QUESTION 21 – TRANSPORTATION

```
See State Comprehensive Plan (Chapter 187, F.S.)
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GOAL (11); POLICY (2)

GOAL (12); POLICIES (3),(4)

GOAL (16); POLICIES (1)

GOAL (18); POLICIES (1),(3)(4),(6)

GOAL (20); POLICIES (2),(3),(8),(9),(10),(12),(13),(15) GOAL (25); POLICY (5)

ROAD LINK/INTERSECTION:

EXISTING LEVEL OF SERVICE:

ADOPTED LEVEL OF SERVICE STANDARD:

LEVEL OF SERVICE AFTER PROJECT BUILDOUT:

A. 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 this study area are planned, programmed, or committed for improvement. Attach appropriate excerpts from published capital improvements plans, budgets and programs showing schedules and types of work and letters from the appropriate agencies stating the current status of the planned, programmed and committed improvements.

Preliminary Study Area

The preliminary study area was defined as the geographic area bounded by the following:

North: Broward/Palm Beach County Line

• East: Powerline Road

South: Atlantic Boulevard

West: University Drive

Please refer to Map J-3. Roadway segments within those boundaries that are classified by Broward County as "Trafficways" were considered.

The Adopted Level of Service standards for transportation facilities in Broward County's Comprehensive Plan were applied for the purposes of determining significant impact on the roadway segments within the study area. Broward County adopted a transit-oriented concurrency system that assigns a transit-based level of service to transportation facilities for the purposes of issuing development orders and permits, as defined in Policy 3.4.2 of the Broward County Comprehensive Plan. For the purposes of long-range transportation planning, more traditional level of service standards have been adopted, as defined in Policy 3.4.3. Therefore, for the purposes of determining significant impact, the level of service standards defined in Policy 3.4.3 have been applied.

Table 21-1 summarizes these roadway segments, the existing laneage, applicable roadway classification and generalized capacity based on generalized service volumes published in the Florida Department of Transportation (FDOT) 2007 Generalized Quality/Level of Service Tables.

Final Study Area

The final study area was defined as roadways on which project traffic contributes five percent or more of the maximum peak hour directional service volume at the adopted level of service standard of the facility. The derivation of project traffic and the determination of the percent of project impacts for these uses are described in the responses to questions 21-B, 21-C, and 21-D. Please refer to Map J-3.

As agreed upon in the methodology, an A.M. peak hour roadway segment analysis was conducted for specific segments of Sample Road (State Road 7 to Florida's Turnpike) and State Road 7 (Sample Road to Wiles Road) to determine the project's significance. These roadway segments were analyzed to determine if project traffic contributes five percent or more of the maximum peak hour directional service volume at the adopted level of service standard of the facility. Where the project is determined to be significant based upon this A.M. peak hour analysis, an A.M. peak hour roadway segment analysis was performed for the subject corridor. This analysis is included in Appendix 21-N.

Existing Conditions

Existing conditions on the study roadways within the final study area were quantified. The evaluation of the facilities was conducted for the existing 100th highest hourly volume conditions using the existing geometric and operational conditions of the facilities.

Roadway Conditions

Peak direction hourly volumes for roadway segments in Broward County were

determined from actual 2007 count data obtained from both Broward County and FDOT and adjusted using the appropriate peak season conversion factor. Existing peak hour directional volumes were compared to the generalized roadway level of service volumes adopted by Broward County. The roadway volumes and associated generalized roadway levels of service are shown in Table 21-1. Relevant roadway traffic count data is included in Appendix 21-A. (Page 21-3 Revised September 2009 SIN 1)

Intersection Conditions

As agreed upon in the study methodology, the study area also includes intersections within the boundaries of the preliminary study area. These intersections are listed as follows:

- SR 7/US 441 & Cullum Road/Turtle Creek Drive
- SR 7/US 441 & NW 40th Street
- SR 7/US 441 & Sample Road
- SR 7/US 441 & Wiles Road
- SR 7/US 441 & NW 54th Avenue/NW 31st Street
- Lyons Road & Wiles Road
- Sample Road & NW 62nd Avenue
- Sample Road & Lyons Road
- Sample Road & NW 54th Avenue
- Sample Road & Banks Road
- Banks Road and Wiles Road
- NW 40th Street & NW 54th Avenue
- Cullum Road & NW 54th Avenue

In addition to the above intersections specifically defined in the study methodology, several additional intersections were analyzed based upon whether the project is significant on an approach and whether or not the 90% threshold of the level of service standard is met. These intersections are included in Table 21-2 and subsequent intersection analysis summary tables. Existing volumes within the final study area are shown in Figures I-2 through I-7 in Appendix 21-I.

Table 21-2 summarizes the existing level of service conditions at the study intersections. Appendix 21-A includes intersection turning movement count and traffic signal timing data. Appendix 21-B includes the intersection volume development summary worksheets that include adjustments to peak season conditions. It should be noted that adjustments to the turning movement volumes at the Sawgrass Expressway interchanges within the final study were performed to account for the existing geometry at these locations. Appendix 21-C includes summary intersection analysis worksheets for existing conditions.

Table 21 1
Peak Hour Readway Conditions

Company Comp					Peak Hou	r Roadway C	onditions									
Part	Road	lway	200000000000000000000000000000000000000	Roadway	Roadway	Existing	Adopted					1000	Existing	V/C Patio	Existin	ng LOS
Company Comp	From	To	Jurisdiction					2000	> 3500		*52626327225		NR/ER	SBMB	NR/ER	SBMB
Second Column	Atlantic Boulevard										40/EB	30,1110	MONEO	30////8	110/50	3000
Secondary Seco										110000000000000000000000000000000000000						-
Section Sect	Ramblewood Drive	Rock Island Road	Broward County	Arterial	- #	8LD	₽	4,680	2,570	42,111	1,452	2,334	0.58	0.91	E	Ð
																-
Second Column																
Secondary Seco		Florida's Turnpike	FDOT		-	6LD	Ð	4,680	2,570	47,500	2,285	1,814	0.80	0.71	4	-
Section Sect		375 000 000 000	100000000000000000000000000000000000000	28 3000 200 200		2/20/20/20					1000					
Company Comp	Margate Boulevard															
Second					0.17				-1010/00/00/00	C 0250A2507531015 15	10710-100	37.000.00.0				
Section Sect		ndville Road Ranko Road	Broward County	Arterial	Тщ	44.0	П	2.110	1.710	27.442	017	1.078	0.54	1.18	ے ا	E
Column	Banks Road	The state of the s	Broward County	Arterial		4LD	₽	10.100.000	4,710	27,442	917	1,976	0.54	1.16	e	8E8
March Marc																-
Section Company Comp			City of Carol Springs	Artorial	1 1	44.00	п	3 300	1.000	28.224	1 222	1.261	0.66	0.60	l e	ē
Part	Riverside Drive	Rock Island Road	CS/Margate		s#]	4LD	Ð	3,380	1,860	34,366	1,446	1,545	0.78	0.83	₽	Ç
March Marc															-	-
Properties Pro		Lyons Road	Broward County	Arterial	+	4LD	₽	3,390	1,860	33,220	1.052	2,602	0.57	1.40	8	E
Section					+									-1533,007500		
Reservation	Sample Road	Divarcida Driva	EDOT	Artorial	Т ш	el D		4.690	2.570	20.000	1.001	1.510	0.62	0.60		-
The control Property Proper	Riverside Drive	Rock Island Road	FDOT	Arterial	#	8LD	₽	4,680	2,570	53,000	1,966	2,360	0.76	0.92	e	Ð
Commitment Com				900 2000												
Part		Lyons Road	FDOT	Arterial	#	8LD	₽		2,570	000,88	3,451	2,248	100000000	0.87	2000000	
Procession Pro							-		2,570		2,211		0.86			E
Column C		Powerline Road	FDOT	Arterial	#	6LD	₽	4,680	2,570	85,500	2,211	3,386	0.86	4.32	Đ	F
Marchaelmorde Marchaelmord Marchaelmorde Marchaelmorde Marchaelmorde Marchaelmorde	University Drive					22,700700				0.000 (0.000 (0.000)	2500000000					
					999											-
	SR 7	Lyons Road	Broward County	Arterial	s 4]	4LD	₽	3,390	1,860	18,883	691	1,008	0.37	0.54	B	:B:
Company Comp	Sawgrass Expressway	-	Broward County	Artenai	+	00										
Section Column			100000000000000000000000000000000000000	1000		1000000										
Company Comp	Lyons Road			123	14			9,840								
Process Proc	Florida's Turnpike	Powerline Road	FDOT	Arterial	#	8LD	Đ	4,680	2,570	35,600	1,843	2,073	0.72	0.81	C	Ç
Properties Pro	Helmberg Read/Johnson Read University Drive	Riverside Drive	City of Parkland	Collector		21.	Ð	850	530	10.588	459	710	0.87	1.34	l p	Æ
Company Comp						2L	Ð	950	530						F	-
Part	SR / Hillsboro Boulevard				-	h	. ₽		30000			Catalan .				
Control Prince Cont					-	100000		2,0.0		10,01				7.7.7.7	100	
Marie Residence COT Annexis COT Anne			- Charles - Char	-	+					39,500						
Exemple Read Municipal Property Color of Colors Color of Color of Colors Color of C		Royal Palm Boulevard	FDOT	Arterial	#	6LD	Đ	4,680	2,570	49,000	2,305	2,638	0.80	4.03	₽	E
MAINSTRAME Company Company Com				110000000000000000000000000000000000000										2007		
Company Comp	NW 40th Street	Wiles Road	City of Coral Springs	Arterial	#	4LD	Ð	3,110	1,710	29,641	1,208	1,225	0.71	0.72	e	e
Administration Application Application	7 Inc. 2017 2017 2017 2017			100000000000000000000000000000000000000				0.0000000000000000000000000000000000000		A STATE OF THE PARTY OF THE PAR						
Descript Principal Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contr	Atlantic Roulevard	Royal Palm Royleyard	Broward County	Arterial		44.0	п	2.070	1.140	28.199	1.100	1.284	1.05	1.13	E	E
Water Road Western Florad Control Cignet Ambard Control Cignet Ambard Control Cignet Ambard Control Cignet Ambard Control Cignet Contro	Royal Palm Boulevard	Sample Road	Broward County	Arterial	-	4LD	Ð	2,070	1,140	21,124	956	1,083	0.84	0.85	Ð	Ð
Martin Dictorion Margaba Bouleward Caput Margaba Adentif a 44.0 D 3,118 3,206 2,314 2,314 4.05 1.06		11110011000											- incident			
Margia Robertowol Copped Road Copped R	Rock Island Road				I ii		8									
Allers Charles Columbia C		margate Beaterara			1000			1271222				717.7		2225		
Adequate Desire Development Military Calculation C					+				7000000000							
Series December Company Comp	NW 66th Avenue															
SH2	Turtle Greek Drive/Cullum Road				-		8									
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Managabi Enderward Converte-Control-Toutoneys EDGT Asternal E BLD D 4480 2,677 42,174 2,644 2,007 1,01 0.02 E C	SR7															
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Companie Roads			4000000	100000000000000000000000000000000000000	100											
Miles-Fload Samptise-Expensionary FDOT Anstald II BLD D 4,488 2,571 45,610 2,033 2,949 0,78 1,102 C 5 5 5 5 5 5 5 5 5	Copans Road	Sample Road	FDOT	Arterial	#	8LD	Ð	4,680	2,570	50,000	2,186	1,815	0.85	0.75	Ð	C
Semple Read			20,000,000	A3334550155	7.59	117.007.00				11.10.00			1575.5			-
Hillshoro Boutevard Palm Beach County-Line FDOT Arterial H 6LD D 4,688 2,670 60,000 2,160 2,613 0,86 1,000 D E	Sawgrass Expressway	Holmberg Road	FDOT	Arterial	#	SLD	Ð	4,680	2,570	55,500	2,231	2,088	0.87	1.16	₽	E
Allandic Boulevard								100000000000000000000000000000000000000								
Copent-Front Cope	Banks Road Atlantic Boulevard	Coconut Creek Parlaway	Margate/CC	Collector	-	41-10	Ð	2.050	4.620	11,793	483	5AN	0.30	0.36	6	6
Sample Road Wiles Road City of Coconut Creek Cellecter NB D 2,070 1,140 Met 61 0,04 0,04 0,04 0,04 0,04 0,05	Coconut Creek Parkway	Copans Road	City of Margate	Collector	X=0	4LD	Ð	2,950	1,820	16,281	885	853	0.55	0.53	£	£
Atlantic Boulevard		Contract to the second			-					5,/35						-
NV-68h Manor	Lyons Road		W - 1888		- an					33 305						
CopaneRoad SampleRoad Chycl-CoconutCreek Arterial II 4LD D 3,110 1,710 31,913 1,991 1,425 1,111 0,93 F D Gample Road Willise Road Browner County Arterial I 8LD D 4,890 2,670 41,393 2,986 1,706 0,89 0,86 C 8 Miles Road Samples Expressivaly Browner County Arterial I 8LD D 4,890 2,670 37,526 1,713 2,926 0,67 0,91 B C Samples Expressivaly Johnson Road Broward County Arterial I 8LD D 4,890 2,670 37,526 1,713 2,926 0,67 0,91 B C G G G G G G G G G	NVV 6th Maner	Coconut Creek Parkway	Broward County	Arterial	#	4LD	Ð	3,110	1,710	33,385	2,188	1,121	1.28	0.66	Æ	C
Sample-Read Wiles-Read Broward-County Arterial	- coonar croon r annray		2000 E	7.1160.1161		2500				10.10.00	- 1	100000000000000000000000000000000000000				-
Sawgrase Expressway	Sample Road	Wiles Read	Broward County	Arterial	+	SLD	Ð	4,680	2,570	41,383	2,266	4,706	0.88	0.66	£	용
Hillsboro Boulevard Palm Beach County Line Broward County Arterial 1 6LD D 4,890 2,570 38,311 1,821 2,452 0,71 0.95 B C 1846/5 Templike Straight Stra					+			100000000000000000000000000000000000000								
Adaptic Boulevard								1004_000_000								
Coconut Creek Parkway Sample Road FDOT Freeway - 8LF D 10,060 5,530 92,100 4,387 3,866 0.80 0.72 C C	Florida's Turnpike	The state of the s	4				10. 20.									
Sample Read Sawgrass Expressway Palm Beach County Line FDOT Freeway - 8LF D 10,050 6,530 92,000 3,958 3,580 0.72 0.65 C Sawgrass Expressway Palm Beach County Line FDOT Freeway - 8LF D 10,050 5,530 97,500 4,855 4,108 0.94 0.78 D C																-
## Atlantic Boulevard Coconut Creek Parkway FDOT Collector - 4LD D 2,958 1,620 16,500 776 898 0.48 0.42 C C	Sample Road	Sawgrass Expressway	FDOT	Freeway	-	8LF	Ð	10,050	5,530	82,000	3,058	3,560	0.72	0.86	C	C
Copans Read Sample Read Broward County Collector - 4LD D 2,076 1,140 5,275 596 446 0.51 0.39 D C	Sawgrass Expressway NW 31st Ave FTPK	Palm Beach County Line	FDOT	Freeway		l ^{6LE}	-	10,050	5,530	97,500	4,655	4,198	0.84	0.76	<u> </u>	£
Copans Road Sample Road Broward County Collector - 4LD D 2,070 1,140 5,375 596 446 0.51 0.39 D C		Coconut Creek Parkway	FDOT	Collector	-	4LD	D	2,950	1,620	16,500	776	688	0.48	0.42	£	C
Atlantic Boulevard Coconut Creek Parkway FDOT Arterial I 8LD D 5,980 2,790 39,590 1,676 1,935 0.80 0.89 B Coconut Creek Parkway Copans Road FDOT Arterial I 6LD D 5,980 2,790 38,359 2,178 1,916 0.78 0.88 B Copans Road Sample Road FDOT Arterial I 8LD D 5,980 2,780 24,500 1,719 1,404 0.81 0.60 B B Sample Road Wiles Road FDOT Arterial I 8LD D 5,980 2,780 24,500 2,333 1,952 0.84 0.86 C B Wiles Road SW 19th Street FDOT Arterial I 8LD D 5,980 2,790 28,500 2,333 1,952 0.84 0.86 C B SW 19th Street Hillsbore Boulevard FDOT Arterial II <td>Copans Road</td> <td>Sample Road</td> <td>Broward County</td> <td>Collector</td> <td>1-</td> <td>4LD</td> <td>Đ</td> <td>2,070</td> <td>1,140</td> <td>5,375</td> <td>586</td> <td>448</td> <td>0.51</td> <td>0.38</td> <td>₽</td> <td>£</td>	Copans Road	Sample Road	Broward County	Collector	1-	4LD	Đ	2,070	1,140	5,375	586	448	0.51	0.38	₽	£
Copons Read Sample Read FDOT Arterial I 8LD D 5,080 2,700 34,500 1,710 1,404 0.81 0.50 B B Sample Read Wiles Road FDOT Arterial I 8LD D 5,080 2,790 46,500 2,333 1,952 0.84 0.66 C B Wiles Road SW10th Street FDOT Arterial I 8LD D 6,980 2,790 28,500 1,557 1,406 0.56 0.50 B B SW 10th Street Hillsbere Boulevard FDOT Arterial II 4LD D 3,110 1,710 36,600 2,150 1,288 1,28 0.76 F C	Atlantic Boulevard		200000000000000000000000000000000000000	Arterial	1	8LD										
Sample Road Wiles Road FDOT Arterial I BLD D 5,080 2,790 46,500 2,333 1,952 0.84 0.66 C B Wiles Road SW10th Street FDOT Arterial I 8LD D 5,080 2,790 28,500 1,557 1,406 0.56 0.50 B SW 10th Street Hillsbere Boulevard FDOT Arterial II 4LD D 3,110 1,710 36,500 2,150 1,288 1,28 0.76 F C															-	-
SW 18th Street Hillsbore Boulevard FDOT Arterial # 4LD D 3,119 1,719 35,590 2,150 1,289 1.26 0.75 F C	Sample Road	Wiles Road	FDOT	Arterial		8LD	₽	5,080	2,790	46,500	2,333	1,852	0.84	0.66	e	용
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								7746777								-

Table 21-1 Peak Hour Roadway Conditions

Part	Road	Iway	ī		Peak Hou	r Roadway C	onditions						1			
Section	002		Jurisdiction	7.00						2007 AADT			Existing '	V/C Ratio	Existin	ng LOS
Section Sect	From	То		Туре	Class	Laneage	Los	V olum e ⁽¹⁾	V olum e ⁽¹⁾	V olum e ⁽²⁾	NB/EB	SBWB	NB/EB	SB/WB	NB/EB	SB/WB
Second	Atlantic Boulevard	Piverside Drive	Broward County	Arterial	1 11	81.0	n	4.690	2 570	21 774	1 366	1 275	0.53	0.50	C	
Margin Color Marg	Riverside Drive	Ramblewood Drive	Broward County	Arterial	1 10000	6LD	D	4,680	2,570	39,371	1,510	1,841	0.59	0.72	C	C
Part													the second of	-		
Section School Property Section Property	NW 66th Avenue	SR 7	Broward County	Arterial		6LD	D	4,680	2,570	49,086	1,953	2,548	0.76	0.99		D
Section Control Cont																
Column					11			100000000000000000000000000000000000000							AACA:	-
Column C	NW 31st Avenue				- 11				200 (200 (200)			-				
Company Comp		NW 66th Avenue	City of Margate	Collector	-	4LD	D	2.070	1,140	8,917	259	767	0.23	0.67	С	D
Per	NW 66th Avenue	SR 7			(4)	4LD	D	2,070	1,140	8,917		767	0.23	0.67	С	D
Section Company Comp	SR7	Banks Road			1999											
Company Comp					- "	1000000								4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
March March 172	NW 31st Avenue-FTPK	Powerline Road		STATE OF STATE	11-										С	
Column C			City of Coral Springs	Arterial	- 1	4LD	D	3,390	1,860	26,224	1,233	1,261	0.66	0.68	В	В
STATE					1											
	SR 7	Banks Road	Broward County	Arterial	1	4LD	D	3,390	1,860	29,603	1,109	1,774	0.60	0.95	В	С
Company Comp					1				31103400					250250		
Company Comp		Powerline Road	Broward County	Arterial	1	6LD	D	5,080	2,790	34,682	1,309	2,118	0.47	0.76	В	В
Exercised Car	University Drive										-					
Part Description Part About Part Part About Part		- Colonia de la compania de Colonia de Colon			1000	0.000	1000		77.000.000							
Second Frank Person Frank Pers	SR 7	Banks Road	FDOT	Arterial		6LD		4,680	2,570	66,000	3,451	2,246	1.34	0.87	F	D
Property													-			
															200	
Reserrich for	Wiles Road/NW 48th Street															
Process					II.											
