. 180'	south of	Wakulla Way	NB	Sand on sidewalk next to driveway apron	Add sod		ADA RN 128.jpg
9	арргох. 100	South of	vvakulia vvay	ND	dand on sidewalk flext to driveway apron	Add 30d		
10	approx. 150'	south of	Wakulla Way	west side	sidewalk drop-off at utility pole	fill drop-off	1	ADA RN 142.jpg
	app. 571. 100	count of	Transala Tray	Woot Glad	utility pole within sidewalk leaving less than 4' for	u.op on	_	
11	approx. 40'	south of	Wakulla Way	west side	pedestrian access route	widen sidewalk around utility pole	L	ADA RN 143.jpg
	• •		•			Construct sidewalk that meets ADA standards		ADA RN 125.jpg
12	n/a	n/a	Pineway Drive	NE corner	Ramp out of tolerance and no truncated dome mats	including truncated dome mats	L	ADA RN 125.jpg
	,							ADA cl 199.jpg
13	n/a	n/a	Pineway Drive	NW corner	No truncated dome mats	Install truncated dome mats	L	<u>, , , , , , , , , , , , , , , , , , , </u>
1.4	n/a	-/-	Dinassas Drive	CM sames	No truncated dome mats	Install truncated dome mats		ADA cl 198.jpg
14	n/a	n/a	Pineway Drive	SW corner	No truncated dome mats	Construct sidewalk that meets ADA standards	L	
15	n/a	n/a	Pineway Drive	SE corner	Ramp out of tolerance and no truncated dome mats	including truncated dome mats		ADA RN 126.jpg
10	11/4	11/a	T IIICWay Dilvc	OL COITICI	Trainp out of tolerance and no transaced dome mate	moldaring transacted define mate	-	
16	just south of	n/a	Pineway Drive	SE corner	sidewalk drop-off at drainage structure	Consider adding pedestrian handrail	L	PED cl 197.jpg
	J	.,	, .			Construct sidewalk that meets ADA standards		A.D.A. D.M. 440.4
17	n/a	n/a	Rose Avenue	SW corner	Ramp out of tolerance and no truncated dome mats	including truncated dome mats	L	ADA RN 146.jpg
						Construct sidewalk that meets ADA standards		ADA RN 146.jpg
18	n/a	n/a	Rose Avenue	NW corner	Ramp out of tolerance and no truncated dome mats	including truncated dome mats	L	ADA IOI 140.jpg
4.0	,	,						ADA cl 195.jpg
19	n/a	n/a	Rose Avenue	SE corner	No truncated dome mats	Install truncated dome mats	L	, 157 t 61 100 1 ₁ pg
20	n/a	n/a	Rose Avenue	NE corner	No truncated dome mats	Install truncated dome mats		ADA cl 194.jpg
20	II/a	II/a	Nose Avenue	INE COITIEI	No truncated dome mats	mstaii tiuncateu dome mats		
21	n/a	n/a	Blossom Terrace	NE corner	No truncated dome mats	Install truncated dome mats	L	ADA cl 192.jpg
	11/4	1./4	Diocociii Tolluoc	112 3011101	Tto danada domo mato	motali transator domo mato	-	
22	n/a	n/a	Blossom Terrace	SE corner	No truncated dome mats	Install truncated dome mats	L	ADA cl 193.jpg
								ADA DN 450 :
23	n/a	n/a	Blossom Terrace	west side	broken sidewalk	repair sidewalk	L	ADA RN 150.jpg
			·					ADA RN 124.jpg
24	just south of	n/a	Duskin Avenue	east side	sidewalk drop-off at drainage structure	Consider adding pedestrian handrail	L	<u> </u>
0.5	m ! -		Dualda A	NIT	name and of talanama and in the control of the	Construct sidewalk that meets ADA standards		ADA RN 122.jpg
25	n/a	n/a	Duskin Avenue	IN⊏ corner	ramp out of tolerance and no truncated dome mats	including truncated dome mats	L	

		1	T			Company of pidewalls that magata ADA atomidanda		
26	n/a	n/a	Duskin Avenue	SE corner	ramp out of tolerance and no truncated dome mats	Construct sidewalk that meets ADA standards including truncated dome mats	L	ADA RN 123.jpg
27	n/a	n/a	Myakka Drive	NW corner	ramp out of tolerance and no truncated dome mats	Construct sidewalk that meets ADA standards including truncated dome mats	L	ADA RN 162.jpg
28	n/a	n/a	Myakka Drive	SW corner	ramp out of tolerance and no truncated dome mats	Construct sidewalk that meets ADA standards including truncated dome mats	1	ADA RN 163.jpg
29	approx. 900'	south of	Americana Boulevard	NB	sand on sidewalk south of Millenia West apartments driveway	Consider barrier to prevent sand spillage onto sidewalk		ADA RN 118.jpg
30	approx. 250'	south of	Americana Boulevard	SB	vertical discontinuity in sidewalk, trip hazard	repair sidewalk		ADA RN 114.jpg
					•	·		ADA RN 113.jpg
31	approx. 200'	south of	Americana Boulevard	SB	vertical discontinuity in sidewalk, trip hazard broken sidewalk approx. 50' south of bus stop, trip	repair sidewalk	L	ADA cl 123.ipg
32	approx. 525'	north of	Americana Boulevard	NB	hazard	repair sidewalk	L	
33	approx. 670'	south of	Honour Road	NB	cracked sidewalk approx. 30' north of bus stop	repair sidewalk	L	PED cl 124.jpg
34	approx. 250'	south of	Honour Road	NB	concrete spillover on sidewalk is trip hazard	remove/grind down concrete spillover from sidewalk	L	ADA cl 125.jpg
35	approx. 200'	south of	Honour Road	NB	5 sidewalk panels are cracked	repair sidewalk	L	PED cl 126.jpg
36	approx. 150'	south of	Honour Road	NB	concrete spillover on sidewalk is trip hazard	remove/grind down concrete spillover from sidewalk	L	ADA cl 127.jpg
37	approx. 50'	south of	Honour Road	NB	at bus stop ID 2883 boarding and alighting area is not flat	recommend concrete pad	М	ADA cl 128.jpg
38	n/a	n/a	Honour Road	east side	no truncated dome mats at ends of sidewalk	add truncated dome mats	L	ADA cl 129.jpg
					sidewalk ends on west side; forces pedestrians to	remove bushes and construct sidewalk to Americana		PED cl 190.jpg
39	n/a	n/a	Honour Road	SB	cross at uncontrolled location grass has grown over sidewalk creating vertical	(minimum to SB bus stop ID 2805)	М	<u>1 LD 61 100.jpg</u>
40	approx.100'	north of	Honour Road	SB	discontinuity, trip hazard	remove grass over sidewalk	L	ADA cl 188.jpg
41	n/a	n/a	between Honour and Buchanan Bay Cir S	NB	6 sidewalk panels are cracked, trip hazards	repair/replace sidewalk panels	L	ADA cl 130.jpg
42	just south of	n/a	Buchanan Bay Cir S	NB	4 sidewalk panels have graffiti	repair/replace sidewalk panels	L	CRM cl 131.jpg
43	approx. 180'	north of	Buchanan Bay Cir S	SB	at bus stop ID 2804, sidewalk running slope is steeper than road, not ADA compliant	make sidewalk ADA compliant with Texas widening project	٦	ADA cl 185.jpg
44	approx. 180'	north of	Buchanan Bay Cir S	SB	at bus stop ID 2804, cross slope from sidewalk to bus stop is too steep (>1:20)	recommend constructing concrete pad for bus stop with sidewalk connection at slope <5%	М	ADA cl 186.jpg
45	approx. 325'	north of	Buchanan Bay Cir S	SB	sidewalk drop-off	repair drop-off, possibly broken irrigation?	M	PED cl 184.jpg
			j	SB	2 sidewalk panels are broken with vertical			ADA cl 183.jpg
46	approx. 300'	north of	Buchanan Bay Cir S	SB	discontinuity; trip hazard	repair/replace sidewalk panels	L	
47	approx. 20'	south of	Buchanan Bay Cir N	NB	vertical discontinuity in sidewalk, trip hazard cracked sidewalk with veritical discontinuity, trip	repair sidewalk	L	ADA cl 133.jpg
48	approx. 150'	south of	Holden Road	SB	hazard	repair sidewalk	L	ADA cl 180.jpg
49	approx. 350'	south of	Holden Road	NB	vertical discontinuity in sidewalk, trip hazard	repair sidewalk	L	ADA cl 134.jpg
50	approx. 345'	south of	Holden Road	NB	cracked sidewalk	repair sidewalk	L	PED cl 135.jpg
51	approx. 335'	south of	Holden Road	NB	cracked sidewalk	repair sidewalk	L	PED cl 136.jpg
52	approx. 150'	south of	Holden Road	NB	cracked sidewalk	repair sidewalk	L	PED cl 137.jpg
53	approx. 130'	south of	Holden Road	NB	2 panels cracked sidewalk	repair sidewalk	L	PED cl 138.jpg
54	south of	n/a	Holden Road	SB	pavement edge drop-off	repair drop-off	М	PAV cl 115.jpg
55	south of	n/a	Holden Road	SB	Bus stop ID 2803 - bus bench is blocking pedestrian access route minimum 4'	relocate bus bench off sidewalk off sidewalk and closer to bus stop in firm, level area	L	ADA cl 117.jpg
56	n/a	n/a	Holden Road	SE corner	cracked sidewalk	repair sidewalk	L	PED cl 139.jpg
57	n/a	n/a	Holden Road	SE corner	Ramp does not have truncated dome mats	Install truncated dome mats		ADA RN 99.jpg
	11/4	1,,4		55.1161	ap acconstructo d'anoutou domo mato		_	1

