### 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	Road Name or Number	County Name	Parcel & R/W Number	FAP Number
N/A	NW 48 <sup>th</sup> St (Green Rd)	Broward	N/A	N/A

THIS AGREEMENT, made and entered into this \_\_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_ by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and <u>BROWARD</u> 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 28<sup>th</sup>, 2015, and

WHEREAS, the DEPARTMENT and CSXT entered into an Amended South Florida Operating and Management Agreement (SFOMA) on January 25<sup>th</sup>, 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 29<sup>th</sup>, 2015), and

WHEREAS, the DEPARTMENT and the SFRTA entered into the SFRC Operating Agreement ("Operating Agreement") on June 13<sup>th</sup>, 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 <u>SX 1000.20</u>, FDOT/Association of American Railroads (AAR) Crossing Number <u>621525H</u>, at or near <u>Deerfield Beach</u>, Florida as shown on the Project Location Sheet <u>N/A</u>, 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:

 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 <u>C - Concrete</u> 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.
- 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."

 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 <u>NW 48<sup>th</sup> Street</u>. 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 <u>\$2,000,000.00</u> combined single limit for bodily injury and/or property damage per occurrence and with an annual aggregate limit of no less than <u>\$6,000,000.00</u> 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 <u>\$767,168.51</u>. 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** for refusal 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.

IN WITNESS WHEREOF, the Parties have made and executed this Contract: BROWARD COUNTY, through its BOARD OF COUNTY COMMISSIONERS, signing by and through its Mayor or Vice-Mayor, authorized to execute same by Board action on the day of , 2020. FLORIDA DEPARTMENT OF TRANSPORTATION, signing by and through its , duly authorized to execute same, and SOUTH FLORIDA REGIONAL TRANSPORTATION AUTHORITY. and through signing by , duly authorized to execute same. its

#### COUNTY

ATTEST:

BROWARD COUNTY, by and through its Board of County Commissioners

By:

By:

Mayor

ex officio Clerk of the Broward County Board of County Commissioners

Broward County Administrator, as

2020 day of

Approved as to form by Andrew J. Meyers Broward County Attorney Governmental Center, Suite 423 115 South Andrews Avenue Fort Lauderdale, Florida 33301 Telephone: (954) 357-7600 Telecopier: (954) 357-7641

<u>1/17/2020</u> (Date) By:

Faiardo Assistant County Attorney

Deputy County Attorney

Michael J. Kerr

Insurance requirements approved by Broward County Risk Management Division:

Name: Title:

## SFRTA

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

By:

SFRTA Executive Director

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

Legal Review (DEPARTMENT):

Ву: \_\_\_\_\_

CROSSIN	CROSSING SURFACES						
Туре	Type Definition						
c	Cancrete						
R	Rubber						
RA	Rubber/Asphalt						
TA	Timber/Asphalt						

CT OP	ZONE	500	0110050	CROSSING
DIUP	ZUNE	run	RUDDER	CRUSSING

Design Speed (mph)	Zone Length (Distance From Stop		
45 Or Less	250		
50 - 55	350		
60 - 65	500		
70	600		

Nates:

1. Type R Crossings are NOT to be used for multiple track crossings within zones for an existing or scheduled future vehicular stop. Zone lengths are charted above.

