Table 4-9: 2048 CORSIM Analysis – NB I-95

	NB I-95 AM PEAK HOUR - 2048										
	Locati	ion	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From OpaLocka Blvd. to MGD	Travel Time (min:sec)	4:37	4:36	4:35	Speeds in GU comparable in No Build, GGI				
	do lalles	(22,045 feet)	Avg. Speed (mph)	54	54	55	Light and GGI Ultimate				
	Express	to MGD	Travel Time (min:sec)	4:54	4:46	4:43	Speeds in EL comparable in No Build, GGI Light				
NB I-95	Lanes		Avg. Speed (mph)	50	52	52	and GGI Ultimate				
	GU Lanes		Throughput (vehs/hr.)	6251	7076	6675					
	EL Lanes	NB I-95, N of NW 2nd Ave On-Ramp	Throughput (vehs/hr.)	1160	1157	1839	GGI Light performs better than No Build.				
	GU + EL		Throughput (vehs/hr.)	7411	8233 +11.1%	8514 +3.4%	GGI Ultimate performs bettern than GGI Light				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	25898	28964 +11.8%	29645 +2.4%					

	NB I-95 PM PEAK HOUR - 2048										
	Locati	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From OpaLocka Blvd. to MGD	Travel Time (min:sec)	7:20	5:39	7:20	GGI Light performa better than No Build . Speed lower in GGI Ultimate due to higher				
	do lalles	(22,045 feet)	Avg. Speed (mph)	34	44	34	throughput				
	Express	l to MGD	Travel Time (min:sec)	5:51	4:51	4:43	GGI Light performs better than No Build. Speeds comparable in GGI Light and GGI				
NB 1-95	Lanes		Avg. Speed (mph)	42	51	52	Ultimate				
IND 1-95	GU Lanes		Throughput (vehs/hr.)	6124	7588	7891					
	EL Lanes	NB I-95, N of NW 2nd	Throughput (vehs/hr.)	1474	1485	1645	GGI Light performs better than No Build.				
	GU + EL	Ave On-Ramp	Throughput (vehs/hr.)	7598	9073 +19.4%	9536 +5.1%	GGI Ultimate performs bettern than GGI Light				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	30484	36106 +18.4%	37792 +4.7%					

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light

Table 4-10: 2048 CORSIM Analysis – SB I-95

			SB I-	95 AM PEAK	HOUR - 2048		
	Locatio	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments
	GU lanes OpaL	From MGD to OpaLocka Blvd.	Travel Time (min:sec)	4:58	9:01	5:12	Speeds lower in GGI Light than No Build due to higer throughput
		(22,062 feet)	Avg. Speed (mph)	51	28	48	Speeds lower in GGI Light than GGI Ultimate due to higher throughput
	Express	From MGD to OpaLocka Blvd. (21,814 feet)	Travel Time (min:sec)	4:51	4:54	4:46	Speeds in EL comparable in No Build, GGI Light
SB 1-95	Lanes		Avg. Speed (mph)	51	51	52	and GGI Ultimate
35133	GU Lanes		Throughput (vehs/hr.)	7807	8670	7973	
	EL Lanes	SB I-95 N of 151 Street	Throughput (vehs/hr.)	1139	2361	2261	GGI Light Performs Better than No Build. Throughput in GGI Light higher than GGI
	GU + EL		Throughput (vehs/hr.)	8946	11031	10234	Ultimate due to higher demand.
			imoughput (vensym.)		+23.3%	-7.2%	」
	GUAEI		Total Throughput for 4-	33202	41285	37444	
	GU + EL		hour Peak Period (vehs)	33202	+24.3%	-9.3%	

	SB I-95 PM PEAK HOUR - 2048										
	Locatio	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From MGD to	Travel Time (min:sec)	7:11	5:37	10:36	GGI Light Performs Better than No Build. Speed in GGI Ultimate impacted by higher				
		OpaLocka Blvd. (22,062 feet)	Avg. Speed (mph)	35	45	25	demand and congestion along I-95 segment north of GGI.				
	Express	From MGD to OpaLocka Blvd. (21,814 feet)	Travel Time (min:sec)	4:48	4:32	4:43	Speeds in EL comparable in No Build, GGI Light				
SB I-95	Lanes		Avg. Speed (mph)	52	52	52	and GGI Ultimate				
	GU Lanes		Throughput (vehs/hr.)	5867	7859	6987					
	EL Lanes	SB I-95	Throughput (vehs/hr.)	913	1755	1998	GGI Light Performs Better than No Build. Throughput in GGI Light higher than GGI				
	GU + EL	N of 151 Street	Throughput (vehs/hr.)	6780	9614 +41.8%	8985 -6.5%	Ultimate due to higher demand and upstream congestion in GGI Ultimate.				
	GU+EL		Total Throughput for 4- hour Peak Period (vehs)	27574	39034 +41.6%	36318 -7.0%					

