SIMMONS & WHITE 2581 Metrocentre Blvd. W, Suite 3 West Palm Beach, Florida 33407 O 561.478.7848 | F 561.478.3738 www.simmonsandwhite.com Certificate of Authorization Number 3452



INSIGNIFICANT TRAFFIC IMPACT STATEMENT

NEW GENERATION MONTESSORI SCHOOL CITY OF DELRAY BEACH, FLORIDA

Prepared for:

JM Royalty Enterprise Property 326, LLC PO Box 741333 Boynton Beach, Florida 33474

Job No. 20-034A

Date:

June 17, 2020



TABLE OF CONTENTS

1.0	SITE DATA	2
2.0	PURPOSE OF STUDY	2
	TRAFFIC GENERATION	
4.0	RADIUS OF DEVELOPMENT INFLUENCE	5
5.0	TRIP DISTRIBUTION	5
6.0	TEST 1 BUILD-OUT ANALYSIS	5
7.0	TEST 2 BUILD-OUT ANALYSIS	5
8.0	SITE RELATED IMPROVEMENTS	6
9.0	CONCLUSION	6

1.0 SITE DATA

The subject parcel is located on the west side of NW 7th Avenue, north of NW 3rd Street in the City of Delray Beach, Palm Beach County, Florida and contains approximately 0.6 acres. The Property Control Numbers (PCN) for the subject parcel are 12-43-46-16-01-001-0040 and 12-43-46-16-01-001-0050. Figure 1 presents a vicinity map. The site is currently developed/vested with 67-student daycare space. Proposed site modifications consist of expanding to a total of 120-student daycare space with a project build-out of 2022. Site access is proposed via a northerly egress only driveway connection and a southerly ingress only driveway connection to NW 7th Avenue. Site access for employees is proposed via a full access driveway connection to NW 8th Avenue. For additional information concerning site location and layout, refer to the Site Plan prepared by Urban Design Studio.

2.0 PURPOSE OF STUDY

This study will analyze the proposed development's impact on the surrounding major thoroughfares within the project's radius of development influence in accordance with the Palm Beach County Unified Land Development Code Article 12 – Traffic Performance Standards. The Traffic Performance Standards state that a Site Specific Development Order for a proposed project shall meet the standards and guidelines outlined in two separate "Tests" with regard to traffic performance.

Test 1, or the Build-Out Test, relates to the build-out period of the project and requires that a project not add traffic within the radius of development influence which would have total traffic exceeding the adopted LOS at the end of the build-out period. This Test 1 analysis consists of two parts and no project shall be approved for a Site Specific Development Order unless it can be shown to satisfy the requirements of Parts One and Two of Test 1. Part One – Intersections, requires the analysis of major intersections, within or beyond a project's radius of development influence, where a project's traffic is significant on a link within the radius of development influence. The intersections analyzed shall operate within the applicable threshold associated with the level of analysis addressed. Part Two – Links, compares the total traffic in the peak hour, peak direction on each link within a project's radius of development influence with the applicable LOS "D" link service volumes. The links analyzed shall operate within the applicable thresholds associated with the level of analysis addressed.

Test 2, or the Five Year Analysis, relates to the evaluation of project traffic five years in the future and requires that a project not add traffic within the radius of development influence which would result in total traffic exceeding the adopted LOS at the end of the Five Year Analysis period.

This test requires analysis of links and major intersections as necessary within or beyond the radius of development influence, where a project's traffic is significant on a link within the radius of development influence.



FIGURE 1. Vicinity Map New Generation Montessori School Source: Google 2020 ©

2.0 PURPOSE OF STUDY (CONTINUED)

This analysis shall address the total traffic anticipated to be in place at the end of the build out year. This study will verify that the proposed development's traffic impact will meet the above Traffic Performance Standards.

3.0 TRAFFIC GENERATION

The Palm Beach County Unified Land Development Code Article 12 requires that for any application for a site specific development order on property on which there are vested uses shall be subject to the Palm Beach County Traffic Performance Standards to the extent the traffic generation projected for the site specific development order exceeds the traffic generation of the vested uses. The generation rates and capture rates of the vested uses shall be updated to current pro forma traffic generation and passer-by rates and shall be used to calculate vested uses/current approval traffic. Trip generation has been calculated in accordance with the ITE Trip Generation Manual, 10th Edition and the Palm Beach County Trip Generation Rates.

