

October 5, 2018

TO: Mayor Teresa Jacobs and the Board of County Commissioners

FROM: Mark V. Massaro, P. E., Director, Public Works Department

CONTACT PERSON: Christine Lofye, P.E., Manager Traffic Engineering Division PHONE NUMBER: (407) 836-7890

SUBJ: Railroad Reimbursement Agreement between Florida Department of Transportation, Florida Central Railroad Company, Inc., and Orange County for Traffic Control Improvements at the Florida Central Railroad Company Grade Crossing on Vulcan Road at RR Crossing No. 625278-G.

Submitted for approval and execution is a tripartite agreement between the Florida Department of Transportation, Florida Central Railroad Company, Inc., and Orange County to upgrade from cross bucks to flashing lights and gates, Constant Warning Time, a remote, and signal cabinet on Vulcan Road, at RR Crossing No. 625278-G. The improvements, to be performed by Florida Central Railroad, will be funded by the Florida Department of Transportation at an estimated cost of \$191,816.00. Orange County agrees to pay one-half of the annual cost to maintain the railroad signals, as well as install and maintain pavement markings and advance warning signs for both approaches to the crossing. The County's portion of the total annual cost of this project is currently scheduled at \$1,800.

Staff recommends approval and execution of the Railroad Reimbursement Agreement and Resolution for traffic control improvements.

Action Requested:

Approval and execution of (1) State of Florida Department of Transportation Railroad Reimbursement Agreement Grade Crossing Traffic Control Devices - County Financial Project No. 44236115701 by and between the State of Florida Department of Transportation, Florida Central Railroad Company, Inc. and Orange County for RR Crossing No. 625278-G and (2) State of Florida Department of Transportation County Resolution Grade Crossing Traffic Control Devices and Future Responsibility Financial Project No. 44236115701. District 2.

MVM/CNL/nad

Attachments

APPROVED BY ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS

BCC Mtg. Date: October 30, 2018

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION RAIL ROAD REIMBURSEMENT AGREEMENT GRADE CROSSING TRAFFIC CONTROL DEVICES - COUNTY

725-090-27 RAIL OGC - 06/17

FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER	COUNTY NAME	PARCEL & R/W NUMBER	FAP NUMBER					
44236115701	VULCAN ROAD	ORANGE	1(75000-SIGG)	D519-002-B					
THIS AGREEMENT,	made and entered into this	10th day of	JANUARY	, 2019					
by and between the STATE C	OF FLORIDA DEPARTMEN	T OF TRANSPORT	ATION, hereinafter called	the					
DEPARTMENT, and FLOR	DA CENTRAL RAILROAD	COMPANY, INC.		,					
a corporation organized and e	existing under the laws of F	LORIDA							
with its principal place of business in the City of APOPKA , County of ORANGE									
State of FLORIDA	, hereinafter called	the COMPANY; an	d ORANGE	· · · · · · · · · · · · · · · · · · ·					
County, a Charter County and	political subdivision of the	State of Florida, acti	ng by and through its Boa	rd of					
County Commissioners, herei	nafter called the COUNTY.								
3	MTIW	NESSETH:		3					
WHEREAS, the DEP/	ARTMENT is constructing, re	econstructing or othe	erwise changing a portion	of the Public Road					
System, designated by the Fin	nancial Project ID 442361-	1-57-01	~ <u>.</u>	······································					
on VULCAN ROAD		<u></u>	which crosses at grade th	e right of way and					
tracks of the COMPANY'S Mil	•								
FDOT/AAR Crossing Number		, at or near <u>A</u>	14						
as shown on DEPARTMENT'S	S Plan Sheet No. 509-100 8	, atta	ached hereto as a part her	reof; and					
NOW, THEREFORE,	in consideration of the mutu	al undertakings as h	nerein set forth, the parties	hereto agree					
as follows:									
1. The COMPAN	NY shall furnish the necessa	ry materials and ins	tall Automatic Grade Cros	sing Signals					
Type III Class	ill and/or other tra	affic control devices a	at said location on an actu	al cost basis					
and in accordance with (1) the	attached detailed statemen	t of the work, plans,	and specifications; and (2) the					
DEPARTMENT'S Standard Pl	ans, Index 509-070 attached	d hereto and made a	a part hereof.						
2. After installat	ion of said signals is comple	ted, fifty (50%)	percent of the exp	pense thereof in					
maintaining the same shall be	borne by the COUNTY and	fifty (50%)	percent shall be bor	ne by the					
COMPANY, as enumerated b	y the Schedule of Annual Co	ost of Automatic Hig	hway Grade Crossing Dev	vices attached					
hereto and by this reference r	nade a part hereof and subj	ect to future revision	upon agreement by all pa	rties.					
3. After said sig	nals have been installed and	found to be in satis	factory working order by t	he DEPARTMENT					
and COMPANY hereto, the sa	ame shall be immediately pu	t into service, opera	ted and maintained by the	COMPANY so					
long as said COMPANY or its	successors or assigns shall	l operate the said sig	gnals at said grade crossir	g; 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 whic									
·			9 () () () () () () () () () (

