

Technical Memorandum

To: Kathryn Lyon

Planning Director Town of Cutler Bay

10720 Caribbean Boulevard, Suite 105

Cutler Bay, FL 33189

From: Carlos X. Valentin, P.E.

Richard Garcia & Associates, Inc.

8065 NW 98th Street

Hialeah Gardens, Florida 33016

Date: March 16th, 2018

Subject: Cutler Gate; Traffic Impact Study Comments and Responses

We have reviewed the traffic comments provided for the referenced project dated March 9th, 2018 and prepared by The Corradino Group, Inc. Please accept this document as an Addendum to our Traffic Impact Study dated January 23rd, 2018. We hereby offer the following responses and additional analysis in an effort to address the comments made as follows:

Roadway Analysis - LOS & Capacity

• Despite the one-day data collection performed at the site, based on information readily available from the <u>FDOT website Florida Traffic Online (2016)</u>, the AADT on Old Cutler Road at Site 878310 – Old Cutler Road, 200' South of Franjo Rd, is 17,900, with a K factor of 9%. Performing the proper calculations on these data indicate that the peak hour traffic on Old Cutler Road is approximately 1,611 vehicles per hour (vph). The report references the <u>2013 FDOT Quality/Level of Service (QLOS) Handbook</u> as the standard for determining Level of Service versus traffic volumes. Because the speed limit on Old Cutler Road is 40 mph, the report places this roadway in the "State Signalized Arterials" category, with a two-lane Level of Service (LOS) D capacity of 1,600 vph. Although we disagree with this categorization, giving the benefit of the doubt, Old Cutler Road currently operates at LOS F. References given above are attached.

Response: We disagree with the reviewer. Although calculating the peak hour traffic using the AADT and K factor is an acceptable traffic engineering practice, actual current year traffic counts (2018 data), as used in the roadway analysis documented in the Traffic Impact Study, are more suitable than utilizing FDOT available published data (2016 data) that is 2-years old and sometimes unreliable based on our professional opinion and vast experience collecting traffic counts. The peak hour traffic of 1,611 vph (based on 2016 AADT and K factor) is an overestimation and does not represent current traffic conditions. The 2018 traffic counts revealed a peak hour traffic of 1,258 vph (two-way volume) that is approximately 20 percent less traffic than the traffic volume calculated by the reviewer using the 2016 AADT. In contrast, the FDOT published data includes a Synopsis report (Site 878310: actual 2016 traffic counts, one-day data) that reveals a peak hour traffic of 1,449 vph.

RICHARD GARCIA & ASSOCIATES, INC.



In addition, the service volume of 1,600 vph on Old Cutler Road is correct and was determined using the appropriate roadway category. The roadway service volume was calculated using the service volume (State Signalized Arterials category) and adjustments (Non-State Signalized Roadway Adjustments and Median & Turn Lane Adjustments) from the FDOT Q/LOS Handbook generalized tables. In fact, the Miami-Dade County Traffic Station list has Old Cutler Road (Station 9594) with a service volume of 1,610 peak hour period (Max LOS) that is consistent with the service volume utilized in our roadway analysis. See attachment for supporting documentation. Lastly, the roadway analysis using actual 2018 traffic counts on Old Cutler Road (east of SW 87th Avenue) yielded LOS C during the roadway's peak hour condition.

Trip Generation

• The site plan provided does not provide sufficient detail to determine which area is being used for retail as opposed to housing. This, in turn will govern the types of land use classifications used to determine trip generation. The description given for ITE Trip Generation Land Use Code (LUC) 221, Multifamily Housing (Mid-Rise) indicates "Mid-Rise Multifamily Housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have between three and 10 levels (floors)."

It is unknown if the dwelling units in this development occupy two or three floors, internally or separately, excluding the retail space which is assumed to occupy the street level. If the housing element of the development occupies only two floors of the buildings, LUC 220, Multifamily Housing (Low-Rise) should be used.

Response: The residential use will occupy the 2nd and 3rd floor of the building. Therefore, the trip generation analysis was revised with LUC 220, Multifamily Housing (Low-Rise). Attached please find the revised analysis.

• The use of Land Use Code (LUC) 820 – Shopping Center for 4,186 ft2 of retail is questionable. The additional data description given for LUC 820, Shopping Center states "Shopping centers, including neighborhood centers, community centers, regional centers, and super regional centers, were surveyed for this land use. Some of these centers contained non-merchandising facilities, such as office buildings, movie theaters, restaurants, post offices, banks, health clubs, and recreational facilities (for example, ice skating rinks or indoor miniature golf courses)." The average size of shopping centers surveyed for the ITE AM peak trip generation rates was 251,000 ft2, and 327,000 ft2 for the PM peak, with a daily survey representing shopping centers of 435,000 ft2. Because the retail use (4,186 ft2) is minimal, trip generation should be calculated for each shop individually, based on anticipated uses.

Response: The retail space will be for "neighborhood retail" uses as indicated by the Client and thus, can be similar to neighborhood centers as described in the ITE definition for LUC 820, Shopping Center. At this stage of the project, the Client cannot anticipate any specific retail use or tenant and therefore, the peak hour trips for the retail space were calculated using LUC 820 that most closely resembles the proposed retail use.

• If it is acceptable to Cutler Bay, trip generation calculations based on LUC 820, Shopping Center, should be calculated using fitted curve equations rather than on



average rates. Using the fitted curve equations, our analysis indicates that there should be a total of 101 trips in the AM peak and 69 trips during the PM peak. Calculations reflecting these results are attached.

Response: We disagree with the reviewer. The trip generation analysis with the fitted curve equations for LUC 820 yield 154 gross trips for the AM peak hour (not 89 trips as calculated by the reviewer) and 52 gross trips for the PM peak hour. These results are unreasonable and out of scale when comparing the site's average size of the ITE data (AM peak: 351,000 Sq.Ft. and PM peak: 327,000 Sq.Ft.) with the proposed retail space of 4,186 square feet.

Additionally, the retail space will have only 14 parking spaces as per the Town's requirements and this clearly indicates that 4,186 square feet retail space will not generate significant amount of traffic otherwise a lot more parking would be required. Note, it is acceptable to perform a conservative analysis but engineering judgment should be used to ensure the results pass a reasonableness test.

Lastly, the revised project trip generation analysis with the ITE average rates yielded 21 total gross trips (LUC 820: 4 trips) for the AM peak hour and 36 total gross trips (LUC 820: 16 trips) for the PM peak hour. These results are deemed reasonable for the proposed uses.

 Once an accurate accounting of trip generation is presented, allowances should be made for multimodal trips, internal capture using NCHRP 684 methodology, and pas-by capture based on ITE Trip Generation Handbook, 3rd Edition.

Response: Although internal capture and pass-by can be applied in the trip generation analysis, these trip adjustments were not utilized as a conservative approach. In fact, the internalization for the project resulted in only 3 PM trips.

Trip Distribution

• Trip distribution will require recalculation based upon actual trip generation results.

Response: See the revised trip distribution and assignment sheets.

Proposed Future Conditions

 Proposed future conditions will require recalculation based upon actual trip generation results.

Response: The revised analyses yielded the same LOS results previously documented in the Traffic Impact Study dated January 23rd, 2018. See attachment for supporting documentation.

In conclusion, the project traffic will not adversely affect the traffic operations within the study area and therefore, an approval should be granted.



Attachments

TABLE: A1

TRIP GENERATION ANALYSIS AM PEAK HOUR

Project Name: Cutler Gate

		ITE LU	TRIP GENERATION	AM PEAK HOUR TRIPS				
LAND USE (LU)	UNITS		RATE	%	IN	%	OUT	TOTAL
Proposed								
Multifamily Housing (Low-Rise)	36 D.U.	220	0.46	23%	4	77%	13	17
Shopping Center (Retail)	4.186 Th.Sq.Ft.	820	0.94	62%	2	38%	2	4
	Out of Sc	ale -	→ T=0.50(X)+151.78	62%	95	38%	59	154
External Trips (Gross Trips)				29%	6	71%	15	21

Notes: Sources: ITE Trip Generation, 10th Edition & ITE Trip Generation Handbook, 3rd Edition.

TABLE: A2

TRIP GENERATION ANALYSIS PM PEAK HOUR

Project Name: Cutler Gate

1.AND 1105 (1.11)		ITE LU	TRIP GENERATION		PM PE	AK HOUR	R TRIPS		
LAND USE (LU)	UNITS		RATE	%	IN	%	OUT	TOTAL	
Proposed									
Multifamily Housing (Low-Rise)	36 D.U.	220	0.56	63%	13	37%	7	20	
Shopping Center (Retail)	4.186 Th.Sq.Ft.	820	3.81	48%	8	52%	8	16	
	Out of Scale	e>	Ln(T)=0.74Ln(X)+2.89	48%	25	52%	27	52	
External Trips (Gross Trips)				58%	21	42%	15	36	

Notes: Sources: ITE Trip Generation, 10th Edition & ITE Trip Generation Handbook, 3rd Edition.

Multifamily Housing (Low-Rise)

(220)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

Setting/Location: General Urban/Suburban

Number of Studies: 42 Avg. Num. of Dwelling Units: 199

Directional Distribution: 23% entering, 77% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate

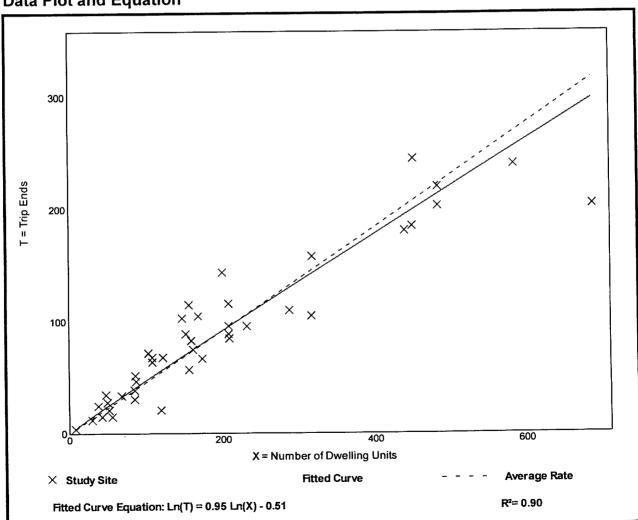
Range of Rates

Standard Deviation

0.46

0.18 - 0.74

0.12





Multifamily Housing (Low-Rise)

(220)

Vehicle Trip Ends vs: Dwelling Units

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies:

50 187

Avg. Num. of Dwelling Units:

Directional Distribution: 63% entering, 37% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate

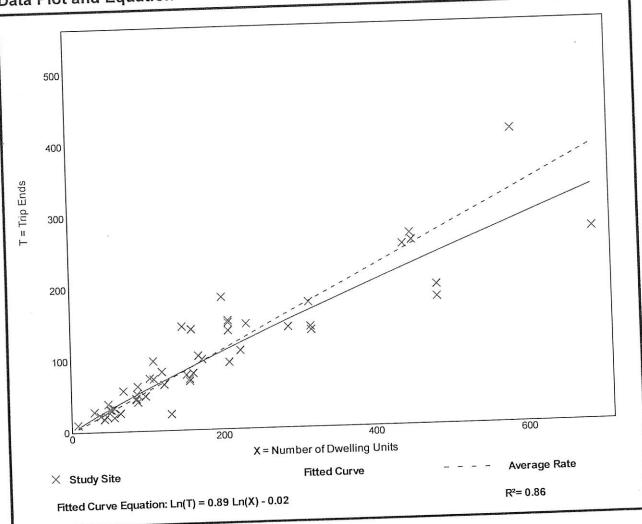
Range of Rates

Standard Deviation

0.56

0.18 - 1.25

0.16





Shopping Center

(820)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic,

One Hour Between 7 and 9 a.m.

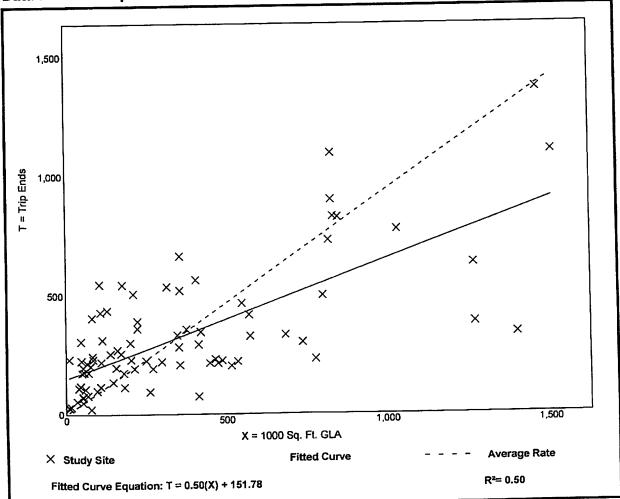
Setting/Location: General Urban/Suburban

Number of Studies: 84 1000 Sq. Ft. GLA: 351

Directional Distribution: 62% entering, 38% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate Range of Rates Standard Deviation 0.94 0.18 - 23.74 0.87





Shopping Center (820)

(---)

Vehicle Trip Ends vs: 1000 Sq. Ft. GLA

On a: Weekday,

Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.

