21. TRANSPORTATION

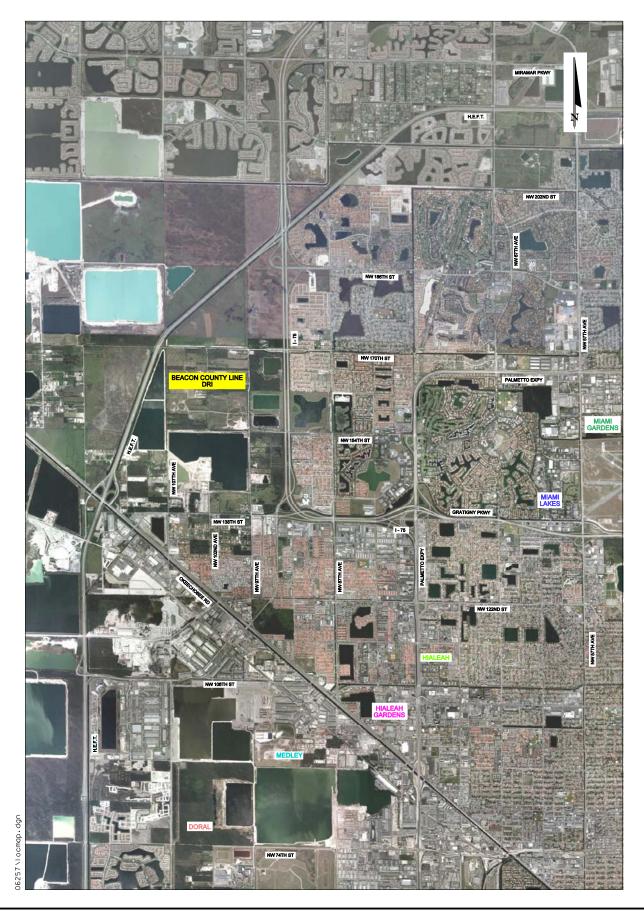
Α. Using Map J or a table as a base, indicate existing conditions on the highway network within the study area (as previously defined on Map J), including AADT, peak -hour trips, directional traffic split, levels of service and maximum service volumes for the adopted level of service (LOS). Identify the assumptions used in this analysis, including "K" factor, directional "D" factor, facility type, number of lanes and existing signal locations. (If levels of service are based on some methodology other than the most recent procedures of the Transportation Research Board and FDOT, this should be agreed upon at the pre application conference stage.) Identify the adopted LOS standards of the FDOT, appropriate regional planning council, and local government for roadways within the identified study area. Identify what improvements or new facilities within the identified study area. Identify what improvements or new facilities within this study area are planned, programmed, or committed for improvement. Attach appropriate excerpts from published capital improvement plans, budgets and programs showing the schedules and types of work and letters from the appropriate agencies stating the current status of the planned, programmed and committed improvements.

Background

Beacon Countyline DRI is a proposed commercial mixed-use development that is expected to energize a largely underutilized area of the City of Hialeah. The Project seeks to redevelop a former construction and demolition landfill area into warehouse, office, retail and hotel uses. The Property consists of approximately 500 acres located east of the Homestead Extension of the Florida Turnpike (HEFT) and west of I-75 within the City of Hialeah. The Site is bounded on the north by NW 170 Street; on the east by NW 97 Avenue; on the south by NW 154 Street; and, on the west by NW 107 Avenue as shown in **Exhibit 21.1 – Project Location**.

The Project will be developed over a 10 year period, anticipating two years of site preparation and eight years of construction. Buildout is anticipated to occur 10 years after the issuance of a Development Order, or the year 2018. The proposed development program is shown below.

Beacon Countylir Proposed Developmen		
Land Use	Intensity	Acres
Warehouse	4,300,000 Sq. Ft.	270
Office	750,000 Sq. Ft.	58
Retail	350,000 Sq. Ft.	51
Hotel	350 Rooms	8
City Park & Municipal Center (Includes Police & Fire Facilities)	-	60
	Source: The	Curtis Group



Source: David Plummer & Associates

Exhibit 21-1 PROJECT LOCATION

Beacon Countyline DRI

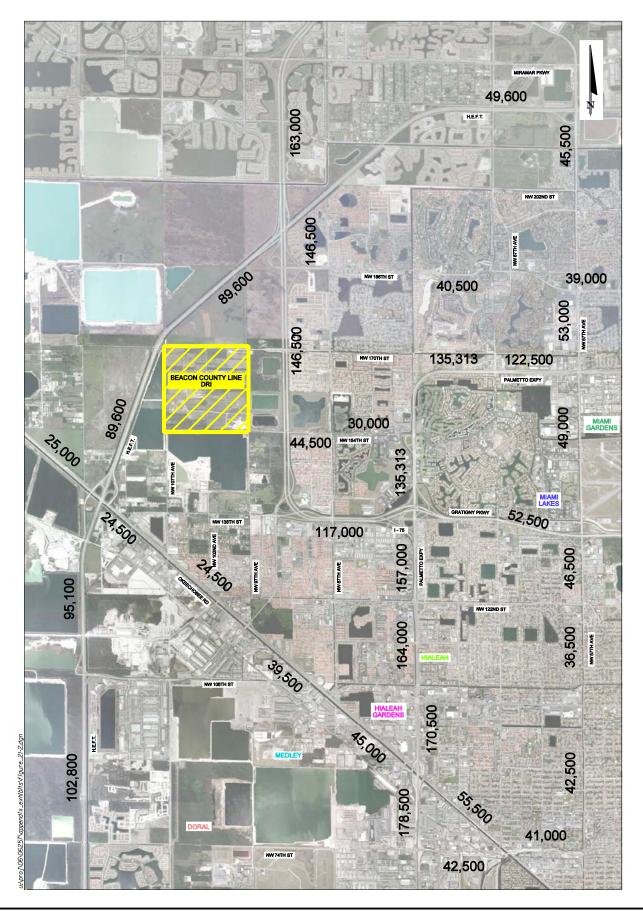
This section of the Application for Development Approval (ADA) analyzes and discusses existing and future traffic conditions including programmed roadway improvements, background traffic growth, traffic generated by other developments in the area, and Project traffic.

The traffic impact area, shown on Map J - Traffic Impact Area located in Question 9 -Maps, was defined during the methodology discussions at the projects Pre-Application Conference in consultation with the South Florida Regional Planning Council and other review agencies. For ease of review, the approved methodology is included in Appendix 21-1(R) - Approved Methodology. The traffic analysis study area was initially defined as Miramar Parkway to the north, NW 74 Street to the south, NW 57 Avenue (Red Road) to the east, and theoretical NW 157 Avenue to the west. It was also agreed during methodology discussions that ultimately boundaries of the final study area, as well as the segments to be analyzed, will be established by determining which links are significantly impacted by Project traffic. According to DRI rules, significant impact is measured as development traffic volumes consuming five percent or more of the roadway's peak hour service volume (as described in the corresponding section). The preliminary study area would be extended if significant consumption is established beyond the proposed initial limits. Project consumption for all the regionally significant roadways in the study area has been determined based on the analysis described in subsequent sections. The preliminary study area was found adequate.

Comprehensive Plans for the local municipalities in the study area were reviewed to establish the analysis period for roadways within their boundaries. PM peak period average annual traffic conditions (the average of the two highest consecutive hours of traffic volume during a weekday) were analyzed for existing conditions on all roadways within Miami-Dade County and other municipalities in the study area. The analysis reflects PM peak hour 100th highest hour conditions on all FIHS roadways, consistent with Florida Department of Transportation (FDOT) standards for these facilities. For traffic impact purposes, the year 2007 was considered existing conditions. It was agreed at the Pre-Application Conference that only PM peak period (peak hour on FIHS roads) traffic volumes would be reported and analyzed. However, as requested in the questionnaire, Annual Average Daily Traffic (AADT) volumes are shown where available (for reference purposes only) in **Exhibit 21.2 (R) – 2006 Annual Average Daily Traffic**, for regionally significant roadways in the study area. These are the latest available counts from FDOT at this time. They were updated to 2007 conditions using the background growth rates listed in Section D of this report.

Service volumes for regionally significant roadways were obtained from the Generalized Service Volumes Tables published in FDOT's 2002 Quality/Level of Service Handbook and the supplemental Level of Service Issues – 2002 QLOS Handbook Addendum-May 17 2007.

Traffic data for the regionally significant roadways in the study area were obtained from several sources. Existing traffic counts were obtained from the Miami-Dade County Public Works Traffic Engineering Section, the latest available counts from Broward County, Florida Department of Transportation (FDOT) 2006 traffic count volume data, and, where necessary, 24-hour machine counts and/or peak hour intersection turning movement counts secured by David Plummer and Associates.



Source: David Plummer & Associates

Exhibit 21-2 (R) 2006 ANNUAL AVERAGE DAILY TRAFFIC

Beacon Countyline DRI

Counts taken in 2006 were adjusted to 2007 conditions using the area background traffic growth rate. Daily traffic counts were converted to directional peak period counts by applying "K" and "D" factors published in the Miami-Dade County, Broward County or FDOT data bases. K and D factors used on all FIHS roads were checked against the FDOT's minimums. All traffic counts and factors used to establish existing traffic conditions are included in **Appendix 21-2 (R) – Traffic Counts and Adjustment Factors**.

Table 21-1 (R) – Existing Traffic Conditions, shows the number of lanes, traffic volumes, service volumes, existing volume to service volume ratios and the applicable LOS standard for each regionally significant roadway that was analyzed. HCS+ freeway analysis was performed for the portion of I-75 between NW 138 Street and SR 826. This facility operates as a 10-lane facility, with lanes to and from the ramps at the interchanges on either side extending through the length of the segment. However, since two of these lanes can be considered auxiliary, HCS+ was run with for this segment to determine the adequacy of eight lanes. Worksheets are included in **Appendix 21-3(R) – HCS+ Analysis**. The analysis shows that this segment of I-75 will meet the adopted LOS standard for future conditions with project.

A column is also included in **Table 21-1 (R) – Existing Traffic Conditions**, showing roadways that are currently backlogged. The Florida Legislature enacted House Bill 7203, effective July 1, 2007, to ensure that Developments of Regional Impact should mitigate its impacts on the transportation network, but that it should not be responsible for the additional cost of reducing or eliminating backlogs. Backlogs can be interpreted in two ways: as roadways not meeting the applicable level of service standard at the Project's buildout year prior to the addition of Project traffic (including other growth and approved projects); or, as roadways currently not meeting the adopted level of service standards.

Presently, the following roadway improvements are needed to meet the adopted level of service standards in the area based on the existing traffic demands:

- SR 826 Palmetto Expressway, between Red Road (NW 57 Avenue) and NW 67 Avenue; eight lanes are currently needed;
- SR 826 Palmetto Expressway, between NW 67 Avenue and NW 122 Street, 10 lanes are currently needed;
- SR 826 Palmetto Expressway, between NW 122 Street and NW 74 Street, 12 lanes are currently needed;
- I-75 between Miramar Parkway and NW 138 Street, 10 lanes are currently needed;
- The Homestead Extension of the Florida Turnpike (HEFT), between I-75 and NW 74 Street, eight lanes are currently needed;
- Miami Gardens Drive (NW 186 Street) between I-75 and NW 87 Avenue, six lanes are currently needed; and,
- NW 138 Street, between NW 97 Avenue and Beacon Station Boulevard, four lanes are currently needed. However, six lanes are programmed for improvement in the Miami-Dade County TIP.