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 COUNTY 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 the COUNTY shall use reasonable efforts to continually maintain such signs and pavement markings 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 <u>191,816.00</u>. 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:
 - 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 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.

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.

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.

19. 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 lis^t.

20. 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.

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

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

22. The COMPANY covenants and agrees that it will indemnify and hold harmless the DEPARTMENT and COUNTY all of the DEPARTMENT'S and COUNTY'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 COUNTY 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 COUNTY or any of its respective officers, agents, or employees.

23. COMPANY shall:

 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.

24. 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.

25. 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 in Leon County, Florida.

26. The parties agree to bear their own attorney's fees and costs with respect to this Agreement.

27. The parties agree that this Agreement is binding on the parties, their heirs-at-law, and their assigns and successors in interest as evidenced by their signatures and lawful executions below.

28. 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.

29. Paragraphs 2, 3, 4 and 22 were modified, prior to execution by all parties, at the request of Orange County.

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: Director of Transportation Operations) COMPANY: FLORIDA CENTRAL RAILROAD COMPANY, INC. BY: (TITI) COUNTY, FLORIDA ORANGE BY: (TITLE County Administrator Approved as to Funds Approved as to FAPG Legal Review Available Requirements BY: BY: BY: Date Attorney **Comptroller - DOT** Date **FHWA**)ate

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

725-090-41 RAIL OGC - 07/16

A. FDOT/AAR XING NO.: 625278-G RR MILE POST TIE: ST-805.36	FINANCIAL PROJECT NO.	ROAD NAME OR NUMBER COUNTY NAME PARCEL & R/W NU				ER FAP NUMBER		
A. FDOT/AAR XING NO.: 625278-G RR MILE POST TIE: ST-805.36 B. TYPE SIGNALS PROPOSED III CLASS III DOT INDEX: 509-070 SCHEDULE OF ANNUAL COST OF AUTOMATIC HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES Annual Maintenance Cost Exclusive of Installation CLASS DESCRIPTION CQST* I 2-Quadrant Flashing Lights with One Track \$2,386.00 III 2-Quadrant Flashing Lights with Multiple Tracks \$3,158.00 III 2-Quadrant Flashing Lights and Gates with One Track \$3,600.00 IV 2-Quadrant Flashing Lights and Gates with Multiple Tracks \$4,520.00 V 3 or 4-Quadrant Flashing Lights and Gates with One Track \$7,116.00	44236115701	VULCAN ROAD ORANGE 🕅 1(75000-SIGO						
A. FDOT/AAR XING NO.: 625278-G RR MILE POST TIE: ST-805.36 B. TYPE SIGNALS PROPOSED III CLASS III DOT INDEX: 509-070 SCHEDULE OF ANNUAL COST OF AUTOMATIC HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES Annual Maintenance Cost Exclusive of Installation CLASS DESCRIPTION COST I 2-Quadrant Flashing Lights with One Track \$2,386.00 II 2-Quadrant Flashing Lights with Multiple Tracks \$3,158.00 (II) 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		• • • • • • • • • • • • • • • • • • • •	· · ·					
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SCHEDULE OF ANNUAL COST OF AUTOMATIC HIGHWAY GRADE CROSSING TRAFFIC CONTROL DEVICES Annual Maintenance Cost Exclusive of Installation CLASS DESCRIPTION COST* I 2-Quadrant Flashing Lights with One Track \$2,386.00 II 2-Quadrant Flashing Lights with Multiple Tracks \$3,158.00 III 2-Quadrant Flashing Lights and Gates with One Track \$3,600.00 IV 2-Quadrant Flashing Lights and Gates with Multiple Tracks \$4,520.00 V 3 or 4-Quadrant Flashing Lights and Gates with One Track \$7,116.00	A. FDOT/AAR XING NO.:	625278-G	I	RR N	IILE POST TIE: ST-80	5.36		
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V 3 or 4-Quadrant Flashing Lights and Gates with One Track \$7,116.00		2-Quadrant Flashing Lights and Gates with One Track						
	IV	2-Quadrant Flashing Light	ultiple Tracks \$4,8	\$4,520.00				
VI 3 or 4-Quadrant Flashing Lights and Gates with Multiple Tracks \$8,930.00	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.

