

## Daytona Beach Greyhound Bus Terminal Connector

### Introduction

Daytona Beach is a seasonal town with large groups of out-of-towners descending upon the city for various events, most notably for Speed weeks in early February when over 200,000 NASCAR fans come to attend the season-opening Daytona 500. Other events include the NASCAR Coke Zero 400 race in July, Bike Week and spring break in early March, Biketoberfest in mid October, and the Rolex 24 Hours of Daytona endurance race in January. Daytona Beach Greyhound provides one way and round trip bus transportation services to Jacksonville, Orlando, Miami, and other major cities around the state. The bus terminal includes a Ticket Office, a Western Union window, Security Lockers, and a Southern Komfort Taxi station and the terminal operates from 7:00 am to 10:30 pm. Daytona Beach Greyhound Bus Terminal Connector as shown in Figure 2E-1 provides direct access for buses between the subject hub and I-95, a Florida Interstate Highway System facility.

The bus terminal meets distance criterion as the terminal is located greater than 50 miles from the nearest SIS hub of the same type, and meets Emerging SIS minimum size criteria as the terminal handles 50,000 interstate or interregional passengers per year.

### Existing Conditions

The connector is a 5.1-mile segment and traverses US 92 and US 1. Land use along the connector is primarily retail and residential as shown in Figure 2E-2. VOTRAN Routes 9, 10, 11 and 60 are operational on the connector. Sidewalks are present along US 92 providing walk access from primarily retail facilities to fixed route VOTRAN service. Daily Level of Service (LOS) analysis for the segments of the connector was conducted using FDOT Generalized Quality Level of Service tables and is summarized in Table 2E-1. It indicates that segment of US 92 between Williamson Boulevard and Bill France Boulevard is currently operating deficiently. The results of PM peak-hour intersection LOS analysis conducted using SYNCHRO is shown in Table 2E-2. It indicates that the US 92 intersections, at Williamson Boulevard, Nova Road and at US 1 are operating deficiently. Existing intersection geometry including turn-radius, lane width, etc. is shown in Figures 2E-3a through 2E-3e.

Table 2E-1: Existing Daily Arterial LOS

Road Name	From	To	Section Length (mi)	Area Type	Facility Type	Lanes	Year 2007 AADT	T <sub>24</sub> (%)	Peak Hour Directional Volumes	FDOT LOS Std.	Year 2007 LOS
US 92	I-95 Ramps	Williamson	0.71	urban	arterial	6	48,500	5.28	2,465	D	D
US 92	Williamson	Bill France	1.13	urban	arterial	6	49,500	5.12	2,622	D	E
US 92	Bill France	Clyde Morris	0.86	urban	arterial	6	42,500	5.28	2,198	D	D
US 92	Clyde Morris	Nova Road	0.93	urban	arterial	6	45,000	4.18	2,328	D	D
US 92	Nova Road	MLK Blvd.	0.78	urban	arterial	4	29,000	5.28	1,674	D	D
US 92	MLK Blvd.	US 1	0.38	urban	arterial	4	28,000	5.28	1,661	D	D
US 1	Orange Ave.	US 92	0.30	urban	arterial	4	32,000	5.45	1,552	D	D

Table 2E-2: Existing PM Peak-Hour Intersection LOS

Intersection	Adopted LOS	2007 Intersection LOS
I-95 NB off-ramp @ US 92	D	D
US 92 @ Indigo Dr.	D	C
US 92 @ Thames Rd.	D	A
US 92 @ Williamson Blvd.	D	E
US 92 @ Kennel Club	D	A
US 92 @ Fentress Blvd.	D	C
US 92 @ Best Buy	D	A
US 92 @ Industrial Pkwy.	D	A
US 92 @ Bill France Blvd.	D	C
US 92 @ Midway Ave.	D	C
US 92 @ Hagen Terrace	D	C
US 92 @ Clyde Morris Blvd.	D	D
US 92 @ White St.	D	C
US 92 @ Senaca Blvd.	D	B
US 92 @ Nova Rd.	D	E
US 92 @ Adams St.	D	B
US 92 @ Lincoln St.	D	B
US 92 @ Martin Luther King Blvd.	D	B
US 92 @ US 1	D	E

### Planned/Programmed Improvements

FDOT adopted FY2008-2013 Work Program includes resurfacing of US 92 from 0.2 miles west of CR 415 to Clyde Morris Boulevard (SR 483) (Item # 4195951) and widening of Clyde Morris Boulevard from 4 lanes to 6 between Beville Road (SR 400) and US 92 (SR 600, International Speedway Blvd), including sidewalks (Item # 4081781).

### Future Conditions and Recommendations

Figure 2E-4 shows the proposed and approved development projects in the immediate vicinity of the connector. Table 2E-3 provides summary of PM peak-hour intersection LOS analysis for the years 2020 and 2030 for both no-build and build conditions. The recommendations for build conditions are listed in Table 2E-4 for phased implementation.



Table 2E-3: Future PM Peak-Hour Intersection LOS

Intersection	Adopted LOS	2020 No-Build LOS	2020 Build LOS	2030 No-Build LOS	2030 Build LOS
I-95 NB off-ramp @ US 92	D	D	D	D	D
US 92 @ Indigo Dr.	D	C	C	D	D
US 92 @ Thames Rd.	D	A	A	B	B
US 92 @ Williamson Blvd.	D	F	D	F	D
US 92 @ Kennel Club	D	B	B	B	B
US 92 @ Fentress Blvd.	D	C	C	C	C
US 92 @ Best Buy	D	A	A	A	A
US 92 @ Industrial Pkwy.	D	A	A	B	B
US 92 @ Bill France Blvd.	D	D	D	D	D
US 92 @ Midway Ave.	D	D	D	D	D
US 92 @ Hagen Terrace	D	C	C	C	C
US 92 @ Clyde Morris Blvd.	D	E	D	E	D
US 92 @ White St.	D	D	D	D	D
US 92 @ Senaca Blvd.	D	B	B	B	B
US 92 @ Nova Rd.	D	E	D	F	D
US 92 @ Adams St.	D	B	B	B	B
US 92 @ Lincoln St.	D	B	B	B	B
US 92 @ Martin Luther King Blvd.	D	B	B	B	B
US 92 @ US 1	D	F	D	F	D



Table 2E-4: Daytona Beach Greyhound Bus Terminal Connector Recommended Improvements