				TABLE 21-1 (R)	(R)							
		Existing Traf	fic Co	Existing Traffic Conditions (weekday, one-way, PM peak)	ekday, on	в-way, РМ ре	ak)					
			۳.	Beacon Countyline DRI	line DRI							
Roadway	rin	Limits	Directi	Directi Directional # of	Roadway	Municipality	SOT	Volume	Service	VISV	Meets	Backlogged
	From	To	0	Lanes	Type		STD	(2007)	Volume		STD?	Facility? (1)
Palmetto Expressway	Red Road/NW 57 Av	NW 67 Av Ludlem Rd	EB	310	FIRS	Miami Lakes	Q	7,053	5,410	130	o N	Yes
(070 NO)	NW 67 Av/Ludiam Rd	Miami Lakes Drive	RE	999	FIHS	Miami Lakes	٥	7,791	5,410	1,44	2 2	Xes X
	Miami Lakes Drive	1-75	B BB	3.00	FIRS	Miami Lakes	٥	7,791	5,410	1.12	0 °Z	Yes
		The same of the sa	es s	310	5	The state of	(6,060	5,410	1.12	oN:	Yes
	170	W 58 SINW 122 Street	88	99	SHI	Highean	0	7,031	7,380	0.95	X No	No No
	W 68 SUNW 122 Street	W 49 Street/NW 103 St	98	974	FIRS	Hialeah	٥	9,443	7,380	128	ON X	Yes
	W 49 StreetNW 103 St	Okeechobee Rd/US 27	9 9	200	FIRS	Hisleah/Hisleah	0	9,817	9,340	105	° N	Yes
	Okeechobee Rd/US 27	NW 74 Street	88	200	SHE	Gardens	0	10,278	9,340	1.10	S o N	Ves
Annual Def Assessment Challants	Manni Cardina Dite.	AUAN ATO Chance	SS	SLD SLD	Collector	Marie Dad	c	7,994	9,340	0.86	Yes	2
28 Avenue	Midfill Galogits Line	NAV 170 SERRE	S S	1 L (no LT lanes)	Conecto	MIGHIPOGOG	0	448	808	0.74	Yes	0 0
	NW 170 Street	Miami Lakes Drive	E E	NA	NA	Miami Lakes	Y.	0	N.A.	A Z	N.	NA
	Miami Lakes Drive	-75	88	SLD A	Collector	Miami Lakes	٥	1,108	1,620	N 0.68	K Z	A S
			SB	2 LD				848	1,620	0.52	Yes	o _N
1-75	Miramar Parloway	HEFT	98	410	SHE	Miramar	۵	8,441	7,480	1.13	oN S	Yes
	HEFT	NW 186 Street	99	9 4	FIRS	Miami-Dade	٥	7,587	7,380	103	S o	Yes
			8	4.6				6,326	7,380	0.86	Yes	o _N
	NW 186 Street	NW 138 Street	9 9	9.5	FIES	Mismi	٥	7,587	7,380	1.03	o _N	Yes
	NW 138 Street	SR 826	8 8	39	FIRS	Miami	0	5,053	NA(2)	NA(2)	Yes (2)	No (2)
			WB	410		Lakes/Hialeah		6,059	NA(2)	NA(2)	Yes (2)	No (2)
NW 97 Avenue	NW 170 Street	NW 154 Street	98	A A	Ž	Hisleah	ž	00	NA N	A N	K Z	A N
	NW 154 Street	NW 138 Street	9	NAN	N.	Hisleah	ž	0	ž	Z Z	ž	NA.
	Action of the Party	14/40/04/14	88	ď.	100	Andrew Property	(0 (AN S	Z C	ž,	N.
	NW 138 Street	W 58 STREET	2 8		Collego	Gardent	0	136	8 22	0.18	Yes	0 0
NW 107 Avenue	NW 166 Street	NW 162 Street	9	NA	NA	Hislesh/Hislesh	ž	0	N.	ď.	ž	Ž:
	ALIAN ART Chance	AURI 484 Charact	999	Z Z	114	Gardens	414	0 0	NA S	d s	K :	Z Z
	199 DE 201 MAI	Jaage sel AAN	g 85	13	Ę	Gardens	É	00	S S	Z Z	5 5	Z Z
	NW 154 Street	NW 138 Street	g g	2	Collector	Higlesh/Higlesh	٥	120	809	0.20	Yes	NA.
	NW 138 Straat	Okaachobaa Ddfl IS 37	9 2	NA OIC	Collector	History Cardene	c	117	1620	0.19	Yes	g 2
	100 00 001	Overdinger Nacous	88	200	Company	Chigh of the control	0	337	1,620	0.21	Yes	2 oz
HEFT	NW 57 Av (Red Road)	1-75	90	500	FIHS	Miramar	0	3,163	3,580	0.88	Yes	2 Z
	F75	NW 170 Street	몽	998	FIRS	Miami-Dade	٥	5,713	5,530	1.03	S S	Yes
			SB	3.5	-		-	3,934	5,530	0.71	Yes	°Z,
	NW 170 Street	Okeechobee Rd/US 27	S S	998	SE.	Mami- Dade/Hisleath	٥	3,934	5,530	1.03	o N	S oN
	Okeechobee Rd/US 27	NW 106 Street	98	3.0	FES	Mismi-	0	6,064	5,530	1.10	°Z,	X03
	NW 106 Street	NW 74 Street	9 9	999	FIHS	Miami-Dade	٥	6,555	5,530	1.19	S on	Yes
			SB	3LD				4,514	5,530	0.82	Yes	No

DRI ADA – Second Statement of Information Needed Question 21 – Transportation

7203, passed by the Florida Legislature in 2007, has established that DRIs are responsible to mitgate its impacts on the transportation system but are not responsible for the additional cost of reducing or find backledge. The improvements listed in these columns are the improvements necessary for existing conditions to meet adopted level of service standards in the study area.

9 HCS+ analysis provided in Appendix 21-3.

As agreed at the Pre-Application Conference, intersection capacity analyses was performed where the adjacent link is projected to operate below the adopted level of service standard and Project traffic consumption is five percent or more of the adopted LOS standard Service Volume. The following intersections meet the above referenced quideline:

- NW 87 Avenue/NW 122 Street (W 68 Street), and
- NW 97 Avenue/NW 122 Street (W 68 Street)

Currently, both intersections operate within the adopted level of service standards.

In addition, since the exact location of all proposed Project driveways have not yet been determined; the following intersections will be analyzed for future traffic conditions. These will serve as the principal Project access points to and from the external roadway network:

- NW 107 Avenue/NW 162 Street,
- NW 97 Avenue/NW 170 Street.
- NW 97 Avenue/NW 162 Street, and
- NW 102 Avenue/NW 170 Street

At the request of the Florida Turnpike Enterprise, the at-grade intersections of the proposed HEFT/ NW 170 Street interchange were analyzed. Although the configuration of the interchange has not been formally determined at this time, full access (all movements) to the HEFT interchange is anticipated. The assumed configuration is shown in **Exhibit 21.3 – NW 170 Street Interchange Configuration**.

It was also agreed during methodology discussions that ramp analyses (merging/diverging) would be performed for ramps where the Project traffic is projected to reach or exceed 200 vph, consistent with FDOT guidelines. The assignment of Project traffic on all ramps, including the I-75/Miramar Parkway interchange, was checked to identify the ramps that meet these criteria. The following ramps were analyzed:

- HEFT/I-75,
- I-75 / NW 138 Street Ramps to/from the east, and,
- I-75 / SR 826 to/from the south.

AM Peak hour analyses were performed in the reverse direction for the impacted ramps.

Weaving, as defined in the Highway Capacity Manual, is created when a merge area is closely followed by a diverge area or when an on-ramp is closely followed by an off ramp and the two are joined by an auxiliary lane. Based on the above definition, weaving analysis is not applicable at the junction of HEFT and I-75, since the on and off ramps are not placed in close proximity and are not connected by an auxiliary lane. HCM recommends that each merge/diverge movement be considered separately using the ramp terminal (merge/diverge) methodology, as performed above.

Based on the analysis performed, the following ramp improvements are needed for existing conditions to meet the adopted level of service standards:

- HEFT north-east bound to I-75 northbound ramp, add northbound through lane (I-75) at merge area;
- I-75 eastbound to SR 826 southbound ramp, add one ramp lane at diverge area;
- I-75 eastbound to Palmetto Expressway (SR 826) southbound, add a mainline thru lane (SR 826) at merge area.

Intersection Capacity Analysis and Ramp Analysis worksheets for existing traffic conditions are provided in **Appendix 21-3 (R) – HCS Analysis**.





Exhibit 21 - 3
HEFT / NW 170 ST INTERCHANGE CONFIGURATION
BEACON COUNTYLINE DRI

Miami-Dade County's and Broward County's 2008 Transportation Improvement Programs (TIP) were reviewed to determine which roadways in the study area are programmed for improvements. Corresponding TIP page excerpts are included in **Appendix 21-4 (R) – Transportation Improvements Documentation**. The City of Hialeah was also consulted to ensure that all programmed improvements within the City are included in the analysis. Only those improvements programmed for construction in the first three years of the TIP or five years of the local Capital Improvement Elements were considered in the analysis. **Table 21-2 (R) – Committed Roadway Improvements**, presents a list of committed developments in the study area.

TABLE 21-2 (R) Committed Roadway Improvements Beacon Countyline DRI

Project Number	Roadway	Lin	nits	Type of Work	Phasing
DT2499412	SR 823 / NW 57 Ave	SR 934 / W 21 St	W 34 S	Add Lanes & Reconstruct	
DT4164233	SR 25 / Okeechobee Rd	NW 138 St		Intersection (Minor)	
DT4164234	SR 25 / Okeechobee Rd	NW 105 Way		Add turn lane(s)	
DT4075772	SR 25 / NW 103 St	NW 103 St	W 2 Ave	Intersection (Minor)	CST 2008
PS0000102A	NW 112 Ave	NW 84 St	NW 85 St	2 lanes, sidewalks, and drainage	
PS0000102B	NW 82 St	NW 113 Ave	NW 117 Ave	2 lanes, sidewalks, and drainage	
PS0000101A	NW 82 St	NW 114 Ave	NW 115 Ave (so. Side)	2 lanes, sidewalks, and drainage	
PS000023	NW 107 Ave	NW 122 St	S River Dr	Reconstruct NW 107 Ave / New flyover ramp	
PS000025	NW 90 St	NW 114 Ave	NW 112 Ave	New construction: 2 lanes	
PW0000110	NW 97 Ave	NW 138 St	NW 154 St	New 4 lanes	
PW0000111	NW 138 St	NW 107 Ave	I-75	Widening: 2 to 6 lanes	CST 2012
PW000326	NW 138 Street Bridge	Bridge over Miami River	NW 138 St	Bridge Construction	CST 2008
PW000031	NW 74 St	NW 87 Ave	NW 84 Ave	New construction: 4 lanes	
PW000075	W 60 St	W 12 Ave	W 4 Ave	Widening: 2 to 3 lanes	CST 2008
PW000328	NW 62 Ave (W 8 Ave)	NW 138 St	NW 105 St	Widening: 2 to 3 lanes	
PW000501	NW 112 Ave / 138 St	Miami Canal		Sonovoid Bridge Renovation	Complete
PW20040271	NW 87 Ave	NW 162 St	NW 170 St	Widening: 2 to 4 lanes	
PW20040355	NW 74 St	HEFT	NW 82 Ave	New 6 lanes	CST 2009
PW20040390	NW 87 Ave	NW 154 St	NW 186 St	Widening: 2 to 4 lanes	CST 2010
PW610157S	W 24 Ave	W 52 St	W 76 St	Widening: 2 to 5 lanes	CST 2012
PW662347	NW 72 Ave	NW 74 St	Okeechobee Rd	Widening: 2 to 4 lanes and bridge	CST 2009
PW662347S	NW 72 Ave	NW 74 St	Okeechobee Rd	Widening: 2 to 4 lanes and bridge	CST 2009
PW671916	NW 62 Ave	NW 105 St	NW 138 St	Widening: 2 to 3 lanes	
DT4161171	SR 826 / NW 122 St	West 21 Ct	East of W 20	Intersection (Major)	CST 201
DT4147312	SR 934 / NW 74 St	SR 821 / HEFT	NW 79 Ave	New Road Construction	CST 2008
PW671951	W 68 St	W 19 Ct	W 17 Ct	Add lane on south	CST 2008
				side and signalize	
TP2519381	Homestead Extension	Florida Turnpike (HEFT)	I-75 Interchange	Interchange (Major)	

Revised April 2008

The Developer of Beacon Countyline DRI is committed to pursuing an interchange at HEFT/NW 170 Street and has determined that they do not intend to proceed with development beyond a certain amount of Project trips until the contemplated interchange is committed, constructed and/or caused to be constructed. The construction of this interchange has been included in the analysis, in addition to the committed roadway improvements listed in **Table 21-2 (R) – Committed Roadway Improvements**. It is the Applicant's intent to uses this analysis to establish the appropriate timing of the interchange. The interchange will be subject to justification and approval of Florida's Turnpike Enterprise. Analysis of future traffic conditions includes an interchange at this location.

Other improvements to the external roadway network included in the analysis are listed below:

- NW 170 Street between the HEFT and NW 97 Avenue, new four lane road (the Project needs four lanes in this section. The developer on the north side of NW 170 Street will be responsible for the additional two lanes during the development of this property at a later time);
- NW 170 Street between NW 97 Avenue and I-75 overpass, new two lane road;
- NW 107 Avenue between NW 166 Street and NW 138 Street, new two lane road; and,
- NW 97 Avenue between NW 170 Street and NW 154 Street, new four lane road.

In order to establish the impact of the proposed interchange and the proposed roadway network, the transportation model was run first for future (2018) traffic conditions without Project with the committed roadway network, and then with the committed network plus the interchange and roadways listed above. **Appendix 21-5 (R) – Diversions Documentation**, provides a detailed explanation of the diversions obtained from the traffic patterns in the area, as well as model runs for the area, and exhibits graphically portraying these.

Planned improvements within the study area were also researched in both the Miami-Dade and Broward County's Long Range Transportation Plan. These improvements are provided for informational purposes only in **Table 21-3 – Planned Roadway Improvements**.

