

Memorandum



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CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

2011

To: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

Agenda Item No. 8(M)(8)

From: Carlos A. Gimenez
Mayor

Resolution No. R-987-11

Subject: Resolution Authorizing the Approval of a Railroad Reimbursement Agreement Synchronization of Grade Crossing and Crossing Traffic Control Devices-County (Traffic Signal Heads Mounted on the Railroad Truss) Between Miami-Dade County, the State of Florida Department of Transportation, and CSX Transportation, Inc. for the installation of traffic signal heads mounted on the railroad truss at the Intersection of State Road-976 (Bird Road) and SW 72 Avenue.

Recommendation

It is recommended that the Board of County Commissioners (BCC) approve the attached resolution authorizing the execution of a Railroad Reimbursement Agreement Synchronization of Grade Crossing and Crossing Traffic Control Devices-County (Traffic Signal Heads Mounted on the Railroad Truss) (Agreement) between Miami-Dade County (County), the State of Florida Department of Transportation (FDOT), and CSX Transportation, Inc. (CSX) for the relocation of existing traffic signal heads to be mounted on the railroad truss at the intersection of State Road-976 (Bird Road) and SW 72 Avenue.

Scope

The Agreement is specifically for one (1) railroad crossing and is located at the boundary between Commission Districts 6 and 7.

Fiscal Impact/Funding Source

There is no fiscal impact to the County as the work entails the relocation of an existing signal, and FDOT is responsible for the cost of installation. The County will continue to be responsible for the traffic signal maintenance.

Track Record/Monitor

The Public Works Department (PWD) Project Manager responsible for monitoring this project is Mr. Octavio Marin, P.E.

Background

PWD is currently responsible for the existing traffic signal operation and maintenance at Bird Road and SW 72 Avenue. A railroad grade crossing exists in close proximity to the aforementioned traffic signal. Bird Road is an FDOT maintained roadway which is being improved under project numbers 409496-1-57-01 and 424544-1-57-01 with the reconstruction of the intersection and improvements to the intersection's geometry and safety. As part of these improvements the County and FDOT desire that the Railroad Crossing Warning Devices be synchronized with the highway traffic signal devices. This will assist in clearing highway traffic from the grade crossing upon the approach of trains, as well as provide for improved operational efficiency of the highway system during train passage. The County was asked to participate in this Agreement as it includes the modification of existing highway traffic signal heads with their relocation onto the existing CSX cantilever truss for westbound State Road-976 (Bird Road) at SW 72 Avenue.

County Manager / Deputy Mayor



MEMORANDUM

(Revised)

TO: Honorable Chairman Joe A. Martinez
and Members, Board of County Commissioners

DATE: November 15, 2011

FROM: R. A. Cuevas, Jr.
County Attorney

SUBJECT: Agenda Item No. 8(M)(8)

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
- Ordinance creating a new board requires detailed County Manager's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's ____, 3/5's ____, unanimous ____) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor

Agenda Item No. 8(M)(8)

Veto _____

11-15-11

Override _____

RESOLUTION NO. R-987-11

RESOLUTION AUTHORIZING THE APPROVAL OF A RAILROAD REIMBURSEMENT AGREEMENT SYNCHRONIZATION OF GRADE CROSSING AND CROSSING TRAFFIC CONTROL DEVICES-COUNTY (TRAFFIC SIGNAL HEADS MOUNTED ON THE RAILROAD TRUSS) BETWEEN MIAMI-DADE COUNTY, THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, AND CSX TRANSPORTATION, INC. FOR THE INSTALLATION OF TRAFFIC SIGNAL HEADS MOUNTED ON THE RAILROAD TRUSS AT THE INTERSECTION OF STATE ROAD-976 (BIRD ROAD) AND SW 72 AVENUE

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

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board approves the Railroad Reimbursement Agreement Synchronization of Grade Crossing and Crossing Traffic Control Devices-County (Traffic Signal Heads Mounted on the Railroad Truss) between Miami-Dade County, the State of Florida Department of Transportation, and CSX Transportation, Inc., for the installation of traffic signal heads mounted on the railroad truss at the Intersection of State Road-976 (Bird Road) and SW 72 Avenue and authorizes the County Mayor or the Mayor's designee to execute same for an 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 **Sally A. Heyman** and upon being put to a vote, the vote was as follows:

	Joe A. Martinez, Chairman	aye	
	Audrey M. Edmonson, Vice-Chairwoman	absent	
Bruno A. Barreiro	aye	Lynda Bell	aye
Esteban L. Bovo, Jr.	aye	José "Pepe" Diaz	aye
Sally A. Heyman	aye	Barbara J. Jordan	aye
Jean Monestime	aye	Dennis C. Moss	aye
Rebeca Sosa	aye	Sen. Javier D. Souto	aye
Xavier L. Suarez	absent		

The Chairperson thereupon declared the resolution duly passed and adopted this 15th day of November, 2011. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

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

HARVEY RUVIN, CLERK

By: **Christopher Agrippa**
Deputy Clerk



Approved by County Attorney as
to form and legal sufficiency.

Hugo Benitez

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**RAILROAD REIMBURSEMENT AGREEMENT
 SYNCHRONIZATION OF GRADE CROSSING AND
 CROSSING TRAFFIC CONTROL DEVICES-COUNTY
 (Traffic signal heads mounted on the Railroad truss)**

FINANCIAL PROJECT ID	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL AND R/W NUMBER	FAP NUMBER
424544-1-57-01	SR-976/Bird Road	Miami Dade	1(SIG-B)	

THIS AGREEMENT, made and entered this _____ day of _____, _____, by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, hereinafter called the DEPARTMENT, and CSX TRANSPORTATION, INC., a corporation organized and existing under the laws of Virginia, with its principal place of business in the city of JACKSONVILLE, County of Duval State of FLORIDA, hereinafter called CSXT; and the COUNTY of MIAMI DADE a political subdivision of the State of FLORIDA, hereinafter called the COUNTY.

WHEREAS, train-activated Railroad Grade Crossing warning Devices, hereinafter called "Crossing Warning Devices", presently exist or shall be installed, as per the attached plan sheets, at the railroad/highway grade crossing on SR-976 (Bird Road) which crosses at grade the right of way and track(s) of CSXT'S Mile Post SXH 44.30 FDOT/AAR Crossing# 631070G in or near SW 72 Ave Miami, Florida, hereafter called the PROJECT; and

WHEREAS, an existing or proposed highway-to-highway intersection exists adjacent to or in close proximity to the aforementioned grade crossing; and, the DEPARTMENT and COUNTY, in the interest of safety, desire that the Crossing Warning Devices be synchronized with existing and/or proposed highway traffic signal devices, hereinafter called "Highway Signal Devices", so as to assist in clearing highway traffic from the grade crossing upon the approach of trains, and to provide for improved operational efficiency of the highway system during train passage; and

WHEREAS, the work to be contemplated hereunder is subject to the provisions of the Federal Highway Administration Federal -Aid Policy Guide, 23 C.F.R. Subchapter B, Part 140, Subpart I, as amended, and Federal -Aid Policy Guide, 23 C.F.R. Subchapter G, Part 646, Subpart B, as amended and DEPARTMENT'S Rule 14-57.011 Florida Administrative Code as amended.

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

1. CSXT, at the DEPARTMENT'S expense, will furnish and install a preemption synchronization circuit to a common cable junction box at or near the DEPARTMENT'S right-of-way line adjacent to COUNTY'S Highway Signal Devices control cabinet, and install other equipment necessary to provide the appropriate preemption and/or advanced preemption time.
2. The DEPARTMENT at the DEPARTMENT's expense will install or have installed all cable, circuitry, signal heads, control cabinet and all related equipment, required to operate the highway signal devices in a coordinated and synchronized manner; will provide the connecting cable from the highway signal devices to the common cable junction box with sufficient cable to be connected to terminals in CSXT's control case, and will configure the preemption circuit with its system whereby a failure of the highway signal devices will not cause an unsafe condition for either the railroad or the roadway. CSXT shall at the DEPARTMENT'S sole expense install the conduit under their track structure for connecting cable from the highway devices.
3. The common cable junction box and inter-connecting cable from the common cable junction box to the Highway Signal Devices shall be deemed the property of the COUNTY, and shall be maintained by the COUNTY. The interconnecting cable from the common cable junction box to the crossing warning devices shall be maintained by CSXT. The parties hereto shall have access to the common junction box in order to perform appropriate maintenance and testing.
4. The DEPARTMENT and CSXT will construct the PROJECT, and the COUNTY, upon final acceptance of the installation, will operate and maintain the highway signal devices and agrees to give CSXT sufficient notice prior to making any changes in the operation thereof which, in any way, might affect the coordination features of the

