

Memorandum



Date: October 6, 2020

To: Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Subject: Resolution Authorizing the Execution of a Tri-Party Agreement Between Miami-Dade County, the Florida Department of Transportation and the South Florida Regional Transportation Authority for the Installation of Railroad Crossing Traffic Control Devices at Opa-Locka Boulevard in the Vicinity of Ali Baba Avenue

Agenda Item No. 8(N)(36)

Resolution No. R-1003-20

Recommendation

It is recommended that the Board of County Commissioners (Board) approve the attached resolution authorizing the execution of a Tri-Party Agreement among Miami-Dade County, the Florida Department of Transportation (FDOT) and the South Florida Regional Transportation Authority (SFRTA) for the installation of railroad crossing traffic control devices at Opa-Locka Boulevard, in the vicinity of Ali Baba Avenue.

Scope

This Tri-Party Agreement is for one railroad crossing located in the City of Opa-Locka. The railroad line abuts County Commission District 1 to the south and County Commission District 2 to the north, represented by Commissioner Barbara J. Jordan and Commissioner Jean Monestime, respectively.

Fiscal Impact/Funding Source

The County will be solely responsible for the yearly maintenance fee of the crossing traffic control devices in the amount of \$4,465, which is 50 percent of the total maintenance fee. The SFRTA will cover the other 50 percent as stipulated by the cost sharing policy. SFRTA will install all the necessary facilities and FDOT will pay for the installation costs. The funding source to be used for the yearly maintenance fee is Secondary Gas Tax.

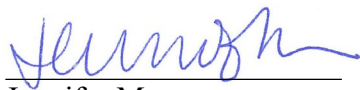
Track Record/Monitor

Octavio Marin, P.E, Department of Transportation and Public Works, will oversee and monitor this project.

Background

The yearly safety diagnostic review coordinated by FDOT revealed the need for improvements to the crossing traffic control devices at this railroad crossing. The cost sharing policy was approved by this Board on October 5, 1976 under Resolution R-1090-76, which stipulates that the "County may participate in the cost of maintaining grade crossing protection devices in the amount of fifty percent (50%) of the cost."

Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners
Page 2

A handwritten signature in blue ink, appearing to read "Jennifer Moon", is positioned above a horizontal line.

Jennifer Moon
Deputy Mayor



MEMORANDUM (Revised)

TO: Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners

DATE: October 6, 2020

FROM: Abigail Price-Williams
County Attorney

SUBJECT: Agenda Item No. 8(N)(36)

Please note any items checked.

- ☐ "3-Day Rule" for committees applicable if raised
- ☐ 6 weeks required between first reading and public hearing
- ☐ 4 weeks notification to municipal officials required prior to public hearing
- ☐ Decreases revenues or increases expenditures without balancing budget
- ☐ Budget required
- ☐ Statement of fiscal impact required
- ☐ Statement of social equity required
- ☐ Ordinance creating a new board requires detailed County Mayor's report for public hearing
- ☐ No committee review
- ☐ Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____) to approve
- ☒ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(N)(36)
10-6-20

RESOLUTION NO. R-1003-20

RESOLUTION AUTHORIZING THE EXECUTION OF A TRI-PARTY AGREEMENT BETWEEN MIAMI-DADE COUNTY, THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY FOR THE INSTALLATION OF RAILROAD CROSSING TRAFFIC CONTROL DEVICES AT OPA LOCKA BOULEVARD IN THE VICINITY OF ALI BABA AVENUE

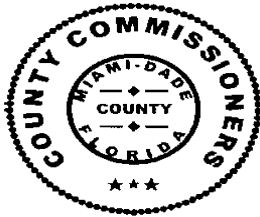
WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by this reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves a Tri-Party Agreement between Miami-Dade County, the State of Florida Department of Transportation, and the South Florida Regional Transportation Authority for the installation of railroad crossing traffic control devices at Opa-Locka Boulevard, in the vicinity of Ali Baba Avenue; and authorizes the County Mayor or County Mayor's designee to execute same on behalf of Miami-Dade County and to exercise all provisions contained therein.

The foregoing resolution was offered by Commissioner **Rebeca Sosa**, who moved its adoption. The motion was seconded by Commissioner **José "Pepe" Diaz** and upon being put to a vote, the vote was as follows:

Audrey M. Edmonson, Chairwoman		aye	
Rebeca Sosa, Vice Chairwoman		aye	
Esteban L. Bovo, Jr.	aye	Daniella Levine Cava	aye
Jose "Pepe" Diaz	aye	Sally A. Heyman	aye
Eileen Higgins	aye	Barbara J. Jordan	aye
Joe A. Martinez	aye	Jean Monestime	aye
Dennis C. Moss	absent	Sen. Javier D. Souto	aye
Xavier L. Suarez	aye		

The Chairperson thereupon declared this resolution duly passed and adopted this 6th day of October, 2020. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.



MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: **Melissa Adames**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

A handwritten signature in dark ink, appearing to read "HBO" followed by a diagonal slash, positioned over a horizontal line.

Hugo Benitez

**STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
RAILROAD REIMBURSEMENT AGREEMENT
GRADE CROSSING AND CROSSING TRAFFIC CONTROL DEVICES
SOUTH FLORIDA RAIL CORRIDOR ONLY
COUNTY ROADS RR CROSSINGS ONLY**

Financial Project I.D.	Road Name or Number	County Name	Parcel & R/W Number	FAP Number
440472-1-57-01	OPA-LOCKA BLVD.	MIAMI-DADE	1(SIG-Q)	D617 071 B

THIS AGREEMENT, made and entered into this _____ day of _____, _____ by and between the **STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION**, hereinafter called the **DEPARTMENT**, and **MIAMI-DADE COUNTY**, a political subdivision of the State of Florida, acting by and through its Board of County Commissioners, hereinafter called the **COUNTY**, and the **SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY**, a body politic and corporate and an agency of the State of Florida created pursuant to Chapter 343, Florida Statutes, hereinafter called the **SFRTA**.

WITNESSETH:

WHEREAS, the **DEPARTMENT** and CSX Transportation, Inc., ("**CSXT**") entered into a contract for Installment Sale and Purchase, for the South Florida Rail Corridor ("**SFRC**") dated May 11, 1988, at which time the **DEPARTMENT** became the owner of said property and **CSXT** retained an exclusive perpetual easement for Rail Freight Operations within the **SFRC** upon which railroad freight, intercity passenger and commuter rail services are currently being conducted, and

WHEREAS, the **DEPARTMENT** and **CSXT** entered into an Operating and Management Agreement Phase A (OMAPA) pertaining to the line of railroad between West Palm Beach and Miami, Florida and related properties on May 11, 1988 (the "Phase A Agreement"), pursuant to which **CSXT** managed and maintained the **SFRC** property on behalf of the **DEPARTMENT** until March 28th, 2015, and

WHEREAS, the **DEPARTMENT** and **CSXT** entered into an Amended South Florida Operating and Management Agreement (SFOMA) on January 25th, 2013, as may be further amended, which provides for termination of OMAPA and transition of management, operation, and maintenance of the **SFRC** from **CSXT** to the **DEPARTMENT** upon the date determined pursuant to subsection 1(c) of SFOMA (the "SFOMA Commencement Date", which was March 29th, 2015), and