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light

Table 4-11: 2048 CORSIM Analysis – NB I-95/Turnpike Connector

	NB I-95/Turnpike Connector - AM PEAK HOUR - 2048										
	Locati	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	Gillanos	From I-95 to N of SR	Travel Time (min:sec)	1:15	1:16	1:14	Speeds comparable in No Build, GGI Light and				
	GU lanes 826 Off-Ramp (5,038 feet)	•	Avg. Speed (mph)	46	45	46	GGI Ultimate				
NB I-95/Turnpike Connector	Express	Express From I-95 to N of SR	Travel Time (min:sec)	-	1:21	1:19	No EL connectivity provided in No Build. Speeds comparable in GGI Light and GGI				
ike Cor	Lanes	826 Off-Ramp	Avg. Speed (mph)	-	46	47	Ultimate				
/Turnp	GU Lanes		Throughput (vehs/hr.)	1678	1016	1237					
4B I-95	EL Lanes N of SR 8	(on one off n	Throughput (vehs/hr.)	-	804	648	GGI Light performs better than No Build.				
		N of SR 826 Off-Ramp	Throughput (vehs/hr.)	1678	1820 +8.5%	1885 +3.6%	GGI Ultimate performs better than GGI Light and No Build				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	5787	6288 +8.7%	6465 +2.8%					

	NB I-95/Turnpike Connector - PM PEAK HOUR - 2048										
	Locati	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	Cillones	From I-95 to N of SR	Travel Time (min:sec)	4:09	3:28	1:14	GGI Light comparable to No Build.				
_	GU lanes	826 Off-Ramp (5,038 feet)	Avg. Speed (mph)	14	17	46	GGI Ultimate performs better than GGI Light				
Connector	Express Lanes	From I-95 to N of SR 826 Off-Ramp	Travel Time (min:sec)	-	1:21	1:22	No EL connectivity provided in No Build.				
			Avg. Speed (mph)	-	46	46	Speeds comparable in GGI Light and GGI Ultimate				
NB I-95/Turn pike	GU Lanes		Throughput (vehs/hr.)	1782	1117	1248					
1B I-95,	EL Lanes		Throughput (vehs/hr.)	-	954	927	GGI Light performs better than No Build.				
	GU + EL	N of SR 826 Off-Ramp	Throughput (vehs/hr.)	1782	2071 +16.2%	2175 +5.0%	GGI Ultimate performs better than GGI Light				
	GU + EL	1	Total Throughput for 4- hour Peak Period (vehs)	7079	8172 +15.4%	8577 +5.0%					

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light

Table 4-12: 2048 CORSIM Analysis – SB I-95/Turnpike Connector

	SB I-95/Turnpike Connector - AM PEAK HOUR - 2048										
	Locati	ion	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From N of SR 826 Off- Ramp to S of NW 7	Travel Time (min:sec)	4:39	1:29	1:11	GGI Light performs better than No Build. Speeds comparable in GGI Light and GGI				
<u> </u>	do lalles	Ave. Off-Ramp (4,715 feet)	Avg. Speed (mph)	12	36	45	Ultimate				
Connector	Express	From N of SR 826 Off- Ramp to S of NW 7 Ave. Off-Ramp	Travel Time (min:sec)	-	1:36	1:36	No EL connectivity provided in No Build. Speeds comparable in GGI Light and GGI				
oike Co	Lanes		Avg. Speed (mph)	-	46	46	Ultimate				
SB I-95/Turnpike	GU Lanes		Throughput (vehs/hr.)	2900	4140	3260					
GU+	EL Lanes	S of NW 7 Ave. Off- Ramp	Throughput (vehs/hr.)	-	1216	1172	GGI Light performs better than No Build. GGI Light has higher throughput than GGI				
	GU + EL		Throughput (vehs/hr.)	2900	5356 +84.7%	4432 -17.3%	Ultimate due to higher travel demand on SB I- 95				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	11465	20115 +75.4%	16415 -18.4%					