Comparison Com	Rock Island Road	SR7	Broward County	Arterial	11	4LD	D	3,110	1,710	34,970	1,260	2,093	0.74	1.22	С	
					1										1000	
SECOND PRINT PRI	Sawgrass Expressway University Drive	SR 7	FDOT	Freeway	4	6LF	Гр	9.840	5 4 10	67 700	3.503	3 944	0.65	0.73	С	C
West Company	SR 7	Lyons Road	FDOT	Freeway	-	6LF	D	9,840	5,410	65,500	3,389	3,816	0.63	0.71	С	С
Section Company Comp	Lyons Road SW 10th Street	Florida's Turnpike	FDOT	Freeway		6LF		9,840	5,410	68,600	3,550	3,996	0.66	0.74	С	С
Descriptor Des		Powerline Road	FDOT	Arterial	II.	6LD	D	4,680	2,570	35,600	1,843	2,073	0.72	0.81	С	С
Section Conference	University Drive			The state of the s	(4)	1000	70.00		11000		100000000000000000000000000000000000000				1477	
Committee 1927					- 12							_	_			
Georgia Content Cont	Hillsboro Boulevard	SR 7	Broward County	Collector	100	41 D	l n	2.070	1 140	10.874	598	578	0.52	0.51	С	С
State	SR 7	Lyons Road	FDOT	Arterial	1	6LD	D	5,080	2,790	24,000	958	1,454	0.34	0.52	В	В
Royal Part P	Lyons Road University Drive	Powerline Road	FDOT	Arterial	1	6LD	D	5,080	2,790	39,500	1,276	2,775	0.46	0.99	В	D
Section Width Plant Control Configuration Amenda March Plant Control Configuration Amenda Control Co					- "											
Wins Data	Sample Road	NW 40th Street	City of Coral Springs	Arterial	0.	6LD	D	4,680	2,570	32,669	1,553	1,236	0.60	0.48	С	С
Company Review										-	_					
Abstract Routevard		Holmberg Road	City of Parkland	Collector	127	4LD	D	2,070	1,140	14,922	940	641	0.82	0.56	D	D
Service Route		Royal Palm Boulevard	Broward County	Arterial			D									
White Final					- 121											
Absent Disposed Marget Baserverd Copy of Margabe Affers III 4LD 0 3100 1,700 07388 2,214 2,016 1,28 1,16 F F F F Margabe Disposed Copy of Margabe Affers III 4LD 0 3,100 1,700 07388 2,214 2,000 1,000	Wiles Road	TOWARD CONTRACTOR OF THE PERSON OF THE PERSO		70.50 (1995)	(4)	41000000	100		100 0000000	200 200 200 200 200 200 200 200 200 200		78,007,000,00		20000000	2920	
Report Person P		Margate Boulevard	City of Margate	Arterial	11		D	3,110				100000000000000000000000000000000000000		- 400000	F	
Margine Disease Wiles Phase Coly of Narguis Colinetr - 21. D 0.83 0.88 0.93 4.93 693 0.22 0.92				777	11							_				
Attained Equation Equation Equation (Exp.) Exp. Collector - 2L D SEE \$30 3322 135 216 0.55 0.60 C C C C C C C C C	Sample Road				i											
Sample Road SE7	WINCOLD MANAGEMENT OF THE PARTY	NW 18th Streeet	City of Margate	Collector	3=3	2L	D	950	530	3,902	135	210	0.25	0.40	С	С
SPT	Turtle Creek Drive/Cullum Road Sample Road	SR 7	City of Coral Springs	Collector	1420	4I D	I n	2.070	1.140	14 992	682	677	0.60	0.59	D	П
Administration Margate Bouldward FOOT Antenal II 8LD D 4,888 2,278 52,124 2,994 2,097 101 0.92 E C	SR 7				-											
Coconst Creek Parkway	Atlantic Boulevard				11											
No. 1981 Steel					II II	70.71							discourage and	7-2/0-00		_
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Wiles Fload Savgrass Expressory FDOT Antenla																
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Atlante Boulevard	Holmberg Road	Hillsboro Boulevard	FDOT		11	6LD		4,680	2,570	55,500	2,231	2,989	0.87	1.16	D	F
Attaince Coconut Creek Parkway Margatat/CC Collector Coconut Creek Parkway Copans Road Collector Collector Coconut Creek Parkway Copans Road Collector	Hillsboro Boulevard Banks Road	Palm Beach County Line	FDOT	Arterial	- 11	6LD	D	4,680	2,570	50,000	2,180	2,613	0.85	1.02	D	E
Copans Road Sample Road City of Margate Collector - 4LD D 2,950 1,920 5,735 227 356 0.14 0.022 C C C Sample Road City of Coconut Creek Collector - NB D 2,070 1,140 46° 51° 0.04 0.04 C C C C Sample Road NW 6th Manor Broward County Arterial II 6LD D 4,880 2,570 33,385 2,188 1,121 128 0.66 F C C C C C C C C C	Atlantic Boulevard				740											
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Sawgrass Expressway							10000	300000000000000000000000000000000000000			47.000.000.000				В	
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Atlantic Boulevard	Hillsboro Boulevard				i	100000000000000000000000000000000000000										
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Sawgrass Expressway	Coconut Creek Parkway	Sample Road	FDOT	Freeway	-					92,100	4,397					
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SW 10th Street Hillsboro Boulevard FDOT Arterial II 4LD D 3,110 1,710 35,500 2,159 1,288 1.26 0.75 F C Hillsboro Boulevard Palm Beach County Line FDOT Arterial II 4LD D 3,110 1,710 34,000 1,706 1,354 1.00 0.79 D C					1											
	SW 10th Street	Hillsboro Boulevard	FDOT	Arterial		4LD	D	3,110	1,710	35,500	2,159	1,288	1.26	0.75	F	С
			TOUT	Arterial	1 11	4LD		3,110	1,/10	34,00Û	1,706	1,354	1.00	U./9	D	C

(Page 21-4 revised September 2009 SIN 1) Notes:

Question 21 – Transportation

^{**}Maximum Service Volume for LOS standard determined from 2007 Quality/Level of Service Generalized Tables published by the Florida Department of Transportation.

**Volumes determined using following: Broward County MPO Year 2007 Traffic Count Report, Broward County counts, and FDOT counts obtained from 2007 Florida Traffic Info DVD.

**Volumes derived from turning movement counts collected for analysis and adjusted by appropriate peak season factor.

UC- Under Construction

NB= Roadway segment not completely constructed

kett_typolio43271000-main street or diright-loadwain Yellor 1 per starg-1-1

Table 21-2
Existing PM Peak Hour
Intersection Level of Service

Intersection	Date	Type of Signal	Intersection LOS	Intersection		Approa	ch LOS	
intersection	Counted	Control	intersection CO3	Delay (sec.)	EB	WB	NB	SB
Sample Rd and Riverside Dr	9/23/2008	Signalized	E	56.6	E	D	D	E
Sample Rd and Holiday Springs Blvd	3/4/2009	Signalized	D	37.3	В	D	E	E
Sample Rd and Rock Island Rd	9/23/2008	Signalized	D	42.1	D	С	Е	Е
Sample Rd and Turtle Run Blvd	11/18/2008	Signalized	В	13.4	Α	В	С	С
Sample Rd and NW 62nd Ave/Turtle Creek Dr	8/26/2008	Signalized	С	33.7	C	С	F	E
Sample Rd and SR 7	9/10/2008	Signalized	В	18.4	В	В	N/A	N/A
Sample Rd and NW 54th Ave	8/27/2008	Signalized	С	27.7	С	В	D	D
Sample Rd and Banks Rd	9/3/2008	Stop-Controlled	(1)	(1)	C ⁽²⁾	C ⁽²⁾	С	С
Sample Rd and Lyons Rd	8/27/2008	Signalized	F	83.4	D	С	F	F
Sample Rd and NW 42nd Ave	11/12/2008	Signalized	С	33.4	В	D	D	D
Sample Rd and Tradewinds Park Rd	11/12/2008	Signalized	Α	9.5	В	Α	E	E
Sample Rd and Florida's Turnpike	10/1/2008	Signalized	С	34.1	D	С	D	N/A
NW 40th St and NW 54th Ave	8/26/2008	Stop-Controlled	(1)	(1)	В	В	$A^{(2)}$	$A^{(2)}$
Wiles Rd and SR 7	8/26/2008	Signalized	É	64.6	D	F	D	F
Wiles Rd and Banks Rd	10/2/2008	Stop-Controlled	(1)	(1)	(3)	B ⁽²⁾	С	N/A
Wiles Rd and Lyons Rd	8/26/2008	Signalized	Ď	38.3	F	E	С	С
Wiles Rd and Powerline Rd	11/20/2008	Signalized	С	29.3	С	D	С	С
NW 31st St and SR 7	8/27/2008	Signalized	С	34.7	Ε	E	С	С
NW 40th St and SR 7	9/3/2008	Stop-Controlled	(1)	(1)	N/A	С	(3)	(3)
Cullum Rd/Turtle Creek Dr and SR 7	8/27/2008	Signalized	Ċ	20.9	F	D	В	В
Winston Park Blvd and SR 7	11/19/2008	Signalized	С	26.1	Ε	E	С	В
Sawgrass Expressway (NB) and SR 7	9/24/2008	Signalized	Α	3.0	N/A	N/A	Α	Α
Sawgrass Expressway (SB) and SR 7	9/24/2008	Signalized	Α	3.6	N/A	N/A	Α	Α
Coconut Creek Pkwy and Lyons Rd	9/24/2008	Signalized	Е	67.1	D	E	F	Е
Lyons Plaza and Lyons Rd	11/18/2008	Signalized	Α	9.5	Ε	N/A	Α	Α
Wynmoor Way and Lyons Rd	11/18/2008	Signalized	В	18.5	E	E	В	Α
Copans Rd and Lyons Rd	10/1/2008	Signalized	E	63.8	D	E	E	D
NW 34th St and Lyons Rd	11/18/2008	Signalized	Α	9.4	Ε	E	Α	Α
Winston Park Blvd and Lyons Rd	11/18/2008	Signalized	D	42.5	Ε	E	D	D
Sawgrass Expressway (NB) and Lyons Rd (NB)	9/24/2008	Signalized	С	28.0	Α	N/A	В	F
Sawgrass Expressway (NB) and Lyons Rd (SB)	9/24/2008	Signalized	В	16.4	D	N/A	N/A	В
Sawgrass Expressway (SB) and Lyons Rd (NB)	9/24/2008	Signalized	С	21.7	N/A	Е	В	N/A
Sawgrass Expressway (SB) and Lyons Rd (SB)	9/24/2008	Signalized	В	18.3	N/A	Α	E	В
Sawgrass Boulevard and Lyons Road	11/18/2008	Signalized	В	15.7	С	С	В	В
Holmberg Rd Johnson Rd and Lyons Rd	11/18/2008	Signalized	С	22.4	C	С	В	С
Hillsboro Blvd and Lyons Rd	3/4/2009	Signalized	D	54.0	Ε	E	D	D

(Page 21-5 revised September 2009 SIN 1)

Notes:

 $^{{}^{(1)}\!}$ Overall LOS at two-way stop controlled or one way stop-controlled intersections is not defined.

 $^{^{(2)}}$ Approach reflects the left-turn movement only, the through movement operates under free-flow conditions.

 $[\]ensuremath{^{(3)}}\mbox{Approach operates under free-flow conditions}$. LOS is not defined.

Transit Service

Following is information on transit service adjacent to the site. Additional information including route maps, frequency, and ridership is included in Appendix 21-D.

Existing Broward County Transit

The following Broward County Transit bus routes currently serve the area of the proposed site:

- Route 18 is generally a north/south route and offers service between the Golden Glades Park & Ride Lot in Miami-Dade County and Sandalfoot Cove Boulevard in Palm Beach County. This route traverses the County along SR 7/US 441 and operates seven days a week. Headways are kept at 15 minutes during weekday peak hours, 20 minutes on Saturdays, and 30 minutes on Sundays.
- Route 31 is generally a north/south route that offers service along NW 31st Avenue/Lyons Road between Broward Central Terminal and Hillsboro Boulevard. Route 31 operates seven days a week with headways at 20 minutes during weekday peak hours, 30 minutes on Saturdays, and 45 minutes on Sundays.
- Route 34 is generally an east/west route that offers service along Sample Road between Coral Ridge Drive and Federal Highway. Route 34 operates seven days a week with headways at 30 minutes during weekday peak hours, 40 minutes on Saturdays, and 60 minutes on Sundays.
- Route 441 Breeze is generally a north/south route that travels along SR 7/US 441 and offers service between the Golden Glades Park & Ride Lot in Miami-Dade County and Sample Road. This route has limited stops to reduce travel times and headways are kept at 30 minutes during the weekdays.

Broward County Transit's (BCT) bus service is integrated with South Florida Regional Transportation Authority's (SFRTA) Tri-Rail service, which provides commuter rail service within Palm Beach County, Broward County, and Miami-Dade County. BCT Route 34, which primarily serves the Sample Road corridor and runs adjacent to the site, connects to Tri-Rail's Pompano Beach Station near Sample Road. The transit providers of both Palm Beach County and Miami-Dade County (Palm-Tran and Miami-Dade Transit) also provide transit connections to Tri-Rail stations allowing travel among locations throughout all three counties.

BCT also provides transit service to Fort Lauderdale-Hollywood International Airport via Route 1. Route 1 primarily serves the US 1/Federal Highway corridor south of

Broward Boulevard. Transfers from many bus routes to Route 1 occur at the Broward Central Terminal. Multiple routes to/from the proposed site connect to Route 1 via the Broward Central Terminal. Route 34, serving the proposed site and the Sample Road corridor, connects to Route 14 at Powerline Road. Route 14 serves the Powerline Road corridor and connects to Route 1 at the Broward Central Terminal.

City of Coconut Creek Community Bus Service

The City of Coconut Creek provides a local circulation minibus system for its residents. The hours of service for this service are 6:30 A.M. to 6:00 P.M. on Monday through Saturday, with no operation currently on Sundays. All of the minibuses are oriented to destinations within the City with connections to Broward County Transit (BCT) and City of Margate Inner-City Transit. Two (2) routes (N and S) provide service in the vicinity of the project. Route N connects with BCT's routes 14, 18, 31, 34, 83 and 441 Breeze. Route S connects with BCT's routes 18, 31, 34, 42, 60, 83 and 441 Breeze. Headways are kept at 60 minutes on both routes with no fare. The City monitors ridership on the routes monthly and continuously evaluates potential methods to improve upon the service provided to not only ensure the most efficient use of City financial resources, but also to enhance the service provided by both Broward County and the City of Margate.

City of Margate Inner-City Transit

The City of Margate provides a local circulation minibus system for its residents. The hours of service for this service are 6:30 A.M. to 6:30 P.M. on Monday through Saturday, with no operation currently on Sundays. All of the minibuses are oriented to destinations within the City with connections to Broward County Transit, City of Coconut Creek community bus service, and City of Coral Springs community bus service. Two (2) routes (A and B) provide service in the vicinity of the project. The system operates in conjunction with BCT's routes 18, 31, 34, 42, 60, 83 and 441 Breeze. Headways are kept at 60 minutes on both routes and the fare is \$0.25 per trip. The City monitors ridership on the routes monthly and continuously evaluates potential methods to improve upon the service provided to not only ensure the most efficient use of City financial resources, but also to enhance the service provided by both Broward County and the City of Coconut Creek.

Existing Ridership

The Broward County Comprehensive Plan has determined a current modal split of 1.64 percent for trips using transit on a county-wide basis. The maps provided in the "Map J" section of this ADA (Question 9) show the current transit routes.

Based upon annual route ridership data provided by BCT, three (3) of the four (4) adjacent BCT transit routes have seen ridership increases over the last seven years. This information is summarized in Table 21-3 below.

Table 21-3 Average Growth Rates on Adjacent BCT Routes					
Route	Route Average Growth Rate (FY 01/02-FY 07/08)				
18	1.67%				
31	-3.55%				
34	10.39%				
441 Breeze	1.65%				

As indicated in the Table 21-4 below, the four (4) adjacent BCT routes are also expected to experience a significant growth in ridership from existing conditions (2008) through 2018. The ridership data is presented in the Broward County Transit Development Plan FY 2009-2018 and is Appendix 21-D.

