MEMORANDUM

DATE: May 14, 2025

TO: City of Hallandale Beach Department 400 South Federal Highway | Hallandale Beach, FL 33009

SUBJECT: City of Hallandale Beach Police Department – Community Gate Traffic

Caltran Engineering Group, Inc. (CALTRAN) was retained by City of Hallandale Beach to evaluate the potential traffic impacts, identify short-term roadway and circulation needs, determine potential mitigation measures, and identify critical issues that should be addressed as part of the city of Hallandale Beach Police Department – Community Gate Traffic project for the community entrances located at Three Island, Hallandale Beach, FL 33009.

Three Island community has two main ingress and egress gated points, located and heron named as follow:

- Gate 2 – South Gate – Three Island Blvd, north of bridge 866102.
- Gate 3 – West Gate – Atlantic Shores Blvd, east of bridge 866100.

Figure 1 illustrates the project location and both gate sites.

1.0 Introduction

This study was initiated to address the City of Hallandale Beach Police Department concerns regarding neighborhood security and to prevent an increasing number of non-residents entering. Such unregulated access condition has heightened worries about potential risks to both residents and their children. In response to these concerns, the community is considering the installation of a gated entry system that will allow monitoring of ingress vehicles without overly restricting right of access. This proposed solution aims to enhance security and create a safer, quieter, and more protected environment for the residents of Three Island.

To support this initiative, CALTRAN has conducted an evaluation of the existing and proposed conditions in order to determine the optimal gated system for monitoring, identify potential roadway impacts to the community, and provide recommendations that prioritize safety and convenience.

Figure 1: Project Location

2.0 Data Collection

Data collection was performed on April 22, 2025 at the gated entry / exit. **Appendix A** provides the raw data collection with **Table 1** summarizing the vehicle data for both gates.

Table 1: Data Collection – Vehicle Volumes

Gate 2 – South Gate			
Date	04/08/2025 (Tue)	04/09/2025 (Wed)	Average (rounded)
24-hr Volume	6,865	7,111	7,000
AM Peak (7-9am)	704	540	630
PM Peak (4-6pm)	432	465	450
Visitor-Only Peak (λ)	297	358	330
Gate 3 – West Gate			
Date	04/08/2025 (Tue)	04/09/2025 (Wed)	Average (rounded)
24-hr Volume	5,077	5,302	5,200
AM Peak (7-9am)	501	494	500
PM Peak (4-6pm)	417	453	440
Visitor-Only Peak (λ)	138	143	140

3.0 Gate Queue Analysis

A queue analysis for both gated points was conducted. Based on data collection and field review, existing queue times for the visitor lane is minimal (less than 4 seconds) between the vehicle approaching, slowing down for the speed bump, and passing through.

It should be noted at the time of the data collection and field review, both gates were inoperable which appears to be the typical existing conditions. The unregulated access may also suggest that the open-for-all lane condition creates an indifference between determining residents from visitors in the data. **Figure 2** provides a picture of both gates being in inoperable condition along with the measured visitor queue storage lengths.

Gate 2 – South Gate

Gate 3 – West Gate

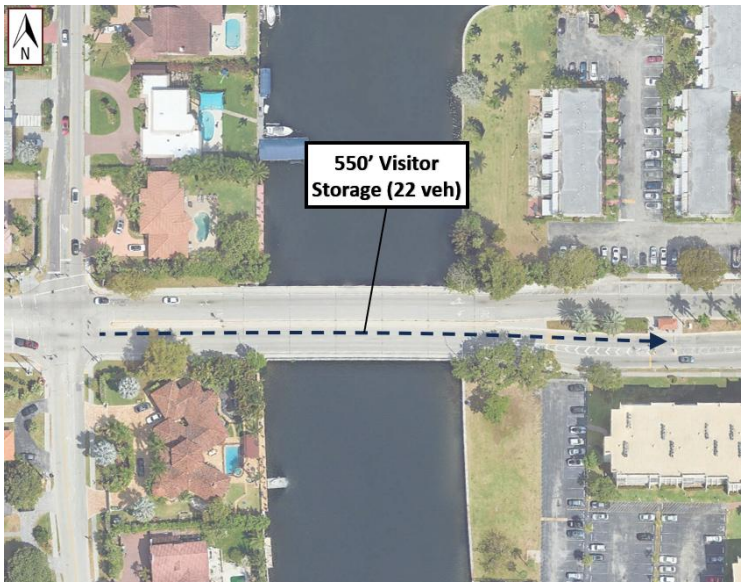

Figure 2: Gate Arrival and Departure Queue Observation

3.1 Existing Gate Queue Analysis

Queue Analysis was performed utilizing the M/M/1 queue model. Based on existing visitor data collected, a conservative service rate (μ) of 5 seconds per vehicle was determined along with a peak hour arrival rate (λ) of 330 vehicles for Gate 2.

The methodology for calculating service and queue times for visitors is as follows:

Service Rate (μ):

$$\mu_v = \frac{3600\ seconds\ per\ hour}{5\ seconds\ per\ vehicle} = 720\ vehicles\ per\ hour$$

Arrival Rate by Group (λ):

$$\lambda_v = 330\ vehicles\ per\ hour$$

Utilization (p):

$$p_v = \frac{\lambda_v}{\mu_v} = \frac{330}{720} = 0.458\ (ratio)$$

Average Wait Time in Queue (W):

$$W_v = \frac{p_v}{\mu_v - \lambda_v} \times 60\ = \frac{0.458}{720 - 330} \times 60 \approx 0.07\ minutes.$$

Average Number of Vehicles in System (L):

$$L_v = \frac{p_v}{1 - p_v}\ = \frac{0.458}{1 - 0.458} = 0.846 \approx 1\ vehicle.$$

95th Percentile Queue (Q):

$$L_{95,v} = L_v + 1.645 \times \sqrt{L_v} = 0.846 + 1.645\ \times \sqrt{0.846} = 2.36 \approx 3\ vehicles$$

The 95th percentile queue length is around 3 vehicle, or 75 feet, confirming that the available queuing space (700 feet, or 28 vehicles) is more than sufficient to handle peak-hour demand for both residents and visitors.