	SB I-95/Turnpike Connector - PM PEAK HOUR - 2048										
	Locati	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From N of SR 826 Off- Ramp to S of NW 7	Travel Time (min:sec)	6:07	3:55	1:16	GGI Light performs better than No Build.				
_	do lanes	Ave. Off-Ramp (4,715 feet)	Avg. Speed (mph)	9	14	42	GGI Ultimate performs better than GGI Light				
-95/Turnpike Connector	Express	From N of SR 826 Off- Ramp to S of NW 7 Ave. Off-Ramp	Travel Time (min:sec)	-	1:38	1:35	No EL connectivity provided in No Build. Speeds comparable in GGI Light and GGI				
ike Co	Lanes		Avg. Speed (mph)	-	47	47	Ultimate				
Turnp	GU Lanes		Throughput (vehs/hr.)	1959	3340	2944					
SB 1-95	EL Lanes	S of NW 7 Ave. Off-	Throughput (vehs/hr.)	-	834	1001	GGI Light performs better than No Build.				
,	GU + EL	Ramp	Throughput (vehs/hr.)	1959	4174 +113.1%	3945 -5.5%	GGI Light has higher throughput than GGI Ultimate due to higher demand on SB I-95				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	8014	17026 +112.5%	16000 -6.0%					

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light

Table 4-13: 2048 CORSIM Analysis – EB SR 826

	EB SR 826/Palmetto Expressway - AM PEAK HOUR - 2048											
	Locati	ion	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments					
	GU lanes	From W of NW 37 Ave. Off-Ramp to E of		22:44	4:07	9:44	GGI Light performs better than No Build. GGI Ultimate generages lower speeds due to					
	do lalles	NW 167 St. Off-Ramp (18,019 feet)	Avg. Speed (mph)	9	50	21	higher throughput					
Ехру.	Express	From W of NW 37 Ave. Off-Ramp to E of NW 167 St. Off-Ramp	Travel Time (min:sec)	-	-	3:18	Express lanes along SR 826 only provided in					
Imetto	Lanes			-	-	59	GGI Ultimate					
EB SR 826/Palmetto Expy.	GU Lanes		Throughput (vehs/hr.)	1168	1475	2629						
EB SR	EL Lanes	E of NW 167 St. Off- Ramp	Throughput (vehs/hr.)	-	-	563	GGI Light performs better than No Build.					
	GU + EL		Throughput (vehs/hr.)	1168	1475 +26.3%	3192 +116.4%	GGI Ultimate performs better than GGI Light					
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	4588	5649 +23.1%	11715 +107.4%						

	EB SR 826/Palmetto Expressway - PM PEAK HOUR - 2048											
	Locati	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments					
	GU lanes	From W of NW 37 Ave. Off-Ramp to E of	Travel Time (min:sec)	27:38	14:34	9:13	GGI Light Performs Better than No Build.					
	Go lalles	NW 167 St. Off-Ramp (18,019 feet)	Avg. Speed (mph)	7	14	22	GGI Ultimate performs better than GGI Light					
Expy.	Express	From W of NW 37 Ave. Off-Ramp to E of NW 167 St. Off-Ramp	Travel Time (min:sec)	-	-	3:10	Express lanes along SR 826 only provided in					
Imetto	Lanes			1	-	61	GGI Ultimate					
EB SR 826/Palmetto Expy.	GU Lanes		Throughput (vehs/hr.)	800	1114	1691						
EB SR	EL Lanes	E of NW 167 St. Off- Ramp	Throughput (vehs/hr.)	-	-	357	GGI Light performs better than No Build.					
	GU+EL		Throughput (vehs/hr.)	800	1114 +39.3%	2048 +83.8%	GGI Ultimate performs better than GGI Light					
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	3334	4604 +38.1%	8501 +84.6%						

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light

Table 4-14: 2048 CORSIM Analysis – WB SR 826

	WB SR 826/Palmetto Expressway - AM PEAK HOUR - 2048										
	Locati	ion	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments				
	GU lanes	From E of NW 167 St. On-Ramp to W of	Travel Time (min:sec)	3:38	3:36	3:29	Speeds comparable in No Build, GGI Light and				
	do lanes	NW 137 St. On-Ramp (18,346 feet)	Avg. Speed (mph)	57	58	60	GGI Ultimate				
Expy.	Express	From E of NW 167 St. On-Ramp to W of NW 137 St. On-Ramp	Travel Time (min:sec)	-	-	3:18	Express lanes along SR 826 only provided in				
SR 826/Palmetto	Lanes		Avg. Speed (mph)	1	1	61	GGI Ultimate				
826/Pa	GU Lanes		Throughput (vehs/hr.)	5396	5216	3894					
MB	EL Lanes	W of NW 27 Ave. On- Ramp	Throughput (vehs/hr.)	-	-	1416	Throughput higher in No Build due to new signal at intersection of NW 7th Avenue Ext.				
	GU + EL		Throughput (vehs/hr.)	5396	5216 -3.3%	5310 +1.8%	and Turnpike which meters WB traffic entering SR 826. This intersection is unsignalized in No Build.				
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	19653	18979 -3.4%	19305 +1.7%					