Setting/Location: General Urban/Suburban

Number of Studies: 261 1000 Sq. Ft. GLA: 327

Directional Distribution: 48% entering, 52% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GLA

Average Rate

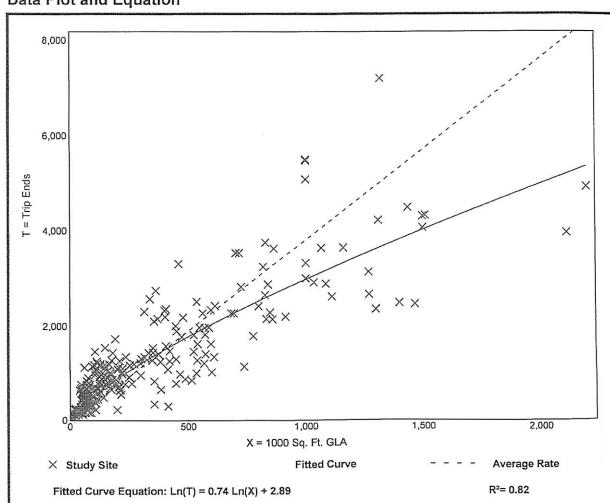
Range of Rates

Standard Deviation

3.81

0.74 - 18.69

2.04



Cutler Gate

Analyst	CV	_
Date	March 15, 2018	

MULTI-USE DEVELOPMENT TRIP GENERATION AND INTERNAL CAPTURE SUMMARY

Time Period AM Peak Hour

	LAND US	SE A Multifa	mily Housing	9						LAND U	SE B	Retail		
Exit to External	l'i	TE LU Code Size	220 36 DU	J		2% 0 Demand	0 Balanced	14% 1 Demand		ΙΤ	E LU Code Size	820 4,186 S	F	Enter from External
13		Total	Internal	External							Total	Internal	External	2
-	Enter	4	0	4	Market III or I contain the latest and the latest a				\rightarrow	Enter	2	0	2	-
-	Exit	13	0	13	1			52 Table 2010 2010 2010 201		Exit	2	0	2	
4	Total	17	0	17]	1% 0	0	17% 0		Total	4	0	4	2
Enter from External	%	100%	0%	100%]	Demand	Balanced	Demand		%	100%	0%	100%	Exit to External

	Net External	Net External Trips for Multi-Use Development			
	LAND USE A	LAND USE B	TOTAL		
Enter	4	2	6	INTERNAL CAPTURE	
Exit	13	2	15	INTERNAL CAPTURE	
Total	17	4	21	0.00%	
Single-Use Trip Gen. Est.	17	4	21	0.00%	

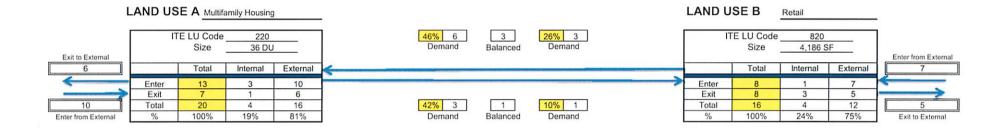
Sources: Trip Generation Handbook, 3nd Edition.
Input variables.

Cutler Gate

Analyst	CV	_
Date	March 15, 2018	

MULTI-USE DEVELOPMENT TRIP GENERATION AND INTERNAL CAPTURE SUMMARY

Time Period PM Peak Hour



	Net External	Trips for Multi-Use Developr	ment	
	LAND USE A	LAND USE B	TOTAL	
Enter	10	7	17	INTERNAL CAPTURE
Exit	6	5	11	INTERNAL CAPTURE
Total	16	12	28	21.67%
Single-Use Trip Gen. Est.	20	16	36	21.07 70

Sources: Trip Generation Handbook, 3nd Edition.
Input variables.

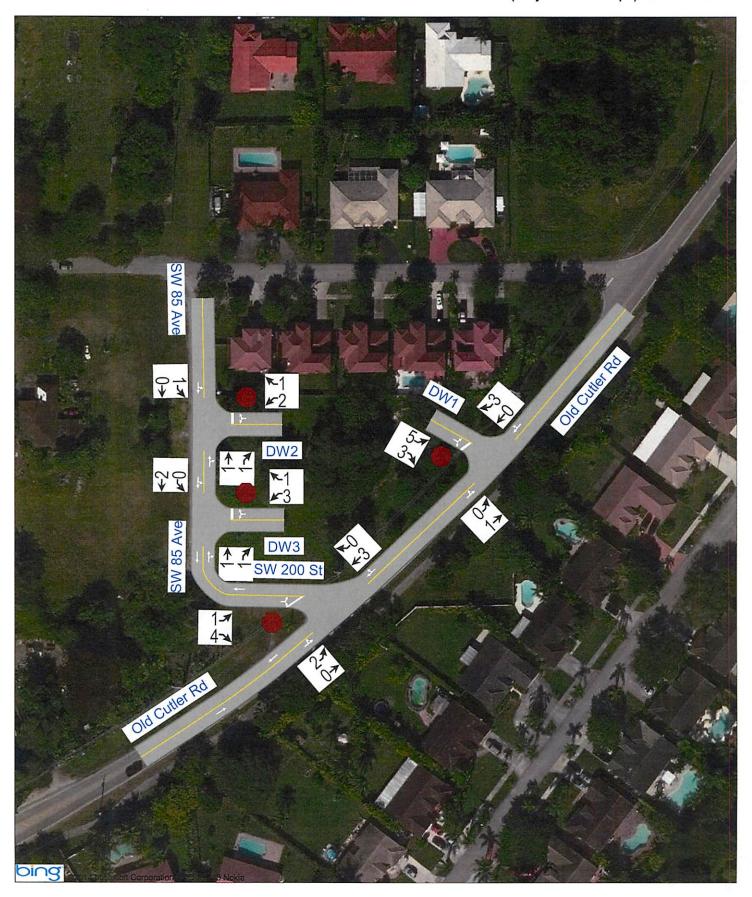


TABLE: A3

Cardinal Distribution AM Peak Hour

Traffic Analysis Zone (TAZ) 1356

Project Name: Cutler Gate

DIRECTION	DISTRIBUTION (%)	DISTRIBUTION (%) DESIGN YEAR DIRECTION DISTRIBUTION		AM PEAK HOUR TRIPS			
Direction	DESIGN YEAR			IN	OUT	TOTAL	
NNE ENE	23.78 1.27	NORTH	48.15%	3	8	11	
ESE SSE	0.46 5.74	EAST	1.73%	0	0	0	
SSW WSW	7.32 21.95	SOUTH	13.06%	1	2	3	
WNW NNW	15.18 24.37	WEST	37.13%	2	5	7	
TOTAL	100.00		100.00%	6	15	21	

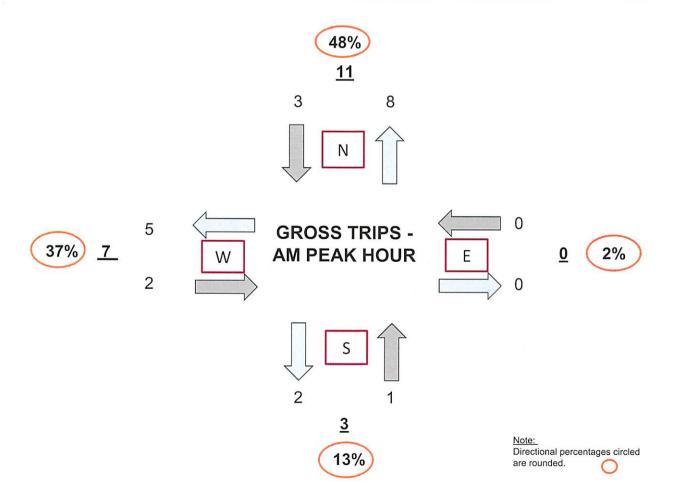


TABLE: A3-1

Cardinal Distribution AM Peak Hour

Traffic Analysis Zone (TAZ) 1356

Project Name: Cutler Gate

	DISTRIE	UTION PERCENTA	GES (%)	AM PEAK HOUR			
DIRECTION	MIAMI-DADE LRTP MODEL YEAR		DESIGN YEAR		0117		
	2010	2040	2019	IN	OUT	TOTAL	
NNE	25.40	20.00	23.78	1	4	5	
ENE	1.60	0.50	1.27	0	0	0	
ESE	0.40	0.60	0.46	0	0	0	
SSE	6.40	4.20	5.74	0	1	1	
SSW	7.20	7.60	7.32	1	1	2	
wsw	21.50	23.00	21.95	1	3	4	
WNW	13.80	18.40	15.18	1	2	3	
NNW	23.80	25.70	24.37	2	4	6	
TOTAL	100.00	100.00	100.00	6	15	21	

Note:

Based on Miami-Dade Transportation Plan (to the Year 2040) Directional Trip Distribution Report, October 2014. Since the current data is only available for the model years 2010 and 2040, the eight (8) cardinal directions were interpolated to the design year of 2019.

TABLE: A3-2

AM PEAK HOUR	IN	OUT	TOTAL
TRIPS:	6	15	21
PERCENT:	28.57%	71.43%	(Calculated)

DIRECTION	DISTRIBUTION %	INGRE	SS	EGRE	SS	TOTAL
		CALCULATED	USED	CALCULATED	USED	1
NNE	23.78	1.427	1	3.567	4	5
ENE	1.27	0.076	0	0.191	0	0
ESE	0.46	0.028	0	0.069	0	0
SSE	5.74	0.344	0	0.861	1	1
SSW	7.32	0.439	1	1.098	1	2
WSW	21.95	1.317	1	3.293	3	4
WNW	15.18	0.911	1	2.277	2	3
NNW	24.37	1.462	2	3.656	4	6
TOTAL	100.00	6.004	6	15.011	15	21

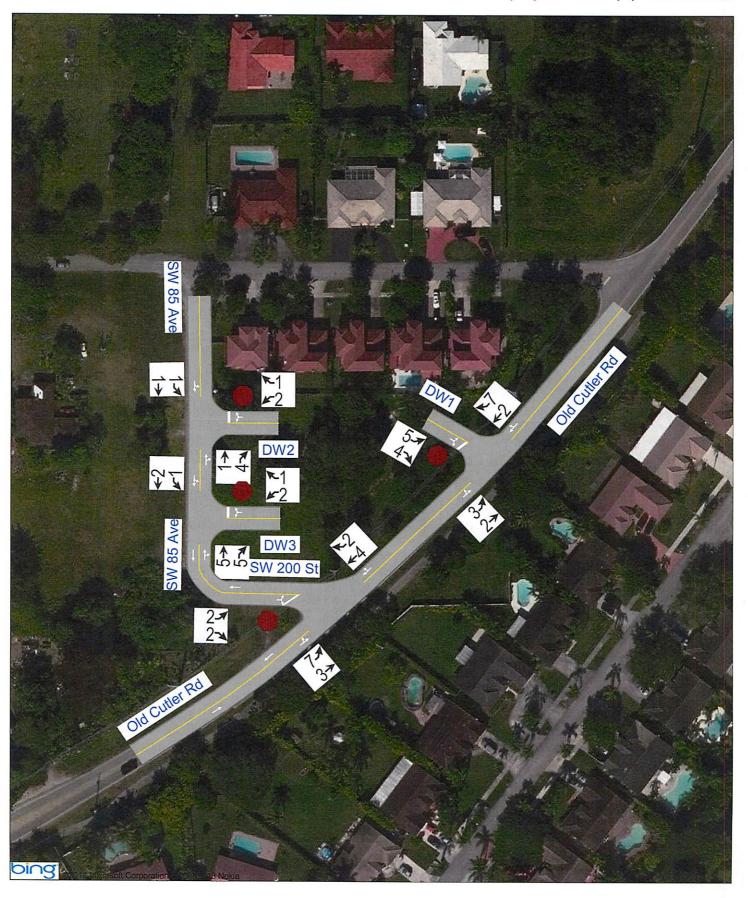


TABLE: A4

Cardinal Distribution PM Peak Hour

Traffic Analysis Zone (TAZ) 1356

Project Name: Cutler Gate

DIRECTION	DISTRIBUTION (%)	DIRECTION	RECTION DISTRIBUTION		PM PEAK HOUR TRIPS			
Direction	DESIGN YEAR	BIRLOTION	BIGTRIBOTION	IN	OUT	TOTAL		
NNE ENE ESE	23.78 1.27 0.46	NORTH	48.15%	10	8	18		
SSE SSW	5.74 7.32	EAST	1.73%	0	0	0		
wsw	21.95	SOUTH	13.06%	3	2	5		
NNW NNW	15.18 24.37	WEST	37.13%	8	5	13		
TOTAL	100.00		100.00%	21	15	36		

