

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
**RAILROAD REIMBURSEMENT AGREEMENT**  
**GRADE CROSSING TRAFFIC CONTROL DEVICES - MUNICIPAL**

725-090-27  
 RAIL  
 OGC - 04/12

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
43143815701	S.W. 9th STREET	BROWARD	1(86900-SIG)	00S4-049

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and FLORIDA EAST COAST RAILWAY L.L.C., a corporation organized and existing under the laws of FLORIDA, with its principal place of business in the City of JACKSONVILLE, County of DUVAL, State of FLORIDA, hereinafter called the COMPANY; and the City of FORT LAUDERDALE, a municipal corporation, hereinafter called the CITY.

WITNESSETH:

WHEREAS, the DEPARTMENT is constructing, reconstructing or otherwise changing a portion of the Public Road System, designated by the Financial Project ID 43143815701, on S.W. 9th STREET, which crosses at grade the right of way and tracks of the COMPANY'S Milepost 341 + 4,223', FDOT/AAR Crossing Number 272561-N, at or near S.W. 9TH STREET, as shown on DEPARTMENT'S Plan Sheet No. LOCATION MAP, attached hereto as a part hereof; and

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

1. The COMPANY shall furnish the necessary materials and install Automatic Grade Crossing Signals Type III Class IV and/or other traffic control devices at said location on an actual cost basis and in accordance with (1) the attached detailed statement of the work, plans, and specifications; and (2) the DEPARTMENT'S Plans and Standard Index Number 17882 attached hereto and made a part hereof.
2. After installation of said signals is completed, fifty (50%) percent of the expense thereof in maintaining the same shall be borne by the CITY and fifty (50%) percent shall be borne by the COMPANY, as enumerated by the Schedule of Annual Cost of Automatic Highway Grade Crossing Devices attached hereto and by this reference made a part hereof and subject to future revision.
3. After said signals have been installed and found to be in satisfactory working order by the parties hereto, the same shall be immediately put into service, operated and maintained by the COMPANY so long as said COMPANY or its 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 signals thereat.

The COMPANY agrees that any future relocation or adjustment of said signals shall be performed by the COMPANY, but at the expense of the party initiating such relocation. Upon relocation the maintenance responsibilities 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 under Paragraph 2. above.

4. Unless otherwise agreed upon herein, the CITY agrees to ensure that at the crossing the advance warning signs and railroad crossing pavement markings will conform to the U.S. Department of Transportation Manual on Uniform Traffic Control Devices within 30 days of notification that the railroad signal improvements have been completed and that such signs and pavement markings will be continually maintained at an acceptable level.

5. The COMPANY hereby agrees to install and/or adjust the necessary parts of its facilities along said road in accordance with the provisions set forth in the:

- (a) DEPARTMENT Procedure No. 725-080-002 Appendix D.4, and Rule 14.57.011 "Public Railroad-Highway Grade Crossing Costs", Florida Administrative Code.
- (b) Federal Highway Administration Federal-Aid Policy Guide, 23 C.F.R. Subchapter G, Part 646, Subpart B, and 23 C.F.R., Subchapter B, Part 140, Subpart I,

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

6. The DEPARTMENT hereby agrees to reimburse the COMPANY for all costs incurred by it in the installation and/or adjustment of said facilities, in accordance with the provisions of Procedure No. 725-080-002 Appendix D-4 "Billing Requirements," and any supplements thereto or revisions thereof. It is understood and agreed by and between the parties hereto that preliminary engineering costs not incorporated within this agreement shall not be subject to payment by the DEPARTMENT.

7. Attached hereto, and by this reference made a part hereof, are plans and specifications of the work to be performed by the COMPANY pursuant to the terms hereof, and an itemized estimate of the cost thereof in the amount of \$ 234,650.00. All work performed by the COMPANY 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.

8. All labor, services, materials, and equipment furnished by the COMPANY in carrying out the work to be performed hereunder shall be billed by the COMPANY direct to the DEPARTMENT. Separate records as to the costs of

contract bid items and force account items performed for the COMPANY shall also be furnished by the COMPANY to the DEPARTMENT.

9. The COMPANY has determined that the method to be used in developing the relocation or installation cost shall be as specified for the method checked and described hereafter:

- (a) Actual and related indirect costs accumulated in accordance with a work order accounting procedure prescribed by the applicable Federal or State regulatory body.
- (b) Actual and related indirect costs accumulated in accordance with an established accounting procedure developed by the COMPANY and approved by the DEPARTMENT.
- (c) An agreed lump sum \$ \_\_\_\_\_, as supported by a detail analysis of estimated cost attached hereto. (NOTE: This method is not applicable where the estimated cost of the proposed adjustment exceeds \$100,000.)