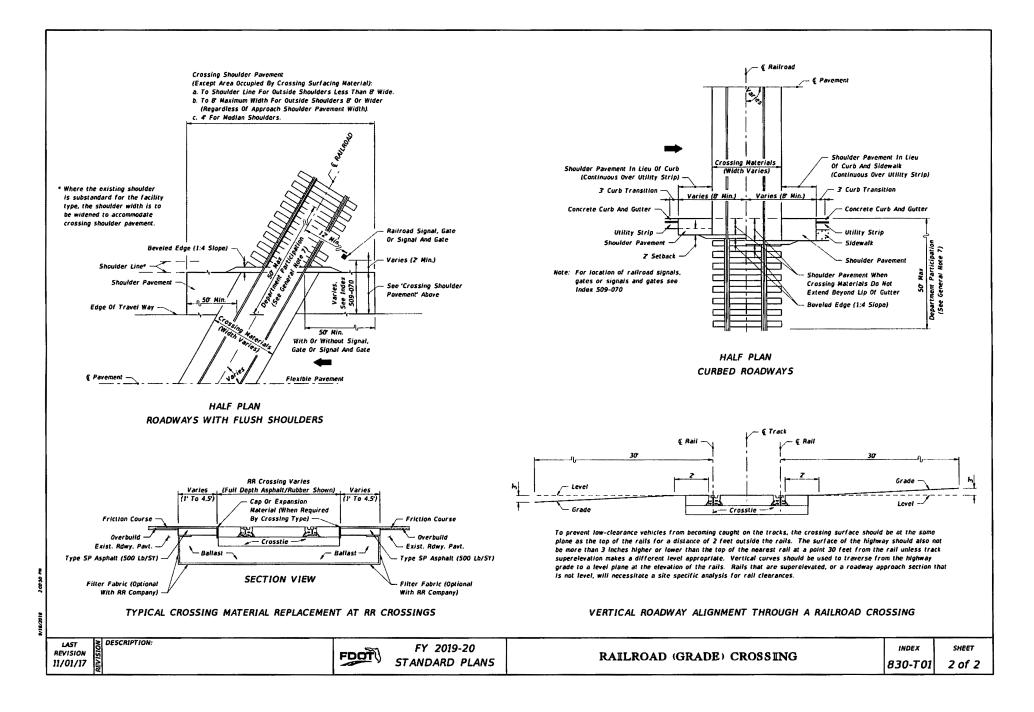
 Single track Type R Crossings within the zones on the chart may be used unless engineering or safety considerations dictate otherwise.

#### GENERAL NOTES

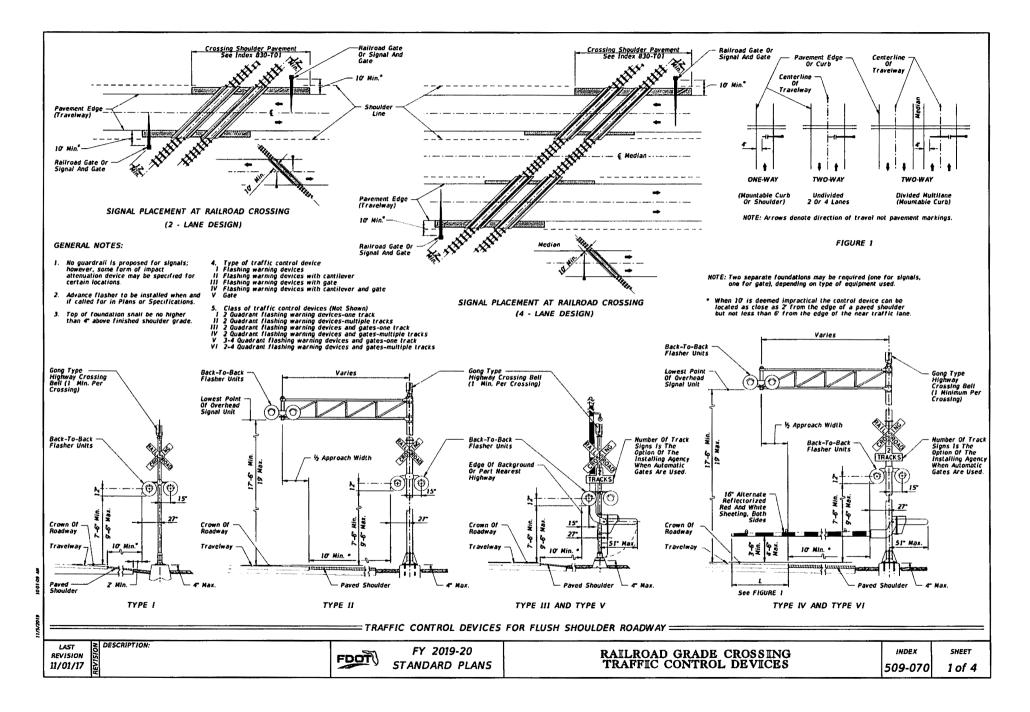
- The Railroad Company will furnish and install all track bed (ballast), crossties, rails, crossing surface panels and accessory components. All pavement material, including that through the crossing, will be furnished and installed by the Department or its Contractor, unless negotiated otherwise.
- 2. When a railroad grade crossing is located within the limits of a highway construction project, a transition pavement will be maintained at the approaches of the crossing to reduce vehicular impacts to the crossing. The transition pavement will be maintained as appropriate to protect the crossing from low clearance vehicles and vehicular impacts until the construction project is completed and the final highway surface is constructed.
- 3. The Central Rail Office will maintain a list of currently used Railroad Crossing Products and will periodically distribute the current list to the District Offices as the list is updated.
- 4. The Railroad Company shall submit engineering drawings for the proposed crossing surface type to the Construction Project Engineer and/or the District Rail Office for concurrence along with the List of Railroad Crossing Products. The approved engineering drawings of the crossing surface type shall be made a part of the installation agreement.
- 5. Sidewaiks shall be constructed through the crossing between approach sidewaiks of the crossing. Sidewaiks shall be constructed with appropriate material to allow unobstructed travel through the crossing in accordance with ADA requirements.
- 6. Install pavement in accordance with the Specifications.
- 7. The Department will participate in crossing work, that requires adjustments to rail outside of the crossing, no more than 50 feet from the edge of the travel way.