TABLE 21-3 Planned Roadway Improvements Beacon County Line DRI

Map Number	Priority	Funding Availability	Roadway	Limits	Type of Work
1	I	Funded by 2009	SR 826	FEC Railroad to NW 103 Street	Widen from 8 to 10 Lanes
2	I	Funded by 2009	Okeechobee Road (SR 25)	W 12 Avenue to W 19 Street	Widen from 4 to 6 Lanes
3	I	Funded by 2009	NW 87 Avenue	NW 74 St to Okeechobee Road	New 4-lane Road
4	_	Funded by 2009	NW 57 Avenue (SR 823)	W 21 (SR 934) to W 49 (SR 932) Street	Widen from 4 to 6 Lanes
5	1	Funded by 2009	NW 57 Avenue (SR 823)	Okeechobee Road to W 21 St (SR 934)	Widen from 4 to 6 Lanes
6	1	Funded by 2009	Okeechobee Road (SR 25)	SR 826 to W 12 Avenue	Add Lanes
7	I	Funded by 2009	NW 72 Avenue	NW 74 St to Okeechobee Road	Widen from 2 to 4 Lanes & bridge
8	1	Funded by 2009	W 24 Avenue	W 52 to 76 Street	Widen from 2 to 4 Lanes
9	1	Funded by 2009	NW 74 Street	HEFT to NW 87 Avenue	New 2 Lanes
10	1	Funded by 2009	NW 74 Street	NW 87 to 84 Avenue	New 4 Lanes
11	- 1	Funded by 2009	NW 122 Street	Okeechobee Road to NW 87 Avenue	Widen from 2 to 5 Lanes
12	- 1	Funded by 2009	NW 138 Street	NW 107 to 97 Avenue	Widen from 2 to 5 Lanes
13	I	Funded by 2009	NW 107 Avenue	Okeechobee Road to NW 138 Street	Widen from 2 to 5 Lanes
14	I	Funded by 2009	NW 87 Avenue	NW 154 Street to Miami Gardens Dr	New Construction
15	1	Funded by 2009	NW 62 Avenue	NW 105 to 138 Street	Widen from 2 to 3 Lanes
16	1	Funded by 2009	Hialeah Expressway (SR 934)	SR 826 to NW 57 Avenue	Widen from 4 to 6 Lanes
17	1	Funded by 2009	NW 57 Avenue (SR 823)	W 49 St (NW 103 St) to NW 138 St	Widen from 4 to 6 Lanes
49	II	2010-2015	I-75	at NW 154 Street	New Interchange
50	II	2010-2015	NW 74 Street	HEFT to SR 826	Widen to 6 Lanes
Ш	П	2010-2015	Okeechobee Road (SR 25)	At Krome, NW 138 St & 95 St	Construct grade separated free-flow lanes
III	III	2016-2020	HEFT	at NW 74 Street	New Interchange
III	III	2016-2020	175	at Miami Gardens Drive	Interchange Improvements
18	III	2016-2020	NW 87 Avenue	NW 58 Street to Okeechobee Rd	Widen to 6 Lanes
19	III	2016-2020	W 60 Street	W 4 to 12 Avenue	Widen from 2 to 3 Lanes
20	IV	2021-2030	HEFT	US 27 to I 75	Widen to 8 Lanes
21	IV	2021-2030	HEFT	SR 836 to US 27	Widen from 6 to 8 Lanes+ 2 Aux Lanes
	IV	2021-2030	HEFT	I 75 to HEFT	Widen from 4 to 6 Lanes
22	IV	2021-2030	l 75	SR 826 to NW 138 Street	Widen from 4 to 8 Lanes
23	IV	2021-2030	Miami Gardens Drive	I 75 to NW 57 Avenue	Widen from 4 to 6 Lanes
24	IV	2021-2030	NW 72 Avenue	NW 122 to 138 Street	Widen from 2 to 3 Lanes
IV	IV	2021-2030	Okeechobee Road (SR 25)	at Krome, Hialeah Gardens Boulevard / NW 116 & 105 Way, NW 87 & NW 79 Avenue	Construct grade separated free-flow lanes
25	IV	2021-2030	SR 924	Eastern Terminus of SR 924 to Okeechobee Road	Expressway Extension
26	IV	2021-2030	W 68 Street	W 21 Court to W 19 Court	Add Lane on south side
27	IV	2021-2030	W 76 Street	W 36 to 20 Avenue	Widen from 2 to 5 Lanes
28	IV	2021-2030	SR 826	I 75 to Golden Glades Interchange	Add 2 HOV Lanes
29	IV	Unfunded	Hialeah Light Rail Transit	Miami Intermodal Center to I 75	Light Rail Transit
30	IV	Unfunded	175	NW 138 Street to MD/Broward Line	Widen from 4 to 8 Lanes
31	IV	Unfunded	I 75 / HEFT	SW 8 St to Broward County Line	Premium Transit
32	IV	Unfunded	NW 97 Avenue	NW 74 to 90 Street	New 4-lane Road
33	IV	Unfunded	NW 87 Avenue	NW 183 Street to County Line	New 2-4 Lanes
34	IV	Unfunded	NW 107 Avenue	NW 138 to 170 Street	New 2 Lanes
35	IV	Unfunded	NW 154 Street	NW 87 to 107 Avenue	New 2 Lanes
36	IV	Unfunded	NW 97 Avenue	NW 138 to 183 Street	2 Lanes
37	IV	Unfunded	NW 90 Street	NW 107 to 87 Avenue	New 2 Lanes
oxdot			Transportation Plan.	1111 TO TO OF AVEILUE	11011 2 Lalles

Source: Miami-Dade County Long Range Transportation Plan.

B. Provide a projection of vehicle trips expected to be generated by this development. State all standards and assumptions used, including trip end generation rates by land use types, sources of data, modal split, persons per vehicle, etc., as appropriate. The acceptable methodology to be used for projecting trip generation (including the Florida Standard Urban Transportation Model Structure or the Institute of Transportation Engineers trip generation rates) shall be determined at the pre-application conference stage.

Trip generation was estimated using rates and/or equations (as applicable) published by ITE in *Trip Generation*, 7th Edition, shown on **Table 21-4 (R) – Trip Generation**. All ITE Land Use Codes and rates or equations utilized for each of the proposed land uses for this DRI have been identified. ITE prescribed adjustments to the trip generation are described in the following sections.

ITE recognizes that data obtained to establish trip generation rates and/or equations is collected at single-use, free-standing sites, and that mixed-use developments provide a potential for interaction of trips within the site, which must be accounted for separately. This will be a mixed-use project and features to encourage interaction between the proposed land uses will be incorporated into the design, resulting in a portion of the Project trips satisfied on-site (*internal trips*). As noted earlier, the relatively isolated location of this property will further encourage internalization within the Project.

Research shows that a percentage of retail trips to and from a site are "pass-by" trips. ITE describes pass-by as trips "attracted from traffic passing the site on an adjacent Pass-by trips are already using the existing roadway network. established that, typically, for retail centers with approximately 350,000 square feet of gross leasable space (SF GLA), such as the one proposed, approximately 28 percent of the trips are pass-by. However, FDOT's Site Impact Handbook suggests that the number of pass-by trips should not exceed 10 percent of the traffic passing-by on adjacent street(s). Pass-by trips for this project are trips attracted from non-project related traffic on NW 170 Street and NW 97 Avenue. For the retail portion of this Project, the rate of pass-by users is limited to 10 percent of the future (2015) traffic volume without project on NW 170 Street between NW 97 Avenue and HEFT. Consistent with ITE's recommendations in the *Trip Generation Handbook*, deductions for pass-by trips will be taken after internal trips are deducted. Pass-by trips were deducted from the total external trips. However, these were manually added to project driveways in order to properly establish the total project impacts. Appendix 21-6 (R) - Pass-by and Diverted Linked Trips Assignment graphically portrays the assignment of these trips on the roadway network adjacent to the project.

ITE also recognizes that "diverted linked trips" are characteristic of shopping centers. ITE describes these as "trips attracted from the traffic volume on roadways within the vicinity of the generator but which require a diversion from that roadway to another roadway to gain access to the site". FDOT's Site Impact Handbook acknowledges that Diverted Trips are not new to the system overall. Diverted linked trips are already using roads in the area, but would deviate momentarily from those roads to access the Project. ITE data shows that for retail establishments approximately 350,000 square feet of gross leasable area, diverted linked trips could account for up to 21 percent of the retail trips. For purposes of this analysis diverted linked trips constitute five percent of the retail trips, as long as the diverted volume does not exceed 10 percent of the volume on the streets where the diversions come from. Diversions are limited to the Homestead

Extension of Florida's Turnpike (HEFT). Diverted linked trips were deducted from the total external trips. However, these were manually added to roadways affected by those diversions, as well as to project driveways in order to properly establish the total project impacts. **Appendix 21-6 (R) – Pass-by and Diverted Linked Trips Assignment** graphically portrays the assignment of these trips on the external roadway network.

TABLE 21-4 (R)
Trip Generation and Internalization
Beacon County Line DRI

Unconstrained Internalization Demand - PM Peak Hour

Reta	il		Office		Warehou	use		Hotel	Pa	ark		
Land Use	820		Land Use 710		Land Use	150	Lan	d Use 310	Land U	Jse 412		
350,000 S	F GLA	7	50,000 SF GFA		4,300,000 SF	F GFA	35	0 Rooms	60 A	Acres		
n (Trips) = 0.66 Ln (1,000 SF) + 3.4	Trips = 0	.37 (1,000 SF) + 60.08	Ln (Trips	s) = 0.79 Ln (1	,000 SF) + 0.54	0.59 7	rips / Room	0.06 Tri	os / Acre		
In	Out	li	n Out		In	Out	In	Out	In	Out		
687	744	15	6 763		318	955	109	98	1	2	3,833	TOTAL ITE
	3%		15%			2%	2%					
	22	22	23			19	2					
2%			23%		0%	2		0%				
14		14	175		0	(0				
	3%			_	15%							
	22		22		48							
2%						23%						
14			14			220						
	12%						31%					
	89		34				34					
9%								53%				
62			52					52				
			1%		6%							
			8	8	19							
		6%				1%						
		9		9		10						
	-		2%				2%					
			15		2		2					
		0%	-					0%				
		0			0			0				

Ralancod	Internalization	Domand - D	M Poak Hour

	Reta	ail	Offi	ce	Wareh	ouse		Hotel	Pa	rk		
	Land Us	e 820	Land U	se 710	Land Us	e 150	Lan	d Use 310	Land U	se 412		
	350,000 \$	SF GLA	750,000	SF GFA	4,300,000	SF GFA	35	0 Rooms	60 A	cres		
n (Trips	s) = 0.66 Ln	(1,000 SF) + 3.4	Trips = $0.37(1,0)$	00 SF) + 60.08	Ln (Trips) = 0.79 Ln	(1,000 SF) + 0.54	0.59	Trips / Room	0.06 Trip	s / Acre		
	In	Out	In	Out	In	Out	In	Out	In	Out		
	687	744	156	763	318	955	109	98	1	2	3,833	TOTAL ITE
												Adjustment Factors
		-22	-22			-2	-2	_				0%
	-14			-14	0			0				
		0			0	_						-100%
	0					0						
		-15					-15	_				-55%
	-23							-23				
			_	-8	-8	_						0%
			-9			-9	_					
				-2			-2	_				0%
		-	0					0				
	650	707	125	741	310	944	92	75	1	2	3,647	External Trips
		5.17%		5.77%		1.51%		19.41%			4.86%	· ·
	-10	-11	-2	-11	-5	-14	-1	-1	0	0	-1.5%	Transit/Pedestrians
	-55	-55									-8%	Pass-By
	-33	-33									-5%	Diverted Linked Trips
	552	608	123	730	305	930	91	74	1	2	3,416	Net New External Trips
					54	164					0.85	Truck Adjustment
												Factor (f HV)
	552	608	123	730	359	1,094	91	74	1	2	3,634	Net New External Trips
												adjusted for Heavy

Note: Adjustment Factor for Heavy Vehicles:

f HV = 1 / (1 + 0.35 (1.5 - 1))

as calculated from equation 21-4 in page 21-7 of the HCM 2000

Revised July 2008

A review of transit availability indicates that there are no existing Miami-Dade bus routes serving this area within a mile of the Project Site. The City of Hialeah Transit System offers two bus routes serving the City, which operate between 6:00 AM and 9:00 PM on weekdays. The City has expressed their commitment to extend existing transit services to the Site. It is anticipated that Miami-Dade Transit (MDT) may also extend its transit system to this area. For this analysis, the average countywide mode split of 1.5 percent (transit ridership) was used.

Due to the proposed warehouse component of the Project, vehicle classification counts were taken at a nearby Beacon Lakes DRI, which is of a similar scale and with similar intended uses (and was also developed by the Applicant) to identify the percent trucks generated by the Project. **Appendix 21-7 (R) – Beacon Lakes Vehicle Classification Counts** shows a summary of these counts. A Heavy-Vehicle adjustment factor was calculated using the Highway Capacity Manual 2000 (HCM 2000) equation 21-4. The net new external warehouse trips were then adjusted by the inverse of this factor to obtain a passenger car equivalent, as recommended in the Highway Capacity Manual.

C. Estimate the internal/external split for the generated trips at the end of each phase of development as identified in (B) above. Use the format below and include a discussion of what aspects of the development (i.e., provision of on-site shopping and recreation facilities, on-site employment opportunities, etc.) will account for this internal/external split. Provide supporting documentation showing how splits were estimated, such as the results of the Florida Standard Urban Transportation Model Structure (FSUTMS) model application. Describe the extent to which the proposed design and land use mix will foster a more cohesive, internally supported project.

Adjustments made to the trip generation estimates obtained from ITE trip generation rates and/or equations are discussed in the previous section.