10. The installation and/or adjustment of the COMPANY'S facility as planned  will  will not involve additional work over and above the minimum reimbursable requirements of the DEPARTMENT. (If upgrading and/or nonreimbursable work is involved at the option of the COMPANY, then credit against the cost of the project is required and will be governed by the method checked and described hereafter):

- (a) \_\_\_\_\_ % will be applied to the final billing of work actually accomplished to determine required credit for (betterment) and/or (expired service life) and/or (nonreimbursable segments).
- (b) All work involving nonreimbursable segments will be performed by special COMPANY work or job order number apart and separate from the reimbursable portion of the work; such work or job order number to be \_\_\_\_\_. The COMPANY further agrees to clearly identify such additional work areas in the COMPANY'S plans and estimates for the total work covered by this Agreement.
- (c) \$ \_\_\_\_\_ credited for  betterment  expired service life  
 nonreimbursable segments in accord with Article 9.(c) hereinabove.

11. It is specifically agreed by and between the DEPARTMENT and the COMPANY that the DEPARTMENT shall receive fair and adequate credit for any salvage which shall accrue to the COMPANY as a result of the above installation and/or adjustment work.

12. It is further agreed that the cost of all improvements made during this adjustment work shall be borne by the COMPANY, subject only to the DEPARTMENT bearing such portion of this cost as represents the cost of adjustment of previously existing facility, less salvage credit as set forth in the immediately preceding paragraph.

13. Upon completion of the work the COMPANY shall, within one hundred eighty (180) days, furnish the DEPARTMENT with two (2) 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 the items contained in the estimate attached hereto. The totals for labor, overhead, travel expense, 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. Materials 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 is 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 expense was incurred; the date on which the last work was performed or the last item of billed expense was incurred; and the location where the records and accounts billed can be audited. Adequate reference shall be made in the billing to the COMPANY'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 provisions of the above indicated Reimbursement Policy, the DEPARTMENT agrees to reimburse the COMPANY in the amount of such actual costs as approved by the DEPARTMENT'S auditor.

14. 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 334.044(29), F.S., or by the Department of Financial Services under Section 215.422(14), Florida Statutes (F.S.).

15. In accordance with Section 287.058, Florida Statutes, 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 preaudit and postaudit thereof.

16. Bills for travel expenses specifically authorized in this agreement shall be submitted and paid in accordance with DEPARTMENT Rule 14-57.011 "Public Railroad-Highway Grade Crossing Costs" and the Federal Highway Administration Federal-Aid Policy Guide, Subchapter B, Part 140, Subpart I "Reimbursement for Railroad Work."

17. 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 20 days to deliver a request for payment (voucher) to the Department of Financial Services. The 20 days are measured from the latter of the date the invoice is received or the goods or services are received, inspected and approved.

If a payment is not available within 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 Financial Services. The duties of this 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.

18. Records of costs incurred under terms of this Agreement shall be maintained and made available upon request to the Department at all times during the period of this Agreement and for five years after final payment is made. Copies of these documents and records shall be furnished to the Department upon request. Records of costs incurred includes the Contractor's general accounting records and the project records, together with supporting documents and records, of the Contractor and all subcontractors performing work on the project, and all other records of the Contractor and subcontractors considered necessary by the Department for a proper audit of costs.

19. In the event this contract is for services in excess of TWENTY FIVE THOUSAND DOLLARS (\$25,000.00) and a term for a period of more than one year, the provisions of Section 339.135(6)(a), Florida Statutes, are hereby incorporated:

The Department, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure 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 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.

20. 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, 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 in excess of the threshold amount provided in s.287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted vendor list.

21. 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.

22. In accordance with Section 287.0582, Florida Statutes, the following provision is included in this Agreement:

The Department's obligation to pay under this section is contingent upon an annual appropriation by the Florida Legislature.

~~23. The COMPANY covenants and agrees that it will indemnify and hold harmless the DEPARTMENT and all of the DEPARTMENT'S officers, agents, and employees from any claim, loss, damage, cost, charge, or expense arising out of any act, action, neglect, omission or delay by the COMPANY during the performance of the contract, whether direct or indirect, and whether to any person or property to which the DEPARTMENT or said parties may be subject, except that neither the COMPANY nor any of its sub-contractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence of the DEPARTMENT or any of its officers, agents, or employees.~~

24. COMPANY 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 COMPANY 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.

25. PARAGRAPH 23 WAS STRICKEN PRIOR TO THE EXECUTION BY ALL PARTIES, AT THE REQUEST OF THE FLORIDA EAST COAST RAILWAY L. L. C.