crossing warning devices. Said highway signal devices for westbound SR 976, Bird Road onto SW 72 Ave, shall be mounted on CSXT's cantilevers as shown on the plans attached hereto in Exhibit A. In the event said highway signal devices, and/or coordinating facilities of the COUNTY become inoperative, COUNTY will notify CSXT and restore or repair such devices and/or facilities promptly, and use other means including, traffic control personnel or law enforcement personnel to control the flow of traffic at the traffic signal locations at any time the Highway Signal Devices or pre-emption are inoperative so as to clear the highway/railroad grade crossing before the approach of trains.

5. The DEPARTMENT and CSXT will construct the PROJECT and CSXT, at its expense, will operate and maintain the crossing warning devices, overhead trusses and cantilevers and likewise agrees to give the COUNTY sufficient advance notice prior to making any changes in the operation thereof which, in any way, would affect the coordination features of the COUNTY's Highway Signal Devices. In the event said crossing warning devices and/or coordination facilities of CSXT become inoperative, CSXT will notify the COUNTY and restore or repair such devices and/or facilities.
6. Attached hereto as Exhibit A, and by this reference made a part hereof, are plans and /or operational design sheets numbered FL2003111 with specifications of work to be performed by CSXT pursuant to the terms hereof, and is an estimate of the cost thereof (including the common cable junction box) payable to CSXT by the DEPARTMENT in the amount of \$ 101,505. All work performed by CSXT shall be performed in accordance with these plans and specifications as approved by the DEPARTMENT and the COUNTY, and all subsequent plan changes shall likewise be approved by the parties.
7. The cost of any adjustment, relocation or replacement of said synchronization devices and related Highway Signal Devices shall be assumed by the party initiating such action, written notice shall be provided to CSXT, and the COUNTY. In such event that the COUNTY needs to adjust, relocate or replace synchronization devices and related Highway Signal Devices with COUNTY own forces, CSXT will accept the COUNTY self insurance program in lieu of the railroad protective liability insurance requirements for work within CSXT right of way.
8. The parties agree that the COUNTY shall have and assume sole responsibility and liability for personal injury and property damage or loss resulting from or related to the presence or the operation and functioning, or the failure thereof, of the highway devices placed on the CSXT overhead truss and cantilever to the maximum extent permitted by Section 768.28 of the Florida Status and subject to the monetary limitation set forth therein. The parties agree that the CSXT shall have and assume sole responsibility and liability for personal injury and property damage or loss resulting from the operation and functioning, or failure thereof, of the railroad crossing warning devices that are specified in other paragraphs of this agreement. Neither the COUNTY nor CSXT shall be responsible or liable for personal injury or property damage or loss where the failure or improper operation of their respective devices are caused solely as a result of the malfunction of the other party's devices.
9. The DEPARTMENT will be responsible for claims and demands arising out of the work undertaken by the DEPARTMENT pursuant to this agreement due to the negligent actions, done or committed by the DEPARTMENT, its contractors, employees, agents, or representatives in connection with the work done on the overhead truss or cantilever. CSXT will be responsible for claims and demands arising out of the work undertaken by CSXT pursuant to this agreement due to the negligent actions, done or committed by CSXT, its contractors, employees, agents, or representatives in connection with the work done on the overhead truss or cantilever.
10. ~~CSXT covenants and agrees that it will indemnify and hold harmless for DEPARTMENTS officers, agents, and employees from any claim, loss, damage, cost charge, or expense arising out of any action, neglect, emission, or delay by CSXT 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 CSXT nor any of its subcontractors will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from sole negligence of the DEPARTMENT, or any of its officers, agents, or employees.~~
11. Either party may make changes to their own equipment in any manner and agree to reimburse the other party for any expenses incurred by the other party as a result of such changes. 72 hours notice shall be given prior to work, which will have an effect on the other party. The 72 hour notice shall be waived in case of emergencies.