Table 1 shows the daily traffic generation associated with the existing/vested development in trips per day (TPD). Tables 2 and 3 show the AM and PM peak hour traffic generation, respectively, in peak hour trips (pht). The net traffic to be generated may be summarized as follows:

Existing/Vested Development

Daily Traffic Generation = 137 tpd

AM Peak Hour Traffic Generation (In/Out) = 26 pht (14 In/12 Out) PM Peak Hour Traffic Generation (In/Out) = 26 pht (13 In/13 Out)

Table 4 shows the daily traffic generation associated with the proposed development. Tables 5 and 6 show the AM and PM peak hour traffic generation, respectively. The net traffic to be generated may be summarized as follows:

Proposed Development

Daily Traffic Generation = 245 tpd

AM Peak Hour Traffic Generation (In/Out) = 47 pht (25 In/22 Out) PM Peak Hour Traffic Generation (In/Out) = 47 pht (23 In/24 Out)

The change in traffic generation as a result of the proposed site modifications is shown in Table 7 and may be summarized as follows:

Increase in Traffic Generation

Daily Traffic Generation = 108 tpd

AM Peak Hour Traffic Generation (In/Out) = 21 pht (11 In/10 Out) PM Peak Hour Traffic Generation (In/Out) = 21 pht (10 In/11 Out)

4.0 RADIUS OF DEVELOPMENT INFLUENCE

Based on Table 12.B.2.D-7 3A of the Palm Beach County Unified Land Development Code Article 12 – Traffic Performance Standards, for a net trip generation of 21 peak hour trips, the development of influence shall be a 0.5 mile radius.

For Test 1, a project must address those links within the radius of development influence on which its net trips are greater than 1% of the LOS "D" of the link affected on a peak hour, peak direction basis AND those links outside of the radius of development influence on which its net trips are greater than five percent of the LOS "D" of the link affected on a peak hour, peak direction basis up to the limits set forth in Table 12.B.2.C-1 1A: LOS "D" Link Service Volumes.

For Test 2, a project must address those links within the radius of development influence on which its net trips are greater than 3% of the LOS "E" of the link affected on a peak hour, peak direction basis AND those links outside of the radius of development influence on which its net trips are greater than five percent of the LOS "E" of the link affected on a peak hour, peak direction basis up to the limits set forth in Table 12.B.2.C-4 2A: LOS "E" Link Service Volumes.

5.0 TRIP DISTRIBUTION

The project trips were distributed and assigned on the links within the radius of development influence based on the existing and anticipated traffic patterns. Figure 2 presents the trip distribution percentages.

6.0 TEST 1 BUILD-OUT ANALYSIS

Test 1, or the Build-Out Analysis, relates to the build-out period of the project and requires that a project not add traffic within the radius of development influence which would have total traffic exceeding the adopted LOS at the end of the build-out period. Tables 8 and 9 show the project's assignment is less than 1% of the applicable LOS "D" threshold and is insignificant for all links within the project's radius of development influence. This project therefore meets the requirements of Test 1.

7.0 TEST 2 BUILD-OUT ANALYSIS

Test 2, or the Five Year Analysis, relates to the evaluation of project traffic five years in the future and requires that a project not add traffic within the radius of development influence which would result in total traffic exceeding the adopted LOS at the end of the Five Year Analysis Period. Tables 10 and 11 show the project's net trip generation is less than 3% of the applicable LOS "E" threshold for all links within the project's radius of development influence. This project therefore meets the requirements of Test 2.

8.0 SITE RELATED IMPROVEMENTS

The AM and PM peak hour volumes at the project entrances for the overall development with no reduction for pass by credits are shown in Tables 5 and 6 and may be summarized as follows:

DIRECTIONAL DISTRIBUTION (TRIPS IN/OUT)

AM = 50 / 44PM = 45 / 50

Figure 3 presents the AM and PM peak turning movement volume assignments at the project driveway based on the directional distributions. As previously mentioned, site access is proposed via a northerly egress only driveway connection and a southerly ingress only driveway connection to NW 7th Avenue. Site access for employees is proposed via a full access driveway connection to NW 8th Avenue. Based on the Palm Beach County Engineering Guidelines used in determining the need for turn lanes of 75 right turns or 30 left turns in the peak hour, additional turn lanes are not warranted or recommended.