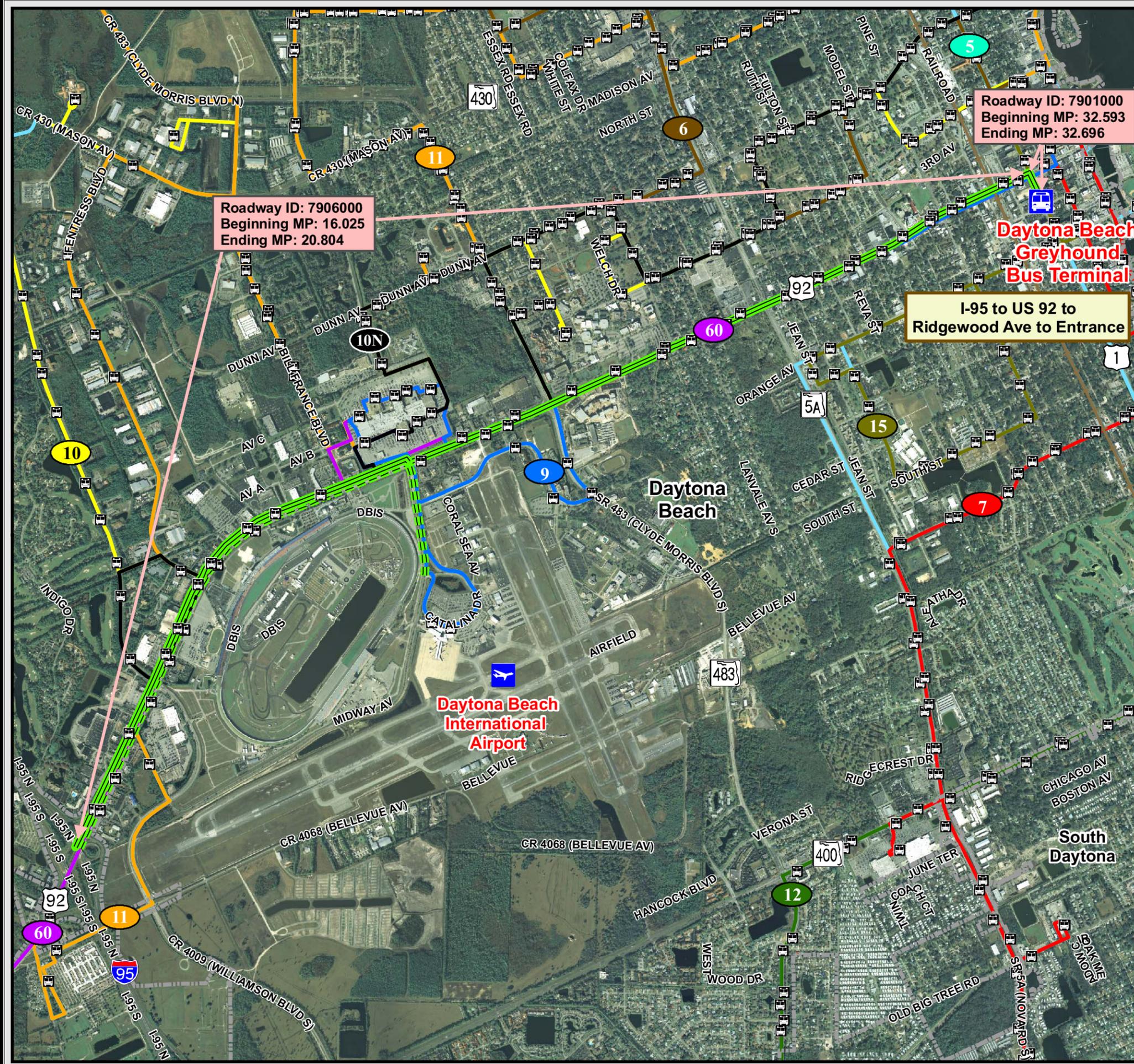
Improvement Category	Phase I (Immediate Improvements)	2008 PDC Costs**	Phase II (2009 - 2020) Improvements	2008 PDC Costs**	Phase III (2021 - 2030) Improvements	2008 PDC Costs**
<b>Geometric*</b>	-	-	-	-	-	-
<b>Operational</b>	Add second SB right turn at Williamson Blvd. ***	\$1,166,400	Add a second EB left turn lane at US 92 and Nova Rd.	\$1,267,200	Add a second NB left turn lane at US 92 and Williamson Blvd. ***	\$619,200
	Modify SB through and shared right turn to exclusive through and right turn lanes at US 92 and Nova Rd.(add a right turn lane)	\$460,800	Modify SB through and shared right turn to exclusive through and right turn lanes at US 92 and US 1(add a right turn lane)	\$388,800	Add a second SB left turn lane at US 92 and Williamson Blvd. ***	\$403,200
			Modify NB through and shared right turn to exclusive through and right turn lane at US 92 and US 1(add a right turn lane)	\$446,400	Modify NB through and shared right turn to exclusive through and right turn lanes at US 92 and Nova Rd.(add a right turn lane)	\$475,200
<b>Other</b>	Directional signage improvements along the connector.	\$50,000	-	-	-	-
<b>Total</b>	-	<b>\$1,627,200</b>	-	<b>\$2,102,400</b>	-	<b>\$1,497,600</b>

\* Assume WB-62FL design vehicle.

\*\* Costs of right-of-way, right-of-way support, landscaping, lighting, utility relocations and wetland mitigation are not included.

\*\*\* These recommended improvements are common for Greyhound Bus Terminal Connector and Greyhound Daytona Beach Connector





Florida Department of Transportation

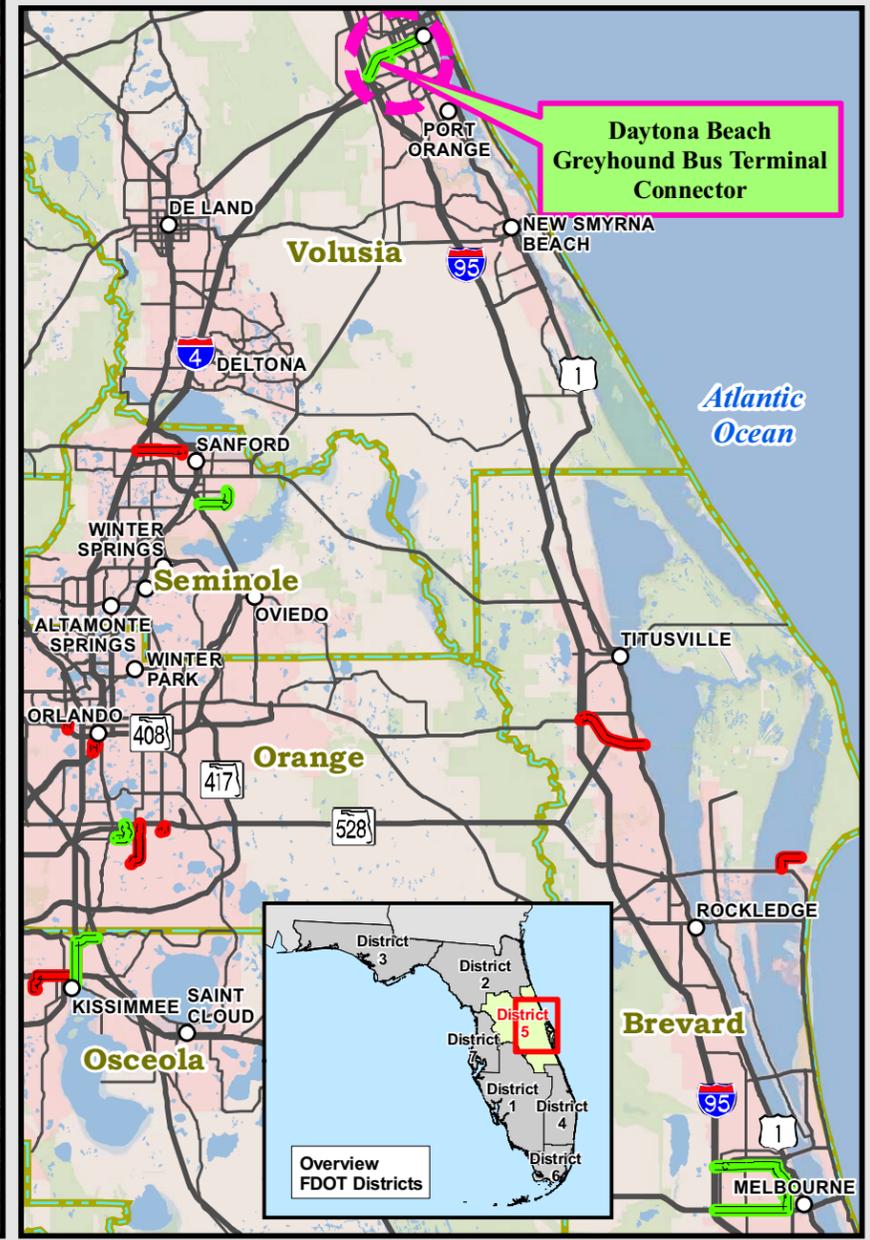
**Strategic Intermodal System (SIS)  
Highway Connectors Assessment**