12. In the event of damage to the overhead truss or cantilever, the COUNTY shall be responsible for its own control devices, including any temporary structures or devices necessary for the mounting of the Highway Signal Devices, and CSXT shall be responsible for the overhead truss or cantilever structure and their own control devices, including any temporary structures or devices necessary for the mounting of the Railroad Crossing Warning Devices.
13. Upon completion of the work, CSXT 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 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 allow 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 possible. Adequate reference shall be made in the billing to CSXT'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 CSXT in the amount of such actual costs approved by the DEPARTMENT'S auditor.

14. 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.

Payment shall be made only after receipt and approval of goods and services unless advance payments are authorized by the State Comptroller under Section 215.422(14), Florida Statutes.

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 pre-audit and post-audit thereof.
16. Bills for travel expenses specifically authorized in this agreement shall be submitted and paid in accordance with DEPARTMENT Rule 14-46.002 "Responsibility for the cost of Railroad/Highway Crossings" and the Federal Highway Administration Federal-Aid Policy Guide, 23 C.F.R. 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 Banking and Finance. The 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 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 Banking and Finance. 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) 410-9724, or by calling the State Comptroller's Hotline, 1-800-848-3792.

18. Records of costs incurred under terms of this Agreement shall be maintained and made available upon request to COUNTY and the DEPARTMENT at all times during the period of this Agreement and for three years after final payment is made. Copies of these documents and records shall be furnished to the COUNTY and 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 COUNTY and 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 in 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 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 on leases for real property to a public entity, may not be awardee 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 from the date of being placed on the convicted vendor list.
21. In accordance with Section 287.0582, Florida Statutes, the following provisions are included in this Agreement:

The DEPARTMENT'S obligation to pay under this section is contingent upon an annual appropriation by the Florida Legislature.
22. The DEPARTMENT reserves the right to unilaterally cancel this Agreement for refusal by the contractor or CSXT to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received in conjunction with this Agreement.
23. If there is any existing contract exists between CSXT and either the COUNTY or DEPARTMENT, or a third party, by which this grade crossing is opened or maintained, or by which other crossing devices or highway devices are installed and maintained, then that contract shall remain in full force and effect, except when in conflict with this synchronization agreement.
24. This agreement is of an indefinite, but non-perpetual duration and shall terminate upon the removal of the aforementioned rail-highway grade crossing or upon removal of either the highway signal devices or crossing warning devices.
25. In the event any of the parties hereto desire an assignment of this agreement, it shall be said party's responsibility to obtain written acceptance of the assignment by the new party to the agreement.
26. Any notices required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been given if delivered by hand, sent by recognized overnight courier (such as Federal Express) or mailed by certified or registered mail, return receipt requested, in a postage-prepaid envelope, and addressed as follows:

If to the **DEPARTMENT: Florida Department of Transportation**

1000 NW 111th Avenue

Miami, FL 33172

Att: Rail Coordinator

(305)470-5333

If to **CSXT:**

CSX Transportation, Inc.

500 Water Street (S/C J301)

Jacksonville, FL 32202

Att: Principal Engineer Public PROJECTs

(904) 359-1048

If to the **COUNTY:**

Miami Dade County

Highway Division

Miami-Dade County Public Works Department

Stephen P. Clark Center

111 N.W. 1st Street, 15th Floor

Miami, Florida 33128

Att: Railroad Coordinator

(305) 375-4664

27. **CSXT 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 Vendor/Contractor during the term of the contract; and
2. Include an express requirement in any subcontract that subcontractors performing work or providing services pursuant to the state contract 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.

28. Provision ten (10) was stuck through prior to the agreement execution.

IN WITNESS WHEREOF, the parties hereto have made and executed this Supplemental Synchronization Agreement as of the day and year first above written.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____

Title: Director of Transportation Development

CSX TRANSPORTATION, INC.