9.0 CONCLUSION

The proposed redevelopment has been estimated to generate an increase of 108 trips per day, 21 AM peak hour trips, and 21 PM peak hour trips above the existing/vested development at project build-out in 2022. A brief review of the links within the project's radius of development influence reveals the proposed development will have an insignificant project assignment and will therefore meet the requirements of the Palm Beach County Traffic Performance Standards.

8.0 SITE RELATED IMPROVEMENTS

The AM and PM peak hour volumes at the project entrances for the overall development with no reduction for pass by credits are shown in Tables 5 and 6 and may be summarized as follows:

DIRECTIONAL DISTRIBUTION (TRIPS IN/OUT)

AM = 50 / 44PM = 45 / 50

Figure 3 presents the AM and PM peak turning movement volume assignments at the project driveway based on the directional distributions. As previously mentioned, site access is proposed via a northerly egress only driveway connection and a southerly ingress only driveway connection to NW 7th Avenue. Site access for employees is proposed via a full access driveway connection to NW 8th Avenue. Based on the Palm Beach County Engineering Guidelines used in determining the need for turn lanes of 75 right turns or 30 left turns in the peak hour, additional turn lanes are not warranted or recommended.

9.0 CONCLUSION

The proposed redevelopment has been estimated to generate an increase of 108 trips per day, 21 AM peak hour trips, and 21 PM peak hour trips above the existing/vested development at project build-out in 2022. A brief review of the links within the project's radius of development influence reveals the proposed development will have an insignificant project assignment and will therefore meet the requirements of the Palm Beach County Traffic Performance Standards.

06/12/20

EXISTING/VESTED DEVELOPMENT

TABLE 1 - Daily Traffic Generation

Landuse	ITE Code		Intensity	Rate/Equation	Dir In	Split Out	Gross Trips	Inte	rnalization Total	External Trips	Pass %	by Trips	Net Trips
Day Care	565	67	Students	4.09			274		0	274	50%	137	137
			Grand Totals:			_	274	0.0%	0	274	50%	137	137

TABLE 2 - AM Peak Hour Traffic Generation

	ITE				Dir	Split		ross T			ernali	zation		Ext	ernal	Trips	Pass	-by		Vet Tr	ps
Landuse	Code		Intensity	Rate/Equation	ln.	Out	In	Out	Total	%	In	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Day Care	565	67	Students	0.78	0.53	0.47	28	24	52	0.0%	0	0	0	28	24	52	50%	26	14	12	26
			Grand Totals:				28	24	52	0.0%	0	0	0	28	24	52	50%	26	14	12	28

TABLE 3 - PM Peak Hour Traffic Generation

tout	ITE					Split		OSS T			ernali.	zation		Ext	temal	Trips	Pass	-by	- 0	Vet Tr	ps
Landuse	Code		Intensity	Rate/Equation	ln	Out	ln	Out	Total	%	In	Out	Total	In	Out	Total	%	Trips	In	Out	Total
Day Care	565	67	Students	0.79	0.47	0.53	25	28	53	0.0%	0	0	0	25	28	53	50%	27	13	13	26
			Grand Totals:				25	28	53	0.0%	0	0	0	25	28	53	51%	27	13	13	26



NEW GENERATION MONTESSORI SCHOOL

06/12/20

PROPOSED DEVELOPMENT

TABLE 4 - Daily Traffic Generation

Landuse	ITE Code		ntensity	Rate/Equation	Dir	Splif Out	Gross Trips	Inte	ernalization Total	External Trips	Pass	-by Trips	Net Trips
Day Care	565	120	Students	4.09	\neg		491		0	491	50%	246	245
			Grand Totals:				491	0.0%	0	491	50%	246	245

TABLE 5 - AM Peak Hour Traffic Generation

Landuse	Code		ntensity	Rate/Equation		Split Out		oss T	rips Total			zation Out	Total		ernal	Trips Total	Pass-	by Trips		Vet Tr	ips Tota
Day Care	565	120	Students	0.78	0.53	0.47	50	44	94	0.0%	0	0	0	50	44	94	50%	47	25	22	1014
			Grand Totals:				50	44	94	0.0%	0	0	0	50	44	94	50%	47	25	22	47