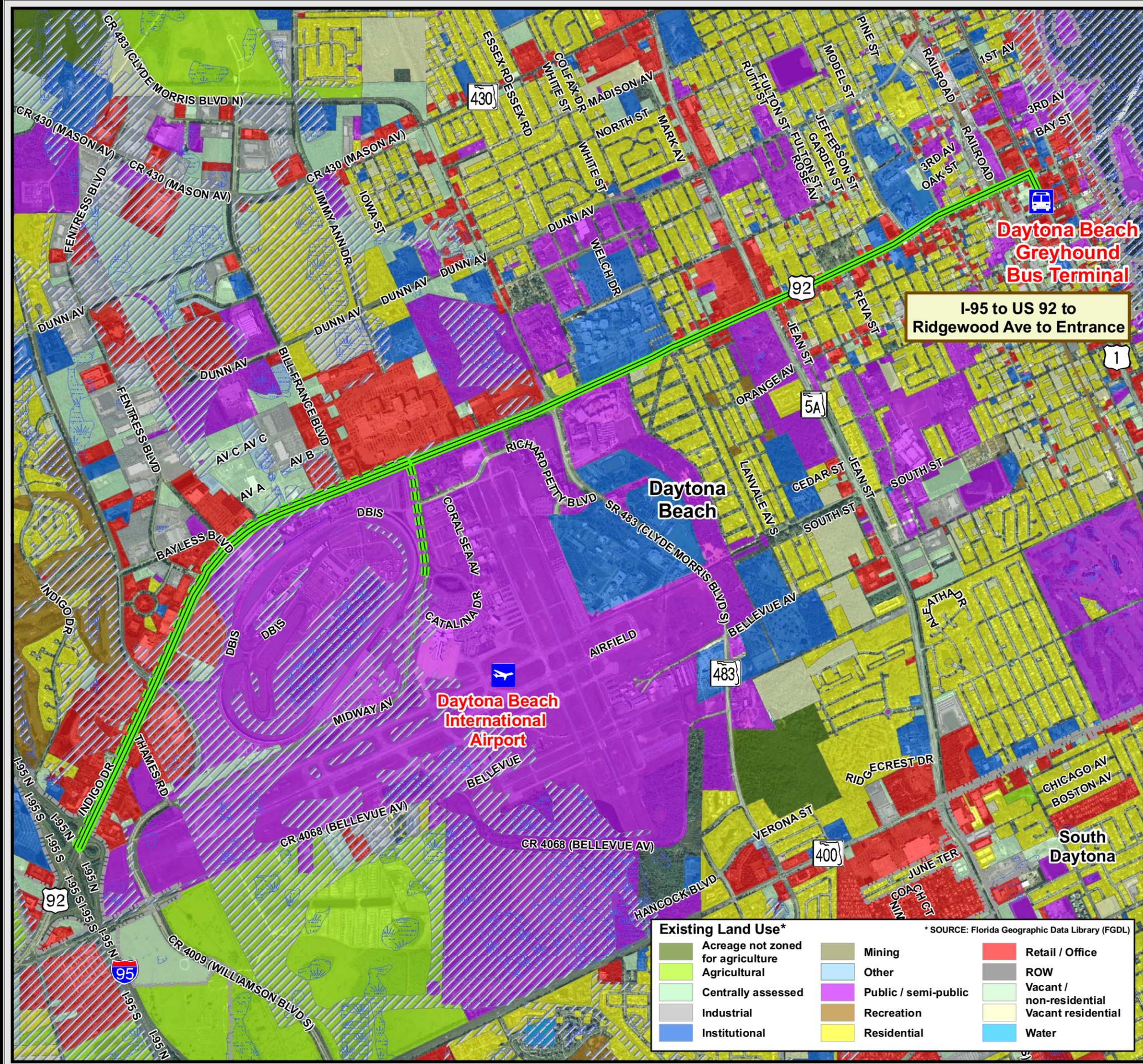
**Daytona Beach Greyhound Bus Terminal  
Connector - Overview** Figure  
2E-1

SIS Highway Connector	City Limits
Emerging SIS Highway Connector	Bus Route & Route #
Daytona Beach Intl. Airport Connector	Bus Stop*

\* SOURCE: VOTRAN 2009

0 0.4 0.8 1.2  
Miles





**Existing Land Use\***

Acreage not zoned for agriculture	Mining	Retail / Office
Agricultural	Other	ROW
Centrally assessed	Public / semi-public	Vacant / non-residential
Industrial	Recreation	Vacant residential
Institutional	Residential	Water

\* SOURCE: Florida Geographic Data Library (FGDL)