LAST OESCRIPTION: EVISION US /01/17	FDOT	FY 2019-20 STANDARD PLANS	RAILROAD (GRADE) CROSSING	<sup>INDEX</sup> 830-T'01	sheet 1 of 2

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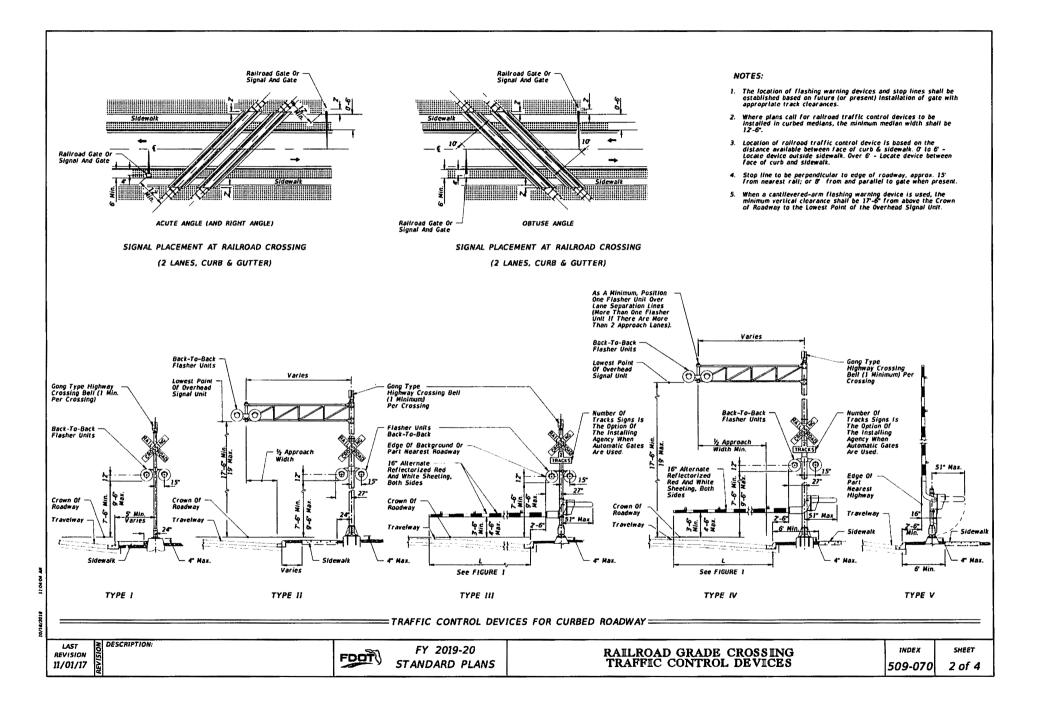