Beacon Countyline DRI is a mixed-use commercial development incorporating warehouse, retail, office and hotel uses. The relatively unique location and mixed use nature of the Project will allow some trips to be satisfied within the Site. Project design will incorporate many aspects of the Hialeah Heights Plan that is being promoted by the City to encourage coordination of internal movements between land uses by vehicles as well as pedestrians, and thus reduce the impact on the external network, such as on-site continuous driveway network throughout the entire Site and sidewalks to encourage pedestrian trips within the Site. Transit amenities to support the extension of the City of Hialeah and the Miami-Dade County Transit Services will be provided. These will include, but will not be limited to, bus stops, shelters, and benches.

D. Provide a projection of total peak hour directional traffic, with the DRI, on the highway network within the study area at the end of each phase of development. If these projections are based on a validated FSUTMS, state the source, date and network of the model and of the TAZ projections. If no standard model is available or some other model or procedure is used, describe it in detail and include documentation showing its validity. Describe the procedure used to estimate and distribute traffic with full DRI development in subzones at buildout and at interim phase-end years. These assignments may reflect the effects of any

new road or improvements which are programmed in adopted capital improvements programs and/or comprehensive plans to be constructed during DRI construction; however, the inclusion of such roads should be clearly specified. Show these link projections on maps or tables of the study area network, one map or table for each phase-end year. Describe how these conclusions were reached.

Average Daily Traffic (ADT) counts published by FDOT, Miami-Dade and Broward Counties were reviewed to determine historic growth in traffic volumes along the roadway links within the study area. It was agreed during methodology discussions that different growth rates would be calculated for the surface streets, HEFT, I-75 and SR 826. Because of the different land use characteristics between the portions of the study area in Miami-Dade and Broward Counties, different growth rates were also calculated for each of these areas.

Background growth rate calculations are based on a five-year historical trend analysis of all roadways, except for the Homestead Extension of Florida's Turnpike (HEFT). A review of the traffic model projected volumes for this facility confirms that the high rate of traffic growth experienced in the last five years cannot be sustained over the next 10 years.

A 10-year trend analysis was performed at the only permanent count station on HEFT in the study area (at Okeechobee Plaza). The results show that during this time period, the facility grew six percent annually. However, data forecasts obtained from the 2000 and 2030 Modified MPO's Adopted Long Range Transportation Plan FSUTMS model for this area of Miami-Dade County show that population is anticipated to grow annually at a rate of 1.1 percent, while employment is anticipated to grow at an annual rate of 1.8 percent. Furthermore, traffic volumes obtained from the FSUTMS model adjusted by the Turnpike Enterprise and used for the distribution of Project traffic shows that HEFT is forecasted to grow at an average rate of 2.3 percent per year between 2012 and 2032.

The six percent background growth rate based on the 10-year growth trend analysis is used in the analysis as the base for predicting future traffic conditions on HEFT. The result is a gross overestimation of future needs of this facility. The existing 6-lane facility between NW 106 Street and NW 74 Street might need to be widened to 12 lanes for future (2018) conditions. An alternate analysis of HEFT is provided in **Appendix 21-8 (R)** – **Alternate HEFT Analysis**, showing growth consistent with the FSUTMS model projections for this facility. Future (2018) conditions will likely warrant improvements to HEFT to a total of 10 lanes along the sections mentioned above.

Calculations are provided in **Appendix 21-9(R)** – **Background Growth Rate Calculations**. The following growth rates were determined for the study area:

Background Growth R Beacon Countyline D	
HEFT	6.0%
1-75	2.3%
SR 826	1.4%
Miami-Dade County surface streets	0.6%

Historic increases in traffic comprise a number of components, including existing development traffic, normal changes in traffic volumes due to motorist travel behavior, and traffic generated by new development. The proposed analysis would specifically account for committed development projects. Therefore, it is anticipated that the compounded background traffic growth rate (excluding committed developments) will constitute half of the historic growth rate, in addition to committed developments in the area.

In consultation with the South Florida Regional Planning Council and local governments within the study area, a list of committed developments has been compiled. Consistent with guidelines pertaining to DRIs, all approved projects anticipated to generate 400 pm peak hour trips are considered committed in this study. **Table 21-5 – Committed Developments**, provides a summary of developments and the pm peak hour trips associated with each development. **Appendix 21-10 (R) – Committed Developments Documentation**, provides additional information including the location, proposed land uses and sizes, trip generation and the source of the information for each committed development included in this study. When available, trip generation and external trip distribution for committed developments were obtained from traffic studies prepared during their approval process.

For other developments, trip generation was obtained from the local municipality or it was performed using ITE rates and/or equations for the proposed land uses. For the developments listed in the Town of Miami Lakes, the trips estimated in their January 2006 Concurrency Management Report were used for this analysis. Committed development trips were assigned to the roadway network using either distributions from traffic studies, annual reports, or the appropriate cardinal distribution from the long range plan update published by Miami-Dade Metropolitan Planning Organization. Trip distributions for each committed development are also provided in **Appendix 21-10(R) – Committed Developments Documentation**. Link analysis of future traffic conditions without the Project for the study area is provided in **Table 21-6 (R) – Future Background and Committed Developments Traffic**. Intersection capacity analyses worksheets for this scenario are provided in **Appendix 21-3 (R) – HCS Analysis**.

TABLE 21-5 Committed Developments Trip Generation Beacon Countyline DRI

Development	Land Use	PM Peak Hour Trip G	Seneration*
		In	Out
East Miramar Areawide DRI (1)	Retail Office Industrial Single Family Multifamily Hotel	1,980	4,021
FEC Park of Commerce DRI (2)	Warehouse Office Retail Hotel	689	1,276
Country Lakes West DRI (3)	Trips Retail Light Industrial Office Hotel Single Family Multifamily	814	2,318
Blue Grass Lakes (4)	Single Family Retail	528	475
Dunwoody Estates (5)	Residential/Commercial	417	205
Graham Vested Development East (5)	Mixed Use	753	371
Graham Vested Development West (5)	Mixed Use	1,761	867
Doral Place (6)	Residential	373	188
Islands of Doral (6)	Residential	988	486

^{*}PM Peak Hour trip generation for the approved unbuilt portion of the development.

⁽¹⁾ October 16, 2006 Annual Report. The largest portion of this site is located north of Miramar Parkway (outside the study area). Only 1/2 of the trip generation of the remaining development was used for this analysis (2) October 4, 2006 Annual Report.

⁽³⁾ November 1, 2005 Annual Report.

⁽⁴⁾ The originally approved Blue Grass Lakes DRI was abandoned and an amended Development Order dated 11/7/01 amended the uses to those reflected in this table.

⁽⁵⁾ Town of Miami Lakes, January 2006, Concurrency Management Report,

⁽⁶⁾ City of Doral Website.

				TABLE 21-6 (R)	6(R)						
	Futui	Future Traffic Conditions without Project - (weekday, one-way, PM peak)	ns wit	hout Proje	ct - (weel	ıday, one-wa	y, PM	peak)			
			Be	Beacon Countyline DRI	yline DRI						
Roadway	From	nits To	Directi	Directional #	Roadway Type	Municipality	LOS	Volume (2018)	Service Volume	AS/A	Meets LOS STD?
Palmetto Expressway	Red Road/NW 57 Av	NW 67 Av/Ludlam Rd	EB RA	3.0	FIHS	Miami Lakes	D	8,172	5,410	1.51	0 2
(20.05)	NW 67 Av/Ludlam Rd	Miami Lakes Drive	S EB	9 9 9	FIHS	Miami Lakes	O	8,852	5,410	1.64	2 2 2
	Miami Lakes Drive	1-75	SWB BB	3 8	FIHS	Miami Lakes	O	9,074	5,410	1.68	22:
	I-75	W 68 St/NW 122 Street	8 g	8 4 D D	FIHS	Hialeah	D	7,103	5,410 7,380	1.31	22
	W 68 St/NW 122 Street	W 49 Street/NW 103 St	g g	4 4 0 0	FIHS	Hialeah	0	8,379	7,380	1.14	22
	W 49 Street/NW 103 St	Okeechobee Rd/US 27	R S	4 LD 5 LD	FIHS	Hialeah/Hialeah	O	8,686 11,274	7,380 9,340	1.18	0 0 2 2
	Okeechobee Rd/US 27	NW 74 Street	g g	5 LD	FIHS	Medley	O	8,971 11,782	9,340 9,340	0.96 1.26	S o
NW 87 Avenue / West	Miami Gardens Drive	NW 170 Street	8 8	5 LD 2 LD (1)	Collector	Miami-Dade	O	9,458 483	9,340 1,620	1.01	No Yes
28 Avenue	NW 170 Street	Miami Lakes Drive	8 8	2LD (1) 2LD (1)	Collector	Miami Lakes	O	759 53	1,620 1,620	0.47	Yes
	Miami Lakes Drive	92-1	8 g	2LD (1)	Collector	Miami Lakes	D	108	1,620	0.07	Yes
1-75	Miramar Parkway	HEFT	8 g	2 P	SHR	Miramar		905	1,620	0.56	Yes
2		- 6	8 8	3 9 9	2 9	3 .	، د	9,397	7,480	1.26	2 2 :
	HEFT	NW 186 Street	8 8 8	4 4 G G	SHR	Miami-Dade	٥	9,098 8,439	7,380	1.23	22
	NW 186 Street	NW 138 Street	9 9 9	1 4 4	FIHS	Miami	D	8,839	7,380	1.20	2 2 2
	NW 138 Street	SR 826	8 8 9	9 9 9	FIHS	Miami	O	6,894	NA (3)	NA (3)	Yes (3)
NW 97 Avenue	NW 170 Street	NW 154 Street	a a	2LD (2)	A	Hialeah	D	89 89	1,620	0.05	res (3) Yes
	NW 154 Street	NW 138 Street	g g	2LD (2) 2LD (1)	Ν	Hialeah	D	106 89	1,620 1,620	0.07	Yes
	NW 138 Street	W 68 Street	8 g	2LD (1) 1 L	Collector	Hialeah/Hialeah	O	106 259	1,620 760	0.07	yes Yes
NW 107 Avenue	NW 166 Street	NW 162 Street	8 g	1 L 1 L (2)	Collector	Hialeah/Hialeah	D	157 0	760 760	0.21	xes Xes
	NW 162 Street	NW 154 Street	g g	1 L (2)	Collector	Hialeah/Hialeah	O	00	760 760	0.00	Yes
	NW 154 Street	NW 138 Street	8 g	1 L (2)	Collector	Hialeah/Hialeah	D	0	760	0.00	Yes
	NW 138 Street	Okeechobee Rd/US 27	8 g	1L(2)	Collector	Gardens Hialeah Gardens		121	760	0.16	Yes
19	NW 57 Av (Red Road)	1-75	88 8	2 LD (1)	и Н	Miramar		348	1,620	0.21	Yes
-	מאו מי	2	S &	2.0	2=-	2	2	3,475	3,580	0.97	Yes
	I-75	NW 170 Street	8 g	3.0	FIHS	Miami-Dade	٥	8,393	5,530	1.52	22
	NW 170 Street	Okeechobee Rd/US 27	888	9 9 9	FIHS	Miami-	D	8,387	5,530	1.52	2 2 :
	Okeechobee Rd/US 27	NW 106 Street	9 g	3 %	FIHS	Dade/Hialean Miami-	O	6,014 9,054	5,530 5,530	1.09	22
	NW 106 Street	NW 74 Street	8 g	3 0	FIES	Dade/Medley Miami-Dade	D	6,486	5,530	1.17	22
			SB	3.0	2		'n	7,100	5,530	1.28	2 S
Notes: (1) Committed Roadway Improvement	y Improvement.	(2) Project related Improvement.	ement.	<u> </u>	(3) See HCS+	See HCS+ analysis provided in Appendix 21-3.	ı Appendi	×21-3.			
Revised July 2008								Source:	Source: David Plummer and Associates, Inc.	ner and Ass	ociates, Inc.