WHEREAS, the **DEPARTMENT** and the **SFRTA** entered into the **SFRC** Operating Agreement ("Operating Agreement") on June 13th, 2013, by which the **SFRTA** on behalf of the **DEPARTMENT**, has been managing, operating, maintaining, and dispatching, railroad operations on the **SFRC** as of the SFOMA Commencement

Date, and also maintains and repairs the rights-of-way, layover facilities and yards, state-owned buildings and facilities, tracks, bridges, communications, signals and all appurtenances on the SFRC, and

WHEREAS, the **SFRTA**, is, constructing, reconstructing or otherwise changing a portion of the Public Road System, which crosses at grade the right-of-way and track(s) of the SFRC at milepost **SX 1029.88**, FDOT/Association of American Railroads (AAR) Crossing Number **628323J**, at or near **CITY OF OPA-LOCKA**, Florida as shown on the Project Location Sheet attached hereto and made a part hereof, and

WHEREAS, the **COUNTY** is not a party to any of the aforementioned agreements and now agrees to enter into this Railroad Reimbursement Agreement ("Agreement") with the **DEPARTMENT** and **SFRTA**,

NOW, THEREFORE, in consideration of the mutual undertakings as set forth herein, the parties hereto agree as follows:

1. The **SFRTA** shall perform work based on the categories selected below, within the **DEPARTMENT's** right-of-way along the SFRC, over its tracks at the above-referenced location, herein referred to as the ("Project").

(a) ☐ Surface Work

If crossing surface work is required for the Project, the **SFRTA**, shall provide, furnish or have furnished, all necessary material required for, and will construct at **COUNTY's** sole cost and expense a Standard Railroad Crossing Type -Choose A Type- in accordance with the **DEPARTMENT's** Standard Plans for Road and Bridge Construction Index No. 830-T01 attached hereto and by this reference made a part hereof, and in accordance with all other Federal Railroad Administration (FRA) and American Railway Engineering and Maintenance of Way Association (AREMA) standards and guidelines. The initial construction cost and the cost of any reconstruction or rehabilitation thereafter shall be paid by the **COUNTY**. In accordance with the Operating Agreement and the SFOMA Agreement, upon completion of the crossing, the SFRTA shall be responsible for the following:

1. Single Track crossing: routine maintenance of all trackbed and rail components plus the highway roadbed and surface for the width of the rail ties within the crossing area.
2. Multiple-track crossing: routine maintenance of all trackbed and rail components plus the highway roadbed and surface for the width of the rail ties within the crossing area and between tracks.

Routine maintenance includes but is not limited to regular track inspections and any repairs to the concrete panels or asphalt within the area described as **SFRTA's** responsibility. The **COUNTY** shall be responsible for the maintenance of the highway roadbed and surface outside the railway ties. IT BEING EXPRESSLY UNDERSTOOD AND AGREED that if the **COUNTY** does not properly maintain the highway roadbed and surface outside the railroad ties, the **SFRTA** may, at its option and upon notification to the **COUNTY**, perform such maintenance work and bill the **COUNTY** directly for costs thus incurred. All costs required for any subsequent reconstruction or rehabilitation of the crossing, as may be requested by any of the parties to this Agreement, shall be the sole financial responsibility of the **COUNTY**. This provision shall be governed and reimbursed in accordance with the paragraphs as specified below.

(b) ☐ Signal Work (Non-US Code Title 23, Section 130)

If Railroad Grade Crossing Traffic Control Devices work is required for the Project, the **SFRTA**, shall provide, furnish or have furnished, all necessary material required for, and will install at the **COUNTY's** expense, automatic railroad grade crossing traffic control devices at said location in accordance with the **DEPARTMENT's** Standard Plans for Road and Bridge Construction Index No. 509-070 and/or 509-100 attached hereto, the Operating Agreement, and the SFOMA Agreement. This provision shall be governed and reimbursed in accordance with the paragraphs as specified below.

(c) ☒ Signal Work (US Code Title 23, Section 130)

If traffic control devices are being installed/upgraded under the Signal Safety Program (US Code Title 23, Section 130), then the **DEPARTMENT** will reimburse **SFRTA** for 100% of the costs of installation/upgrades pursuant to the **DEPARTMENT's** Standard Plans for Road and Bridge Construction Index No. 509-070 and/or 509-100 attached hereto, the Operating Agreement, and the SFOMA Agreement. This provision shall be governed and reimbursed in accordance with the paragraphs as specified below.

These paragraphs are applicable to work specified in paragraph 1(a) and/or 1(b):

2. If the project is for surface work or signal work (Non-US Code Title 23, Section 130) as identified in paragraph 1(a) or 1(b) above; all labor, services, materials, and equipment furnished by **SFRTA** in carrying out work to be performed, shall be billed by **SFRTA** directly to the **COUNTY**.
3. The **COUNTY** will reimburse **SFRTA** for the cost of watchmen or flagging service in the carrying out of work within or adjacent to the **SFRC**, or work requiring movement of equipment, employees or trucks across the **SFRC**, or when at times **SFRTA** and/or the **DEPARTMENT** agree that such a service is necessary.
4. The **COUNTY** hereby agrees to reimburse **SFRTA**, as detailed in this Agreement, for all costs incurred by it in the installation and/or adjustment of said facilities, in accordance with the provisions above. It is understood and agreed by and between the parties hereto that preliminary engineering costs incorporated within this Agreement shall also be subject to payment by the **COUNTY**.
5. It is understood and agreed that, if the project, is at **COUNTY** expense, the **COUNTY** shall receive fair and adequate credit for any salvage as a result of the above adjustment work; otherwise, the **DEPARTMENT** shall receive the salvage credit.
6. Upon completion of the work, the **SFRTA** shall, within one hundred eighty (180) days, furnish the **COUNTY** with three (3) copies of its final and complete billing of all costs incurred in connection with the work performed hereunder, such statement to follow as closely as possible the order of items contained in the estimate attached hereto. The **COUNTY** shall reimburse the **SFRTA** for its portion of all actual costs attributable to the Project subject to other provisions in this Agreement. The total for labor, overhead, travel expenses, transportation, equipment, material and supplies, handling costs, and other services shall be shown in such a manner as will permit ready comparison with the approved plans and estimates. Material shall be itemized where they represent major components of cost in the relocation following the pattern set out in the approved estimate as closely as possible. Salvage credits from recovered and replaced permanent and recovered temporary materials shall be reported in said bills in relative position with the charge for the replacement or the original charge for temporary use.

The final billing shall show the description and site of the Project; the date on which the first work was performed, or, if preliminary engineering or right-of-way items are involved, the date on which the earliest item of billed expenses was incurred; the date on which the last work was performed or the last item of billed expenses was incurred; and the location where the records and accounts billed can be audited. Adequate reference shall be made in the billing to the **SFRTA's** records, accounts, and other relevant documents. All cost records and accounts shall be subject to audit by a representative of the **COUNTY**. Upon receipt of invoices, prepared in accordance with the above reimbursement provisions, the **COUNTY** agrees to reimburse the **SFRTA** in the amount of such actual costs approved by the **COUNTY's** auditor.