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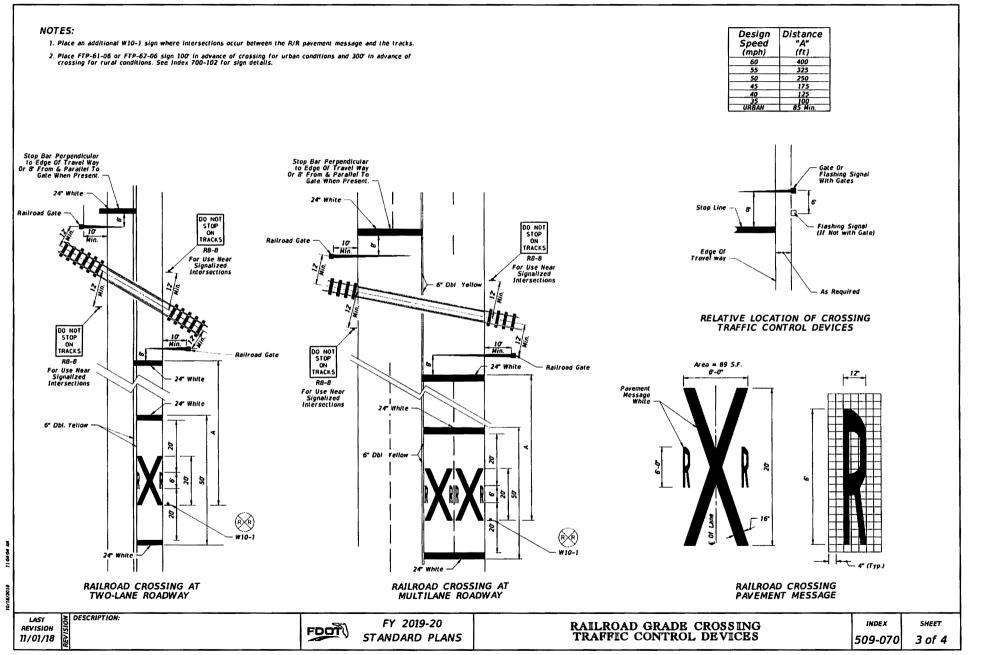
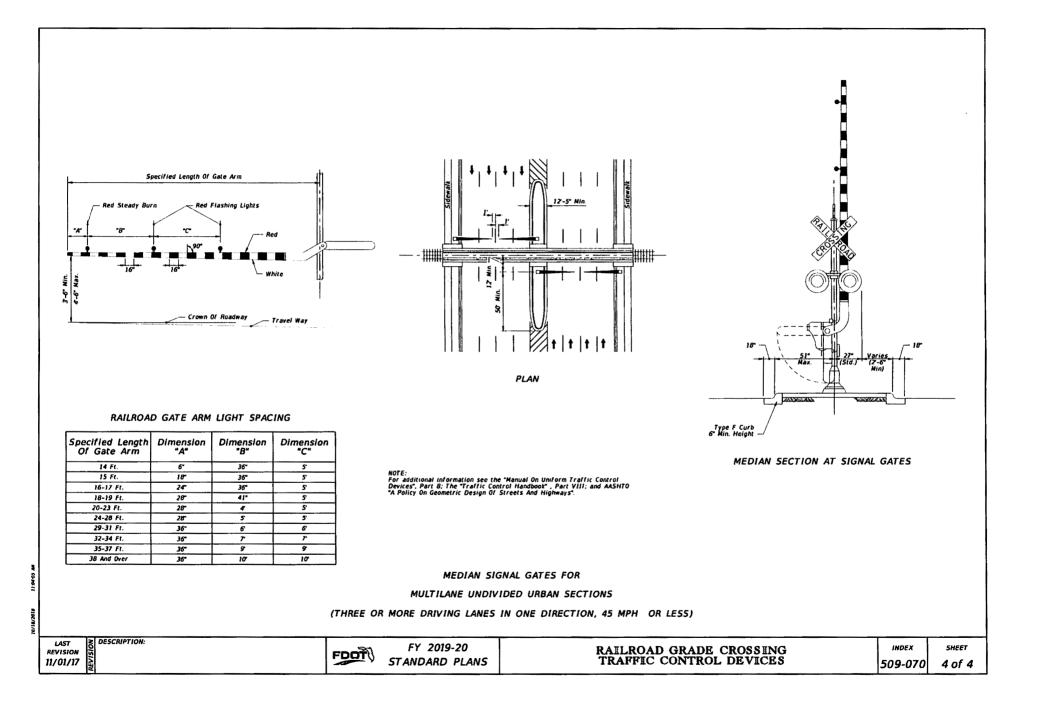