(R/W JOB75500-XNGC) PARCEL Orange County Public Works Roads & Day Roads & Drainage Division STATE ROAD NO. Vulcan Road 52.78G Orange County, Florida | COUNTY Orange

April 4, 2017

Florida Central Railroad Company, Inc. 3001 W. Orange Ave. Apopka, Florida 32703 Attention: Ms. Karen Kuivinen Manager of Real Estate and Contracts

RE: Railroad Crossing at Vulcan Road DOT #625278G MP ST 805.2 Orange County, Florida

Dear Ms. Kuivinen:

This letter will confirm that the captioned railroad crossing is, according to a search of the Public Records of Orange County, Florida, a public right of way and maintained as such by Orange County, Florida as part of Vulcan Road. It is our understanding that pursuant to this letter you will cause the captioned railroad crossing to be officially registered with the Federal Railroad Administration as a public crossing. Please confirm the foregoing registration for our records. Your cooperation is appreciated and thank you.

George & Shupp Assistant Project Manager Orange County Public Works Roads & Drainage Division Orange County, Florida

Acknowledged:

4/3/17

Thomas C. Owen, President Florida Central Railroad Company Inc.

Crossing Name	FDOT	Scope Of Work	Prid \$77 750.1
Emerald Rd (Ocala) FN	DOT# 627225P	Material, labor, expenses and equipment to replace and install (2) new gate mechanisms and replace SCX with PMD-3. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, and all other miscellaneous materials to complete the new signal system.	577 750.1
Oak Rd. (Ocała)	DOT# 627226W	Material, labor, expenses and equipment to replace SCK with PMD-3. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, and all other miscellaneous materials to complete the new signal system.	\$42,572 4
S. Mt. Homer Rd. (Tavares)	DOT# 622004V	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LEO light units and pole mounted belis. Price includes a new factory wired shelter using a XP-4 for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail books, track connection kits, as meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.
CR-452/Lake Dora Dr. (Tavares)	DOT# 621998L	Material, labor, expenses and equipment to install (3) new flasher and gate type signals equipped with 12° LED light units and pole mounted bells and (3) Ped gates. Price includes a new factory wired shelter using a XP-4 with remote for train datection equipment. Price includes all required field materials consisting of the cable, conduity, all book, track connection luits, ar meter service and all other miscellaneous materials to complete the new signal system.	\$294,970.
West Ponkan Rd. (Apooka)	DOT# 625240K	Material, labor, espenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes an new factory wired shelter using a XD*4 for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail books, track connection kiu, as meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.
Bethuric Ave. (Winter Garden)	DOT# 621887U	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 127 LED light units and note mounted bells. Prior includes a new factory wired shelter using T-Boss with remote for train detection equipment and [1] pedestrian gate. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, at meter service and all other miscellaneous materials to complete the new signal system. Reuse existing short concrete power pole.	\$184,275.
SR-438/W. Silverstar (Winter Garden)	DOT# 621879C	Material, labor, expenses and equipment to install new flasher and grie type signals equipped with 12° LED light units and sole mounted bells. Price includes a new factory wired shelter using an PMO- 3 for train detection equipment. Price to include one puedestrian gate. Price includes all required field materials consisting of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscellaneous materials to complete the new signal system. Includes removal of existing (2) cantilevers.	\$200,466.1