These paragraphs are applicable to work specified in paragraph 1(c):

7. If the Project is for Signal Safety improvements under Title 23, Section 130, as identified in Paragraph 1c, above; then the **DEPARTMENT** agrees to reimburse **SFRTA** for all costs incurred for the installation and/or adjustment of said Project in accordance with the provisions herein.
8. All labor, services, materials, and equipment furnished by **SFRTA** in carrying out work to be performed, shall be billed by **SFRTA** directly to the **DEPARTMENT**. Separate records as to costs of contract bid terms and force account items performed by **SFRTA** shall also be furnished by **SFRTA** to the **DEPARTMENT**.
9. Upon completion of the work, the **SFRTA** shall, within one hundred eighty (180) days, furnish the **DEPARTMENT** with three (3) copies of its final and complete billing of all costs incurred in connection with the work performed hereunder, such statement to follow as closely as possible the order of items contained in the estimate attached hereto. The **DEPARTMENT** shall reimburse the **SFRTA** for its portion of all actual costs attributable to the Project subject to other provisions in this Agreement. The total for labor, overhead, travel expenses, transportation, equipment, material and supplies, handling costs, and other services shall be shown in such a manner as will permit ready comparison with the approved plans and estimates. Material shall be itemized where they represent major components of cost in the relocation following the pattern set out in the approved estimate as closely as possible. Salvage credits from recovered and replaced permanent and recovered temporary materials shall be reported in said bills in relative position with the charge for the replacement or the original charge for temporary use.

The final billing shall show the description and site of the Project; the date on which the first work was performed, or, if preliminary engineering or right-of-way items are involved, the date on which the earliest item of billed expenses was incurred; the date on which the last work was performed

or the last item of billed expenses was incurred; and the location where the records and accounts billed can be audited. Adequate reference shall be made in the billing to the **SFRTA's** records, accounts, and other relevant documents. All cost records and accounts shall be subject to audit by a representative of the **DEPARTMENT**. Upon receipt of invoices, prepared in accordance with the above reimbursement provisions, the **DEPARTMENT** agrees to reimburse the **SFRTA** in the amount of such actual costs approved by the **DEPARTMENT's** auditor.

10. In accordance with Section 215.422 Florida Statutes, the following provisions are in this Agreement:

Contractors providing goods and services to the **DEPARTMENT** should be aware of the following time frames. Upon receipt, the **DEPARTMENT** has five (5) working days to inspect and approve the goods and services, unless the Agreement specifies otherwise. The **DEPARTMENT** has twenty (20) working days to deliver a request for payment (voucher) to the Department of Banking and Finance. The twenty (20) days are measured from the latter of the date the invoice is received or the date the goods or services are received, inspected, and approved.

If a payment is not available, within forty (40) days, a separate interest penalty at a rate as established pursuant to Section 215.422 (3)(b), Florida Statutes, will be due and payable in addition to the invoice amount, to the Contractor. Interest penalties of less than one (1) dollar will not be enforced unless the Contractor requests payment. Invoices, which have to be returned to a Contractor because of Contractor preparation errors, will result in a delay in the payment. The invoice payment requirements do not start until a properly completed invoice is provided to the **DEPARTMENT**.

A Vendor Ombudsman has been established within the Department of Bank and Finance. The duties of the individual include acting as an advocate for contractors/vendors who may be experiencing problems in obtaining timely payment(s) from a state agency. The Vendor Ombudsman may be contacted at (850) 413-5516, or by calling the Division of Consumer Services at 1-877-693-5236.

11. Payment shall be made only after receipt and approval of goods and services unless advance payments are authorized by the **DEPARTMENT's** Comptroller under Section 334.44(29), F.S., or by the Department of Financial Services under Section 215.422(14), F.S.
12. In accordance with Section 287.058 F.S., the following provisions are in this Agreement: If this contract involves units of deliverables, then such units must be received and accepted in writing

by the Contract Manager prior to payments. Bills for fees or other compensation for services or expenses shall be submitted in detail sufficient for a proper pre-audit and post-audit thereof.

13. Bills for travel expenses specifically authorized in this Agreement shall be submitted and paid in accordance with **DEPARTMENT** Rule 14-57.011, Florida Administrative Code, and the Federal Highway Administration Federal Aid Policy Guide, 23 C.F.R. Subchapter B, Part 140, Subpart I "Reimbursement for Railroad Work."
14. In the event this contract is for services in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and a term of more than one year, the provisions of Section 339.135 (6)(a), Florida Statutes are hereby incorporated;

The **DEPARTMENT's** obligation to pay under this contract is contingent upon an annual appropriation by the Florida Legislature in accordance with Section 287.0582, Florida Statutes.

The **DEPARTMENT** during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditures of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that such funds are available prior to the entering into any such contract or other binding commitment of funds.

Nothing herein contained shall prevent the making of contracts for periods, exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years, and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

15. In accordance with Section 287.133 (2)(a), Florida Statutes, the following provisions are included in this Agreement:

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids, proposals, or replies on leases for real property to a public entity; may not be awarded or perform

work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in section 287.017 for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

16. In accordance with Section 287.134(2)(a), Florida Statutes, the following provisions are included in this agreement:

An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity.

These paragraphs are applicable to any type of work specified (paragraph 1(a), 1(b), or 1(c)):

17. The cost of maintaining all signals at the crossing shall be allocated as follows; fifty percent (50%) of the expense thereof in maintaining the same shall be borne by the **COUNTY**, and fifty percent (50%) of the cost shall be borne by the **SFRTA**, as enumerated by the Schedule of Annual Cost of Automatic Highway Grade Crossing Traffic Control Devices attached hereto and by this reference made a part hereof and subject to future revision. Actual funding for the signals has been provided for in the Operating Agreement. **COUNTY** shall submit its 50% of the cost of the Annual Maintenance costs to the **DEPARTMENT**. In instances where signals are installed and/or adjusted pursuant to this Agreement and found to be in satisfactory working order by the parties hereto, the same shall be immediately put in service, operated and maintained by the **SFRTA** pursuant to the Operating Agreement and the SFOMA Agreement so long as **SFRTA** or successors or assigns shall operate the said signals at said grade crossing; or until it is agreed between the parties hereto that the signals are no longer necessary; or until the said crossing is abandoned; or legal requirements occur which shall cease operation of those signals. The **SFRTA** agrees that any future relocation or adjustment of said signals shall be performed by the **SFRTA**, but at the expense of the party initiating such relocation. Upon relocation, the maintenance responsibility shall be in accordance with the provisions of this Agreement. It is further agreed that the cost of maintaining any additional or replacement signal equipment at the same location will be shared as provided above.