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#### STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES ANNUAL MAINTENANCE COSTS

725-090-41 RAIL OGC - 07/16

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER
N/A	NW 48th St	BROWARD	N/A	N/A
COMPANY NAME: SFF	RTA			
A. FDOT/AAR XING NO.: 6	21525H	RR	MILE POST TIE: SX 1000	.20
B. TYPE SIGNALS PROPOS	SED N/A	CLASS	IV DOT INDEX:	17882

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

#### Annual Maintenance Cost Exclusive of Installation

CLASS	DESCRIPTION	COST*
L	2-Quadrant Flashing Lights with One Track	\$2,386.00
11	2-Quadrant Flashing Lights with Multiple Tracks	\$3,158.00
111	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.

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06 DECEMBER 2018

# SFRTA ENGINEERING & CONSTRUCTION ESTIMATE SUMMARY NW 48TH STREET (621525-H) – GRADE CROSSING RECONSTRUCTION

ITEM	1	AMOUNT	FUNDING SOURCE
DESIGN	\$	34,416.75	RRA
CONSTRUCTION	\$	688,335.01	RRA
FLAGGING*	\$		RRA
CE&I	\$	34,416.75	RRA
CONTINGENCY	\$		
SUBTOTAL		757,168.51	
PTC IMPACT OPERATING COST IMPACT	<u>\$</u> \$	10,000.00	RRA
TOTAL	\$	767,168.51	

\* Flagging cost included in Construction.

Estimate expires 30 days after transmittal date. Please increase values 1.5% for every month after expiration time.

Emmanuel Cumberbatch, P.E. Senior Project Manager - SFRC

Railr	road-Highway Road Crossing Construction and Traffic Control Device Installation ICE - NW 48t	h Street	: (621525-H)	
ltem	Description		Cost	
1.0	RAILROAD-HIGHWAY ROAD CROSSING CONSTRUCTION - TRACK WORK	\$	553,505.64	
2.0	RAILROAD-HIGHWAY ROAD CROSSING CONSTRUCTION - ROADWAY WORK	\$	90,298.79	
3.0	RAILROAD-HIGHWAY ROAD CROSSING CONSTRUCTION - SIGNALS WORK	\$	20,150.00	
4.0	RAILROAD-HIGHWAY ROAD CROSSING - TRAFFIC CONTROL DEVICE INSTALLATION	\$	-	
5.0	FLAGGING SERVICES	\$	15,544.00	
6.0	SFRC - INFRASTRUCTURE UPGRADES	\$	8,836.57	
	Construction Total	\$	688,335.03	
	CEI		34,416.75	
	Design Grand Total		34,416.75 <b>757,168.5</b> 3	