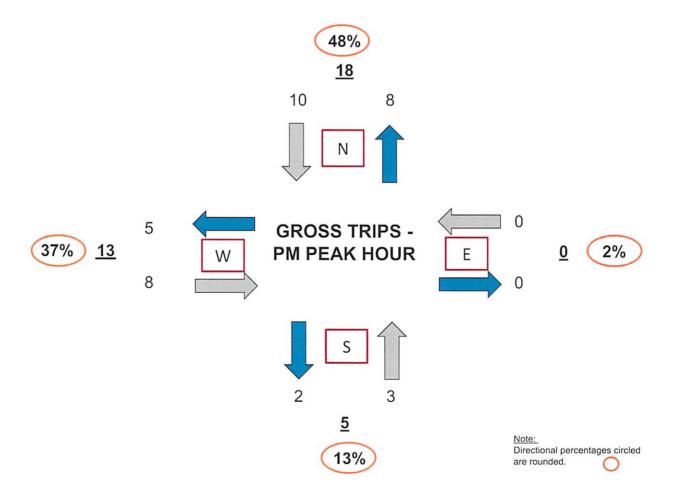


TABLE: A4-1

Cardinal Distribution PM Peak Hour

Traffic Analysis Zone (TAZ) 1356

Project Name: Cutler Gate

	DISTRIE	SUTION PERCENTA	GES (%)	PM PEAK HOUR				
DIRECTION	MIAMI-DADE LR	TP MODEL YEAR	DESIGN YEAR	196020		100000000000000000000000000000000000000		
	2010 2040		2019	IN	OUT	TOTAL		
NNE	25.40	20.00	23.78	5	4	9		
ENE	1.60	0.50	1.27	0	0	0		
ESE	0.40	0.60	0.46	0	0	0		
SSE	6.40	4.20	5.74	1	1	2		
SSW	7.20	7.60	7.32	2	1 1	3		
WSW	21.50	23.00	21.95	5	3	8		
WNW	13.80	18.40	15.18	3	2	5		
NNW	23.80	25.70	24.37	5	4	9		
TOTAL	100.00	100.00	100.00	21	15	36		

Note:

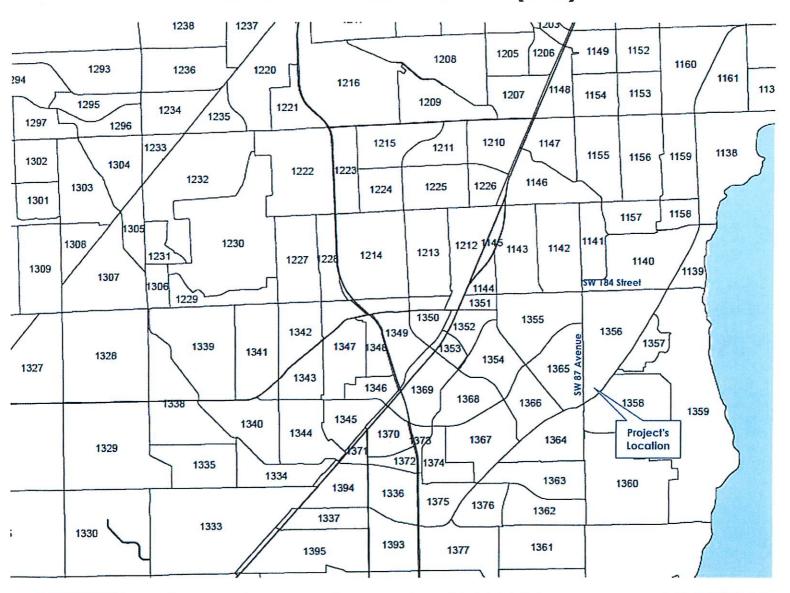
Based on Miami-Dade Transportation Plan (to the Year 2040) Directional Trip Distribution Report, October 2014. Since the current data is only available for the model years 2010 and 2040, the eight (8) cardinal directions were interpolated to the design year of 2019.

TABLE: A4-2

PM PEAK HOUR	IN	OUT	TOTAL
TRIPS:	21	15	36
PERCENT:	58.33%	41.67%	(Calculated)

DIRECTION	DISTRIBUTION %	INGRE	SS	EGRE	SS	TOTAL
*		CALCULATED	USED	CALCULATED	USED	1
NNE	23.78	4.994	5	3.567	4	9
ENE	1.27	0.267	0	0.191	0	0
ESE	0.46	0.097	0	0.069	0	0
SSE	5.74	1.205	1	0.861	1	2
SSW	7.32	1.537	2	1.098	1	3
WSW	21.95	4.610	5	3.293	3	8
WNW	15.18	3.188	3	2.277	2	5
NNW	24.37	5.118	5	3.656	4	9
TOTAL	100.00	21.015	21	15.011	15	36

TRAFFIC ANALYSIS ZONE (TAZ)





MIAMI-DADE 2040

Long Range Transportation Plan
Directional Trip Distribution Report
October 23, 2014













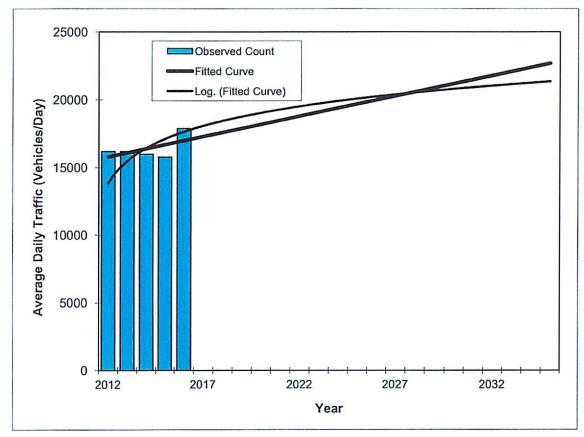
Orig	gin TAZ	Miami-D				Cardinal I	Direction			15/15/15	
County TAZ	Regional TAZ		NNE	ENE	ESE	SSE	ssw	wsw	wnw	NNW	Total
1354	4254	TRIPS	772	139	56	130	317	390	359	487	2,650
1354	4254	PERCENT	29.1	5.3	2.1	4.9	12.0	14.7	13.6	18.4	
1355	4255	TRIPS	1,441	39	114	303	465	507	512	993	4,374
1355	4255	PERCENT	32.9	0.9	2.6	6.9	10.6	11.6	11.7	22.7	
1356	4256	TRIPS	988	61	16	251	279	837	538	927	3,897
1356	4256	PERCENT	25.4	1.6	0.4	6.4	7.2	21.5	13.8	23.8	
1357	4257	TRIPS	151	0	0	8	63	71	91	141	525
1357	4257	PERCENT	28.8	0.0	0.0	1.5	12.0	13.5	17.3	26.9	
1358	4258	TRIPS	806	3	13	238	90	316	562	982	3,010
1358	4258	PERCENT	26.8	0.1	0.4	7.9	3.0	10.5	18.7	32.6	
1359	4259	TRIPS	700	5	0	0	14	414	414	841	2,388
1359	4259	PERCENT	29.3	0.2	0.0	0.0	0.6	17.3	17.3	35.2	
1360	4260	TRIPS	904	65	0	0	111	769	963	1,780	4,592
1360	4260	PERCENT	19.7	1.4	0.0	0.0	2.4	16.8	21.0	38.8	
1361	4261	TRIPS	1,058	33	0	0	39	207	448	871	2,656
1361	4261	PERCENT	39.8	1.2	0.0	0.0	1.5	7.8	16.9	32.8	
1362	4262	TRIPS	601	131	0	0	46	174	440	749	2,141
1362	4262	PERCENT	28.1	6.1	0.0	0.0	2.2	8.1	20.6	35.0	
1363	4263	TRIPS	1,113	103	0	40	43	463	584	869	3,215
1363	4263	PERCENT	34.6	3.2	0.0	1.2	1.3	14.4	18.2	27.0	
1364	4264	TRIPS	1,341	161	191	71	348	759	745	1,251	4,867
1364	4264	PERCENT	27.6	3.3	3.9	1.5	7.2	15.6	15.3	25.7	
1365	4265	TRIPS	900	198	84	51	353	382	466	837	3,271
1365	4265	PERCENT	27.5	6.1	2.6	1.6	10.8	11.7	14.3	25.6	
1366	4266	TRIPS	865	54	57	220	169	440	502	658	2,965
1366	4266	PERCENT	29.2	1.8	1.9	7.4	5.7	14.8	16.9	22.2	
1367	4267	TRIPS	1,586	202	242	149	315	712	536		5,002
1367	4267	PERCENT	31.7	4.0	4.8	3.0	6.3	14.2	10.7	25.2	
1368	4268	TRIPS	922	71	171	212	313	292	443	435	2,859
1368	4268	PERCENT	32.3	2.5	6.0	7.4	11.0	10.2	15.5	15.2	
1369	4269	TRIPS	1,773	294	456	386	1,128	650	688	1,133	6,508
1369	4269	PERCENT	27.2	4.5	7.0	5.9	17.3	10.0	10.6	17.4	
1370	4270	TRIPS	1,163	466	437	214	1,118	389	616	901	5,304
1370	4270	PERCENT	21.9	8.8	8.2	4.0	21.1	7.3	11.6	17.0	
1371	4271	TRIPS	640	243	156	140	444	102	279	537	2,541
1371	4271	PERCENT	25.2	9.6	6.1	5.5	17.5	4.0	11.0	21.1	
1372	4272	TRIPS	75	0	20	0	50	38	58	49	290
1372	4272	PERCENT	25.9	0.0	6.9	0.0	17.2	13.1	20.0	16.9	
1373	4273	TRIPS	83	23	13	13	22	25	35	29	243
1373	4273	PERCENT	34.2	9.5	5.4	5.4	9.1	10.3	14.4	11.9	
1374	4274	TRIPS	1,589	387	169	0	343	262	524	880	4,154