TABLE 6 - PM Peak Hour Traffic Generation

m I Out I Take					-by		Net Tri	DS
n Out Total	il in	Out	Total	%	Trips			Total
0 0 0	45	50	95	50%	48	23	_	47
0 0 0	45		-		48	23	24	47
0	0 0 0	0 0 0 45	0 0 0 45 50	0 0 0 45 50 95	0 0 0 45 50 95 50%	0 0 0 45 50 95 50% 48	0 0 0 45 50 95 50% 48 23	0 0 0 45 50 95 50% 48 23 24



TABLE 7 TRAFFIC GENERATION INCREASE

		AM	PEAK H	OUR	PM I	PEAK HO	OUR
	DAILY	TOTAL	IN	OUT	TOTAL	IN	OUT
EXISTING DEVELOPMENT =		26	14	12	26	13	13
PROPOSED DEVELOPMENT =	245	47	25	22	47	23	24
INCREASE =	108	21	11	10	21	10	11





N.T.S.

ENGINEERING | PLANNING | CONSULTING | SINCE 1982
Authorization No. 3452
2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848

(25%) (15% LAKE IDA RD NW 4TH ST (37%) 3% 95 SITE 3% (57%) NW 3RD ST (15% 3% 42% ATLANTIC AVE (30%) (27%) 15%

LEGEND

1%) PROJECT DISTRIBUTION

FIGURE 2
PROJECT DISTRIBUTION

NEW GENERATION
MONTESSORI SCHOOL
20-034A AL 06-16-20



N.T.S.

ENGINEERING I PLANNING I CONSULTING I SINCE 1982
Authorization No. 3452
2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848

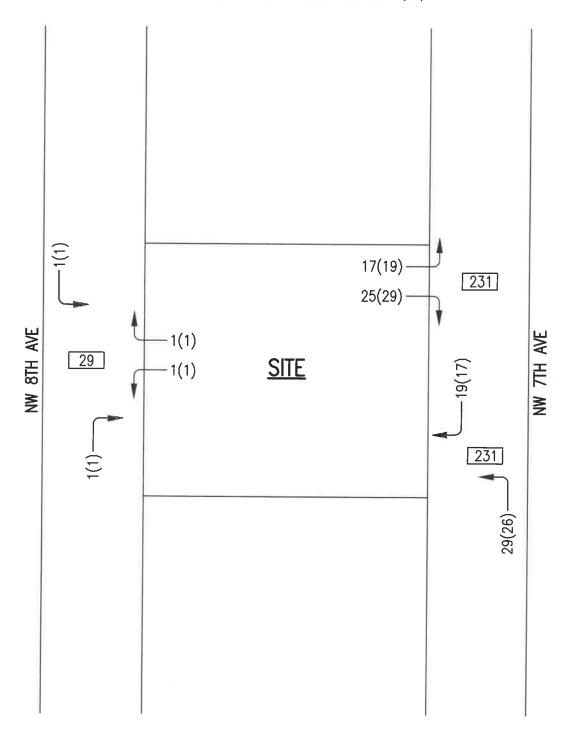


FIGURE 3 TURNING MOVEMENT WORKSHEET

LEGEND

- 19 A.M. PEAK HOUR TURNING MOVEMENT
- (17) P.M. PEAK HOUR TURNING MOVEMENT

231 A.A.D.T.

NEW GENERATION MONTESSORI SCHOOL

20-034A AL 06-16-20

TABLE 8 TEST 1 - PROJECT SIGNIFICANCE CALCULATION AM PEAK HOUR

2022 BUILD OUT
0.5 MILE RADIUS OF DEVELOPMENT INFLUENCE
TOTAL AM PEAK HOUR PROJECT TRIPS (ENTERING) = 11
TOTAL AM PEAK HOUR PROJECT TRIPS (EXITING) = 10