Table 21-4 BCT Ridership Projections by Route, FY 2009 Through 2018								
Bus Route	2008 Daily 2013 Projected % Change 2018 Projected % Change Ridership Daily Ridership from 2008 Daily Ridership from 2008							
18	14,511	18,728	29.0%	23,465	61.7%			
31	3,836	4,614	20.2%	5,305	38.3%			
34	2,890	3,393	17.4%	3,899	34.9%			
441 Breeze	1,748	2,175	24.4%	2.579	47.5%			

Three (3) of the adjacent BCT routes are ranked in the top 50% of the best performing routes, according the Broward County Transit Development Plan FY 2009-2018. BCT routes are ranked on a combination of several factors including: ridership, annual revenue miles, and allocated costs. Route 1 is the best performing route in the County and both Route 31 and Route 34 are in the top 20 best performing routes in the County. The actual rankings and information used in the rankings are included in Appendix 21-D.

The current level of transit ridership in the project vicinity is identified by ridership information provided by BCT. The data provided is from surveys conducted from January 11, 2009 to March 22, 2009. This information shows the daily boardings and alightings at the transit stops immediately adjacent to the project site. This information is summarized in Table 21-5 and this data is included in Appendix 21-D.

Table 21-5 BCT Existing Average Daily Weekday Boarding and Alightings						
Bus Route	Į.	Average Daily T	rips			
bus Route	Boardings	Alightings	Total Trips			
BCT 18	369	340	709			
BCT 31	121	123	244			
BCT 34	473	488	961			
BCT 441 Breeze	83	77	160			
Total	1,046	1,028	2,074			

Historical ridership information for City of Coconut Creek and City of Margate community buses was obtained from BCT. Annual ridership information from year 2006 to year 2008 is provided in Table 21-6 below. An annual growth rate was also calculated for each route based upon the historical ridership data. As shown below, three of the four bus routes experienced positive growth since 2006, only the City of Margate Route A experienced a slight decline in ridership.

Table 21-6 Community Bus Historical Ridership							
Bus Route FY 2006 FY 2007 FY 2008 Growth							
bus Noute	Passengers	Passengers	Passengers	Rate			
Coconut Creek	55,954	56,608	61,080	3.0%			
Route N							
Coconut Creek	40,453	43,643	50,997	8.0%			
Route S							
Margate Route A	36,145	44,041	35,270	-0.8%			
Margate Route B	18,612	27,150	25,449	11.0%			

In addition to current transit service within the area, the following improvements are targeted by Broward County Transit to better serve the site:

Programmed Transit Improvements

The priority in the Transit Element of the Broward County MPO's 2030 Long Range Transportation Plan (LRTP) (2007) and the Transit Development Plan (FY 2009 – 2018) is to enhance existing BCT fixed route local bus service and identify new premium transit routes for commuter service. The BCT Transit Development Plan for FY 2009-2018 includes one (1) improvement within the vicinity of the site: reduction in weekday headways on Route 34 from 30 minutes to 20 minutes (FY 2010). This information is included in Appendix 21-E.

Transit Enhancement Plans

The Transit Element of the LRTP involves continuing headway improvements on existing fixed routes with new routes to serve areas of high growth. In addition to increased service frequencies, the LRTP proposes significant improvement to transit travel times (compared to autos) through the implementation of Bus Rapid Transit (BRT) projects in the priority transit corridors. Instead of using tracks and trains, BRT operates on existing roads and uses cutting edge Intelligent Transportation System (ITS) devices to create a high performance transit system. By combining the quality and speed of rail transit with the flexibility of buses, BRT is being viewed as a lower cost alternative to light rail transit. A BRT system includes the following potential components:

- Special Vehicle Design
- Specific Stop Spacing and Design
- On-board and In-station Information
- Signal Priority Treatments
- Separate Bus Lanes/Pullouts
- Electronic Fare Collection Techniques

A BRT/Rapid Bus system is currently planned for the SR 7 corridor from Miami-Dade County to Palm Beach County. A rapid bus system is currently planned for the Sample Road corridor from Sawgrass Expressway to Pompano Square Mall. A rapid bus system differs from a BRT in that service is in mixed-traffic where a BRT typically has exclusive transit lanes. This information is included in Appendix 21-E.

Multimodal Information

Consistent with the *Guidelines and Performance Measures to Incorporate Transit and Other Multimodal Considerations into the FDOT DRI Review Process,* multimodal information was compiled consistent with Table 2 of the referenced document. The following sections summarize this information.

High-occupancy vehicle lanes

High-occupancy vehicle (HOV) lanes are not currently provided on a corridor within the preliminary study area. However, it should be noted that existing HOV facilities are provided on Interstate 95 east of the proposed development.

Transit service (rail and/or bus)

Refer to information previous presented as part of this response.

Bus rapid transit

Existing bus rapid transit service is not currently provided within the study area. However, Broward County's Long Range Transportation Plan (LRTP) includes operation of bus rapid transit along State Road 7 immediately west of the site. Rapid bus service is currently provided on the State Road 7 corridor up to Sample Road. It is the intent of the Applicant to integrate existing future transit service from State Road 7 within the development.

Multi-use trails, location and regional (off-road)

According to Broward County's Greenway System information, no major multi-use trails exist within the preliminary study area. It should be noted that several planned trails are anticipated to be constructed within the study area including the Creek/Springs Florida Power and Light (FPL) Right-of-Way (ROW) Trail, Rock Island FPL ROW Trail, Turnpike Greenway, and the Riverside Drive Canal Trail. Furthermore, the Creek/Springs FPL ROW Trail is proposed along the Cullum Road right-of-way between Lyons Road and State Road 7 within the project site. Maps and additional information regarding each route can be found at http://www.broward.org/greenways/.

The City of Coconut Creek's Master Greenway Plan outlines several greenway trails within the area in addition to Broward County's planned facilities. Proposed City greenway trail (MainStreet Perimeter Greenway) are located along Wiles Road from Lyons Road to State Road, Sample Road from State Road 7 to Lyons Road, and Lyons Road from Hilton Road to Sample Road. Additional proposed facilities that provide connectivity to the proposed greenway trails adjacent to the site include the Hilton Road Greenway and Whispering Trails Greenway. (Page 21-11 revised September 2009 SIN1)

Bicycle lanes (on-road)

Several roadways within the study area have bicycle facilities. Facilities range from marked bike lanes to paved shoulders. The following facilities were noted:

Marked Bicycle Lane

- Wiles Road from State Road 7 to Florida's Turnpike
- Sample Road from University Drive to Rock Island Road
- Powerline Road from Coconut Creek Parkway to SW 10th Street
- Blount Road from Copans Road to Sample Road
- Hillsboro Boulevard from State Road 7 to Powerline Road

Wide Curb Lane

- State Road 7 from Sample Road to Wiles Road
- Sample Road from State Road 7 to Lyons Road
- Riverside Drive from Sample Road to Wiles Road

Paved Shoulders

- Sample Road from Lyons Road to Florida's Turnpike
- NW 31st Avenue from Atlantic Boulevard to Coconut Creek Parkway

3' Underdesignated Bicycle Lane

Powerline Road from Atlantic Boulevard to Coconut Creek Parkway

Existing bicycle level of service (LOS) conditions were examined for major roadways that are significantly impacted by the project. These roadways include portions of Sample Road, State Road 7, Wiles Road, and Lyons Road. The generalized capacity analysis was based on service criteria published in the Florida Department of Transportation (FDOT) 2007 Generalized Quality/Level of Service Tables. Table 21-7 below summarizes this analysis.

Table 21-7 Existing Bicycle Mode Level of Service Analysis								
Roadway	Segment	Paved Shoulder/Bicycle Lane Coverage	Existing PM peak hour volumes (# of lanes)	Level of Service (LOS)				
Sample Rd	Riverside Drive to	50-84%	EB-3,451(3)	EB – LOS F				
Sample Na	Florida's Turnpike	30 0470	WB-2,360(3)	WB –LOS E				
Wiles Rd	Powerline Road to	100%	EB-677(2)	EB – LOS D				
vviies itu	State Road 7	100%	WB-988(2)	WB – LOS D				
Lyons Rd	Coconut Creek Parkway to Hillsboro Boulevard	0-49%	NB-1,961(2) SB-2,529(3)	NB –LOS F SB – LOS E				
State Rd 7	Sample Road to	0-49%	NB-2,341(3)	NB – LOS E				
State Nu /	Sawgrass Expressway	0-43/0	SB-2,649(3)	SB – LOS F				

Sidewalks/pedestrian facilities

An inventory of existing sidewalk facilities was performed within ¾ mile of the site boundaries consistent with typical multimodal planning practices. Sidewalk facilities exist on both sides of all major roadways within the area with few exceptions. Minor exceptions exist along both sides of State Road 7 south of Sample Road and on the

west side of Lyons Road south of Sample Road, and pedestrian crossings do not exist at the intersection of State Road 7 and Sample Road. The applicable design and construction standards for both FDOT and Broward County were the basis of the design and construction of these sidewalks.

Existing sidewalk LOS conditions were examined for major roadways that are significantly impacted by the project. The generalized capacity analysis was based on service criteria published in the Florida Department of Transportation (FDOT) 2007 Generalized Quality/Level of Service Tables These roadways include portions of Sample Road, State Road 7, Wiles Road, and Lyons Road. Table 21-8 below summarizes this analysis.

Table 21-8 Existing Pedestrian Mode Level of Service Analysis								
Roadway	Segment	Sidewalk Coverage	Existing PM peak hr volumes (# of lanes)	Level of Service (LOS)				
Sample Road	Riverside Drive to Florida's Turnpike	85-100%	EB-3,451(3) WB-2,360(3)	EB – LOS D WB –LOS D				
Wiles Road	Powerline Road to State Road 7	85-100%	EB-677(2) WB-988(2)	EB – LOS C WB – LOS C				
Lyons Road	Coconut Creek Parkway to Hillsboro Boulevard	85-100%	NB-1,961(2) SB-2,529(3)	NB –LOS D SB – LOS D				
State Road 7	Sample Road to Sawgrass Xpwy	85-100%	NB-2,341(3) SB-2,649(3)	NB – LOS D SB – LOS D				

Parking management

No parking management programs were identified within the study area.

Transportation demand management – commuter assistance services

South Florida Commuter Services (SFCS) provides alternative transportation options for the residents/visitors within the study area. Options include carpooling, vanpooling, and park-n-ride information. SFCS provides information on each of these programs and the means for people to participate in these programs on its website http://www.1800234ride.com.

Broadband/wireless

Broadband/wireless services exist via private providers allowing for tele-work, telecommuting, teleconferencing, etc.

Baseline modal split of alternative modes

As noted previously, the Broward County Comprehensive Plan has determined a current modal split of 1.64 percent for trips using transit on a county-wide basis. The corridors adjacent to the site are served by a number of transit providers, including Broward County Transit, City of Margate, and City of Coconut Creek. In the future, transit service enhancements expected to occur throughout Broward County are projected to increase this split.

Planned, programmed or committed improvements to existing or new multimodal facilities

Refer to information previously presented as part of this response.

Existing level of service for transit or multimodal alternatives

Existing sidewalk LOS conditions were examined for adjacent major roadways based upon the existing sidewalk coverage and transit headways. These roadways include portions of Sample Road, State Road 7, Wiles Road, and Lyons Road. The generalized capacity analysis was based on service criteria published in the Florida Department of Transportation (FDOT) 2007 Generalized Quality/Level of Service Tables Table 21-9 below summarizes this analysis.

	Table 21-9						
Existing Bus Mode Level of Service Analysis							
Roadway	Sidewalk	Peak Period	Level of				
Noauway	Coverage	Buses per hour	Service (LOS)				
Sample Boad	85-100%	EB-3	EB – LOS C				
Sample Road	85-100%	WB-3	WB –LOS C				
Wiles Road	85-100%	EB-1	EB – LOS E				
Wiles Road	83-100/0	WB-1	WB – LOS E				
Lyons Boad	85-100%	NB-4	NB –LOS C				
Lyons Road	85-100%	SB-4	SB – LOS C				
Ctata Dand 7	85-100%	NB-6	NB – LOS B				
State Road 7	65-100%	SB-6	SB – LOS B				

Land Use/Site Design

The proposed development includes a development mix that includes significant residential, retail, and employment uses. Additionally, site features focus on promoting pedestrian, bicycle and transit usage. For more information regarding the applicable design standards and site plan features, refer to Question 211.

The proposed development is expected to have densities and intensities that support transit ridership. It is estimated that, excluding dedications for roadways, parks, wetlands and retention areas, the development will have a floor area ratio (FAR) in excess of 2.0. Furthermore, the proposed development will provide higher intensities along NW 54th Avenue and within the project's core area to promote alternative modes. As outlined within the responses to Question 21, the proposed development will have ample connectivity to adjacent development and the surrounding street network.

Programmed Roadway Improvements

A review of the current Transportation Improvement Program (TIP) FY 2008-2013 adopted by the Broward County Metropolitan Planning Organization was undertaken. The following roadway improvements that would enhance the roadway capacity were listed in the TIP within the study area:

- Wiles Road: construction of new four-lane divided roadway from Lyons Road to Powerline Road (under construction)
- Banks Road: construction of new four-lane divided roadway from Wiles Road to Cullum Road (FY 2009-2010)
- Cullum Road: construction of new four-lane divided roadway from NW 54th Avenue to Lyons Road (FY 2009-2010)
- NW 40th Street: construction of new four-lane divided roadway from NW 54th Avenue to Lyons Road (FY 2009-2010)
- Banks Road: construction of two additional lanes resulting in four-lane divided roadway from NW 40th Street to Sample Road (FY 2010-2011)
- Banks Road: construction of new four-lane divided roadway from Cullum Road to NW 40th Street (FY 2010-2011)
- Florida's Turnpike: construction of two additional lanes resulting in eight-lane divided expressway from Atlantic Boulevard to Sawgrass Expressway (FY 2011-2012)
- Wiles Road: construction of two additional lanes resulting in six-lane divided roadway from SR 7 to Rock Island Road (FY 2011-2012)
- Johnson Road: construction of two additional lanes resulting in four-lane divided roadway from SR 7 to Lyons Road (FY 2011-2012)
- Sample Road: Intersection improvements at Rock Island Road including dual eastbound/westbound left-turn lanes and an eastbound right-turn lane (under construction)

As agreed upon in the methodology, improvements to the roadway network which are funded for construction within the first three (3) fiscal years of the TIP were included in the analysis. Relevant tables have been included in Appendix 21-E.

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 Model Structure or the Institute of Transportation Engineers trip generation rates) shall be determined at the pre-application conference stage.

The expected trip generation for the subject project was determined in accordance with the agreed-upon study methodology. Trips were calculated using the equations contained in the Institute of Transportation Engineers' (ITE) *Trip Generation*, Seventh Edition. The project trip generation was calculated for four (4) types of project land uses: residential condos/townhouses, residential high-rise condos/townhouses, retail, and office. The specific land use codes and independent variables used for the trip generation calculations are listed in Table 21-10.

	Table 21-10 Basis of Trip Generation Calculations							
Land Use	Independent Variable	Land Use Code						
Residential	Dwelling Units	ITE 230: Residential Condominium/Townhouse						
Residential	Dwelling Units	ITE 232: High-Rise Residential Condominium/ Townhouse						
Retail	1,000 square feet gross leasable area	ITE 820: Shopping Center						
Office	1,000 square feet gross floor area	ITE 710: General Office Building						

The total gross trips calculated for the ultimate buildout conditions (Year 2020) are based on the development shown in Table 21-11.

Table 21-11 Development at Buildout						
Land use Type						
<u>Townhouse</u> Residential / Condos (dwelling units)	High-Rise Residential / Condos (dwelling units)	Retail (sq. ft.)	Office (sq. ft.)			
100	3,650	1,625,000	525,000			

The total gross P.M. peak hour trips generated during the build out year are shown in Table 21-12.

	Table 21 Total Gross		
Land Use	P	.M. Peak Hou	ır
Land Ose	Enter	Exit	Total
Residential	819	497	1,316
Retail	1892	2050	3942
Office	113	554	667
Total	2,824	3,101	5,925

The total gross trips generated represent the total vehicular demand for the project land uses and includes internal trips, external pass-by capture, external diverted trips, and external new trips. Details of the trip generation calculations as well as the components of the trip generation are shown in Appendix 21-F.

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.

The proposed development program includes a mix of residential, retail, and office uses. All of the uses are internally connected through roadway and pedestrian connections. Vehicles can travel within the site without accessing the adjacent roadway network and several of the uses on site are expected to share parking facilities. Interaction among the proposed land uses was determined based on data and procedures established in the Institute of Transportation Engineers' *Trip Generation Handbook*, Second Edition. This data demonstrates that many of the uses proposed for this development tend to be complementary and may share common patrons. The intra-DRI internal capture trips are shown in Table 21-13. Details of the trip generation calculations as well as the components of the trip generation are shown in Appendix 21-F.

Int	Table 2 ra-DRI Internal	_	
Land Use		P.M. Peak Hou	r
Land Ose	Enter	Exit	Total
Residential	266	161	427
Retail	235	254	489
Office	14	70	84
Total	515	485	1,000

As agreed upon in the methodology, a credit for transit trips to and from the site was applied to the external trip generation potential of the site based upon a percentage of the generated volumes to account for the project's transit-related amenities. These credits were be applied for measures designed to reduce external vehicular trips, including but not limited to Traffic Demand Management (TDM) policies, pedestrian and bicycle amenities and local circulator shuttles. Credits for the transit-based and TDM measures equal 10% of the office and residential traffic plus 5% of the commercial retail traffic. The internal trips and transit/non-vehicular trips were subtracted from the generated volumes to determine the driveway trips for the buildout year. Table 21-14 summarizes the reductions taken for transit/non-vehicular modes of transportation.

Transit ,	Table 2: Non Vehice	1-14 ular Mode Trips	,
Land Use		P.M. Peak Ho	ur
Lanu Use	Enter	Exit	Total
Residential	82	50	132
Retail	95	102	197
Office	11	56	67
Total	188	208	396

	Table 2									
<u>Transit/Non-Vehicular Mode Trips</u>										
Land Use		P.M. Peak Ho	<u>ur</u>							
<u>Lanu Ose</u>	<u>Enter</u>	<u>Exit</u>	<u>Total</u>							
<u>Residential</u>	<u>82</u>	<u>50</u>	<u>132</u>							
<u>Retail</u>	<u>95</u>	<u>102</u>	<u>197</u>							
<u>Office</u>	<u>11</u>	<u>56</u>	<u>67</u>							
<u>Total</u>	<u>188</u>	208	<u>396</u>							

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Only the retail land use is expected to generate pass-by traffic. To determine the pass-by capture percentage for the retail development, the methodology outlined in the ITE *Trip Generation Handbook*, Second Edition was used. Table 21-15 shows the pass-

by percentage used in the calculations for this component of the site.