		(1) [F (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	TABLE 21-6 (R	1-6 (R)			1 3			
	rutur	ruture Tranic Conditions without Froject - (Weekday, One-way, FM peak) Beacon Countyline DRI	ns without Project - (we Beacon Countyline DRI	ject - (weer ntyline DRI	tday, one-wa	ly, FIMI	леак)			
Roadway	Lin From	Limits To	Directi Directional #	Roadway	Municipality	LOS	Volume (2018)	Service Volume	AS/A	Meets LOS STD?
Miami Gardens Drive	1-75	NW 87 Avenue	EB 2LD	S	Miami-Dade	SUMA	2,545	1,800	1.41	e s
(NW 186 Street)	NW 87 Avenue	NW 77 Avenue	WB 2LD	Artenal State Minor	Miami-Dade	SUMA	1,540	1,800	0.80	, Yes
	NW 77 Avenue	NW 67 Avenue		Arterial State Minor	Miami-Dade	SUMA	926 2,159	1,800	0.51 1.20	Yes No
	NW 67 Avenue	NW 57 Avenue (Red Rd)		Arterial State Minor	Miami-Dade	፟	1,707	1,800	0.95	Yes
	anilase to san	(ny pay) aniiae (na na)		Arterial	Miaiii-Dade	1	1,556	1,800	0.86	Yes
NW 170 Street	HEFT	NW 97 Avenue		Collector	Miami- Dade/Hialeah	۵	315	1,620	0.19	Yes
	NW 97 Avenue	1-75		Collector	Miami-	٥	212	798	0.27	Xes X
	1-75	NW 87 Avenue		Collector	Miami-	٥	267	760	0.35	Xes X
	NW 87 Avenue	NW 77 Avenue	WB 1L 1L	Collector	Miami-	۵	228 621	760	0.30	Yes
	NW 77 Avenue	NW 67 Avenue		Collector	Miami-	٥	554 450	760	0.73	Yes
NW 138 Street	Okeechobee Rd/US 27	NW 107 Avenue		Collector	Hialeah/Hialeah	٥	469 633	760 1.620	0.62	Yes
	NW 107 Avenue	NW 97 Avenue	WB 2LD EB 2LD (1)	Collector	Hialeah/Hialeah	۵	452	1,620	0.28	Yes
		(-		:		ı	422	1,620	0.26	Yes
	NW 97 Avenue	Hialleah Gardens Drive		Collector	Hialean	۵	690	1,620 1,620	0.45 0.43	Yes
NW 130 Street	NW 97 Av	Hialieah Gardens Drive	EB 1L	County Minor	Hialeah	۵	394	760	0.52	Yes
(2000)	Hialieah Gardens Drive	NW 87 Av	EB 1.	County Minor	Hialeah	۵	584	760	0.7	Yes
	NW 87 Av	W of SR 826		Artenal County Minor	Hialeah	ပ	425 100 100 100	760	0.56	xes Xes
Okeechobee Rd/US 27	West	HEFT		SHIS	Hialeah Gardens	ပ	503 1,393	2,500	0.56	Yes
	HEFT	NW 138 Street		FIHS	Hialeah/Hialeah	٥	1,169	2,500	0.47	Yes
	NW 138 Street	Hialipah Gardens Drive	SEB 3LD	SH H	Gardens Hialeah Gardens	_	1,209	2,790	0.43	Yes
		Calcal		2		2	1,110	2,790	0.40	Yes
	Hialieah Gardens Drive	NW 87 Avenue		SHE	Hialeah Gardens	۵	2,241	2,790	0.80	Yes
	NW 87 Avenue	SR 826		SHIS	Hialeah Gardens	٥	2,449	2,790	0.88	Yes
	SR 826	NW 74 St	NWB 3LD	State Principal	Hialeah	E + 20%	3,133	3,348	0.94	Xes X
West Okeechobee Rd /	US 27/NW 138 Street	NW 107 Avenue		Collector	Hialeah Gardens	٥	396	760	0.52	Yes
Frontage Road	NW 107 Avenue	Hialeah Gardens Blvd		Collector	Hialeah Gardens	٥	531 489	760	0.70	Yes
	Hialeah Gardens Blvd	NW 87 Avenue		Collector	Hialeah Gardens	٥	245 272	760	0.32 0.36	Yes
	NIM 07 AUGUS	Oligon 77 MIN		rotocilo	Lion Cordon		291	760	0.38	Yes
	anian Vo	anii anii anii anii anii anii anii anii		Ociecio	nialean Galuens	ב	349	760	0.46	Xes (
Gratigny Expressway	SR 826	Red Road/W 4 Av	WB 3LD	SHIS	Hialeah/Miami	۵	3,287	5,410	0.61	Yes
W 68 Street/NW 122	Okeechobee Road	NW 97 Avenue		Collector	Hialeah Gardens	۵	327	608 809	2.0	Xes X
	NW 97 Avenue	NW 87 Av / W 28 Av		County Minor	Hialeah	۵	566	809	0.93	Yes
	NW 87 Av / W 28 Av	SR 826	EB 2LD WB 2LD	County Minor Arterial	Hialeah	۵	1,385	1,620 1,620	0.86	X es
Notes: (1) Committed Roadway Improvement. (2) Project related Improvement.	Improvement. vement.	(2) Project related Improvement	ment.	(3) See HCS+	(3) See HCS+ analysis provided in Appendix 21-3.	n Appendi	(21-3.			
(3) See HCS+ analysis provided in Appendix 21 Revised July 2008	provided in Appendix 21-						Source:	Source: David Plummer and Associates, Inc	er and Ass	ociates, Inc.

E. Assign the trips generated by this development as shown in (B) and (C) above and show, on separate maps or tables for each phase-end year, the DRI traffic on each link of the then-existing network within the study area. Include peak-hour directional trips. If location data is available, compare average trip lengths by purpose for the project and local jurisdiction. For the year of buildout and at the end of each phase estimate the percent impact, in terms of peak hour directional DRI trips/total peak hour directional trips and in terms of peak hour directional DRI trips/existing peak hour service volume for desired LOS, on each regionally significant roadway in the study area. Identify facility type, number of lanes, and projected signal locations for the regionally significant roads.

The trip distribution and traffic assignment for the Project is based on a select-zone run using the Modified MPO's Adopted Long Range Transportation Plan FSUTMS model for Miami-Dade County with adjustments made by the Turnpike Enterprise for validation purposes. The Turnpike Enterprise has performed extensive up-to-date validation of the Miami Dade approved transportation model to accurately reflect existing volumes on this facility as well as on the surface streets in this area. This model extends HEFT into Broward County within the study area. Model outputs have been provided in **Appendix 21-11 (R) – Model Outputs**.

The Site is in Miami-Dade County's Traffic Analysis Zone (TAZ) 7. The socio-economic data for TAZ 7 was adjusted to reflect Project traffic. Additionally, the subject data was interpolated to reflect the Project's buildout year (2018). The model's roadway network was also reviewed to verify that only committed roadway improvements were included.

The Project traffic assignment was obtained by tracking daily Project traffic via a select-zone analysis and converting it into a Project trip percent distribution. ITE pm peak hour trip generation was applied to the trip distribution to obtain the pm peak hour Project assignment. Assigned pm peak hour Project trips reflect at least 99 percent of the net new external trips obtained from the adjusted trip generation as described in sections above.

For Project traffic traveling north on I-75 into Broward County, a ratio was taken between existing mainline traffic volume and the volume on the off ramps. This percentage was applied to Project traffic traveling on the I-75 the mainline north of the HEFT junction to determine how much Project traffic will leave and/or enter I-75 at the Miramar Parkway interchange in Broward County. This analysis is provided in **Appendix 21-12 (R) – Broward County Project Trip Assignment**.

The distribution of Project traffic on the regionally significant roadways analyzed in this study is shown in **Table 21-7 (R)** – **Project Traffic Assignment**. As requested, the percent impact was calculated as a percentage of total DRI traffic and as a percentage of existing service volumes. In addition, Project traffic on all the regionally significant roadways in the study area is provided in **Appendix 21-13 (R)** – **Project Consumption Calculations**. The purpose of this data is to show the level of significance Project traffic represents on all the regionally significant roadways in the study area.

			TABLI	TABLE 21-7 (R	(1						
		Project Traffic Assignment (weekday, one-way, PM peak)	signmen	t (weekda	ay, one-wa	ay, PM	peak)				
			Beacon C	Beacon Countyline DRI	DRI						
C	Lin	Limits	Directi Dir	Directional #	Roadway	SOT	Service	ž	et New Exte	Net New External Project Traffic	Traffic
коацмау	From	To	o	of Lanes	Туре	STD	Volume	Project Traffic	% Project	% Co One-Way	nsumption Two-Way
Palmetto Expressway	Red Road/NW 57 Av	NW 67 Av/Ludlam Rd	EB	3LD	FIHS	D	5,410	157	8:02%	2.9%	2.1%
(020 VS)	NW 67 Av/Ludlam Rd	Miami Lakes Drive	NEB	300	FIHS	٥	5,410	95	5.30%	1.7%	1.2%
	Miami Lakes Drive	1-75	NB B	3 2 2	FIHS	۵	5,410	92	7.34%	1.7%	1.7%
	1-75	W 68 St/NW 122 Street	8 8 8	3 P	FIHS	٥	5,410	92 123	15.87%	1.7%	2.7%
	W 68 St/NW 122 Street	W 49 Street/NW 103 St	8 8 8 8 8 8	3 4 5	FIHS	Q	7,380	103	13.24%	3.7% 1.4%	2.2%
	W 49 Street/NW 103 St	Okeechobee Rd/US 27	a a a	2 2 2	FIHS	۵	9,380	86 23	11.04%	3.1% 0.9%	1.5%
	Okeechobee Rd/US 27	NW 74 Street	a B d	200	FIHS	٥	9,340	92	11.84%	1.0%	1.6%
NW 87 Avenue / West	Miami Gardens Drive	NW 170 Street	8 8 8 8 8 8	2LD	Collector	Q	9,340	205 72	4.15%	2.2% 4.4%	3.2%
zs Avenue	NW 170 Street	Miami Lakes Drive	n B c	2LD	Collector	٥	1,620	32 0 9	0.00%	2.0% 0.0%	0.0%
	Miami Lakes Drive	1-75	2 Z C	2LD 2 LD	Collector	٥	1,620	1 M C	0.40%	0.0%	0.3%
1-75	Miramar Parkway	HEFT	S S	7 4 Z	FIHS	٥	1,620 7,480	329	19.02%	0.4% 4.4%	3.2%
	HEFT	NW 186 Street	a a	4 4 0 0	FIHS	٥	7,480	0 48	0.00%	2.0%	%0.0
	NW 186 Street	NW 138 Street	N S S	4 P	FIHS	٥	7,380	0 %	0.36%	%0.0 0.0%	0.1%
	NW 138 Street	SR 826	B B	Q 7 4 5	FIHS	۵	7,380 NA (1)	6 775	44.78%	0.1% (1)	(£)
NW 97 Avenue	NW 170 Street	NW 154 Street	m m S Z	2LD	Ą	۵	1,620	348 224	21.73%	(1) 13.8%	16.8%
	NW 154 Street	NW 138 Street	a a i	2LD	Ą	۵	1,620	321 404	51.95%	19.8%	40.2%
	NW 138 Street	W 68 Street	n a c	2LD 1 L	Collector	٥	760	13	1.71%	55.5% 1.7%	2.8%
NW 107 Avenue	NW 166 Street	NW 162 Street	N N N	77:	Collector	۵	760	30 52 13	10.17%	3.9% 10.4%	16.8%
	NW 162 Street	NW 154 Street	M M C	77;	Collector	٥	760	176 236	30.42%	31.1%	50.2%
	NW 154 Street	NW 138 Street	a a a	7 7 -	Collector	٥	097	527 236 537	30.42%	69.3% 31.1%	50.2%
	NW 138 Street	Okeechobee Rd/US 27	0 8 c	2.D	Collector	۵	1,620	181 181	23.33%	11.2%	18.1%
HEFT	NW 57 Av (Red Road)	1-75	N R	2 CD 2	FIHS	۵	3,580	137	7.89%	3.8%	2.8%
	1-75	NW 170 Street	a a a	350	FIHS	٥	3,580	61 466 200	26.91%	1.7% 8.4%	6.1%
	NW 170 Street	Okeechobee Rd/US 27	0 B 0		FIHS	۵	5,530	5 1 5	18.50%	2.6%	4.2%
	Okeechobee Rd/US 27	NW 106 Street	9 8 8		FIHS	۵	5,530	2 4 6	18.50%	2.6%	4.2%
	NW 106 Street	NW 74 Street	9 8 8 8 8 8		FIHS	٥	5,530	35 14 320	18.50%	2.6% 5.8%	4.2%
Notes:	(1) See HCS+ analysis provided in Appendix 21-3	ded in Appendix 21-3.	3	3				0			-
Revised July 2008								Sour	ce: David P	lummer and	Source: David Plummer and Associates, Inc.

Table 21-8 (R) – Future Traffic Conditions with Project shows total traffic on the regionally significant roadways with the Project. Intersection Capacity Analyses for total traffic conditions are provided in **Appendix 21-3 (R) – HCS Analysis**. The results are summarized in **Table 21-9 (R) – Intersection and Ramp Analysis Results**.

In preparation for development order conditions, it is necessary to establish how much Project development can be supported before the interchange is needed at the HEFT/NW 170 Street. A sensitivity analysis was prepared and is included in **Appendix 21-14 (R) – Sensitivity Analysis**. This sensitivity analysis was done to determine how much Project development can be supported by the existing and committed surface street network prior to the need for the interchange.

Table 21-7 (R) – Project Traffic Assignment shows that at Projects buildout with the proposed interchange, 2,048 two-way pm peak hour project trips will use NW 107 Avenue and NW 97 Avenue south of NW 154 Street. A reduced development program was then established that would not exceed this limit. The transportation model was run to reflect this reduced program. The roadway network was adjusted to reflect conditions without the interchange. In addition, the Applicant has agreed not to fund the construction of the extension of NW 170 Street east of NW 97 Avenue until the interchange is completed. This section of roadway was also not included in the model run. Model runs for this scenario are **Appendix 21-14 (R) – Sensitivity Analysis**. Based on this modeling effort, a Project distribution was obtained.

Roadway analysis of future traffic conditions for this scenario of the regionally significant roadways in the study was performed and included in this Appendix. Project volumes for this reduced development program accessing NW 107 Avenue and NW 97 Avenue south of NW 154 Street are highlighted and do not exceed 2,048 two-way pm peak hour project trips. **Appendix 21-14 (R) – Sensitivity Analysis** provides a more detailed description of the sensitivity analysis.

The analysis, which is also included in this Appendix, shows similar or lower impacts on all the regionally significant roadways than at buildout. Project traffic is not significant and adverse in any roadway link analyzed.