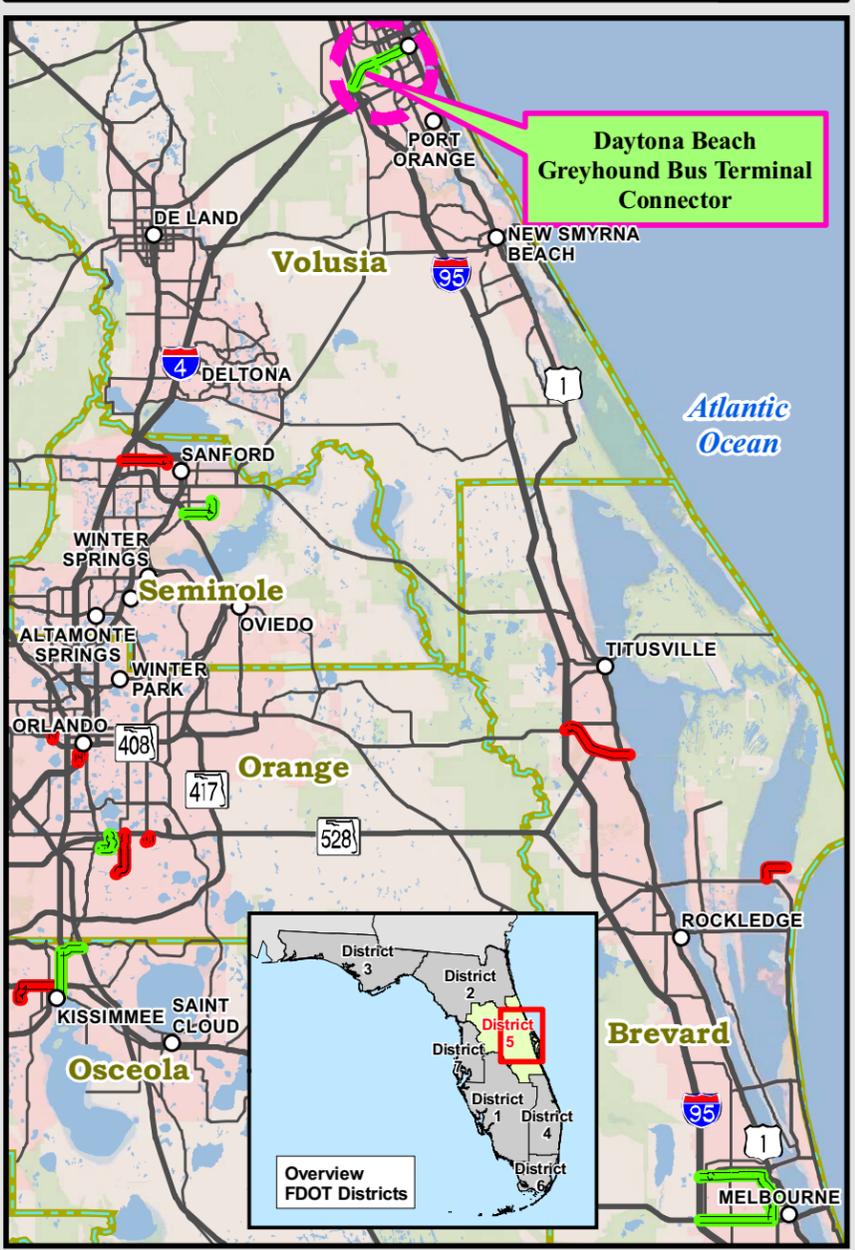


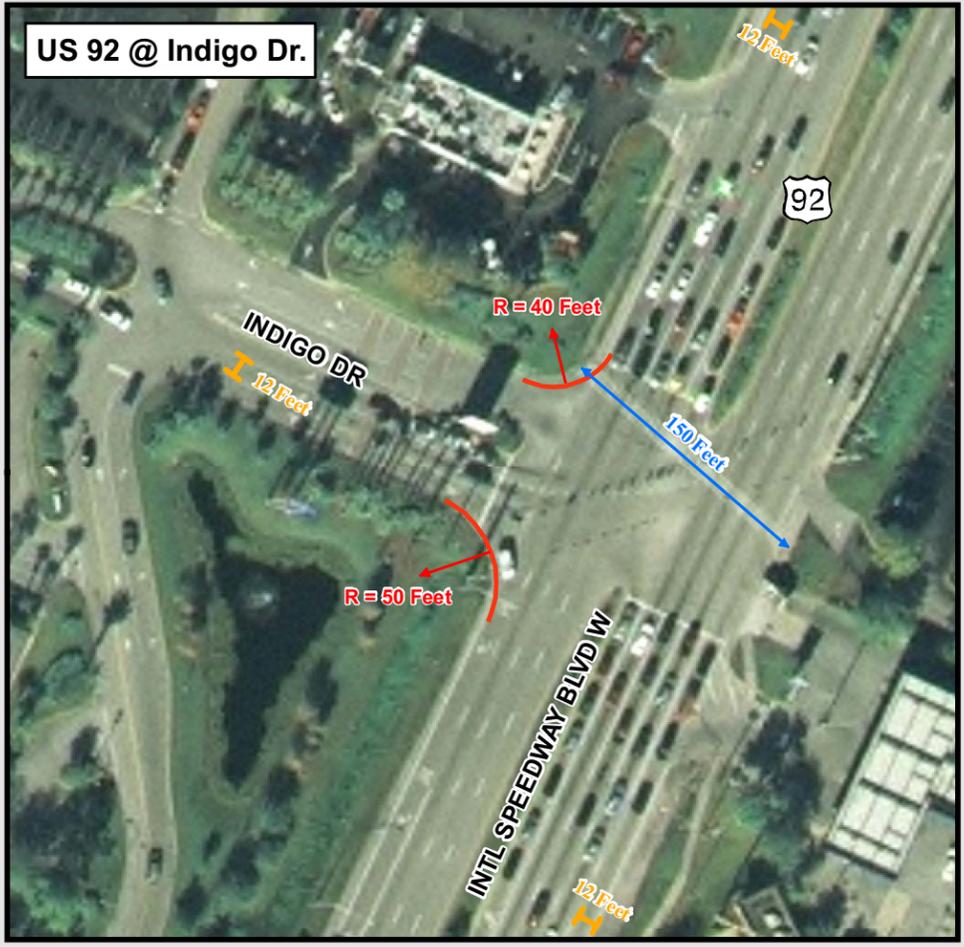
**Strategic Intermodal System (SIS)  
Highway Connectors Assessment**

**Daytona Beach Greyhound Bus Terminal Connector - Existing (Year 2007) Land Use** Figure 2E-2

SIS Highway Connector	City Limits
Emerging SIS Highway Connector	FEMA Floodplain*
Daytona Beach Intl. Airport Connector	Wetland*