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

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

BY: \_\_\_\_\_  
(TITLE: \_\_\_\_\_)

COMPANY: \_\_\_\_\_

BY: \_\_\_\_\_

CITY OF \_\_\_\_\_, FLORIDA

BY: \_\_\_\_\_  
(TITLE: \_\_\_\_\_)

Legal Review

Approved as to Funds  
Available

Approved as to FAPG  
Requirements

BY: \_\_\_\_\_  
Attorney - DOT                      Date

BY: \_\_\_\_\_  
Comptroller - DOT                      Date

BY: \_\_\_\_\_  
FHWA                                      Date



## CITY RESOLUTION

## GRADE CROSSING TRAFFIC CONTROL DEVICES AND FUTURE RESPONSIBILITY

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
43143815701	S.W. 9th STREET	BROWARD	1(86900-SIG)	00S4-049

A RESOLUTION AUTHORIZING EXECUTION OF A RAILROAD REIMBURSEMENT AGREEMENT FOR THE INSTALLATION OF GRADE CROSSING TRAFFIC CONTROL DEVICES, AND FUTURE MAINTENANCE AND ADJUSTMENT OF SAID DEVICES; PROVIDING FOR THE EXPENDITURE OF FUNDS; AND PROVIDING WHEN THIS RESOLUTION SHALL TAKE EFFECT.

RESOLUTION NO. \_\_\_\_\_

ON MOTION OF Commissioner (Councilman) \_\_\_\_\_,  
seconded by Commissioner (Councilman) \_\_\_\_\_, the following  
RESOLUTION was adopted:

WHEREAS, the State of Florida Department of Transportation is constructing, reconstructing or otherwise changing a portion of the Public Road System, on S. W. 9th STREET, which shall call for the installation and maintenance of railroad grade crossing traffic control devices for railroad grade crossing over or near said highway; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA;

That the City of FORT LAUDERDALE enter into a RAILROAD REIMBURSEMENT AGREEMENT with the State of Florida Department of Transportation and the FLORIDA EAST COAST RAILWAY L.L.C. Company for the installation and maintenance of certain grade crossing traffic control devices designated as Financial Project Number 43143815701 on S.W. 9th STREET which crosses the right of way and tracks of the Company at FDOT/AAR Crossing No. 272561-N located near S.W. 9TH STREET Florida; and

That the City assume it's share of the costs for future maintenance and adjustment of said grade crossing traffic control devices as designated in the RAILROAD REIMBURSEMENT AGREEMENT; and

That the Mayor and City Clerk be authorized to enter into such agreements with the State of Florida Department of Transportation; and the FLORIDA EAST COAST RAILWAY L.L.C. Company as herein described; and

That this RESOLUTION shall take effect immediately upon adoption.

INTRODUCED AND PASSED by the City Commission of the City of FORT LAUDERDALE Florida, in regular session this \_\_\_\_\_ day of \_\_\_\_\_.

\_\_\_\_\_  
Mayor - Commissioner

ATTEST: \_\_\_\_\_ (SEAL)  
City Auditor and Clerk

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
43143815701	SW 9th Street	BROWARD	1(86900-SIG)	00S4-049

RAILROAD COMPANY

Florida East Coast Railway L.L.C.
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- A. JOB DESCRIPTION & LOCATION: LEDs, CWT, Event Recorder, Generator Case
- B. TYPE OF ROADWAY FACILITY: 2 thru lanes - Urban Local Access
- C. FDOT/AAR XING NO.: 272561-N RR MILE POST TIE: 341 + 4,223'
- D. TYPE CROSSING PROPOSED: III CLASS: IV 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. XX Flashing Signals with Gates.
  - f. \_\_\_\_\_ Flashing Signals with Cantilever and Gates.

2. PROPOSED DEVICES: (Safety Index Rating 70.84 )
- a. \_\_\_\_\_ No revision required.
  - b. \_\_\_\_\_ Crossbuck and Disk.
  - c. \_\_\_\_\_ Flashing Signals and Disk.
  - d. \_\_\_\_\_ Flashing Signals with Cantilever.
  - e. XX 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. N/A By Others ( \_\_\_\_\_ Company.)
  - 2. N/A By Railroad Company.

- G. AUTHORITY REQUESTED: (Draft attached:  Yes  No.)
- 1. XX Agreement (Third Party Participating City of Fort Lauderdale )
  - 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.)

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

725-090-41  
 RAIL  
 OGC - 03/12

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & RW NUMBER	FAP NUMBER
43143815701	SW 9th Street	BROWARD	1(86900-SIG)	00S4-049

COMPANY NAME: Florida East Coast Railway L.L.C.