18. Unless otherwise agreed upon herein, the **COUNTY** agrees to ensure that the advance warning signs and railroad crossing pavement markings will conform to the Department of Transportation Manual on Uniform Traffic Control Devices (MUTCD) within 30 days of notification that the railroad signal improvements have been completed and that such signs and pavement markings will be continually maintained in conformance with the MUTCD as applicable.
19. The **DEPARTMENT** at its discretion, may arrange for the synchronization of the railroad crossing devices with existing or proposed highway traffic control devices at **Ali Baba Ave. and/or Burlington St.** Neither of the parties shall disconnect the interconnection circuit or change or cause to be changed the signal sequence without prior notice to the other parties. Each party shall maintain its respective devices from the point of the junction box as provided for the interconnect cable.
20. All work contemplated at this crossing shall at all times be subject to the approvals, obligations, and notice provisions pursuant to the Operating Agreement and the SFOMA Agreement.
21. All contractors working in the SFRC are required to have Railroad Protective Public Liability and Railroad Protective Property Damage Liability insurance where the **DEPARTMENT**, **SFRTA**, and **CSXT** are named insureds, and with limits not less than **\$ 2,000,000.00** combined single limit for bodily injury and/or property damage per occurrence and with an annual aggregate limit of no less than **\$ 6,000,000.00** Contractor will furnish the **DEPARTMENT** and **SFRTA** a Certificate of Insurance showing that the contractor carries liability insurance (applicable to the job in question) in the amounts set forth above. Such insurance is to conform with the requirements of the U.S. Department of Transportation, Federal Highway Administration, Federal Aid Policy Guide, Subchapter G, Part 646, Subpart A, and any supplements thereto or revisions thereof.
22. **SFRTA** hereby agrees, as applicable, to install and/or adjust the necessary parts of the SFRC facilities in accordance with the provisions set forth in the:

☐ (A) **DEPARTMENT** Procedure 725-080-002 Appendix D.4 and Rule 14-57.011 "Public Railroad-Highway Grade Crossing Costs", Florida Administrative Code,

☒ (B) Federal Highway Administration's Federal Aid-Highway Policy Guide,

23 C.F.R. Subchapter B, Part 140, Subpart I; and 23 C.F.R. Subchapter G.
Part 646, Subpart B,

and any supplements thereto or revisions thereof, which, by reference hereto, are made a part hereof. **SFRTA** further agrees to do all such work with its own forces or by a contractor paid under a contract held by **SFRTA** under the supervision and approval of the **DEPARTMENT**, and the Federal Highway Administration, when applicable.

23. Attached hereto, and by this reference made a part hereof, are plans and specifications of the work to be performed by **SFRTA** pursuant to the terms hereof, and an estimate of the costs thereof in the amount of \$47,153.00. All work performed by the **SFRTA** pursuant hereto, shall be performed according to these plans and specifications as approved by the **DEPARTMENT**, and the Federal Highway Administration, if federal aid participating; and all subsequent plan changes shall likewise be approved by the **DEPARTMENT** and the Federal Highway Administration, when applicable.
24. The **DEPARTMENT** has determined that the method to be used by the **SFRTA** in developing future relocation or installation cost shall be actual and related indirect costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.
25. The **DEPARTMENT** reserves the right to unilaterally cancel this agreement for refusal by the **COUNTY** or **SFRTA** to allow public access to all documents, or other material subject to the provisions of Chapter 119, Florida Statutes.
26. ~~Should the use of said crossing be abandoned due to removal of the roadway then all rights hereby granted to the **COUNTY** shall thereupon cease and terminate and the **COUNTY** will, at its sole cost and in a manner satisfactory to the **SFRTA** and the **DEPARTMENT**, remove said crossing and restore the **SFRC** property to the condition previously found, provided that the **SFRTA** may, at its option, remove the said crossing and restore its property, and the **COUNTY** will, in such event, upon bill rendered, pay to the **SFRTA** the entire cost incurred by it in such removal and restoration.~~ 
27. Upon execution, this Agreement shall supersede all provisions, relating to said crossing contained in any previous agreements and shall become the permanent agreement of record.

28. The parties shall:
1. Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the parties during the term of the contract; and
 2. Expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
29. It is understood and agreed by the parties to this Agreement that if any part, term, or provision of this Agreement is held illegal by the courts or in conflict with any law of the State of Florida, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provision held to be invalid.
30. Any questions or matters arising under this Agreement as to validity, construction, enforcement, performance, or otherwise, shall be determined in accordance with the laws of the State of Florida. Venue for any action arising out of or in any way related to this Agreement shall lie exclusively in a state court of appropriate jurisdiction.
31. The parties agree to bear their own attorney's fees and costs with respect to this Agreement.
32. The parties agree that this Agreement is binding on the parties and their assigns and successors in interest as evidenced by their signatures and lawful executions below.
33. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.
34. If the Operating Agreement between the **DEPARTMENT** and the **SFRTA** ceases to exist, the responsibilities of **SFRTA** may be assigned to a party operating the railroad.

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SLA

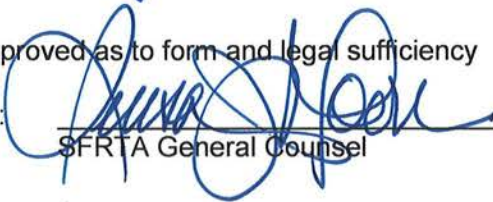
IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective and duly authorized officers the day and year first written above.

SFRTA

South Florida Regional Transportation Authority, A body politic and corporate and an agency of the State of Florida

By: 
SFRTA Executive Director

Date: May 28, 2019

Approved as to form and legal sufficiency
By: 
SFRTA General Counsel

DEPARTMENT

State of Florida, Department of Transportation,
An Agency of the State of Florida

By: _____
Director of Transportation Development

Date: _____

Legal Review (DEPARTMENT):

By: _____

COUNTY

Attest:

CLERK & COMPTROLLER

By: _____
Deputy Clerk

**APPROVED AS TO FORM
AND LEGAL SUFFICIENCY**

By: _____
County Attorney

**MIAMI-DADE COUNTY
BOARD OF COUNTY COMMISSIONERS**

By: _____
Mayor: _____

Date: _____

**APPROVED AS TO TERMS
AND CONDITIONS**

By: _____
Department Director

To: Ana.Quero@dot.state.fl.us

**FLORIDA DEPARTMENT OF TRANSPORTATION
FUNDS APPROVAL**

AS825

11/27/2017

CONTRACT INFORMATION

Contract:	AS825
Contract Type:	AD - RR CROSSING-MAINT (RR-XING/MT)
Method of Procurement:	R - RAILROAD/UTILITIES AGREEMENT
Vendor Name:	SOUTH FLORIDA REGIONAL TRANSPOR
Vendor ID:	F650002789001
Beginning Date of This Agreement:	11/22/2017
Ending Date of This Agreement:	12/31/2023
Contract Total/Budgetary Ceiling:	ct = \$47,153.00
Description:	Signal Safety Improvements at RRxing 628323J located on Opa-Locka Blvd

FUNDS APPROVAL INFORMATION

FUNDS APPROVED/REVIEWED FOR ROBIN M. NAITOVE, CPA, COMPTROLLER ON 11/27/2017

Action:	Original
Reviewed or Approved:	APPROVED
Organization Code:	55062020629
Expansion Option:	A1
Object Code:	134000
Amount:	\$47,153.00
Financial Project:	44047215701
Work Activity (FCT):	127
CFDA:	
Fiscal Year:	2018
Budget Entity:	55100100
Category/Category Year:	088808/18
Amendment ID:	O001
Sequence:	00
User Assigned ID:	
Enc Line (6s)/Status:	0001/04

Total Amount: \$47,153.00

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WORK DESCRIPTION
GRADE CROSSING TRAFFIC CONTROL DEVICES

725-090-09
RAIL
05/02

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
44047215701	OPA-LOCKA BLVD.	MIAMI-DADE	1(SIG-Q)	D617 071 B