Second Color Page									
approx. 40° north 6 60° north of Holden Road NB September every 200° L September every 200° September every 200° September every 200° L September every 200° September 200° September every 200° September 200° Septe	58	n/a		Holden Road	NE corner	Ramp does not have truncated dome mats	Install truncated dome mats	L	ADA RN 100.jpg
sidewalk panel no north side of Ahambra (Libra (Libra) approx. 450° north of Holden Road NB New sidewalk panel has void underneath and provided in the control of the control of Holden Road NB New sidewalk panel has void underneath and provided in the control of the control of Holden Road NB New sidewalk panel has void underneath and provided in the control of the		approx. 400' north	800' north						ADA cl 191.jpg
driveway is too steep; doesn't meet ADA running approx. 450° north of Holden Road NB New sidewalk panel has vold underneath Backfill under new sidewalk panel L PED cl. 142 JpB approx. 600° north of Holden Road NB New sidewalk panel has vold underneath Backfill under new sidewalk panel L PED cl. 142 JpB approx. 620° north of Holden Road NB New sidewalk panel has vold underneath repair sidewalk L PED cl. 143 Jpf approx. 620° north of Holden Road NB Caracked sidewalk panels and sidewalk repair sidewalk L PED cl. 143 Jpf approx. 100° north of Tower Pine Road NB Caracked sidewalk on east side of road with repair sidewalk L PED cl. 143 Jpf approx. 50° north of Tower Pine Road NB Caracked sidewalk on east side of road with repair sidewalk L PED cl. 143 Jpf approx. 50° north of Lemon Tree Lane NB Caracked sidewalk panels with vertical discontinuity, the phase of the paper sidewalk L PED cl. 145 Jpf approx. 50° north of Lemon Tree Lane NB Caracked sidewalk panels with vertical discontinuity, the phase of the paper sidewalk L PED cl. 145 Jpf approx. 50° north of Lemon Tree Lane NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L PED cl. 145 Jpf approx. 50° north of Lemon Tree Lane NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L PED cl. 145 Jpg approx. 50° north of Lemon Tree Lane NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L PED cl. 145 Jpg approx. 50° south of Skan Court NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L ADA cl. 150 Jpg approx. 50° south of Skan Court NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L ADA cl. 150 Jpg approx. 50° south of Skan Court NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L PED cl. 155 Jpg approx. 50° south of Skan Court NB Caracked sidewalk panels with vertical discontinuity, the paper sidewalk L PED cl. 155 Jpg approx. 50° south of Skan Court NB Caracked sidewalk panels sidewalk	59	of	of	Holden Road	NB		Construct passing spaces every 200'	L	
September Sept						•			
61 approx. 600' north of Holden Road NB New sidewalk panel has void underneesth Backfill under new sidewalk panel L PED cl 142,IB3 62 approx. 620' north of Holden Road NB NB Cracked sidewalk L PED cl 143,IB1 63 n/a n/a Tower Pine Road NB Cracked sidewalk L PED cl 143,IB1 64 approx. 100' north of Tower Pine Road NB Cracked sidewalk L PED cl 145,IB3 65 approx. 150' north of Tower Pine Road NB Cracked sidewalk L PED cl 145,IB3 66 approx. 200' south of Lemon Tree Lane NB Cracked sidewalk L PED cl 145,IB3 67 approx. 200' north of Lemon Tree Lane NB Cracked sidewalk L PED cl 145,IB3 68 approx. 50' north of Lemon Tree Lane NB Cracked sidewalk L PED cl 145,IB3 68 approx. 50' north of Lemon Tree Lane NB Cracked sidewalk L PED cl 145,IB3 69 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 145,IB3 69 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 145,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 145,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 145,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 145,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 60 approx. 200' south of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 60 approx. 200' seat of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 61 approx. 200' west of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 62 approx. 200' west of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 63 approx. 200' west of Skan Court NB Droken addressed sidewalk L PED cl 155,IB3 64 approx. 200' west of Skan Court NB Droken addressed sidewalk L PED cl 156,IB3 65 approx. 200' west of Skan Court NB Droken addressed sidewalk L PED c						,			ADA cl 141.jpg
September Product Pr	60	approx. 450'	north of	Holden Road	NB	slope requirement	Repair to meet ADA criteria	L	
September Product Pr									PED cl. 142 ing
ADA of 144.jpg ADA of 149.jpg ADA of 159.jpg ADA	61	approx. 600'	north of	Holden Road	NB	New sidewalk panel has void underneath	Backfill under new sidewalk panel	L	1 ED 01 142.jpg
Repair sidewalk L ADA of 144 jpg	62	annrox 620'	north of	Holden Road	NB	cracked sidewalk	repair sidewalk	1	PED cl 143.jpf
64 approx. 100" north of Tower Pine Road NB vertical discontinuity, trip hazard repair sidewalk L ADA. cl. 144.ligs of approx. 100" north of Tower Pine Road NB cracked sidewalk or and approx. 50" north of approx. 200" south of Lemon Tree Lane NB cracked sidewalk panels with vertical discontinuity, trip hazard repair sidewalk L PED. cl. 146.ligs 66 approx. 200" south of Lemon Tree Lane NB cracked sidewalk panels with vertical discontinuity, trip hazard repair sidewalk L PED. cl. 149.ligs 68 approx. 50" north of Lemon Tree Lane NB cracked sidewalk panels with vertical discontinuity, trip hazard repair sidewalk L ADA. cl. 150.ligs 68 approx. 75" north of Lemon Tree Lane NB cracked sidewalk panels with vertical discontinuity, trip hazard repair sidewalk L ADA. cl. 150.ligs 69 approx. 25" south of Skan Court NB broken sidewalk with vertical discontinuity, trip approx. 25" south of Skan Court NB broken sidewalk with vertical discontinuity, trip approx. 75" east of Durwoodie Street EB cracked sidewalk repair sidewalk L ADA. cl. 150.ligs 77 approx. 75" east of Durwoodie Street EB sidewalk running slope is too steep for ADA; sidewalk run	- 02	арргох. 020	Horaroi	Tioladii Ttaaa	ND				
repair sidewalk	62	n/o	n/o	Tower Pine Pood	ND				ADA cl 144.jpg
65 approx. 100' north of Tower Pine Road NB of apartment complex driveway repair sidewalk	03	II/a	II/a	Tower Fille Road	IND	cracked sidewalk on east side of road on north side			
66 approx. 150° north of Tower Pine Road NB cracked sidewalk on east side of proad approx. 50° north of approx. 200° south of Lemon Tree Lane NB cracked sidewalk repair sidewalk	64	approx 100'	north of	Tower Pine Pood	ND				PED cl 145.jpg
ADA cl 152 [pg PED cl 148 [pg PED	04	арргох. 100	1101111101	Tower Fine Road	IND		Tepali Sidewalk	L	
66 approx. 200' south of Lemon Tree Lane NB	65	approx 150'	north of	Tower Pine Poad	ND		repair sidewalk		PED cl 146.jpg
approx. 50' north of Lemon Tree Lane NB 2 cracked sidewalk wretical discontinuity, trip hazard repair sidewalk L ADA cl. 149 jpd discontinuity, trip hazard repair sidewalk L ADA cl. 149 jpd discontinuity, trip hazard repair sidewalk L ADA cl. 149 jpd discontinuity, trip hazard repair sidewalk L ADA cl. 149 jpd discontinuity, trip hazard repair sidewalk L ADA cl. 149 jpd discontinuity, trip hazard repair sidewalk L ADA cl. 150 jpd hazard repair sidewalk L ADA cl. 152 jpd hazard repair sidewalk L PED cl. 153 jpd cracked sidewalk repair sidewalk L PED cl. 153 jpd cracked sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl. 156 jpd fill drop-off M PED cl. 157 jpd investigate continuation of sidewalk to safe crossing location at a minimum, preferred to Rio Grande with intersection improvement project M PED cl. 158 jpd PED cl. 159 jpd PED cl. 158 jpd PED cl. 159 jpd PED cl	03	арргох. 150	HOLLITOI	Tower Fille Noau	IND	Hortif of apartment complex driveway	Tepali sidewaik	L	
2 cracked sidewalk panels with vertical glacontinuity, trip pair sidewalk	66	approx 200'	couth of	Lemon Tree Lane	ND	cracked sidewalk	repair sidewalk		PED cl 148.jpg
discontinuity, frip hazard repair sidewalk L ADA cl 149.pg approx. 75' north of Lemon Tree Lane NB rocked sidewalk panel with vertical discontinuity, frip hazard repair sidewalk L ADA cl 150.jpg broken sidewalk with vertical discontinuity, frip hazard repair sidewalk L ADA cl 150.jpg approx. 25' south of Skan Court NB broken sidewalk with vertical discontinuity, frip hazard repair sidewalk L ADA cl 152.jpg 70 across from n/a Skan Court EB cracked sidewalk repair sidewalk L PED cl 153.jpg 71 approx. 75' east of Skan Court EB cracked sidewalk running slope is too steep for ADA; something splied softwalk trunning slope is too steep for ADA; something splied softwalk froe-off investigate continuation of sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 153.jpg 72 approx. 100' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk R repair sidewalk L PED cl 159.jpg 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off investigate continuation of sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 159.jpg 74 n/a n/a Dunwoodie Street EB cracked sidewalk on west side of road repair sidewalk L PED cl 159.jpg 75 approx. 100' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk R repair sidewalk L PED cl 159.jpg 76 approx. 50' west of Rio Grande Avenue WB 4' pedestrian access route not available per ADA Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue M Re-align eastbound approach to Rio Grande Avenue L o allow for sidewalk construction on south side of Texas Avenue M Re-align eastbound approach to Rio Grande Avenue L o allow for sidewalk construction on south side of Texas Avenue M M ADA cl 164.jpg	- 00	арргох. 200	South of	Lemon free Lane	IND		Tepali sidewaik	L	
approx. 75' north of Lemon Tree Lane NB broken sidewalk type hazard repair sidewalk L ADA cl 150.ipg approx. 25' south of Skan Court NB broken sidewalk with vertical discontinuity, frip hazard repair sidewalk L ADA cl 152.ipg across from n'a Skan Court EB cracked sidewalk repair sidewalk L PED cl 153.ipg racked sidewalk repair sidewalk L PED cl 153.ipg racked sidewalk repair sidewalk L PED cl 153.ipg racked sidewalk repair sidewalk L PED cl 155.ipg racked sidewalk running slope is too steep for ADA; approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.ipg racked sidewalk rorp-off fill drop-off fil	67	approx 50'	north of	Lemon Tree Lane	ND		repair sidewalk		ADA cl 149.jpg
fighter from the first part of	07	арргох. эо	HOLLITOI	Lemon free Lane	IND		repail sluewark		
broken sidewalk with vertical discontinuity, trip repair sidewalk L ADA cl. 152.jpg repair sidewalk L ADA cl. 152.jpg repair sidewalk L PED cl. 153.jpg repair sidewalk L PED cl. 155.jpg repair sidewalk L PED cl. 156.jpg repair sidewalk repair sidewalk repair sidewalk repair sidewalk repair sidewalk Repair to meet ADA criteria; try to clean spill L ADA cl. 156.jpg repair sidewalk repair sidewalk repair sidewalk repair sidewalk repair sidewalk Repair to meet ADA criteria; try to clean spill L ADA cl. 156.jpg repair sidewalk repair sidewalk repair sidewalk repair sidewalk Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA criteria; try to clean spill Repair to meet ADA crite	60	annroy 75'	north of	Lomon Troo Long	ND	•	ropair sidowalk		ADA cl 150.jpg
69 approx. 25' south of Skan Court NB hazard repair sidewalk L ADA cl 154/10g 70 across from n/a Skan Court EB cracked sidewalk repair sidewalk L PED cl 153 ing 71 approx. 75' east of Skan Court EB cracked sidewalk repair sidewalk L PED cl 155/10g 72 approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Sementhing spilled Sementhing spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156/10g 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off fill drop-off investigate continuation of sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 157/10g 74 n/a n/a Dunwoodie Street EB cracked sidewalk repair sidewalk repair sidewalk L PED cl 171/10g 75 approx. 100' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 171/10g 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170/10g 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway 78 200' west of Nio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of Nio Grande Avenue WB 4' pedestrian shave created a goat path; sidewalk needed, but R/W needed at fence 80 n/a n/a Rio Grande Avenue EB Cracked sidewalk needed, but R/W needed at fence 80 n/a n/a Rio Grande Avenue EB Cracked sidewalk needed, but R/W needed at fence 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g 80 Drive sidewalk construction on south side of Texas Avenue MB ADA cl 164/10g	00	арргох. 75	HOLLITOI	Lemon free Lane	IND		repail sluewark		
70 across from n/a Skan Court EB cracked sidewalk repair sidewalk L PED cl 153.jpg 71 approx. 75' east of Skan Court EB cracked sidewalk running slope is too steep for ADA; something spilled Sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 72 approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 73 approx. 25' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 74 n/a n/a Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 75 approx. 25' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 76 approx. 25' east of Dunwoodie Street EB sidewalk ends; pedestrian snay cross within curve to sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 157.jpg 75 approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk L PED cl 171.jpg 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl 167.jpg 78 20' west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB 4' pedestrian access route not available per ADA 81 PED cl 162.jpg 81 ADA cl 164.jpg 82 ADA cl 164.jpg 82 ADA cl 164.jpg 83 ADA cl 164.jpg 84 Pedestrian shave created a goat path; sidewalk needed, but R/M needed at fence Texa	60	annroy 25'	south of	Skan Court	ND	• • •	ropair sidowalk		ADA cl 152.jpg
71 approx. 75' east of Skan Court EB cracked sidewalk repair sidewalk repair sidewalk repair sidewalk labeled to allow for sidewalk to safe crossing location at a minimum; preferred to Rio Grande Avenue Repair sidewalk labeled repair sidewalk repair sidewalk repair sidewalk labeled repair sidewalk labeled repair sidewalk repair sidewalk labeled repair sidewalk to safe crossing location at a minimum; preferred to Rio Grande Avenue Realign eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Texas Avenue Realign eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Texas	69	арргох. 25	South of	Skall Court	IND	nazaru	repail sidewalk	L	
71 approx. 75' east of Skan Court EB cracked sidewalk repair sidewalk repair sidewalk L PED cl 155.jpg 72 approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off fill drop-off	70	aaraaa fram	nlo	Skan Court	ЕВ	aracked sidewalk	ropair sidowalk		PED cl 153.jpg
72 approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L ADA cl. 156.jpg 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off fill	70	across ironi	II/a	Skall Coult	ED	Cracked Sidewalk	repail sluewark		
72 approx. 100' east of Dunwoodie Street EB sidewalk running slope is too steep for ADA; something spilled Repair to meet ADA criteria; try to clean spill L 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off 74 n/a n/a Dunwoodie Street EB sidewalk drop-off 75 approx. 100' west of Barwood Drive WB cracked sidewalk 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway 78 200' west of west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of n/a Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a n/a Rio Grande Avenue EB Rid Grande Avenue EB A' pedestrian smay cross within curve to sidewalk construction of sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 171.jpg Repair to meet ADA criteria; try to clean spill L ADA cl 156.jpg PED cl 157.jpg PED cl 158.jpg PED cl 171.jpg PED cl 171.jpg Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk to meet 4' requirement M ADA cl 162.jpg ADA cl 164.jpg PED cl 167.jpg ADA cl 164.jpg ADA cl 164.jpg PED cl 121.jpg	71	approx 75'	oast of	Skan Court	ED	cracked sidewalk	repair sidewalk		PED cl 155.jpg
72 approx. 100' east of Dunwoodie Street EB something spilled Repair to meet ADA criteria; try to clean spill L ADA cl. 156.lpg 73 approx. 25' east of Dunwoodie Street EB sidewalk drop-off fill drop-off investigate continuation of sidewalk to safe crossing sidewalk ends; pedestrians may cross within curve to sidewalk on west side of road 74 n/a n/a Dunwoodie Street EB sidewalk ends; pedestrians may cross within curve to sidewalk on west side of road sidewalk on west side of road sidewalk on west side of road sidewalk repair sidewalk L 75 approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk repair sidewalk L 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk repair sidewalk L 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L 78 200' west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of n/a Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 81 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 82 n/a Rio Grande Avenue EB A' pedestrian access route not available per ADA 83 n/	/ 1	арргох. 75	east of	Skall Coult	ED		Tepali sidewaik	L	
approx. 25' east of Dunwoodie Street EB sidewalk drop-off fill drop-off investigate continuation of sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 171.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande with intersection improvement project M M PED cl. 158.jpg location at a minimum; preferred to Rio Grande Avenue to Rio Grande Aven	72	approx 100'	oast of	Dunwoodie Street	ED	9 1	Penair to meet ADA criteria: try to clean spill		ADA cl 156.jpg
Approx. 23 east of butwoodie street EB sidewalk drop-or and provided to sidewalk on west side of road sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M M intersection improvement project M M PED cl. 158.jpg 75 approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk L PED cl. 171.jpg 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl. 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl. 170.jpg 80 200' west of West of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB 4' pedestrian access route not available per ADA 80 n/a Rio Grande Avenue EB Avenue	12	арргох. 100	east of	Duriwoodle Street	ED	Something Spilled	Repair to fileet ADA criteria, try to clean spili	L	
n/a n/a Dunwoodie Street EB sidewalk ends; pedestrians may cross within curve location at a minimum; preferred to Rio Grande with intersection improvement project M To sidewalk on west side of road intersection improvement project M To sidewalk on west side of road intersection improvement project M To approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk L PED cl 171.jpg To approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170.jpg To sidewalk on west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl 170.jpg Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue To sidewalk on west of Rio Grande Avenue to allow for sidewalk to meet 4' requirement M ADA cl 162.jpg To sidewalk to safe crossing location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 171.jpg ADA cl 162.jpg ADA cl 162.jpg Construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Pedestrians have created a goat path; sidewalk needed, but R/W needed at fence Texas Avenue To allow for sidewalk construction on south side of Texas Avenue PED cl 121.jpg PED cl 121.jpg PED cl 121.jpg PED cl 121.jpg	72	approx 25'	oast of	Dunwoodie Street	ED	eidewalk drop off	fill drop off	NA	PED cl 157.jpg
n/a n/a Dunwoodie Street EB sidewalk ends; pedestrians may cross within curve to sidewalk on west side of road location at a minimum; preferred to Rio Grande with intersection improvement project M PED cl 158.jpg PED cl 171.jpg PED cl 167.jpg PED cl 168.jpg PED cl 171.jpg PED cl 168.jpg PED cl 168.jpg PED cl 158.jpg PED cl 171.jpg PED cl 168.jpg PED cl 168.jpg PED cl 158.jpg PED cl 171.jpg PED cl 168.jpg PED cl 168.jpg ADA cl 162.jpg PED cl 169.jpg ADA cl 164.jpg PED cl 121.jpg PED cl 168.jpg	13	арргох. 25	east of	Dullwoodle Street	ED	Sidewaik drop-ori		IVI	
74 n/a n/a Dunwoodie Street EB to sidewalk on west side of road intersection improvement project M 75 approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk L PED cl 171.jpg 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl 167.jpg 78 200' west of 100' Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue ADA cl 162.jpg 79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement to allow for sidewalk construction on south side of Texas Avenue ADA cl 164.jpg 80 n/a Rio Grande Avenue EB Pedestrians have created a goat path; sidewalk needed, but R/W needed at fence Texas Avenue M						aidavvalle andav nadaatuiana marv anaaa viithin aymya			DED -1 450 in
75 approx. 100' west of Barwood Drive WB cracked sidewalk repair sidewalk L PED cl. 171.jpg 76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl. 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl. 167.jpg 78 200' west of west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA Rio Grande Avenue WB 4' pedestrian access route not available per ADA Construct addition to sidewalk to meet 4' requirement M ADA cl. 164.jpg 79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue M PED cl. 121.jpg	7.4	1	1-	D			7 ·		PED CI 158.Jpg
76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl 167.jpg Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue 78 20' west of N/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg	74	n/a	n/a	Dunwoodle Street	EB	to sidewalk on west side of road	intersection improvement project	IVI	
76 approx. 50' west of Barwood Drive WB 3 panels of cracked sidewalk repair sidewalk L PED cl 170.jpg 77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L PED cl 167.jpg Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue 78 20' west of N/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue MB ADA cl 164.jpg	7.5	4001		Dames and Daise	WD	and also distributed to			PED cl 171.ipa
77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk L Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue 78 200' west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA 80 n/a n/a Rio Grande Avenue EB Pedestrian have created a goat path; sidewalk needed, but R/W needed at fence Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk to meet 4' requirement M 80 n/a n/a Rio Grande Avenue EB Pedestrians have created a goat path; sidewalk needed, but R/W needed at fence Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Re-align eastbound each sidewalk construction on south side of Texas Avenue Re-align eastbound each sidewalk to meet 4' requirement Re-align eastbound each sidewalk construction on south side of Texas Avenue Re-align eastbound each sidewalk each sidewa	75	approx. 100	west of	Barwood Drive	WB	cracked sidewalk	repair sidewaik	L	
77 310' west of Rio Grande Avenue WB 2 cracked sidewalk panels at corner of driveway repair sidewalk Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue 78 200' west of Rio Grande Avenue EB 4' pedestrian access route not available per ADA 79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA 80 n/a n/a Rio Grande Avenue EB Pedestrians have created a goat path; sidewalk Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Pedestrians have created a goat path; sidewalk needed, but R/W needed at fence Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue PED cl 121.jpg	76	EO!		Damus and Drive	WD	O manala of availed aidavvalle	wa wa si wa si da su alle		PED cl 170.jpg
78 200' west of No Grande Avenue EB 4' pedestrian access route not available per ADA Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue M 79 20' west of Na Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M 80 n/a Rio Grande Avenue EB Pedestrians have created a goat path; sidewalk needed, but R/W needed at fence Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue M PED cl 121.jpg	70	арргох. 50	westor	Barwood Drive	WB	3 paneis of cracked sidewark	repair sidewaik	L	
Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue 79 20' west of Rio Grande Avenue WB 4' pedestrian access route not available per ADA ADA cl 162.jpg ADA cl 162.jpg ADA cl 164.jpg ADA cl 164.jpg ADA cl 164.jpg Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas Avenue Texas Avenue Re-align eastbound approach to Rio Grande Avenue Texas	77	240'	woot of	Die Cranda Avanua	WD	2 aracked aidewalk papels at corner of driveway	rangir gidawalk		PED cl 167.jpg
The second struction of the sidewalk construction on south side of the sidewalk construct addition to sidewalk to meet 4' requirement to allow for sidewalk construction on south side of to allow for sidewalk to meet 4' requirement to allow for sidewalk construction on south side of to allow for sidewalk to meet 4' requirement to allow for sidewalk construction on south side of to allow for sidewalk to meet 4' requirement to allow for sidewalk construction on south side of to allow for sidewalk construction on s	11	310	west or	NO Grande Avende	VVD	Z Gracked Sidewalk pariets at corner of driveway		L	
78 200' west of West of Rio Grande Avenue EB 4' pedestrian access route not available per ADA Texas Avenue M 79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of needed, but R/W needed at fence PED cl 121.jpg			4001						ADA 100 ;
79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of needed, but R/W needed at fence Texas Avenue M PED cl 121.jpg		0001		D: 0		41 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			ADA CI 162.jpg
79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of n/a Rio Grande Avenue EB needed, but R/W needed at fence Texas Avenue Output Description: Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Description: Descriptio	78	200' west of	west of	Rio Grande Avenue	EB	4 pedestrian access route not available per ADA	l exas Avenue	M	
79 20' west of n/a Rio Grande Avenue WB 4' pedestrian access route not available per ADA construct addition to sidewalk to meet 4' requirement M Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of n/a Rio Grande Avenue EB needed, but R/W needed at fence Texas Avenue Output Description: Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue Description: Descriptio	1								
Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of needed, but R/W needed at fence Texas Avenue Re-align eastbound approach to Rio Grande Avenue to allow for sidewalk construction on south side of Texas Avenue M PED cl 121.jpg PED cl 121.jpg PED cl 123.jpg									ADA cl 164.jpg
Rio Grande Avenue EB Pedestrians have created a goat path; sidewalk to allow for sidewalk construction on south side of needed, but R/W needed at fence Texas Avenue M	79	20' west of	n/a	Rio Grande Avenue	WB	4' pedestrian access route not available per ADA		М	
80 n/a n/a Rio Grande Avenue EB needed, but R/W needed at fence Texas Avenue M									
DED at 162 inc									PED cl 121.jpg
81 n/a n/a Rio Grande Avenue NW corner cracked sidewalk repair sidewalk L PED cl 163.jpg	80	n/a	n/a	Rio Grande Avenue	EB	needed, but R/W needed at fence	Texas Avenue	M	
81 n/a n/a Rio Grande Avenue NW corner cracked sidewalk repair sidewalk L PED cr 163:pg									DED at 163 inc
	81	n/a	n/a	Rio Grande Avenue	NW corner	cracked sidewalk	repair sidewalk	L	<u>r ED Gr 103.jpg</u>

C. Rio Grande Avenue

Existing Conditions

Rio Grande Avenue is a two-lane undivided roadway running north-south from Oak Ridge Road to Americana Boulevard and from Honour Road to Holden Avenue. From Holden Avenue to the northern limit of the study area at 33rd Street the road has a 3-lane section with a center turn lane.