3.2 Proposed Future Gate System

With the intent to address the growing security concerns for the residents of the Three Island community, a monitored gate system is to be implemented. Based on information provided by Regions Security, the selected security provider for the community, the proposed gate will provide controlled access by monitoring ingress vehicles without adversely restricting right of access.

The system will consist of a Lift-master breakaway stop arm system with LED indicators, set of integrated cameras to capture pictures of the vehicles plate, and respective sensors installed to trigger the image capture and opening of the gate. The gates open and close duration time is 2.5 seconds.

The breakdown for the proposed gate system service rate is as follows:

Proposed Gate System Service Rate:	
Vehicle Slow to Stop	1.5 seconds
Plate capture	0.5 second
Gate opening time	2.5 seconds
Driver reaction/start-up	1.0 second
Vehicle clearing the gate	3.0 seconds
Subtotal (entry/exit)	**8.5 seconds**
Added safety time buffer	1.5 seconds
Total service rate per vehicle =	**10 seconds**

Table 2 provides a breakdown of the existing conditions queues compared against the proposed gated condition queues.

See **Appendix B** for both Gate 2 and Gate 3 proposed conceptual improvements along with a cost estimate for implementation. Note that the provided cost estimate does not include Regions Security cost estimates as given in **Appendix C** Gate Management proposal.

Table 2: Gate Queue Analysis – Calculation Summary

Gate 2 – South Gate			
Criteria	**Eq.**	**Existing Gate Operations**	**Proposed Gate Operations**
Service Rate	(μ)	5 sec/vehicle (720 vph)	10 sec/vehicle (360 vph)
Arrival Rate	(λ)	330 vph	330 vph
Utilization	(p)	0.458 ratio	0.917 ratio
Average Wait	(W)	0.07 mins	1.83 mins
Average Veh.	(L)	1 vehicle	11 vehicles
95th %tile.	**(Q)**	**3 vehicles**	**17 vehicles**
Storage Length		700’ (28 vehicles)	
Sufficient Storage?		**Yes**	**Yes**
Gate 3 – West Gate			
Criteria	**Eq.**	**Existing Gate Operations**	**Proposed Gate Operations**
Service Rate	(μ)	5 sec/vehicle (720 vph)	10 sec/vehicle (360 vph)
Arrival Rate	(λ)	140 vph	140 vph
Utilization	(p)	0.194 ratio	0.389 ratio
Average Wait	(W)	< 0.01 mins	0.11 mins
Average Veh.	(L)	1 vehicle	1 vehicle
95th %tile.	**(Q)**	**1 vehicle**	**2 vehicles**
Storage Length		550’ (22 vehicles)	
Sufficient Storage?		**Yes**	**Yes**

Based on the analysis and assuming a conservative service rate of 10 seconds per vehicle for the proposed gate system, it was concluded that both Gates 2 and 3 will be able to accommodate visitors in a timely manner while maintaining sufficient storage.

4.0 Conclusion and Recommendations

This traffic memorandum aims to addresses the need of a gate system due to growing security concerns of the Three Island community. The proposed improvements include a monitored gated system which will provide controlled access and security by monitoring ingress vehicles without restricting right of access. This configuration will allow residents and visitors to enter and exit with minimal interference while maintaining the monitoring system in place.

The queue analysis conducted as part of this study confirms that the existing gate can efficiently accommodate the expected peak hour visitor traffic. Analysis shows that the provided queuing space of 700 feet and 550 feet for gates 2 and 3 respectively provides sufficient storage to handle peak-hour demands assuming a conservative gate service rate of 10 seconds per vehicle.

Considering the results, implementation of the proposed gated monitoring system will not adversely impact the surrounding roadway network.

Appendix A
Data Collection

County: 99
Station: 1106
Description: GATE 2 THE THREE ISLAND (THREE ISLANDS BLVD)
Start Date: 04/08/2025
Start Time: 0000

Direction: S					
Time	1st	2nd	3rd	4th	Total
0000	21	16	16	7	60
0100	9	6	7	5	27
0200	3	3	5	4	15
0300	4	7	5	3	19
0400	6	4	19	5	34
0500	18	20	24	24	86
0600	50	53	83	97	283
0700	127	107	164	178	576
0800	182	160	184	162	688
0900	133	166	134	141	574
1000	127	128	134	119	508
1100	117	98	117	88	420
1200	117	97	112	106	432
1300	105	100	86	91	382
1400	89	101	85	81	356
1500	79	90	87	95	351
1600	91	109	81	108	389
1700	116	87	91	99	393
1800	93	96	101	91	381
1900	78	80	95	68	321
2000	59	64	58	47	228
2100	42	41	38	43	164
2200	24	33	27	28	112
2300	24	14	14	14	66
24-Hour Totals:					6865

Peak Volume Information

	Hour	Volume
A.M.	745	704
P.M.	1200	432
Daily	745	704

Generated by SPS 5.0.0.61

County: 99
Station: 1106
Description: GATE 2 THE THREE ISLAND (THREE ISLANDS BLVD)
Start Date: 04/09/2025
Start Time: 0000

Direction: S

Time	1st	2nd	3rd	4th	Total
0000	11	8	9	3	31
0100	6	3	8	4	21
0200	4	9	4	6	23
0300	2	2	1	3	8
0400	9	8	15	13	45
0500	15	13	15	31	74
0600	39	43	68	72	222
0700	95	100	132	122	449
0800	145	124	141	130	540
0900	144	116	114	106	480
1000	125	115	94	124	458
1100	99	107	124	116	446
1200	121	111	94	97	423
1300	101	104	110	105	420
1400	102	98	109	97	406
1500	119	106	120	120	465
1600	111	107	110	115	443
1700	120	98	118	119	455
1800	116	108	120	77	421
1900	95	104	122	122	443
2000	96	91	86	73	346
2100	58	71	64	48	241
2200	51	49	27	22	149
2300	25	34	26	17	102
24-Hour Totals:					7111