RAILROAD COMPANY

South Florida Regional Transportation Authority

- A. JOB DESCRIPTION & LOCATION: 10 Sets of LEDs, 3 New CWT, 2 new bells
- B. TYPE OF ROADWAY FACILITY: Two-Way Street - 2 Thru Lanes - Urban Local Access
- C. FDOT/AAR XING NO.: 628323J RR MILE POST TIE: SX 1029.88
- D. TYPE CROSSING PROPOSED: IV CLASS: VI DOT INDEX NO.: 17882
- E. STATUS AND PROPOSAL:
1. EXISTING DEVICES: (See Agreement dated _____)
 - a. ☐ None-New Crossing.
 - b. ☐ Crossbuck and Disk.
 - c. ☐ Flashing Signals with Disk.
 - d. ☐ Flashing Signals with Cantilever.
 - e. ☐ Flashing Signals with Gates.
 - f. ☒ Flashing Signals with Cantilever and Gates.
 2. PROPOSED DEVICES: (Safety Index Rating 455)
 - a. ☐ No revision required.
 - b. ☐ Crossbuck and Disk.
 - c. ☐ Flashing Signals and Disk.
 - d. ☐ Flashing Signals with Cantilever.
 - e. ☐ Flashing Signals with Gates.
 - f. ☒ Flashing Signals with Cantilever and Gates.
 - g. ☐ Relocate existing signal devices:
 - (1) ☐ (With-Without) addition of Gates.
 - (2) ☐ (With-Without) synchronization with highway traffic signals.
 - (3) ☐ (With-Without) constant warning time.
- F. COMMUNICATION AND/OR POWER LINE ADJUSTMENTS
1. ☐ By Others (_____ Company.)
 2. ☐ By Railroad Company.
- G. AUTHORITY REQUESTED: (Draft attached: ☐ Yes ☒ No.)
1. ☒ Agreement (Third Party Participating Miami-Dade County, SFRTA and FDOT)
 2. ☐ Supplemental Agreement No. _____
 3. ☐ Crossing Permit.
 4. ☐ Estimate for Change Order No. _____
 5. ☐ Letter of Authority.
 6. ☐ Letter of Confirmation (No Cost to Department).
- H. OTHER REMARKS:

Negotiations to be completed by:

Signal installation target date:

Synchronization: (Draft attached ☐ Yes ☒ No.)

Archived: Monday, September 26, 2016 4:29:42 PM
From: Allbritton, Scott
Sent: Monday, September 26, 2016 10:01:29 AM
To: Hartmann, Hector; Hurtado, Javier
Subject: D6 FY 2018 Program 53 Allocation
Importance: Normal

District Six's Fiscal Year 2018 Program 53 allocation is:

SFRTA	628322C	Codadad Street	7 Sets of LEDs, New CWT, 2 recorders, 2 new bells	123,164	RHP
SFRTA	628323J	Opa Locka Boulevard	10 Sets of LEDs, 3 New CWT, 2 new bells	47,153	RHP
SFRTA	628339F	SR 934/NW 79th Street	New Cabinet, 2 new FL&G (EB), 2 CWT, recorder, 3 bells	167,716	RHP
SFRTA	628340A	E 17th Street/NW 71st Street	2new foundations to relocate entrance gates, 6 sets of LEDs, 3 New CWT, 2 new bells, cable.	51,839	RHP

Total = 389,871

Scott.Allbritton@dot.state.fl.us 850.414.4553
Railroad Crossing Safety Programs
Freight Logistic and Passenger Operations
Florida Department of Transportation

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
**RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES
ANNUAL MAINTENANCE COSTS**

725-090-41
RAIL
OGC - 07/16

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
44047215701	Opa-Locka Blvd.	MIAMI-DADE	1(SIG-Q)	D617 071 B

COMPANY NAME: South Florida Regional Transportation Authority

A. FDOT/AAR XING NO.: 628323J RR MILE POST TIE: SX 1029.88

B. TYPE SIGNALS PROPOSED IV CLASS VI DOT INDEX: 17882

**SCHEDULE OF ANNUAL COST OF AUTOMATIC
HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES**

Annual Maintenance Cost Exclusive of Installation

<u>CLASS</u>	<u>DESCRIPTION</u>	<u>COST*</u>
I	2-Quadrant Flashing Lights with One Track	\$2,386.00
II	2-Quadrant Flashing Lights with Multiple Tracks	\$3,158.00
III	2-Quadrant Flashing Lights and Gates with One Track	\$3,600.00
IV	2-Quadrant Flashing Lights and Gates with Multiple Tracks	\$4,520.00
V	3 or 4-Quadrant Flashing Lights and Gates with One Track	\$7,116.00
VI	3 or 4-Quadrant Flashing Lights and Gates with Multiple Tracks	\$8,930.00

AUTHORITY: FLORIDA ADMINISTRATIVE RULE 14-57.011
Public Railroad-Highway Grade Crossing Costs

EFFECTIVE DATE: July 22, 1982

GENERAL AUTHORITY: 334.044, F.S.

SPECIFIC LAW IMPLEMENTED: 335.141, F.S.

*This schedule will become effective July 1, 2016 and will be reviewed every 5 years and revised as appropriate based on the Consumer Price Index for all Urban Consumers published by the U.S. Department of Labor.



LOCATION MAP

South Florida Regional Transportation Authority (SFRTA)

LOCATION:	Opa-Locka BLVD., Miami-Dade County
FINANCIAL PROJECT NO.:	440472-1-57-01
CROSSING NO.:	628323J
RAILROAD MILEPOST:	SX 1029.88



CONTRACT AMENDMENT NO.

Contract No. 14-012
Amendment No. TBD
Project: Maintenance of Way ("MOW") Services
Contractor: VTMI
Contractor Ref No.: 067

The following changes are hereby authorized to be performed by the Contractor, for the stipulated cost and/or time extension herein, upon the signatures below by SFRTA.

Description of Changes, Reasons Therefore, and Cost and/or Time Extension for Each:

SFRTA requires the services of VTMI to perform signal safety upgrades to the grade crossing on Opa-Locka Blvd in Miami Dade County which have been requested by FDOT and the City of Opa-Locka. VTMI shall provide all necessary labor, equipment, materials, hardware design, construction, and in-services testing for the following signal safety upgrades to grade crossing (628323J) Opa-Locka Blvd:

1. Install 6 ea. Complete LED One-Way Assemblies
2. Install 2 ea. Complete LED Two-Way Assemblies
3. Install 2 ea. Siemens Electronic Bells
4. Design and AIS

Change:

- A. VTMI shall perform a survey of the jobsite
- B. VTMI shall procure all materials necessary for the installation of the signal safety upgrades and shall deliver all material to the jobsite.
- C. VTMI shall remove and dispose of and/or salvage the existing upgraded signal material.

Reason for change: FDOT has requested SFRTA have this work performed.

Cost of Change: Total - \$47,152.61

Time Extension for change: N/A - Within Contract Timeframe

TOTAL **\$47,152.61**

The following changes are hereby authorized to be performed by the Contractor, for the stipulated cost and/or time extension herein, upon the signature below by the representatives of SFRTA.

It is agreed that this Amendment shall not alter or change in any manner the force and effect of the Contract Documents, including any previous amendments thereto, except insofar as the same is altered and amended by this Amendment.

SFRTA and the Contractor agree that the Contract time adjustment and the sum agreed to in this Amendment constitutes a full and complete settlement of all the matters set forth herein, including all direct cost for equipment, manpower, materials, overhead, profit, and delay relating to the issues set forth in the Amendment. Furthermore, the Contractor accepts the terms of this Amendment as related to cost determinations as full compensation for all costs of equipment, manpower, materials, overhead, profit and delay damages and for all their costs. This settlement is limited to and applies to any claims arising out of or on account of the matters described and set forth in this Amendment.