A. FDOT/AAR XING NO.: 272561-N RR MILE POST TIE: 341 + 4,223'

B. TYPE SIGNALS PROPOSED III CLASS IV 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	Flashing Signals - One Track	\$2,256.00
II	Flashing Signals - Multiple Tracks	\$2,985.00
III	Flashing Signals and Gates - One Track	\$3,402.00
IV	Flashing Signals and Gates - Multiple Tracks	\$4,272.00
V	3 or 4 Quadrant Flashing Signals and Gates - One Track	\$6,726.00
VI	3 or 4 Quadrant Flashing Signals and Gates - Multiple Tracks	\$8,442.00

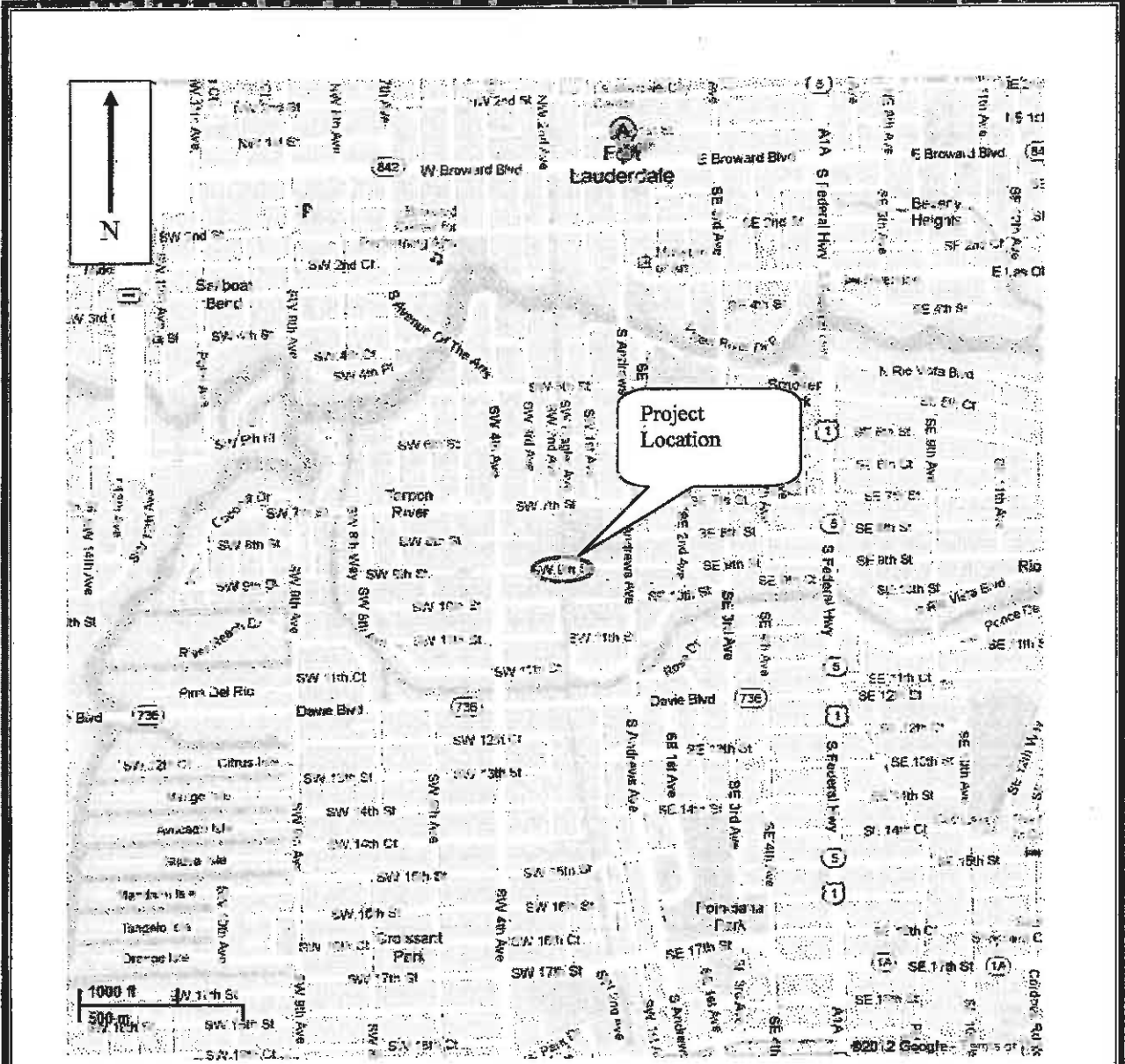
AUTHORITY: FLORIDA ADMINISTRATIVE RULE 14-57.011  
 Public Railroad-Highway Grade Crossing Costs