	on Sum		S	Directions	Cardinal D					in TAZ	Orig
Total	NNW	WNW	wsw	ssw	SSE	ESE	ENE	NNE		Regional TAZ	County TAZ
3,15	714	476	443	431	143	39	126	785	TRIPS	4254	1354
	22.6	15.1	14.0	13.7	4.5	1.2	4.0	24.9	PERCENT	4254	1354
4,59	1,085	533	839	526	232	86	35	1,260	TRIPS	4255	1355
	23.6	11.6	18.3	11.4	5.1	1.9	0.8	27.4	PERCENT	4255	1355
5,24	1,348	966	1,204	399	218	33	26	1,050	TRIPS	4256	1356
	25.7	18.4	23.0	7.6	4.2	0.6	0.5	20.0	PERCENT	4256	1356
67	161	117	168	64	6	0	0	162	TRIPS	4257	1357
	23.8	17.3	24.8	9.4	0.9	0.0	0.0	23.9	PERCENT	4257	1357
3,49	992	684	721	107	172	20	0	797	TRIPS	4258	1358
	28.4	19.6	20.6	3.1	4.9	0.6	0.0	22.8	PERCENT	4258	1358
2,49	846	524	611	29	0	0	0	489	TRIPS	4259	1359
,,_,	33.9	21.0	24.5	1.2	0.0	0.0	0.0	19.6	PERCENT	4259	1359
6,04	2,072	1,211	1,361	270	0	0	69	1,066	TRIPS	4260	1360
-,	34.3	20.0	22.5	4.5	0.0	0.0	1.1	17.6	PERCENT	4260	1360
5,65	1,574	1,216	916	107	4	0	43	1,797	TRIPS	4261	1361
0,00	27.8	21.5	16.2	1.9	0.1	0.0	0.8	31.8	PERCENT	4261	1361
3,15	929	580	642	139	0	0	197	669	TRIPS	4262	1362
5,25	29.4	18.4	20.3	4.4	0.0	0.0	6.2	21.2	PERCENT	4262	1362
3,92	966	875	851	89	80	0	111	949	TRIPS	4263	1363
0,72	24.6	22.3	21.7	2.3	2.0	0.0	2.8	24.2	PERCENT	4263	1363
5,73	1,610	857	1,230	372	107	104	155	1,298	TRIPS	4264	1364
3,73	28.1	15.0	21.5	6.5	1.9	1.8	2.7	22.6	PERCENT	4264	1364
3,58	977	469	558	425	111	76	153	814	TRIPS	4265	1365
5,50	27.3	13.1	15.6	11.9	3.1	2.1	4.3	22.7	PERCENT	4265	1365
2,88	638	357	573	166	174	85	104	790	TRIPS	4266	1366
2,00	22.1	12.4	19.9	5.8	6.0	2.9	3.6	27.4	PERCENT	4266	1366
4,84	1,060	591	898	442	102	295	224	1,229	TRIPS	4267	1367
1,01	21.9	12.2	18.6	9.1	2.1	6.1	4.6	25.4	PERCENT	4267	1367
3,54	516	549	515	460	263	197	102	944	TRIPS	4268	1368
5,51	14.6	15.5	14.5	13.0	7.4	5.6	2.9	26.6	PERCENT	4268	1368
7,99	1,182	590	950	1,822	337	483	286	2,342	TRIPS	4269	1369
7,555	14.8	7.4	11.9	22.8	4.2	6.0	3.6	29.3	PERCENT	4269	1369
21,67	3,513	1,818	2,645	5,372	1,059	1,320	1,256	4,691	TRIPS	4270	1370
21,07	16.2	8.4	12.2	24.8	4.9	6.1	5.8	21.6	PERCENT	4270	1370
4,49	710	280	448	1,048	190	251	623	948	TRIPS	4271	1371
2,20	15.8	6.2	10.0	23.3	4.2	5.6	13.9	21.1	PERCENT		1371
93:	252	109	140	132	4	18	19	258	TRIPS	4272	1372
,5.	27.0	11.7	15.0	14.2	0.4	1.9	2.0	27.7	PERCENT	the state of the s	1372
333	53	40	42	24	15	8	23	127	TRIPS	4273	1373
00.	16.0	12.1	12.7	7.2	4.5	2.4	6.9	38.3	PERCENT	4273	1373
4,190	864	644	416	456	2	125	317	1,372	TRIPS	4274	1374

Traffic Trends - V2.0
OLD CUTLER RD -- 200' SOUTH OF FRANJO RD

PIN#	973215-1
Location	1

County:	Miami (87)	
Station #:	8310	
Highway:	OLD CUTLER RD	



	Traffic (AD	T/AADT)
Year	Count*	Trend**
2012	16200	15800
2013	16200	16100
2014	16000	16400
2015	15800	16700
2016	17900	17000
	7 Opening Yea	r Trend
2017	N/A	17300
	018 Mid-Year T	rend
2018	N/A	17600
	9 Design Year	
2019	N/A	17900
TRAN	PLAN Forecas	ts/Trends

** Annual Trend Increase: 300

Trend R-squared: 31.60%

Trend Annual Historic Growth Rate: 1.90%

Trend Growth Rate (2016 to Design Year): 1.76%

Printed: 22-Jan-18

Straight Line Growth Option

*Axle-Adjusted

FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8310 - OLD CUTLER RD, 200' SOUTH OF FRANJO RD

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2016	17900 C	N 8900	S 9000	9.00	56.10	13.50
2015	15800 T	N 8100	S 7700	9.00	57.40	13.70
2014	16000 S	N 8200	S 7800	9.00	59.30	17.40
2013	16200 F	N 8300	S 7900	9.00	58.90	16.20
2012	16200 C	N 8300	S 7900	9.00	59.70	16.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE, R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

2016 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL CATEGORY: 8701 MIAMI-DADE SOUTH

CITTLEC	KI. 0701 MIAMI-DADE SOOTA		MOGE 0 00
WEEK	DATES	SF	MOCF: 0.99 PSCF
			P5Cr
1	01/01/2016 - 01/02/2016	0.99	1.00
2	01/03/2016 - 01/09/2016	1.00	1.01
3	01/10/2016 - 01/16/2016	1.02	
4			1.03
5		1.01	1.02
6	01/24/2016 - 01/30/2016	1.01	1.02
	01/31/2016 - 02/06/2016	1.00	1.01
7	02/07/2016 - 02/13/2016	0.99	1.00
* 8	02/14/2016 - 02/20/2016	0.99	1.00
* 9	02/21/2016 - 02/27/2016	0.99	1.00
*10	02/28/2016 - 03/05/2016	0.99	1.00
*11	03/06/2016 - 03/12/2016	0.99	1.00
*12	03/13/2016 - 03/19/2016	0.99	1.00
*13	03/20/2016 - 03/26/2016	0.99	1.00
*14	03/27/2016 - 04/02/2016	0.99	1.00
*15	04/03/2016 - 04/09/2016	0.98	0.99
*16	04/10/2016 - 04/16/2016	0.98	0.99
*17	04/17/2016 - 04/23/2016	0.98	0.99
*18	04/24/2016 - 04/30/2016	0.99	
*19	05/01/2016 - 05/07/2016		1.00
*20	05/08/2016 - 05/14/2016	0.99	1.00
21		0.99	1.00
	05/15/2016 - 05/21/2016	1.00	1.01
22	05/22/2016 - 05/28/2016	1.00	1.01
23	05/29/2016 - 06/04/2016	1.00	1.01
24	06/05/2016 - 06/11/2016	1.00	1.01
25	06/12/2016 - 06/18/2016	1.00	1.01
26	06/19/2016 - 06/25/2016	1.01	1.02
27	06/26/2016 - 07/02/2016	1.02	1.03
28	07/03/2016 - 07/09/2016	1.02	1.03
29	07/10/2016 - 07/16/2016	1.03	1.04
30	07/17/2016 - 07/23/2016	1.03	1.04
31	07/24/2016 - 07/30/2016	1.02	1.03
32	07/31/2016 - 08/06/2016	1.02	1.03
33	08/07/2016 - 08/13/2016	1.01	1.02
34	08/14/2016 - 08/20/2016	1.01	1.02
35	08/21/2016 - 08/27/2016	1.01	1.02
36	08/28/2016 - 09/03/2016	1.02	1.03
37	09/04/2016 - 09/10/2016	1.02	1.03
38	09/11/2016 - 09/17/2016	1.03	1.04
39	09/18/2016 - 09/24/2016	1.02	1.03
40	09/25/2016 - 10/01/2016	1.01	1.02
41	10/02/2016 - 10/08/2016	1.00	
42	10/09/2016 - 10/15/2016		1.01
43	10/16/2016 - 10/22/2016	1.00	1.01
44	10/23/2016 - 10/22/2016	1.00	1.01
45		1.00	1.01
46		1.00	1.01
47	11/06/2016 - 11/12/2016	1.00	1.01
	11/13/2016 - 11/19/2016	1.01	1.02
48	11/20/2016 - 11/26/2016	1.00	1.01
49	11/27/2016 - 12/03/2016	1.00	1.01
50	12/04/2016 - 12/10/2016	0.99	1.00
51	12/11/2016 - 12/17/2016	0.99	1.00
52	12/18/2016 - 12/24/2016	1.00	1.01
53	12/25/2016 - 12/31/2016	1.02	1.03

* PEAK SEASON

21-FEB-2017 10:54:35

830UPD

6_8701_PKSEASON.TXT

INTERSECTION APPROACH VOLUMES - AM PEAK HOUR

Project Name: Cutler Gate

	1	2	3	4	5	6	7	8	9	10	11	12
INTERSECTION NO.	INTERSECTION NAME	APPROACH	MOVEMENT	AM PEAK HR COUNT	DATE OF COUNT	PHF	SF	AM PEAK SEASONALLY ADJUSTED (EXISTING) (2018)	BACKGROUND GROWTH @ 1.76% FOR PROJECT BUILD-OUT OF 2019 (1 YEAR GROWTH)	PROPOSED FUTURE TRAFFIC W/O PROJECT (2019)	SITE TRAFFIC (PROJECT GROSS TRIPS) (VPH)	PROPOSED FUTURE TRAFFIC W/ PROJECT (VPH) (2019)
			SBR	0			1.01	0	0	0	0	0
Į.		SOUTHBOUND	SBT	358			1.01	362	6	368	3	371
İ			SBL	0	ا ہر ا		1.01	0	0	0	0	0
			TOTAL	358	2018			362	6	368	3	371
ĺ			WBR	0	January 17, 2	0.900	1.01	0	0	0	0	0
		WESTBOUND	WBT	0			1.01	0	0	0	0	0
			WBL	0			1.01	0	0	0	0	0
1	Old Cutler Road		TOTAL	0	ğ			0	0	0	0	0
'	& SW 200 Street		_ NBR	0	L _a		1.01	0	0	0	0	0
	,	NORTHBOUND	NBT	734	<u>`</u>	_	1.01	741	13	754	0	754
1		NONTIBOOND	NBL	2) Šģ		1.01	2	0	2	2	4
<u> </u>	l į		TOTAL	736	릴			743	13	756	2	758
	[EBR	0	Wednesday,		1.01	0	0	0	4	4
		EASTBOUND	EBT	0	>		1.01	0	0	0	0	0
		LACIDOGIAD	EBL	0			1.01	0	0	0	1	1
			TOTAL	0				0	0	0	5	5
	TOTAL							1,105	19	1,124	10	1,134

Notes:

- 1 Intersection Name
- 2 Intersection Approach
- 3 Intersection Approach Movement
- 4 TMC data provided by RGA, Inc.
- 5 Date of Count
- 6 Peak Hour Factor

- 7 Seasonal Factor
- 8 Seasonally Adjusted TMC = Count * SF (Existing Condition).
- 9 A 1.76 percent background growth was utilized with a project build-out of 2019.
- 10 Proposed Traffic w/o Project = Seasonally Adjusted TMC + Backgound
- 11 Project Gross Trips.
- 12 Total Traffic = Net Traffic w/o Project + Site Traffic (Proposed Condition with Project)

INTERSECTION APPROACH VOLUMES - PM PEAK HOUR

Project Name: Cutler Gate

_ ·	1	2	3	4	5	6	7	8	9	10	11	12
INTERSECTION NO	INTERSECTION NAME	APPROACH	MOVEMENT	PM PEAK HR COUNT	DATE OF COUNT	PHF	SF	PM PEAK SEASONALLY ADJUSTED (EXISTING)	BACKGROUND GROWTH @ 1.76% FOR PROJECT BUILD-OUT OF 2019 (1 YEAR GROWTH)	PROPOSED FUTURE TRAFFIC W/O PROJECT (2019)	SITE TRAFFIC (PROJECT GROSS TRIPS) (VPH)	PROPOSED FUTURE TRAFFIC W/ PROJECT (VPH) (2019)
			SBR	2			1.01	2	0	2	2	4
		SOUTHBOUND	SBT	864] _		1.01	873	15	888	4	892
			SBL	0			1.01	0	0	0	0	0
			TOTAL	866	2018			875	15	890	6	896
			WBR	0	12,	0.987	1.01	0	0	0	0	0
		WESTBOUND	WBT	0			1.01	0	0	0	0	0
Ì			WBL	0			1.01	0	0	0	0	0
1 1	Old Cutler Road		TOTAL	0	January			0	0	0	0	0
'	& SW 200 Street		NBR	0		0.9	1.01	0	0	0	0	0
		NORTHBOUND	NBT	372	a,		1.01	376	7	382	3	385
		NONTHEODINE	NBL	5	sq		1.01	5	0	5	7	12
	l l		TOTAL	377	을			381	7	387	10	397
			EBR	5	Wednesday,		1.01	5	0	5	2	7
		EASTBOUND	EBT	0	>		1.01	0	0	0	0	0
1		2.10.200112	EBL	0			1.01	0	0	0	2	2
			TOTAL	5				5	0	5	4	9
	TOTAL							1,260	22	1,283	20	1,303

Notes:

- 1 Intersection Name
- 2 Intersection Approach
- 3 Intersection Approach Movement
- 4 TMC data provided by RGA, Inc.
- 5 Date of Count
- 6 Peak Hour Factor

- 7 Seasonal Factor
- 8 Seasonally Adjusted TMC = Count * SF (Existing Condition).
- 9 A 1.76 percent background growth was utilized with a project build-out of 2019.
- 10 Proposed Traffic w/o Project = Seasonally Adjusted TMC + Backgound
- 11 Project Gross Trips.
- 12 Total Traffic = Net Traffic w/o Project + Site Traffic (Proposed Condition with Project)



Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

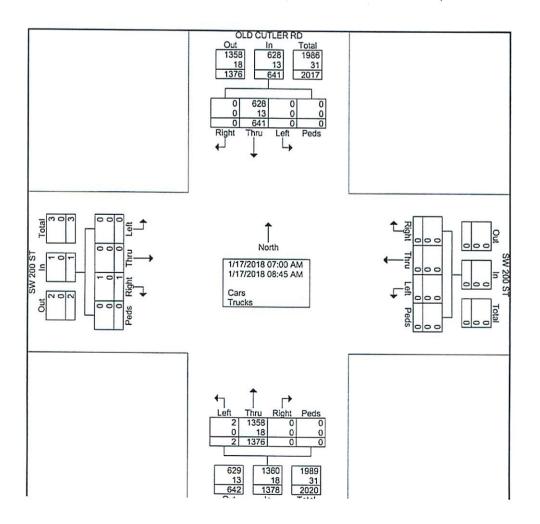
File Name: Old Cutler Rd_SW 200 St_AM

Site Code : 00000000 Start Date : 1/17/2018

Page No : 1

Groups Printed- Cars - Trucks

								Gro	oups F	rinted-	Cars	- Truc	ks								
				ER RE)		SI	N 200	ST			OLD	CUTL	ER RI)		SI	N 200	ST		
			uthbo	und			W	estbo	und			No	orthbo	und			Ea	astbou	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
07:00 AM	0	55	0	0	55	0	0	0	0	0	0	173	0	0	173	0	0	0	0	0	228
07:15 AM	0	57	0	0	57	0	0	0	0	0	0	156	0	0	156	0	0	0	0	0	213
07:30 AM	0	96	0	0	96	0	0	0	0	0	0	153	0	0	153	1	0	0	0	1	250
07:45 AM	0	75	0	0	75	0	0	0	0	0	0	160	0	0	160	0	0	0	0	Ó	235
Total	0	283	0	0	283	0	0	0	0	0	0	642	0	0	642	1	0	0	0	1	926
										-			-	-	0.2			•	·	100	020
MA 00:80	0	80	0	0	80	0	0	0	0	0	0	153	1	0	154	0	0	0	0	0	234
08:15 AM	0	96	0	0	96	0	0	0	0	0	0	197	Ó	0	197	0	0	0	Ô	0	293
08:30 AM	0	96	0	0	96	0	0	0	0	0	0	207	1	Õ	208	Ö	Õ	Ö	0	0	304
08:45 AM	0	86	0	0	86	0	0	0	0	0	0	177	0	0	177	Ö	0	0	0	0	263
Total	0	358	0	0	358	0	0	0	0	0	0	734	2	0	736	0	0	0	0	0	1094
								-	·	•		704	_	U	700	0	O	U	U	U	1094
Grand Total	0	641	0	0	641	0	0	0	0	0	0	1376	2	0	1378	1 1	0	0	0	4	2020
Apprch %	0	100	0	0	459001500	0	0	0	0	-	0	99.9	0.1	0	10.0	100	n	0	0		2020
Total %	0	31.7	0	0	31.7	0	0	0	0	0	0	68.1	0.1	Õ	68.2	0	0	Ö	0	0	
Cars	0	628	0	0	628	0	0	0	0	0	0	1358	2	0	1360	1	0	0	0	1	1989
% Cars	0	98	0	0	98	o	Ö	Ö	Ö	0	0	98.7	100	0	98.7	100	0	0	0	100	98.5
Trucks	0	13	0	0	13	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	31
% Trucks	0	2	0	0	2	0	Ö	n	0	0	0	1.3	0	0	1.3	0	0	0	0	-	1.5
				-	- 1		·	·	U	0	U	1.0	U	U	1.5	U	·	U	U	0	1.5





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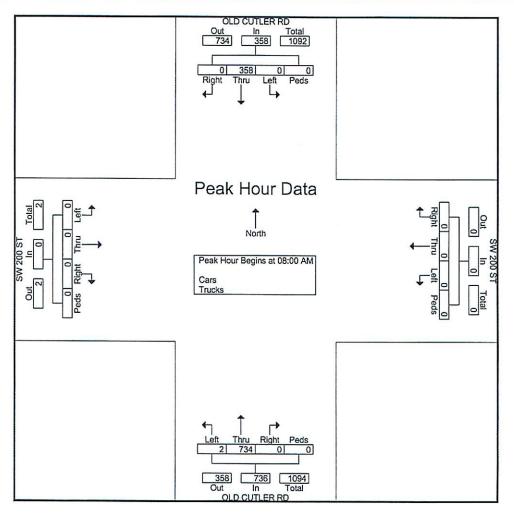
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Site Code : 00000000 Start Date : 1/17/2018

Page No : 2

		OLD	CUTL	ER RE)		S	W 200	ST			OLD	CUTL	ER RE)		S	W 200	ST		ĺ
		So	uthbo	und			W	estbo	und			No	rthbo	und			E	astbo	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour A								of 1													
Peak Hour fo	r Entir	e Inter	section	n Begin	ns at 08	00 AM	1														
MA 00:80	0	80	0	Õ	80	0	0	0	0	0	0	153	1	0	154	0	0	0	0	0	234
08:15 AM	0	96	0	0	96	0	0	0	0	0	0	197	0	0	197	0	0	Ō	0	0	293
08:30 AM	0	96	0	0	96	0	0	0	0	0	0	207	1	0	208	0	Õ	0	0	0	304
08:45 AM	0	86	0	0	86	0	0	0	0	0	0	177	Ó	0	177	0	Õ	Õ	0	o l	263
Total Volume	0	358	0	0	358	0	0	0	0	0	0	734	2	0	736	0	0	0	0	0	1094
% App. Total						180						10.00		_		-		_			1001
PHF	.000	.932	.000	.000	.932	.000	.000	.000	.000	.000	.000	.886	.500	.000	.885	.000	.000	.000	.000	.000	.900





Richard Garcia & Associates, Inc. 8065 NW 98 Street

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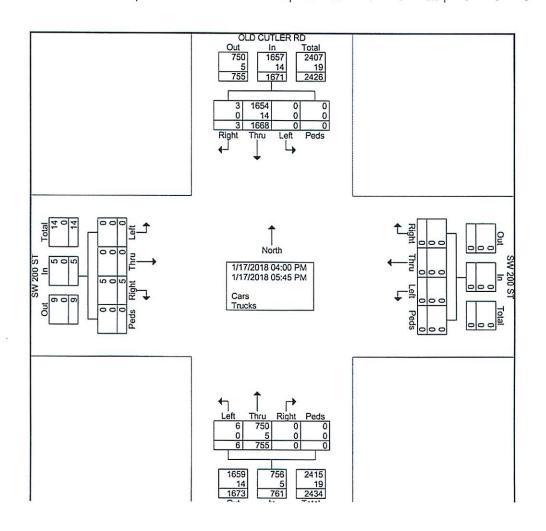
File Name: Old Cutler Rd_SW 200 St_PM

Site Code : 00000000 Start Date : 1/17/2018

Page No : 1

Groups Printed- Cars - Trucks

								Gro	ups F	rinted-	Cars	- Truc	KS								
		OLD (CUTL	ER RI)		SI	N 200	ST			OLD	CUTL	ER RI)		SI	N 200	ST		
		So	uthbo	und			We	estbo	und			No	rthbo	und			Ea	stbo	und		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
04:00 PM	0	211	0	0	211	0	0	0	0	0	0	110	0	0	110	0	0	0	0	0	321
04:15 PM	0	182	0	0	182	0	0	0	0	0	0	92	1	0	93	0	0	0	0	0	275
04:30 PM	1	189	0	0	190	0	0	0	0	0	0	101	0	0	101	0	0	0	0	0	291
04:45 PM	1	218	0	0	219	0	0	0	0	0	0	92	3	0	95	2	0	0	0	2	316
Total	2	800	0	0	802	0	0	0	0	0	0	395	4	0	399	2	0	0	0	2	1203
05:00 PM	l 4	201	0	^	202	۱ ۸	^	0		•		405	•		105		•	•	•		-
05:15 PM			0	0	202	0	0	0	0	U	١٠	105	0	0	105	1	0	0	0	1	308
05:30 PM	0	224	0	0	224	0	Ü	Ü	Ü	0	0	84	0	0	84	1	0	0	0	1	309
	ŭ	221	Ü	Ü	221	0	Ü	Ü	0	0	0	91	2	0	93	1	0	0	0	1	315
05:45 PM	0	222	0	0	222	0	0	0	0	0	0	80	0	0	80	0	0	0	0	0	302
Total	1	868	0	0	869	0	0	0	0	0	0	360	2	0	362	3	0	0	0	3	1234
Grand Total	3	1668	0	0	1671	0	0	0	0	0	0	755	6	0	761	5	0	0	0	5	2437
Apprch %	0.2	99.8	0	0		0	0	0	0		0	99.2	0.8	0	15.055.050.0	100	0	0	0	107	
Total %	0.1	68.4	0	0	68.6	0	0	0	0	0	0	31	0.2	0	31.2	0.2	0	0	0	0.2	
Cars	3	1654	0	0	1657	0	0	0	0	0	0	750	6	0	756	5	0	0	0	5	2418
% Cars	100	99.2	0	0	99.2	0	0	0	0	0	0	99.3	100	0	99.3	100	0	0	0	100	99.2
Trucks	0	14	0	0	14	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	19
% Trucks	0	8.0	0	0	0.8	0	0	0	0	0	0	0.7	0	0	0.7	0	0	Ō	0	0	0.8





Richard Garcia & Associates, Inc.

8065 NW 98 Street Hialeah Gardens, FL 33016 Phone: 305-362-0677 Fax: 305-675-6474

File Name: Old Cutler Rd_SW 200 St_PM

Site Code : 00000000 Start Date : 1/17/2018

Page No : 2

		OLD	CUTL	ER RE)		SI	N 200	ST			OLD	CUTL	ER RE)		S	W 200	ST		
			uthbo	und			W	estbo	und			No	rthbo	und			E	astbo	ind		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int Total
Peak Hour A	nalysis	From	04:00	PM to	05:45 F	M - Pe	ak 1 c	f 1												rpp. rotal	mi. rotar
Peak Hour fo	r Entir	e Inter	section	n Begir	ns at 04	:45 PM															
04:45 PM	1	218	0	Õ	219	0	0	0	0	0	0	92	3	0	95	2	0	0	0	2	316
05:00 PM	1	201	0	0	202	0	0	0	ō	Õ	o o	105	n	0	105	1	0	0	0	1	308
05:15 PM	0	224	0	0	224	0	0	0	0	Ö	Ö	84	Ô	Õ	84	1	0	0	Õ	1	309
05:30 PM	0	221	0	0	221	0	0	0	0	0	0	91	2	Õ	93	1	0	0	0	1	315
Total Volume	2	864	0	0	866	0	0	0	0	0	0	372	5	0	377	5	0	0	0	5	1248
% App. Total																		•			1240
PHF	.500	.964	.000	.000	.967	.000	.000	.000	.000	.000	.000	.886	.417	.000	.898	.625	.000	.000	.000	.625	.987

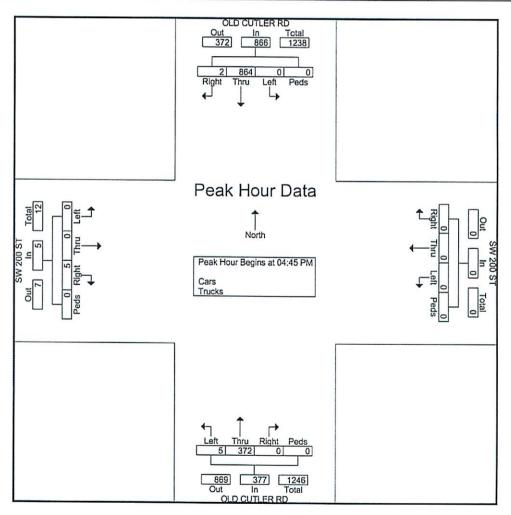
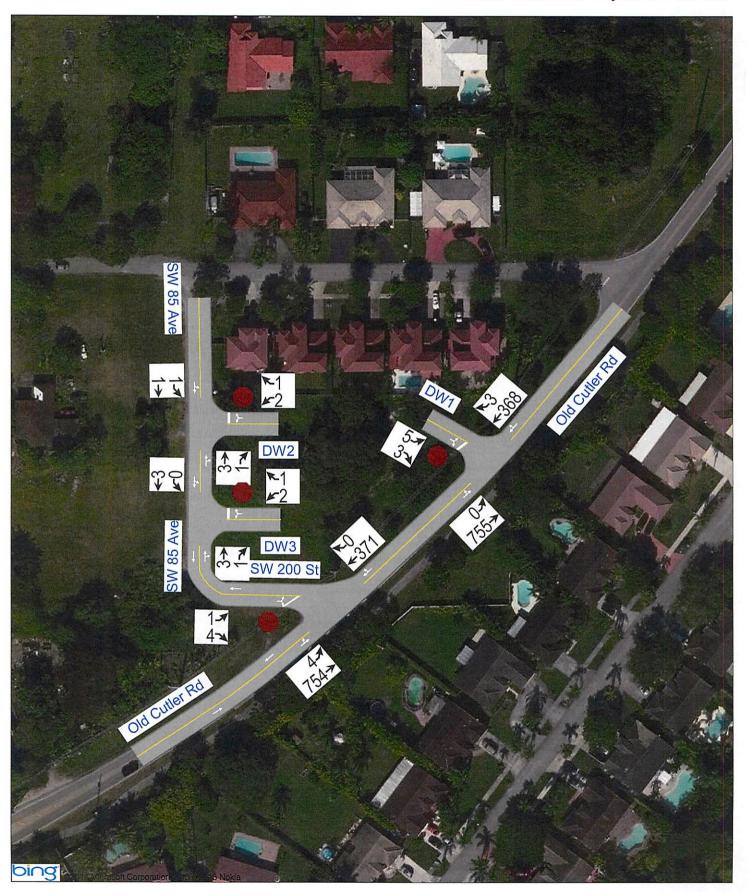


