



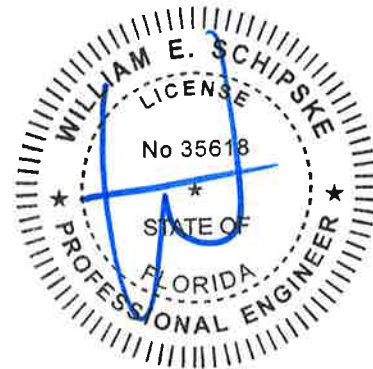
TRAFFIC STATEMENT REPORT

For

DELRAY BUSINESS INCUBATOR

**SW 13th, Delray Beach, Florida
TAC ID-**

September 25, 2023



William E. Schipske, P.E. Reg. No. 35618

IMPROVING COMMUNITIES. CREATING ENVIRONMENTS.

South Florida Office: 5747 N Andrews Way • Fort Lauderdale, Florida 33309-2364

(954) 436-7000 • Fax: (954) 493-6539

www.millerlegg.com

According to our site plan, based upon the total building area of 33,195 sf, the project required parking is 62 total spaces 22% office/78% warehouse. For the purposes of this statement, we will use the Palm Beach County 2022 Trip Generation Rates for:

Industrial Warehouse @ $(1.71 \text{ trips per day} \times 26,014 \text{ sf})/1000\text{sf} = 44.48 \text{ daily trips}$
General Office @ $(10.84 \text{ trips per day} \times 7,181 \text{ sf})/1000\text{sf} = \underline{77.84} \text{ daily trips}$
Total Average Daily Trips = 122.32 daily trips

The ADT inbound for AM peak hour trips is:

Industrial Warehouse = $77\% \text{ ADT} \times 44.48 \text{ ADT} = 34.25 \text{ trips}$
General Office = $88\% \text{ ADT} \times 77.84 \text{ ADT} = \underline{68.50} \text{ trips}$
Total Inbound AM Trips per day = 102.75 trips

PBC ADT for this project is 102.75 average AM trips per day. Assuming AM inbound trips between 7 and 9 AM = 51.38 trips per hour. There are 4 driveways on the project site, 2 on SW 13th Avenue and 2 on SW 14th Avenue. Therefore, there will be 6.43 trips per hour per driveway. That's approximately 1 entrance trip per 10+/- minutes per driveway.

According to Section 4.6.9 (D)(c) 2. States that:

The minimum stacking distance may be reduced to a minimum of 20 feet for parking lots containing more than 50 parking spaces when the parking lot is designed and operated with two or more access points. This reduction in stacking distance is subject to approval by the City Engineer based on the following: (Ord. No. 11-20, § 3, 12-8-20)

- a. The primary access point to the parking lot is not located along a collector or arterial street; and (Ord. No. 11-20, § 3, 12-8-20)
- b. A Traffic Statement or Study identifies that the site will generate no more than 200 ADT; or (Ord. No. 11-20, § 3, 12-8-20)
- c. A dedicated right turn lane measuring at least 50 feet in length from the primary access point is located along a collector or arterial street. (Ord. No. 11-20, § 3, 12-8-20)

From this Traffic Statement Section 4.6.9 (D)(2) a. and b. conditions for approval are met.

Relief from condition 4.6.9 (D)(2) c. is **requested**.

The project site has 4 access points with varying stacking depths. On SW 13th Ave., the south entrance = 30' and the north entrance = 40'. On SW 14th Ave., the south entrance = 35.5' and the north entrance = 45'. Considering that the maximum trips per hour at each entrance is 6.43 which averages one vehicle every 10+/- minutes. Vehicles entering the project site have 4 inbound opportunities as the project site connects to SW 8th St on the north and SW 10th St on the south providing easy access to all the driveways of the project site. Should one vehicle occupy a driveway while another vehicle needs to enter the project site, that vehicle has 3 other driveways available to gain entry. Therefore, the requirement of a dedicated turn lane is not warranted.