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, 2011 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**

**Florida East Coast Railway L. L. C.**

<b>LOCATION:</b>	SW 9 <sup>th</sup> Street, Broward County
<b>FINANCIAL PROJECT NO.:</b>	431438-1-57-01
<b>CROSSING NO.:</b>	272561-N
<b>RAILROAD MILEPOST:</b>	341 + 4,223'

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

OFFICE OF MODAL DEVELOPMENT  
DISTRICT 4 RAIL OFFICE

**PROJECT SCOPE AND COST ESTIMATE**

**PROJECT INFORMATION**

**Financial Project No.:** 431438-1-57-01  
**FAP Number:** 00S4-049  
**Location:** S.W. 9<sup>th</sup> Street  
**County:** Broward  
**Crossing No.:** 272561-N  
**RR. MP.:** 341 + 4,223'  
**Company:** Florida East Coast Railway, L.L.C.

*This project scope and cost estimate was prepared by: District 4 Railroad  
Coordinator's Office*

Install LED Flashing Lights, Generator Case, CWT, Event Recorder..... \$ 234,650.00

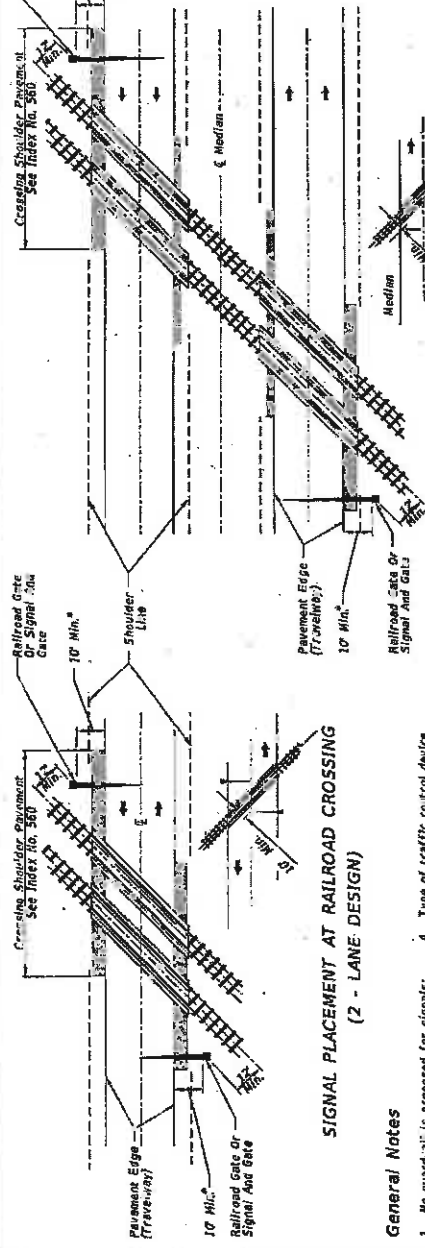
**TOTAL ESTIMATED COSTS.....\$ 234,650.00**

Crossing No.:	272561N	Roadway:	SW 9th ST	County:	Browa	City:	Fort Lauderdale
Rank 2010:	410	SR No.:		RR Company:		FEC	Date: 5/17/00
Index 2010:	60.09	US No.:		Division Name:			RR Rep: Moschetto
Rank 2009:	376	Latitude:	26.111197	Subdivision Name:			
Index 2009:	59.56	Longitude:	80.145821	Branch Name:	MAIN		
Rank 2008:	391			RR Milepost:	341.8		Crossing Stats Year: 2010
Index 2008:	59.56			Recommend Warning:	FL&G		
Purpose:							