TABLE: A7
Level of Service (LOS) Summary - AM & PM Peak Hour

Project Name: Cutler Gate

Existing Condition (2018)			Α	M Peak Hou	ur			P	M Peak Hou	ur	
Location	Intersection		Overall	* Critical	Appro	ach TWSC		Overall	* Critical	Appro	ach TWSC
Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1 Old Cutler Road & SW 200 Street	Two-Way Stop	Α	0.0	_	-	1	Α	0.1	EB	С	15.6
Proposed Future Condition (with Project Trips)	(2019)		А	M Peak Hou	ır			P	M Peak Hou	ur	
Location	Intersection		Overall	* Critical	Appro	ach TWSC		Overall	* Critical	Appro	ach TWSC
Location	Control	LOS	Delay (sec)	Approach	LOS	Delay (sec)	LOS	Delay (sec)	Approach	LOS	Delay (sec)
1 Old Cutler Road & SW 200 Street	Two-Way Stop	Α	0.1	EB	В	13.4	Α	0.2	EB	С	18.4
2 Old Cutler Road & Driveway 1 (DW1)	Two-Way Stop	Α	0.1	EB	С	18.9	Α	0.2	EB	С	24.1
3 SW 85 Avenue & Driveway 2 (DW2)	Two-Way Stop	Α	3.6	WB	А	8.5	Α	1.5	WB	А	8.5
4 SW 85 Avenue & Driveway 3 (DW3)	Two-Way Stop	Α	2.6	WB	А	8.5	А	1.2	WB	А	8.6

Notes: * Critical Approach for TWSC.



Cutler Gate Future Condition w/ Project - AM Peak Hour

Intersection						
Int Delay, s/veh	0.1			over the ball of the same		
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	W			4	1>	O.VII.
Traffic Vol, veh/h	1	4	4	754	371	0
Future Vol, veh/h	1	4	4	754	371	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	AND DESCRIPTION OF THE PERSON	-	AND RESIDENCE AND REAL PROPERTY.
Storage Length	0	-	-	-	_	-
Veh in Median Storage		_	_	0	0	
Grade, %	0	_	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	1	4	4	838	412	0
IMMITTED		-		000	712	U
Name and the same	TOTAL CONTRACTOR OF THE PARTY O					
Major/Minor	Minor2		Major1	Ì	Major2	
Conflicting Flow All	1258	412	412	0	-	0
Stage 1	412	-	-	-	-	
Stage 2	846	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	_	_
Critical Hdwy Stg 2	5.42	-	-		=	-
Follow-up Hdwy		3.318	2.218	_	-	_
Pot Cap-1 Maneuver	189		1147		-	
Stage 1	669	-	-	_	-	-
Stage 2	421	-		-		-
Platoon blocked, %		and the latest and th			_	_
Mov Cap-1 Maneuver	188	640	1147			5
Mov Cap-2 Maneuver	188		_		-	_
Stage 1	664					
Stage 2	421	-	_	_	_	-
Olaye Z	741					
Approach	EB		NE		SW	
HCM Control Delay, s	13.4		0		0	
HCM LOS	В					
Minor Lane/Major Mvn	nt	NEL	NET	EBLn1	SWT	SWR
Capacity (veh/h)		1147	_	SEA CONTRACTOR SECURITION		
HCM Lane V/C Ratio		0.004		0.013	-	_
HCM Control Delay (s)		8.2	0	13.4		
HCM Lane LOS		Α	Α	В	-	-
HCM 95th %tile Q(veh)	0	-	0	-	
				J		

Cutler Gate Future Condition w/ Project - AM Peak Hour

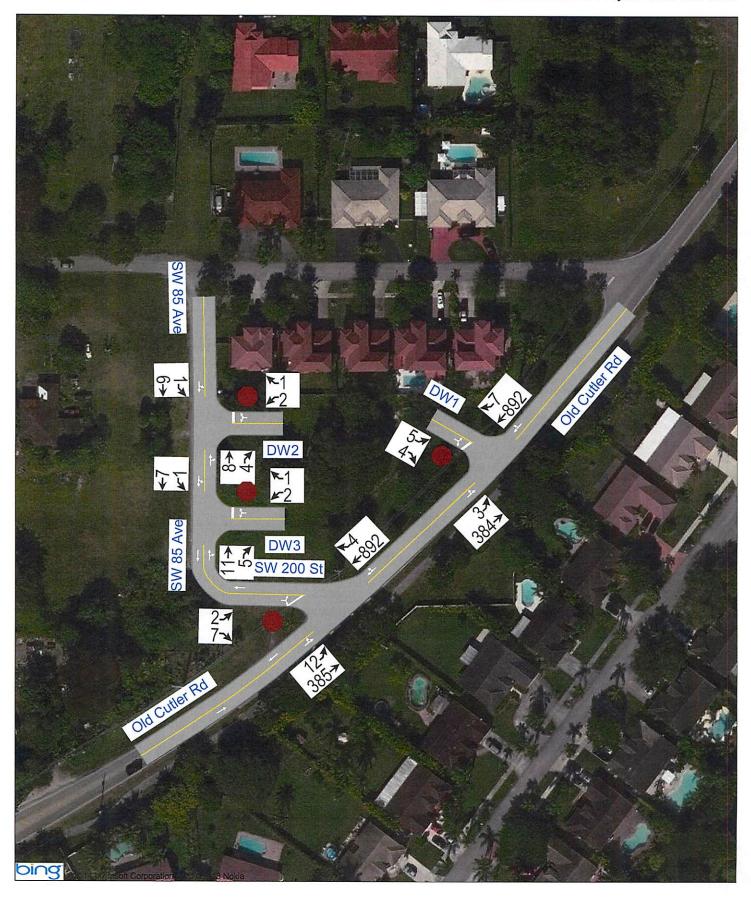
Interception						
Intersection Int Delay, s/veh	0.1					
Control	2000000			em aya galashaa		
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	A			ર્લ	ĵ»	DANES DE MANAGEMENT
Traffic Vol, veh/h	5	3	0	755	368	3
Future Vol, veh/h	5	3	0	755	368	3
Conflicting Peds, #/hr	0	0	_ 0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	•	None		None	-	None
Storage Length	0	-	-	-	-	
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	3	0	821	400	3
Major/Minor	Minor2	1	Major1	٨	//ajor2	
Conflicting Flow All	1223	402	403	0		^
	402	402	MANAGEMENT OF THE PARTY OF THE	CONTRACTOR OF THE PERSON NAMED IN	<u>-</u>	0
Stage 1			-	-	-	-
Stage 2	821	- 0.00	4.40			
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	_	-	_
Critical Hdwy Stg 2	5.42	-		-	-	-
Follow-up Hdwy		3.318			-	-
Pot Cap-1 Maneuver	198	648	1156	-	-	-
Stage 1	676	_	-	-	_	-
Stage 2	432	-	-	-	-	-
Platoon blocked, %				-	,	
Mov Cap-1 Maneuver	198	648	1156	-		-
Mov Cap-2 Maneuver	198	-	-	-	-	-
Stage 1	676	-	_	-		-
Stage 2	432	_	-	-	-	-
Approach	EB		NE		SW	
HCM Control Delay, s	18.9		0		0	
HCM LOS	10.9 C		U		U	
HOW LOS	C					
Minor Lane/Major Mvm	nt	NEL	NET	EBLn1	SWT	SWR
Capacity (veh/h)		1156	-	268	_	_
HCM Lane V/C Ratio		_	-	0.032	-	_
HCM Control Delay (s)		0	-	18.9	-	_
HCM Lane LOS		Α	-	С	-	_
HCM 95th %tile Q(veh)		0	-	0.1	_	_
	Section of the last					

Cutler Gate Future Condition w/ Project - AM Peak Hour

				NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	CTC AND DESIGNATION OF	10 YO 75 BARRADA
Intersection						
Int Delay, s/veh	3.6					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		f)			ર્ન
Traffic Vol, veh/h	2	1	3	1	1	1
Future Vol, veh/h	2	1	3	1	1	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None		NAME AND ADDRESS OF THE
Storage Length	0	-	-	_	-	-
Veh in Median Storage			0	_		0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	1	3	1	1	1
IVIVIIICT IOW			J	l.		
WWW.		W				
	Minor1		/lajor1		Major2	
Conflicting Flow All	7	4	0	0	4	0
Stage 1	4		Y51-	-	- 1	
Stage 2	3	-	-	_	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	_	-	-
Critical Hdwy Stg 2	5.42	-	-		-	-
Follow-up Hdwy		3.318	-	-	2.218	_
Pot Cap-1 Maneuver	1014	1080		-	1618	-
Stage 1	1019	-	0-	-	-	-
Stage 2	1020	-	-			_
Platoon blocked, %			-	_		_
Mov Cap-1 Maneuver	1013	1080			1618	
Mov Cap-2 Maneuver	1013	-	_		-	_
Stage 1	1018					
Stage 2	1020	-				_
Glaye Z	1020					
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		3.6	
HCM LOS	Α					
Minor Lane/Major Mvm	+	NBT	NIPDV	VPI 51	SBL	SBT
	L			VBLn1		
Capacity (veh/h)		-		1034	1618	-
HCM Cantral Pales (a)		-	-	0.003		-
HCM Control Delay (s)		-	-	8.5	7.2	0
HCM Lane LOS		_	_	A	A	Α
HCM 95th %tile Q(veh)		-	-	0	0	-

Cutler Gate
Future Condition w/ Project - AM Peak Hour

Intersection						
Int Delay, s/veh	2.6					
· · · · · · · · · · · · · · · · · · ·	alestero.	MDD	NDT	NDD	ODI	CDT
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	M	**********	f)			र्स
Traffic Vol, veh/h	2	1	3	1	0	3
Future Vol, veh/h	2	1	3	1	0	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None	-	None		None
Storage Length	0	-	-	-	-	-
Veh in Median Storage		-	0	-	_	0
Grade, %	0	_	0	_	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	1	3	1	0	3
IVIVIIIL FIOW	2		3		U	3
Major/Minor	Minor1	1	/lajor1	1	Major2	
Conflicting Flow All	7	4	0	0	4	0
Stage 1	4		-	-		
Stage 2	3	-	_	_	_	
Critical Hdwy	6.42	6.22			4.12	
Critical Hdwy Stg 1	5.42	0.22	-		7.14	
Critical Hdwy Stg 2	5.42	-	<u>-</u>			-
			-			-
Follow-up Hdwy		3.318	_	-	2.218	-
Pot Cap-1 Maneuver	1014	1080	-	-	1618	-
Stage 1	1019	-	-	-	-	-
Stage 2	1020	-			-	-
Platoon blocked, %				3. m		-
Mov Cap-1 Maneuver	1014	1080	-	-	1618	-
Mov Cap-2 Maneuver	1014	-	_	-	-	-
Stage 1	1019	_		_	-	_
Stage 2	1020	_	_	_	<u>=</u>	_
Jugo 2	1020					
PART OF STREET	San Dillo Calle					
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		0	
HCM LOS	Α					
Minor Long/Major Minor	.4	NDT	MDDW	VDI -4	CDI	CDT
Minor Lane/Major Mvm	IL	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-		1035	1618	-
HCM Lane V/C Ratio		-	_	0.003	-	_
HCM Control Delay (s)		-	-	8.5	0	-
HCM Lane LOS			-	Α	Α	-
HCM 95th %tile Q(veh)			<u>.</u>	0	0	
-						