1.0 ROAD CROSSING CONS	STRUCTION	- TRACK W	VORK		
Description	Units	No. of Units	Unit Cost		Total Cost
Road Crossing < 100 Track Feet	TF		\$ 4,133.07	\$	
Road Crossing 101 < 250 Track Feet	TF	210	\$ 2,603.83	\$	546,804.69
Road Crossing 250+ Track Feet	TF		\$ 1,816.31	\$	-
Remove and Install 8.5-foot Pre-Plated Wood Crossties	EA	80	\$ 83.76	\$	6,700.95
Remove and Install 8.5-foot Concrete Crossties	EA		\$ 58.02	\$	-
Remove and Install 8.5-foot E-Clip Concrete Crossties	EA		\$ 58.02	\$	e e
136RE (new) to 115RE (worn) HH Compromise Rail	EA	2	\$ 1,409.37	\$	2,818.74
	Description Road Crossing < 100 Track Feet Road Crossing 101 < 250 Track Feet Road Crossing 250+ Track Feet Remove and Install 8.5-foot Pre-Plated Wood Crossties Remove and Install 8.5-foot Concrete Crossties Remove and Install 8.5-foot E-Clip Concrete Crossties	DescriptionUnitsRoad Crossing < 100 Track Feet	DescriptionUnitsNo. of UnitsRoad Crossing < 100 Track Feet	DescriptionUnitsUnitsUnitsRoad Crossing < 100 Track Feet	DescriptionUnitsNo. of UnitsUnit CostRoad Crossing < 100 Track Feet

553,505.64

\$

	2.0 ROAD CROSSING CONSTRUCTION - ROADWAY WORK							
ltem	Description	Units	No. of Units	Unit Cost	Total Cost			
2.1	Superpave Ashaltic Concrete, Traffic C	TN		\$ 196.31	\$-			
2.2	Asphaltic Concrete Friction Course (FC-9.5)	TN	55.00	\$ 282.64	\$ 15,545.37			
2.3	Milling Existing Asphalt Pavement, 1-1/2" Avg depth	SY	2600.00	\$ 5.25	\$ 13,639.84			
2.4	MAINTENANCE OF TRAFFIC	DY	7.00	\$ 5,872.91	\$ 41,110.34			
2.5	CONCRETE CURB & GUTTER, TYPE F	LF		\$ 46.30	\$-			
2.6	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	170.00	\$ 81.42	\$ 13,841.13			
2.7	ADA-COMPLIANT CAST-IN-PLACE DETECTABLE WARNING	SF	32.00	\$ 54.24	\$ 1,735.76			
2.8	SINGLE POST SIGN	AS		\$ 638.01	\$-			
2.9	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND	LF	100.00	\$ 6.33	\$ 632.66			
	CROSSWALK				\$-			
2.10	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	0.00	\$ 175.56	\$-			
2.11	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.22	\$ 8,449.94	\$ 1,858.99			
2.12	THERMOPLASTIC, OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9	GM		\$ 2,312.61	\$-			
	LANE DROP				\$-			
2.13	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.22	\$ 8,568.53	\$ 1,885.08			
2.14	Reflective Pavement Marker	EA	8.00	\$ 6.20	\$ 49.64			
2.15	Sod - Landscaping	SYD		\$ 9.79	\$-			

90,298.79

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Railroad-Highway Road Crossing Construction and Traffic Control Device Installation ICE - NW 48th Street (621525-H)

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	3.0 ROAD CROSSING CONSTRUCTION - SIGNALS WORK								
item	Description	Units	No. of Units	Unit Cost	Total Cost				
3.1	JUMPER CABLES	FT		\$39.91	\$				
3.2	TRACK WIRES #6 TWISTED PAIR	FT		\$ 11.98	\$				
3.3	DAX CABLING (12 CONDUCTOR 14)	FT		\$ 17.49	\$				
3.4	3M SPLICING KIT	Kit		\$ 81.27	\$				
3.5	INSULATED JOINTS (136 RE)	EA		\$ 6,995.75	\$				
3.6	INSULATED BOND STRANDS	кіт		\$ 30.66	\$				
3.7	3/16 X 3/16 FIELD SLEEVES	EA		\$ 1.75	\$				
3.8	BONDING EQUIPMENT (ERICO or approved equal)	SY		\$ 279.83	\$				
3.9	Labor (2 signal-person crew)	HR	96	\$ 209.87	\$ 20,150.00				