Roadway Speed:	25	<input type="checkbox"/>		Min Train Speed:	30	<input type="checkbox"/>	
Crossing Angle:	60-90 deg	<input type="checkbox"/>		Max Train Speed:	45	<input type="checkbox"/>	
Traffic Count/AADT:		<input type="checkbox"/>		Day Thru / Switch:	11 /	<input type="checkbox"/>	
Truck %:		<input type="checkbox"/>		Night Thru / Switch:	11 /	<input type="checkbox"/>	
School Buses:	6	<input type="checkbox"/>		Passenger Train Count:		<input type="checkbox"/>	
Traffic Date:		<input type="checkbox"/>		Commuter Train Count:		<input type="checkbox"/>	
Thru Lanes:	2	<input type="checkbox"/>		Train Count Date:	7/20/1986	<input type="checkbox"/>	
Aux Lanes:	0	<input type="checkbox"/>		Mainline Tracks:	2	<input type="checkbox"/>	
Traf Sgnl Preemp: Not Interconnect		<input type="checkbox"/>		Other Line Tracks:	0	<input type="checkbox"/>	
Train Sgnl in Proximity to Xing?		<input type="checkbox"/>		Train Detection:	Other	<input type="checkbox"/>	
ENS (Y/N):	N	<input type="checkbox"/>		Flashing on Cant not over Traffic:	0	<input type="checkbox"/>	
Crossbucks on Mast:	2	<input checked="" type="checkbox"/>		Flashing on Cant over Traffic:	0	<input type="checkbox"/>	
Crossbucks on Cantilever:	0	<input checked="" type="checkbox"/>		Flashing Lights on Mast:	2	<input type="checkbox"/>	
Stop Sign:	0	<input checked="" type="checkbox"/>		Gate Count:	2	<input type="checkbox"/>	
Yield Sign (Y/N):	N	<input type="checkbox"/>		4 Quad Gates (Y/N):	N	<input type="checkbox"/>	
Other Sign:	R15-2	<input type="checkbox"/>		Ped Gates (None/FLG):		<input type="checkbox"/>	
# Other Signs:	2	<input type="checkbox"/>		LED Count:	0	<input type="checkbox"/>	8
Advanced Warning (Y/N):	Y	<input checked="" type="checkbox"/>		8" Count:	0	<input type="checkbox"/>	
Side St. Adv Warning (Y/N):	N	<input type="checkbox"/>		12" Count:	8	<input type="checkbox"/>	
Hump Sign (Y/N):	Unknown	<input type="checkbox"/>		Signal Mod Date:		<input type="checkbox"/>	
Pymnt Marks: Stoplines+RR Xing:		<input checked="" type="checkbox"/>		Signal Maint Agency:	New Field	<input type="checkbox"/>	
Bell Count:	1	<input checked="" type="checkbox"/>		Surface Maint Agency:	City	<input type="checkbox"/>	
Surface Mod Date:		<input type="checkbox"/>		Sidewalk Thru Xing (Y/N):	N	<input type="checkbox"/>	
Surface Type:	Concrete	<input type="checkbox"/>		Sidewalk Present (Y/N):	N	<input type="checkbox"/>	
Surface Condition:	Excellent	<input type="checkbox"/>		Illuminated (Y/N):	Y	<input type="checkbox"/>	
Approach:	None	<input type="checkbox"/>		Distance mast to curb (4'9" or (2') sw		<input type="checkbox"/>	
Vehicle Reactions:	None	<input type="checkbox"/>		Distance mast to travelway (12'3")		<input type="checkbox"/>	
Driver Reaction:	No Drivers	<input type="checkbox"/>		If < 45mph, mast to travel (10')		<input type="checkbox"/>	
Team Recommendations:				Lane width > 25' = cantilever		<input type="checkbox"/>	
New Case / LED / CWT. Gen Case Recorder				Mast to-RR (15') or (12' exception)		<input type="checkbox"/>	
Reposition Crossing Gates.				Gate Tip to median (4')		<input type="checkbox"/>	
Remove Concrete Foundation with Gates are Repositioned							

Conflicts:

W to Advance Warning Sign ~~(R)~~ West Side

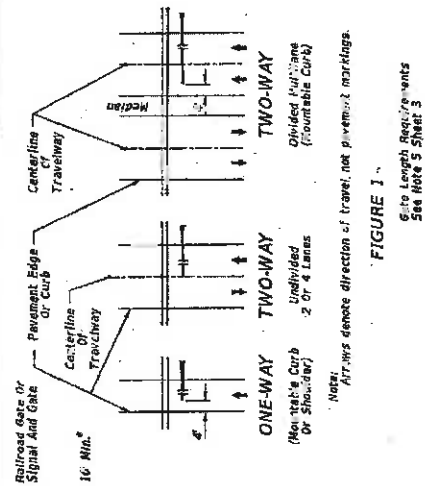


**SIGNAL PLACEMENT AT RAILROAD CROSSING (2 - LANE DESIGN)**

**SIGNAL PLACEMENT AT RAILROAD CROSSING (4 - LANE DESIGN)**

**General Notes**

1. No guardrail is proposed for signals; however, some form of impact attenuation device may be specified for certain locations.
2. Advance flashing to be installed when and where specified in plans or specifications.
3. Top of foundation shall be no higher than 4" above finished shoulder grade.
4. Type of traffic control device:
  - I. Flashing signals
  - II. Flashing signals with cantilever
  - III. Flashing signals with gate
  - IV. Flashing signals with cantilever and gate
  - V. Gate
5. Class of traffic control devices:
  - I. Flashing signals-multiple tracks
  - II. Flashing signals and gates-one track
  - III. Flashing signals and gates-multiple tracks
  - IV. Flashing signals and gates-multiple tracks