Property	Feature Feat					TABI	TABLE 21-8 (R	<u> </u>						
Red RoadNW 57 AV NW 67 AVLudam Ram Lakes Drive Topical December Ram Lakes Drive Ram Lakes Drive Topical December Ram Lakes Drive Ram Lakes Drive Topical December Ram Lakes	Prop. Inches Prop. Pro			Future Traffic (Sondit	ions with F	roject - (v	veekday, on	e-way,	РМ ре	ak)			
Figure Chiefs Figure Chiefs Figure F	From Lines Direct Directions Roades Water place Collector Free place Municipality Collector Free place Free place Municipality Collector Free place Fr					Beacon	Countyline	DRI						
Red RoadsWW 57 An WW 67 And Luddem Rd RED 51D FHS Manni Lakes 6.229 D 5-470 1.54 No NW 67 And Luddem Rd MBerni Lakes Drive MRED 3.1D FHS Manni Lakes 7.186 D 5-470 1.58 No 1-75 W 68 SNWW 122 Street W 66 SWW 122 Street MBerni Lakes Drive MBern Lakes 1.167 D 5-470 1.58 No W 68 SNWW 122 Street W 66 SWW 122 Street MBern Lakes Drive MBern Lakes 1.107 D 5-470 1.58 No W 49 Street/NW 102 Street W 66 SWW 122 Street NW 170 Street MBern Lakes 1.107 D 5-470 1.58 No Mamil Lakes Drive MBern Lakes B 5 LD FHS Helberh 1.107 D 5-400 1.24 No Marmi Lakes Drive MW 170 Street MBern Lakes B 12D Collector Marmi Lakes 1.107 D 1.147 No Marmi Lakes Drive MBern Lakes B 12D Collector <th>Red FloateNW F7 AN INW 67 And Luddiem R4 NW 67 And Luddiem R4 6.259 0 5.470 1.54 NN 6.240 1.54 NN 6.24 NN 6.240 1.54 NN 6.240 1.54 NN 6.240 1.54 NN 6.240 1.54 NN 6.24 N</th> <th>Roadway</th> <th></th> <th></th> <th>Directi</th> <th>Directional #</th> <th>Roadway Tvpe</th> <th>Municipality</th> <th>Volume (2018)</th> <th>LOS</th> <th>Service</th> <th>\S/\</th> <th>Meets LOS STD?</th> <th>Project % Consumption</th>	Red FloateNW F7 AN INW 67 And Luddiem R4 NW 67 And Luddiem R4 6.259 0 5.470 1.54 NN 6.240 1.54 NN 6.24 NN 6.240 1.54 NN 6.240 1.54 NN 6.240 1.54 NN 6.240 1.54 NN 6.24 N	Roadway			Directi	Directional #	Roadway Tvpe	Municipality	Volume (2018)	LOS	Service	\S/\	Meets LOS STD?	Project % Consumption
Weig Stavit Lakes Drive Wiffe Nami Lakes Drive Wiffe Nami Lakes Drive NRTHS 3 LD FIHS Mami Lakes Drive NRTH 1.75 NRTH 1.35 NRTH 1.75 NRTH 1.75 NRTH 1.75 NRTH 1.75 NRTH 1.75 NRTH NRTH<	WW 67 AvitLudiam Rd Maint Lakes Drive WB 3 LD FHHS Maint Lakes 6,340 D 5,410 H75 V 68 SnWW 122 Street 1,75 NW 3 LD FHHS Maint Lakes 7,197 D 5,410 H75 V 68 SnWW 122 Street NW 4 LD FHHS Maint Lakes 7,197 D 5,410 W 68 SnWW 122 Street W 68 SnWW 122 Street NW 74 Street NB 4 LD FHHS Halaehh 1,653 D 5,410 Okeechobee RdUS 27 NW 74 Street NB 4 LD FHHS Halaehh 1,653 D 5,410 Mami Lakes Drive NW 75 Street NW 74 Street NB 5 LD Collector Mami Lakes 7,739 D 7,230 Mimi Lakes Drive NW 170 Street	Palmetto Expressway		NW 67 Av/Ludlam Rd	EB	3.0	FIHS	Miami Lakes	8,329	٥	5,410	1.54	9 Z	2.9%
Weis Sinwi 122 Street 175 SWB 3 LD FIHS Mamil Lakes Dive 7195 5 440 1.93 No 1.75 Weis Sinwi 122 Street Nee Sinwi 122 Street Nee Sinwi 122 Street Nee Sinwi 122 Street 1.75 7195 5 440 1.93 No 1.75 Weis Sinwi 122 Street Weis Sinwi 122 Street Nee Sinwi 122 Street	Miami Lakes Drive 1-75 NB 3 LD FHHS Miami Lakes 7,165 D 5,410 1-75 W 68 StNW 122 Street NB 3 LD FHHS Haleach Haleach 7,165 D 5,410 W 68 StNW 122 Street NB 4 LD FHHS Haleach Haleach 1,109 D 7,380 W 49 Street/NW 103 St NB 5 LD FHHS Haleach Haleach 1,109 D 7,380 Okechobee RdUS Z7 NW 74 Street NB 5 LD FHHS Haleach Haleach 7,380 9,44 Miami Cardene Drive NW 170 Street NB 5 LD FHHS Miami Lakes Drive NB 2 LD Collector Miami Lakes Drive 7,380 9,44 7,380 Miami Lakes Drive NB 2 LD Collector Miami Lakes Drive NB 4 LD FHHS Miami Lakes 7,739 D 7,739 Miami Lakes Drive NW 138 Street NW 138 Street NW 138 Street NW 138 Street NW 14D Collector <td< td=""><td>(SK 826)</td><td></td><td>Miami Lakes Drive</td><td>N N</td><td>3 5</td><td>FIHS</td><td>Miami Lakes</td><td>6,765 8,944</td><td>٥</td><td>5,410</td><td>1.65</td><td>22</td><td>1.3%</td></td<>	(SK 826)		Miami Lakes Drive	N N	3 5	FIHS	Miami Lakes	6,765 8,944	٥	5,410	1.65	22	1.3%
1-75 Web Sinviv 122 Street	Weight Street Weight With Street SE 3.1D FIHS Halaeah 7,195 9,54 Weight Weight Street Weight Street Weight Street Weight Street FIHS Halaeah 7,196 9,44 Weight Street Weight Street Weight Street Weight Street NW 74 Street NB 5.D FIHS Halaeah 1,158 9,34 Okeechoee RduUs 27 NW 77 Street NB 5.D FIHS Halaeah 1,158 9,34 Mamil Lakes Drive NW 77 Street Milami Lakes 1,175 NB 2.D Collector Mamil Lakes 1,29 0,34 Minami Lakes Drive NW 77 Street NB 2.D Collector Minami Lakes 1,62 0,34 Minami Lakes Drive NW 186 Street NB 2.D Collector Minami Lakes 1,62 0,34 Minami Lakes Drive NW 186 Street NW 186 Street<		Mismi Lakes Drive	1.75	SWB	3LD	U I	Mismi Lakos	7,197	_	5,410	1.33	22	0.8%
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We 68 SEMBAY 122 Street W 43 Streed/NW 103 Street SB 4 LD FIHS Hisland 11,019 D 7,380 1.49 No Oked-chobes RdUUS Z7 NW 74 Street 120 51 1,40 N 1,49 N 1,49 N N<	We 8 S/NW 122 Street W 49 Street/NW 103 Street SB 4 LD bridge FHS Hisleach 8,515 Bridge 7,380 Bridge 7,480 Bridge 7,4		1-75	W 68 St/NW 122 Street	8 8 8	4 :	FIHS	Hialeah	10,653	۵	7,380	1.44	2 :	1.7%
Wy 43 Street/WV 103 St. Cokeach/bee RdUS Z Name S H LD FFHS Heliear/Halear H 11380 7.380 1.27 No. Okeach/bee RdUS Z Name 5 LD FFHS Heliear/Halear H 11380 9.340 1.27 No. Okeach/bee RdUS Z Name 5 LD Collector Midmit Lakes 5.3 1.67 0.34 1.78 No. Midmit Cardens Drive NW 170 Street SB 2 LD Collector Midmit Lakes 5.3 1.67 0.34 1.78 No. Midmit Lakes Drive NW 170 Street Midmit Lakes 1.67 1.67 0.34 1.78 No. 1.67 0.34 No. 1.67 No. 1.67	W49 Street/NW 103 St C Neechobee Rd/US ZT SB 4 LD FHHS HiadeahYHalean 8 91 5 6 9 340 7 839 Mami Cardens Drive NW 74 Street SB 5 LD FHHS MiadeahYHalean 11 620 9 340 Mami Cardens Drive NW 74 Street NB 2 LD Collector Miami-Dade 555 D 1620 Miami Lakes Drive NW 170 Street NW 170 Street NB 2 LD Collector Miami-Dade 553 D 1620 Miami Lakes Drive HEFT NB 2 LD Collector Miami-Dade 553 D 1620 Miami Lakes Drive HEFT NB 2 LD Collector Miami-Dade 554 D 1620 Miami Lakes Drive NW 186 Street NW 186 Street <t< td=""><td></td><td>W 68 St/NW 122 Street</td><td>W 49 Street/NW 103 St</td><td>8 8 8</td><td>4 4 0 0</td><td>SHE</td><td>Hialeah</td><td>8,654</td><td></td><td>7,380</td><td>1.17</td><td>22</td><td>3.7%</td></t<>		W 68 St/NW 122 Street	W 49 Street/NW 103 St	8 8 8	4 4 0 0	SHE	Hialeah	8,654		7,380	1.17	22	3.7%
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HEFT	HEFT	1-75	Miramar Parkway	HEFT	8 9	4 LD	FIHS	Miramar	10,512	٥	7,480	1.41	<u>8</u> 2	2.2%
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NW 154 Street NW 138 Street SB 2LD Collector Hialeah Hialeah 427 (1,620) 1,620 (0.26) Ves Ves NW 138 Street W 68 Street NB 1.L Collector Hialeah/Hialeah 272 D 760 (0.20) Ves Yes NW 165 Street W 68 Street NB 1.L Collector Hialeah/Hialeah 272 D 760 (0.20) Yes Yes NW 165 Street NW 162 Street NB 1.L Collector Hialeah/Hialeah 272 D 760 (0.20) Yes Yes Nes Nes Nes 1.L Collector Hialeah/Hialeah 236 (0.20) 760 (0.20) 0.01 Yes Yes Nes Nes 1.L Collector Hialeah/Hialeah 236 (0.20) 760 (0.20) 0.01 Yes Nes Nes 1.L Collector Hialeah/Hialeah 236 (0.20) 0.01 Yes Nes Nes 1.E Nes 1.E Nes Nes 1.E Nes 1.E <	NW 154 Street NW 138 Street NB 2LD Collector Hialeah Hialeah 427 1,620 NW 138 Street W 68 Street NB 1L Collector Hialeah/Hialeah 272 D 760 NW 165 Street NW 162 Street NB 1L Collector Hialeah/Hialeah 773 D 760 NW 162 Street NW 164 Street NW 165 Street NB 1L Collector Hialeah/Hialeah 236 D 760 NW 164 Street NW 164 Street NW 138 Street NB 1L Collector Hialeah/Hialeah 236 D 760 NW 164 Street NW 178 Street NW 138 Street NB 1L Collector Hialeah/Hialeah 236 D 760 NW 164 Street NW 178 Street NW 178 Street NB 2 LD Collector Hialeah/Hialeah 236 D 760 NW 170 Street NW 170 Street NB 2 LD FIHS Miami-Dade 8,839 D 1,620	NW 97 Avenue	NW 170 Street	NW 154 Street	n g	21D	Collector	Hialeah	313		1,620	0.19	res (1) Yes	3.2%
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NW 138 Street W 68 Street SB	NW 138 Street W 68 Street NM 122 Str		NW 154 Street	NW 138 Street	8	2LD	Collector	Hialeah	493	٥	1,620	0.30	Yes	13.8%
NW 15G Street NW 16G Street NW 15G S	NW 166 Street NW 162 Street NB 1 L Collector Hialeah/Hialeah 79 760 760 NW 166 Street NW 164 Street NW 154 Street NW 155 NW 154 Street NW 154 Street NW 154 Street NW 155 NW 154 Street NW 155 NW 15		NIM 130 Ctroot	W 60 Ctroot	S S	2LD	rotocilo	4000017/4000017	1,005	c	1,620	0.62	Yes	19.8%
NW 166 Street NW 166 S	NW 166 Street NW 162 Street NB 1 L Collector Hialeah/Hialeah 79 D 760 NW 162 Street NW 154 Street NW 138 Street NW 124 Street NW 138 Street NW 125 Street<				SB	1 7			187)	760	0.25	Yes	55.5%
NW 154 Street	NW 162 Street NW 154 Street SB 1 L Collector Hialeah/Hialeah 236 D 760 NW 154 Street NW 138 Street NB 1 L Collector Hialeah/Hialeah 360 D 760 NW 138 Street Okeechobee Rd/US 27 NB 2 LD Collector Hialeah/Hialeah 648 760 D 760 NW 138 Street Okeechobee Rd/US 27 NB 2 LD FIHS Mirami-Dade 648 760 D 760<	NW 107 Avenue	NW 166 Street	NW 162 Street	g	11	Collector	Hialeah/Hialeah	62	۵	260	0.10	Yes	1.7%
NW 138 Street	NW 154 Street NW 138 Street NB 1L Collector Hialeah/Hialeah 360 D 760 NW 138 Street NW 138 Street NW 138 Street NW 138 Street NB 1L Collector Hialeah/Hialeah 360 D 760 NW 138 Street Okeechobee Rd/US 27 NB 2 LD FIHS Mirami-Dade 652 D 1,620 NW 170 Street NB 3 LD FIHS Mirami-Dade 8,534 D 3,580 NW 170 Street Okeechobee Rd/US 27 NB 3 LD FIHS Mirami-Dade 8,534 D 5,530 NW 106 Street NW 74 Street NB 3 LD FIHS Mirami-Dade 6,334 5,530 NW 106 Street NW 74 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530 NM 106 Street NB 3 LD FIHS NB 100 NM 100 Street NB 3 LD FIHS NB 100 NM 100		NIM 162 Street	NIW 454 Stroot	S S	7 -	rotoglo	History/History	176 236	c	760	0.23	Yes	3.9%
NW 138 Street NB	NW 154 Street NW 138 Street NB 1 L Collector Hialeah VHialeah 360 D 760 NW 138 Street Okeechobee Rd/US 27 Street SB 1 LD Collector Hialeah Gardens 648 760 D 760 NW 57 Av (Red Road) 1-75 NB 2 LD FIHS Mirami-Dade 4,854 D 3,580 1-75 NW 170 Street NB 3 LD FIHS Mirami-Dade 8,859 D 3,580 NW 170 Street NW 106 Street NB 3 LD FIHS Mirami-Dade 9,198 D 5,530 NW 106 Street NW 74 Street NB 3 LD FIHS Mirami-Dade 9,198 D 5,530 Sp provided in Appendix 21- NW 74 Street NB 3 LD FIHS Mirami-Dade 9,809 D 5,530		195 701 444	19910 +01 441	SB			וומופמו זו וומופמו	527	2	2092	0.69	Xes	23.2%
Okeechobee Rd/US 27 NB 2 LD	NW 138 Street Okeechobee Rd/US 27 SB 1L Sanderon Collector Hialeah Gardens 648 F52 D F52		NW 154 Street	NW 138 Street	RB	11		Hialeah/Hialeah		۵	290	0.47	Yes	31.1%
ad) 1-75 NB 2 LD Collector Hialean Gardens 652 D 1,620 0.46 Yes and 1-75 NB 2 LD FIHS Miramar 4,854 D 3,580 1.36 No Yes NW 170 Street NB 3 LD FIHS Mirami-Dade 8,859 D 5,530 1.14 No Okeechobee Rd/US 27 NW 106 Street NB 3 LD FIHS Mirami-Dade 6,334 5,530 1.15 No	NW 57 Av (Red Road)			-	SB	1-3		Gardens		ú	760	0.85	Yes	69.3%
ad) I-75 NB 2 LD FIHS Miramar 4,854 D 3,580 1.36 No	NW 57 Av (Red Road)		NW 138 Street	Okeechobee Kd/US Z/	9 g	2.5	_	Hialean Gardens		ם	1,620	0.40	Yes	31.1%
SB 2 LD	1-75 NW 170 Street Street NW 170 Street	HEFT	NW 57 Av (Red Road)	1-75	8 8	2 5	SHIR	Miramar	4.854		3.580	1.36	2	11.2%
NW 170 Street NB 3 LD FIHS Miami-Dade 8,859 D 5,530 1.60 No	1-75 NW 170 Street NB 3 LD FIHS Miami-Dade 8,859 D 5,530				SB	2 LD			3,536		3,580	0.99	Yes	24.9%
Okeechobee Rd/US 27 NB 3 LD FIHS Miami- Dade/Medley 6,834 5,530 1.14 No 27 NW 106 Street NB 3 LD FIHS Miami- Dade/Medley 6,806 5,530 1.15 No NW 74 Street NB 3 LD FIHS Miami-Dade 9,809 D 5,530 1.23 No NW 74 Street NB 3 LD FIHS Miami-Dade 9,809 D 5,530 1.77 No	NW 170 Street Okeechobee Rd/US 27 NB 3LD FIHS Miami- 8,534 5,530 5,530 Ckeechobee Rd/US 27 NW 106 Street NW 74 Street NW 74 Street Sprowided in Appendix 21-		1-75	NW 170 Street	8	3 LD	FIHS	Miami-Dade	8,859	۵	5,530	1.60	2:	3.8%
Okeechobee Kd/US 27 NB 3 LD	NW 170 Street Okeechobee Rd/US 27				SB	3.0	i		6,282		5,530	1.14	2∶	1.7%
27 NW 106 Street NB 3 LD FIHS Miami-Dade (6,806 D 5,530 1.77 No No 74 Street NB 3 LD FIHS Miami-Dade (5,809 D 5,530 1.77 No 5,53	Okeechobee Rd/US 27 NW 106 Street NB 3 LD FIHS Miami-Dade 9,198 D 5,530 NW 106 Street NW 74 Street NB 3 LD FIHS Miami-Dade 9,809 D 5,530 siss provided in Appendix 21- SB 3 LD FIHS Miami-Dade 9,809 D 5,530		NW 170 Street	Okeechobee Rd/US 27	8 g	3 9	SHR	Miami- Dada/Hislosh	8,531	Δ	5,530	1.54	2 2	8.4% 3.8%
SB 3LD Dade/Medley 6,806 5,530 1.23 No NW 74 Street NB 3LD FIHS Miami-Dade 9,809 D 5,530 1.77 No S5,530 1.34 No	NW 106 Street NW 74 Street NW 74 Street SB 3 LD FIHS Miami-Dade 9,809 D 5,530		Okeechobee Rd/US 27	NW 106 Street	8 8	3 6	SHIR	Miami-	9,198		5.530	1.66	2 2	2.6%
NW 74 Street NB 3 LD FIHS Miami-Dade 9,809 D 5,530 1.77 No 34	NW 106 Street NW 74 Street NB 3 LD FIHS Miami-Dade 9,809 D 5,530 Siss provided in Appendix 21- SB 3 LD T,420 5,530				SB	3 LD		Dade/Medley	908'9		5,530	1.23	Š	2.8%
24 SB 3LD 7.420 5.530 1.34 No	SB 3 LD 7,420 5,530 5,530 5,530 5,530 5,530 1,530		NW 106 Street	NW 74 Street	g l	3 LD	FIHS	Miami-Dade	608'6	۵	5,530	1.77	2:	2.6%
	/sis provided in Appendix Z1-				SB	3 LD			7,420		5,530	1.34	oN	2.8%