Cutler Gate Future Condition w/ Project - PM Peak Hour

Intersection						
Int Delay, s/veh	0.2					
Movement	EDI	EDD	NEL	NET	CIAIT	CIMD
	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	N/F	-	40	4	1	
Traffic Vol, veh/h	2	7	12	385	892	4
Future Vol, veh/h	2	7	12	385	892	4
Conflicting Peds, #/hr	0	0	_ 0	_ 0	_ 0	_ 0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	•	None	-	None	-	None
Storage Length	0	-	-	_	-	-
Veh in Median Storage	e,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	99	99	99	99	99	99
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	2	7	12	389	901	4
	on recording to					
		SW-2202111033				Name of the last o
	Minor2		Major1		Major2	
Conflicting Flow All	1316	903	905	0	-	0
Stage 1	903	-	-	-		-
Stage 2	413	-	-	92	_	-
Critical Hdwy	6.42	6.22	4.12	-	-	
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-		
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	174	336	752		-	_
Stage 1	396	-	_	-	<u>.</u>	
Stage 2	668					
Platoon blocked, %	500			_		_
Mov Cap-1 Maneuver	171	336	752			
Mov Cap-1 Maneuver	171	No. of the Contract of the Con	ACTION OF WAR	-		
						-
Stage 1	388	-	-	-	-	-
Stage 2	668	-	-	_	-	_
Approach	EB		NE		SW	
HCM Control Delay, s	18.4		0.3		0	
HCM LOS	C	N. T. W. O'C	0.0		U	
HOW LOS	U					
Minor Lane/Major Mvn	nt	NEL	NET	EBLn1	SWT	SWR
Capacity (veh/h)		752	-	277		
HCM Lane V/C Ratio		0.016		0.033	-	_
HCM Control Delay (s)		9.9	0	18.4	-	- T
HCM Lane LOS		A	A	C	-	
HCM 95th %tile Q(veh)	0		0.1		
HOW OUT TOUC WIVEL	1	U	A STATE OF THE STATE OF	0.1		

Cutler Gate
Future Condition w/ Project - PM Peak Hour

Intersection						
Int Delay, s/veh	0.2					
Movement	EBL	EBR	NEL	NET	SWT	SWR
Lane Configurations	W	LDIC	INEL	4	\$\frac{1}{2}	OVVIX
Traffic Vol, veh/h	5	4	3	384	892	7
Future Vol, veh/h	5	4	3	384	892	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None		None	-	None
Storage Length	0	_			-	
Veh in Median Storage		-	-	0	0	-
Grade, %	0	-	-	0	0	_
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	4	3	417	970	8
Major/Minor	Minor2		Major1	1	Major2	
Conflicting Flow All	1397	974	978	0	-	0
Stage 1	974	-	-	-	-	-
Stage 2	423	-	-	-	-	20
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	_	_	-
Critical Hdwy Stg 2	5.42	-	-	-	-	
Follow-up Hdwy		3.318		-	_	-
Pot Cap-1 Maneuver	155	306	706	-	-	-
Stage 1	366	-	-	_	_	2
Stage 2	661	-	-	-	-	-
Platoon blocked, %	151	000	700	-	_	_
Mov Cap-1 Maneuver	154	306	706	-	-	-
Mov Cap-2 Maneuver	154	-	-	.=	-	-
Stage 1	364	-	-	-	•	
Stage 2	661				-	
Approach	EB		NE		SW	
HCM Control Delay, s	24.1		0.1		0	
HCM LOS	С					
Minor Lane/Major Mvn	nt	NEL	NET	EBLn1	SWT	SWR
Capacity (veh/h)		706				-
HCM Lane V/C Ratio		0.005		0.049	-	-
HCM Control Delay (s)		10.1	0	24.1	-	-
HCM Lane LOS		В	Α	С	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-
The state of the s						

Cutler Gate Future Condition w/ Project - PM Peak Hour

Intersection						
Int Delay, s/veh	1.5					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	N/		4	.,,,,,	ODL	4
Traffic Vol, veh/h	2	1	8	4	1	6
Future Vol, veh/h	2	1	8	4	1	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	A SPECIAL PROPERTY AND ADDRESS.
Storage Length	0	-	-	-	-	-
Veh in Median Storage			0			0
Grade, %	0	-	0	_	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	1		4	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	7
IVIVIIIL FIOW	2		9	4	1	- 1
Major/Minor	Minor1	N	Major1		Major2	
Conflicting Flow All	20	11	0	0	13	0
Stage 1	11					
Stage 2	9	-	-	_	_	
Critical Hdwy	6.42	6.22		_	4.12	_
Critical Hdwy Stg 1	5.42	-	_	_	7.12	_
Critical Hdwy Stg 2	5.42					
Follow-up Hdwy	3.518		_	-	2.218	<u>-</u>
Pot Cap-1 Maneuver	997	1070			1606	_
Stage 1	1012	-			-	-
Stage 2	1012					_
Platoon blocked, %	1014					-
Mov Cap-1 Maneuver	996	1070			1606	
	996	10/0		-	1000	-
Mov Cap-2 Maneuver		_	HARMES -	-	.	_
Stage 1	1011	-	-	-	•	-
Stage 2	1014	-	-	-	-	_
Approach	WB		NB		SB	
HCM Control Delay, s	8.5		0		1	
HCM LOS	Α		U			
					THE PARTY OF	
Minor Lane/Major Mvm	nt	NBT		VBLn1	SBL	SBT
Capacity (veh/h)		-		1020	1606	-
HCM Lane V/C Ratio		-	-	0.003	0.001	-
HCM Control Delay (s)		-	-	8.5	7.2	0
HCM Lane LOS		-	.=.	Α	Α	Α
HCM 95th %tile Q(veh))	-	-	0	0	-
• • • • • • • • • • • • • • • • • • • •						

Cutler Gate
Future Condition w/ Project - PM Peak Hour

Internation		Vertile Section			NO STATE	
Intersection	4.0					
Int Delay, s/veh	1.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		1>			4
Traffic Vol, veh/h	2	1	11	5	1	7
Future Vol, veh/h	2	1	11	5	1	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized		None		None		
Storage Length	0	-	-	_	-	-
Veh in Median Storage		-	0		-	0
Grade, %	0	_	0	-	_	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	2	1	12	5	1	8
manic 10W			12	J		U
120000000000000000000000000000000000000						
Major/Minor	Minor1	٨	//ajor1		Major2	
Conflicting Flow All	25	15	0	0	17	0
Stage 1	15		-	-	-	
Stage 2	10	-	-	_	-	_
Critical Hdwy	6.42	6.22	-	_	4.12	_
Critical Hdwy Stg 1	5.42	-	-	-	-	_
Critical Hdwy Stg 2	5.42	-				
Follow-up Hdwy		3.318	-	_	2.218	-
Pot Cap-1 Maneuver	991	1065			1600	
Stage 1	1008	-			- 1000	
Stage 2	1013					
Platoon blocked, %	1010					
Mov Cap-1 Maneuver	990	1065			1600	
		**************		-		-
Mov Cap-2 Maneuver	990	-	-	-	-	
Stage 1	1007	-	-	-	-	-
Stage 2	1013		_	-	-	
Approach	WB		NB		SB	
HCM Control Delay, s	8.6		0	STORE !	0.9	
HCM LOS	Α		U		0.0	
HOW LOO						
Minor Lane/Major Mvn	nt	NBT	NBRV	VBLn1	SBL	SBT
Capacity (veh/h)				1014	1600	-
HCM Lane V/C Ratio		-	-	0.003	0.001	-
HCM Control Delay (s)		-		8.6	7.3	0
HCM Lane LOS		-	-	Α	Α	Α
HCM 95th %tile Q(veh)	-	-	0	0	

TABLE: A8

ROADWAY ANALYSIS - AM & PM PEAK HOUR EXISTING CONDITION (2018) & FUTURE CONDITION (2019)

Project Name: Cutler Gate

	1	2	3		4		5	6		7	
	Roadway Analysis -	AM Peak Hour		Roadway	Segment		De alegger and Consulth	Dustant	Roadway Segment		
	Roadway Old Cutler Road	Location	LOS / Volume Standard	Existing Two-Way Volume (2018)	Available Capacity	LOS	Background Growth @ 1.76% - 1 Year Build-Out (2019)	Project Gross Trips (2019)	Proposed Traffic Volume (2019)	Available Capacity	Los
1	Old Cutler Road	East of SW 87 Avenue	LOS D / 1,600 VPH Class I - 2LU	1,105	495	С	19	9	1,133	467	С
	Roadway Analysis -	PM Peak Hour		Roadway	Segment				Roadway Segment		
	Roadway	LOS / Volu Location Standar		Existing Two-Way Volume (2018)	Available Capacity	LOS	Background Growth @ 1.76% - 1 Year Build-Out (2019)	Project Gross Trips (2019)	Proposed Traffic Volume (2019)	Available Capacity	LOS
1	Old Cutler Road	East of SW 87 Avenue	LOS D / 1,600 VPH	1,258	342	С	22	16	1,297	303	С

Notes:

- 1 Roadway Name
- 2 Location
- 3 Roadway / Volume Standard *
- 4 Existing Roadway Segment Two-Way Volume, Available Capacity & LOS**
- 5 Backgroung Traffic Growth by 2019

- 6 Project Gross Trips by 2019
- 7 Proposed Roadway Segment Two-Way Volume, Available Capacity & LOS by Year 2019
- * LOS / Volume Standard based on the FDOT generalized Table 4 (Peak Hour Two-Way Volumes for Florida's Urbanized Areas).
- ** Existing Roadway volumes obtained from TMC's

	Miami-Dade County Traffic Stations													
STATION	ROADWAY	LOCATION	CL	MAX	PHP	START	DOS TRIPS	AVAILABLE TRIPS	5%	6 10%	EXISTING LOS	ADOPTED LOS	CONCURRENCY LOS	
9558	NW 199 ST/HONEY HILL DR	W/O NW 27 AVE TO NW 37 AVE	4	5088	1732	3356	0	3356	0	0	В	EE	В	
9560	NW 199 ST/HONEY HILL DR	W/O NW 37 AVE TO NW 57 AVE	4	2640	1568	1072	2	1070	0	0	D	D	D	
9562	NW 202 ST	W/O NW 57 AVE TO 67 AVE	2	1350	1090	260	4	256	0	0	С	D	С	
9576	OKEECHOBEE RD (US 27)	SE/O NW 74 ST FROM NW 62 AVE TO NW 67 AVE	0	4450	4559	-109	69	-178	1	0	F	E	E+4	
9582	OLD CUTLER RD	SW/O SW 72 ST TO SW 88 ST	2	950	1455	-505	0	-505	1	0	F	E	E+53	
9584	OLD CUTLER RD	SW/O SW 88 ST TO SW 57 AVE	2	1190	0	1190	0	1190	0	0		Е		
9586	OLD CUTLER RD	SW/O SW 136 ST TO SW 152 ST	2	2730	1188	1542	0	1542	0	0	Α	E	Α	
9588	OLD CUTLER RD	SW/O SW 152 ST TO SW 168 ST	2	3240	1485	1755	0	1755	0	0	В	E	В	
9590	OLD CUTLER RD	S/O SW 168 ST TO SW 184 ST	2	2500	1476	1024	0	1024	0	0	С	E	С	
9592	OLD CUTLER RD	SW/O SW 184 ST TO FRANJO ROAD	2	0	1185	-1185	0	-1185			Е	D	E	
9594	OLD CUTLER RD	SW/O FRANJO RD TO SW 216 ST	2	1610	1695	-85	48	-133	1	0	F	D	E+3	
9596	OPA LOCKA BLVD (1-WAY WB)	W/O I-95 TO NW 17 AVE	3	3560	1101	2459	0	2459	0	0	С	E	С	
9598	NW 52 AVE/PALM AVE	S/O E/W 21 ST (HIALEAH) TO OKEECHOBEE	2	1490	805	685	0	685	0	0	D	E	D	
9600	NW 52 AVE	S/O NW 103 ST - NW 74 ST TO NW 119 ST	4	3290	1867	1423	0	1423	0	0	С	Е	С	
9618	PERIMETER ROAD	E/O NW 57 AVE BET NW 47 AVE TO NW 72 AVE	2	2150	1483	667	23	644	0	0	В	Е	В	
9622	PONCE DE LEON BLVD	S/O SW 8 ST TO ALHAMBRA CIRCLE	4	2880	1139	1741	0	1741	0	0	E	E+20	E	
9624	PONCE DE LEON BLVD	N/O SW 40 ST TO ALMERIA AVE	4	4164	1217	2947	0	2947	0	0	С	E+20	С	
9628	NW 57 AVE	S/O NW 74 ST CONN TO OKEECHOBEE ROAD	4	2310	0	2310	0	2310	0	0		E		
9629	NW 57 AVE/RED RD (SR 823)	N/O NW 183 ST TO NW 215 ST/COUNTY LINE	6	4710	3314	1396	0	1396	0	0	С	D	С	