The cross section is rural between Oak Ridge Road and Blossom Terrace, but changes to an urban section from Blossom Terrace to Americana Boulevard. Rio Grande Avenue has a mostly rural cross section between Honour Road and Holden Avenue, but has an urban cross section from Holden Avenue to 33rd Street. Rio Grande Avenue serves residential uses including single family homes, apartments, and condominiums. The speed limit is 30 miles per hour between Oak Ridge Road and Americana Boulevard. The speed limit is 35 mph between Holden Avenue and 33rd Street.

Sidewalk exists on both sides of the road between Holden Avenue and 33rd Street, but only on the west side of the road between Honour Road and Holden Avenue. Sidewalk exists on both sides of the road between Americana Boulevard and Nimrod Lane, but only on the west side of the road between Nimrod Lane and Oak Ridge Road. No bike lanes are provided.

Overhead utilities exist on the east side of Rio Grande Avenue between Oak Ridge Road and Rose Avenue. Overhead utilities exist on the west side of Rio Grande Avenue from Honour Road to Holden Avenue and again from 43rd Street to and 33rd Street. Roadway lighting is currently provided on the east side of Rio Grande Avenue from Ole Heritage Drive to Americana Boulevard, on the west side from Honour Road to Holden Avenue, on the east side from Holden Avenue to 44th Street, and on both sides of the road from 44th Street to 33rd Street.

Crash History and Analysis

Crash summaries and crash diagrams were prepared and follow for the key study intersections along Rio Grande Avenue. These are the intersections of Rio Grande Avenue with Oak Ridge Road, Rose Avenue, and Holden Avenue. The crash summary and diagram for the intersection of Rio Grande Avenue with Americana Boulevard can be found under the Americana Boulevard section of this report. The crash summary and crash diagram for the intersection of Rio Grande Avenue with Texas Avenue can be found under the Texas Avenue section of this report. The crash summaries and crash diagrams depict crashes for three years (2011-2013).

Of particular note and as previously shown in Table 4, the intersection of Rio Grande Avenue with Rose Avenue has a high crash rate at 2.174836 crashes per million entering vehicles. This intersection is stop sign controlled on the Rose Avenue approaches and also has a flashing beacon flashing yellow on the Rio Grande Avenue approaches and

red on the Rose Avenue approaches. A very high percentage of crashes (65%) at the intersection of Rio Grande Avenue and Rose Avenue are right angle crashes.

Recommended Countermeasures

The following tables list the recommended improvements for Rio Grande Avenue. The first table lists the general recommendations and the second table lists sidewalk and ADA-related issues.

There are several items believed to be a high priority along Rio Grande Avenue. All of them are related to vegetation reducing the visibility of traffic control devices. The tree trimming for all of these high priority items have been completed.

Countermeasures recommended for the high incidence of right angle crashes at Rio Grande Avenue and Rose Avenue, are that vegetation be trimmed on all approaches to improve sight distance. In order to further emphasize the approach to an intersection and stop condition, double yellow pavement markings are recommended on both Rose Avenue approaches, oversized stop signs are recommended to replace standard size stop signs, and crosswalks are recommended to be added across the eastbound and westbound Rose Avenue approaches.

Throughout Rio Grande Avenue, where two lane roads approach a two lane road, the stop condition for the side street needs to be emphasized. Crosswalks are recommended to be added at all side street approaches parallel to Rio Grande Avenue where sidewalk exists to further emphasize the stop condition and also to increase awareness of pedestrians.

						Cr	ash Summ	arv			
Locatio	n·	OAK RIDO	SE ROAD			<u> </u>		n Control:	Signalized		
	cting Route:		ANDE AVEN	LIE			Prepared b		Signanzea		
	eriod From:	2013	ANDL AVEN	<u>OL</u>				Orange			
Study F	erioù i roin.	2013					PROPERTY	Orange			
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	1/5/2013	Sat	8:17 PM	Rear End	No	No		Clear	Dark - Lighted	Careless Driving	FHPD130FF001436
2	1/11/2013	Fri		Rear End	No	No	\$150	Clear	Daylight	Careless Driving	FHPD13OFF002912
3	1/12/2013	Sat	3:27 PM		No	No	\$1,467	Clear	Daylight	Fail to Yield ROW	FHPD13OFF003364
4	1/18/2013	Fri	11:35 AM	Sideswipe	No	No	\$1,500	Cloudy	Daylight	Careless Driving	FHPD13OFF004866
5	1/24/2013	Thu	1:00 PM	Rear End	No	No	\$10,000	Clear	Daylight	Careless Driving	FHPD13OFF006468
6	1/27/2013	Sun	3:18 AM	Rear End	No	Yes	\$14,500	Clear	Dark - Lighted	Careless Driving	FHPD13OFF007214
7	2/18/2013	Mon	1:23 PM	Other	No	No	\$500	Clear	Daylight	Backing Improper	FHPD13OFF013556
8	3/21/2013	Thu	11:48 PM	Rear End	No	No	\$400	Clear	Dark - Lighted	Careless Driving	FHPD130FF023324
9	3/22/2013	Fri	12:16 AM	Rollover	No	Yes	\$7,000	Clear	Dark - Lighted	Careless Driving	FHPD130FF023326
										Inoperative Traffic Light	
10	3/24/2013	Sun	4:35 PM	Angle	No	No	\$30,000	Cloudy	Daylight	- Failed to Stop	FHPD13OFF024208
11	3/27/2013	Wed	5:53 PM	Rear End	No	Yes	\$13,000	Clear	Daylight	Careless Driving	FHPD13OFF025091
12	4/25/2013	Thu	7:53 AM	Right Turn	No	No	\$4,500	Clear	Daylight	Fail to Yield ROW	FHPD13OFF033790
13	5/15/2013	Wed	7:56 AM	Other	No	No	\$500	Clear	Daylight	Careless Driving	FHPD13OFF039923
14	6/27/2013	Thu	7:32 PM	Angle	No	No	\$800	Clear	Daylight	Fail to Obey Signal	FHPD13OFF053825
15	6/29/2013	Sat	5:35 PM	Unknown	No	No	\$2,281	Clear	Daylight	Careless Driving	FHPD13OFF054515
16	7/15/2013	Mon	6:36 PM	Bicycle	No	No	\$0	Rain	Daylight	Fail to Yield ROW	FHPD13OFF059703
17	8/2/2013	Fri	12:25 PM	Off Road	No	No	\$6,500	Clear	Daylight	Careless Driving	FHPD13OFF065302
18	8/8/2013	Thu	11:55 AM	Rear End	No	No	\$3,000	Clear	Daylight	Careless Driving	FHPD13OFF067310
19	8/25/2013	Sun	3:21 PM	Left Turn	No	No	\$4,800	Cloudy	Daylight	Fail to Yield ROW	FHPD13OFF072886
20	9/3/2013	Tue	3:46 AM	Rear End	No	Yes	\$3,000	Clear	Daylight	Careless Driving	FHPD13OFF075759
21	10/13/2013	Sun	12:51 PM	Rear End	No	No	\$8,000	Clear	Daylight	Careless Driving	FHPD13OFF087838
22	11/8/2013	Fri	8:28 AM	Rear End	No	No	\$1,900	Clear	Daylight	Careless Driving	FHPD13OFF095489
23	11/20/2013	Wed	12:04 AM	Left Turn	No	No	\$5,500	Clear	Dark - Lighted	Fail to Yield ROW	FHPD13OFF099032
24	11/24/2013	Sun	8:35 AM	Rear End	No	No	\$101	Clear	Daylight	Careless Driving	FHPD13OFF100505
25	12/23/2013	Mon	6:37 AM	Right Turn	No	No	\$7,000	Clear	Daylight	Fail to Yield ROW	FHPD130FF109234
26	12/30/2013	Mon	1:11 PM	Right Turn	No	Yes	\$7,550	Clear	Daylight	Fail to Yield ROW	FHPD130FF111495
TOTAL											
											IMPROPER LANE
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
	26	0	5	21	3	2	3	11	1	0	
	%	0%	19%	81%	12%	8%	12%	42%	4%	0%	
	,,,	2.0		2=/6	,	2,0	==/0	.=/*	1,70	0,6	FAIL TO OBEY
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL
	1	1	21	5	1	25	0	7	1	11	1
	4%	4%	81%	19%	4%	96%	0%	27%	4%	42%	
	470	7/0	01/0	13/0	7/0	5070	070	21/0	1 470	1 42/0	470

LOCATION: Oak Ridge Rd at Rio Grande Ave YEAR: 2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



CRASH	SU	JMN	ΛA	RY

	014 (011 00)(11/1/1								
	PROP. DMG ONLY	INJURY	FATAL	TOTAL					
DAYTIME	21	3	0	24					
NIGHTTIME	5	2	0	7					
TOTAL	26	5	0	31					

						Cra	sh Summa					
Locatio								Intersection Control: Stop signs on Rose/Flashing signal overhead				
	cting Route:	ROSE AVENUE					Prepared by: CNL					
Study P	eriod From:	2013					County:	Orange				
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	PROPERTY DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT	
1	2/7/2011	Mon	3:11 PM	Right Turn	No	No	\$6,500	Clear	Daylight	Fail to Yield ROW	FHPD110FF01024	
2	3/4/2011	Fri	10:29 PM	ŭ	No	Yes	\$12,250	Rain	Dark - Lighted	Ran Stop Sign	ORCC110FF00018	
3	5/6/2011	Fri		Off Road	No	No	\$1,000	Clear	Daylight	Unknown	FHPD110FF03720	
4	6/8/2011	Wed	11:15 AM	Angle	No	No	\$10,000	Clear	Daylight	Fail to Yield ROW	FHPD110FF04674	
5	6/19/2011	Sun	11:15 AM		No	Yes	\$16,000	Clear	Daylight	Fail to Yield ROW	FHPD110FF05000	
6	7/15/2011	Fri	4:46 PM		No	No	\$7,000	Rain	Daylight	Fail to Yield ROW	FHPD110FF05809	
7	10/15/2011	Sat	8:51 PM		No	Yes	\$6,000	Clear	Dark - Lighted	Fail to Obey Signal	FHPD110FF08606	
8	11/30/2011	Wed	6:40 PM	_	No	No	\$5,000	Clear	Dark - Lighted	Fail to Obey Signal	FHPD110FF09933	
9	2/10/2012	Fri		Left Turn	No	No	\$1,000	Rain	Dark - Not Lighted	Improper Turn	FHPD120FF01098	
10	3/1/2012	Thu		Right Turn	No	No	\$900	Clear	Daylight	Fail to Yield ROW	FHPD120FF01709	
11	5/12/2012	Sat		Left Turn	No	No	\$850	Clear	Daylight	Ran Stop Sign	FHPD12OFF03987	
12	5/25/2012	Fri	7:29 AM		No	No	\$11,000	Clear	Daylight	Fail to Yield ROW	FHPD12OFF04382	
13	7/24/2012	Tue	1:39 PM		No	No	\$3,200	Clear	Daylight	Fail to Yield ROW	FHPD12OFF06270	
14	9/18/2012	Tue	2:05 PM	ŭ	No	Yes	\$15,000	Rain	Daylight	Ran Stop Sign	FHPD12OFF08002	
15	10/5/2012	Fri		Left Turn	No	No	\$10,000	Cloudy	Dusk	Fail to Yield ROW	FHPD12OFF08563	
16	10/19/2012	Fri	12:25 PM		No	No	\$1,500	Clear	Daylight	Ran Stop Sign	FHPD12OFF08963	
17	12/8/2012	Sat	10:32 PM		No	No	\$6,500	Clear	Dark - Lighted	Fail to Yield ROW	FHPD12OFF10445	
18	12/8/2012	Sat	8:12 AM		No	No	\$10,000	Cloudy	Daylight	Ran Stop Sign	FHPD120FF10423	
19	6/5/2013	Wed	7:13 PM	ŭ	No	Yes	\$6,800	Cloudy	Dawn	Ran Stop Sign	FHPD13OFF04673	
20	9/6/2013	Fri	6:21 PM	,	No	No	\$16,000	Rain	Daylight	Fail to Obey Signal	FHPD13OFF07682	
21	9/16/2013	Mon	7:54 AM		No	Yes	\$22,000	Clear	Daylight	Fail to Yield ROW	FHPD130FF07958	
22	10/1/2013	Tue	6:15 PM		No	No	\$3,800	Clear	Daylight	Fail to Yield ROW	FHPD130FF08434	
23	12/6/2013	Fri	11:56 AM		No	No	\$600	Clear	Daylight	Careless Driving	FHPD130FF10405	
	12/0/2013		11.507111	On Roda	110		7000	Cicui	Dayiigiic	Carcicas Briving	1111 213011 10403	
TOT AL												
TOTAL											IMADDODED LANE	
TOTAL	-	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	IMPROPER LANE CHANGE	
	23	0	6		15	4	2	0	0			
	%	0%	26%	74%	65%	17%	9%	0%	0%	0%	1	
											FAIL TO OBEY	
											SIGNAL/RAN STO	
ONE VE		PED/BIKE	DAY	DUSK/NIGH	WET	DRY	SPEEDIN	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGN	
	2	0	17		5		0	11		g		
	9%	0%	74%	26%	22%	78%	0%	48%	0%	39%	3	