		TABLE 21-8 (R) Future Traffic Conditions with Project - (weekday, one-way, PM peak) Reacon Countriline DRI	Condit	TAB ions with	S with Project - (week Beacon Countvline DRI	veekday, one	e-way,	PM pea	€			
		Limits	Directi	Directional #	Roadway		Volume	FOS	Service	, 6	Meets	
Koadway	From	To	on	of Lanes	Type	Municipality	(2018)	STD	Volume	V/SV	LOS STD?	
Miami Gardens Drive	1-75	NW 87 Avenue	8	2 LD	State Minor	Miami-Dade	2,545	SUMA	1,800	1.41	2	3.0%
(NW 186 Street)	AWW 87 Avenue	AlmovA 77 WW	W W	2 LD	Arterial State Minor	Miami-Dade	1,088	ΔMI (C	1,800	0.60	Yes	1.5%
			WB	2 5	Arterial	Niaiii-Dage	941		1,800	0.52	Yes	0:0%
	NW 77 Avenue	NW 67 Avenue	EB	2 LD	State Minor	Miami-Dade	2,204	SUMA	1,800	1.22	oN	1.9%
	NIM 67 Avosiio	VIV E7 Avono (Bod ba)	MB □	2 5	Arterial	Miomi Dodo	1,727	5	1,800	0.96	Yes	0.8%
	DO AVAI	INV 37 Avenue (Neu Nu)	WB W	2 2	Arterial	Wialli-Dade	1.568	Ë	000,	0.87	Yes	1.1%
NW 170 Street	HEFT	NW 97 Avenue	EB	2LD	Collector	Miami-	701	۵	1,620	0.43	Yes	1.5%
		-	8 K	2LD	=	Dade/Hialeah	1,051	ú	1,620	0.65	Yes	0.7%
	NW 97 Avenue	9/-	ΑΝ RB	7 -	Collector	Miami-	273	۵	798	0.0 4.5	Yes	23.8%
	1-75	NW 87 Avenue	EB C	1 -	Collector	Miami-	563	٥	760	0.74		37.1%
			ΜB	1.	:		361	(760	0.48		16.7%
	NW 87 Avenue	NW 77 Avenue	MB WB	7	Collector	Miami-	624	۵	760	1.02	No Y By	38.9%
	NW 77 Avenue	NW 67 Avenue	EB	1.L	Collector	Miami-	579	۵	292	0.76		20.7%
4000	0.000	AUM 407 A	8 €	1 L	-	400101104001011	527	۵	760	0.69	Yes	9.2%
190 OSI MNI	Okeechobee Ra/US Z/	INVV 107 Avenue	a ⊗ ⊗	ZLD 2LD	Collector	павалипавал	532	۵	1,620	0.4		0.1%
	NW 107 Avenue	NW 97 Avenue	EB	2LD	Collector	Hialeah/Hialeah	632	۵	1,620	0.39		2.2%
		(ΝŘ	2LD	=	41.41.41	439		1,620	0.27		4.9%
	NW 97 Avenue	Hiallean Gardens Drive	Α W B	2LD	Collector	Hialean	1,543	ם	1,620	0.95	Yes	7.2%
NW 130 Street	NW 97 Av	Hialieah Gardens Drive	EB	11	County Minor	History	470	۵	760	0.62		4.6%
(W 76 Street)			ΜB	11:	Arterial		601		760	0.79		2.1%
	Hialieah Gardens Drive	NW 87 Av	A N	7-	County Minor	Hialeah	648	۵	760	0.85		10.0% 4 5%
	NW 87 Av	W of SR 826	N B		County Minor	Hialeah	439	O	760	0.58	Yes	8.4%
			WB	1 L	Arterial		509		260	0.67		3.8%
Okeechobee Rd/US 27	West	HEFT	WB L	2 LD	FIHS	Hialeah Gardens	1,418	O	2,500	0.57		1.8%
	HEFT	NW 138 Street	M M	3 6	FIHS	Hialeah/Hialeah	1,391	٥	2,500	0.50	Yes	1.0%
			SEB	3 LD	!	Gardens	1,265	ı	2,790	0.45		2.2%
	NW 138 Street	Hialieah Gardens Drive	NWB	3.0	FIHS	Hialeah Gardens	1,533	۵	2,790	0.55	Yes	%6:0
	Hialieah Gardens Drive	NW 87 Avenue	NWB	3 2	FIHS	Hialeah Gardens	1,208	٥	2,790	0.43		2.0%
			SEB	3 LD			2,074		2,790	0.74		3.5%
	NW 87 Avenue	SR 826	NW B	3.0	FIHS	Hialeah Gardens	2,581	۵	2,790	0.92		6.2%
	SR 826	NW 74 St	SEB NWB	3 2	State Principal	Hialeah	3.197	E + 20%	3,348	08.0	Yes	2.8% 4.7%
			SEB	3 LD	Arterial		2,268		3,348	0.68		2.1%
West Okeechobee Rd /	US 27/NW 138 Street	NW 107 Avenue	NWB	1.	Collector	Hialeah Gardens	396	۵	760	0.52		1.9%
Frontage Koad	All Avenue	Hislash Gardens Rlvd	SEB NAR	7 -	Collector	Hialeah Gardens	531 518	_	760	0.70		%6.0 0.0%
			SEB	1-			258)	760	0.34		%0:0
	Hialeah Gardens Blvd	NW 87 Avenue	NWB	1 L	Collector	Hialeah Gardens	303	۵	260	0.40		3.8%
			SEB	7;	:	-	305	(760	0.40		1.7%
	NW 87 Avenue	NW 77 Avenue	NW B	7-	Collector	Hialeah Gardens	782	۵	760	1.03	o S	4.1%
Gratigny Expressway	SR 826	Red Road/W 4 Av	B	3.LD	FIHS	Hialeah/Miami	3,662	۵	5,410	0.68		2.1%
			WB	3 LD		Lakes			5,410	0.58		0.9%
W 68 Street/NW 122	Okeechobee Road	NW 97 Avenue	EB	7;	Collector	Hialeah Gardens		۵	809	0.60		6.9%
Street	NW 97 Avenue	NW 87 Av / W 28 Av	N N N	7 -	County Minor	Hialeah	254 612	_	808	1 0.42	Yes	3.1%
			WB	- - -	Arterial		632)	809	6.		2.8%
	NW 87 Av / W 28 Av	SR 826	EB	2 LD	County Minor	Hialeah	1,398	۵	1,620	0.86		7.6%
Dovisod July 2000			WB	2 LD	Arterial		1,0/2		029,1	1.03	NO Night on	3.5%
Neviscu cury 2000											10 C	d Associates, 115.