Accepted by Procurement:

Signature: _____
Name and Title: _____
Date: _____

Accepted by Contractor:

Signature: 
Name and Title: VP & GM
Date: _____

Approved as to form and legal sufficiency:

Signature: _____
Name and Title: _____
Date: _____

Accepted by Project Manager:

Signature: _____
Name and Title: _____
Date: _____

Approved by SFRTA Executive Director:

Signature: _____
Name and Title: _____
Date: _____



Estimated Cost for Extra Work #067

Opa-Locka Blvd Signal Safety Upgrades X-ing 628323J



Extra Work	067
Name	Opa-Locka Blvd Signal Safety Upgrades X
Date	8/24/2016

Estimator Name	Brian Goss
Estimator E-mail	marcus.goss@transdev.com
Estimator Phone	(770) 480 3120

1. Scope of Work

Supply the necessary hardware design, materials, construction, and in-service testing for the following:
Replacement of eight existing sets of incandescent signal lights with LED signal lights; 6 one-way and 2 two-way
Installation of two Siemens electronic bells
Design and As-In-Service Prints

Prices may not be valid after 60 days

Total Cost: \$ 47,152.61



Estimated Cost for Extra Work #067

Opa-Locka Blvd Signal Safety Upgrades X-ing 628323J



2. Cost:

A. Management

I. Labor

Position	Work Hours	FBLC Hourly Rate	Labor Bid Total
Facility Manager	-	46.78	-
Office Manager	-	41.30	-
Materials Manager	-	70.48	-
RMIS Technician	-	30.36	-
Safety Manager	-	89.19	-
General Manager	-	107.06	-
Roadmaster	-	65.51	-
Signal Manager	-	65.51	-
Sr. Manager Comm. & Sig.	-	94.01	-
Signal Manager	-	63.11	-
Communications Manager	-	63.11	-
Project Manager	-	-	-
	-	-	-
Management Labor Total			-

II. Vehicle

Description	Hours	Equip. Rate	Equip. Bid Total
Pick-up F150	-	16.80	-
SUV	-	13.23	-
	-	-	-
	-	-	-
Management Equipment Total			-

Estimated Cost for Extra Work #067

Opa-Locka Blvd Signal Safety Upgrades X-ing 628323J



B. Track Costs

I. Labor

Position	WK HRS RE	WK HRS OT	HRLY RATE RE	HRLY RATE OT	RE TOTAL COST	OT TOTAL COST	TOTAL
RR Track Welder Helper	-	-	44.32	59.18	-	-	-
RR Track Foreman	-	-	51.41	70.24	-	-	-
Tamper Operator	-	-	52.83	71.96	-	-	-
Flagman	-	33.00	41.45	54.88	-	1,811.03	1,811.03
Track Inspector	-	-	51.41	70.24	-	-	-
RR Equipment Operator II	-	-	48.56	65.96	-	-	-
RR Equipment Operator I	-	-	47.40	64.22	-	-	-
Track Laborer/Trackman	-	-	43.35	58.16	-	-	-
RR Welder	-	-	48.50	65.87	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

Track Labor Total	1,811.03
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II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
F350 Hi-rail	-	\$ 32.17	-
Prentice	-	\$ 164.87	-
Backhoe	-	\$ 62.34	-
Loader 966 CAT	-	\$ 124.41	-
Speed swing	-	\$ 85.30	-
Swivel Dump Hi-Rail	-	82.85	-
Welding Van	-	\$ 115.24	-
Light tower	-	\$ 15.14	-
Pup tamper	-	\$ 210.87	-
Air Compressor	-	8.71	-
Hi-Rail crew cap	-	\$ 32.17	-
Tamper Mark 4	-	305.00	-
Dynamic Stabilizer	-	163.33	-
Regulator	-	\$ 176.20	-
Hi-Rail Section truck	-	\$ 113.67	-
Gradall	-	64.35	-
Tilt trailer	-	\$ 8.00	-
Dump truck	-	\$ 104.92	-
Pick-up 150	33.00	\$ 18.44	608.52
	-		

Track Equipment Total	608.52
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III. Materials

[illegible]

Track Materials Total	-
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C. Signal

I. Labor

Position	WK HRS RE	WK HRS	HRLY RATE	HRLY RATE	RE TOTAL	OT TOTAL	TOTAL
Signal Maintainer	-	60.00	52.59	72.01	-	4,320.60	4,320.60
Signal Inspector/Comm Tech	-	30.00	63.80	88.82	-	2,664.60	2,664.60
Signalman	-	-	52.59	72.01	-	-	-
Signal Foreman	-	30.00	58.78	81.41	-	2,442.30	2,442.30
	-	-	-	-	-	-	-
Signal Labor Total							9,427.50

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Signal truck	40.00	\$ 22.07	882.80
Signal Hi-Rail vehicle	30.00	\$ 33.48	1,004.40
Hi-Rail boom truck	-	\$ 137.61	-
Bucket Truck	20.00	\$ 54.48	1,089.60
Pick-up 150	30.00	\$ 18.44	553.20
	-	-	-
	-	-	-
	-	-	-
Signal Equipment Total			3,530.00

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
S-60 Gate Assembly		EA	14,208.00		-
Foundation for S-60 Gate Assembly		EA	450.00		-
NAS MDA II DTMF Package (Radio Keydown/event recorder)		EA	3,450.00		-
Antenna Kit		EA	50.00		-
LED Crossing Signal One-Way (Gate)	4.00	EA	2,306.00		9,224.00
LED Crossing Signal One-Way (Main Mast)	2.00	EA	2,306.00		4,612.00
LED Crossing Signal One-Way (Arm)		EA	2,269.00		-
LED Crossing Signal One-Way (Main Mast Sidelight)		EA	2,355.00		-
LED Crossing Signal Two-Way (Main Mast)			3,123.00		-
LED Crossing Signal Two-Way (Arm)	2.00		3,123.00		6,246.00
CWT XP-4			29,184.00		-
MDAS surge arrester			653.00		-
Siemens Electronic Bell	2.00		489.00		978.00
Crossing Warning Indicator			1,382.74		-
Signal Materials Total					21,060.00

D. Structures Department

I. Labor

Position	WK HRS RE	WK HRS OT	HRLY RATE RE	HRLY RATE OT	RE TOTAL COST	OT TOTAL COST	TOTAL
Bridge Foreman	-	-	46.70	62.75	-	-	-
Bridge Tender	-	-	45.38	61.20	-	-	-
Bridge Laborer	-	-	42.40	56.31	-	-	-
	-	-	-	-	-	-	-

Structures Labor Total -

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Utility Van	-	15.00	-
Pick-up 150	-	11.00	-
	-	-	-

Structures Equipment Total -

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
					-
					-
					-
					-
					-
					-
					-

Structures Materials Total -

E. Facility

I. Labor

Position	WK HRS RE	WK HRS OT	HRLY RATE RE	HRLY RATE OT	RE TOTAL COST	OT TOTAL COST	TOTAL
Janitor	-	-	35.76	46.34	-	-	-
Carpenter	-	-	39.17	51.46	-	-	-
Electrician	-	-	42.59	56.59	-	-	-
Painter	-	-	35.76	46.34	-	-	-
	-	-	-	-	-	-	-
Facility Labor Total							-