LOCATION: Rio Grande Avenue at Rose Avenue YEAR: 2011-2013



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



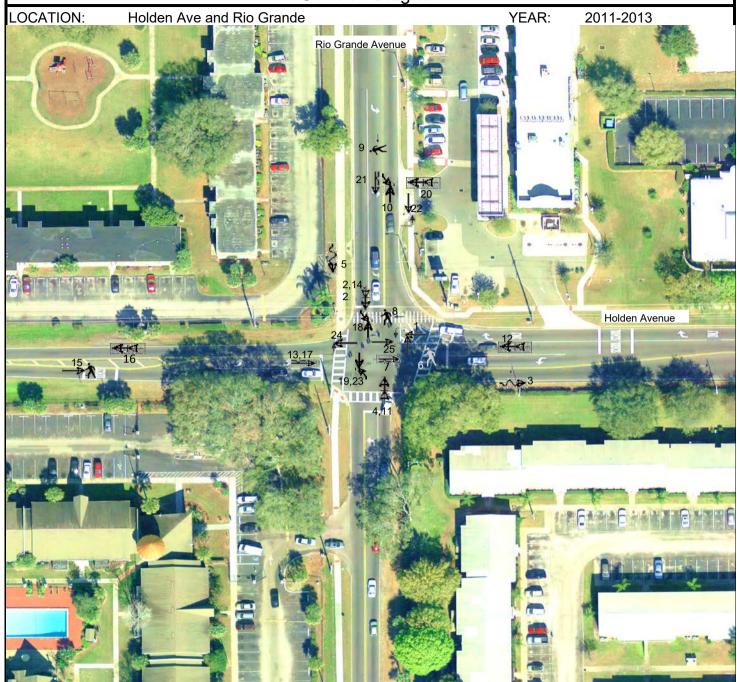
REAR-END COLLISION
HEAD-ON COLLISION
OVERTURNED VEHICLE
LEFT TURN COLLISION
RIGHT ANGLE COLLSION



			• •	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	13	4	0	17
NIGHTTIME	4	2	0	6
TOTAL	17	6	0	23

						Cr	ash Summ	ary			
Location: HOLDEN AVENUE					Intersection Control: Signalized						
Intersecting Route: S RIO GRANDE AVENUE				Prepared by:							
Study Period From: 2011 - 2013					County: Orange						
					PROPERTY PROPERTY						
NO	DATE	DAY	TIME	TYPE	FATAL	INJURY	DAMAGE	WEATHER	DAY/NIGHT	CONTRIBUTING CAUSE	ACCIDENT REPORT #
1	2/1/2011	Tues	6:20 PM	Angle	No	Yes	\$6,000	Clear	Daylight	Failure to Stop at Signal	FHPD11OFF008652
2	3/2/2011	Wed	12:15 PM	Rear End	No	No	\$2,000	Clear	Daylight	Careless Driving	FHPD110FF017114
3	4/23/2011	Sat	3:32 AM	Off Road	No	No	\$21,000	Clear	Dark - Not Lighted	Careless Driving	FHPD110FF033370
4	8/3/2011	Wed	6:42 PM	Rear End	No	No	\$700	Clear	Daylight	Careless Driving	FHPD110FF063922
5	9/3/2011	Sat	2:39 AM	Off Road	No	No	\$3,500	Clear	Dark - Lighted	Careless Driving	FHPD110FF073157
6	9/25/2011	Sun	5:48 PM	Pedestrian	No	Yes	\$15	Clear	Daylight	Fail to Yield ROW	FHPD110FF079909
7	10/14/2011	Fri	3:44 PM	Sideswipe	No	No	\$300	Clear	Daylight	Improper Lane Change	FHPD110FF085645
8	10/28/2011	Fri	4:33 PM	Pedestrian	No	Yes	\$0	Cloudy	Daylight	Collision w Ped	FHPD110FF089732
9	11/8/2011	Tues	5:25 PM	Pedestrian	No	Yes	\$1,000	Clear	Dusk	Fail to Yield ROW	FHPD110FF092882
10	12/27/2011	Tues	7:25 PM	Left Turn	No	Yes	\$6,500	Clear	Dusk	Fail to Yield ROW	FHPD110FF107233
11	1/16/2012	Mon	9:48 AM	Rear End	No	No	\$950	Clear	Daylight	Careless Driving	FHPD12OFF003945
12	1/17/2012	Tues	7:22 PM	Rear End	No	Yes	\$0	Clear	Dark - Not Lighted	Careless Driving	FHPD12OFF004321
13	1/20/2012	Fri	3:05 PM	Sideswipe	No	No	\$10,000	Clear	Daylight	Careless Driving	FHPD12OFF005100
14	4/6/2012	Fri	6:55 PM	Rear End	No	No	\$4,500	Clear	Dusk	Careless Driving	FHPD12OFF029347
15	5/29/2012	Tues	5:42 PM	Pedestrian	No	No	\$100	Rain	Daylight	Ped run into street	FHPD12OFF045319
16	8/20/2012	Mon	11:40 AM	Rear End	No	Yes	\$200	Clear	Daylight	Careless Driving	FHPD12OFF071056
17	9/10/2012	Mon	8:27 AM	Other	No	No	\$1,100	Clear	Daylight	Stalled Vehicle	FHPD12OFF077550
18	9/11/2012	Tues	9:33 PM	Left Turn	No	No	\$7,500	Clear	Dark - Lighted	Fail to Yield ROW	FHPD12OFF078061
19	9/30/2012	Sun	8:47 PM	Left Turn	No	No	\$2,500	Clear	Dark - Lighted	Fail to Yield ROW	FHPD12OFF083783
20	10/8/2012	Mon	4:38 PM	Rear End	No	No	\$800	Clear	Daylight	Careless Driving	FHPD12OFF086420
21	10/9/2012	Tues	10:50 AM	Sideswipe	No	No	\$2,200	Clear	Daylight	Fail to Yield ROW	FHPD12OFF086622
22	1/26/2013	Sat	4:36 PM	Left Turn	No	No	\$2,500	Clear	Daylight	Careless Driving	FHPD130FF007097
23	3/17/2013	Sun	8:15 PM	Left Turn	No	Yes	\$11,000	Cloudy	Dark - Not Lighted	Fail to Yield ROW	FHPD130FF022037
24	10/20/2013	Sun	3:15 AM	Left Turn	No	No	\$1,500	Clear	Dark - Not Lighted	Fail to Yield ROW	FHPD13OFF089820
25	11/9/2013	Sat	4:44 AM	Left Turn	No	No	\$4,000	Clear	Dark - Lighted	Fail to Yield ROW	FHPD130FF095771
26	12/17/2013	Tues	11:14 AM	Rear End	No	No	\$5,500	Clear	Daylight	Careless Driving	FHPD130FF107333
TOTAL											
											IMPROPER LANE
TOTAL	NO	FATAL	INJURY	PDO	ANGLE	LEFT	RIGHT	REAR END	SIDE SWIPE	HEAD ON	CHANGE
	26	0	8	18	1	7	0	8	3	0	1
	%	0%	31%	69%	4%	27%	0%	31%	12%	0%	0%
											FAIL TO OBEY
ONE VE	HICLE	PED/BIKE	DAY	DUSK/NIGHT	WET	DRY	SPEEDING	FTY R/W	ALCOHOL/DRUGS	DISTRACTED	SIGNAL
Ī	2	4	15	11	1	25	0	9	0	10	1
	8%	15%	58%	42%	4%	96%	0%	35%	0%	38%	4%

Orange County Traffic Engineering Division Collision Diagram



COLLISION SYMBOLS



VEHICLE PATH
BACKING VEHICLE
PARKED VEHICLE
FATALITY
RIGHT TURN COLLISION



REAR-END COLLISION HEAD-ON COLLISION OVERTURNED VEHICLE LEFT TURN COLLISION RIGHT ANGLE COLLSION



FIXED OBJECT
OUT OF CONTROL
SIDE SWIPE
PEDESTRIAN COLLISION
BICYCLIST COLLISION

CRASH SUMMARY

			•	
	PROP. DMG ONLY	INJURY	FATAL	TOTAL
DAYTIME	11	4	0	15
NIGHTTIME	7	4	0	11
TOTAL	18	8	0	26

Rio Grande Avenue

General

No.	From	То	Cross Street	Direction	Problem	Severity (L, M, H)	Photo Name	
NO.	FIOIII				Frobleiii	Solution	(L, IVI, II)	SGN cl 205.jpg
1	n/a	n/a	33rd Street	all	No street name signs	Install street name signs	L	<u>3GN Cl 205.jpg</u>
2	n/a	n/a	33rd Street	NB	OCSO sign is old and faded	Replace double-sided sign	L	SGN cl 270.jpg
3	just south of	n/a	33rd Street	SB	tree branches reduce visibility of LYNX bus stop sign	Trim tree branches	L	VIS cl 204.jpg
4	just south of	n/a	33rd Street	NB	litter around bus stop ID 2317	request LYNX install trash can	L	CRM cl 269.jpg
5	n/a	n/a	34th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 268.jpg
6	n/a	n/a	35th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	ADA cl 265.jpg
7	n/a	n/a	36th Street	EB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 274.jpg
8	n/a	n/a	36th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 262.jpg
9	100' south of	n/a	36th Street	NB	palm tree branch hangs too low over sidewalk	Trim tree branches	L	ADA cl 259.jpg
10	n/a	n/a	37th Street (N)	EB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 276.jpg
11	approx. 100' south of	n/a	37th Street (N)	SB	palm tree branch hangs too low over sidewalk	Trim tree branches	L	ADA cl 277.jpg
12	n/a	n/a	37th Street (S)	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 256.jpg
13	n/a	n/a	38th Street	NE corner	tree branches hang too low over sidewalk	Trim tree branches	L	ADA cl 253.jpg
14	n/a	n/a	38th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 252.jpg
15	50' south of	n/a	38th Street	NB	vegetation with thorns hangs low over sidewalk	Trim tree branches	L	ADA cl 249.jpg
16	n/a	n/a	39th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 247.jpg
17	n/a	n/a	40th Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 242.jpg
18	n/a	n/a	41st Street	EB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 280.jpg
19	n/a	n/a	41st Street	WB approach	stop bar is faded and there is no pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	PMS cl 241.jpg
20	80' north of	n/a	42nd Street	NB	No 5' X 8' B&A area for LYNX Bus Stop ID 2314	Discuss possible relocation of bus stop with LYNX	L	ADA cl 240.jpg
24	70/0	n/a	40md Ctup at	WB	stop bar is amost completely faded and there is no marked pedestrian crosswalk; also stop bar is located at pedestrian curb ramps	Add crosswalk and relocate stop bar 4 feet behind crosswalk	L	PED cl 239.jpg
21	n/a	n/a	42nd Street	approach WB	vegetation hangs low over sidewalk on north side of		_	ADA cl 203.jpg
22	n/a	n/a	43rd Street	approach EB	street brush is so thick on SE corner that visibility is	trim back vegetation	L	
23	n/a	n/a	43rd Street	departure	reduced	trim back vegetation	М	VIS cl 201.jpg
24	n/a	n/a	Texas Avenue	SE corner	No crosswalk across south leg and no pedestrian signal, but a signal pushbutton and sign exists on pole in SE corner.			PED cl 200.jpg
25	n/a		Texas Avenue	Pedestrian pushbutton to cross 43rd Street		Repair pedestrian pushbutton	L M	PED cl 202.jpg
		n/a		NB				VIS cl 207.jpg
26	n/a	n/a	Texas Avenue	approach	Oak tree branches reduce visibility of signal heads	Trim tree branches	Н	<u>vio di 201.jpg</u>

				-				
27	n/a	n/a	Texas Avenue	NE corner	Pedestrian pushbutton to cross east leg southbound doesn't work	Repair pedestrian pushbutton	М	PED cl 202.jpg
	11/4	11/4	TOXAG / WORLD	TVE COTTION	Pedestrian pushbutton to cross Rio Grande	riopan podostrian paoribation		
	,	,			eastbound doesn't work and the pedestrian signal	Repair pedestrian pushbutton and add pushbutton		PED cl 283.jpg
28	n/a approx. 160' south	n/a	Texas Avenue	NW corner	sign is missing Bus Stop ID 2251 has a lot of litter and the sprinkler	sign	М	
29	of	n/a	44th Street	SB	head is a trip hazard	request LYNX install trash can	L	CRM cl 285.jpg
				WB .	stop bar is amost completely faded and there is no			PMS cl 238.jpg
30	n/a	n/a	44th Street	approach WB	marked pedestrian crosswalk	re-stripe stop bar and add crosswalk	L	<u>r me er 200.jpg</u>
31	across from	n/a	45th Street	approach	tree branches too low over sidewalk	Trim tree branches	L	ADA cl 285.jpg
	approx. 390' south	,	450.00	ND	hole adjacent to sidewalk near drainage inlet across	CILL I		PED cl 237.jpg
32	of	n/a	45th Street	NB	street from Lakeview Pointe apartments entrance tree branches too low over sidewalk, just north of	fill hole	L	
33	370' north of	n/a	Holden Avenue	NB	2nd Chevron driveway	Trim tree branches	L	PED cl 235.jpg
24	approx. 180' north	-/-	Haldan Avanua	SB	Pue eten ID 2252 has a let of litter	Degreet LVNV install track con		CRM cl 290.jpg
34	of	n/a	Holden Avenue	36	Bus stop ID 2252 has a lot of litter	Request LYNX install trash can investigate whether signal heads on the same	L	
35	n/a	n/a	Holden Avenue	EB & WB	Signal heads have no backplates; E/W approaches	hanger can have backplates installed EB/WB	L	VIS cl 297.jpg
36	2/0	n/a	Holden Avenue	EB	Oak tree branches reduce visibility of signal heads	Trim tree branches	н	VIS_cl_296.jpg
30	n/a	II/a	Holdell Aveilue	ED	Oak tree pranches reduce visibility of signal heads	min tree prancties	П	4D4 1 0001
37	n/a	n/a	Holden Avenue	NE corner	Tree branches are too low over sidewalk	Trim tree branches	L	ADA cl 233.jpg
38	n/a	n/a	Holden Avenue	NE corner	White walk symbol is not appearing to cross Holden NB	Repair pedestrian signal	М	PED cl 232.jpg
30	II/a	II/a	Holdell Aveilue	INC COITIEI	School crossing guard says pedestrian push button	rtepali pedestrian signal	IVI	PED 1 0001
39	n/a	n/a	Holden Avenue	NW corner	to cross Rio Grande works about 50% of the time	Repair pedestrian push button	М	PED cl 208.jpg
40	n/a	n/a	Holden Avenue	NB approach	tree branches reduce visibility of signal heads	Trim tree branches	н	VIS cl 212.jpg
40	II/a	II/a	Holdell Aveilde	арргоасп	No parking sign has double arrows, but signs	min tree branches	"	001 1 040
41	approx. 50' south of	n/a	Holden Avenue	west side	marking ends of zone are missing	Install no parking signs showing limits of zone	L	SGN cl 210.jpg
42	approx. 410' south of	n/a	Holden Avenue	NB	pavement edge drop-off at SE corner of apartment complex driveway	repair drop-off	L	PAV cl 231.jpg
			Tiolacii 7 (Voliac		, ,	Topan Grop on	_	PAV cl 229.jpg
43	65' north of	n/a	Honour Road	NB	crumbling pavement; losing edge line	repair pavement	L	<u>r AV Cr 229.jpg</u>
44	n/a	n/a	Honour Road	SB	Stop sign is missing 3-way panel	Missing 3-way panel under stop sign	М	SGN kb 281.jpg
	,	,	5 .					PMS kb 280.jpg
45	n/a	n/a	Honour Road	NB	double yellow pavement markings are faded tree branches reduce visibility of one-way arrow	refresh double yellow pavement markings	L	
46	n/a	n/a	Honour Road	SB	panel and dead end sign	trim tree branches	М	SGN kb 319.jpg
47	-1-	n/a	Hanaum Daad	NB	atom aims in tiltad	was at a tan aine and tring trace bronches around	L	SGN kb 320.jpg
47	n/a	II/a	Honour Road	IND	stop sign is tilted	reset stop sign and trim tree branches around		
48	n/a	n/a	Americana Boulevard	SE corner	Signal pull box sinking causing trip hazard	raise pullbox or grind edges for smooth transition	L	ADA KB 1.jpg
49	approx. 50' south of	n/a	Lake Heritage Circle	NB	Bus stop ID 2879 sign is down	request LYNX re-install sign	L	SGN RN 201.jpg
70	approx. 50' south	11/4	Lake Heritage Officie	140	Dud dtop 1D 2010 digit to down			CRM RN 202.jpg
50	of approx. 50' south	n/a	Lake Heritage Circle	NB	Bus stop ID 2879, the shelter does not have lighting Bus stop ID 2879, the additional bench blocks	request that LYNX install lighting	М	CKIVI KIN ZUZ.JPG
51	approx. 50' south of	n/a	Lake Heritage Circle	NB	access from the sidewalk	request that LYNX relocate bench	L	ADA RN 203.jpg
	approx. 50' south					·	-	CRM RN 204.jpg
52	of approx. 140' north	n/a	Lake Heritage Circle	NB	Bus stop ID 2879, the bus shelter roof needs repair drainage issue at manhole in front of Andover Place	request that LYNX repair shelter roof	L	
53	of	n/a	Ole Heritage Circle	SB	Apartments	refer to Orlando Utilities	L	PAV RN 298.jpg
	,		Ĭ		drainage issue at manhole in front of Andover Place			PAV RN 299.jpg
54	n/a	n/a	Ole Heritage Circle	SB	Apartments	refer to Orlando Utilities	L	
55	approx. 50' north of	n/a	Blossom Terrace	SB	tree canopy too low over sidewalk	Trim tree branches	L	ADA RN 215.jpg
50	!	/	DI T	WB	ma atau ainu ant af bila ba			SGN cl 216.jpg
56	n/a	n/a	Blossom Terrace	approach	no stop sign out of mobile home park tree branches reduce visibility of school crossing	request owner to install stop sign	М	
57	just south of	n/a	Blossom Terrace	NB	sign	Trim tree branches	Н	SGN cl 213.jpg
FO	approx. 100' north	n/s	Placeom Terrans	NID	tree branches reduce visibility of advance school	Trim tree branches	LI .	SGN cl 215.jpg
58	of	n/a	Blossom Terrace	NB	crossing sign	min nee branches	Н	