0 0.4 0.8 1.2  
Miles





Florida Department of Transportation

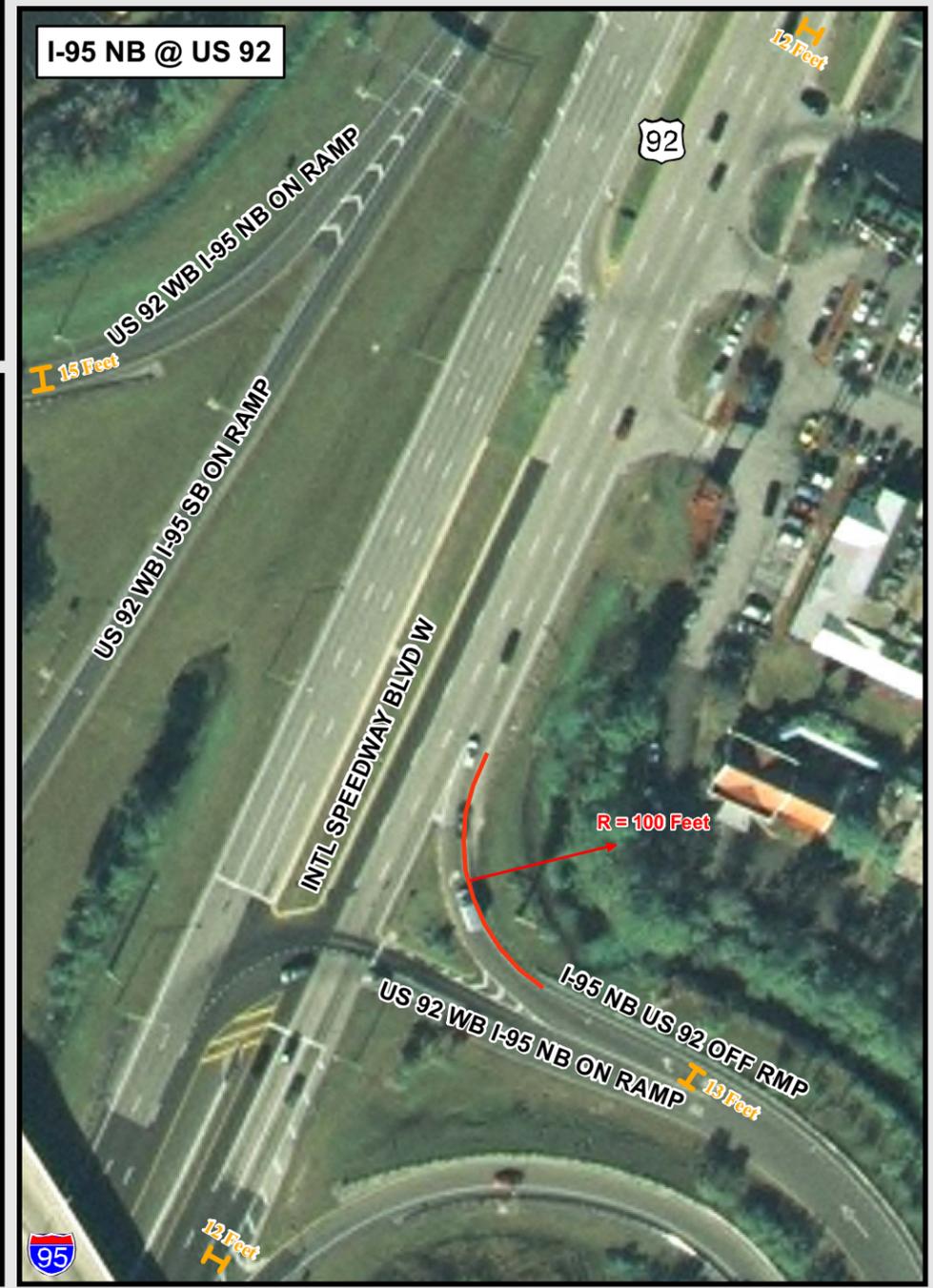
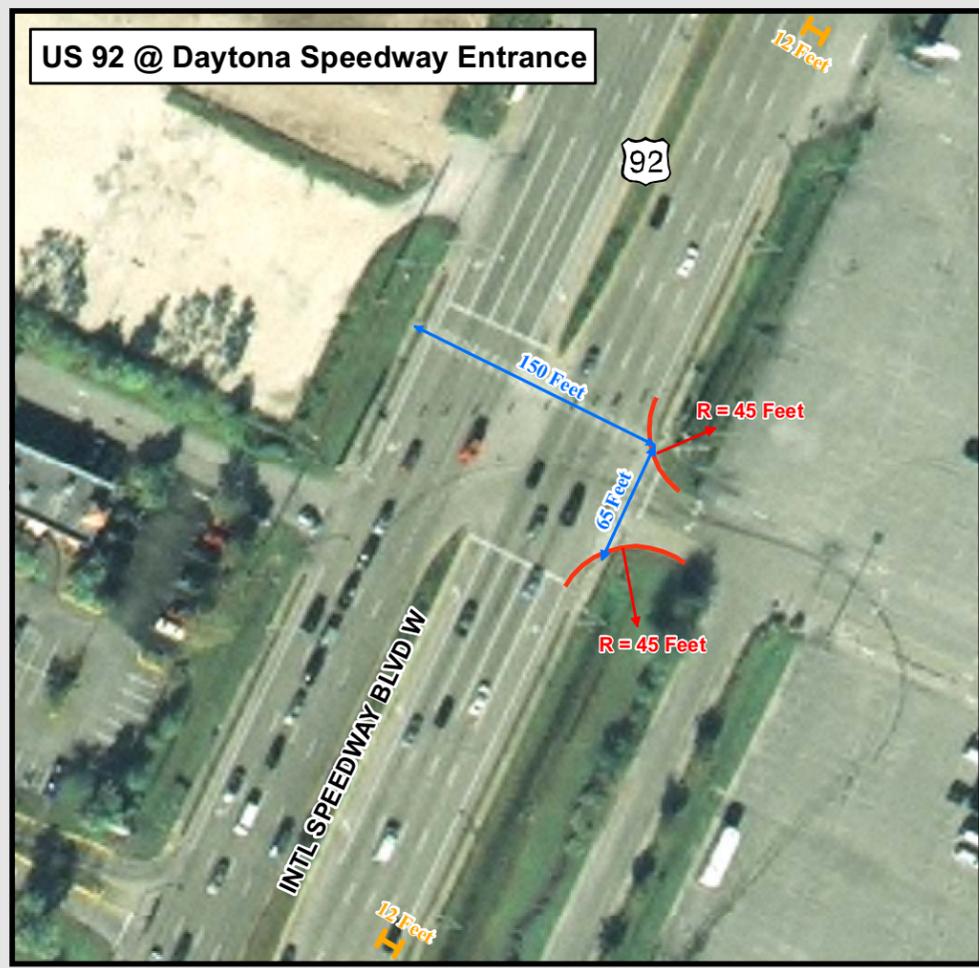
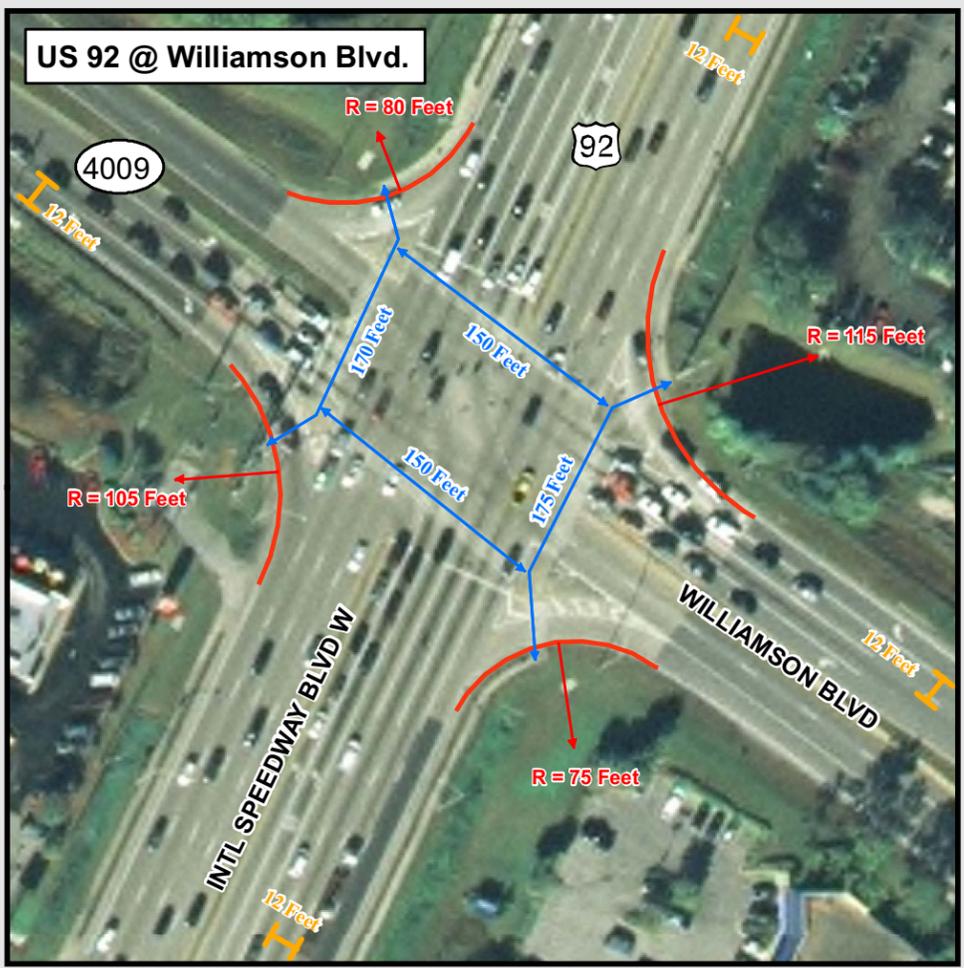
**Strategic Intermodal System (SIS)  
Highway Connectors Assessment**

Daytona Beach Greyhound Bus Terminal Connector  
Intersection Geometry

Scale: 1 Inch = 100 Feet

0 100 200 300  
Feet

Figure 2E-3a



US 92 @ Fentress Blvd.