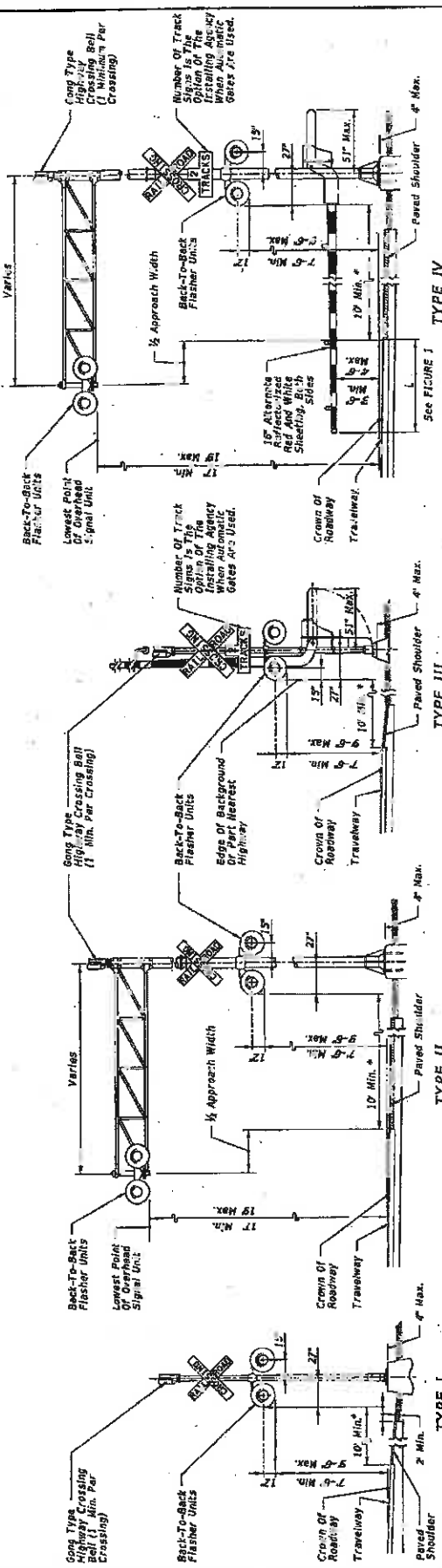
**FIGURE 1**

6 to Length Requirements See Note 5 Sheet 3

Note: AT-WS denote direction of travel, not pavement markings.

Note: Two separate foundations may be required for signals, one for each, 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.