	1	1		1				
59	approx. 75' north of	n/a	Rose Boulevard	NB	pavement edge drop-off	repair drop-off	М	PAV cl 214.jpg
60	n/a	n/a	Rose Boulevard	WB approach	trees reduce visibility of on-coming southbound vehicles	trim trees		VIS cl 223.jpg
00	n/a	rı/a	Rose Boulevard	approacn WB	fence with vines and trash (mattress and couch)	uim uees	L	
61	n/a	n/a	Rose Boulevard	approach	block view of northbound vehicles	request that property owner keep line of sight clear	М	VIS cl 224.jpg
	11/4	11/4	11000 Bodiovara	арріоцоі.	DISSICTION OF HOLDING VEHICLES	install crosswalks parallel to Rio Grande both sides	.,,	
62	n/a	n/a	Rose Boulevard	W & E side	no painted crosswalk	of the road	L	PED cl 225.jpg
				EB	trees reduce visibility of on-coming southbound			VIIC at 226 in a
63	n/a	n/a	Rose Boulevard	approach	vehicles	trim trees	М	VIS-cl 226.jpg
				SB				VIS cl 227.jpg
64	n/a	n/a	Rose Boulevard	approach	trees reduce visibility of flashing beacon	Trim tree branches	Н	<u> </u>
	approx. 190' south					reset sign and add end arrow signs to complete no		sgn kb 1.jpg
65	of	n/a	Rose Boulevard	SB WB	no parking sign leaning and missing limits	parking zone	L	SAL US 1-1ER
	/	,			akan alam basalan and blashad basasa	and the state of t		vis kb 1.jpg
66	n/a approx. 100' north	n/a	Michael Terrace	approach	stop sign leaning and blocked by trees	reset sign and trim trees	Н	
67	of	n/a	Rose Boulevard	SB	tree canopy too low over sidewalk	trim tree branches		ADA RN 214.jpg
67	OI .	n/a	Rose Boulevard	36	tree carlopy too low over sidewark	tilli tree branches	L	
68	approx. 25' north of	n/a	Rose Boulevard	SB	Bus stop ID 2813, a lot of litter	request LYNX provide trash can at bus stop	1	CRM RN 212.jpg
- 00	approx. 10' south	II/a	1103e Doulevalu	OB	speed limit sign 14' off of roadway and blocking	request ETTAX provide trasificant at bus stop		
69	of	n/a	Wakulla Way	NB	LYNX sign	relocate speed limit sign to north of Wakulla Way	1	sgn kb 2.jpg
	approx. 150' south		Trantana Tray		ag			
70	of	n/a	Wakulla Way	SB	tree canopy too low over sidewalk	trim tree branches	L	ADA RN 211.jpg
	approx. 330' south		,		.,			ADA DNI 200 in t
71	of	n/a	Wakulla Way	SB	tree canopy too low over sidewalk	trim tree branches	L	ADA RN 209.jpg
	approx. 650' north	İ	•	WB	stop sign completely faded to white at driveway from			SGN cl 217.jpg
72	of	n/a	Oak Ridge Road	approach	Weatherly at Central Park apartments	request property owner to replace stop sign	М	GGN CI Z17.jpg
		560' north						PAV cl 222.jpg
73	420' north of	of	Oak Ridge Road	SB	poor pavement condition	repair pavement	М	1 AV 01 222.jpg
	approx. 390' north	,	0 1 5 1 5 1	0.0				PAV cl 221.jpg
74	of	n/a	Oak Ridge Road	SB	pavement edge drop-off	repair drop-off	М	5 99
75	approx. 100' north	-/-	Oak Bides Da	NB	vegetation pretrudes herizontally into aid swells not	trim vogetation		ADA RN 208.jpg
75	of	n/a	Oak Ridge Road	NR	vegetation protrudes horizontally into sidewalk path pavement depression across crosswalk across Rio	trim vegetation	L	
76	n/a	n/a	Oak Ridge Road	north leg	Grande Avenue north side	repair pavement		PAV cl 218.jpg
70	II/a	II/a	Oak Riuge Road	normeg	Grande Avenue norm side	upgrade crosswalk to high-emphasis crosswalk	L	
77	n/a	n/a	Oak Ridge Road	north leg	crosswalk does not meet current standard	when resurfaced	1	PMS cl 219.jpg
- ' '	II/a	II/a	Oak Muye Moau	normeg	Grosswaik does not meet current standard	WIICH ICSUITACCU	L	
78	n/a	n/a	Oak Ridge Road	SW corner Sign post foundation, but no sign		Research what sign is missing.	1	SGN cl 220.jpg
,,,	11/4	11/4	Sait Hago Houd	Olgii post loulidation, but no sign		. 1300dron what orgin to missing.	_	
79	n/a	n/a	Oak Ridge Road	SE corner	Hole under curb ramp	fill hole	L	PED RN 175.jpg
			•					

Rio Grande Avenue

Sidewalk and ADA Issues

No.	From	То	Cross Street	Direction	Problem	Solution	Severity (L, M, H)	Photo Name
1	n/a	n/a	34th Street	NE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 267.jpg
2	n/a	n/a	35th Street	SE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 264.jpg
3	n/a	n/a	35th Street	NE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 266.jpg
4	170' south of	n/a	35th Street	NB	Retaining wall at edge of sidewalk is falling apart; no 4-foot PAR	repair retaining wall	L	ADA cl 263.jpg
5	n/a	n/a	36th Street	SE corner	curb ramp is covered in dirt and needs truncated dome mats	L	ADA cl 260.jpg	
6	n/a	n/a	36th Street	NE corner	curb ramp is covered in dirt and needs truncated dome mats	L	ADA cl 261.jpg	
7	n/a	n/a	36th Street	NW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA cl 272.jpg
8	n/a	n/a	36th Street	SW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA cl 273.jpg
9	n/a	n/a	37th Street (N)	SW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA cl 275.jpg
10	n/a	n/a	37th Street (S)	NE corner	curb ramp is completely covered in grass and leaves	clear curb ramp of debris and install truncated dome mat	L	ADA cl 255.jpg
11	150' south of	n/a	37th Street (S)	NB	no 4-foot PAR due to dirt and pine needles over sidewalk	clear sidewalk	L	ADA cl 254.jpg
12	25' north of	n/a	37th Street (S)	NB	Retaining wall at edge of sidewalk is falling apart	repair retaining wall	L	ADA cl 258.jpg
13	just north of	n/a	37th Street (S)	NB	Retaining wall at edge of sidewalk is falling apart into sidewalk	repair retaining wall	L	ADA cl 257.jpg
14	n/a	n/a	38th Street	SE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 250.jpg
15	n/a	n/a	38th Street	NE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 251.jpg
16	across from	n/a	38th Street	SB	cracked sidewalk panel	repair sidewalk	L	PED cl 278.jpg
17	60' south of	n/a	38th Street	SB	cracked sidewalk panel	repair sidewalk	L	ADA cl 279.jpg
18	65' south of	n/a	38th Street	NB	no 4-foot PAR due to grass grown over sidewalk and steep slope from driveway to road	remove grass over sidewalk	L	ADA cl 248.jpg
19	approx. 70' north of	n/a	39th Street	NB	Retaining wall at edge of sidewalk is falling apart	repair retaining wall	L	CRM cl 244.jpg
20	n/a	n/a	39th Street	SE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 245.jpg
21	n/a	n/a	39th Street	NE corner	ramp is not ADA compliant, no truncated dome mats	construct curb ramp that meets ADA criteria	L	ADA cl 246.jpg
22	n/a	n/a	40th Street	NB	at 3905 driveway, grass and dirt are overgrown sidewalk and reducing PAR to less than 4'	remove grass over sidewalk	L	ADA cl 243.jpg
23	n/a	n/a	40th Street	NW corner	ramp without truncated dome mats	L	ADA cl 281.jpg	
24	n/a	n/a	40th Street	SW corner	ramp without truncated dome mats	L	ADA cl 282.jpg	
25	80' north of	n/a	42nd Street	NB	No 4' PAR due to utility pole in 4' sidewalk	Investigate relocation of utility pole, possible easement on residential property	L	ADA cl 240.jpg
26	80' north of	n/a	42nd Street	NB	No 5'X8' B&A area for LYNX Bus Stop ID 2314	Discuss possible relocation of bus stop with LYNX	L	ADA cl 240.jpg
27	approx. 160' south of	n/a	44th Street	SB	sprinkler head is a trip hazard	possibly remove sprinkler head (no grass)	L	ADA cl 286.jpg

28	120' south of	n/a	Texas Avenue	SB	cracked sidewalk panel	repair sidewalk	L	ADA cl 284.jpg
29	n/a	n/a	Texas Avenue	SW corner	sidewalk curb ramp out of tolerance	construct curb ramp that meets ADA criteria	L	ADA RN 101.jpg
30	n/a	n/a	Texas Avenue	NE corner	sidewalk is 4' adjacent to curb; standard is 6'	Construct 6' sidewalk where R/W permits or where easements can be obtained	М	PED RN 104.jpg
31	n/a	n/a	Texas Avenue	NW corner	sidewalk curb ramp is out of tolerance and does not have truncated dome mat	construct curb ramp that meets ADA criteria including truncated dome mat	L	ADA RN 105.jpg
32	455' north of	n/a	Holden Avenue	NB	cracked sidewalk panel	repair sidewalk	L	PED cl 236.jpg
33	450' north of	n/a	Holden Avenue	SB	sidewalk ramps at Royal Springs have very steep running slope	reconstruct sidewalks with ADA compliant running slope	L	ADA cl 289.jpg
34	approx. 200' south of	n/a	Holden Avenue	SB	cracked sidewalk panels	repair sidewalk	1	PED cl 291.jpg
	approx. 475' south				LYNX bus stop NB on east side does not have 4'	move bench to provide 4' PAR and consider adding		ADA cl 230.jpg
35	of approx. 580' south	n/a	Holden Avenue	NB	PAR and is not level cracked sidewalk panels north of London Pointe	concrete pad	L	
36	of approx. 670' south	n/a	Holden Avenue	SB	apartments entrance sidewalk drop-off south of London Pointe	repair sidewalk	L	ADA cl 292.jpg
37	of	n/a	Holden Avenue	SB	apartments entrance	consider pedestrian handrail	L	PED cl 293.jpg
38	approx. 720' south of	n/a	Holden Avenue	SB	cracked sidewalk panels with vertical discontinuity, trip hazard	repair sidewalk	L	ADA cl 294.jpg
39	n/a	n/a	Holden Avenue	SW corner	Detectable warning mat does not extend the full with of the ramp run	fill in the gaps or wait for Holden widening project	L	ADA cl 291.jpg
					PAR for pedestrians on WB Holden to pedestrian push button not 4' minimum due to curb inlet above			ADA cl 209.jpg
40	n/a	n/a	Holden Avenue	SE corner	grade, utility post, etc. No curb cut ramps. Person in motorized wheelchair observed to have difficulty.	Install sidewalk and curb ramps	М	ABA OF 200.jpg
					,	700' sidewalk to be installed with Holden widening;		PED cl 211.jpg
41	Honour Rd	n/a	Holden Avenue	east side	heavily used goat path and no sidewalk broken sidewalk with vertical discontinuity, trip	may need maintenance plat for remaining sidewalk	М	
42	180' north of approx. 470' south	n/a	Honour Road	SB	hazard no curb cut ramps at 5401 S. Rio Grande Driveway,	repair sidewalk	М	ADA cl 295.jpg
43	of approx. 150' south	n/a	Americana Boulevard	NB	tennis courts	request OCPS to install ADA ramps	L	ADA RN 204.jpg
44	of	n/a	Lake Heritage Circle	NB	mailbox protrudes horizontally over sidewalk sidewalk curbing on east side limits width to 3'8",	request property owner to relocate mailbox	L	ADA RN 205.jpg
45	approx. 160' south of	n/a	Lake Heritage Circle	NB	need 4' PAR	remove portion of curb	L	ADA RN 200.jpg
46	approx. 410' south of	n/a	Lake Heritage Circle	NB	sidewalk curbing on east side limits width to 3'9", need 4' PAR	remove portion of curb	L	ADA RN 206.jpg
47	approx. 430' south of	n/a	Lake Heritage Circle	NB	church fencing poles on east side limits sidewalk access to 3'9", need 4' PAR	request that property owner relocate fence pole on site		ADA RN 207.jpg
			, and the second				L	ADA RN 176.jpg
48	n/a	n/a	Blossom Terrace	SW corner	ramp without truncated dome mats	install truncated dome mats	L	
49	n/a	n/a	Blossom Terrace	NW corner	ramp without truncated dome mats foundation for missing pedestrian handrail in	install truncated dome mats grate poses no observable hazard/need for handrail;	L	ADA RN 177.jpg
50	approx. 20' north of	n/a	Rose Boulevard	SB	sidewalk adjacent to grate	remove foundation plates which poses trip hazard	L	ADA cl 228.jpg
51	n/a	n/a	Rose Boulevard	NW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 167.jpg
52	n/a	n/a	Rose Boulevard	SW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 168.jpg
53	approx. 10' south of	n/a	Michael Terrace	SB	vertical discontinuity between sidewalk panels; trip hazard	repair sidewalk	L	ADA RN 213.jpg
54	approx. 180' south of	n/a	Michael Terrace	SB	Sidewalk drop-off in front of 5656 address	fill edge of sidewalk	L	ada kb 3.jpg
55	approx. 150' south of	n/a	Wakulla Way	SB	cracked sidewalk with vertical discontinuity; trip hazard	repair sidewalk	L_	ADA RN 212.jpg
56	approx. 200' south of	n/a	Wakulla Way	SB	cracked sidewalk with vertical discontinuity; trip hazard	repair sidewalk	L	ADA RN 210.jpg
57	approx. 360' north	n/a	Oak Ridge Road	NB	sidewalk ends on the east side	Investigate whether sidewalk can be constructed on east side from approx. 360' north of Oak Ridge Road to approx. 600' north of Nimrod Lane	L	PED cl 009.jpg
		, u	Jango i toda		Statistic Strate Strate Guer Glad	to application testino testino Latio		

58	n/a	n/a	Oak Ridge Road	SE corner	Hole under curb ramp	fill hole	L	PED RN 175.jpg
59	n/a	n/a	Oak Ridge Road	SW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 173.jpg
60	n/a	n/a	Oak Ridge Road	SE corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 174.jpg
61	n/a	n/a	Oak Ridge Road	NE corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 170.jpg
62	n/a	n/a	Oak Ridge Road	NW corner	ramp without truncated dome mats	install truncated dome mats	L	ADA RN 171.jpg

D. Honour Road

Existing Conditions

Honour Road is a two-lane undivided roadway running east-west from Texas Avenue to Rio Grande Avenue. The road has an urban section and serves residential uses including apartments and condominiums. The speed limit is 30 miles per hour throughout.

Sidewalk exists on both sides of the road. Pavement markings consist of double yellow centerline and white edge lines for the length of the road. Overhead utilities and roadway lighting exist on the east side of Honour Road. There are no bike lanes.