Palm Beach County Trip Generation Rates

(Must be used with traffic studies submitted to the County on or after 9/1/2022. However, immediate use is highly recommended)

Gr	Landuse	ITE Code	Unit	Daily Rate/Equation	Pass-By %	AM Peak Hour		PM Peak Hour	
						In/Out	Rate/Equation	In/Out	Rate/Equation
Industrial	General Light Industrial	110	1000 S.F.	4.87	10%	88/12	0.74	14/86	0.65
	Manufacturing	140	1000 S.F.	4.75	10%	76/24	0.68	31/69	0.74
	Warehouse	150	1000 S.F.	1.71	10%	77/23	0.17	28/72	0.18
	Mini-Warehouse/SS	151	1000 S.F.	1.45	10%	59/41	0.09	47/53	0.15
	HCF Center Warehouse - Non Sort	155	1000 S.F.	1.81	10%	81/19	0.15	39/61	0.16
Residential	Single Family Detached	210	Dwelling Unit	10	0%	26/74	0.7	63/37	0.94
	Multifamily Low-Rise Housing upto 3 story (Apartment/Condo/TH)	220	Dwelling Unit	6.74	0%	24/76	0.4	63/37	0.51
	Multifamily Mid-Rise Housing 4-10 story (Apartment/Condo/TH)	221	Dwelling Unit	4.54	0%	23/77	0.37	61/39	0.39
	55+ SF Detached	251	Dwelling Unit	4.31	0%	33/67	0.24	61/39	0.30
	55+ SF Attached	252	Dwelling Unit	3.24	0%	34/66	0.2	56/44	0.25
	Congregate Care Facility	253	Dwelling Unit	2.21	0%	58/42	0.08	49/51	0.18
	Assisted Living Facility	254	Beds	2.6	0%	60/40	0.18	39/61	0.24
	Hotel	310	Rooms	7.99	10%	56/44	0.46	51/49	0.59
	Golf Course	430	Holes	30.38	5%	79/21	1.76	53/47	2.91
	Health/Fitness Club	492	1000 S.F.	32.93	5%	51/49	1.31	57/43	3.45
Institutional	Elementary School	520	Students	2.27	0%	54/46	0.74	46/54	0.16
	Middle/Junior School	522	Students	2.1	0%	54/46	0.67	48/52	0.15
	High School	525	Students	1.94	0%	68/32	0.52	48/52	0.14
	Private School (K-8)	530	Students	3.17 ^a	0%	56/44	1.01	46/54	0.26
	Private School (K-12)	532	Students	2.48	0%	63/37	0.79	43/57	0.17
	Church/Synagogue ^b	560	1000 S.F.	7.6	5%	62/38	0.32	44/56	0.49
	Day Care	565	Students	4.09	50%	53/47	0.78	47/53	0.79
	Library	590	1000 S.F.	72.05	10%	71/29	1	48/52	8.16
	Hospital	610	1000 S.F.	10.77	10%	67/33	0.82	35/65	0.86
	Nursing Home	620	Beds	3.06	10%	72/28	0.14	33/67	0.14
Med	General Office (10k-250k SF GFA) ⁿ	710	1000 S.F.	10.84	10%	88/12	1.52	17/83	1.44
	General Office (>250k SF GFA) ⁿ	710	1000 S.F.	$\text{Ln}(T) = 0.87 \text{Ln}(X) + 3.05$	10%	88/12	$\text{Ln}(T) = 0.86 \text{Ln}(X) + 1.16$	17/83	1.44
	Small Office Building (<=10k SF GFA)	712	1000 S.F.	14.39	10%	82/18	1.67	34/66	2.16
	Medical Office (Stand-Alone)	720	1000 S.F.	$T=42.97(X)-108.01$	10%	79/21	3.10	30/70	3.93
	Medical Office (Near Hospital)	720	1000 S.F.	31.86	10%	81/19	2.68	25/75	2.84
Office	Government Office	730	1000 S.F.	22.59	10%	75/25	3.34	25/75	1.71