By: _____

Title: _____

MIAMI DADE COUNTY

By: _____

Title: _____

Approved as to Form,
Legality, and Execution

By: _____
Attorney FDOT

Date: _____

Approved as to Funds
Available

By: _____
Fiscal FDOT

Date: _____

Approved as to FHMP
Requirements

By: _____
FHWA

Date: _____

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
FL-DOT	FLORIDA	87044-6901	STATE

APPROACH LENGTHS TABLE	
DESCRIPTION	APPROACH LENGTH (FEET)
TYPE CONTROL EQUIPMENT	
STANDARD MINIMUM WARNING TIME IN SECONDS	
ADDITIONAL GATE TIME IN SECONDS	
CLEARANCE TIME IN SECONDS	
DOT TRAFFIC LIGHT SIMULANEOUS PREEMPT TIME IN SECONDS	
DESIGNED WARNING TIME FOR TRAINS AT TIME TABLE SPEED	
DOT TRAFFIC LIGHT ADVANCE PREEMPT TIME IN SECONDS	
GENERAL EQUIPMENT DECISION TIME AT TIME TABLE SPEED	
TIME TABLE WARNING TRAIN SPEED IN MILES PER HOUR	
BUFFER SPEED IN MILES PER HOUR	
TOTAL WARNING SYSTEM DESIGN SPEED IN MILES PER HOUR	
APPROACH DISTANCE TO ISLAND EDGE IN FEET	
HALF WIDTH OF ISLAND IN FEET	
APPROXIMATE WIRE POSTS PER APPROACH CIRCUITS	

TYPE CONTROL EQUIPMENT	CHT	N/A	N/A
STANDARD MINIMUM WARNING TIME IN SECONDS	20	20	N/A
ADDITIONAL GATE TIME IN SECONDS	5	5	N/A
CLEARANCE TIME IN SECONDS	0	0	N/A
DOT TRAFFIC LIGHT SIMULANEOUS PREEMPT TIME IN SECONDS	0	0	N/A
DESIGNED WARNING TIME FOR TRAINS AT TIME TABLE SPEED	25	25	N/A
DOT TRAFFIC LIGHT ADVANCE PREEMPT TIME IN SECONDS	7	7	N/A
GENERAL EQUIPMENT DECISION TIME AT TIME TABLE SPEED	5	5	N/A
TIME TABLE WARNING TRAIN SPEED IN MILES PER HOUR	37	37	N/A
BUFFER SPEED IN MILES PER HOUR	25	25	N/A
TOTAL WARNING SYSTEM DESIGN SPEED IN MILES PER HOUR	5	5	N/A
APPROACH DISTANCE TO ISLAND EDGE IN FEET	30	30	N/A
HALF WIDTH OF ISLAND IN FEET	114	114	N/A
APPROXIMATE WIRE POSTS PER APPROACH CIRCUITS	44.83	44.67	N/A

APPROVED, _____ DATE, _____
 DIVISION ADMINISTRATOR

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

PROPOSED CROSSING
 SAFETRAN GCP48BB
 DETECTION CIRCUITRY (CONSTANT WARNING DETECTOR)

LATITUDE
 28°43'39"

GPS COORDINATES
 LONGITUDE
 80°18'41"

ELEVATION
 23'