Pass-By	Table 2: Capture fo	1-15 r Commercia	l Retail
Percentage	Futor	P.M. Peak H	_
	Enter	Exit	Total
17.39%	288	312	600

Gross volumes were reduced by both the transit/non-vehicular mode and pass-by capture reduction to obtain the net new volumes. These volumes are defined as new vehicular traffic entering/exiting the site. Table 21-16 presents the net new volumes. Details of the trip generation calculations are included in Appendix 21-F.

Table 21-16 Summary of Net New Volumes											
Land Use		P.M. Pe	ak Hour								
Lanu USE	Enter	Exit	Total								
Residential	4 71	286	757								
Retail	1,274	1,382	2,656								
Office	88	4 28	516								
Total 1,833 2,096 3,929											

	Table 2	<u>1-16</u>										
<u>Summ</u>	Summary of Net New Volumes											
Land Use	P.M. Peak Hour											
Land OSE	<u>Enter</u>	<u>Exit</u>	<u>Total</u>									
<u>Residential</u>	<u>498</u>	<u>302</u>	<u>800</u>									
<u>Retail</u>	<u>1,286</u>	1,394	<u>2,680</u>									
<u>Office</u>	<u>89</u>	<u>436</u>	<u>525</u>									
<u>Total</u>	<u>1,873</u>	2,132	4,005									

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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 sub zones at build out 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 identified. 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.

To evaluate 2020 conditions upon buildout of this project, increases in traffic volumes generated by both background traffic and project traffic were considered. The increases in background traffic volumes were determined based upon an overall historic growth rate and, if applicable, actual committed development traffic volumes. Following is a summary of the calculations that were undertaken.

Background Growth

An average annual growth rate for each roadway segment was determined based on the increase in traffic volumes over a seven-year period (2000 through 2007). An areawide growth rate was calculated as an average of increases in traffic volumes on roadway segments within the study area. For the purposes of this calculation, the growth rate for toll expressways, Sawgrass Expressway and Florida's Turnpike, was calculated separately from that of surface streets. A 1.3 percent growth rate was calculated for surface streets and a 3.5 percent growth rate was calculated for toll expressways. Growth rate data and the summary calculations are included in Appendix 21-G.

Committed Developments

Committed development information was supplied by the South Florida Regional Planning Council (SFRPC) and the cities where the individual projects were approved. The following is a list of committed developments and other approved DRIs that were considered in the analysis:

- Downtown Coral Springs DRI
- Commerce Center of Coconut Creek DRI
- Seminole Coconut Creek Casino
- Cocomar Plaza
- Promenade at Coconut Creek
- Lyons Corporate Park DRI
- Sawgrass Exchange DRI
- Pompano Industrial Park DRI
- Coral Landings III

The most recent traffic analyses of the listed committed developments were reviewed. The committed trip volumes and distribution were taken directly from the existing reports and applied to the roadway segments. If distribution information was not available, a SERPM model was run to determine an applicable distribution. As noted, he committed developments were also researched to determine what portion of the

approved development was built and only the remaining development rights were included in the analysis. Traffic volumes associated with these developments were determined for each of the roadway links within the final study area. Figures in Appendix 21-G illustrate the assignment of traffic to and from these committed developments. (Page 21-20 Revised September 2009 SIN 1)

To determine background traffic volumes, the increase in traffic resulting from the application of the growth rate was compared to the increase in traffic that would result from the committed development traffic plus half of the same growth rate. The larger of the two numbers was used in order to determine the overall background traffic increase.

Volumes for the proposed roadways and roadways under construction were extracted from the 2020 Southeast Florida Regional Planning Model (SERPM) zonal data discussed in the following section in more detail. The 2020 data was interpolated using 2005 and 2030 z-data. The appropriate factors were applied to calculate peak hour directional volumes. These calculations are included in Appendix 21-G. The following roadway volumes were extracted from the model:

- Cullum Road (SR 7 to Lyons Road)
- Banks Road (Sample Road to Wiles Road
- Wiles Road (Lyons Road to Powerline Road)

The volumes on Sample Road, SR 7, and Wiles Road in the 2020 SERPM model with the Wiles Road extension were compared to the volumes on the corresponding roadway segments in the model without the Wiles Road extension. This difference in traffic was rerouted to/from Wiles Road (Lyons Road to Powerline Road) via SR 7 and Wiles Road (SR 7 to Lyons Road). Sample Road (Rock Island Road to Florida's Turnpike) was adjusted accordingly to reflect the rerouting of traffic.

Project Traffic

Project traffic distribution and assignment was determined using the Florida Standard Urban Transportation Model Structure (FSUTMS). Specifically, the Southeast Florida Regional Planning Model (SERPM) was utilized by prorating z-data between the year 2005 validation model and the year 2030 model to the year 2020. The roadway network in the year 2014 E+C model was utilized for the analysis. Socio-economic data representing the proposed buildout plan of development was added to the existing traffic analysis zone (TAZ) where the project is located. Project traffic was assigned to the roadway network consistent with the model output, with the exception that some of the traffic was reassigned to surrounding roadway links based on knowledge of the area and engineering judgment when deemed appropriate. Assignment to individual driveways was performed manually based on the location and configuration of the project access driveways. Relevant model output plots are included in Appendix 21-H.

Table 21-17 summarizes the assignment of project traffic to the significantly impacted roadway links within the final study area for the 2020 buildout year. The final study area is defined as those roadway links in this table that are determined to be significantly impacted by project traffic.

Table 21-17
Significant Impacts
Roadway Facilities in Broward County

			Roady	vay Facilitie	int Impac s in Brow		y							
Road		Committed Number of	Adopted	Maximum Directional	9/ Assign	Assign Hot Home Direction (In/Out) Harris				Signif	icance	Significant Impact?		
From	Te	Lanes	LOS	Volume ⁽¹⁾	% Assign ment	Proposed Traffic	NB/EB	SB/WB	NB / EB	SB / WB	NB/EB	SB/WB	NB/EB	SB / V
tlantic Boulevard University Drive	Riverside Drive	6LD	Ð	2,570	1.0%	39	ł	0	18	21	0.7%	0.8%	No	No
Riverside Drive Ramblewood Drive	Ramblewood Drive Rock Island Road	6LD 6LD	Đ Đ	2,570 2,570	0.0% 0.0%	0	1	0 0	0	0	0.0% 0.0%	0.0% 0.0%	No No	Ne Ne
Rock Island Road NW 66th Avenue	NW 66th Avenue SR 7	6LD 6LD	D	2,570 2,570	0.0% 0.0%	0	l l	0	0	0	0.0% 0.0%	0.0% 0.0%	Ne Ne	No No
SR-7 Banks Road	Banks Road Lyons Road	6LD 6LD	Đ Đ	2,570 2,570	0.0% 0.0%	0	+	0 0	0	0	0.0% 0.0%	0.0% 0.0%	No No	Ne Ne
Lyons Road Florida's Turnpike	Florida's Turnpike NW 31st Avenue	6LD 6LD	D	2,570 2,570	2.0% 2.0%	79 79	0	 	42 42	37 37	1.6% 1.6%	1.4% 1.4%	Ne Ne	Ne Ne
NW 31st Avenue Margate Boulevard	Powerline Road	6LD	Đ	2,570	1.0%	39	θ .	1	21	18	0.8%	0.7%	No	Ne
Rock Island Road NW 66th Avenue	NW 66th Avenue	4LD 4LD	Đ	1,140 1,140	0.0% 1.0%	9 39	+	0	0 18	9 21	0.0% 1.6%	0.0% 1.8%	No No	Ne Ne
SR 7 Banks Road	Banks Road	4LD 4LD	Ð	1,710 1,710	1.0% 0.0%	39 0	1	0	18 0	21 0	1.1% 0.0%	1.2% 0.0%	No No	Ne Ne
Lyons Road	NW 31st Avenue-FTPK	4LD	Đ	1,710	2.0%	79	0	į.	42	37	2.5%	2.1%	No	Ne
NW 31st Avenue-FTPK Royal Palm Boulevard/Copans R University Drive	Powerline Road Output Output	4LD	Ð	1,710 1,860	2.0% 0.0%	79	0	Ð	4 2 θ	37	2.5% 0.0%	2.1% 0.0%	No No	Ne Ne
Riverside Drive Rock Island Road	Rock Island Road SR 7	4LD	Đ	1,860 1,860	0.0% 1.0%	9	i	0	0 18	0	0.0% 1.0%	0.0% 1.1%	No No	No No
SR 7 Banks Road	Banks Road	4LD 4LD	Đ	1,860 1,860	1.0% 0.0%	39 0	+	0	18 0	21 0	1.0% 0.0%	1.1% 0.0%	No No	No No
Lyons Road Blount Road	Blount Road Powerline Road	4LD 6LD	Đ	1,860 2,790	3.0% 2.0%	118 79	0	+	63 42	55 37	3.4% 1.5%	3.0% 1.3%	No No	No No
Sample Road University Drive	Riverside Drive	6LD	Ð	2,570	3.0%	118	+	θ.	55	63	2.1%	2.4%	Ne	Ne
Riverside Drive Rock Island Road	Rock Island Road SR 7	6LD	Đ	2,570 2,570 2,570	9.0% 11.0%	354 432	1	0	165 202	189 231	6.4% 7.8%	7.3% 9.0%	Yes Yes	Yes
SR-7	Banks Road Banks Road	3LD (EB)	Đ	2,570 2,570	4.9% 6.9%	193 271	₩	- 1/0	193	- 271	7.5%	- 10.5%	Yes	Yes
Banks Road Banks Road	Lyons Road	3LD (WB)	Đ	2,570 2,570	9.6% 7.3%	377 287	I/O	- 1/0	377	287	14.7%	11.2%	Yes	Yes
Lyons Road	Florida's Turnpike	6LD	Đ	2,570 2,570 2,570	15.0% 6.0%	589 236	0	+ +	314 126	275 110	12.2% 4.9%	10.7% 4.3%	Yes No	Yes
Florida's Turnpike Blount Road Viles Road	Blount Road Powerline Road	6LD 6LD	Đ	2,570 2,570	5.0%	196	0	+	105	92	4.1%	3.6%	Ne	No No
University Drive	Riverside Drive Rock Island Road	4LD 4LD	Ð	1,710 1,710	2.0% 4.0%	79 157	į	0	37 73	42 84	2.1% 4.3%	2.5% 4.9%	No No	Ne Ne
Rock Island Road SR 7	SR 7 Lyons Road	6LD 2LD (EB)	Đ	2,570 1,860	5.0% 3.2%	196 126	 	0	92 126	105	3.6% 6.8%	4.9% 4.1%	No Yes	No
SR 7 SR 7 Lyons Road	Lyons Road Lyons Road Powerline Road	2LD (EB) 2LD (WB) 4LD	Đ Đ	1,860 1,860 1,860	6.0% 9.0%	236 354	- Q	- I/O I	189	236 165	10.1%	12.7% 8.9%	Yes - Yes	Ye Ye
Powerline Road Sawgrass Expressway	Military Trail	4LD	Đ	1,860	2.0%	79	0	+	42	37	2.3%	2.0%	Ne	No.
University Drive	SR-7 Lyons Road	6LF 6LF	Đ Đ	5,410 5,410	2.0% 2.0%	79 79	1	0	37 37	4 2 4 2	0.7% 0.7%	0.8% 0.8%	No No	Ne Ne
Lyons Road SW 10th Street	Florida's Turnpike	6LF	Đ	5,410 5,410	8.0%	314	Ð	i	168	147	3.1%	2.7%	Ne	Ne
Florida's Turnpike IoImberg Road/Johnson Road	Powerline Road	6LD	Ð	2,570	6.0%	236	θ	ł	126	110	4.9%	4.3%	Ne	Ne
University Drive Riverside Drive	Riverside Drive SR 7	2 L	Đ Đ	530 530	1.0% 1.0%	39 39	1	0	18 18	21 21	3.5% 3.5%	4.0% 4.0%	No No	No No
SR 7 Hillsboro Boulevard	Lyons Road	4LD	Đ	1,140	2.0%	79	1	0	37	42	3.2%	3.7%	Ne	Ne
Loxahatchee Road SR 7	SR 7 Lyons Road	4LD 6LD	Đ Đ	1,140 2,790	1.0% 1.0%	39 39	+	0	18 18	21 21	1.6% 0.7%	1.8% 0.8%	No No	No No
Lyons Road Jniversity Drive	Powerline Road	6LD	Ð	2,790	1.0%	39	Đ	+	21	18	0.8%	0.7%	Ne	Ne
Atlantic Boulevard Royal Palm Boulevard	Royal Palm Boulevard Sample Road	6LD 6LD	Ð Ð	2,570 2,570	0.0% 1.0%	9 39	+	0	9 18	9 21	0.0% 0.7%	0.0% 0.8%	No No	No No
Sample Road NW 40th Street	NW 40th Street Wiles Road	6LD 4LD	Đ Đ	2,570 1,710	0.0% 0.0%	0 0	ΦΦ	+	0	0	0.0% 0.0%	0.0% 0.0%	Ne Ne	Ne Ne
Wiles Road Sawgrass Expressway	Sawgrass Expressway Helmberg Road	4LD 4LD	D	1,710 1,140	0.0% 0.0%	0	0	‡ ‡	0	0	0.0% 0.0%	0.0% 0.0%	No No	No No
Riverside Drive Atlantic Boulevard	Royal Palm Boulevard	4LD	Ð	1,140	2.0%	79	ļ	0	37	42	3.2%	3.7%	No	Ne
Royal Palm Boulevard Sample Road	Sample Road Wiles Road	4LD 4LD	Đ	1,140 1,140	2.0% 2.0%	79 79	0	÷ ÷	37 42	42 37	3.2% 3.7%	3.7% 3.2%	No No	Ne Ne
Wiles Road Rock Island Road	Holmberg Road	4LD	Ð	1,140	1.0%	39	0	ł	21	48	1.8%	1.6%	Ne	Ne
Atlantic Boulevard Margate Boulevard	Margate Boulevard Royal Palm Boulevard	4LD 4LD	Đ	1,710 1,710	1.0% 2.0%	39 79	1	0	18 37	21 42	1.1% 2.1%	1.2% 2.5%	No No	Ne Ne
Royal Palm Boulevard Sample Road	Sample Road Wiles Road	4LD 4LD	Đ	1,860 1,860	2.0% 0.0%	79 0	0	0	37 0	42 0	2.0% 0.0%	2.3% 0.0%	No No	No No
W 66th Avenue Atlantic Boulevard	NW 18th Streeet	2LU	Đ	530	0.0%	0	ļ	θ	θ	θ	0.0%	0.0%	Ne	Ne
Furtle Creek Drive/Cullum Road Sample Road	SR 7	4LD	Ð	1,140	1.0%	39	+	0	48	21	1.6%	1.8%	Ne	Ne
SR 7 SR 7	Lyons Road Lyons Road	2L(EB) 2L (WB)	Ð	1,140 1,140	4.8% 5.9%	187 232	1/0 -	- I/O	187 -	- 232	16.4% -	20.3%	Yes -	Yes
Atlantic Boulevard	Margate Boulevard	6LD	Đ	2,570	2.0%	79	+	0	37	42	1.4%	1.6%	Ne	Ne
Margate Boulevard Coconut Creek Parkway	Coconut Creek Parkway NW 18th Streeet	6LD 6LD	Đ	2,570 2,570	3.0% 2.0%	118 79	1	0	55 37	63 42	2.1% 1.4%	2.4% 1.6%	No No	No No
NW 18th Street Copans Road	Copans Road Sample Road	6LD 6LD	Đ	2,570 2,570	3.0% 4.0%	118 157	1	0	55 73	63 84	2.1% 2.9%	2.4% 3.3%	No No	No No
Sample Road Sample Road	Wiles Road Wiles Road	3LD (NB) 3LD (SB)	Đ	2,570 2,570	6.2% 4.7%	244 185	1/0	-	244	- 185	9.5%	7.2%	Yes -	Ye
Wiles Road Sawgrass Expressway	Sawgrass Expressway Helmberg Road	6LD 6LD	Đ	2,570 2,570	11.0% 6.0%	432 236	0	‡ ‡	231 126	202 110	9.0% 4.9%	7.8% 4.3%	Yes No	Ye No
Holmberg Road Hillsboro Boulevard	Hillsboro Boulevard Palm Beach County Line	6LD 6LD	Đ Đ	2,570 2,570	5.0% 4.0%	196 157	0	‡ ‡	105 84	92 73	4.1% 3.3%	3.6% 2.9%	No No	No No
Atlantic Boulevard	Coconut Creek Parkway	4LD	Ð	1,620	0.0%	0	+	0	0	0	0.0%	0.0%	No	No
Coconut Creek Parkway Copans Road	Copans Road Sample Road	4LD 4LD	Đ	1,620 1,620	1.0% 3.0%	39 118	1	0	18 55	21 63	1.1% 3.4%	1.3% 3.9%	No No	No No
Sample Road Sample Road	Wiles Road Wiles Road	2L (NB) 2L (SB)	Д	1,140 1,140	8.0% 9.6%	314 376	1/O -	- I/O	314 -	- 376	27.5% -	33.0%	Yes	Ye
-yons Road Atlantic Boulevard	NW 6th Manor	6LD	Ð	2,570	4.0%	157	+	0	73	84	2.9%	3.3%	Ne	Ne
NW 6th Manor Coconut Creek Parkway	Coconut Creek Parkway Copans Road	4LD 4LD	Đ	1,710 1,710	4.0% 7.0%	157 275	+	0	73 128	84 147	4.3% 7.5%	4.9% 8.6%	No Yes	Ye
Copans Road Sample Road	Sample Road Wiles Road	3LD (NB)	Đ	1,710 2,570	11.0% 12.3%	432 483	 	0	202 483	231	11.8% 18.8%	13.5%	Yes Yes	Ye
Sample Road Wiles Road	Wiles Road Sawgrass Expressway	3LD (SB) 6LD	Đ	2,570 2,570	7.5% 19.0%	295 747	0	1/0 1	398	295 348	15.5%	11.5% 13.6%	Yes	Ye Ye
Sawgrass Expressway Jehnsen Road	Johnson Road Hillsboro Boulevard	6LD	Đ	2,570 2,570	11.0% 7.0%	432 275	0	‡ ‡	231 147	202 128	9.0% 5.7%	7.8% 5.0%	Yes Yes	Ye No
Hillsboro Boulevard	Palm Beach County Line	6LD	Ð	2,570	5.0%	196	0	+	105	92	4.1%	3.6%	No	Ne
Atlantic Boulevard Coconut Creek Parkway	Coconut Creek Parkway Sample Road	8LF 8LF	Đ	7,480 7,480	4.0% 4.0%	157 157	1	0	73 73	84 84	1.0% 1.0%	1.1% 1.1%	No No	No.