Exhibit "C3" (Page 45 of 52)

COUNTY: 87
STATION: 8310
DESCRIPTION: OLD CUTLER RD, 200' SOUTH OF FRANJO RD
START DATE: 02/04/2016 3

			ECTION:	N			DIR	ECTION:	S		COMBINE
TIME	1ST	2ND	3RD	4TH	TOTAL	1ST	2ND	3RD	4TH	TOTAL	TOTAL
0000	20	12	14	13	59	23	24	23	18	88	147
0100	12	10	4	6	32	8 5	11	8	7	34	66
0200	3	7	3 2	7	20	5	4	4	6	19	39
0300	3 4 5	5	2	3	14	4	13	4	7	28	1 42
0400	5	12	13	16	46	4	7	8	9	28	74
0500	19	42	72	112	245	14	18	30	27	89	334
0600	135	124	145	154	558	39	27	41	54	161	719
0700	169	212	195	205	781	75	93	98	116	382	1163
0800	189	173	172	158	692	115	136	108	124	483	1175
0900	136	143	119	136	534	104	108	104	100	416	950
1000	121	126	119	127	493	107	108	112	116	443	936
1100 1200	118 138	116 144	132	131	497	94	112	123	127	456	953
1300	148	150	127 158	139	548	136	140	129	145	550	1098
1400	150	148	155	124 163	580 616	137 168	160	166	154	617	1197
1500	151	158	158	147	614	190	156 162	144 202	171 196	639 750	1255
1600	133	152	169	145	599	196	181	188	196	761	1360
1700	144	149	141	158	592	214	220	214	209	857	1 1449
1800	150	133	135	150	568	201	206	206	209	822	1 1390
1900	158	146	128	118	550 i	204	212	183	196	795	1 1345
2000	112	127	100	98	437 i	188	158	130	119	595	1032
2100	83	80	65	64	292 i	117	97	92	92	398	690
2200	73	71	52	41	237 i	68	75	63	59	265	502
2300	36	32	21	15	104 i	44	36	35	23	138	242
24 - HOU	R TOTALS	 S:			9708					9814	19522

	DIREC	TION: N		INFORMATION TION: S	COMBINED	DIRECTIONS
A.M. P.M. DAILY	HOUR 715 1445 715	VOLUME 801 630 801	HOUR 800 1700 1700	VOLUME 483 857 857	HOUR 730 1700 1700	VOLUME 1227 1449 1449

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FLORIDA DEPARTMENT OF TRANSPORTATION TRANSPORTATION STATISTICS OFFICE 2016 HISTORICAL AADT REPORT

COUNTY: 87 - MIAMI-DADE

SITE: 8310 - OLD CUTLER RD, 200' SOUTH OF FRANJO RD

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2016	17900 C	N 8900	\$ 9000	9.00	56.10	13.50
2015	15800 T	N 8100	\$ 7700	9.00	57.40	13.70
2014	16000 S	N 8200	\$ 7800	9.00	59.30	17.40
2013	16200 F	N 8300	\$ 7900	9.00	58.90	16.20
2012	16200 C	N 8300	\$ 7900	9.00	59.70	16.00

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

THE CORRADINO GROUP, INC.

ENGINEERS · PLANNERS · PROGRAM MANAGERS · ENVIRONMENTAL SCIENTISTS

date:

CORRADINO

March 9, 2018

to:

Kathryn Lyon, Planning Director

from:

Gregory A. Prytyka, P.E., Chief Engineer

project #:

3896*76

subject:

Cutler Gate Traffic Impact Study

MEMORANDUM

The Corradino Group, Inc (Corradino) has been requested to review a "Traffic Impact Statement" for the "Cutler Gate" development (the report) submitted by Richard Garcia & Associates (RGA), dated January 23, 2018. As reported, the proposed Cutler Gate development is sited at 8495 SW 200th Street in Cutler Bay, and will be comprised of a 36-unit, mid-rise, multi-family housing complex, and a retail element of 4,186 square feet (ft²). The following are our comments:

Roadway Analysis - LOS & Capacity

• Despite the one-day data collection performed at the site, based on information readily available from the FDOT website Florida Traffic Online (2016), the AADT on Old Cutler Road at Site 878310 – Old Cutler Road, 200' South of Franjo Rd, is 17,900, with a K factor of 9%. Performing the proper calculations on these data indicate that the peak hour traffic on Old Cutler Road is approximately 1,611 vehicles per hour (vph). The report references the 2013 FDOT Quality/Level of Service (QLOS) Handbook as the standard for determining Level of Service versus traffic volumes. Because the speed limit on Old Cutler Road is 40 mph, the report places this roadway in the "State Signalized Arterials" category, with a two-lane Level of Service (LOS) D capacity of 1,600 vph. Although we disagree with this categorization, giving the benefit of the doubt, Old Cutler Road currently operates at LOS F. References given above are attached.

Trip Generation

• The site plan provided does not provide sufficient detail to determine which area is being used for retail as opposed to housing. This, in turn will govern the types of land use classifications used to determine trip generation. The description given for ITE Trip Generation Land Use Code (LUC) 221, Multifamily Housing (Mid-Rise) indicates "Mid-Rise Multifamily Housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have between three and 10 levels (floors)."

It is unknown if the dwelling units in this development occupy two or three floors, internally or separately, excluding the retail space which is assumed to occupy the street level. If the housing element of the development occupies only two floors of the buildings, LUC 220, Multifamily Housing (Low-Rise) should be used.

- The use of Land Use Code (LUC) 820 Shopping Center for 4,186 ft² of retail is questionable. The additional data description given for LUC 820, Shopping Center states "Shopping centers, including neighborhood centers, community centers, regional centers, and super regional centers, were surveyed for this land use. Some of these centers contained non-merchandising facilities, such as office buildings, movie theaters, restaurants, post offices, banks, health clubs, and recreational facilities (for example, ice skating rinks or indoor miniature golf courses)." The average size of shopping centers surveyed for the ITE AM peak trip generation rates was 251,000 ft², and 327,000 ft² for the PM peak, with a daily survey representing shopping centers of 435,000 ft². Because the retail use (4,186 ft²) is minimal, trip generation should be calculated for each shop individually, based on anticipated uses.
- If it is acceptable to Cutler Bay, trip generation calculations based on LUC 820, Shopping Center, should be calculated using fitted curve equations rather than on average rates. Using the fitted curve equations, our analysis indicates that there should be a total of 101 trips in the AM peak and 69 trips during the PM peak. Calculations reflecting these results are attached.
- Once an accurate accounting of trip generation is presented, allowances should be made for multimodal trips, internal capture using NCHRP 684 methodology, and pas-by capture based on ITE Trip Generation Handbook, 3rd Edition.

Trip Distribution

• Trip distribution will require recalculation based upon actual trip generation results.

Proposed Future Conditions

• Proposed future conditions will require recalculation based upon actual trip generation results.

Thank you for the opportunity to review this traffic impact statement. If you have any questions or comments, please feel free to contact me.

Site Information	
Feature	1
Road Name	OLD CUTLER RD
Site	878310
Description	OLD CUTLER RD, 200' SOUTH OF FRANJO R D
Section	87067500
Milepoint	2.222
AADT	17900
Site Type	Portable
Class Data	No
K Factor	9
D Factor	56.1
T Factor	13.5
TRAFFIC RE	EPORTS (provided in 💆 format)
Miami-Dade County	Annual Average Daily Traffic
	Historical AADT Data
	Synopsis 878310
18 00年 1800年 1	

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12/18/12

TABLE 4

Generalized **Peak Hour Two-Way** Volumes for Florida's **Urbanized Areas**¹

	INTERR	UPTED FLO	OW FACII	LITIES			UNINTER	RRUPTED	FLOW FA	A SECURITY OF STREET	12/18/12
	STATE SI				•						
					,	Lanes	В	FREEV C	WAYS	D	Е
Lanes 2 4 6	Class I (40) Median Undivided Divided Divided Divided	mph or highe B * * *	r posted sp C 1,510 3,420 5,250 7,090	D 1,600 3,580 5,390 7,210	E ** ** **	4 6 8 10 12	4,120 6,130 8,230 10,330 14,450	5,54 8,37 11,10 14,04 18,88	70 10 00 13 10 16	5,700 0,060 3,390 5,840 2,030	7,190 11,100 15,010 18,930 22,860
Lanes 2 4 6 8	b	B * * *	C 660 1,310 2,090 2,880 Dadway A s state volun	D 1,330 2,920 4,500 6,060	E 1,410 3,040 4,590 6,130	Pres	Auxiliary Land ent in Both Dire + 1,800		ljustment	Ramp Metering + 5%	
Lanes 2	Median Median Divided	& Turn La Exclusive Left Lanes Yes	ne Adjus Exclus Right L No	tments ive Acanes	djustment Factors +5%	Lanes 2	UNINTERR Median Undivided	В 770	C 1,530	D 2,170	E 2,990
2 Multi Multi –	Undivided Undivided Undivided	No Yes No –	No No No Yes		-20% -5% -25% + 5%	6	Divided Divided Uninterrupt				
	Multiply th	Vay Facility ne correspond numes in this t	ing two-dir	ectional		Lanes 2 Multi Multi	Median Divided Undivided Undivided	Exclusive Ye Ye N	es es	Adjustme +5 -5' -25	% %
	Bultiply motorized etional roadway la		es shown be ine two-way			are for the	shown are presented the automobile/truck the a standard and sho tr models from which applications. The ta	modes unless s ould be used on h this table is d	pecifically stat ly for general perived should be	ed. This table do planning applica be used for more	tions. The
	Shoulder/Bicy ne Coverage 0-49%	cle B *	C 260	D 680	E 1,770	based on	or intersection design planning application and Quality of Serv	ns of the High	refined technic way Capacity N	ques exist. Calcu Manual and the T	lations are ransit
	50-84% 85-100%	190 830	600 1,770	1,770 >1,770	>1,770	of motor	of service for the bic ized vehicles, not no er hour shown are only	imber of bicyc	lists or pedestri	ians using the fa	cility.
direc	altiply motorized etional roadway la	anes to determ volume	es shown be ine two-way s.)	low by numb maximum s	service	** Not a	ot be achieved using pplicable for that lev greater than level or	vel of service le	etter grade. For		
	walk Coverage 0-49% 50-84% 85-100%	* * * * * * * * * * * * * * * * * * *	C * 150 960	D 250 780 1,560	E 850 1,420 >1,770		ched. For the bicycle le because there is r faults.				
	BUS MOD	E (Schedu			3						
	walk Coverage 0-84% 85-100%	::::::::::::::::::::::::::::::::::::::	C ≥ 4 ≥ 3	D ≥ 3 ≥ 2	E ≥ 2 ≥ 1	Systems	Department of Trans Planning Office t state fl. us/planning		s/default.shtm		

TABLE 1 - WEEKDAY AM PEAK HOUR TRIP GENERATION

PROPOSED DEVELOPMENT											
ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES				
Land Use	LUC	Qty	Units	Percent		AM Peak		AM Total			
				In	Out	In	Out	Alvi Total			
Multifamily Housing (Mid-Rise)	221	36	DU	26%	74%	3	9	13			
Shopping Center (LUC 820)	820	4,186	sq ft	62%	38%	55	34	89			
TOTALS						58	43	101			

Source: Institute of Transportation Engineers' Trip Generation Manual, 10th Edition

TABLE 4 - WEEKDAY PM PEAK HOUR TRIP GENERATION

PROPOSED DEVELOPMENT											
ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES				
Land Use	LUC	Qty	Units	Percent		PM Peak		PM Total			
				ln	Out	In	Out	PIVI TOLAI			
Multifamily Housing (Mid-Rise)	221	36	DU	61%	39%	10	6	17			
Shopping Center (LUC 820)	820	4,186	sq ft	48%	52%	25	27	52			
TOTALS						35	33	69			

Source: Institute of Transportation Engineers' Trip Generation Manual, 10th Edition