			WB SR 826/Palme	tto Expresswa	ay - PM PEAK	HOUR - 2048	
	Locat	on	Performance Measure	No Build	GGI Light	GGI Ultimate	Comments
	GU lanes	From E of NW 167 St. On-Ramp to W of	Travel Time (min:sec)	3:49	4:56	3:39	Speeds lower in GGI Light than No Build due to higher throughput
	Go lanes	NW 137 St. On-Ramp (18,346 feet)	Avg. Speed (mph)	55	42	57	Speeds higher in GGI Ultimate than GGI Light
SR 826/Palmetto Expy.	Express	From E of NW 167 St. On-Ramp to W of NW 137 St. On-Ramp	Travel Time (min:sec)	-	-	3:20	Express lanes along SR 826 only provided in
almetto	Lanes		Avg. Speed (mph)	-	-	60	GGI Ultimate
826/Pa	GU Lanes		Throughput (vehs/hr.)	5784	6043	5004	GGI Light performs better than No Build.
WB SR	EL Lanes	W of NW 27 Ave. On-	Throughput (vehs/hr.)	-	-	1839	GGI Ultimate performs better than GGI Light
	GU + EL	Ramp	Throughput (vehs/hr.)	5784	6043 +4.5%	6843 +13.2%	New upstream signal at NW 7th Avenue Ext./Turnpike intersection meters WB traffic in
	GU + EL		Total Throughput for 4- hour Peak Period (vehs)	23224	24120 +3.9%	27186 +12.7%	GGI Light and GGI Ultimate

Notes: 1. Percentage change in throughput compares GGI Light to No Build and GGI Ultimate to GGI Light



Table 4-15: 2048 CORSIM Analysis – EB SR 826 to NB I-95

EB SR 826 to NB I-95 AM PEAK HOUR - 2048								
Location		Performance Measure	No Build	GGI Light	GGI Ultimate	Comments		
GU lanes	From EB SR 826 to NB I-95 (12,800 feet - No Build) (4,600 feet - GGI Light/Ultimate)	Travel Time (min:sec)	5:59	1:15	1:12	GGI Light Performs Better than No Build. GGI Light comparable to GGI Ultimate		
		Avg. Speed (mph)	18	41	44			

EB SR 826 to NB I-95 PM PEAK HOUR - 2048							
Location		Performance Measure	No Build	GGI Light	GGI Ultimate	Comments	
GU lanes	From EB SR 826 to NB I-95 (12,800 feet - No Build) (4,600 feet - GGI Light/Ultimate)	Travel Time (min:sec)	8:59	1:13	1:21	GGI Light Performs Better than No Build. GGI Light comparable to GGI Ultimate	
		Avg. Speed (mph)	12	42	39		

Table 4-16: 2048 CORSIM Analysis – Networkwide Performance

Networkwide Performance - 2048 AM peak					
Performance Measure	No Build	GGI Light GGI Ultimate		Comments	
Total Delay (hours)	rs) 14,540	11,120	8,969	GGI Light Performs Better than No Build. GGI Ultimate Performs Better than GGI Light.	
		-23.5%	-19.3%	da orumate i ciromis better than dar light.	
Total Vehicle-Miles	502,527	565,727	601,124	GGI Light Performs Better than No Build.	
Traveled	,	12.6%	6.3%	GGI Ultimate Performs Better than GGI Light.	
Average Speed (mph)	h) 21	26	30	GGI Light Performs Better than No Build.	
Therage speed (inpir)		23.8%	15.4%	GGI Ultimate Performs Better than GGI Light.	
Unmet Demand	26,667	10,297	6,378	GGI Light Performs Better than No Build.	
(vehs)		-61.4%	-38.1%	GGI Ultimate Performs Better than GGI Light.	

Networkwide Performance - 2048 PM peak						
Performance Measure	No Build	GGI Light GGI Ultimate		Comments		
Total Delay (hours)	23,207	19,811	16,760	GGI Light Performs Better than No Build.		
Total Belay (Hours)		-14.6%	-15.4%	GGI Ultimate Performs Better than GGI Light.		
Total Vehicle-Miles	523,469	623,437	676,508	GGI Light Performs Better than No Build.		
Traveled		19.1%	8.5%	GGI Ultimate Performs Better than GGI Light.		
Average Speed (mph)	16	20	23	GGI Light Performs Better than No Build.		
Average speed (mpm)		25.0%	15.0%	GGI Ultimate Performs Better than GGI Light.		
Unmet Demand	50,484	24,372	20,122	GGI Light Performs Better than No Build.		
(vehs)	/	-51.7%	-17.4%	GGI Ultimate Performs Better than GGI Light.		

Notes:

- 1. Unmet Demand = Accumulated total Demand Volume minus Simulated Volume at network entry points along NB I-95, SB I-95, EB SR 826, and SB Turnpike.
- .2. Percentage change compares GGI Light to No Build and GGI Ultimate to GGI Light