Sample Road Sawgrass Expressway	Sawgrass Expressway Palm Beach County Line	8LF 6LF	Đ Đ	7,480 5,530	5.0% 7.0%	196 275	0	‡ ‡	105 147	92 128	1.4% 2.7%	1.2% 2.3%	No No	N-
Atlantic Boulevard	Coconut Creek Parkway	4LD	Ð	1,620	0.0%	0	1	0	0	0	0.0%	0.0%	Ne	N-
Glount Road Copans Road Powerline Road	Sample Road	4LD	Ð	1,140	1.0%	39	1	٥	18	21	1.6%	1.8%	Ne	Ne
Atlantic Boulevard	Coconut Creek Parkway	6LD	Ð	2,790	2.0%	79	1	0	37	42	1.3%	1.5%	No.	N.
	Copans Road	6LD	Đ	2,790	2.0%	79	+ 	0	37 37	42 42	1.3% 1.3%	1.5% 1.5%	No No	No No
Coconut Creek Parkway Copans Road	Sample Road	6LD	Đ	2,790	2.0%	79								
	Sample Road Wiles Road SW 10th Street Hillsbore Boulevard	6LD 6LD 6LD 4LD	D D D	2,790 2,790 2,790 1,710	2.0% 0.0% 2.0% 4.0%	9 79 157	0 0	+ + +	9 42 84	9 37 73	0.0% 1.5% 4.9%	0.0% 1.3% 4.3%	No No No	No No

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His Maximum Service Volume for LOS standard determined from 2007 Quality/Level of Service Generalized Tables published by the Florida Department of Transportation.

Table 21-17
Significant Impacts

			Roadv	vay Facilitie	s in Brow	ard County	*							
Roadv From	To	Committed Number of Lanes	Adopted LOS	Maximum Directional Volume ⁽¹⁾	% Assign- ment	Net New Proposed Traffic	PM Projection Direction NB/EB	n (In/Out)	Tra	affic SB / WB	Signif	icance SB/WB	Significar	nt Impact?
Atlantic Boulevard University Drive Riverside Drive	Riverside Drive Ramblewood Drive	6LD 6LD	D D	2,570 2,570	1.0%	40	I I	0	19 0	21	0.7%	0.8%	No No	No No
Ramblewood Drive Rock Island Road	Rock Island Road NW 66th Avenue	6LD 6LD	D D	2,570 2,570	0.0%	0	I	0	0	0	0.0%	0.0%	No No	No No
NW 66th Avenue SR 7	SR 7 Banks Road	6LD 6LD	D D	2,570 2,570	0.0%	0	1	0	0	0	0.0%	0.0%	No No	No No
Banks Road Lyons Road	Lyons Road Florida's Turnpike	6LD 6LD	D D	2,570 2,570	0.0% 2.0%	0 80	0	0 I	0 43	0 37	0.0% 1.7%	0.0% 1.5%	No No	No No
Florida's Turnpike NW 31st Avenue	NW 31st Avenue Powerline Road	6LD 6LD	D D	2,570 2,570	2.0% 1.0%	80 40	0	l I	43 21	37 19	1.7% 0.8%	1.5% 0.7%	No No	No No
Margate Boulevard Rock Island Road	NW 66th Avenue	4LD	D D	1,140	0.0%	0	1	0	0	0 21	0.0%	0.0%	No	No
NW 66th Avenue Coconut Creek Parkway/Hammor SR 7		4LD	D	1,140	1.0%	40		0	19	21	1.6%	1.9%	No No	No No
Banks Road Lyons Road	Lyons Road NW 31st Avenue-FTPK	4LD 4LD	D D	1,710 1,710	0.0%	0 80	I 0	0	0 43	0 37	0.0%	0.0%	No No	No No
NW 31st Avenue-FTPK Royal Palm Boulevard/Copans Ro	Powerline Road	4LD	D	1,710	2.0%	80	0	i	43	37	2.5%	2.2%	No	No
University Drive Riverside Drive	Riverside Drive Rock Island Road	4LD 4LD	D D	1,860 1,860	0.0%	0	I	0	0	0	0.0%	0.0%	No No	No No
Rock Island Road SR 7	SR 7 Banks Road	4LD 4LD	D D	1,860 1,860	1.0%	40 40		0	19 19	21 21	1.0%	1.1%	No No	No No
Banks Road Lyons Road	Lyons Road Blount Road	4LD 4LD	D D	1,860 1,860	0.0% 3.0%	0 120	0	0 I	0 64	0 56	0.0% 3.4%	0.0% 3.0%	No No	No No
Blount Road Sample Road	Powerline Road	6LD	D	2,790	2.0%	80	0	I	43	37	1.5%	1.3%	No	No
University Drive Riverside Drive	Riverside Drive Rock Island Road	6LD 6LD	D D	2,570 2,570	3.0% 9.0%	120 360		0	56 169	64 192	2.2% 6.6%	2.5% 7.5%	No Yes	No Yes
Rock Island Road SR 7	SR 7 Banks Road	6LD 3LD (EB)	D D	2,570 2,570	11.0% 4.9%	441 196	I I/O	O -	206 196	235	8.0% 7.6%	9.1%	Yes Yes	Yes -
SR 7 Banks Road	Banks Road Lyons Road	3LD (WB) 3LD (EB)	D D	2,570 2,570	6.9% 9.6%	276 384	- I/O	I/O -	384	276	- 15.0%	10.8%	- Yes	Yes -
Banks Road Lyons Road	Lyons Road Florida's Turnpike	3LD (WB) 6LD	D D	2,570 2,570	7.3% 15.0%	292 601	- 0	I/O I	320	292 281	- 12.4%	11.4% 10.9%	- Yes	Yes Yes
Florida's Turnpike Blount Road	Blount Road Powerline Road	6LD 6LD	D D	2,570 2,570	6.0% 5.0%	240 200	0	l	128 107	112 94	5.0% 4.1%	4.4% 3.6%	No No	No No
University Drive	Riverside Drive	4LD	D	1,710	2.0%	80	l :	0	37	43	2.2%	2.5%	No	No
Riverside Drive Rock Island Road	Rock Island Road SR 7	4LD 6LD	D D	1,710 2,570	4.0% 5.0%	160 200	1	0	75 94	85 107	3.6%	5.0% 4.1%	No No	No No
SR 7 SR 7	Lyons Road Lyons Road	2LD (EB) 2LD (WB)	D D	1,620 1,620	3.2% 6.0%	128 240	I/O -	- I/O	128	240	7.9%	14.8%	Yes -	Yes
Lyons Road Sawgrass Expressway University Drive	Powerline Road SR 7	4LD 6LF	D	1,620 5,530	9.0%	360 80	0	0	192	169	0.7%	0.8%	Yes No	Yes No
SR 7 Lyons Road	Lyons Road Florida's Turnpike	6LF 6LF	D D	5,530 5,530	2.0%	80 320	I 0	0	37 171	43 150	0.7%	0.8%	No No	No No
SW 10th Street Florida's Turnpike	Powerline Road	6LD	D	2,570	6.0%	240	0	ı	128	112	5.0%	4.4%	No	No
Holmberg Road/Johnson Road University Drive	Riverside Drive	2L	D	530	1.0%	40	I	0	19	21	3.5%	4.0%	No	No
Riverside Drive SR 7	SR 7 Lyons Road	2L 4LD	D D	530 1,140	1.0%	40 80	I	0	19 37	21 43	3.5% 3.3%	4.0% 3.7%	No No	No No
Hillsboro Boulevard Loxahatchee Road	SR 7	4LD	D	1,140	1.0%	40	I	0	19	21	1.6%	1.9%	No	No
SR 7 Lyons Road	Lyons Road Powerline Road	6LD 6LD	D D	2,790 2,790	1.0%	40 40	0	0 I	19 21	21 19	0.7% 0.8%	0.8%	No No	No No
Atlantic Boulevard	Royal Palm Boulevard	6LD	D	2,570	0.0%	0	ı.	0	0	0	0.0%	0.0%	No	No
Royal Palm Boulevard Sample Road NW 40th Street	Sample Road NW 40th Street Wiles Road	6LD 6LD	D D	2,570 2,570 1,710	1.0% 0.0% 0.0%	40 0 0	0	0 I	19 0 0	0	0.7% 0.0% 0.0%	0.8%	No No No	No No
Wiles Road Sawgrass Expressway	Sawgrass Expressway Holmberg Road	4LD 4LD 4LD	D D	1,710 1,710 1,140	0.0%	0	0		0	0 0	0.0%	0.0% 0.0% 0.0%	No No	No No
Riverside Drive Atlantic Boulevard	Royal Palm Boulevard	4LD	D	1,140	2.0%	80	ı	0	37	43	3.3%	3.7%	No	No
Royal Palm Boulevard Sample Road	Sample Road Wiles Road	4LD 4LD	D D	1,140	2.0%	80 80	I O	0	37 43	43	3.3%	3.7%	No No	No No
Wiles Road Rock Island Road	Holmberg Road	4LD	D	1,140	1.0%	40	0	i	21	19	1.9%	1.6%	No	No
Atlantic Boulevard Margate Boulevard	Margate Boulevard Royal Palm Boulevard	4LD 4LD	D D	1,710 1,710	1.0%	40 80	l I	0	19 37	21 43	1.1% 2.2%	1.2% 2.5%	No No	No No
Royal Palm Boulevard Sample Road	Sample Road Wiles Road	4LD 4LD	D D	1,860 1,860	2.0% 0.0%	80 0	0	0 I	37 0	43 0	2.0% 0.0%	2.3% 0.0%	No No	No No
NW 66th Avenue Atlantic Boulevard	NW 18th Streeet	2LU	D	530	0.0%	0	I	0	0	0	0.0%	0.0%	No	No
Sample Road	SR 7	4LD	D	1,140	1.0%	40	1	0	19	21	1.6%	1.9%	No	No
SR 7 SR 7	Lyons Road Lyons Road	2L(EB) 2L (WB)	D D	1,140 1,140	4.8% 5.9%	190 236	I/O -	- I/O	190	236	16.7%	20.7%	Yes -	Yes
Atlantic Boulevard	Margate Boulevard	6LD	D D	2,570	2.0%	80 120	I	0	37 56	43	1.5%	1.7%	No	No No
Margate Boulevard Coconut Creek Parkway NW 18th Street	Coconut Creek Parkway NW 18th Streeet Copans Road	6LD 6LD 6LD	D D	2,570 2,570 2,570	3.0% 2.0% 3.0%	80 120	l I	0	37 56	64 43 64	2.2% 1.5% 2.2%	2.5% 1.7% 2.5%	No No No	No No
Copans Road Sample Road	Sample Road Wiles Road	6LD 6LD 3LD (NB)	D D	2,570 2,570 2,570	3.0% 4.0% 6.2%	160 248	I I/O	0	75 248	85	2.2% 2.9% 9.7%	3.3%	No No Yes	No No
Sample Road Wiles Road	Wiles Road Wiles Road Sawgrass Expressway	3LD (NB) 3LD (SB) 6LD	D D	2,570 2,570 2,570	4.7% 11.0%	188 441	- 0	- I/O	- 235	188 206	9.1%	7.3% 8.0%	- Yes	Yes Yes
Sawgrass Expressway Holmberg Road	Holmberg Road Hillsboro Boulevard	6LD 6LD	D D	2,570 2,570 2,570	6.0%	240	0	I I	128 107	112 94	5.0%	4.4%	No No	No No
Hillsboro Boulevard Banks Road	Palm Beach County Line	6LD	D	2,570	4.0%	160	0	i	85	75	3.3%	2.9%	No	No
Atlantic Boulevard Coconut Creek Parkway	Coconut Creek Parkway Copans Road	4LD 4LD	D D	1,620 1,620	0.0%	0 40	I	0	0 19	0 21	0.0% 1.2%	0.0%	No No	No No
Copans Road Sample Road	Sample Road Wiles Road	4LD 2L (NB)	D D	1,620 1,140	3.0% 8.0%	120 320	I I/O	0	56 320	64	3.5% 28.1%	3.9%	No Yes	No -
Sample Road Lyons Road	Wiles Road	2L (SB)	D	1,140	9.6%	383	-	I/O	-	383	-	33.6%	-	Yes
Atlantic Boulevard NW 6th Manor	NW 6th Manor Coconut Creek Parkway	6LD 4LD	D D	2,570 1,710	4.0%	160 160	l I	0	75 75	85 85	2.9% 4.4%	3.3% 5.0%	No No	No No
Coconut Creek Parkway Copans Road	Copans Road Sample Road	4LD 4LD	D D	1,710 1,710	7.0%	280 441	1	0	131 206	149 235	7.7% 12.0%	8.7% 13.7%	Yes Yes	Yes Yes
Sample Road Sample Road	Wiles Road Wiles Road	3LD (NB) 3LD (SB)	D D	2,790 2,790	12.3% 7.5%	493 300	I/O -	- I/O	493	300	17.7%	10.8%	Yes -	Yes
Wiles Road Sawgrass Expressway	Sawgrass Expressway Johnson Road	6LD 6LD	D D	2,790 2,790	19.0%	761 441	0	 	405 235	356 206	14.5% 8.4%	7.4%	Yes Yes	Yes
Johnson Road Hillsboro Boulevard	Hillsboro Boulevard Palm Beach County Line	6LD 6LD	D D	2,790 2,790	7.0% 5.0%	280 200	0	I	149 107	131 94	5.3% 3.8%	4.7% 3.4%	Yes No	No No
Atlantic Boulevard	Coconut Creek Parkway	6LF	D	5,530	4.0%	160	1	0	75	85	1.4%	1.5%	No No	No
Coconut Creek Parkway Sample Road	Sample Road Sawgrass Expressway	6LF	D D	5,530 5,530	4.0% 5.0%	160 200	0	0 	75 107	85 94	1.4%	1.5%	No No	No No
Sawgrass Expressway NW 31st Ave-FTPK Atlantic Boulevard	Palm Beach County Line Coconut Creek Parkway	6LF 4LD	D D	5,530 1,620	7.0%	280	0	0	149	131	0.0%	0.0%	No No	No No
Atlantic Boulevard Blount Road Copans Road	Sample Road	4LD	D	1,620	1.0%	40	1	0	19	21	1.6%	1.9%	No No	No No
SAAGUA ISUGU	Campio Noau		D	2,790	2.0%	80	<u>'</u>	0	37	43	1.5%	1.5%	No	No
Powerline Road	Coconut Creek Parkway	OLL												
Powerline Road Atlantic Boulevard Coconut Creek Parkway Copans Road	Coconut Creek Parkway Copans Road Sample Road	6LD 6LD 6LD	D D	2,790 2,790 2,790	2.0%	80	I	0	37 37	43 43	1.3%	1.5%	No No	No No
Powerline Road Atlantic Boulevard Coconut Creek Parkway	Copans Road	6LD	D	2,790	2.0%	80	 							

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Notes:

⁽¹⁾ Maximum Service Volume for LOS standard determined from 2007 Quality/Level of Service Generalized Tables published by the Florida Department of Transportation. k16f_ptx10043271000-main street cc dridn(calculate) 2(sin 2 pm.x8g21-17

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 local data is available, compare average trip lengths by purpose for the project and local jurisdiction. For the year of build out 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.

Table 21-18 summarizes the project traffic assignment, in percent, on roadway links and segments within the final study area for 2020 buildout conditions. Additionally, information related to facility type and number of lanes is included in this table. A summary roadway level of service has been determined for each of the roadway links considering total future traffic volumes at the buildout year in comparison to generalized level of service standards. Future total volumes within the final study area are shown in Figures I-8 through I-13 in Appendix 21-I.

In addition, trip interaction is expected to occur between the project site and the adjacent Commerce Center of Coconut Creek (CC) DRI. The CC DRI is located immediately southwest of the project site in the northeast quadrant of SR 7 and Sample Road. The development plan for the adjacent site includes significant retail, hotel, and office intensities along with the Seminole Tribe of Florida casino development. As a result, a portion of trips associated with the project site is expected to originate from or be destined to the CC DRI site via transit, pedestrian, bicycle, and vehicular modes. In order to estimate the interaction between the two (2) DRIs an internal capture analysis was performed based on data and procedures established in the Institute of Transportation Engineers' Trip Generation Handbook, Second Edition. The trip reduction associated with this interaction was in excess of 10 percent. As a result, a 10 percent reduction was applied to the net new external trips for the DRI as agreed to by the Florida Department of Transportation. Furthermore, mode split for each land use type was applied consistent with the DRI trip generation. A summary of this analysis is included in Appendix 21-F. The inter-DRI internal capture trips are shown in Table 21-19. The vehicular mode volumes for each land use are included as part of the driveway trip assignment presented in Appendices 21-B and 21-I.