Gilliam Rd. (Winter Garden)	DOT# 6218615	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° ED light units and pole mounted bells. Price includes a new factory wired shelter using a PMD-3 with shurt enhancer for irain detection exujament. Price includes all required field materials consisting of the cable, conduits, rai bonds, track connection luis, ac meter service and all other miscellaneous materials to complete the new signal system.	\$178,907.0
W. 4th St. (Accopka)	DOT# 625266M	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with Material, labor, expenses and equipment to install new flasher and gate type signals equipped with for rain detection equipment. Prize includes all required field materials consisting of the cable, conduits, rail books, track romection kits, as meter service and all other miscellaneous materials to complete the new signal system.	\$181,815.2
E. 8th St. (Apopka)	DOT# 62527U	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells. Price includes a new factory wired shetter using XP-4 for train detection equipment. Price includes (2) pad gates and all required field materials consisting of the cable, conduits, rail bonds, trade connection kits, as meter service and all other muscilaneous materials to complete the new signal system. Remove existing Bh St. equipment from the nearby Orange Trail bungalow.	\$243,970.5
S. Highland Ave. (Apopka)	DOT# 625273X	Material, labor, expenses and equipment to install new flasher and gate type signals equipped with 12" LED light units and pole mounted balls. Price includes a new factory wired shelter using XP-4 for train detection equipment. Price includes all required field materials consisting of the cable, conduits, rail bonds, srack connection kits, ac meter service and all other miscellaneous materials to complete the new signal system.	\$191,815.2
Angenese (register)	00006352503	Hence the latent account of the property of the state of	
US-441/Crange Blossom (Orlando)	DOT# 622365A	Material, labor, expenses and equipment to remove and replace (2) cantilevers with (2) new cantilevers equipped with 12° LED light units. Price to iunclude (1) pedestrian gate equipped. Price includes all required field materials consisting of the cable, conduits, as meter service and all other miscellaneous materials to complete the new signal system. Price to include upgrding of existing abelf relays to plag in relays.	\$187,522.9
W. New Hampshire St. (Orlando)	DOT# 622360R	Material, labor, expenses and equipment to install new flasher and gate type signab equipped with 127 LED light units and pole mounted bells. Price includes a new factory wired shelter using T-Boss with remote for train detection equipment. Price includes all required field materials constraing of the cable, conduits, rail bonds, track connection kits, ac meter service and all other miscelaneous materials to complete the new signal system. Add sidelights and new curb in S.W. quad.	\$177,888.5
WW 1st St (Newberry)	DOT# 622497K	Material, Labor, expenses and equipment to install new flasher and gate type signals equipped with 12° LED light units and pole mounted bells with side lights. Price includes a new factory wred shelter using a FMD-3 with remote for train detection equipment. Price includes all required field materials consisting of the cable, conduits rai bonds, track connection kits, ac meter service and all other miscellaneous naterials to complete the new signal system.	\$177,134.0