PROPOSED CROSSING LAYOUT

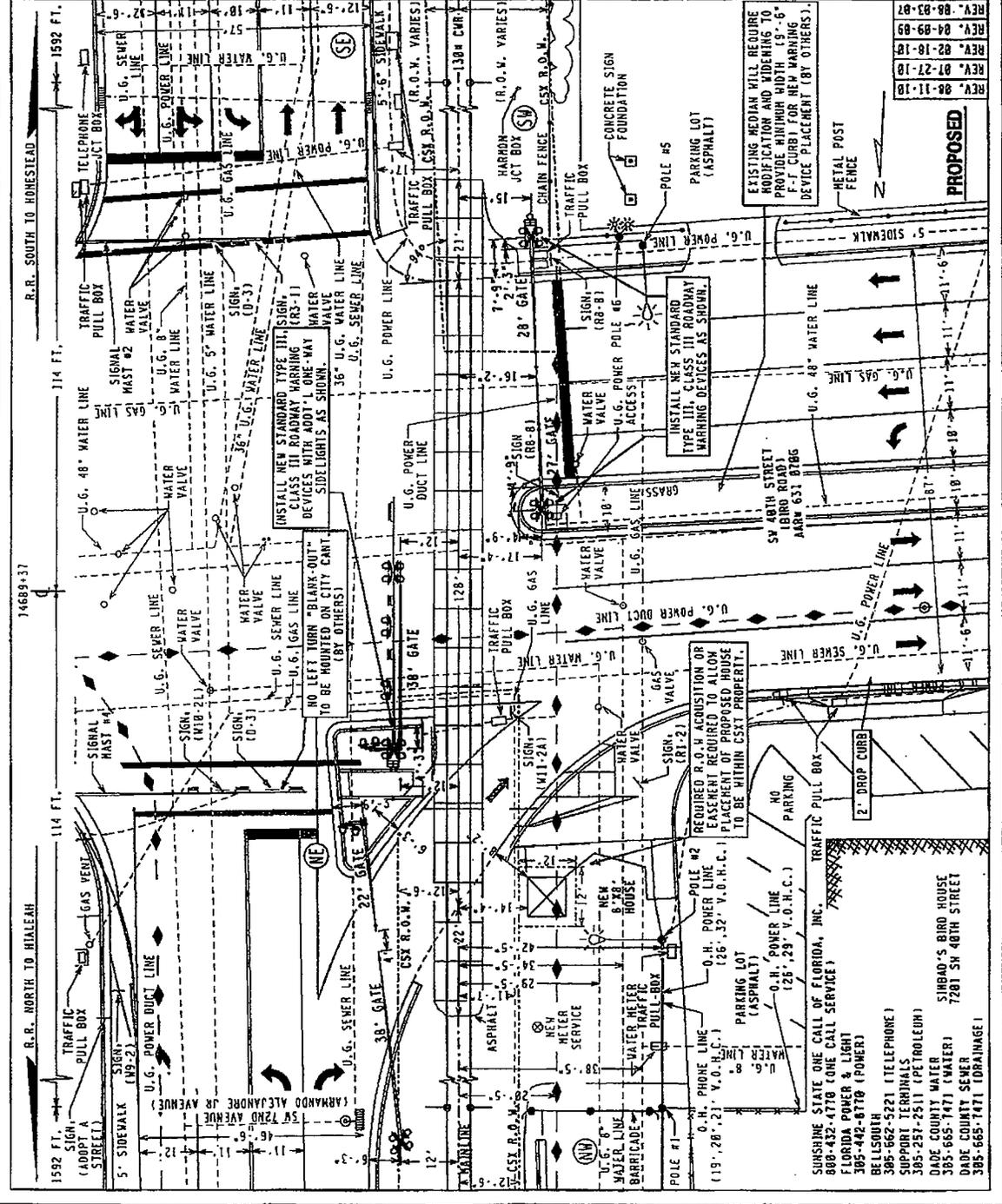
GSX ENGINEERING
 RAIL TRANSPORT GROUP ENGINEERING
 COMMUNICATIONS AND SIGNALS
 SOUTH MIAMI, (DADE), FL
 SW 40TH STREET (BIRD ROAD)
 AAR# 631 8706
 OPH #SH-44-21

SOUTHERN REGION/JACKSONVILLE DIVISION/HOMESTEAD SUBDIVISION
 FILE # SH4421.H01
 SHEET # 11-28-05

SCALE 1" = 20'

DATE 11-28-05

XORAIL
 KORAIL
 7235 BONNEVAL ROAD
 JACKSONVILLE, FL 32256
 FL280311 / CS50618732 / CSD0719203



REV. 08-11-10	REV. 07-27-10	REV. 02-16-09	REV. 04-09-09	REV. 08-03-07
PROPOSED				

EXISTING MEDIAN WILL REQUIRE MODIFICATION AND WIDENING TO PROVIDE MINIMUM WIDTH (3'-6" CLEAR FOR TRUCKS) AND DEVICE PLACEMENT (BY OTHERS).

METAL POST FENCE

INSTALL NEW STANDARD TYPE III, CLASS III ROADWAY WARNING DEVICES AS SHOWN.

REQUIRED R.O.W. ACQUISITION OR EASEMENT REQUIRED TO ALLOW PLACEMENT OF PROPOSED HOUSE TO BE WITHIN CSJ PROPERTY.

NO LEFT TURN "BLANK-OUT" DEVICES WITH V.O.H.C. SIDELIGHTS AS SHOWN.

NO LEFT TURN "BLANK-OUT" DEVICES WITH V.O.H.C. SIDELIGHTS AS SHOWN.

REQUIRED R.O.W. ACQUISITION OR EASEMENT REQUIRED TO ALLOW PLACEMENT OF PROPOSED HOUSE TO BE WITHIN CSJ PROPERTY.

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