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Transit Van	-	55.00	-
Paint Sprayer	-	14.00	-
Pick-up 150	-	11.00	-
	-	-	-
Facility Equipment Total			-

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
					-
					-
					-
					-
					-
					-
					-
Facility Materials Total					-



Estimated Cost for Extra Work #067

Opa-Locka Blvd Signal Safety Upgrades X-ing 628323J



F. Sub-Contractors

Name	Description	Price Per	UOM	Unit Price	Sub. Bid Total
Xorail	Design & as-in-service	1.00	LS	5,000.00	5,000.00
					-
					-
					-
					-
					-
					-
Sub-Contractors Total					5,000.00

G. Mobilization & Demobilization

Type	Detail	Bid Total
Mobe/Demobe Total		-

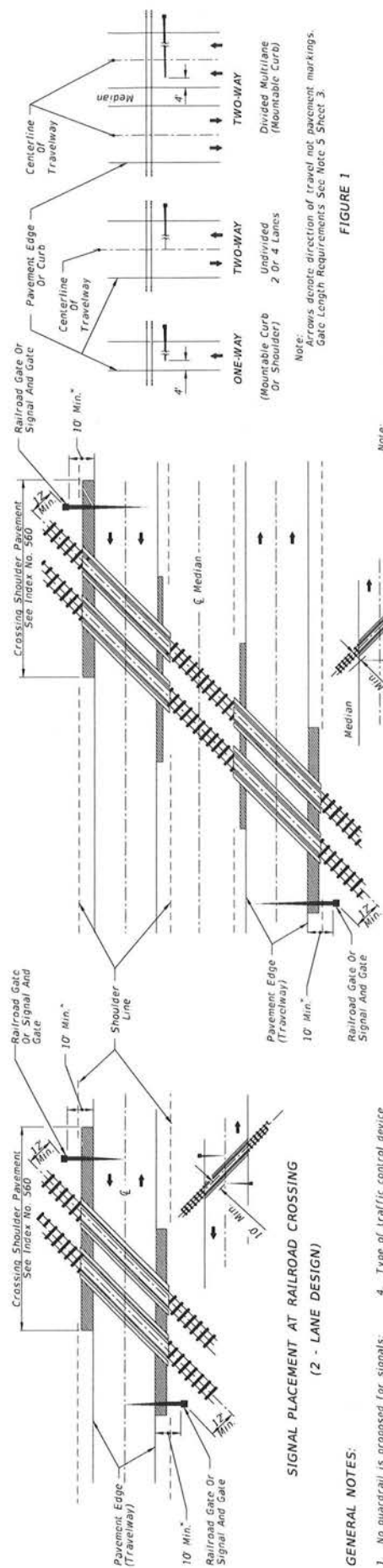
H. Miscellaneous

Description	Cost
Miscellaneous Total	-

3. Summary

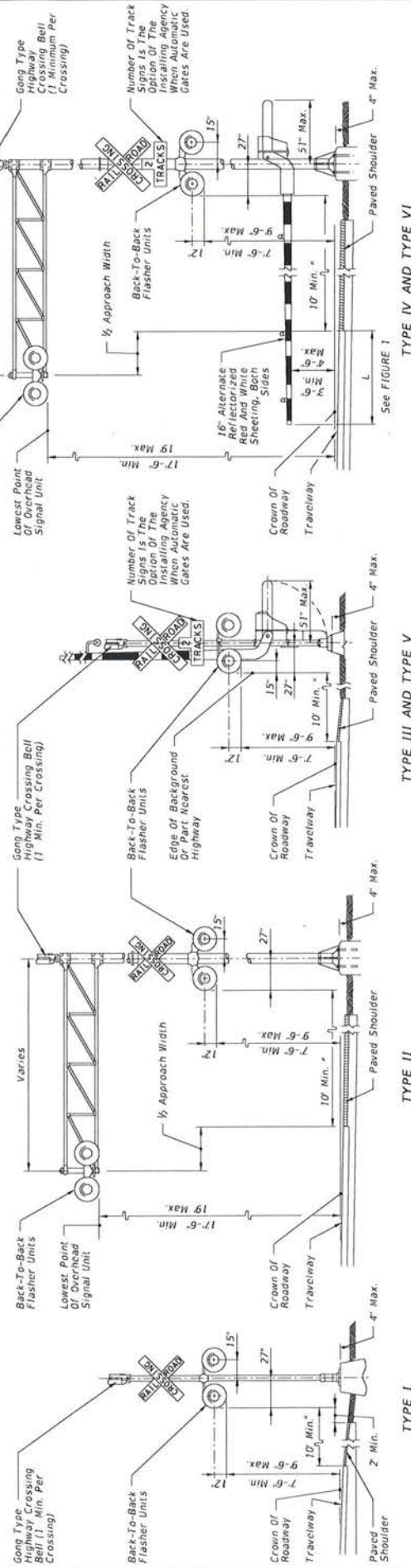
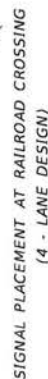
Type	Cost
Total Labor	11,238.53
Total Equipment	4,138.52
Total Materials	21,060.00
Total Mobilization	-
Total Miscellaneous	-
Subtotal	36,437.05
15% Markup	5,465.56
Total	\$ 41,902.61

Sub Contractor Total	5,000.00
5% Markup	250.00
Total	5,250.00
Grand Total	47,152.61

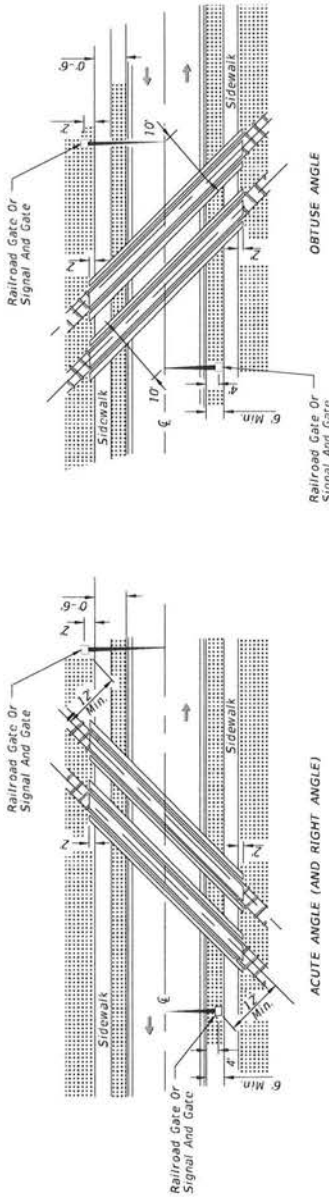


Note: Two separate foundations may be required (one for signals, one for gate), depending on type of equipment used.

* When 10' is deemed impracticable the control device can be located as close as 2' from the edge of a paved shoulder but not less than 6' from the edge of the near traffic lane.