20,150.00

\$

	4.0 RAILROAD-HIGHWAY ROAD CROSSING - TRAFFIC CONTROL DEVICE INSTALLATION							
Item	Description	Units	No. of Units	Unit Cost	Total Cost			
4.1	AAR Terminal-Posts	EA		\$ 166.68	\$0.00			
4.2	Tray, Holds 4, 12" x 27"	EA		\$ 195.27	\$0.00			
4.3	Battery, SPL 250 NiCad	Bank		\$ 300.21	\$0.00			
4.4	Battery, SPL 340 NiCad	Bank		\$ 404.23	\$0.00			
4.5	Battery, SPL 420 NiCad	Bank		\$ 496.70	\$0.00			
4.6	Charger, ELC 12/20 D, 120/240 VAC, 12V, 20A (Dark Gray)	EA		\$ 842.53	\$0.00			
4.7	Charger, ELC 12/20 D, 120/240 VAC, 12V, 40A (Dark Gray)	EA		\$ 1,061.53	\$0.00			
4.8	8x8 Aluminum w/AC	EA		\$ 16,424.81	\$0.00			
4.9	DTMF Radio	EA		\$ 1,881.37	\$0.00			
4.10	DTMF Antenna Kit	EA		\$ 365.00	\$0.00			
4.12	Led, 12"	EA		\$ 288.96	\$0.00			
4.13	Bell, Electronic	EA		\$ 565.74	\$0.00			
4.14	Gate Arm, 24', Alumi-Glass, Diamond Grade-Vertical Striping	EA		\$ 862.61	\$0.00			
4.15	Gate Arm, 32', Alumi-Glass, Diamond Grade-Vertical Striping	EA		\$ 1,020.77	\$0.00			
4.16	Construction Total	EA		\$ 547.49	\$0.00			
4.17	Windguard	EA		\$ 534.11	\$0.00			
4.18	Gate Arm, 24', Alumi-Glass, Diamond Grade-Vertical Striping	EA		\$ 742.16	\$0.00			
4.19	Gate Arm, 32', Alumi-Glass, Diamond Grade-Vertical Striping	EA		\$ 3,224.13	\$0.00			
4.20	Grand Total	EA		\$ 2,743.52	\$0.00			
4.21	Gate Mech S-60, includes all hardware and grey flexible conduit, no MTSS, w/maintenance switch, 115 VAC gate heater	EA		\$ 6,879.56	\$0.00			
4.22	Gate Mech, S-60 Exit Gate includes all hardware and flexible conduit, no MTSS, w/maintenance switch, 115 VAC gate heater	EA		\$ 8,389.43	\$0.00			