Peak Volume Information

	Hour	Volume
A.M.	800	540
P.M.	1500	465
Daily	800	540

Generated by SPS 5.0.0.61

County: 99
Station: 1107
Description: GATE 2 THE THREE ISLAND LANE 1 VISITOR
Start Date: 04/08/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	16	7	5	6	34
0100	5	1	2	0	8
0200	3	3	0	3	9
0300	2	0	1	1	4
0400	0	2	1	1	4
0500	1	2	2	3	8
0600	3	5	10	15	33
0700	18	16	28	27	89
0800	29	27	38	33	127
0900	38	35	32	49	154
1000	31	29	36	36	132
1100	49	43	44	50	186
1200	49	50	60	33	192
1300	52	40	43	38	173
1400	59	38	48	54	199
1500	57	57	43	46	203
1600	70	59	79	72	280
1700	64	74	68	79	285
1800	76	63	51	62	252
1900	62	42	57	52	213
2000	52	56	50	40	198
2100	24	33	43	39	139
2200	33	24	21	16	94
2300	29	22	12	6	69
24-Hour Totals:					3085

Peak Volume Information

	Hour	Volume
A.M.	830	144
P.M.	1715	297
Daily	1715	297

Generated by SPS 5.0.0.61

County: 99
Station: 1107
Description: GATE 2 THE THREE ISLAND LANE 1 VISITOR
Start Date: 04/09/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	10	12	7	3	32
0100	2	5	2	2	11
0200	3	4	2	2	11
0300	2	1	2	2	7
0400	5	0	1	2	8
0500	1	1	3	7	12
0600	4	6	10	17	37
0700	22	20	20	30	92
0800	39	33	33	17	122
0900	28	19	38	51	136
1000	39	49	48	19	155
1100	30	47	49	35	161
1200	52	40	41	49	182
1300	47	42	44	51	184
1400	72	52	56	59	239
1500	52	43	65	70	230
1600	71	69	64	65	269
1700	92	64	105	97	358
1800	64	60	85	53	262
1900	57	64	62	58	241
2000	65	58	29	39	191
2100	40	43	53	28	164
2200	32	24	29	29	114
2300	28	20	16	13	77
24-Hour Totals:					3295

Peak Volume Information

	Hour	Volume
A.M.	745	135
P.M.	1700	358
Daily	1700	358

Generated by SPS 5.0.0.61

County: 99
Station: 1108
Description: GATE 2 THE THREE ISLAND LANE 2 RESIDENT
Start Date: 04/08/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	18	14	16	13	61
0100	6	7	4	5	22
0200	3	1	6	3	13
0300	7	4	3	1	15
0400	1	3	2	2	8
0500	4	3	6	9	22
0600	2	18	18	26	64
0700	31	39	35	53	158
0800	64	35	58	83	240
0900	68	63	83	68	282
1000	65	63	69	78	275
1100	88	81	80	74	323
1200	54	55	56	63	228
1300	70	68	71	86	295
1400	78	79	65	81	303
1500	83	82	94	75	334
1600	83	90	82	96	351
1700	120	117	106	120	463
1800	115	97	107	108	427
1900	76	81	107	81	345
2000	66	77	67	64	274
2100	59	58	66	47	230
2200	49	52	46	24	171
2300	51	33	29	22	135
24-Hour Totals:					5039

Peak Volume Information

	Hour	Volume
A.M.	845	297
P.M.	1700	463
Daily	1700	463

Generated by SPS 5.0.0.61

County: 99
Station: 1108
Description: GATE 2 THE THREE ISLAND LANE 2 RESIDENT
Start Date: 04/09/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	27	20	9	14	70
0100	8	6	13	8	35
0200	5	3	9	3	20
0300	1	2	2	4	9
0400	3	2	4	5	14
0500	2	0	9	9	20
0600	3	12	16	23	54
0700	31	35	35	38	139
0800	47	61	63	90	261
0900	71	91	74	85	321
1000	72	72	70	96	310
1100	103	119	88	56	366
1200	80	73	72	68	293
1300	81	63	74	65	283
1400	98	95	86	85	364
1500	108	84	103	84	379
1600	120	97	103	76	396
1700	128	90	115	126	459
1800	118	117	128	68	431
1900	95	91	104	95	385
2000	76	74	84	71	305
2100	53	76	63	48	240
2200	51	44	40	33	168
2300	48	37	40	37	162
24-Hour Totals:					5484

Peak Volume Information

	Hour	Volume
A.M.	845	326
P.M.	1745	489
Daily	1745	489

Generated by SPS 5.0.0.61

County: 99
Station: 1109
Description: GATE 2 THE THREE ISLAND LANE 3 RESIDENT
Start Date: 04/08/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	0	0	0	0	0
0100	0	0	0	0	0
0200	0	0	0	0	0
0300	1	0	0	0	1
0400	0	0	0	0	0
0500	0	0	0	0	0
0600	0	0	0	0	0
0700	0	0	1	1	2
0800	0	0	1	0	1
0900	1	0	0	2	3
1000	0	0	0	0	0
1100	0	0	0	0	0
1200	0	0	0	0	0
1300	0	0	0	0	0
1400	0	1	0	0	1
1500	0	0	0	1	1
1600	0	1	0	0	1
1700	2	0	0	3	5
1800	1	1	0	0	2
1900	0	0	1	1	2
2000	0	0	3	2	5
2100	0	1	0	0	1
2200	1	1	0	0	2
2300	0	0	1	0	1
24-Hour Totals:					28

Peak Volume Information

	Hour	Volume
A.M.	700	2
P.M.	1700	5
Daily	2030	6

Generated by SPS 5.0.0.61

County: 99
Station: 1109
Description: GATE 2 THE THREE ISLAND LANE 3 RESIDENT
Start Date: 04/09/2025
Start Time: 0000