Palm Beach County Trip Generation Rates

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Gr	Landuse	ITE Code	Unit	Daily Rate/Equation	Pass-By %	AM Peak Hour		PM Peak Hour	
						In/Out	Rate/Equation	In/Out	Rate/Equation
Retail	Nursery (Garden Center)	817	Acre	108.1	0%	50/50	2.82	50/50	8.06
	Nursery (Wholesale)	818	Acre	19.50	0%	50/50	0.23	50/50	0.36
	Landscape Services	PBC	Acre ^c	121.70	0%	40/60	34.4	58/42	15.1
	Shop Center (>150ksf)	820	1000 S.F.	37.01	24%	62/38	0.84	48/52	3.4
	Shop Plaza (40-150ksf) w/Sup Market	821	1000 S.F.	94.49	39%	62/38	3.53	48/52	9.03
	Shop Plaza (40-150ksf) w/out Sup Market	821	1000 S.F.	67.52	39%	62/38	1.73	49/51	5.19
	Strip Retail Plaza (<40ksf)	822	1000 S.F.	54.45	63%	60/40	2.36	50/50	6.59
	Automobile Sales (New)	840	1000 S.F.	27.84	15%	73/27	1.86	40/60	2.42
	Automobile Parts Sales	843	1000 S.F.	54.57	28%	55/45	2.51	48/52	4.9
	Tire Store	848	1000 S.F.	27.69	28%	64/36	2.61	43/57	3.75
	Supermarket	850	1000 S.F.	93.84	36%	59/41	2.86	50/50	8.95
	Pharmacy + DT	881	1000 S.F.	108.40	50%	52/48	3.74	50/50	10.25
	Drive-In Bank	912	1000 S.F.	100.35	47%	58/42	9.95	50/50	21.01
	Fine Dining Restaurant	931	1000 S.F.	83.84	44%	50/50	0.73	67/33	7.8
Services	High Turnover Sit-Down Rest.	932	1000 S.F.	107.2	43%	55/45	9.57	61/39	9.05
	Fast Food Restaurant w/o DT	933	1000 S.F.	450.49	45%	58/42	43.18	50/50	33.21
	Fast Food Restaurant + DT	934	1000 S.F.	467.48	49%	51/49	44.61	52/48	33.03
	Coffee/Donut Shop w/o DT	936	1000 S.F.	441.88 ^d	45%	51/49	93.08	50/50	32.29
	Coffee/Donut Shop + DT	937	1000 S.F.	533.57	49%	51/49	85.88	50/50	38.99
	Coffee/Donut Shop + DT w/No Seat	938	DT Lanes	179	49%	50/50	39.81	50/50	15.08
	Gas Station w/Convenience Store ^e	FDOT	FP, 1000 S.F.	14.3*PM Trips	61%	50/50	Note f	50/50	12.3*FP+15.5*(X)
	Carwash (Automated) ^g	PBC	Lane	166.00	0%	50/50	11.97	50/50	13.65
	a) Based on Daily to AM peak ratio for LUC 532 (Private School (K-12))								
	b) Weekend peak hour rate = 10.36 per 1,000 s.f. with a 48/52 directional split								
	c) Landscape Services acreage consists of overnight vehicle and equipment storage as well as areas (covered or uncovered) for chemicals, fertilizers, landscape materials (excluding plants) and other items needed for day-to-day operations. Not included are drive aisles, customer/employee parking, structures shared by nursery and landscape services, facilities that solely serve the onsite landscape activities or any nursery growing areas.								
	d) Based on Daily to PM ratio for ITE Code 937 (Coffee Donut Shop + DT)								
	e) FP=Fueling Position. Use both FP and Convenience Store size in estimating trips using the provided equation. Note that no internalization between the gas pumps and convenience store, as per ULDC Article 12, should be applied to estimate the net trips.								
	f) Use PM rates								
	g) Daily rate taken from PBC trip gen. study. Peak hour rates derived by applying peak to daily ratios for gas station to daily carwash rate from older ITE TGM. New PBC rate study underway.								
	h) Based on PBC analysis of ITE TGM data plots								

Modification History
3/2/2020: Added Landscape Services, modification history, edited formatting
7/25/2022: Updated with ITE TGM Manual 11th ed information

Footnotes