Crash History and Analysis

Crash summaries and crash diagrams were prepared for the key study intersections within the study area. The crash summary and diagram for the intersection of Honour Road with Texas Avenue can be found under the Texas Avenue section of this report. The crash summary and crash diagram depicts crashes for three years (2011-2013).

Recommended Countermeasures

The following tables list the recommended improvements for Honour Road. The first table lists the general recommendations and the second table lists sidewalk and ADA-related issues.

There are no items believed to be a high safety priority along Honour Road. Some improvements to signing and pavement markings are recommended at the intersection of Honour Road and Adventura Boulevard, including upgrading the Adventura Boulevard end-of-road treatment in accordance with FDOT Index 17349.

For the intersection of Honour Road and Rio Grande Avenue it is recommended that sidewalk be constructed to fill the gap on the south side of Honour Road to Rio Grande and that curb ramps and crosswalks be installed. It is also recommended that the Honour Road end-of-road treatment be upgraded.

Honour Road

General

No.	From	То	Cross Street	Direction	Problem	Solution	Severity (L, M, H)	Photo Name
1	115' east of	n/a	Texas Avenue	WB	palm tree branches hang too low over sidewalk	trim tree branches	L	ADA kb 301.jpg
2	279' east of	320' east of	Texas Avenue	WB	tree branches hang too low over sidewalk	trim tree branches	L	ADA kb 303.jpg
3	512' east of	647' east of	Texas Avenue	WB	tree branches and bushes overgrown sidewalk	trim bushes and tree branches	L	ADA kb 304.jpg
4	25' east of	n/a	Via Hacienda Circle	EB	landscaping needs trimming over sidewalk	trim landscaping	L	ADA RN 319.jpg
5	approx. 150' east of	n/a	Via Alizar Drive	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA RN 323.jpg
6	approx. 500' east of	n/a	Via Alizar Drive	EB	landscaping needs trimming over sidewalk	trim landscaping	L	ADA RN 324.jpg
7	approx. 800' east of	n/a	Via Alizar Drive	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA RN 325.jpg
8	approx. 225' west of	n/a	San Antonio Avenue	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA RN 327.jpg
9	n/a	n/a	San Antonio Avenue	NB	T-intersection needs proper end of road treatment; double arrow panel need to be reset parallel to Honour	install 2 type 1 object markers to the left and one to the right of the double arrow panel in accordance with Index 17349	L	SGN kb 306.jpg
10	n/a	n/a	San Antonio Avenue	south side	no cross walk on south side crossing San Antonio Avenue	install crosswalk	L	PMS RN 330.jpg
11	143' east of	n/a	San Antonio Avenue	EB	landscaping needs trimming over sidewalk	trim landscaping	L	PED RN 331.jpg
12	300' east of	n/a	San Antonio Avenue	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA RN 332.jpg
13	612' east of	n/a	San Antonio Avenue	WB	bushes over sidewalk reduces PAR to less than 4'	trim bushes	L	ADA kb 311.jpg
14	700' east of	n/a	San Antonio Avenue	EB	tree branches hang too low over sidewalk	trim tree branches	L	ADA RN 333.jpg
15	n/a	n/a	Adventura Boulevard	NB	T-interection needs end of road treatment	Install a double arrow panel, 2 type 1 object markers to the left and one to the right of the double arrow panel in accordance with Index 17349	L	SGN kb 313.jpg
16	n/a	n/a	Adventura Boulevard	south side	no cross walk on south side crossing Adventura Boulevard	install crosswalk	L	PMS RN 334.jpg
17	n/a	n/a	Adventura Boulevard	NB	Stop bar is not 2' wide	Re-stripe a 2-foot stop bar.	L	PMS RN 337.jpg
40	4001 th f		Hanana Baad	NIDOOD	mid-block crosswalk is faded and gore markings are		N	PMS kb 314.jpg
18	120' south of	n/a	Honour Road	NB&SB	incorrect Stop Ahead sign is blocking view of LYNX bus stop	markings according to Index 17346, sheet 5 of 14 relocate Stop Ahead sign further upstream to create	M	SGN kb 315.jpg
19	approx. 180' west of		S. Rio Grande Avenue	EB	sign water meter cover near bus stop needs to be re-	view of LYNX bus stop sign	L ,	BCZ kb 316.jpg
20	approx. 150' west of		S. Rio Grande Avenue		attached	contact OC Utilities to re-attach cover	L	PED RN 338.ipg
21	n/a n/a		S. Rio Grande Avenue S. Rio Grande Avenue		hole in ground near stop sign - no drainage pipe T-intersection needs proper end of road treatment	fill hole install 2 type 1 object markers to the left and one to the right of the double arrow panel in accordance with Index 17349	M	SGN kb 318.jpg

Honour Road

Sidewalk and ADA Issues

No.	From	To	Cross Street	Direction	Problem	Solution	(L, M, H)	Photo Name	
1	97' east of	n/a	Texas Avenue	WB	cracked/broken sidewalk	repair sidewalk	L	ADA kb 300.jpg	
2	156' east of	n/a	Texas Avenue	WB	cracked sidewalk with vertical discrepancy between panels; trip hazard	repair sidewalk	L	ADA kb 302.jpg	
3	542' east of	n/a	Texas Avenue	WB	sidewalk with vertical discrepancy; trip hazard	repair sidewalk	L	ADA kb 305.jpg	
4	25' east of	n/a	Via Hacienda Circle	EB	broken sidewalk	repair sidewalk	L	PED RN 320.jpg	
5	n/a	n/a	Via Alizar Drive	EB	gap between sidewalk and driveway both sides	fill gap	L	ADA RN 321.jpg	
6	n/a	n/a	Via Alizar Drive	EB	cracked sidewalk on east side of driveway	repair sidewalk	L	PED RN 322.jpg	
7	approx. 250' west of	n/a	San Antonio Avenue	EB	cracked sidewalk	repair sidewalk	L	PED RN 326.jpg	
8	n/a	n/a	San Antonio Avenue	SW corner	west side curb ramp too steep, out of tolerance	construct ADA-compliant curb ramp including truncated dome mat	L	ADA RN 328.jpg	
9	n/a	n/a	San Antonio Avenue	SE corner	east side curb ramp too steep, out of tolerance	construct ADA-compliant curb ramp including truncated dome mat	L	ADA RN 329.jpg	
10	26' east of	n/a	San Antonio Avenue	WB	cracked sidewalk with vertical discrepancy; trip hazard	repair sidewalk	L	ADA kb 307.jpg	
11	221' east of	n/a	San Antonio Avenue	WB	Bus stop does not have 5'X8' level B&A area; too steep on either side of sidewalk	re-grade to create 8' depth that is level	L	ADA kb 308.jpg	
12	381' east of	n/a	San Antonio Avenue	WB	sidewalk with vertical discrepancy; trip hazard	repair sidewalk	L	ADA kb 309.jpg	
13	516' east of	n/a	San Antonio Avenue	WB	sidewalk with vertical discrepancy; trip hazard	repair sidewalk	L	ADA kb 310.jpg	
14	631' east of	n/a	San Antonio Avenue	WB	cracked/broken curb ramp and curb at Landon Pointe Apartments	repair curb ramp and curb	L	ADA kb 312.jpg	
15	n/a	n/a	Adventura Boulevard	SW corner	curb ramp with no truncated dome mats	install truncated dome mats	L	ADA RN 335.jpg	
16	n/a	n/a	Adventura Boulevard	SE corner	curb ramp too steep and no truncated dome mat	construct ADA-compliant curb ramp including truncated dome mat	L	ADA RN 336.jpg	
17	approx. 150' west of	n/a	S. Rio Grande Avenue	EB	sidewalk ends and goat path continues to Rio Grande	construct sidewalk to Rio Grande	L	PED kb 317.jpg	
18	n/a	n/a	S. Rio Grande Avenue	EB	no curb ramps for a future crosswalk across EB approach	if sidewalk can be constructed on south side to Rio Grande, construct curb ramps in both NW and SW corners	L	PED RN 339.jpg	
19	n/a	n/a	S. Rio Grande Avenue		stop bar too far forward for future crosswalk across EB approach	if sidewalk can be constructed on south side to Rio Grande and curb ramps can be constructed, pull stop bar back and install crosswalk	L	PMS RN 340.jpg	

E. Holden Avenue

Existing Conditions

Holden Avenue is a two-lane undivided roadway running east-west. The study limits for Holden Avenue are from Texas Avenue to Rio Grande Avenue. The cross section is rural and serves residential uses, mainly apartment complexes and condominiums. The speed limit is 35 mph throughout.

There is no existing sidewalk and no bike lanes are provided. Pavement markings consist of double yellow centerline and white edge lines throughout.

Overhead utilities are provided on the north side of Holden Avenue. No roadway lighting currently exists.

Crash History and Analysis

Crash summaries and crash diagrams were prepared for the key study intersections along Holden Avenue. The crash summary and crash diagram for the intersection of Holden Avenue with Texas Avenue can be found under the Texas Avenue section of this report. The crash summary and crash diagram for the intersection of Holden Avenue with Rio Grande Avenue can be found under the Rio Grande section of this report. Crashes for three years are included (2011-2013).

Recommended Countermeasures

The following tables list the recommended improvements for Holden Avenue. The first table lists the general recommendations and the second table lists sidewalk and ADA-related issues.

There are two items believed to be a high priority for Holden Avenue. There was a significant pavement edge drop-off identified in the eastbound direction that has since been repaired. In addition, the condition of LYNX Bus Stop ID 2801 was very poor. There was a large pavement edge drop-off running approximately thirty feet and the bus stop was not ADA accessible. Both of these conditions have been repaired.

Other items which would otherwise be recommended, such as sidewalk, bike lanes, and roadway lighting, are being included in the Holden Avenue construction project.

Holden Avenue

General

							Severity	
No.	From	То	Cross Street	Direction			(L, M, H)	Photo Name
					3 No Parking signs have double arrows, but no signs			SGN kb 400.jpg
1	approx. 438' west of	672' west of	Rio Grande Avenue	EB	show limits	Add No Parking signs with limits	L	3GN_Kb_400.jpg
					pavement edge drop-off in radius and merge of			DAV/ leb 404 imm
2	approx. 1000' west of	n/a	Rio Grande Avenue	EB	Chowder Bay Apartments driveway	request apartment complex to repair driveway	L	PAV kb 404.jpg
		1270' west						PAV kb 405.jpg
3	approx. 1200' west of	of	Rio Grande Avenue	EB	pavement edge drop-off	repair drop-off	Н	<u>PAV_kb_405.jpg</u>
						address at community meeting/possibly organize		CRM kb 406.jpg
4	approx. 1300' west of	n/a	Rio Grande Avenue	EB	litter	clean-up	L	CRIVI KD 400.jpg
					drainage headwall located at 13.5' from edge of	Holden widening project will have closed drainage		BCZ kb 407.jpg
5	approx. 1600' west of	n/a	Rio Grande Avenue	EB&WB	travel lane; evidence of being hit on north side of	system	M	<u> </u>

Holden Avenue

Sidewalk and ADA Issues

							Severity	
No.	From	To	Cross Street	Direction		Solution	(L, M, H)	Photo Name
						Sidewalks will be constructed with Holden Avenue		DED CDC 4424 in a
1	Texas Avenue	n/a	Rio Grande Avenue	EB & WB	no sidewalk leading to very heavily used bus stops	widening project	L	PED_CPC_4434.jpg
					LYNX bus stop ID 2801, not ADA accessible.			ADA CPC 4340.jpg
2	approx. 200' west of	n/a	Rio Grande Avenue	WB	Pavement edge drop-off.	Provide level base for bus stop.	Н	ADA_CPC_4340.jpg
								ADA kb 402.jpg
3	approx. 900' west of	n/a	Rio Grande Avenue	EB	LYNX bus stop ID 2887, loose gravel in B&A area	construct firm surface	L	ADA KD 402.jpg
								ADA kb 403.jpg
4	approx. 900' west of	n/a	Rio Grande Avenue	WB	LYNX bus stop ID 2802, steep grade in B&A area	construct firm, level surface	L	ADA KD 403.jpg

VIII. Recommended Mid-Range and Long-Term Capital Improvements

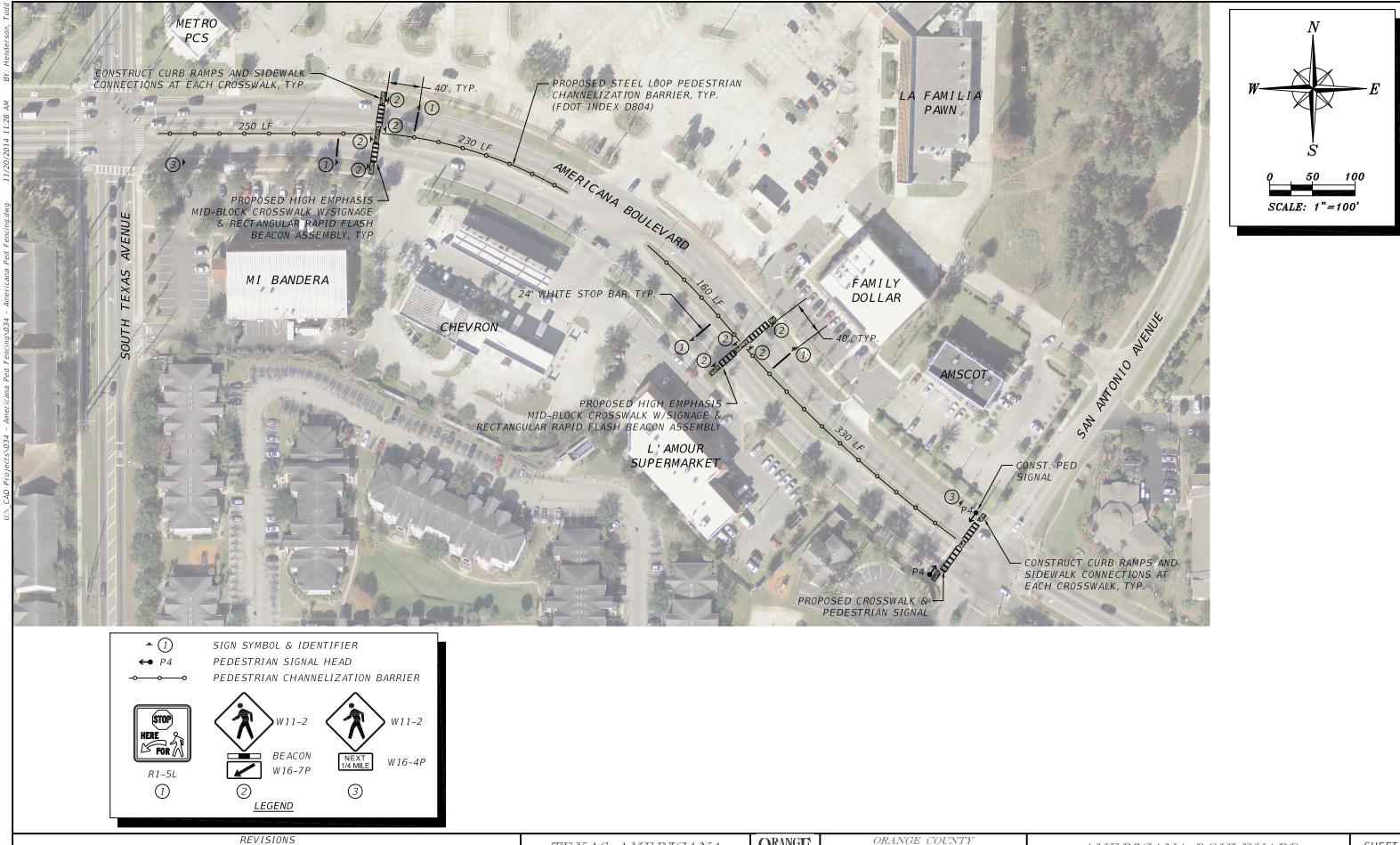
As funds become available for major roadway or intersection improvements, the following projects should be considered:

Mid-Range Improvements

- Americana Boulevard at Texas Avenue reconstruct signal including upgraded ADA-compliant curb ramps and 4-section left turn signal heads
- Oak Ridge Road at Texas Avenue reconstruct signal including sidewalk and upgraded ADA-compliant curb ramps and 4-section left turn signal heads
- Americana Boulevard between Texas Avenue and San Antonio Boulevard install 2 mid-block crosswalks with rectangular rapid flashing beacons and pedestrian warning signing. Consider the use of pedestrian channelization barrier in the median between mid-block crossings. (See concept sheet which follows.)