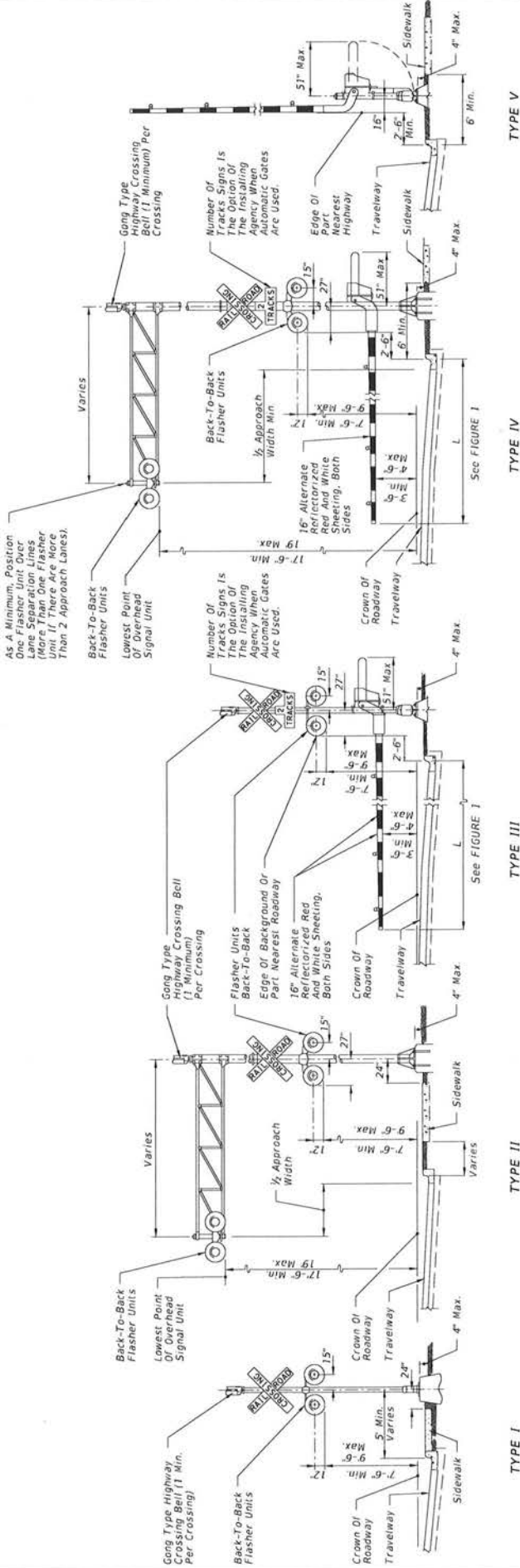
LAST REVISION 11/07/16	DESCRIPTION: REVISION	 FY 2017-18 DESIGN STANDARDS	RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES	INDEX NO. 17882	SHEET NO. 1 of 4
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ACUTE ANGLE (AND RIGHT ANGLE)
SIGNAL PLACEMENT AT RAILROAD CROSSING
(2 LANES, CURB & GUTTER)

OBTUSE ANGLE
SIGNAL PLACEMENT AT RAILROAD CROSSING
(2 LANES, CURB & GUTTER)

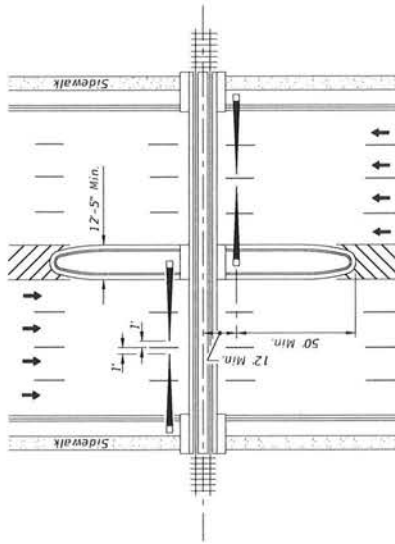
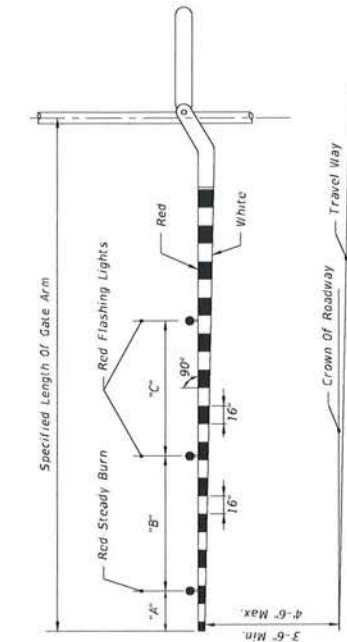
- NOTES:**
1. The location of flashing warning devices and stop lines shall be established based on future (or present) installation of gate with appropriate track clearances.
 2. Where plans call for railroad traffic control devices to be installed in curbed medians, the minimum median width shall be 12'-6".
 3. Location of railroad traffic control device is based on the distance available between face of curb & sidewalk, 0' to 6' - Locate device outside sidewalk. Over 6' - Locate device between face of curb and sidewalk.
 4. Stop line to be perpendicular to edge of roadway, approx. 15' from nearest rail; or 8' from and parallel to gate when present.
 5. When a controlled-arm flashing warning device is used, the device shall be located at the lowest point of the overhead signal unit.



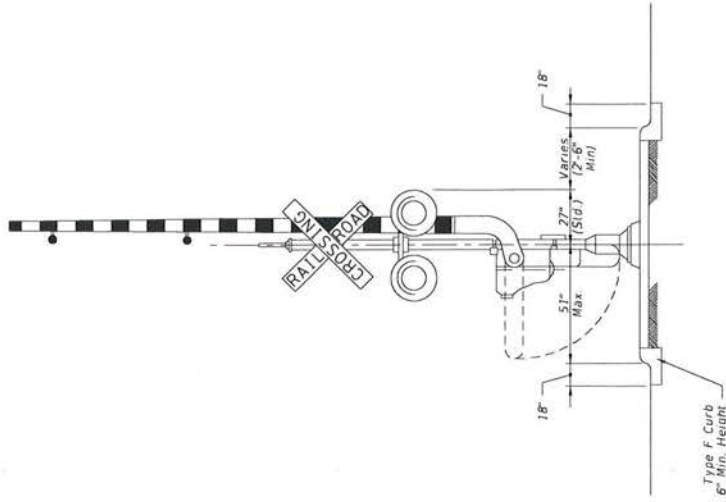
TRAFFIC CONTROL DEVICES FOR CRUBED ROADWAY

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2017-18	DESIGN STANDARDS	INDEX NO.	SHEET NO.
II/07/16						17882	2 of 4

RAILROAD GRADE CROSSING
TRAFFIC CONTROL DEVICES



PLAN



MEDIAN SECTION AT SIGNAL GATES

NOTE:
For additional information see the "Manual On Uniform Traffic Control Devices", Part 8; The "Traffic Control Handbook", Part VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways".

RAILROAD GATE ARM LIGHT SPACING

Specified Length Of Gate Arm	Dimension "A"	Dimension "B"	Dimension "C"
14 Ft.	6"	36"	5'
15 Ft.	18"	36"	5'
16-17 Ft.	24"	36"	5'
18-19 Ft.	28"	41"	5'
20-23 Ft.	28"	4'	5'
24-28 Ft.	28"	5'	5'
29-31 Ft.	36"	6'	6'
32-34 Ft.	36"	7'	7'
35-37 Ft.	36"	9'	9'
38 And Over	36"	10'	10'

MEDIAN SIGNAL GATES FOR
MULTILANE UNDIVIDED URBAN SECTIONS
(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)

LAST
REVISION
01/01/12

FDOT
FY 2017-18
DESIGN STANDARDS

RAILROAD GRADE CROSSING
TRAFFIC CONTROL DEVICES

INDEX
NO.
17882

SHEET
NO.
4 of 4