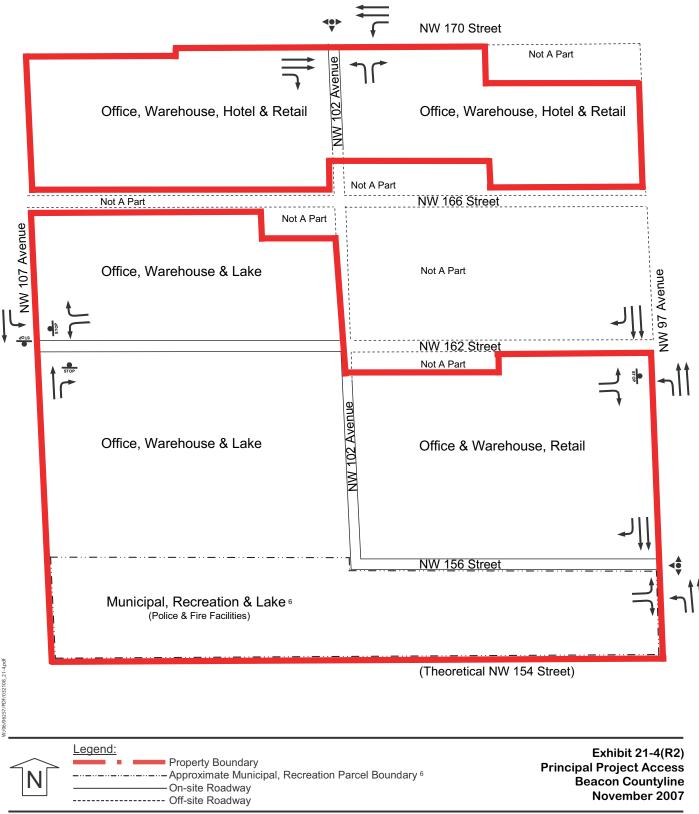
Table 21-9 (R) Intersection and Ramp Analysis Results Beacon Countyline DRI

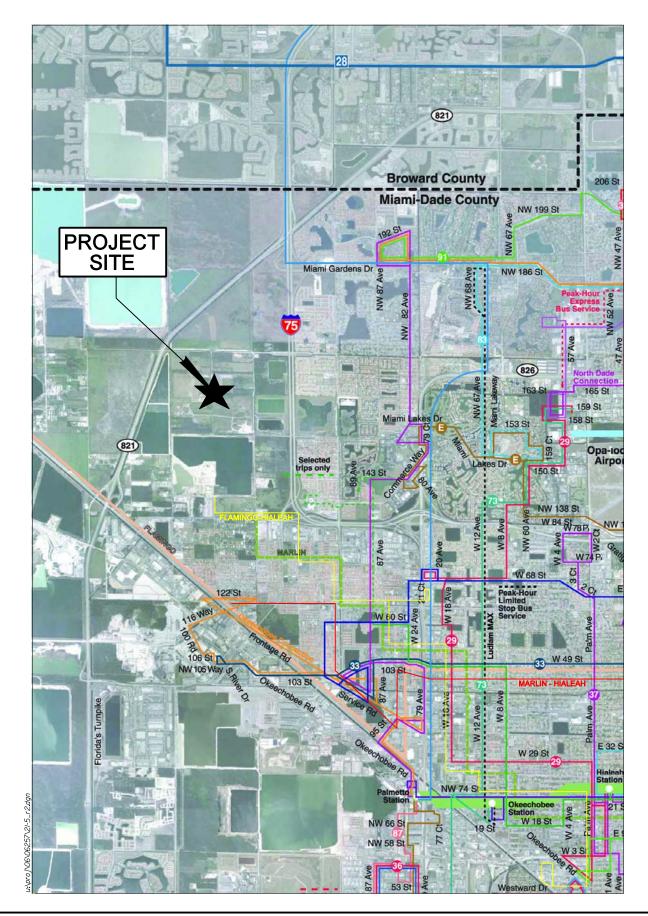
Intersection/Ramp	Time Period	Existing	Future w/o Project	Future w Project	Future w Project w Imps
NW 122 St/NW 97 Av	PM	С	С	С	
NW 122 St/NW 87 Av	PM	D	D	D	D
NW 170 St/HEFT West Ramp	PM				В
NW 170 St/HEFT East Ramp	PM				В
NW 170 St/ NW 102 Av	PM				С
NW 170 St/ NW 97 Av	PM				В
NW 162 St/ NW 107 Av	PM				В
NW 162 St/ NW 97 Av	PM				В
NW 156 St/ NW 97 Av	PM				С
HEET NED to 1.75 ND Divorgo	AM	Α	А	А	Α
HEFT NEB to I-75 NB Diverge	PM	Α	F	F	А
HEFT NEB to I-75 NB Merge	AM	Α	В	В	В
THEFT INED TO THE WEIGE	PM	F	F	F	С
I-75 SB to HEFT SWB Diverge	AM	С	F	F	(1)
Tro ob to the troub bivoigo	PM	Α	В	В	(1)
I-75 SB to HEFT SWB Merge	AM	В	F	F	С
The Spite Hall I Strainenge	PM	Α	В	В	Α
HEFT/NW 170 St Ramps (2)	PM				С
NW 138 Street EB to I-75 EB Merge	AM	С	D	D	
100 Street LD to 1-73 LD Weige	PM	С	С	E	
NW 138 Street EB to I-75 EB Diverge	AM	Α	В	В	
14W 130 Street LD to 1-73 LD Diverge	PM	Α	В	В	
I-75 EB to SR 826 SB Diverge	AM	F	F	F	Α
1-73 EB to Six 828 SB biverge	PM	В	F	F	А
I-75 EB to SR 826 SB Merge	AM	В	F	F	В
o _D to ort ozo ob morgo	PM	F	F	F	В
SR 826 NB to I-75 WB Diverge	AM	Α	А	А	
C. C	PM	Α	F	F	(1)
SR 826 NB to I-75 WB Merge	AM	Α	F	F	Α
2.1 2.2 1.2 to 1.2 112 morgo	PM	В	F	F	В

The Applicant contemplates that any development order issued for the Beacon Countyline DRI will contain a condition that will limit development to the issuance of certificates of occupancy for an equivalent amount of development which generates 2,000 pm peak hour net new external trips prior to commence of construction of an interchange on the HEFT at NW 170 Street. The following sample mix of land uses would generate 2,000 pm peak hour two-way trips:

Beacon Coun Proposed Develop	
Land Use	Sample Intensity
Warehouse	4,300,000 Sq. Ft.
Office	750,000 Sq. Ft.
Retail	350,000 Sq. Ft.
	Source: David Plummer & Associates

Note that the development program shown above and used as the basis for the analysis is intended as an example only and not necessarily the development program scenario that Beacon Countyline, LLC would use. The goal was to develop a program whose trip generation would not exceed 2,000 pm peak hour net new trips, in order to maintain similar impacts on the street network.





Source: David Plummer & Associates

Exhibit 21-5 (R2)
Existing Transit Routes
Beacon Countyline DRI

F. Based on the assignment of trips as shown in (D) and (E) above, what modifications in the highway network (including intersections) will be necessary at the end of each phase of development, to attain and maintain local and regional level of service standards? Identify which of the above improvements are required by traffic not associated with the DRI at the end of each phase. For those improvements which will be needed earlier as a result of the DRI, indicate how much earlier. Where applicable, identify Transportation System Management (TSM) alternatives (e.g., signalization, one-way pairs, ridesharing, etc.) that will be used and any other measures necessary to mitigate other impacts such as increased maintenance due to a large number of truck movements.

Although proportionate share is only assessed on roadway segments projected to operate above the adopted level of service standard, and where Project traffic utilizes five percent or more of the road service volume, the DRI process requires that all deficient roadway segments be identified. The following improvements are needed for 2018 traffic conditions without the addition of Project traffic to support all area development. These improvements are in addition to the improvements listed in **Section 21.A**, which are needed to eliminate backlogs for existing (2007) traffic conditions.

- SR 826 Palmetto Expressway, between Red Road and Ludlam Road (NW 67 Avenue), and between Miami Lakes Drive I-75; widen from 8 to 10 lanes;
- SR 826 Palmetto Expressway, between I-75 and NW 122 Street; widen from 10 to 12 lanes;
- SR 826 Palmetto Expressway, between NW 103 Street and NW 74 Street, widen from 12 lanes to 14 lanes;
- I-75 Miramar Parkway to HEFT, widen from 10 lanes to 12 lanes;
- The Homestead Extension of the Florida Turnpike (HEFT), between Red Road (NW 57 Avenue) and I-75, widen from 4 lanes to 6 lanes;
- The Homestead Extension of the Florida Turnpike (HEFT), between I-75 and NW 106 Street, widen from 8 lanes to 10 lanes;
- The Homestead Extension of the Florida Turnpike (HEFT), between NW 106 Street and NW 74 Street, widen from 8 lanes to 12 lanes;
- West Okeechobee Road (Frontage Road), between NW 87 Avenue and NW 77 Avenue, widen from 2 lanes undivided to 2 lanes divided;
- NW 122 Street (W 68 Street), NW 97 Avenue and NW 87 Avenue, widen from 2 lanes to 4 lanes;
- NW 122 Street (W 68 Street), NW 87 Avenue and SR 826, widen from 4 lanes to 6 lanes;
- NW 87 Avenue / NW 122 Street (W 68 Street) intersection, signal re-timing;
- HEFT north-eastbound to I-75 northbound ramp, add one mainline thru lane (HEFT) at diverge area;
- I-75 southbound to HEFT south-westbound ramp, add one mainline thru lane at diverge (I-75) area, and two through lanes at merge area (HEFT); and,
- Palmetto Expressway (SR 826) northbound to I 75 westbound ramp, add a northbound through lane (SR 826) at diverge area, and a westbound thru lane (I-75) at merge area.

The following additional improvements are needed to accommodate future traffic conditions once Project traffic is added to the street network.

- SR 826, between I-75 and NW 122 Street, widen from 10 to 12 lanes;
- NW 170 Street / NW 102 Avenue, Signalization;
- NW 170 Street / NW 97 Avenue, Signalization;
- NW 97 Avenue / NW 156 Street, Signalization; and,
- NW 138 Street eastbound to I-75 eastbound ramp, add a ramp lane at the diverge area.
- G. Identify the anticipated number and general location of access points for driveways, median openings and roadways necessary to accommodate the proposed development. Describe how the applicant's access plan will minimize the impacts of the proposed development and preserve or enhance traffic flow on the existing and proposed transportation system. This information will assist the applicant and governmental agencies in reaching conceptual agreement regarding the anticipated access points. While the ADA may constitute a conceptual review for access points, it is not a permit application and, therefore, the applicant is not required to include specific design requirements (geometry) until the time of permit application.

Exhibit 21-4 – Principal Project Access, shows the development plan and proposed principal project access points for the Project. Access to the Project is proposed through connections to NW 170 Street, NW 97 Avenue and NW 107 Avenue. One main connection is proposed at NW 170 Street at the proposed intersection with NW 102 Avenue. Two main connections are proposed at NW 97 Avenue, at NW 162 Street and NW 156 Street. Two main connections are proposed at NW 107 Avenue, at NW 166 Street and NW 162 Street. All main connections to the external roadway network have been analyzed in previous sections.

H. If applicable, describe how the project will complement the protection of existing, or development of proposed, transportation corridors designated by local governments in their comprehensive plans. In addition, identify what commitments will be made to protect the designated corridors such as interlocal agreements, right-of-way dedication, building set-backs, etc.

Beacon Countyline presents an opportunity to construct and/or contribute transportation improvements identified in the local government Comprehensive Plans. The Project will construct several roadways that will provide connectivity in this area of Hialeah. The extension of NW 107 Avenues and NW 97 Avenues north of NW 154 Street to NW 170 Street, which are both in the Miami-Dade County Long Range Plan. The extension of NW 170 Street from HEFT to the existing I-75 overpass will provide an additional east/west thoroughfare in the area.

In addition, the Developer will work closely with the Turnpike Enterprise towards the construction of a new interchange at HEFT with NW 170 Street.

I. What provisions, including but not limited to sidewalks, bicycle paths, internal shuttles, ridesharing and public transit, will be made for the movement of people

by means other than private automobile? Refer to internal design, site planning, parking provisions, location, etc.

A review of transit availability in the study area indicates that there are no existing Miami-Dade bus routes serving this area within a mile of the Site. The City of Hialeah Transit System offers two bus routes serving the City, which operate between 6:00 AM and 9:00 PM on weekdays. **Exhibit 21-5 (R) – Existing Transit** shows the existing routes serving the study area. The City has expressed their commitment to extend existing transit services to the Project Site. It is anticipated that Miami-Dade Transit (MDT) would also extend its transit system to this area.

Accommodations will be made within the Project for bus bays, bus stops, shelters and the like to promote transit ridership. Pedestrian linkages will be integrated into the Project design to ensure maximum non-vehicular travel. The developer will coordinate with Miami-Dade Transit Agency to facilitate the extension of transit service closer to the site. Additionally, Transportation Demand Management (TDM) strategies, such as those listed in **Appendix 21-15 (R) – Transportation Demand Strategies**, will be encouraged as part of this Project to improve mobility. These strategies include carpooling, vanpooling, telecommuting, and alternative work hours, to name a few.