Long-Term Capital Improvements

- Texas Avenue at Rio Grande Avenue shift eastbound lanes north, reducing median width, and construct sidewalk on the south side of Texas Avenue from the current terminus near Dunwoodie Street to Rio Grande Avenue. Investigate the feasibility of shifting westbound lanes north to reduce the offset at the intersection. (See concept sheet which follows.)
- Rio Grande Avenue install roadway lighting between Oak Ridge Road and south
 of Ole Heritage Drive for security in high-crime area, for Link 8 and 304 LYNX
 transit riders, and for increased visibility of pedestrians and bicyclists.
- Texas Avenue install roadway lighting between Oak Ridge Road and Duskin Avenue and from Honour Road to Rio Grande Avenue for security in high-crime area and for increased visibility of pedestrians and bicyclists.
- Texas-Avenue design and construct missing sidewalk gaps.
- Rio Grande Avenue design and construct missing sidewalk gaps.



TEXAS AMERICANA ROAD SAFETY SMALL AREA STUDY

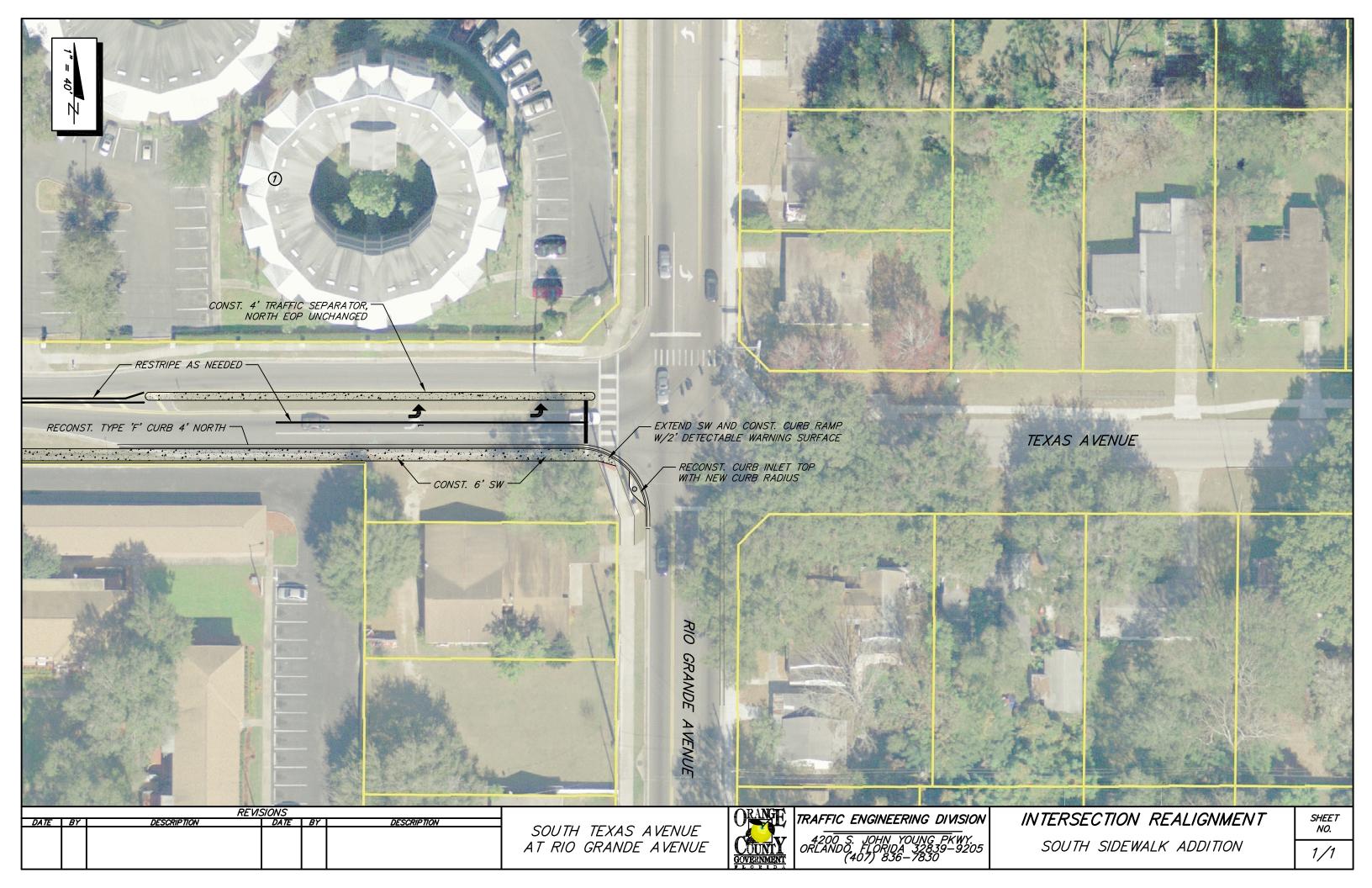


ORANGE COUNTY TRAFFIC ENGINEERING DIVISION

4200 S. JOHN YOUNG PKWY. ORLANDO, FLORIDA 32839-9205 (407) 836-7830 AMERICANA BOULEVARD
PEDESTRIAN SAFETY
IMPROVEMENTS

SHEET NO.

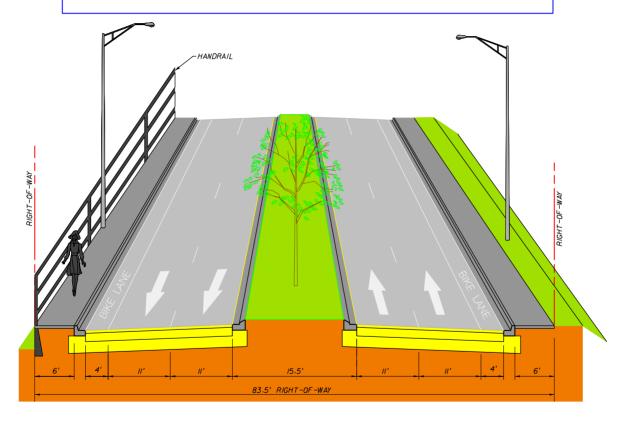
1/1



Appendix A Holden Avenue Typical Section

HOLDEN AVENUE

RAISED MEDIAN DESIGN SPEED 45 MPH



TEXAS AVENUE TO RIO GRANDE AVENUE

Appendix B Existing Transit Ridership

LYNX Existing Transit Ridership

Consideration for Bus Shelter (8.5' X Longer Bus Shelter (12' 4.5' X 8') X 4.5' X 8')

																Minimum Boardings			Night-time	If no shelter, Lighting 15-30'	
No.	Road	Location	Time Point	Direction			Rank for Stop Use	Avg Daily on Bus	Avg Daily off Bus							50 - 100 per day?	100 per day?	Notes	service?	from stop?	
1	Americana Blvd	at Grand Central Pkwy	Americana Blvd and Grand Central Pkwy	EB	40	2309	1977	9	4	12	no	yes	yes	no	no	no	no	steep slope from sidewalk	yes	is coming no, but lighting	sidewalk trash can, relocate bench outside clear
2	Americana Blvd	east of Grand Central Pkwy	2500 Americana Blvd and Grand Central Pkwy	WB	40	2262	1692	4	12	16	no	yes	yes yes, sidewalk	no	no	no	no	check if bench/sign is in best location sidewalk connection to Americana both sides, but no	yes	is coming no, but lighting	zone (10')
3	Americana Blvd	west of Arpana Dr	Americana Blvd and Arpana Dr	EB	40	2310	2862	0	6	6	no	no	to street	no	no	no	no	marked crosswalk	yes	is coming no, but lighting	trash can
4	Americana Blvd	at Arpana Dr	2300 Americana Blvd and Arpana Dr	WB	40	2261	3774	1	1	2	no	yes	yes	no	no	no	no	Sign hidden in trees	yes	is coming shelter is not	trash can, trim trees around sign
	Americana Blad	and of Town Avenue	3100 Americana Blod and Town Ave	EB	8, 40	2211	50	193	127	220	ves	yes, 2 inside	yes, including to street					atandar sastina in shaltar		lighted, median	ahaltaa liahtiaa
3	Americana Blvd	east of Texas Avenue	2100 Americana Blvd and Texas Ave	EB	8, 40	2311	50	193	137	330	yes	yes,	yes, including	yes	yes, large can	yes	yes	circular seating in shelter	yes	lighting 85' shelter is not	shelter lighting
6	Americana Blvd	east of Texas Avenue	2100 Americana Blvd and Texas Ave	WB	8, 40	2260	41	229	133	361	yes	2 inside, 1 outside	to street	yes	yes, large can	yes	yes		yes	lighted, median lighting 85'	shelter lighting
7	Americana Blvd	west of San Antonio Avenue	2000 Americana Blvd and San Antonio Ave	EB	8, 40	2807	153	86	47	133	no	yes	yes	no	no	yes	no	metal protruding near stop; is this missing trash can?	yes	yes	a shelter, trash can, roots removed or bus stop relocated 20' west
													yes, including								potential to move these mid-block
													to street								stops to an intersection? Shelter
8	Americana Blvd	between San Antonio and Rio Grande	1900 Americana Blvd and Rio Grande Ave	EB	8, 304		408	49	19	69	yes	yes		yes	yes, large can		no	nice bus stop	yes	yes median lighting	lighting is either burnt out or very dim.
9	Americana Blvd	between San Antonio and Rio Grande	1900 Americana Blvd	WB	8, 304	2281	143	63	80	143	no	yes	yes	no	yes	yes	no	check if bench is in best location	yes	70'	a shelter with lighting
10	Texas Avenue	north of Huntington Green Ct	5300 Texas Ave and Huntington Green Ct	NB	8	2882	1499	14	4	18	no	yes	yes	no	yes	no	no		yes	west side 105' west side	
11	Texas Avenue	north of Huntington Green Ct	5400 Texas Ave	SB	8	2806	897	9	25	34	no	yes	no	no	yes	no	no		yes	lighting 45'	
12	Texas Avenue	south of Honour Rd	4800 Texas Ave and Honour Rd	NB	8	2883	780	23	16	39	no	yes	yes	no	yes	no	no	B&A area is not level	yes	east side 60'	need level B&A area
13	Texas Avenue	south of Honour Rd	5000 Texas Ave and Honour Rd	SB	8	2805	929	18	14	33	no	yes	no	no	yes	no	no		yes	yes	
14	Texas Avenue	between Buchanan Bay Circle N and S	4700 Texas Ave	NB	8	2884	522	32	25	57	no	no	yes	no	yes	no	no	cross slope from sidewalk to bus stop is too steep,	yes	no	need ADA-compliant slope from
15	Texas Avenue	between Buchanan Bay Circle N and S	4700 Texas Ave	SB	8	2804	542	33	21	54	no	yes	yes yes, including	no	yes	no	no	greater than 5% slope	yes	no	sidewalk to bus stop, need trash can
16	Texas Avenue	south of Holden Ave	4700 Texas Ave and Holden Ave	NB	8	2885	970	14	17	31	no	yes	to street	yes	yes	no	no		yes	no	
17	Texas Avenue	south of Holden Ave	Texas Ave and Holden Ave	SB	8	2803	672	28	16	44	no	yes	yes	no	yes	no	no		yes	no no, but lighting	
18	Holden Ave	approx. 940 ft west of Rio Grande	1600 Holden Ave	EB	8	2886	1531	7	11	18	no	yes	no	no	no	no	no	loose gravel in B&A area; sign is badly faded looks like an alternative surface has been used	yes	is coming no, but lighting	need firm, level B&A area; replace sign
19	Holden Ave	approx. 900 ft west of Rio Grande	1700 Holden Ave	WB	8	2802	2,127	9	2	11	no	yes	no	no	no	no	no	instead of concrete pad; steep grade in B&A area	yes	is coming no, but lighting	need firm, level B&A area
20	Holden Ave	approx. 180 ft west of Rio Grande	1600 Holden Ave and Rio Grande Ave	EB	8	2887	142	54	91	145	no	yes	no	no	no	yes	no	worn walking path to Rio Grande	yes	is coming	
																		worn walking path to Rio Grande; looks like an alternative surface has been used instead of a			
21	Holden Ave	approx. 200 ft west of Rio Grande	1600 Holden Ave and Rio Grande Ave	WB	8	2801	138	114	32	146	no	yes	no	no	no	yes	yes	concrete pad; drop-off to B&A area not ADA- compliant	yes	no, but lighting is coming	need firm, level B&A area
22	San Antonio Ave	approx. 330 ft north of Americana	1900 San Antonio Ave and Americana Blvd	NB	40, 304	2,259	634	23	24	46	no	yes	yes	no	no	no	no	check distances in field; may have stops reversed	yes	west side 80'	
23	San Antonio Ave	approx. 150 ft north of Americana	1900 San Antonio Ave and Americana Blvd	SB	40, 304	2,236	818	18	19	37	no	yes	yes	no	no	no	no	check distances in field; may have stops reversed	yes	yes	
24	San Antonio Ave	north of Lake Fountain Dr	5200 San Antonio Ave and Lake Fountain Dr	NB	40, 304	2,254	2,356	5	4	9	no	yes	yes	no	no	no	no		yes	yes	
25	San Antonio Ave	north of Lake Fountain Dr	5200 San Antonio Ave and Lake Fountain Dr	SB	40, 304	2,258	2611	1	6	7	no	yes	yes	no	no	no	no		yes	yes	
26	San Antonio Ave	approx 320 ft south of Honour Rd	5201 San Antonio Ave and Honour Rd	SB	40, 304	2,693	1124	11	15	26	no	yes	yes	yes	yes, large can	no	no		yes	west side 50'	
27	San Antonio Ave	? There are 2 on LYNX GIS, but only 1 on Googlemaps	5200 San Antonio Ave and Honour Rd	NB	40, 304	2,692	1440	13	7	19	?					no	no		yes		
28	San Antonio Ave	south of Honour Rd	2000 Honour Rd and San Antonio Ave	NB	40, 304	2257	1723	7	9	15	yes	yes, 1 extra	yes	yes	yes, large can	no	no		yes	yes	
29	Honour Rd	west of Rio Grande Ave	1600 Honour Rd and Rio Grande Ave	EB	40, 304	2255	1249	15	8	23	no	yes	1 side	no	no	no	no	Need sidewalk to continue to Rio Grand Ave	yes	yes	
30	S. Rio Grande Ave	north of Honour Rd	4800 Rio Grande Ave and Honour Rd	SB	40, 304	2256	1692	8	8	16	no	yes	yes	no	no	no	no		yes	yes	
31	S. Rio Grande Ave	north of Holden Rd	4600 Rio Grande Ave and Holden Rd	NB	40, 304	2312	651	17	29	45	no	yes	yes	no	no	no	no		yes	yes	
32	S. Rio Grande Ave	north of Holden Rd	4600 Rio Grande Ave and Holden Rd	SB	40, 304	2252	604	32	17	48	no	yes	yes	no	no	no	no		yes	east side 60'	
33	S. Rio Grande Ave	south of 44th St	4400 Rio Grande Ave and 44th St	NB	40, 304	2313	1480	8	10	18	no	no	yes	no	no	no	no	no 5'X8' B&A area - right-of-way restricted	yes	east side 60'	
34	S. Rio Grande Ave	south of 44th St	4400 Rio Grande Ave and 44th St	SB	40, 304	2251	1187	15	10	25	no	yes	yes	no	no	no	no		yes	east side 60'	
35	S. Rio Grande Ave	south of 42nd St	4200 Rio Grande Ave and 42nd St	SB	40, 304	2250	893	15	20	34	no	yes	yes	no	no	no	no		yes	yes	
36	S. Rio Grande Ave	north of 42nd St	4100 Rio Grande Ave and 42nd St	NB	40, 304	2314	985	25	6	31	no	no	yes	no	no	no	no	no 5'X8' B&A area - right-of-way restricted	yes	east side 60'	
37	S. Rio Grande Ave	south of 40th St	3900 Rio Grande Ave and 40th St	NB	40, 304	2315	1692	9	7	16	no	yes	yes	no	no	no	no		yes	yes	
38	S. Rio Grande Ave	north of 40th St	3900 Rio Grande Ave and 40th St	SB	40, 304	2249	1488	8	10	18	no	yes	yes	no	no	no	no		yes	west side 70'	
39	S. Rio Grande Ave	south of 37th St	3700 Rio Grande Ave and 37th St	NB	40, 304	2316	2024	6	6	12	no	no	yes	no	no	no	no	no 5'X8' B&A area - right-of-way restricted	yes	west side 60'	
40	S. Rio Grande Ave	north of 37th St	3600 Rio Grande Ave and 37th St	SB	40, 304	2248	2366	2	7	9	no	yes	yes	no	no	no	no	-	yes	yes	
41	S. Rio Grande Ave	north of 34th St	3500 Rio Grande Ave and 34th St	NB	40, 304	2317	2686	5	2	7	no	yes	yes	no	no	no	no		yes	east side 50'	
42	S. Rio Grande Ave	south of 34th St	3500 Rio Grande Ave and 34th St	SB	40, 304	2247	2781	5	2	6	no	yes	yes	no	no	no	no		yes	yes	
43	S. Rio Grande Ave	north of Oak Ridge Rd	5800 Rio Grande Ave and Oak Ridge Rd	NB	8, 304	2834	133	80	80	151	no	yes	no	no	no	yes	no		yes	no	a shelter with lighting
44	S. Rio Grande Ave	north of Oak Ridge Rd	6000 Rio Grande Ave and Oak Ridge Rd	SB	8, 304	2815	274	8	84	92	no	no	yes	no	yes	no	no		yes	no	
44	J. NIO GLATIGE AVE	norm of Oak Ridge Rd	0000 NO Graffue Ave and Oak Kluge Ku	J 35	υ, 304	4010	2/4	0	04	94	110	IIU	yes	IIU	yes	I IIU	IIU		yes	IIU	