Table 21-18 PM Peak Hour Link Analysis

Road	lway	Committed	Adopted-	Maximum-		Project Traffic		Exis	sting	Area-Wide		nd Growth	Committe	ed Traffic	1/2 Gro	wth Rate		Traffic + 1/2	2020 Backs	ground Traffic	Adjusted Backs	ground Volume ⁽²⁾		Peak Hour	2020 V	/C Ratio	2020 Level	l of Service
		Number of Lanes	LOS	Directional Volume	% Assignment	NB/EB Project	SB/WB Project	PM Peak	Volumes	Average Growth Rate	(Area Gro	owth Kate)					Grown	n Kate					VOI	ume				
From	To	Lunes		Volume	70 7 toolgimione	Trips	Trips	NB/EB	SB/WB	O. O. W. L. T. Kulo	NB/EB	SB/WB	NB / EB	SB/WB	NB / EB	SB / WB	NB/EB	SB / WB	NB/EB	SB / WB	NB / EB	SB / WB	NB/EB	SB / WB	NB / EB	SB / WB	NB/EB	SB / WB
Sample Road																												
Riverside Drive	Rock Island Road	6LD	₽	2,570	9%	165	189	1,966	2,360	1.3%	368	442	455	395	173	207	628	602	2,594	2,962	2,594	2,962	2,759	3,151	1.07	1.23	F	F
Rock Island Road	SR-7	6LD	₽	2,570	11%	202	231	1,514	2,370	1.3%	28 4	444	374	355	133	208	507	563	2,021	2,933	1,922	2,766	2,124	2,997	0.83	1.17	Đ	F
SR 7	Banks Road	3LD (EB)	Đ	2,570	5%	193	-	3,451	-	1.3%	647	-	357	-	303	-	660	-	4,111	-	3,910	-	4,103	-	1.60	-	F	- 1
SR 7	Banks Road	3 LD (WB)	Đ	2,570	7%	-	271	-	2,246	1.3%	-	421	-	399	-	197	-	596	-	2,842	-	2,680	-	2,951	-	1.15	-	F
Banks Road	Lyons Road	3LD (EB)	Đ	2,570	10%	377	-	3,451	-	1.3%	647	-	339	-	303	-	642	-	4,098	-	3,897	-	4,274	-	1.66	-	F	
Banks Road	Lyons Road	3LD (WB)	Đ	2,570	7%	-	287	-	2,246	1.3%	-	421	-	378	-	197	-	575	-	2,821		2,660	-	2,947	-	1.15		E
Lyons Road	Florida's Turnpike	6LD	Đ	2,570	7%	151	132	3,336	1,713	1.3%	625	321	360	270	293	151	653	421	3,989	2,134	3,742	1,981	3,893	2,113	1.51	0.82	E	Ð
Wiles Road																												
SR-7	Lyons Road	2LD (EB)	Ð	1,860	3%	126	-	691	-	1.3%	129	-	4 2	-	61	-	103	-	820	-	860	-	986	-	0.53	-	₽	
SR 7	Lyons Road	2LD (WB)	₽	1,860	6%	-	236	-	1,008	1.3%	-	189	-	51	-	89	-	140	-	1,197	-	1,265	-	1,501	-	0.81	-	₽
Lyons Road	Powerline Road	4LD	₽	1,860	9%	189	165	477	301	1.3%	89	56	70	49	42	26	112	75			1459 ⁽¹⁾	1838 ⁽¹⁾	1,648	2,003	0.89	1.08	E	F
Turtle Creek Drive/Cullum Roa	id																											
SR-7	Lyons Road	2L(EB)	₽	1,140	5%	187	-	146	-	1.3%	27	-	248	-	13	-	261	-			1356 ⁽¹⁾	-	1,543	-	1.35	-	F	-
SR 7	Lyons Road	2L (WB)	Đ	1,140	6%	-	232	-	210	1.3%	-	39		358	-	18	-	376			0	1076⁽¹⁾	-	1,308	-	1.15	-	E
SR 7																												
Sample Road	Wiles Road	3LD (NB)	Đ	2,570	6%	244		2,278		1.3%	4 <u>27</u>	-	189	-	200	-	389		2,705		2,838	-	3,082	-	1.20	-	E	
Sample Road	Wiles Road	3LD (SB)	Đ	2,570	5%	-	185	-	2,100	1.3%	-	394	-	234	-	185	-	419	-	2,519		2,662	-	2,847	-	1.11		E
Wiles Road	Sawgrass Expressway	6LD	Ð	2,570	11%	231	202	2,033	2,649	1.3%	381	496	202	147	179	233	381	380	2,414	3,145	2,414	3,145	2,645	3,347	1.03	1.30	E	E
Banks Road																												
Sample Road	Wiles Road	2L (NB)	Ð	1,140	8%	314	-	46	-	1.3%	9	-	32	-	4	-	36	-			470 ⁽¹⁾	-	784	-	0.69	-	Ð	-
Sample Road	Wiles Road	2L (SB)	Ð	1,140	10%	-	376	-	51	1.3%	-	10	-	25	-	4	-	29			-	592 ⁽¹⁾	-	968	-	0.85	-	Ð
Lyons Road																												
Coconut Creek Parkway	Copans Road	4LD	Ð	1,710	7%	128	147	1,943	1,543	1.3%	364	289	90	107	171	136	261	243	2,307	1,832	2,307	1,832	2,435	1,979	1.42	1.16	F	F
Copans Road	Sample Road	4LD	Đ	1,710	11%	202	231	1,891	1,425	1.3%	354	267	141	186	166	125	307	311	2,245	1,736	2,245	1,736	2,447	1,967	1.43	1.15	F	F
Sample Road	Wiles Road	3LD (NB)	Đ	2,570	12%	483	-	2,266	-	1.3%	425	-	279	-	199	-	478	-	2,744	-	2,744	-	3,227	-	1.26	-	E	└
Sample Road	Wiles Road	3LD (SB)	Đ	2,570	8%	-	295	-	1,706	1.3%	-	320	-	257	-	150	-	407	-	2,113	-	2,113	-	2,408	-	0.94	-	Đ
Wiles Road	Sawgrass Expressway	6LD	Đ	2,570	19%	398	348	1,641	2,528	1.3%	308	474	175	4 56	144	222	319	378	1,960	3,003	1,960	3,003	2,358	3,351	0.92	1.30	₽	E
Sawgrass Expressway	Johnson Road	6LD	Đ	2,570	11%	23 1	202	1,713	2,326	1.3%	321	436	109	107	151	204	260	311	2,034	2,762	2,034	2,762	2,265	2,964	0.88	1.15	₽	E
Johnson Road	Hillsboro Boulevard	6LD	Ð	2,570	7%	147	128	1,866	2,407	1.3%	350	451	113	85	164	212	277	297	2,216	2,858	2,216	2,858	2,363	2,986	0.92	1.16	Ð	E

(Page 21-24 revised September 2009 SIN 1)

(1) Background volumes taken from 2020 SERPM Model.

Background volumes include adjustment for extension of Wiles Road.

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Question 21 – Transportation

Table 21-18 PM Peak Hour Link Analysis

Roady	way	Committed Number of	Adopted	Maximum Directional		Project Traffic		Exis		Area-Wide Average	Backgrou (Area Gro	nd Growth	Committ	ted Traffic	1/2 Gro	wth Rate		Traffic + 1/2 th Rate	2020 Back	ground Traffic	Adjusted Back	ground Volume ⁽²⁾		l Peak Hour lume	2020 \	V/C Ratio	2020 Level	of Service
From	То	Lanes	LOS	Volume	% Assignment	NB/EB Project Trips	SB/WB Project Trips	NB/EB	Volumes SB/WB	Growth Rate	NB / EB	SB/WB	NB/EB	SB/WB	NB/EB	SB / WB	NB / EB	SB / WB	NB/EB	SB / WB	NB / EB	SB/WB	NB/EB	SB / WB	NB / EB	SB/WB	NB / EB	SB / WB
	10			<u> </u>		,		NB/EB	3B/WB	<u> </u>	ND/EB	36/WB	NB/EB	36/WB	ND/ED	36 / WB	ND/ED	3B/WB	ND/ED	3D/WD	NB/EB	3B/WB	NB/EB	3B/WB	ND / ED	3B/WB	NB/EB	3B/WB
Sample Road	I=		_																				1					
Riverside Drive	Rock Island Road	6LD	D	2,570	9%	169	192	1,966	2,360	1.3%	368	442	455	395	173	207	628	602	2,594	2,962	2,594	2,962	2,763	3,154	1.07	1.23		╙╌
Rock Island Road	SR 7	6LD	D	2,570	11%	206	235	1,514	2,370	1.3%	284	444	374	355	133	208	507	563	2,021	2,933	1,922	2,766	2,128	3,001	0.83	1.17	D	
SR 7	Banks Road	3LD (EB)	D	2,570	5%	196	-	3,451	-	1.3%	647	-	357	-	303	-	660	-	4,111	-	3,910	-	4,106	-	1.60	<u> </u>	F	لـــنـــا
SR 7	Banks Road	3 LD (WB)	D	2,570	7%	-	276	-	2,246	1.3%	-	421	-	399	-	197	-	596	-	2,842	-	2,680	-	2,956	-	1.15	-	F
Banks Road	Lyons Road	3LD (EB)	D	2,570	10%	384	-	3,451	-	1.3%	647	-	339	-	303	-	642	-	4,098	-	3,897	-	4,281	-	1.67	-	F	<u> </u>
Banks Road	Lyons Road	3LD (WB)	D	2,570	7%	-	292	-	2,246	1.3%		421	-	378	-	197	-	575	-	2,821	-	2,660	-	2,952	-	1.15		F
Lyons Road	Florida's Turnpike	6LD	D	2,570	15%	154	135	3,336	1,713	1.3%	625	321	360	270	293	151	653	421	3,989	2,134	3,742	1,981	3,896	2,116	1.52	0.82	F	D
Wiles Road																												
SR 7	Lyons Road	2LD (EB)	D	1,860	3%	128	-	691	-	1.3%	129	-	42	-	61	-	103	-	820	-	860	-	988	-	0.53	'	В	
SR 7	Lyons Road	2LD (WB)	D	1,620	6%	-	240	-	1,008	1.3%	-	189	-	51	-	89	-	140	-	1,197	-	1,265	-	1,505	-	0.93	<u> </u>	В
Lyons Road	Powerline Road	4LD	D	1,620	9%	192	169	477	301	1.3%	89	56	70	49	42	26	112	75			1459 ⁽¹⁾	1838 ⁽¹⁾	1,651	2,007	1.02	1.24	С	F
Turtle Creek Drive/Cullum Road	d																											
SR 7	Lyons Road	2L(EB)	D	1,140	5%	190	-	146	-	1.3%	27	-	248	-	13	-	261	-			1356 ⁽¹⁾	-	1,546	-	1.36	-	F	-
SR 7	Lyons Road	2L (WB)	D	1,140	6%	-	236	-	210	1.3%	-	39		358	-	18	-	376			0	1076 ⁽¹⁾	-	1,312	-	1.15		E
SR 7																												
Sample Road	Wiles Road	3LD (NB)	D	2,570	6%	248	-	2,278	-	1.3%	427	-	189	-	200	-	389	-	2,705	-	2,838	-	3,086	-	1.20	-	F	-
Sample Road	Wiles Road	3LD (SB)	D	2,570	5%	-	188	-	2,100	1.3%	-	394	-	234	-	185	-	419	-	2,519	-	2,662	-	2,850	-	1.11		F
Wiles Road	Sawgrass Expressway	6LD	D	2,570	11%	235	206	2,033	2,649	1.3%	381	496	202	147	179	233	381	380	2,414	3,145	2,414	3,145	2,649	3,351	1.03	1.30	Е	F
Banks Road																												
Sample Road	Wiles Road	2L (NB)	D	1,140	8%	320	-	46	-	1.3%	9	-	32	-	4	-	36	-			470 ⁽¹⁾	-	790	-	0.69	-	D	-
Sample Road	Wiles Road	2L (SB)	D	1,140	10%	-	383		51	1.3%	-	10	-	25	-	4	-	29			-	592 ⁽¹⁾	-	975	-	0.86	- 1	D
Lvons Road		· · · ·																	_									
Coconut Creek Parkway	Copans Road	4LD	D	1,710	7%	131	149	1.943	1.543	1.3%	364	289	90	107	171	136	261	243	2.307	1.832	2.307	1.832	2.438	1.981	1.43	1.16	F !	F
Copans Road	Sample Road	4LD	D	1,710	11%	206	235	1.891	1,425	1.3%	354	267	141	186	166	125	307	311	2,245	1.736	2,245	1,736	2,451	1,971	1,43	1.15	F	F
Sample Road	Wiles Road	3LD (NB)	D	2,570	12%	493	-	2,266	-	1.3%	425	-	279	-	199	-	478	-	2,744		2,744	-	3,237	-	1.26	1 -	F	-
Sample Road	Wiles Road	3LD (SB)	D	2,570	8%	-	300	-	1.706	1.3%	i -	320	-	257	-	150	-	407	_	2.113	-	2.113		2.413	-	0.94	_ · /	D
Wiles Road	Sawgrass Expressway	6LD	D	2,570	19%	405	356	1.641	2,529	1.3%	308	474	175	156	144	222	319	378	1.960	3.003	1,960	3,003	2.365	3,359	0.92	1.31	D	F
Sawgrass Expressway	Johnson Road	6LD	D	2,570	11%	235	206	1.713	2,326	1.3%	321	436	109	107	151	204	260	311	2.034	2,762	2.034	2,762	2,269	2,968	0.88	1.15	D	F
Johnson Road	Hillsboro Boulevard	6LD	D	2,570	7%	149	131	1.866	2,407	1.3%	350	451	113	85	164	212	277	297	2,216	2,858	2,216	2,858	2,365	2,989	0.92	1.16	D	F

(Page 21-28 revised November 2009 SIN 2)
Notes:

Background volumes taken from 2020 SERPM Model.
 Background volumes include adjustment for extension of Wiles Road.

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	Table 21-19			
	Inter-DRI Trip Assignmer			
Land Use	Mode of Travel	P.A	A. Peak Ho	our
Lana Occ	inoue or muter	Enter	Exit	Total
Docidontial	Vehicular Mode (9%)	42	26	68
Residential	Transit/Non-Vehicular Mode (1%)	5	3	8
Retail	Vehicular Mode (9.5%)	121	132	253
Ketan	Transit/Non-Vehicular Mode (0.5%)	6	7	13
Office	Vehicular Mode (9%)	8	39	47
Omce	Transit/Non-Vehicular Mode (1%)	1	4	5
Total	Vehicular Mode	171	197	368
Total	Transit/Non Vehicular Mode	12	14	26
		183	211	394

Table 21-19 Inter-DRI Trip Assignment								
Land Use	Mode of Travel	P.N	1. Peak Ho	our				
Land Use	iviode of Travel	Enter	Exit	Total				
Posidontial	Vehicular Mode (9%)	45	27	72				
Residential	Transit/Non-Vehicular Mode (1%)	5	3	8				
Dotoil	Vehicular Mode (9.5%)	149	163	312				
Retail	Transit/Non-Vehicular Mode (0.5%)	8	8	16				
Office	Vehicular Mode (9%)	8	40	48				
Office	Transit/Non-Vehicular Mode (1%)	1	4	5				
Total	Vehicular Mode	202	230	432				
Total	Transit/Non-Vehicular Mode	14	15	29				
		216	245	461				

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Additionally, the study intersections in this corridor were analyzed for total future traffic volumes as agreed upon in the study methodology. Table 21-20 summarizes the result of these analyses for 2020 buildout conditions. The intersection analysis worksheets for both 2020 non-project and total conditions are included in Appendices 21-J and 21-K, respectively.

Table 21-20 Buildout PM Peak Hour tion and Approach Level of Service

	Non-Project					W	ith Projec	at				
Intersection	Intersection	Intersection			ach LOS		Intersection	Intersection			ach LOS	
	LOS	Delay (sec.)	EB	WB	NB	SB	LOS	Delay (sec.)	EB	WB	NB	SB
Sample Rd and Riverside Dr	F	88.8	F	£	E	E	F	100.5	F	E	Ē	E
Sample Rd and Holiday Springs Blvd	Ð	47.0	₽	E	E	E	E	58.6	c	F	E	E
Sample Rd and Rock Island Rd	Ð	45.3	Q	C	E	E	Ð	51.7	E	Q	E	E
Sample Rd and Turtle Run Blvd	c	33.9	₿	Ð	c	c	Ф	52.3	₽	F	c	c
Sample Rd and NW 62nd Ave/Turtle Creek Dr	Ð	41.8	£	£	F	E	Ф	45.1	e	Ð	₽	E
Sample Rd and SR 7	€	22.0	₽	€	N/A	N/A	e	25.6	₽	e	N/A	N/A
Sample Rd and NW 54th Ave (4)	E	56.9	£	£	Ð	F	D <u>E</u>	37.4 122.8	D	<u>E</u>	€ <u>€</u>	Đ <u>E</u>
Sample Rd and Banks Rd ⁽⁴⁾	(1)	(1)	C ⁽²⁾	E ⁽²⁾	£	c	C	24.7	c	B	E	F
Sample Rd and Lyons Rd	F	115.8	Đ	Đ	F	F	F	146.8	E	Đ	F	F
Sample Rd and NW 42nd Ave	Ð	51.9	₽	E	Ð	Ð	E	73.3	e	F	Ð	Ð
Sample Rd and Tradewinds Park Rd	₽	12.1	₿	A	E	E	₽	18.0	c	В	E	E
Sample Rd and Florida's Turnpike	E	58.1	F	Đ	Đ	N/A	E	74.4	F	Đ	E	N/A
NW 40th St and NW 54th Ave	(1)	(1)	F	Ð	A ⁽²⁾	A ⁽²⁾	(1)	(1)	F	F	A(2)	A ⁽²⁾
							₽	<u>37.4</u>	₽	<u>E</u>	<u>C</u>	<u>D</u>
Wiles Rd and SR 7	F	100.4	Ð	F	F	F	F	131.0	Đ	F	F	F
Wiles Rd and Banks Rd ⁽⁴⁾	+	(1)	(3)	B ⁽²⁾	Ð	N/A	€	27.1	A	e	E	N/A
Wiles Rd and Lyons Rd	E E	97.3	E	E E	F	E	E E	142.1	E	E E	E E	E
	<u>F</u>	102.4 289.5	<u>E</u> ₽	<u>F</u>	<u>∓</u> Đ	<u>∓</u> Đ	<u>F</u>	148.2 333.0	<u> </u>	E F	<u>∓</u> Đ	<u>₽</u> Đ
Wiles Rd and Powerline Rd	<u>E</u>	313.4	<u>F</u>	<u> </u>	₽	₽	<u>E</u>	358.5	<u>E</u>	<u> </u>	₽	Ð
NW 31st St and SR 7	<u>4</u>	46.1	E	E	£	E	<u>4</u>	50.4	E	E	£	E
NW 40th St and SR 7	(1)	(1)	N/A	£	(3)	(3)	(1)	(1)	N/A	E	(3)	(3)
Cullum Rd/Turtle Creek Dr and SR 7	e	26.4	F	Ð	₽	₽	e	30.9	F	E	€	₽
Winston Park Blvd and SR 7	c	34.9	E	F	c	c	c	39.4	E	F	Ð	c
Sawgrass Expressway (NB) and SR 7	A	3.3	N/A	N/A	A	A	A	3.5	N/A	N/A	A	A
Sawgrass Expressway (SB) and SR 7	A	4.2	N/A	N/A	A	A	A	4.8	N/A	N/A	A	A
Coconut Creek Pkwy and Lyons Rd	F	99.2	Ð	£	£	E	F	109.3	Ð	£	£	£
Lyons Plaza and Lyons Rd	₽	13.4	E	N/A	₽	A	₽	14.7	E	N/A	₽	A
Wynmoor Way and Lyons Rd	c	21.0	E	E	£	A	c	23.4	E	E	e	B
Copans Rd and Lyons Rd	£	100.5	Ð	Ē	F	E	<u>F</u>	120.1	Ð	F	F	F
NW 34th St and Lyons Rd	₽	13.9	E	E	A	₽	₽	18.7	E	E	₽	e
Winston Park Blvd and Lyons Rd	E	61.0	E	E	Đ	E	F	104.4	E	E	F	<u>E</u>
Sawgrass Expressway (NB) and Lyons Rd (NB)	#-	56.3	A	N/A	£	F	Ð	54.7	A	N/A	e	F
Sawgrass Expressway (NB) and Lyons Rd (SB)		18.3	Đ	N/A	N/A	₽	e	23.4	Đ	N/A	N/A	e
Sawgrass Expressway (SB) and Lyons Rd (NB)	F	25.3	N/A	E	В	N/A	c	28.3	N/A	E	В	N/A
Sawgrass Expressway (SB) and Lyons Rd (SB)	e	21.3	N/A	A	E	€	e	24.4	N/A	B	E	e
Sawgrass Boulevard and Lyons Road	Ð	49.1	£	c	В	E	E	66.9	c	e	В	F
Holmberg Rd and Lyons Rd	Ð	50.7	£	£	c	E	E	65.1	c	c	c	£
Hillsboro Blvd and Lyons Rd	E	65.7	E	F	Ð	Đ	E	67.6	E	F	Đ	Đ

	With Project							
Intersection	Intersection	Intersection	Approach LOS					
	LOS	Delay (sec.)	EB	WB	NB	SB		
Cullum Road and Lyons Road	A	6.5 6.6	E	E	A	A		
Jardin Driveway and Lyons Road	A	3.4	E	N/A	A	A		
Uptown Driveway and Lyons Road	c	34.0	E	N/A	Đ	₿		
Fisherman's Landing Driveway and Lyons Road	C	21.4	A	£	N/A	F		
Cullum Road and NW 54th Avenue	(1)	(1)	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾		
Cullum Road and Banks Road	(1)	(1)	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾		

Table 21-20 Buildout PM Peak Hour Intersection and Approach Level of Service

	Non-Project			With Project								
Intersection	Intersection	Intersection	ŀ		ach LOS	CD	Intersection	Intersection			ach LOS	CD.