					M PEAK HOU	9				
STATION	ROADWAY	FROM	то		PROJECT TRIPS		CLASS	LOS D STANDARD	TOTAL PROJECT IMPACT	PROJECT SIGNIFICAN
5307 5307	LAKE IDA ROAD LAKE IDA ROAD	CONGRESS AVENUE NW 5TH AVENUE	NW 5TH AVENUE SWINTON AVENUE	25% 15%	3 2	4D 5	II.	1770 1770	0.17% 0.11%	NO NO
N/A N/A	NW 4TH STREET NW 4TH STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE LAKE IDA ROAD	3% 40%	0	2 2	1	880 880	0.00%	NO NO
N/A N/A	NW 3RD STREET NW 3RD STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE SWINTON AVENUE	0% 15%	0 2	2 2	1	880 880	0.00%	NO NO
N/A N/A N/A	ATLANTIC AVENUE ATLANTIC AVENUE ATLANTIC AVENUE	INTERSTATE 95 NW 8TH AVENUE NW 7TH AVENUE	NW 8TH AVENUE NW 7TH AVENUE SWINTON AVENUE	30% 27% 15%	3 3 2	4D 4D 4D		1770 1770 1770	0.17% 0.17% 0.11%	NO NO NO
N/A N/A	NW 8TH AVENUE NW 8TH AVENUE	NW 4TH STREET SITE	SITE ATLANTIC AVENUE	3% 3%	0	2 2	i	880 880	0.00%	NO NO
	NW 7TH AVENUE NW 7TH AVENUE NW 7TH AVENUE	NW 4TH STREET SITE NW 3RD STREET	SITE NW 3RD STREET ATLANTIC AVENUE	37% 57% 42%	4 6 5	2 2 2	I I	880 880 880	0.45% 0.68% 0.57%	NO NO NO



TABLE 9 TEST 1 - PROJECT SIGNIFICANCE CALCULATION PM PEAK HOUR

2022 BUILD OUT

0.5 MILE RADIUS OF DEVELOPMENT INFLUENCE
TOTAL PM PEAK HOUR PROJECT TRIPS (ENTERING) = 10
TOTAL PM PEAK HOUR PROJECT TRIPS (EXITING) = 11

					M PEAK HOU				TOTAL	
STATION	ROADWAY	FROM	то	PROJECT DISTRIBUTION	PROJECT TRIPS	EXISTING LANES	CLASS	LOS D STANDARD	PROJECT	PROJECT SIGNIFICANT
5307 5307	LAKE IDA ROAD LAKE IDA ROAD	CONGRESS AVENUE NW 5TH AVENUE	NW 5TH AVENUE SWINTON AVENUE	25% 15%	3 2	4D 5	11	1770 1770	0.17% 0.11%	NO NO
N/A N/A	NW 4TH STREET NW 4TH STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE LAKE IDA ROAD	3% 40%	0	2 2	1	880 880	0.00%	NO NO
N/A N/A	NW 3RD STREET NW 3RD STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE SWINTON AVENUE	0% 15%	0 2	2 2	1	880 880	0.00% 0.23%	NO NO
N/A N/A N/A	ATLANTIC AVENUE ATLANTIC AVENUE ATLANTIC AVENUE	INTERSTATE 95 NW 8TH AVENUE NW 7TH AVENUE	NW 8TH AVENUE NW 7TH AVENUE SWINTON AVENUE	30% 27% 15%	3 3 2	4D 4D 4D	11 11 11	1770 1770 1770	0.17% 0.17% 0.11%	NO NO NO
N/A N/A	NW 8TH AVENUE NW 8TH AVENUE	NW 4TH STREET SITE	SITE ATLANTIC AVENUE	3% 3%	0	2	Ï	880 880	0.00%	NO NO
N/A N/A N/A	NW 7TH AVENUE NW 7TH AVENUE NW 7TH AVENUE	NW 4TH STREET SITE NW 3RD STREET	SITE NW 3RD STREET ATLANTIC AVENUE	37% 57% 42%	4 6 5	2 2 2	1	880 880 880	0.45% 0.68% 0.57%	NO NO NO