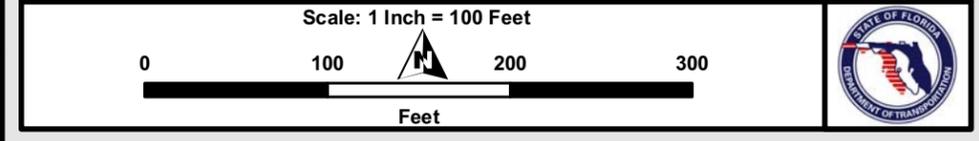
US 92 @ Industrial Pkwy.



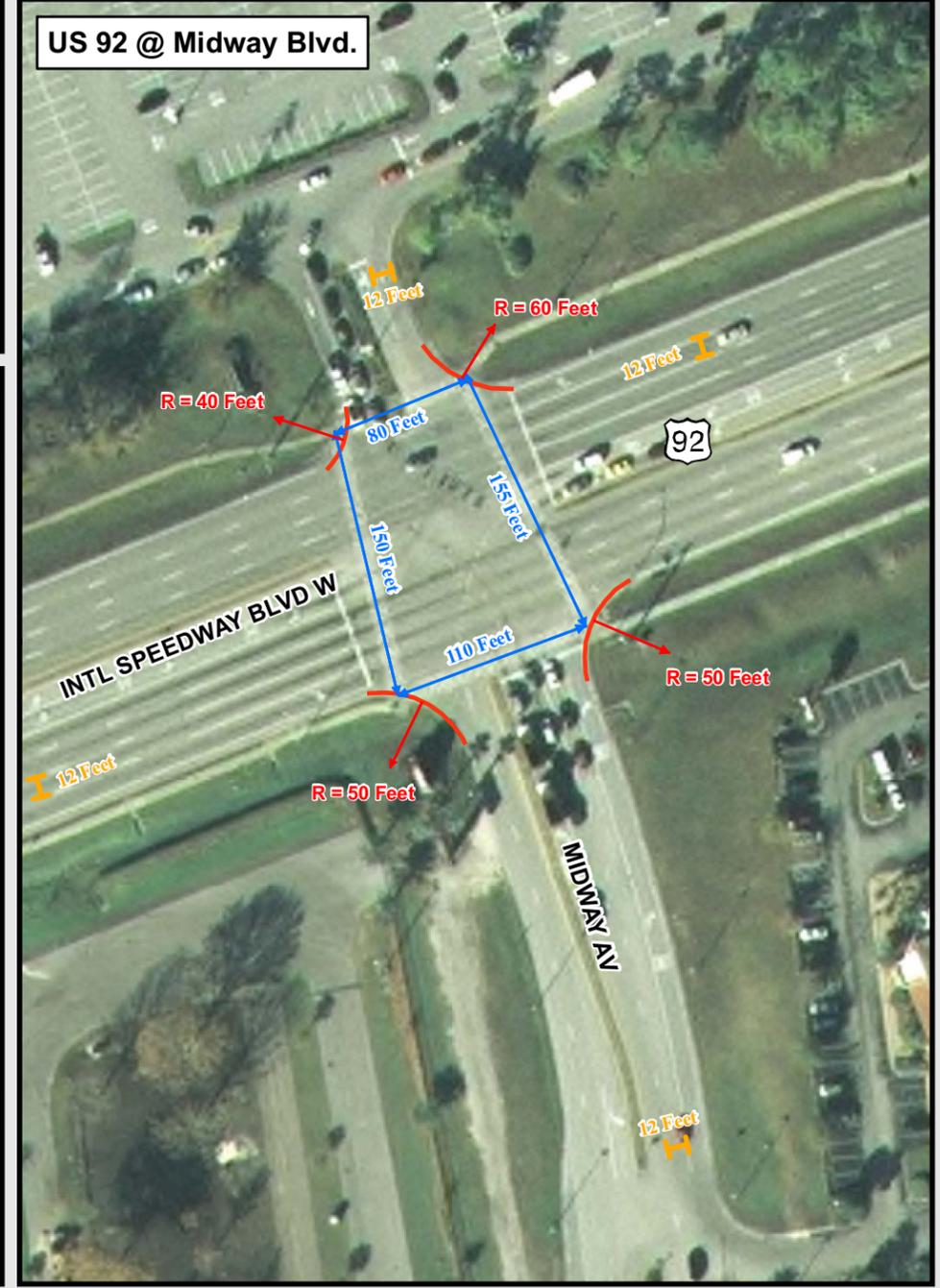
Strategic Intermodal System (SIS)  
Highway Connectors Assessment

Daytona Beach Greyhound Bus Terminal Connector  
Intersection Geometry

Figure  
2E-3b



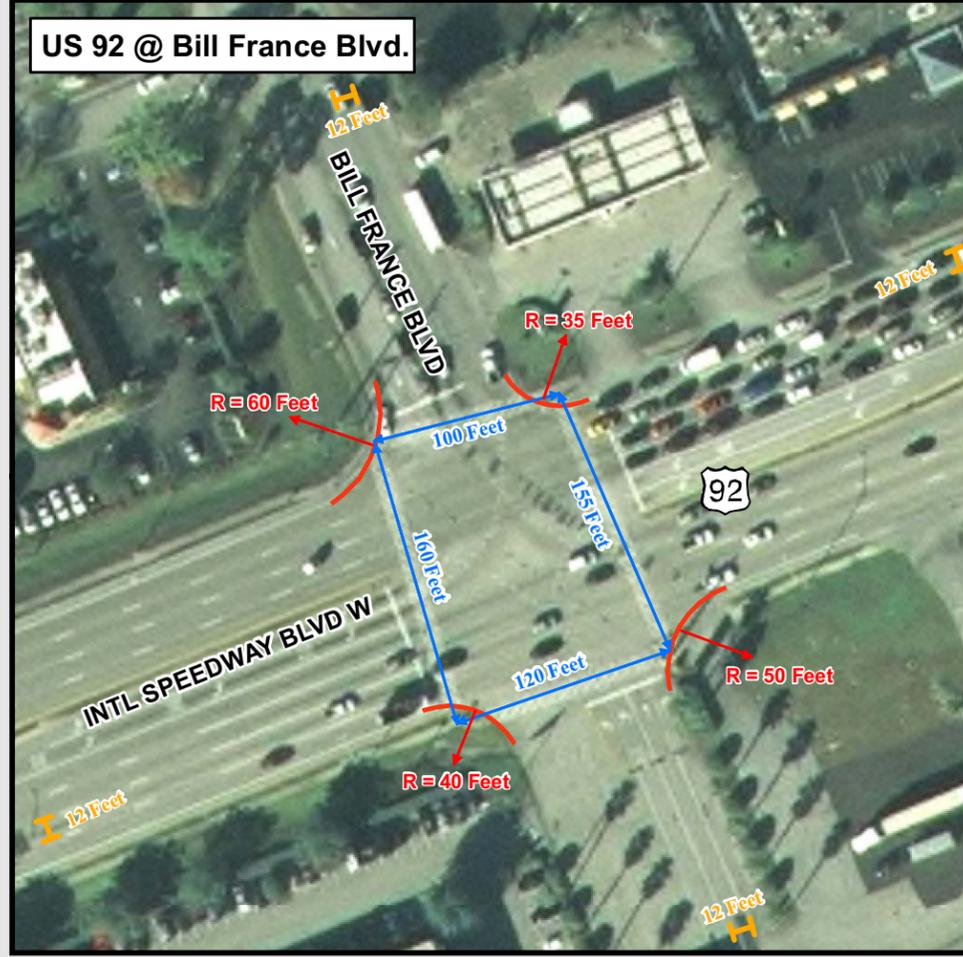
US 92 @ Midway Blvd.