Direction: N

Time	1st	2nd	3rd	4th	Total
0000	0	0	0	0	0
0100	1	0	0	0	1
0200	0	0	0	0	0
0300	0	0	0	0	0
0400	0	0	0	0	0
0500	1	0	0	0	1
0600	0	0	0	0	0
0700	3	0	0	0	3
0800	0	0	0	1	1
0900	0	0	0	0	0
1000	0	0	1	0	1
1100	0	1	0	0	1
1200	3	1	0	0	4
1300	1	2	0	1	4
1400	0	0	0	0	0
1500	2	0	0	2	4
1600	1	4	1	0	6
1700	0	0	1	0	1
1800	2	0	2	2	6
1900	1	0	1	3	5
2000	2	3	1	0	6
2100	0	1	3	1	5
2200	0	1	0	1	2
2300	1	2	1	0	4
24-Hour Totals:					55

Peak Volume Information

	Hour	Volume
A.M.	645	3
P.M.	1545	8
Daily	1930	9

Generated by SPS 5.0.0.61


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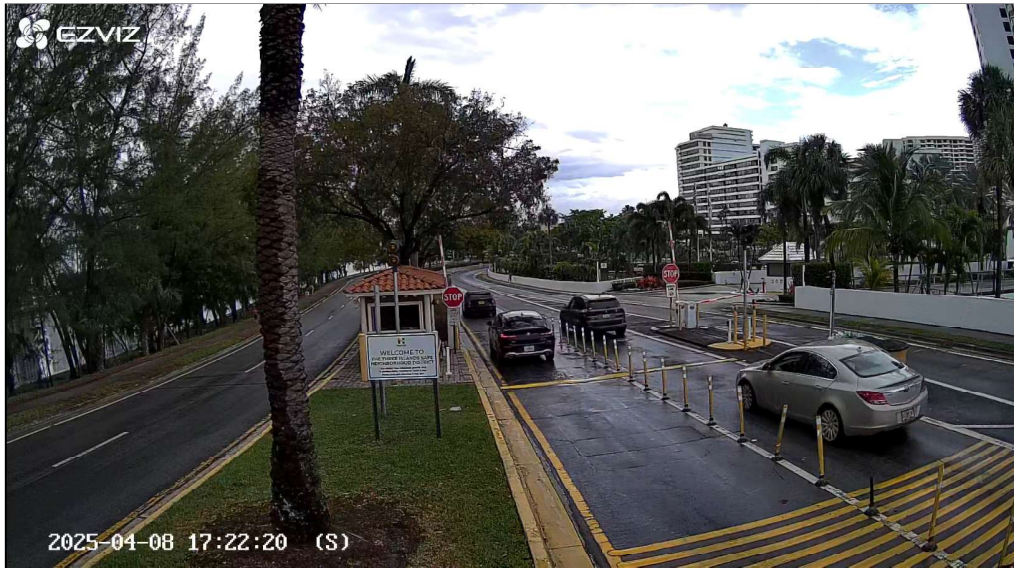
EZVIZ
2025-04-08 17:22:14 (S)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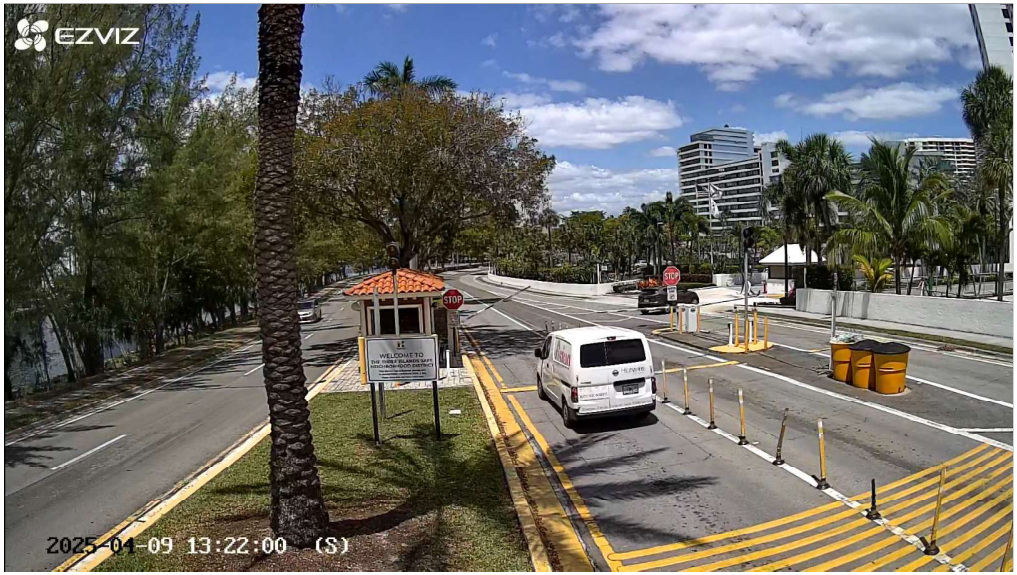
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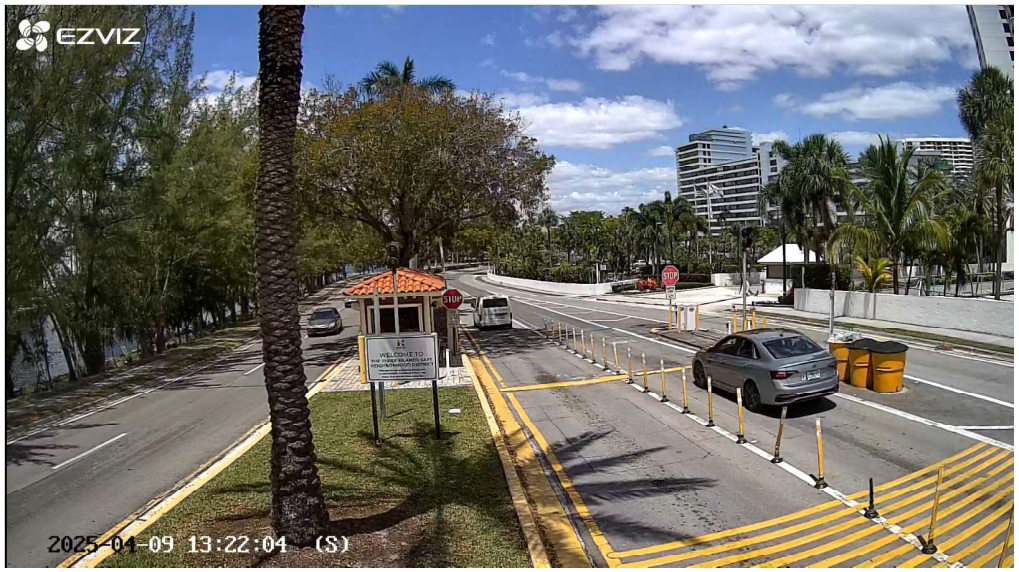
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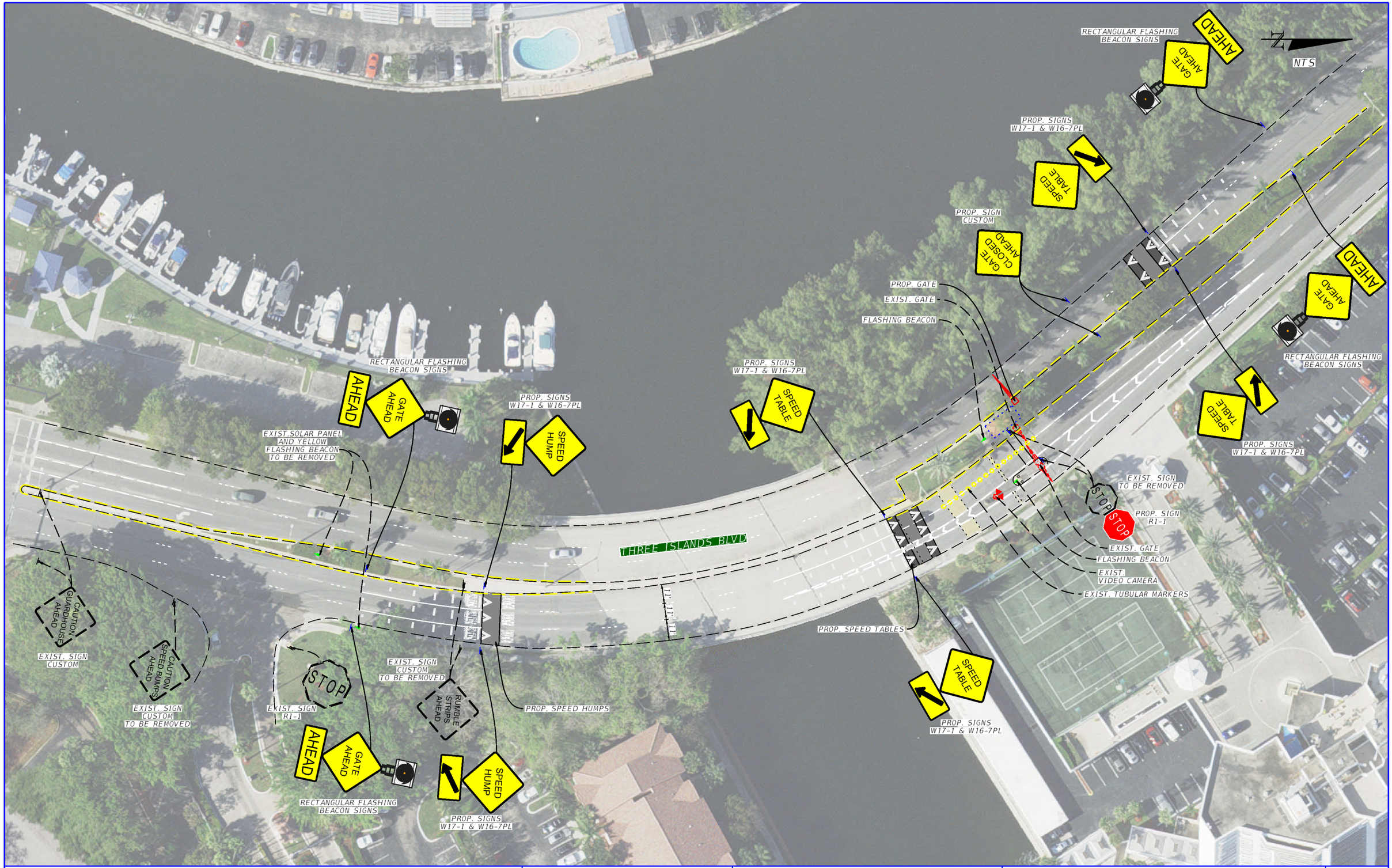
Appendix B
Gate Proposed Conceptual Improvements
and Cost Estimates