LYNX Existing Transit Ridership

Consideration for Bus Shelter (8.5' X Longer Bus Shelter (12' 4.5' X 8') X 4.5' X 8')

																	,				
																				If no shelter,	
																Minimum Boardings	Minimum Boardings		Night-time	Lighting 15-30'	
No.	Road	Location	Time Point	Direction	Route	Stop ID	Rank for Stop Use	Avg Daily on Bus	Avg Daily off Bus	Avg Daily Use	Shelter?/Type	Bench?	S/W Access?	Concrete Pad?	Trash Can?	50 - 100 per day?	100 per day?	Notes	service?	from stop?	Need
		at Weatherly at Central Park																			
45	S. Rio Grande Ave	Apartments	5700 Rio Grande Ave	NB	8, 304	2835	3360	3	0	3	no	yes	no	no	no	no	no		yes	no	
46	6 B'- C	at Weatherly at Central Park	5700 B'- C		0 204	2044	2440														
46	S. Rio Grande Ave	Apartments	5700 Rio Grande Ave	SB	8, 304	2814	3410	0	3	3	no	no	yes	no	yes	no	no		yes	no	
47	S. Rio Grande Ave	south of Wakulla Way	5600 Rio Grande Ave and Wakulla Way	NB	8, 304	2836	1919	8	4	13	no	yes	no	no	no	no	no		yes	no	
48	S. Rio Grande Ave	north of Wakulla Way	5700 Rio Grande Ave and Wakulla Way	SB	8, 304	2813	1267	8	14	23	no	yes	yes	no	no	no	no		yes	no	
49	S. Rio Grande Ave	south of Rose Blvd	5600 Rio Grande Ave and Rose Ave	SB	8, 304	2812	2151	4	6	10	no	yes	yes	no	no	no	no		yes	west side 80'	
50	S. Rio Grande Ave	south of Rose Blvd	5600 Rio Grande Ave and Rose Ave	NB	8, 304	2877	2212	6	4	10	no	no	no	no	no	no	no		yes	west side 40'	
51	S. Rio Grande Ave	north of Blossom Terrace	5500 Rio Grande Ave and Blossom Terr	NB	8, 304	2878	1448	8	10	19	no	no	no	no	no	no	no	lighting is on east side private property for mobile home park	yes	yes	
52	S. Rio Grande Ave	north of Blossom Terrace	5500 Rio Grande Ave and Blossom Terr	SB	8, 304	2811	1006	15	15	30	no	yes	yes	no	no	no	no	lighting is on east side private property for mobile home park	yes	east side 60'	
53	S. Rio Grande Ave	north of Lake Heritage Circle	5400 Rio Grande Ave and Lake Heritage Cir	SB	8, 304	2810	1135	13	13	26	no	no	yes	no	no	no	no		yes	east side 90'	
													yes, including								
54	S. Rio Grande Ave	south of Lake Heritage Circle	5411 Rio Grande Ave and Amer	NB	8, 304	2879	1165	13	12	25	yes	yes	to pad	yes	yes, large can	no	no	shelter roof needs repair	yes	yes	need shelter roof repair
l		south of Royal Grande of Orlando											yes, including					connection from sidewalk to curb is blocked by			
55	S. Rio Grande Ave	Apartments	5301 Rio Grande Ave and Amer	NB	8, 304	2880	518	19	39	57	yes	extra	to pad	yes	yes, large can	no	no	bench;	yes	yes	shelter lighting
56	S. Rio Grande Ave	front of Esplanade Apartments	5400 Rio Grande Ave	SB	8, 304	2809	347	63	15	78	no	yes	yes, including to street	yes	no	yes	no		yes	east side 70'	

Appendix C ADA Criteria

ADA Compliance Texas-Americana Road Safety Small Area Study

Component		Location	Criteria	Additional Description	Reference
		sidewalks, paths, ped. street crossings, at-			
		grade rail crossings	continuous clear width of 4.0 ft minimum	does not include the width of curb	See Figure R302.3, PROWAG Chapter R3
	Continuous Width	medians and pedestrian refuge islands	5.0 ft minimum	n/a	R302.3.1
			if PAR < 5 ft, provide passing spaces at 200 ft		
		passing spaces	intervals, maximum.	Passing spaces are 5.0 ft X 5.0 ft minimum	See Figure R302.4, PROWAG Chapter R3
		sidewalks, paths, ped. street crossings, at-	shall not exceed the general grade for the	Running slope is measured parallel to the	
Pedestrian Access Route (PAR)	Running slopes	grade rail crossings	adjacent street	direction of pedestrian travel.	R302.5
		pedestrian street crossings	5% maximum	n/a	R302.5.1
		sidewalks, paths, ped. street crossings, at-		Cross slope is measured perpendicular to the	
		grade rail crossings	2% maximum	direction of pedestrian travel.	R302.6
	Cross slopes	pedestrian street crossings without yield or			
		stop control	5% maximum	n/a	R302.6.1
		mid-block pedestrian street crossings	can be equal to the street grade	n/a	R302.6.2
		sidewalks, paths, ped. street crossings, at-			
	vertical alignment	grade rail crossings, curb ramps, blended			
		transitions, accessible pedestrian signals,			
		pedestrian pushbuttons, benches, boarding	firm, stable and slip resistant. generally		
		and alighting areas at transit stops, ramp runs	planar and smooth; grade breaks shall be		
		and landings	flush	n/a	R302.7.1
	vertical surface discontinuities	sidewalks, paths, ped. street crossings, at-			
		grade rail crossings, curb ramps, blended			
Surfaces		transitions, accessible pedestrian signals,			
Juliaces		pedestrian pushbuttons, benches, boarding	0.5 inch maximum; discontinuities between		
		and alighting areas at transit stops, ramp runs	0.25 inch and 0.5 inch shall be beveled with a		
		and landings	slope not steeper than 50%	n/a	See Figure R302.7.2, PROWAG Chapter R3
		sidewalks, paths, ped. street crossings, at-			
		grade rail crossings, curb ramps, blended			
	Horizontal	transitions, accessible pedestrian signals,		Elongated openings in gratings shall be	
	openings	pedestrian pushbuttons, benches, boarding		placed so that the long dimension is	
		and alighting areas at transit stops, ramp runs		perpendicular to the dominant direction of	
		and landings	than 0.5 inch in diamter.	travel.	See Figure R302.7.3, PROWAG Chapter R3
			4.0 ft X 4.0 ft minimum; 4.0 ft X 5.0 ft when		
			constrained at the back of sidewalk. Longer		
Curb Ramp Landings	Turning Space	sidewalks - top of curb ramps	dimension in direction of ramp run.	may overlap other clear spaces	See Figure R304.2.1, PROWAG Chapter R3
Curb Karrip Landings	Turring Space		4.0 ft X 4.0 ft minimum ; 4.0 ft X 5.0 ft when		
			constrained on 2 or more sides. Longer		
			dimension in direction of the pedestrian		
		sidewalks - bottom of curb ramps	street crossing.	may overlap other clear spaces	See Figure R304.3.1, PROWAG Chapter R3
	1			. /	3. 1, 2 2

Component		Location	Criteria	Additional Description	Reference
				Shall not require the ramp length to exceed	
	Running slopes	n/a	5% minimum, 8.3% maximum	15.0 ft.	R304.2.2
	Flared sides	n/a	10% maximum slope	Measured parallel to the curb line	See Figure R304.2.3, PROWAG Chapter R3
Curb Ramps	Cross slopes	n/a	2% maximum	n/a	R304.5.3
				If difference between ramp grade and grade	
				of adjacent street is greater than 11.3%,	R304.5.4,
	Counter slope	n/a	5% maximum	provide 2 ft level area	Dean Perkins (FDOT) presentation, p 16
Blended transitions	Running slopes	n/a	5% maximum	n/a	See Figure R304.4.1, PROWAG Chapter R3
bichaea transitions	Cross slopes	n/a	2% maximum	n/a	R304.5.3
			Shall extend 2.0 feet minimum in the		
		all	direction of pedestrian travel (depth).	n/a	See Figure R305.1.4, PROWAG Chapter R3
			shall extend the full with of the ramp run		
			(excluding flared sides), blended transition or		
		curb ramps, blended transitions	turning space	n/a	R305.1.4
			shall extend the full length of the public use		
		boarding platforms for buses	area of the platform	n/a	R305.2.6
					R305.2.1,
	Size	perpendicular curb ramps	place at back of curb or at grade break	n/a	Dean Perkins (FDOT) presentation p. 17
Detectable Warning Surfaces			Place at grade break if level landing at		
			bottom or ramp is 5 ft deep or less. Place on		
			bottom landing if level landing is more than 5		See Figure 305.2.1, PROWAG Chapter R3
		directional/linear ramps	ft deep at any point.	n/a	Dean Perkins (FDOT) presentation p. 17
		parallel ramps	on the turning space located at back of curb	n/a	See Figure R305.2.2, PROWAG Chapter R3
			at the edges of the pedestrian island and		
			separate by a 2.0 ft minimum length of		
		pedestrian refuge islands	surface without detectable warnings	n/a	See Figure R305.2.4, PROWAG Chapter R3
		p out the strong to the strong		.,,,	
	Dimensions	n/a	5.0 ft wide X 8.0 ft deep	level and stable surface	See Figure R308.1.1.1, PROWAG Chapter R3
Transit Boarding and Alighting Areas			Parallel to the street, the same as the street;		
	Grade	n/a	Perpendicular to the street, 2% maximum	n/a	R308.1.2.2
		,	the connection between boarding and	Must meet criteria for a pedestrian	
	Connection	n/a	alighting area and the bus shelter	accessible route (PAR)	Figure R308.1.3.2, PROWAG Chapter R3
				· ´	
		Objects with leading edges between 27 inches	Cannot protrude more than 4 inches		
		and 80 inches above finished surface	horizontally into pedestrian circulation path	n/a	See Figure R402.2, PROWAG Chapter R4
Protruding Objects	Limits	and so mones above minimed surface	pulling	, -	garanta and an and an
		Post-Mounted Objects between 27 inches and	Cannot protrude more than 12 inches		
		80 inches above finished surface	horizontally into pedestrian circulation path	n/a	Dean Perkins (FDOT) presentation, p. 10
		oo iliciles above lillistied sufface	monzontany into pedestrian circulation path	II/a	Dean Ferkins (FDOT) presentation, p. 10

Component		Location	Criteria	Additional Description	Reference
		channelized turn lanes at signalized intersections	Pedestrian activated signals shall be provided at pedestrian street crossings at multi-lane channelized turn lanes	n/a	R306.5
		n/a	Where pedestrian signals are provided, they shall include accessible pedestrian signals complying with sections 4E.08 through 4E.13 of the MUTCD.	n/a	R209.1
		.,,,	High forward reach shall be 4.0 ft maximum (FDOT standard is 3.5 ft); low forward reach	Forward reach over an obstruction is not	
		Unobstructed Forward Reach	surface.	ı.·	See Figure R406.2, PROWAG Chapter R4
				An obstruction shall be permitted between	
T (5: 6: 16)	pedestrian		High side reach shall be 4.0 ft maximum	the clear space and the element where the	
Traffic Signal Systems	activated signals	Un all atoms at a d Cirl a Danach	, , , , , , , , , , , , , , , , , , , ,	depth of the obstruction is 10 inches	Car Figure DAGC 2. DDGWAG Charter DA
		Unobstructed Side Reach	be 1.25 ft minimum above finish surface. Between 1.5 ft and 6 ft from the edge of the	maximum.	See Figure R406.3, PROWAG Chapter R4
			curb, shoulder, or pavement. If impractical,	n/a	See MUTCD Figure 4E-3
		Location	Not greater than 5 ft from edge of the crosswalk line farthest from the center of the	-1-	Con MALITCO Signary AF 2
			Two pedestrian pushbuttons provided in the	n/a	See MUTCD Figure 4E-3
			same corner should be separated by a distance of at least 10 ft.	n/a	see MUTCD 4E-09
			Should be parallel to the crosswalk to be	1170	300 MO 100 4E 03
		Pushbutton face		n/a	see MUTCD 4E-09
		Pushbutton signs	Shall clearly indicate which crosswalk signal is actuated by each pedestrian pushbutton.	n/a	see MUTCD 4E-09

Appendix D
Community Meeting Sign-In Sheets

Texas-Americana Road Safety Small Area Study December 4, 2014

NAME	ADDRESS	TELEPHONE	EMAIL	
Eddie & ARNBRA Whitled	5432 ARPANA DA	407/8560558	AEretirees@msn.	Com
Manuela Davies	5452 Gral Way	B21/202-0214	manuela @ manuela . Co	
Elbert Water	4200 Typa	836-407 836-782	4	
Thurman Hill	5437AYPONG DR	407-2401383		ž.
Autonio dez	SEZGAUSOUN CT	407.902-5391	,	9
Laurie combs	2215 Pineway D	(1 combs 900 CS1.	Re.com
Time Wells	O.C. Commission Op	407-836-5660		
Irene A - Toylor	3513 Pendleten Dr	407 716 5195	Telouson @ gmail. com	27
CEDA DORME	ieg 25 13 Rose BL			
JoAnn C. Tobiasen		407 3127983		
Fult Cilu	2208 Dus	407-8442330		
1		1		

Texas-Americana Road Safety Small Area Study December 4, 2014

NAME	ADDRESS	TELEPHONE	EMAIL	
Ima Cloud	the 5319 W	WSOWTH Cort	6 a P	
DebySmith	2919 Marchfieldt	£ 04 / 32839	dsmithamid florid	aendierem
FERN Hanipton	5512 S. Tampadie	GH 32829	fermi deniptor gmail	Com
Shawn Hamps	BS 1) tample 1/4	407 325 7506		
Cammissioner Victoria Siplin	M.C. Commissioner	407-836-5860	,	
GAM SIPLIN	1320 Pinz	40 8022411	A	
CaraD. Malayla	1 OCNPRD	407-836-0916	Carla MECKENDONIES	S/alel
Marty Hunter	4302 Agualista A	707-903-0865		
OSWANDO BEN-K	2818 PUE BLVD	467-857-8675	T est	
Wes Thoson	450 & South Street	407-836-5895	Wes. Johnson auc H. n	er
				, ·
				×
		-	9	

Texas-Americana Road Safety Small Area Study December 4, 2014

NAME	ADDRESS	TELEPHONE	EMAIL
Jui Peire	453N Garlandhe	4073546046	jreinacogolynxicom
	01/2440, FC30771		
CLARA VILLORIA Katy Magneder	55/3 Pemploon 124, 221	F. 407-797-6684	LOUTHYSTEGMINE CO BENKE DE BELLSOCOTA Kmagrudur@daycon
CLARA VIIIORIA	2818 Rose Blub 1	R-FC 407-857 8675	Benk : Do bel Csoce to
Katy Magneder	(1	Kmagruduredaycon
))			

X