U 92 @ Shopping Center



US 92 @ Bill France Blvd.



Midway Blvd. @ Richard Petty Blvd.



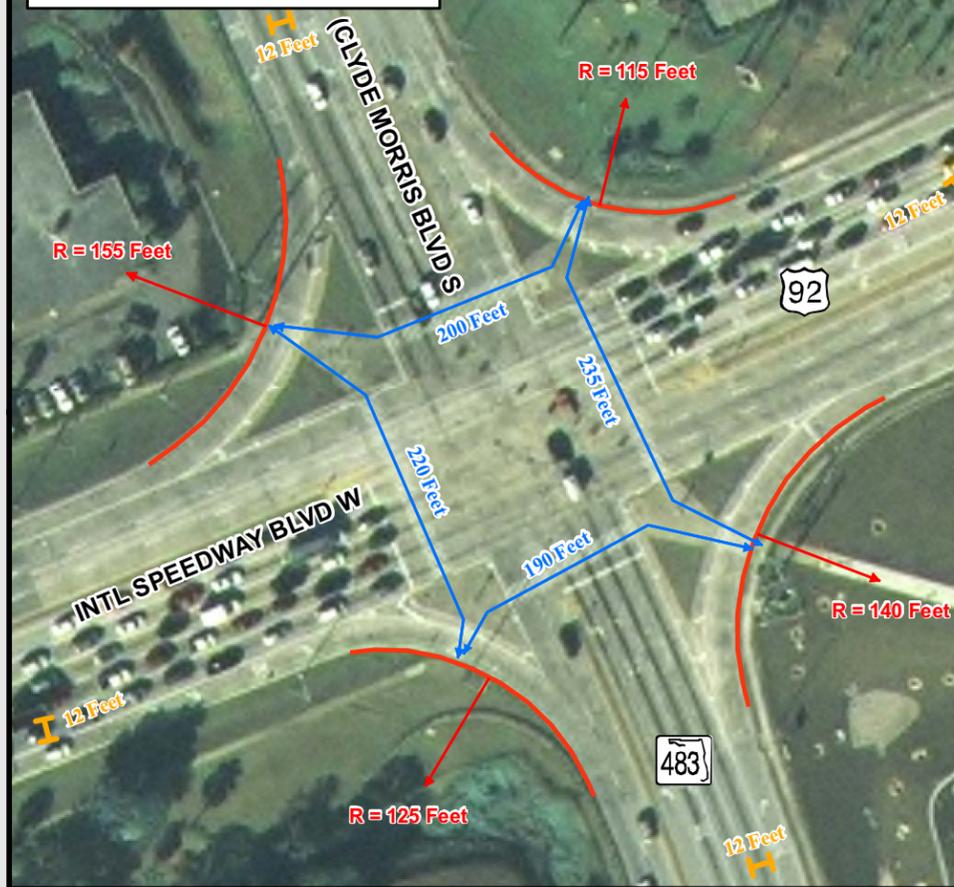
Midway Blvd. @ Catalina Dr.



US 92 @ W.of Corsair Dr.



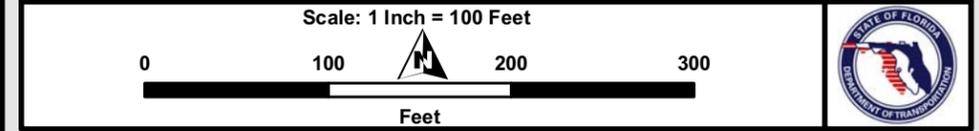
US 92 @ Clyde Morris Blvd.



Strategic Intermodal System (SIS)  
Highway Connectors Assessment

Daytona Beach Greyhound Bus Terminal Connector  
Intersection Geometry

Figure 2E-3c



US 92 @ White St.





Florida Department of Transportation

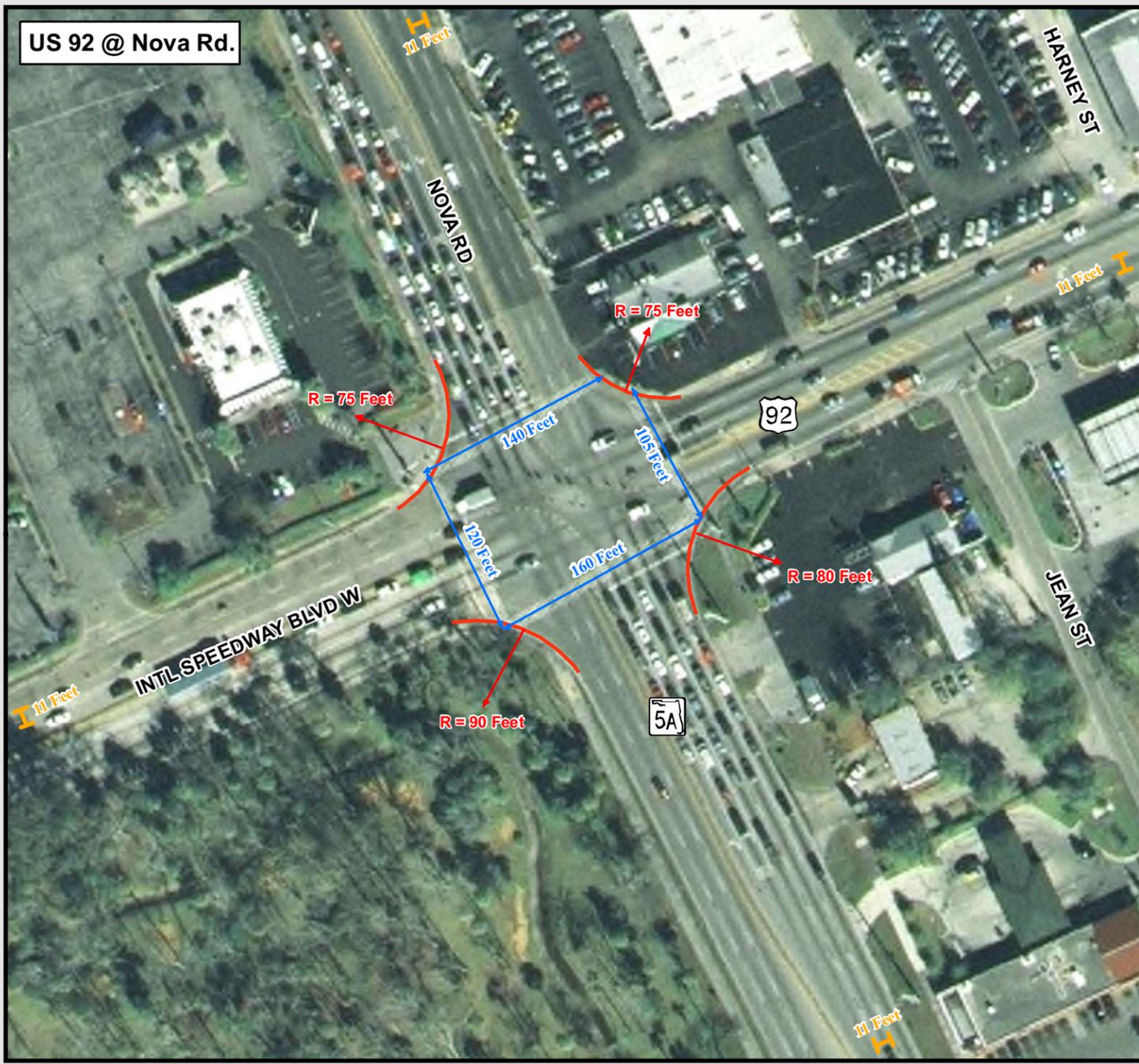
**Strategic Intermodal System (SIS)  
Highway Connectors Assessment**