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA

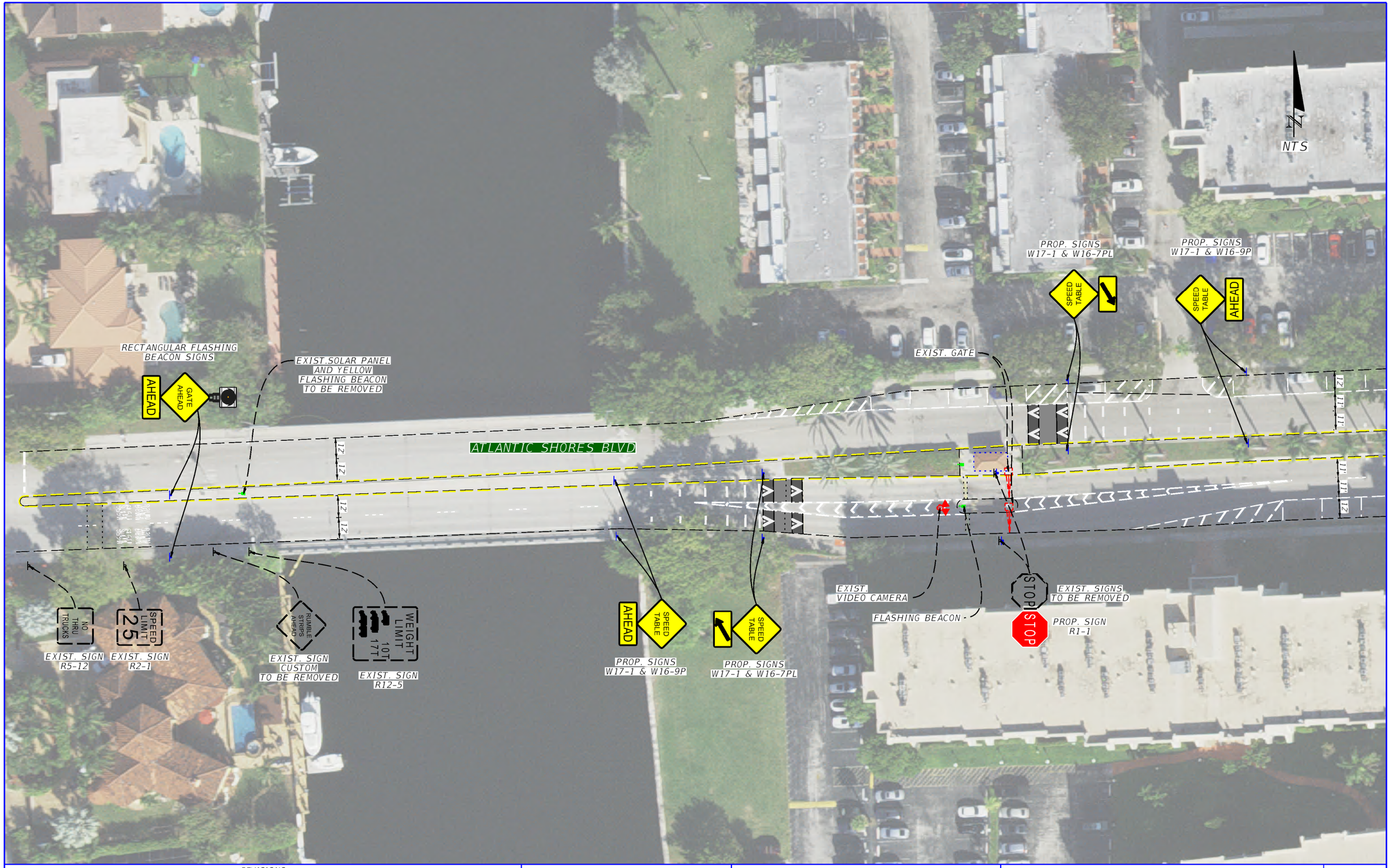
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

PROPOSED CONDITION
GATE 2

SHEET NO.
1

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

CONSTRUCTION COST ESTIMATE - THREE ISLAND (GATE 2)					
PAY ITEM NO.	**DESCRIPTION**	**UNIT**	**UNIT COST**	**QUANTITY**	**COST**
	SIGNAL				
	ROADWAY				
0102 1	MAINTENANCE OF TRAFFIC	LS	$1,234.98	1	$1,234.98
0110 1 1	CLEARING & GRUBBING	AC	$5,550.29	0.500	$2,775.15
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	$125.49	15.88	$1,992.78
0337 7 25	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG 76-22	TN	$167.15	7.39	$1,235.24
0327 70 11	MILLING EXISTING ASPHALT PAVEMENT, 2 1/4" AVG DEPTH	SY	$8.91	194	$1,728.54
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	$39.67	112	$4,443.04
	PAVEMENT MARKIG AND SIGNS				
0700 1111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	$512.84	10	$5,128.40
0700 1600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	$39.37	5	$196.85
0711 15101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	$5,375.33	0.05	$268.77
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	$5.25	280	$1,470.00
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	$124.61	13	$1,619.93
0654 2 15	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWER, MAST ARM MOUNT RRFB SIGN ASSEMBLY	EA	$2,417.00	4	$9,668.00
				TOTAL	$22,093.67
				DESIGN (20%)	$4,418.73
				POST DESIGN (9%)	$1,988.43
				MOBILIZATION & MOT (15%)	$3,314.05
				CONTENGENCY (10%)	$2,209.37
				CEI (15%)	$3,314.05
				GRAND TOTAL	$37,338.30



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

PROPOSED CONDITION
GATE 3

SHEET NO.
3

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

CONSTRUCTION COST ESTIMATE - POLICE GATE (GATE 3)					
PAY ITEM NO.	**DESCRIPTION**	**UNIT**	**UNIT COST**	**QUANTITY**	**COST**
	SIGNAL				
	ROADWAY				
0102 1	MAINTENANCE OF TRAFFIC	LS	$1,234.98	1	$1,234.98
0110 1 1	CLEARING & GRUBBING	AC	$5,550.29	0.2801	$1,554.64
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	$125.49	10.4	$1,305.10
0337 7 25	ASPHALT CONCRETE FRICTION COURSE, INC BIT, FC-5, PG 76-22	TN	$167.15	4.02	$671.94
0327 70 11	MILLING EXISTING ASPHALT PAVEMENT, 2 1/4" AVG DEPTH	SY	$8.91	127.56	$1,136.56
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	$39.67	67	$2,657.89
	PAVEMENT MARKIG AND SIGNS				
0700 1111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA	$512.84	8	$4,102.72
0700 1600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	$39.37	3	$118.11
0711 15101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	$5,375.33	0.05	$268.77
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	$5.25	140	$735.00
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	$124.61	8	$996.88
0654 2 15	MIDBLOCK CROSSWALK: RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWER, MAST ARM MOUNT RRFB SIGN ASSEMBLY	EA	$2,417.00	2	$4,834.00
				TOTAL	$14,782.58
				DESIGN (20%)	$2,956.52
				POST DESIGN (9%)	$1,330.43
				MOBILIZATION & MOT (15%)	$2,217.39
				CONTENGENCY (10%)	$1,478.26
				CEI (15%)	$2,217.39
				GRAND TOTAL	$24,982.56