\$2,470,564.00

PRIVATE HWY	e Roadway:	AT GRADE			Apopka	NEAR CITY OF	PEN-TRACK		-
Rank 2016:	SR No.:	TH OIVIDE		RR Com		FCEN	Date: 03/21/	0017	
Rank 2015: 4756			Division			Team Member	Date: 03/21/2017		
Rank 2014:	US No .:		5	Subdivision Name: ORLAND		realitimetribers.			
Latitude: 28.640200 Branch			Branch N	h Name: ST 830 Ganey					
Longitude: -81.470000 RR Mil Field Review Comments: Upgrade from XB's to FL&G's					post:	805.36	lacono		
Field Review Comments: Upgrade from XB's to FL&G's FCEN has documentation that this is a PUBLIC (not Private)crossing.							Regalado		
]		
Team Recommendations	s: 2- FL&G's, CV	VT, remote, a cab	oinet, cable, co	onduit & p	bower				
Highway Speed:		35			Train Speed Ran	ne.	5-25	1-11	
Crossing Angle:		60-90 DEG			Max Time Table S	-	25	H	
AADT:							0/2		
Percent Trucks:		()			Day Thru/Switch:		0/2	H	-
		0 (2009)			Night Thru/Switch		0/0		
School Buses:	Tu	0 (2013) o-Way Street			Train Service: Fr Passenger Count		0		
Street Types:		2					10/17/2011		
Thru Lanes: Aux Lanes:		0			Train Count Date	•	10/1//2011		
Hazmat Route?		YES			Main Tracks:		1		den h
Emergency Services F	oute?	NO			Other Tracks:				
		NO			Train Signals?		NO		
Emergency Notification	n Signs:	2			Train Signal Prox	imity.	NO		
Crossbuck(4x4 post):		2			Train Detection:	integr.	None		
Crossbuck Sign:		2			Event Recorder?				
Stop Sign:		0					0	井井	
Yield Sign:	0:	0			Number of Bells:		0		
Low Ground Clearance	e Signs:	U			Post Mounted Fla	shing Lights:	U		
Exempt Signs:		VEO			Deadway Cate C		0		
Trespass Signs: W10-1 0	D10 0- [YES	W8-1		Roadway Gate Co		Ŭ		
	R10-6a	0			Pedestrian Gate (Jount:			
	R11-2	0	W10-8		Gates:		0		
W10-3 0	R15-2P	0	W10-9	0	Cantilevered Flas	hing Over Traffic:	0		
W10-4 0	R15-6	0	W10-9P	0	Contilouorod Elas	hing Nat Over Tre	ffic: 0		
W10-11 0	R15-6a	0	W10-11a	0 1	Intersecting Road	hing Not Over Tra	NO	IH	
W10-12 0	R15-7	0	W10-11b	0	_	way:			
R3-1a 0	R15-7a	0	W10-13P	U	Signalized?	N-1 1-1-	NO	내님	
R3-2a 0	R15-8	0	W10-14P	0	Interconnection:		erconnected		
R8-8 0	Pvt Crossing	0	W10-14aP	0	Traffic Signals Co	ontrolling?			
R8-9 0	Look Out	0	W10-15P	0	Preemption:				
R8-10 0 R8	-8 w/Beacon	0	Slow	0	Traffic Pre-Signal	s?	NO		
R8-10a 0	W3-1		1w/Beacon		8" Count:		0		
R10-6 0	W3-3		-	0	12" Count:		0		
			LED Signs		LED Count:		0		1.0
Surface Installment Da	te:				Install - Upgrade:				
Surface Type:		CONCRET			Maintenance Res	ponsibility:	COUNTY		
Pvmt Mrk:		NON			Roadway Paved:		YES		
Surface Condition:					Tracks run down		NO		
Approach:	LOS	= Minor erosic	on 🗌 🔄	A			NO		
/ehicle Reaction:	LC	DS D = Bouncir			Sidewalks on Cro			1H	
Driver Reaction: L	OS C = Most d	rivers slow dow		10 million (1990)	Sidewalks Thru C		NO		
Rail/Pad Movement:		LOS B = Uneve	en 🗆		Crossing illuminat		NO		
ncident History: 04/20					Commerical Powe		YES		
					Alternative Power	?	NO		



0LD # 17881



060 # 17882



0LD # 17882





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060# 17882