	4.0 RAILROAD-HIGHWAY ROAD CROSSING - TRAFFIC CONTROL DEVICE INSTALLATION						
ltem	Description	Units	No. of Units	Unit Cost	Total Cost		
4.23	Sidewalk Arm Kit	EA		\$ 973.32	\$0.00		
4.24	Gate Conversion Bracket with Cast Adapter and Shear Bolts	EA		\$ 549.93	\$0.00		
4.25	Offset Bracket for 5" Mast	EA		\$ 699.58	\$0.00		
4.26	Pinnacle, 5"	EA		\$ 163.64	\$0.00		
4.27	Mast, 18'x 5" with Pigtail, Fits Double Sided Inct Box Base	EA		\$ 1,099.85	\$0.00		
4.28	Crossarm Assy, 5" Mtg., 1 Way Gate Back Mast , Bracket, Hoods, Backgrounds, Lightheads	EA		\$ 1,025.64	\$0.00		
4.29	Crossarm Assy, 4" Mtg., 1 Way (Sidelight, Mast Flasher, Cant Arm), Bracket, Hoods, Backgrounds, Lightheads	EA		\$ 1,025.64	\$0.00		
4.30	Junction Box, Double Sided 2" Flange	EA		\$ 1,085.25	\$0.00		
4.31	Lock, Barrell	EA		\$ 312.68	\$0.00		
4.32	Power Off Light, 18 Watt Inc. 2 Wire (10V)	EA		\$ 494.42	\$0.00		
4.33	Event Analyzer	EA		\$ 5,208.49	\$0.00		
4.34	Hold Down Spring for KRPA Relay	EA		\$ 137.23	\$0.00		
4.35	KRPA-11AN-240, 240V, 10A-8 Pin	EA		\$ 159.15	\$0.00		
4.36	Socket, 27E122 ,KRPA Type, 8 Pin	EA		\$ 142.94	\$0.00		
4.37	Plugboard, Kit includes contacts, 1E, and 3E Test Posts	EA		\$ 549.81	\$0.00		
4.38	500 ohm, 4FB-2F-1B, Neutral	EA		\$ 1,410.51	\$0.00		
4.39	Crossbuck	EA		\$ 239.07	\$0.00		
4.40	Sign, "2 Track"	EA		\$ 121.36	\$0.00		
4.41	5" Sign Kit-Sign Mtg. Brackets, Extensions, U-bolts & Hdwr.	EA		\$ 135.96	\$0.00		
4.42	Wago Kit	EA		\$ 228.12	\$0.00		
4.43	Cable, XIP 8 ft (cable 1) (need 1 for XP4 Assy)	EA		\$ 481.41	\$0.00		

	4.0 RAILROAD-HIGHWAY ROAD CROSSING - TRAFFIC CONTROL DEVICE INSTALLATION						
ltem	Description	Units	No. of Units	Unit Cost	Total Cost		
4.44	Cable, XIP 8 ft (cable 2) (need 1 for XP4 Assy)	EA		\$ 481.30	\$0.00		
4.45	Module, IXC-20S, PM	EA		\$ 978.47	\$0.00		
4.46	XIP-20, Crossing Interface Panel 20A	EA		\$ 1,311.89	\$0.00		
4.47	Module, IXC-20S+	EA		\$ 3,476.05	\$0.00		
4.48	Siemens GCP 4000	EA		\$ 38,213.24	\$0.00		

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5.0 FLAGGING SERVICES									
ltem		Description	Units	No. of Units	Unit Cost	Total Cost			
5.1	Flagging		Hourly	116	\$134.00	\$15,544.00			
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15,544.00

\$

Grand Total

tem	Description	Units	No. of Units	Unit Cost	Total Cost	
6.1	Remove and Install Insulated Joints - 136 RE -6 bolt Premium - 40 foot	EA		\$ 1,462.32	\$	-
6.2	Install 136 RE HH Rail	GM	0.06	\$ 145,803.39	\$	8,836.5
6.3	Install 8.5 foot Concrete Crossties - 136 RE	EA		\$ 58.02	\$	•
6.4	Install 8.5 foot Concrete Crossties - 115 RE	EA		\$ 58.02	\$	-
6.5	Remove and Install 8.5 foot- Pre-Plated Wooden Crossties - 115 RE	EA		\$ 83.76	\$	
6.6	Remove and Install 8.5 foot- Pre-Plated Wooden Crossties - 136 RE	EA		\$ 83.76	\$	-
6.7	Track Surfacing	GM		\$ 228,667.11	\$	-
6.8	Install 10 foot Pre-Plated Wooden Crossties - 115 RE	EA		\$ 122.78	\$	-
6.9	Install 10 foot Pre-Plated Wooden Crossties - 136 RE	EA		\$ 122.78	\$	-
6.10	Ballast - AREMA Gradation 4A	TN		\$ 63.29	\$	-

TOTAL

8,836.57

\$