Appendix C
Regions Security
Gate Management Proposal

REGIONS SECURITY

"Ensuring A Safer Tomorrow"

Three Islands

Gate Management

Access Control Upgrade

Confidential Proposal
May 9, 2025

Regions Security Services
1100 NW 72nd Ave
Miami, FL 33126
(305) 517-1266

www.RegionsSecurity.us
technology@RegionsSecurity.us

About Us

Regions Security' mission is to optimize the protection of our clients' assets by developing and implementing a strategic plan. We strive to be the most dynamic and resourceful security provider for all our clients. As one of the tops fastest growing companies in South Florida, Regions Security continues to expand rapidly in all major vertical markets. Our business extends throughout the tri-county area with contracts from north of Jupiter in Palm Beach County to south of Homestead in Miami-Dade County. Regions Security offers innovative technology, highly trained security professionals and best-in-class customer service and support. We meet your needs, your budget and help you and your organization accomplish your security goals.

Regions Security has earned the confidence of our valued customers by providing professional assistance with all our access control and video surveillance installations. Our company's corporate offices and customer support center are in Miami, Florida adjacent to Miami International Airport. Our facilities support our networking and systems engineering department, as well as our help desk and technical services. We maintain a customer support department providing 24/7 help desk support. We only carry professional grade equipment and security software. Each of our support representatives has completed comprehensive training on all our products and has extensive knowledge of product application and equipment troubleshooting. Regions can help you understand your technological security risks by offering a complementary Security Risk Assessment of your company's operation, office and exterior areas including parking lots and building entrances. We will help you determine the best Access Control and Surveillance Systems for your facility to guarantee the highest level of uninterrupted operation. Regions works with you to design a customized solution that addresses the evolving security needs of your organization in the most effective way possible.

Digital video surveillance helps deter crime, theft, vandalism, and employee theft. Security cameras and digital video recording may reduce fraudulent liability claims with clearly documented incidents. Video surveillance may also improve employee productivity and business efficiencies. Access Control systems help protect valuable assets and sensitive areas by restricting and managing all entry points. These systems help increase employee safety and eliminate costly re-keying and lock changes. Experienced installation service members guarantee your system will be trouble-free. Each system includes a full 100% one-year warranty on parts and labor. Our technicians are available 24 hours a day, seven days a week. We are focused on customer satisfaction, which is an integral part of our past success and the cornerstone of our future growth. Our goal is 100% customer satisfaction.

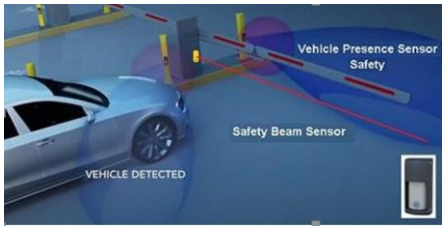
Regions Security is a Veteran-Owned Small Business and a specialized provider of security and ancillary services. Regions Security was born out of the desire and need to address unresponsive and substandard services, red-tape and service delays often offered by other companies. Regions Security was formed in 2010 by its President & CEO Carlos Rivero, Jr. after serving in the U.S. Army and managing numerous security companies. Mr. Rivero is a recognized service-disabled veteran who served in the Operation Enduring Freedom military initiative in 2001-2002.

Gate Access Control System

At LiftMaster, we don't just open gates, we open possibilities. LiftMaster is driven by innovation, reliability, and commitment to safety. As a leading name in gate operator technology, we specialize in designing and manufacturing high-performance access control solutions for residential, commercial, and industrial applications. For decades, LiftMaster has set the standard in the industry by delivering gate operators that combine cutting-edge technology with unmatched durability. Whether securing a gated community, managing traffic flow at a business facility, or automating estate entrances, our products are built to meet the highest standards of performance and reliability. We offer a full line of gate operator solutions, including slide, swing, barrier, and overhead gate systems—each engineered to integrate seamlessly with LiftMaster's smart access control platforms. With features like myQ® connectivity, real-time alerts, remote monitoring, and secure cloud-based management, LiftMaster gate operators go beyond automation, they provide peace of mind. Our nationwide network of trained professionals ensures that every LiftMaster system is installed with precision and supported with expert service. We take pride in helping property owners and facility managers create safer, more efficient environments. Innovative Counterbalance System that simplifies arm direction changes, Breakaway Arm Technology designed to protect against damage from vehicle arm strikes. Integrated LED Tower Lights for better visibility, High Speed Operation with a 2.5s open and close duration, Built-in Wi-Fi® lets you easily connect to myQ Facility software, allowing you to get valuable data and insights to improve operations.

GateArms Technologies, based in Florida, is a leading manufacturer of innovative LED gate arms designed to enhance visibility and safety. With multiple patents, we pioneered the first affordable illuminated gate arm for communities. Our products combine durability, DOT-compliant reflective tape, and bright LED lighting to improve access control at gates nationwide.

Optex is a trusted industry leader, known for innovative sensing solutions that deliver reliable performance detecting the presence of vehicles in all environments. Ideal for gate and barrier arm applications, the sensor is installed above ground near the gate operator. It can be mounted on a pole. The detection area is customizable with 8 range settings, 5 sensitivity levels, and simple calibration. In security gate applications, the sensor detects vehicles only, ignoring pedestrian movement. No additional ground loop detectors are needed, no street cutting required, no more faulty loops caused by weather changes.