TABLE 10 TEST 2 - PROJECT SIGNIFICANCE CALCULATION AM PEAK HOUR

TEST 2 - FIVE YEAR ANALYSIS

0.5 MILE RADIUS OF DEVELOPMENT INFLUENCE

TOTAL AM PEAK HOUR PROJECT TRIPS (EXITING) = 11

TOTAL AM PEAK HOUR PROJECT TRIPS (EXITING) = 10

				AM	PEAK HOUR		_			
STATION	ROADWAY	FROM	то	DIR	PROJECT TRIPS	EXISTING LANES	CLASS	LOS E STANDARD	TOTAL PROJECT IMPACT	PROJECT SIGNIFICANT
5307 5307	LAKE IDA ROAD LAKE IDA ROAD	CONGRESS AVENUE NW 5TH AVENUE	NW 5TH AVENUE SWINTON AVENUE	25% 15%	3 2	4D 5	II	1870 1870	0.16%	NO NO
N/A N/A	NW 4TH STREET NW 4TH STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE LAKE IDA ROAD	3% 40%	0 4	2 2	-	880 880	0.00% 0.45%	NO NO
N/A N/A	NW 3RD STREET NW 3RD STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE SWINTON AVENUE	0% 15%	0 2	2 2	1	880 860	0.00% 0.23%	NO NO
N/A N/A N/A	ATLANTIC AVENUE ATLANTIC AVENUE ATLANTIC AVENUE	INTERSTATE 95 NW 8TH AVENUE NW 7TH AVENUE	NW 8TH AVENUE NW 7TH AVENUE SWINTON AVENUE	30% 27% 15%	3 3 2	4D 4D 4D	 	1870 1870 1870	0.16% 0.16% 0.11%	NO NO
N/A N/A	NW 8TH AVENUE NW 8TH AVENUE	NW 4TH STREET SITE	SITE ATLANTIC AVENUE	3% 3%	0	2 2	1	880 880	0.00%	NO NO
	NW 7TH AVENUE NW 7TH AVENUE NW 7TH AVENUE	NW 4TH STREET SITE NW 3RD STREET	SITE NW 3RD STREET ATLANTIC AVENUE	37% 57% 42%	4 6 4	2 2 2] 	880 880 880	0.45% 0.68% 0.45%	NO NO NO



TABLE 11 TEST 2 - PROJECT SIGNIFICANCE CALCULATION PM PEAK HOUR

TEST 2 - FIVE YEAR ANALYSIS
0.5 MILE RADIUS OF DEVELOPMENT INFLUENCE
TOTAL PM PEAK HOUR PROJECT TRIPS (EXTING) = 11
TOTAL PM PEAK HOUR PROJECT TRIPS (EXTING) = 11

					M PEAK HOU	-		1	TOTAL	
STATION	ROADWAY	FROM	то	PROJECT DISTRIBUTION	PROJECT	EXISTING LANES	CLASS	LOS E STANDARD	PROJECT	PROJECT
5307 5307	LAKE IDA ROAD LAKE IDA ROAD	CONGRESS AVENUE NW 5TH AVENUE	NW 5TH AVENUE SWINTON AVENUE	25% 15%	3 2	4D 5	11	1870 1870	0.16% 0.11%	NO NO
N/A N/A	NW 4TH STREET NW 4TH STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE LAKE IDA ROAD	3% 40%	0 4	2 2	1	880 880	0.00% 0.45%	NO NO
N/A N/A	NW 3RD STREET NW 3RD STREET	NW 8TH AVENUE NW 7TH AVENUE	NW 7TH AVENUE SWINTON AVENUE	0% 15%	0 2	2 2	1	880 880	0.00% 0.23%	NO NO
	ATLANTIC AVENUE ATLANTIC AVENUE ATLANTIC AVENUE	INTERSTATE 95 NW 8TH AVENUE NW 7TH AVENUE	NW 8TH AVENUE NW 7TH AVENUE SWINTON AVENUE	30% 27% 15%	3 3 2	4D 4D 4D	 } 	1870 1870 1870	0.16% 0.16% 0.11%	NO NO NO
	NW 8TH AVENUE NW 8TH AVENUE	NW 4TH STREET SITE	SITE ATLANTIC AVENUE	3% 3%	0	2 2	ï	880 880	0.00%	NO NO
N/A	NW 7TH AVENUE NW 7TH AVENUE NW 7TH AVENUE	NW 4TH STREET SITE NW 3RD STREET	SITE NW 3RD STREET ATLANTIC AVENUE	37% 57% 42%	4 6 5	2 2 2	 	880 880 880	0.45% 0.68% 0.57%	NO NO NO