	LOS	Delay (sec.)	EB	WB	NB	SB	LOS	Delay (sec.)	EB	WB	NB	SB
Sample Rd and Riverside Dr	F	88.8	F	F	E _	E _	F	100.6	F	F	Ε _	E _
Sample Rd and Holiday Springs Blvd	D	47.0	В	E	E _	E _	E	58.9	C	F	E	E
Sample Rd and Rock Island Rd	D	45.3	D	С	E	E	D	52.0	E	D	E	E
Sample Rd and Turtle Run Blvd	С	33.9	В	D	С	С	D	52.8	В	F	С	С
Sample Rd and NW 62nd Ave/Turtle Creek Dr	D	41.8	С	С	F	Е	D	45.3	С	D	F	E
Sample Rd and SR 7	С	22.0	В	С	N/A	N/A	С	25.6	В	С	N/A	N/A
Sample Rd and NW 54th Ave ⁽⁴⁾	E	56.9	С	С	D	F	F	123.1	D	С	Е	F
Sample Rd and Banks Rd ⁽⁴⁾	(1)	(1)	C ⁽²⁾	E ⁽²⁾	С	С	С	24.6	С	В	Е	F
Sample Rd and Lyons Rd	F	115.8	D	D	F	F	F	146.8	Е	D	F	F
Sample Rd and NW 42nd Ave	D	51.9	В	E	D	D	E	74.4	С	F	D	D
Sample Rd and Tradewinds Park Rd	В	12.1	В	Α	Е	Е	В	18.3	С	В	Е	E
Sample Rd and Florida's Turnpike	E	58.1	F	D	D	N/A	Е	74.8	F	D	Е	N/A
NW 40th St and NW 54th Ave	(1)	(1)	F	D	A ⁽²⁾	A ⁽²⁾	D	39.0	D	Е	С	D
Wiles Rd and SR 7	F	100.4	D	F	F	F	F	131.8	D	F	F	F
Wiles Rd and Banks Rd ⁽⁴⁾	(1)	(1)	(3)	B ⁽²⁾	D	N/A	С	28.0	Α	С	Е	N/A
Wiles Rd and Lyons Rd	F	102.4	Е	F	F	Е	F	149.2	F	F	F	F
Wiles Rd and Powerline Rd	F	313.4	F	F	D	D	E	358.9	F	F	D	D
NW 31st St and SR 7	D	46.1	Е	E	С	Е	D	50.4	Е	Е	С	Е
NW 40th St and SR 7	(1)	(1)	N/A	С	(3)	(3)	(1)	(1)	N/A	Е	(3)	(3)
Cullum Rd/Turtle Creek Dr and SR 7	С	26.4	F	D	В	В	С	32.3	F	Е	С	С
Winston Park Blvd and SR 7	С	34.9	Е	F	С	С	С	39.6	Е	F	D	С
Sawgrass Expressway (NB) and SR 7	А	3.3	N/A	N/A	А	Α	Α	3.5	N/A	N/A	Α	Α
Sawgrass Expressway (SB) and SR 7	А	4.2	N/A	N/A	А	Α	Α	4.8	N/A	N/A	Α	Α
Coconut Creek Pkwy and Lyons Rd	F	99.2	D	F	F	Е	F	109.6	D	F	F	F
Lyons Plaza and Lyons Rd	В	13.4	Е	N/A	В	Α	В	14.7	Е	N/A	В	Α
Wynmoor Way and Lyons Rd	С	21.0	Е	Е	С	Α	С	23.4	Е	Е	С	В
Copans Rd and Lyons Rd	F	100.5	D	F	F	Е	F	120.5	D	F	F	F
NW 34th St and Lyons Rd	В	13.9	Е	Е	А	В	В	18.8	Е	Е	В	С
Winston Park Blvd and Lyons Rd	E	61.0	Е	E	D	Е	F	105.4	Е	Е	F	F
Sawgrass Expressway (NB) and Lyons Rd (NB)	E	56.3	Α	N/A	С	F	D	54.6	Α	N/A	С	F
Sawgrass Expressway (NB) and Lyons Rd (SB)	В	18.3	D	N/A	N/A	В	С	23.5	D	N/A	N/A	С
Sawgrass Expressway (SB) and Lyons Rd (NB)	С	25.3	N/A	Е	В	N/A	С	28.4	N/A	Е	В	N/A
Sawgrass Expressway (SB) and Lyons Rd (SB)	С	21.3	N/A	Α	Е	С	С	24.5	N/A	В	Е	С
Sawgrass Boulevard and Lyons Road	D	49.1	С	С	В	Е	E	67.3	С	С	В	F
Holmberg Rd and Lyons Rd	D	50.7	С	С	С	Е	E	66.2	С	С	D	F
Hillsboro Blvd and Lyons Rd	E	65.7	Е	F	D	D	Е	67.7	Е	F	D	D

Project Access Locations

	With Project						
Intersection	Intersection	Intersection	Approach LOS				
	LOS	Delay (sec.)	ЕВ	WB	NB	SB	
Cullum Road and Lyons Road	Α	6.4	Е	Е	Α	Α	
Jardin Driveway and Lyons Road	Α	3.5	E	N/A	Α	Α	
Uptown Driveway and Lyons Road	С	34.3	Е	N/A	D	В	
Fisherman's Landing Driveway and Lyons Road	С	21.6	Α	С	N/A	F	
Cullum Road and NW 54th Avenue	(1)	(1)	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	
Cullum Road and Banks Road	(1)	(1)	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	B ⁽⁵⁾	

⁽Page 21-30 revised November 2009 SIN 2)
Notes:

(P) Overall LOS at two-way stop controlled intersections, one way stop-controlled intersections, or traffic circles is not defined.

(a) Approach reflects the left-turn movement only, the through movement operates under free-flow conditions.

(b) Approach operates under free-flow conditions. LOS is not defined.

(c) Proposed signalization with project.

(d) LOS presented is worse LOS on each leg of traffic circle.

Additionally, a detailed analysis of the limited access ramps on significant roadways was prepared. The summary of the results are provided in Table 21-21. The project is not anticipated to be significant on any limited access ramps. Furthermore, all analyzed ramps are expected to meet adopted level of service standards.

Table 21-21
Limited Access Ramp Significance Analysis
Intersection Level of Service - With Improvements

Intersection	Project Traffic	Significant (1)	Future Total Volume	Capacity
Sawgrass Expressway (NB on-ramp) and SR 7	42	No	458	1,761
Sawgrass Expressway (NB off ramp) and SR 7 (NB)	0	No	688	1,761
Sawgrass Expressway (NB off-ramp) and SR 7 (SB)	37	No	233	1,761
Sawgrass Expressway (SB off-ramp) and SR 7 (NB)	0	No	332	1,761
Sawgrass Expressway (SB off ramp) and SR 7 (SB)	37	No	397	1,761
Sawgrass Expressway (SB on-ramp) and SR 7	42	No	830	1,761
Sawgrass Expressway (NB) and Lyons Rd (NB)	126	No	683	1,761
Sawgrass Expressway (NB) and Lyons Rd (SB)	0	No	513	1,761
Sawgrass Expressway (SB) and Lyons Rd (NB)	110	No	783	1,761
Sawgrass Expressway (SB) and Lyons Rd (SB)	0	No	584	1,761
Turnpike Ramp (NB on-ramp) and Sample Road	189	No	2,152	3,244
Turnpike Ramp (NB off-ramp) and Sample Road	165	No	1,515	3,244

(Page 21-27 revised September 2009 SIN 1)

⁽i) Project traffic volumes on limited access facility ramps are determined to exceed 200 directional trips per lane.

Table 21-21 Limited Access Ramp Significance Analysis

Intersection	Project Traffic	Significant ⁽¹⁾	Future Total Volume	Capacity
Sawgrass Expressway (NB on-ramp) and SR 7	43	No	458	1,761
Sawgrass Expressway (NB off-ramp) and SR 7 (NB)	0	No	688	1,761
Sawgrass Expressway (NB off-ramp) and SR 7 (SB)	37	No	233	1,761
Sawgrass Expressway (SB off-ramp) and SR 7 (NB)	0	No	332	1,761
Sawgrass Expressway (SB off-ramp) and SR 7 (SB)	37	No	397	1,761
Sawgrass Expressway (SB on-ramp) and SR 7	43	No	830	1,761
Sawgrass Expressway (NB) and Lyons Rd (NB)	128	No	683	1,761
Sawgrass Expressway (NB) and Lyons Rd (SB)	0	No	513	1,761
Sawgrass Expressway (SB) and Lyons Rd (NB)	112	No	783	1,761
Sawgrass Expressway (SB) and Lyons Rd (SB)	0	No	584	1,761
Turnpike Ramp (on-ramp) and Sample Road	192	No	2,152	3,244
Turnpike Ramp (off-ramp) and Sample Road	169	No	1,515	3,244

(Page 21-31 revised November 2009 SIN 2)

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.

For the intersections that were evaluated, all of the intersections that are projected to not meet level of service standards (i.e., those intersections that will be at LOS E or F), with the exception of Sample Road & Holiday Springs Boulevard, Sample Road & NW 42nd Avenue, Sawgrass Boulevard & Lyons Road, Holmberg Road & Lyons Road, are expected to be at LOS E or F without this project. Several of these deficiencies can be resolved with optimized signal timing. However, several mitigation measures have been identified to maintain intersection operation at an acceptable level of service. Table 21-22 summarizes recommended intersection improvements to achieve adopted level of service standards. Note that signal timings were optimized throughout the study area. Table 21-23 summarizes the intersection level of service within the study area after recommended improvements. Relevant data is included in Appendix 21-L.

⁽¹⁾ Project traffic volumes on limited access facility ramps are determined to exceed 200 directional trips per lane.

Table 21-23
Buildout PM Peak Hour
Intersection Level of Service - With Improvements

Intersection	Intersection LOS	Intersection Delay (sec.)
Sample Rd and Riverside Dr	Đ	52.9
Sample Rd and Holiday Springs Blvd	Ð	54.5
Sample Rd and Rock Island Rd	Ð	48.5
Sample Rd and Turtle Run Blvd	Ð	52.3
Sample Rd and NW 62nd Ave/Turtle Creek Dr	Ð	45.1
Sample Rd and SR 7	E	25.6
Sample Rd and NW 54th Ave	Đ	54.9
Sample Rd and Banks Rd	E	25.6
Sample Rd and Lyons Rd	Đ	47.5
Sample Rd and NW 42nd Ave	₽	17.5
Sample Rd and Tradewinds Park Rd	B	19.4
Sample Rd and Florida's Turnpike	Ð	49.1
NW 40th Street and NW 54th Avenue	Ð	37.4
Wiles Rd and SR 7	Ð	54.7
Wiles Rd and Banks Rd	E	29.4
Wiles Rd and Lyons Rd	Ð	52.9
•	<u>Ð</u> Ð	<u>54.1</u> 54.8
Wiles Rd and Powerline Rd	<u>Đ</u>	55.0
NW 31st St and SR 7	Ð	51.5
NW 40th St and SR 7	(1)	(1)
Cullum Rd/Turtle Creek Dr and SR 7	-C	32.7
Winston Park Blvd and SR 7	Ð	39.4
Sawgrass Expressway (NB) and SR 7	A	3.5
Sawgrass Expressway (SB) and SR 7	A	4.8
Coconut Creek Pkwy and Lyons Rd	Đ	54.9
Lyons Plaza and Lyons Rd	₽	15.0
Wynmoor Way and Lyons Rd	€	24.2
Copans Rd and Lyons Rd	Đ	51.9
NW 34th St and Lyons Rd	B	16.1
Winston Park Blvd and Lyons Rd	Ð	54.3
Sawgrass Expressway (NB) and Lyons Rd (NB)	Ð	37.9
Sawgrass Expressway (NB) and Lyons Rd (SB)	£	21.9
Sawgrass Expressway (SB) and Lyons Rd (NB)	£	34.3
Sawgrass Expressway (SB) and Lyons Rd (SB)	£	23.7
Sawgrass Boulevard and Lyons Road	Ð	54.1
Holmberg Rd and Lyons Rd	Ð	52.7
Hillsboro Blvd and Lyons Rd	<u>Ð</u>	<u>54.8</u>

(Page 21-29 revised September 2009 SIN 1)

(1) Overall LOS at two-way stop controlled intersections, one way stop-controlled intersections, or traffic circles is not defined.

Table 21-23
Buildout PM Peak Hour
Intersection Level of Service - With Improvements

Intersection	Intersection LOS	Intersection Delay (sec.)
Sample Rd and Riverside Dr	D	52.9
Sample Rd and Holiday Springs Blvd	D	54.5
Sample Rd and Rock Island Rd	D	48.6
Sample Rd and Turtle Run Blvd	D	52.8
Sample Rd and NW 62nd Ave/Turtle Creek Dr	D	45.3
Sample Rd and SR 7	С	25.7
Sample Rd and NW 54th Ave	D	54.9
Sample Rd and Banks Rd	С	25.5
Sample Rd and Lyons Rd	D	47.5
Sample Rd and NW 42nd Ave	В	17.6
Sample Rd and Tradewinds Park Rd	В	19.8
Sample Rd and Florida's Turnpike	D	49.2
NW 40th Street and NW 54th Avenue	D	39.0
Wiles Rd and SR 7	D	54.8
Wiles Rd and Banks Rd	С	29.9
Wiles Rd and Lyons Rd	D	54.2
Wiles Rd and Powerline Rd	D	55.0
NW 31st St and SR 7	D	51.6
NW 40th St and SR 7	<u>(1)</u>	<u>(1)</u>
Cullum Rd/Turtle Creek Dr and SR 7	С	34.3
Winston Park Blvd and SR 7	D	39.6
Sawgrass Expressway (NB) and SR 7	А	3.5
Sawgrass Expressway (SB) and SR 7	А	4.8
Coconut Creek Pkwy and Lyons Rd	D	55.0
Lyons Plaza and Lyons Rd	В	15.2
Wynmoor Way and Lyons Rd	С	24.4
Copans Rd and Lyons Rd	D	51.9
NW 34th St and Lyons Rd	В	16.2
Winston Park Blvd and Lyons Rd	D	54.4
Sawgrass Expressway (NB) and Lyons Rd (NB)	D	37.9
Sawgrass Expressway (NB) and Lyons Rd (SB)	С	21.9
Sawgrass Expressway (SB) and Lyons Rd (NB)	С	34.3
Sawgrass Expressway (SB) and Lyons Rd (SB)	С	23.7
Sawgrass Boulevard and Lyons Road	D	54.4
Holmberg Rd and Lyons Rd	D	53.0
Hillsboro Blvd and Lyons Rd	D	54.9

(Page 21-33 revised November 2009 SIN 2)

(1) Overall LOS at two-way stop controlled intersections, one way stop-controlled intersections, or traffic circles is not defined.

Some of the significantly impacted roadway segments in Table 21-18 were shown to exceed the generalized level of service standards published by the Florida Department of Transportation in its 2007Generalized Quality/Level of Service Tables. These generalized level of service tables do not take into account the specific operating characteristics of these roadways that affect the actual level of service on these roadway facilities. Therefore, to evaluate actual level of service conditions on the roadway segments that are projected to operate at LOS E or F when compared to the generalized LOS tables, a detailed arterial analysis was performed for these roadway segments. These analyses were performed taking into account the intersection improvements identified previously in order to determine whether or not the roadways are anticipated to operate at an acceptable level of service.

Arterial analysis worksheets provided using Synchro are included in Appendix 21-M. Table 21-24 summarizes the overall results of the analyses performed for each of the arterial segments.

Table 21-24						
Arterial Level of Se	rvice With Im	provements				
Arterial Segment	Direction	Arterial Speed	Level of			
Arterial Segment	Direction	(mph)	Service			
Lyons Road from Coconut Creek	NB	18.5	Ð			
Parkway to Hillsboro Boulevard	SB	18.0	Ð			
SR 7 from NW 31 st -Street to	NB	26.6	Ð			
Sawgrass Expressway	SB	22.5	Đ			
Sample Road from Riverside	EB	20.7	Ф			
Drive to Florida's Turnpike	₩B	17.7	Ð			
Wiles Road from SR 7 to	EB	24.4	E			
Powerline Road	₩B	23.8	C			

<u>Table 21-24</u>						
Arterial Level of Se	rvice With Im	provements				
Artarial Cogmont	Direction	Arterial Speed	<u>Level of</u>			
Arterial Segment	Direction	<u>(mph)</u>	<u>Service</u>			
Lyons Road from Coconut Creek	<u>NB</u>	<u>18.4</u>	<u>D</u>			
Parkway to Hillsboro Boulevard	<u>SB</u>	<u>18.0</u>	<u>D</u>			
SR 7 from NW 31 st Street to	<u>NB</u>	<u>26.6</u>	<u>D</u>			
Sawgrass Expressway	<u>SB</u>	<u>22.5</u>	<u>D</u>			
Sample Road from Riverside	<u>EB</u>	<u>20.7</u>	<u>D</u>			
<u>Drive to Florida's Turnpike</u>	<u>WB</u>	<u>17.7</u>	<u>D</u>			
Wiles Road from SR 7 to	<u>EB</u>	<u>24.5</u>	<u>C</u>			
Powerline Road	<u>WB</u>	23.7	<u>C</u>			

(Page 21-34 Revised November 2009 SIN 2)

This analysis demonstrates that, with the specific intersection improvements in place that are outlined in this analysis, the significantly impacted roadway segments are expected to operate at an acceptable level of service.