At Regions Security, we specialize in reliable gate arm solutions for residential communities, commercial properties, and private facilities across South Florida. Focused on quality, safety, and performance, we design, install, and maintain automatic gate systems that regulate vehicle access, enhance security, and improve traffic flow. With years of experience in access control and a commitment to personalized service, our team ensures each system is expertly installed and backed by responsive support. We deliver dependable solutions, from initial consultation to ongoing maintenance, to keep your entrances secure and running smoothly every day.

Gate Barrier Access
(Entry Lanes – Atlantic Shores & Three Island Blvd.)

Description **QTY**

Liftmaster New Arm Gate Barrier with Breakaway Arm and LED Tower Lights Technology **5**

Rated Continuous Duty Cycle, 2.5-second Open/Close time, LCD color display interface, electronic limit settings, DC Logic Board with visual interface, 24V DC brushless motor with soft start/stop, 303.5:1 direct drive gear reduction, internal spring system for counterbalance, 10-gauge aluminum frame, 120Vac 1PH voltage connections, battery backup 2x 12V 7Ah batteries, temperature -4°F to 140°FLiftMaster Security+ 2.0 radio receiver with 3 channels, diagnostics log, functional arm lengths of 10 ft, 12 ft, and 14 ft, optional red/green LED arms.

Locations: Atlantic Shores Blvd. (2), Three Island Blvd. (3)

Optex Microwave & Ultrasonic Vehicle Sensor **5**

Microwave detection patterns (blue above) are adjustable from 6.56 to 18.04 feet. The Ultrasonic Sensor is for close range detection (purple). The OVS-01GT also features 5 sensitivity settings. Microwave and Ultrasonic combination Microwave 24GHz, Ultrasonic 56KHz 500msec 12-24VDC. -22°F to 122°F. Factory Warranty is one year on electronic components.

Omron Reflective Photoelectric Beam Sensor (Visitor & Residents) (One per Lane) **5**

Omron Long Range Photoelectric Sensor with Reflector, Universal AC/DC Supply Voltage, DPDT 10A Relay Output, Easy to wire terminal strip, Mutual Interface Protection, Retroreflective, 12-240VDC, 10m (32.8ft) Sensing Distance, heavy-duty, 950nm pulse modulated infrared LED light source to detect included Reflector.

TRENDnet 10 Port Managed PoE Switch (E. Hallandale Beach, & Three Isles) **2**

8 Gigabit ports, 2 Shared Gigabit ports (RJ-45/SFP), managed interface, IPv6, LACP, VLAN, QoS, Snooping, Bandwidth control per port, 12Gbps switching capacity, IEEE 802.1p QoS with queue scheduling support, Fanless rack mountable metal housing,

Cyberpower 1500VA LCD 120V 1500VA 8 Outlets **2**

Designed for servers, desktops and all peripherals with 8 outlets providing backup & surge protection. LCD display voltage, load and usage.

Gate Barrier Deployment

Installation Services

Includes the installation of new barrier gates, control switches, mounting brackets, and protective housings, cables, materials and labor. *This service does not include city permits, engineering plans, or any associated processing fees. A safety loop will be required to protect vehicles. Price includes the deployment of 5 new ground loops.*

Engineering and Programming Services

Regions will deploy and configure a secure network infrastructure to manage all installed devices. Each device will be programmed for optimal performance, including all motors, switches, and vehicle sensors.

Access Control Systems (Two Entry Lane & two Exit Lanes)- TOTAL $ 46,465.00
(Plus, Sales Tax)

Gate Barrier Access
(Exit Lanes – Atlantic Shores & East Hallandale)

Description	QTY

Liftmaster New Arm Gate Barrier with Breakaway Arm and LED Tower Lights Technology **3**

Rated Continuous Duty Cycle, 2.5-second Open/Close time, LCD color display interface, electronic limit settings, DC Logic Board with visual interface, 24V DC brushless motor with soft start/stop, 303.5:1 direct drive gear reduction, internal spring system for counterbalance, 10-gauge aluminum frame, 120Vac 1PH voltage connections, battery bac3kup 2x 12V 7Ah batteries, temperature -4°F to 140°FLiftMaster Security+ 2.0 radio receiver with 3 channels, diagnostics log, functional arm lengths of 10 ft, 12 ft, and 14 ft, optional red/green LED arms.
Locations: Atlantic Shores Blvd. 1), East Hallandale Blvd. (2)

Optex Microwave & Ultrasonic Vehicle Sensor **3**

Microwave detection patterns (blue above) are adjustable from 6.56 to 18.04 feet. The Ultrasonic Sensor is for close range detection (purple). The OVS-01GT also features 5 sensitivity settings. Microwave and Ultrasonic combination Microwave 24GHz, Ultrasonic 56KHz 500msec 12-24VDC. -22°F to 122°F. Factory Warranty is one year on electronic components.

Omron Reflective Photoelectric Beam Sensor (Visitor & Residents) (One per Lane) **3**

Omron Long Range Photoelectric Sensor with Reflector, Universal AC/DC Supply Voltage, DPDT 10A Relay Output, Easy to wire terminal strip, Mutual Interface Protection, Retroreflective, 12-240VDC, 10m (32.8ft) Sensing Distance, heavy-duty, 950nm pulse modulated infrared LED light source to detect included Reflector.

Gate Barrier Deployment

Installation Services

Includes the installation of new barrier gates, control switches, mounting brackets, and protective housings, cables, materials and labor. *This service does not include city permits, engineering plans, or any associated processing fees. A safety loop will be required to protect vehicles. Price includes the deployment of 4 new ground loops.*

Engineering and Programming Services

Regions will deploy and configure a secure network infrastructure to manage all installed devices. Each device will be programmed for optimal performance, including all motors, switches, and vehicle sensors.

Access Control Systems (Three Exit Lanes)- TOTAL $ 24,532.00
(Plus, Sales Tax)