**TYPE I**

**TYPE II**

**TYPE III**

**TYPE IV**

REVISION	DESCRIPTION
01/01/11	LAST REVISION

FDOT DESIGN STANDARDS  
FY 2012/2013

RAILROAD GRADE CROSSING  
TRAFFIC CONTROL DEVICES

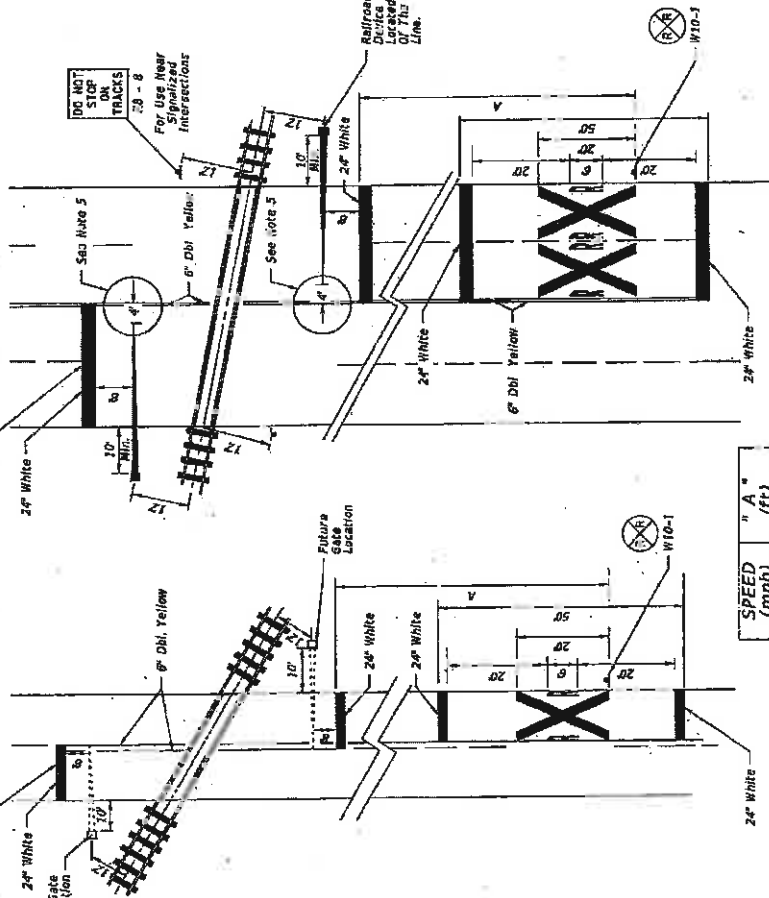
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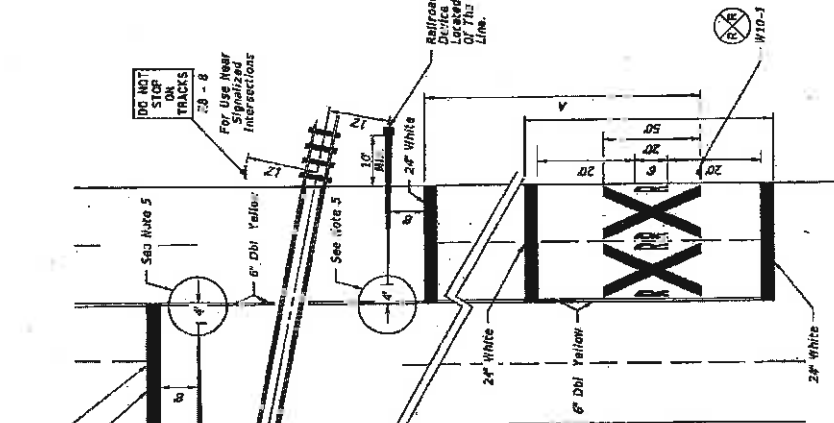
**RAILROAD CROSSING AT TWO (2)-LANE ROADWAY**

Stop Bar Perpendicular to Edge of Travel Way or 8' From & Parallel To Gate Which Present.

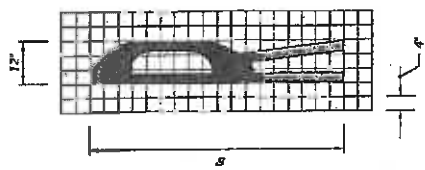
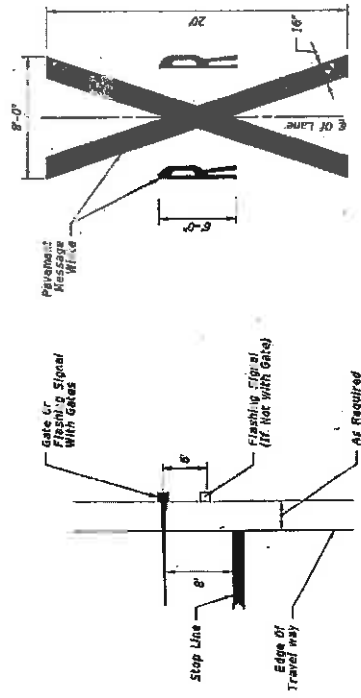


SPEED (mph)	"A" (ft)
50	400
55	325
60	250
45	175
40	125
35	100
URBAN	85 MIN.

**RAILROAD CROSSING AT MULTILANE ROADWAY**



**RELATIVE LOCATION OF CROSSING TRAFFIC CONTROL DEVICES**



- NOTES:**
- When calculating pavement message, quantities do not include traverse lines.
  - Placement of sign W10-1 in a residential or business district should be such that the sign is visible from a minimum distance of 100' from the crossing. Where street intersections occur between the RR pavement message and the tracks an additional W10-1 sign and additional pavement message should be used.
  - A portion of the pavement markings symbol should be directly opposite the W10-1 sign.
  - Recommended location for FTP-61-06 or FTP-62-06 signs, 10C Urban and 300' rural. See Index 17355 for sign details.
  - Gate Length Details:  
For Two-way undivided sections:  
The gate should extend to within 1' of the center line. Multiple approaches the maximum gate length may not reach to the center line. The gate length should be a maximum of 6'.  
For one-way or divided sections:  
The gate should extend to within 1' of the center line from the gate tip to the inside edge of pavement in a maximum of 6'.

LAST REVISION 07/01/10

DESCRIPTION: FDOT DESIGN STANDARDS FY 2012/2013

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SHEET NO. 3