Transit Concurrency

As outlined in the Broward County Comprehensive Plan, Broward County has established three types of Concurrency Districts: Transit-Oriented Concurrency Districts, Community Design Concurrency Districts, and Standard Concurrency Districts. The project site lies within the "North Central District," which is a transit-oriented concurrency district. The North Central District is generally bounded on the east by Florida's Turnpike, on the south by Commercial Boulevard and NW 44th Street, on the west by Conservation Area, and on the north by Sawgrass Expressway and Palm Beach County. As defined in the Broward County Comprehensive Plan:

Policy 3.4.2 The concurrency management system shall establish the following transportation level of service (LOS) standards: Within the subject transit oriented concurrency districts, the transportation LOS standards, for the purpose of issuing development orders and permits, are to achieve and maintain the following by FY 2009:

- Achieve headways of 30 minutes or less on 90 percent (90%) of routes.
- Establish at least one neighborhood transit center.
- Establish at least one additional community bus route.
- Expand coverage area to 53 percent (53%).
- Increase number of bus stop shelters by 30 percent.
- Maintain the maximum service volumes on arterial roadways within each District, as displayed below:

Peak Hour Two Way Maximum Service Volumes					
Roadway Type	Maximum Service Volumes				
Two-lane arterials	2,555				
Four-lane arterials	5,442				
Six-lane arterials	8,190				
Eight-lane arterials	10,605				

The Maximum Service Volumes are calculated from "Generalized Peak Hour Two-Way Volumes for Florida's Urbanized Area", published by the Florida Department of Transportation, as 75% above the volumes for Class IV State Two-Way Arterials, for Level of Service E, for the Eastern Core District; and as

75% above the volumes for Class II State Two-Way Arterials, for Level of Service D, for all other districts.

Fourteen (14) separate Broward County transit routes currently travel at least a portion of the roadway network within some portion of the North Central Transit-Oriented Concurrency District. These routes and existing headways are listed in Table 21-25:

Table 21-25 Existing Transit Route Information		
Route	Headway (peak hour)	Route includes a portion of a significantly impacted roadway?
Route 2	20 min	No
Route 18	15 min	Yes
Route 31	20 min	Yes
Route 34	30 min	Yes
Route 42	30 min	No
Route 48	45 min	Yes
Route 55	40 min	No
Route 57	80 min	No
Route 60	20 min	No
Route 62	30 min	No
Route 81	30 min	No
Route 83	25 min	No
Route 88	30 min	No
Route 441 Breeze	30 min	Yes

Currently, 79 percent (79%) of the routes (11of the 14) that travel within at least a portion of the North Central District have headways of 30 minutes or less. Of the 5 routes that travel on at least a portion of a significantly impacted roadway, 80% (4 of 5) have headways of 30 minutes or less. The adopted level of service standard for this district requires that 90 percent (90%) of the routes in the district achieve headways of 30 minutes or less by 2009. This standard is currently not met.

Based upon Broward County's transit-oriented LOS requirements, the Applicant will be required to mitigate traffic generated by the site through the payment of Transit-Oriented Concurrency (TOC fees) based upon the number of trips generated by the site. According to the current rates, the TOC fee to be paid by the Applicant is approximately \$6.1 million. It should be noted that Broward County is currently revising the Comprehensive Plan and Land Development Code to alter the current concurrency system. This new system will find both capital improvement transit

projects and Broward County Traffic Engineering projects throughout each district. The fees are currently expected to be reduced by approximately one-third of the current rate.

The adopted level of service standards also require that a neighborhood transit center be established within this district. An enhancement that will be implemented by the Applicant is the consolidation of nearby existing bus stops into a transit "superstop" on the east side of NW 54th Avenue adjacent to the site. This subject is further addressed in the response to Question 21-1. The Applicant is willing to work with BCT, FDOT, and the City to coordinate and support a transit "superstop". However, the Applicant realizes that much study and negotiation are necessary for BCT, the City, FDOT, and the landowners in the RAC (all heavily impacted by the location of the super-stop) to determine the super-stop's ultimate location, configuration, impacts, service, headways, etc. The Applicant understands that the governmental bodies with jurisdiction over the super-stop have just begun to explore the common ground needed to begin the process. (Page 21-32 and 33 Revised September 2009 SIN1). As described previously, the proposed DRI is located within the North Central District of Broward County's Transit Oriented Concurrency system. Within this system, transportation improvements are focused on the enhancement of transit capacity and service. In addition to the neighborhood center, the standards also require the expansion of the transit service area to 53 percent (53%) in the North Central District and that bus shelters countywide be increased by 30 percent (30%) by 2009.

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.

The development will have direct or indirect access to all adjacent major roadways consisting of State Road 7, Wiles Road, Lyons Road, Sample Road, and numerous programmed roadway improvements including Banks Road and Cullum Road. Furthermore, all internal and external access points will include the appropriate pedestrian and bicycle facilities to provide connectivity to the adjacent transportation network. The following sections summarize access to the propose development.

Sample Road (via NW 54th Avenue)

Access to Sample Road is proposed via NW 54th Avenue. Project traffic will utilize several access points on internal roadways to access the existing full access signalized

intersection located on Sample Road at NW 54th Avenue. Further information regarding access to NW 54th Avenue/Cullum Road is in this section. Additional access to Sample Road is proposed at Banks Road. As part of the development, Banks Road will be extended north to connect to Wiles Road as well as intersect with the Cullum Road extension to Wiles Road. Recognizing that Banks Road is classified as a Broward County Trafficway and a City Collector, the Applicant proposes to convert the existing directional median opening into a full access connection. A third full access connection is proposed at the existing median opening currently serving Fisherman's Drive along the south side of Sample Road. The proposed development plans to maintain the existing full access connection at this location.

State Road 7 (via Cullum Road/NW 40th Street)

Access to State Road 7 is proposed via Cullum Road and NW 40th Street. Project traffic will utilize the existing full access signalized intersection located on State Road 7 at Cullum Road/Turtle Creek Drive. Access to State Road 7 from NW 40th Street is proposed to remain as a right-in/right-out connection. Additional information regarding access to NW 54th Avenue/Cullum Road is explained further in this section.

Wiles Road (via Banks Road)

Access is proposed via the existing northern leg of Banks Road that extends 100 feet south from Wiles Road near Monarch High School. The proposed development is expected to complete the southern section of Banks Road to Sample Road intersecting with Cullum Road. The existing full access intersection on Wiles Road at Bank Road will be maintained and signalized when warranted.

Lyons Road

Access to Lyons Road is proposed at three (3) locations. The northernmost access point is proposed via the extension/construction of Cullum Road from NW 54th Ave to Lyons Road. The proposed full access connection aligns with a full median opening currently serving NW 42nd Drive. The southernmost access connection along Lyons Road is proposed to align with the existing full median opening serving the Riviera Pointe residential condominium development. An additional access connection is proposed at a full access median opening located at approximately 4150 Lyons Road between NW 42nd Drive and Riviera Pointe's Palm's access. The proposed development intends to maintain the existing median openings on this County maintained roadway and signalize them as warranted. (Page 21-34 Revised September 2009 SIN 1)

NW 54th Avenue/Cullum Road

Numerous access points to NW 54th Avenue and Cullum Road to serve specific development parcels within the project are proposed. It should be noted that the

location and the uses which these driveways serve is preliminary at this time. Therefore, the analysis of project driveways was limited to a proposed roundabout intersection of Cullum Road and NW 54th Avenue. The detailed analysis of the driveway connections along the remainder of NW 54th Ave will be performed during the permitting process as the City of Coconut Creek maintains the subject roadway.

Projected volumes at each point of access are shown in Figure I-2 and Figure I-8 in Appendix I. Table 21-13, provided earlier in this report, summarizes the projected level of service at each of the project access points with the proposed configuration. For stop-controlled intersections, no overall level of service is provided; therefore, the level of service reported is the level of service for the approach or movement with the highest delay.

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 inter-local agreements, right-of-way dedication, building set-backs, etc.

The project will complement the protection of existing transportation corridors by dedicating the required right-of-way for portions of Cullum Road, Banks Road, and additional public streets within the development consistent with the City of Coconut Creek's MainStreet Standards, The Applicant will also provide additional right-of way as required at the proposed project access points along the adjacent roadways to provide for right-turn deceleration lanes into project driveways. No other right-of-way dedication is proposed.

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.

The following sections summarizing the design criteria, framework, and features of the proposed development as it relates to modes of travel other than single-occupant vehicles:

Standards and Policies

The DRI is located within the City of Coconut Creek's Main Street Regional Activity Center. As a result, the proposed development will adhere to the applicable standards included in the City of Coconut Creek's Comprehensive Plan and the MainStreet Design Standards. Although the conceptual site plan is in the preliminary stages, the final development order will be subject to the applicable policies and requirements outlined in both of these standards. Several of these policies address

issues that are related to non-vehicular modes of transportation. The following sections summarize these policies.

City of Coconut Creek Comprehensive Plan

- Future Land Use Element Policy II-9.2.2 In developing the designated MainStreet RAC, as well as in evaluating future application of this land use category, the use of non-motorized transportation and mass transit to serve the area and reduce reliance upon automobile travel shall be encouraged. (B.C.P.C. 10.02.02).
- Future Land Use Element Policy II-9.2.3 To facilitate public transit access, the integrated transportation systems shall be encouraged to serve the MainStreet Regional Activity Center and shall be a consideration in evaluating the creation of additional Regional Activity Centers. (B.C.P.C. 10.02.03)
- Future Land Use Element Policy II-9.2.4 To enhance pedestrian movement and safety, the separation of pedestrian and vehicular traffic shall be encouraged within any designated Regional Activity Center. (B.C.P.C. 10.02.04)
- Transportation Element Policy III-1.6 The City shall identify, seek matching funds and otherwise provide for the implementation of Transportation System Management (TSM) strategies designed to improve system efficiency and safety, such as improvements to road conditions and intersections, and computerized traffic signals by such means as requesting signalization timing reviews by Broward County Traffic Engineering, imposing development approval conditions through the development review and permitting process, and cooperating with Broward County and FDOT through courtesy permit and monitoring procedures.
- Transportation Element Policy III-1.7 The City shall support Transportation Demand Management (TDM) strategies to improve efficiency of the roadways by increasing the vehicle occupancy rate and reducing the number of per capita vehicle miles traveled on the roadway network. The City shall support regional ridesharing programs and other public and private ridesharing efforts, and encourage the development of ridesharing support services such as park and ride facilities and carpool and vanpool matching programs.

MainStreet Design Standards

The following sections summarize the applicable portions of the MainStreet Design Standards. Full versions of these Standards, are available at the following website: http://www.coconutcreek.net/pdf/Final_Design_Standards.pdf.

Streetscapes

The MainStreet Design Standards outline the following design criteria for streetscapes:

- 4' wide bike lanes in applicable locations
- Adequate buffer planting including appropriately spaced shade trees and hedges
- Other streetscape amenities including benches, bike racks
- Bulb-outs in areas of parallel parking with appropriate shrubs and trees
- Reduced travel lane widths
- Appropriate lighting for banners, pedestrian lighting, and street lighting

In response to these criteria, four (4) different roadway cross-sections within the proposed development are proposed: The following Street Types are outlined in the MainStreet Design Standards:

- Street Type A (1286' ROW) 13' 20' Sidewalks, 20' Median, four 11' travel lanes, 4' bike paths, and two 8' parallel parking aisles 18' 45-degree angled parking
- Street Type B (12<u>0'</u>6 ROW) <u>14'</u> <u>16'</u> Sidewalks, <u>10'</u> <u>20'</u> Median, four 11' travel lanes, 4' bike paths, <u>and</u> <u>two 8' parallel parking aisles</u>2 <u>rows of 18' 45-degree parking</u>
- Street Type C (174'to 214'170' ROW) 19' 20' Sidewalks along commercial edges, one 10' 11' sidewalks along lakeside edge, 14' median, two 11' travel lanes, two 8'parallel parking aisles, and 90-'140'87'6" wide linear park
- Street Type D (73' 60' ROW) 14'-21'11' Sidewalks, two 11' travel lanes, and two 8' parallel parking aisles (Page 21-37 revised September 2009 SIN1)

In addition, other pedestrian features outlined in the MainStreet Design Standards including pedestrian amenities (benches, trash receptacles, etc.), trees and plantings, pedestrian crossings, and lighting are proposed. Traffic calming features including roundabouts to slow traffic down and to encourage alternative modes of travel will also be considered where applicable. These criteria are designed to provide an enhanced pedestrian experience throughout the development.

Plazas

The MainStreet Design Standards outline the criteria for public plazas. This guidance includes providing habitable spaces during the summer months, responding to pedestrian circulation corridors and providing enhanced views. Requirements include the following:

- Provide easy access to plazas by creating clear paths and well marked crosswalks
- Create a variety of seating and viewing opportunities
- Encourage programmed uses in the plaza area.

These guidelines further the goals and objectives of making the proposed development extremely pedestrian and bicycle friendly. The proposed development will recognize the importance of plazas as it relates to encouraging alternative modes

of travel within the site, making the development more attractive to visit and travel within the development without the use of a private automobile.

Buildings

The MainStreet Design Standards outline several principles for the buildings within the development. More specifically, the principles encourage the buildings to be linked to the street activities and provide pedestrian oriented uses on the street level. Additionally, a focus of these criteria is to require the majority of parking to be provided behind buildings within screened parking garages.

As required by MainStreet Design Standards District Classification, the proposed architecture should employ appropriate building scale, massing and articulation. Specific building elements and dimensions define the architectural spatial qualities of the project. Attention to detail is encouraged at all areas and will be developed at the pedestrian level and areas of high visibility.

The Standards provide a variety of development density criteria depending on the Sub-District within the MainStreet area. Overall, the Standards encourage mixed-use development similar to more urbanized areas. In addition, the Standards provide for reduced maximum setbacks along transportation corridors in an effort to encourage pedestrian activity. Furthermore, the Standards outline requirements for awnings, canopies, or arcades along all commercial street frontage to provide pedestrians with additional protection from the weather.

Landscaping

A pedestrian/bicycle friendly environment through landscaping and site amenities creating pleasing and comfortable outdoor spaces is proposed. The landscape architecture concept will respond to the specific site and to the South Florida weather. Particular focus will be to shelter these modes of travel from the heat/sun by offering natural canopies to stimulate pedestrian movement.

Transit

In addition to the mix of land uses which provide a supportive environment for transit, a number of design elements will foster a virtual transit-oriented development are proposed. A key transit design feature is the proposed transit superstop located along the east side of NW 54th Avenue. The location of the proposed superstop along the perimeter ring road network for the Sample Road/State Road 7 urban interchange provides opportunities for site visitors, employees, and residents to access transit routes in all directions. Additionally, it will provide an important transfer point for existing transit riders to change routes. In addition to the three (3) conventional Broward County Transit routes (Routes 18, 31, and 34) and the two (2) community bus

routes (Routes N and S), the superstop can be served by the existing Breeze Limited Stop Service currently operating on State Road 7 and a portion of the existing perimeter ring road network (NW 62nd Avenue). The Breeze Route currently terminates at the Sample Road/State Road 7 interchange.

A transit superstop represents a mid-range transit facility serving as a neighborhood focal point and/or community center. Superstops are facilities with a focus on community conveniences in commercial or mixed-use land types. Direct and convenient access to the Main Street at Coconut Creek will be provided at the large entry plaza. Amenities, typical for a superstop type facility, are anticipated to be incorporated into the design. Typical superstop amenities include signage, specialty paving, passenger shelters, system maps/fare information, seating, vending machines, courtesy telephones, lighting, bicycle storage, bus bays, etc.

Additionally, a community shuttle service is planned when warranted. The Applicant plans to coordinate with the City of Coconut Creek and Broward County Transit to develop and implement a community shuttle service operating both within the development and to adjacent destinations. It is anticipated that the shuttle would also provide connections from various locations within the development to the proposed superstop to facilitate ridership transfers for residents, patrons, and employees.

Transportation Demand Management

In addition to the previously described design elements, travel management for the development will also be transit-oriented. Transportation Demand Management (TDM) is a term which describes a broad range of strategies for reducing the use of single occupant vehicles as the primary mode of transportation for commuters. These strategies typically focus on measures that can be implemented by individual employers or development managers, but the strategies can also be implemented on an area-wide basis through transportation management associations (TMA) or commuter assistance programs (CAP). Effective TDM programs have been shown to reduce vehicle trips by 5 percent (5%) to 15 percent (15%). South Florida Commuter Services (SFCS) is the regional CAP which provides assistance to commuters and businesses in Miami-Dade, Broward and Palm Beach Counties. The SFCS provides:

- Work Plan Needs Assessment & Program Development
- Carpooling Programs
- Vanpooling Programs
- Emergency Ride Home Services
- Transit Trip Planning Services
- Employer Tax Benefit Assistance

The following are some potential TDM strategies that could be implemented in order

to reduce single occupant vehicle trips if agreed to by the Applicant and governing agencies:

- A mixed-use development program which will encourage multi-purpose trips.
 Retail, entertainment, restaurant and other potential uses will provide commuter assistance to employees.
- A fully accessible internal pedestrian access system which will connect all uses directly to a major (superstop) transit facility.
- The superstop will provide a number of amenities which will encourage bicycle, pedestrian and transit usage. (Amenities previously listed)
- A parking supply and layout that will encourage multi-purpose trips.
- On-site management staff will be able to promote and/or coordinate ridesharing and/or vanpooling services as well as disseminate information on transit operations and other TDM services. Management will also have the ability to implement incentives such as priority parking for carpools and/or vanpools and emergency ride home services.
- Management staff will provide a liaison with South Florida Commuter Services (SFCS) to develop and maintain an effective TDM program.
- Connections will be made to the bicycle lanes on adjacent streets and bicycle racks will be provided on-site for bicycle storage.