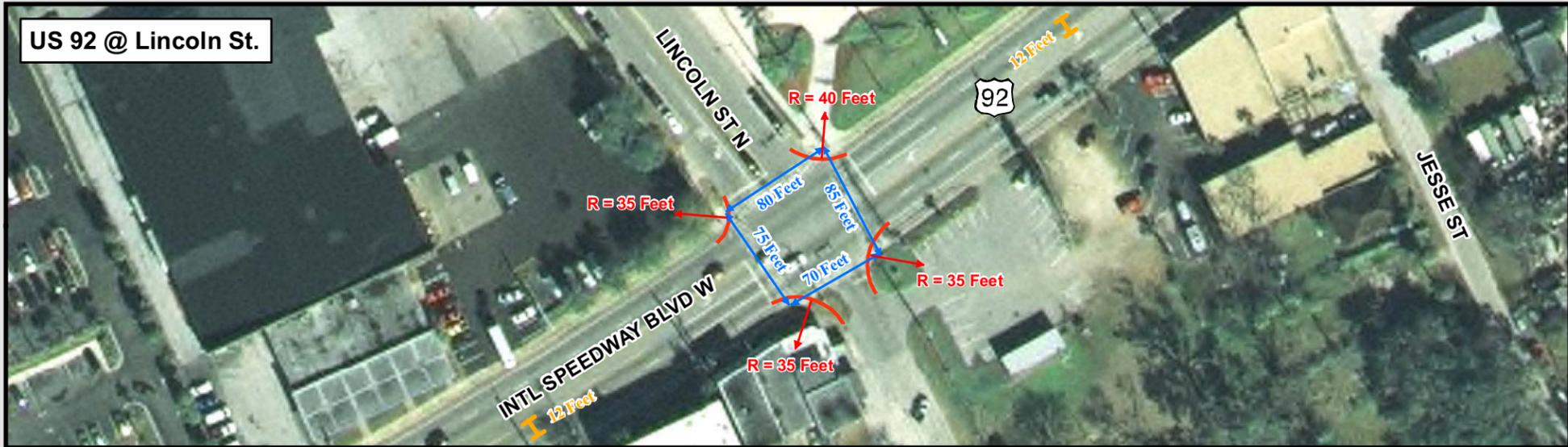
Daytona Beach Greyhound Bus Terminal Connector  
Intersection Geometry

Figure 2E-3d

Scale: 1 Inch = 100 Feet

0 100 200 300  
Feet





Florida Department of Transportation

Strategic Intermodal System (SIS)  
Highway Connectors Assessment

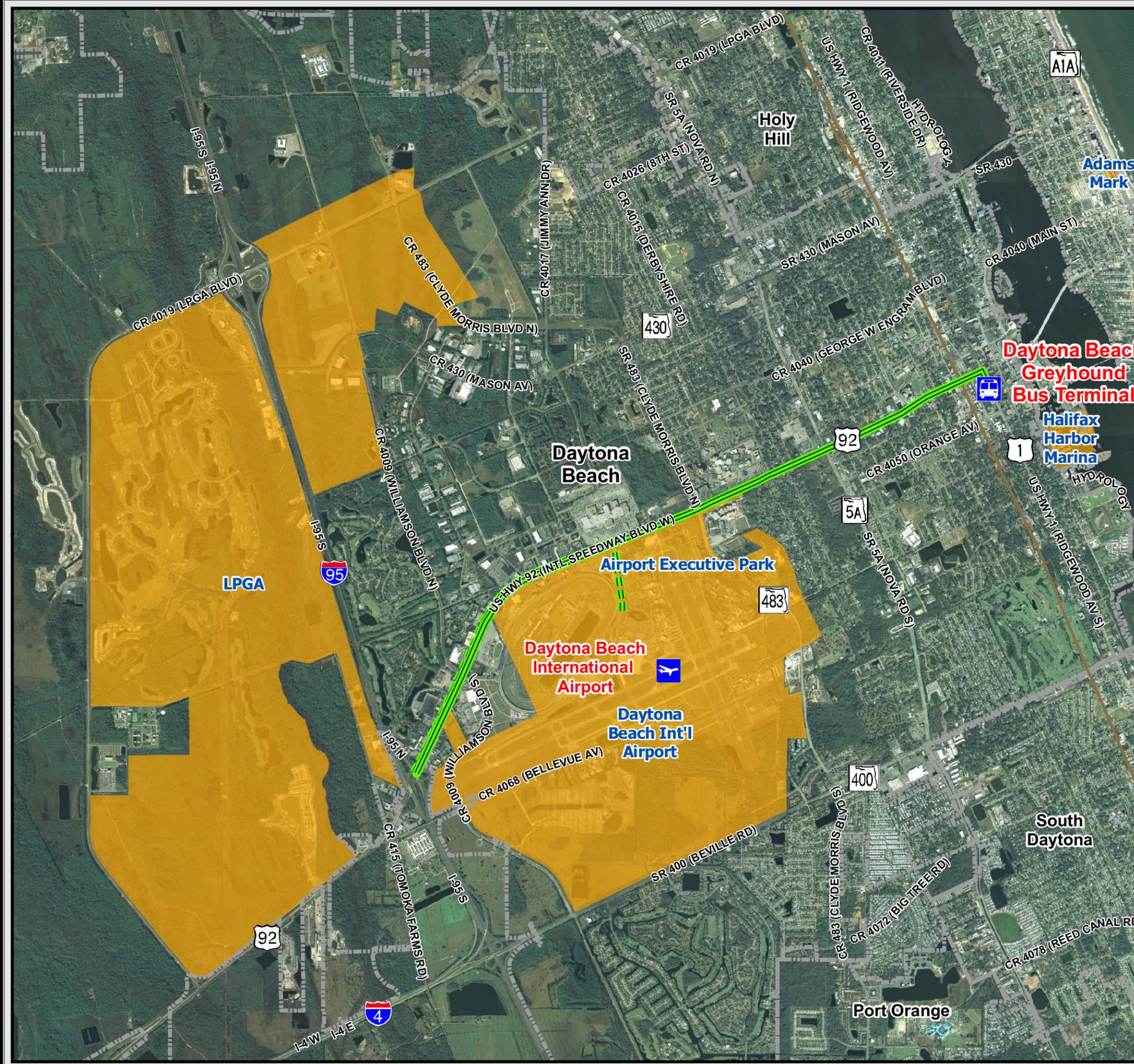
Daytona Beach Greyhound Bus Terminal Connector  
Intersection Geometry

Scale: 1 Inch = 100 Feet

0 100 200 300  
Feet

Figure 2E-3e





Florida Department of Transportation

### Strategic Intermodal System (SIS) Highway Connectors Assessment

**Daytona Beach Greyhound Bus Terminal Connector - DRIs within 5 Miles from Connector** Figure 2E-4

SIS Highway Connector	City Limits
Emerging SIS Highway Connector	Approved DRI*
Daytona Beach Intl. Airport Connector	Proposed DRI*

\* SOURCE: FDOT 2009

0 0.7 1.4 2.1 Miles

