

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2017	2018	2019	2020	2021
Capital Expenditures	\$193,376	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$193,376	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)					

Budget Account No:

Fund 3500 Dept 361 Unit 2270-107 Object 4607

Recommended Sources of Funds/Summary of Fiscal Impact:

Transportation Improvement Fund
 Railroad Crossing Maintenance
 SW 18th Street at SFRTA/FDOT Railroad

Construction Cost	\$192,875.96
Staff Costs -	
Roadway Production	\$ 500.00
Fiscal Impact	\$193,375.96

C. Departmental Fiscal Review:

Alicia Korolainen

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

[Signature]
 OFMB
 3/13

[Signature] 3/20/17
 Contract Dev. and Control

B. Approved as to Form and Legal Sufficiency:

Paul F. [Signature] 3/21/17
 Assistant County Attorney

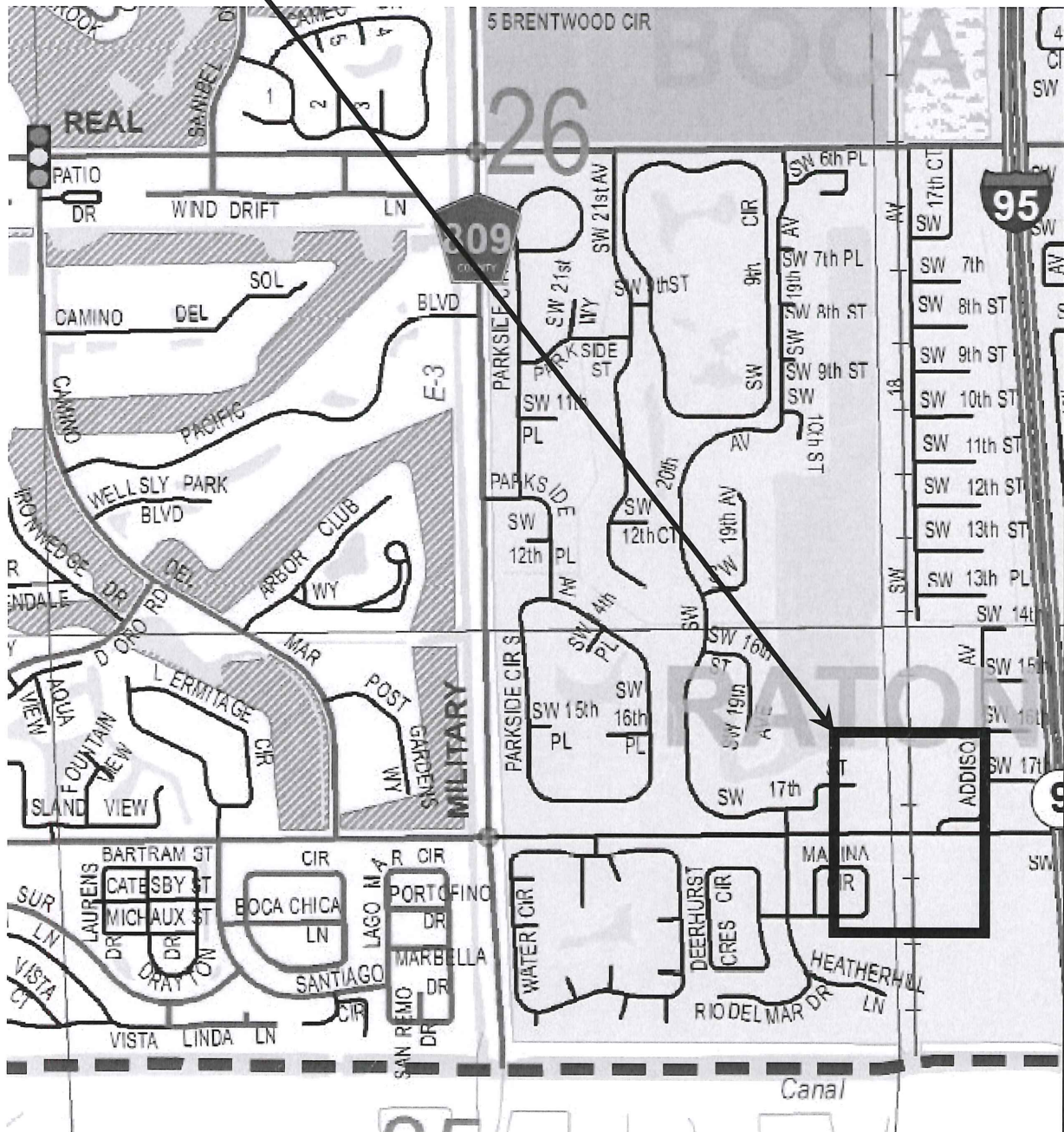
C. Other Department Review:

 Department Director

This summary is not to be used as a basis for payment.

SW 18th STREET RAILROAD CROSSING

FDOT/AAR CROSSING NUMBER 631210G



LOCATION SKETCH

**AGREEMENT BETWEEN THE CITY OF BOCA RATON AND
PALM BEACH COUNTY, FLORIDA
FOR
FUNDING OF IMPROVEMENTS TO THE SOUTH FLORIDA REGIONAL
TRANSPORTATION AUTHORITY RAILROAD CROSSING AT SW 18TH STREET,
CROSSING NUMBER 631210-G, AND THE TRANSFER OF MAINTENANCE
OBLIGATIONS FOR THE CROSSING**

THIS AGREEMENT, is made and entered into this _____ day of _____, 201____ by and between Palm Beach County, a political subdivision in the State of Florida, ("COUNTY") and the City of Boca Raton, a municipal corporation of the State of Florida ("CITY").

WITNESSETH:

WHEREAS, the COUNTY currently holds the railroad license maintenance agreement for the South Florida Regional Transportation Authority (SFRTA)/Florida Department of Transportation (FDOT) railroad crossing at SW 18th Street, Crossing Number 631210-G, (hereinafter, "CROSSING"); and

WHEREAS, the license maintenance agreement is with FDOT and the CSX Transportation, Inc. (CSX) who at that time were responsible for maintenance of the CROSSING; and

WHEREAS, SFRTA has now assumed the maintenance responsibility of the CROSSING; and

WHEREAS, in April of 2005, the COUNTY transferred all jurisdiction, control, title and interest for SW 18th Street from Military Trail to SW 12th Avenue to the CITY, which included the CROSSING but excluded the I-95 overpass right-of-way; and

WHEREAS, it is appropriate for the CITY to assume the responsibility for the cost of the improvement and maintenance at the CROSSING; and

WHEREAS, the CITY is willing to accept a transfer of the responsibilities of the CROSSING maintenance by executing a Railroad Reimbursement Agreement with SFRTA and FDOT, thereby assuming the future maintenance obligations for the CROSSING; and

WHEREAS, the CITY has requested the COUNTY participate in a onetime joint funding of needed improvements to bring the CROSSING up to current standards (hereinafter, "IMPROVEMENTS") prior to accepting the transfer of the maintenance obligations for the CROSSING; and

WHEREAS, SFRTA will be responsible for the construction of the IMPROVEMENTS; and

WHEREAS, Section 163.01 of the Florida Statutes allows governmental units to make the most efficient use of their powers by enabling them to cooperate with other localities on a basis of mutual advantage and thereby provide services and facilities that will harmonize geographic,

economic, population and other factors influencing the needs and development of local communities; and

WHEREAS, both the COUNTY and the CITY (hereinafter, the “PARTIES”) declare it to be in the public interest that the IMPROVEMENTS be constructed and the future maintenance obligations for the CROSSING be transferred from the COUNTY to the CITY.

NOW, THEREFORE, for and in consideration of the mutual covenants contained herein, the PARTIES agree as follows:

1. RECITALS

The above recitals are true and correct and are incorporated herein.

2. PURPOSE

The purpose of this license maintenance agreement is to specify the PARTIES’ respective roles and obligations regarding funding and maintenance of the CROSSING.

3. COST ESTIMATE

The SFRTA/FDOT has provided an estimated cost of Three Hundred Eighty Five Thousand, Seven Hundred Fifty One Dollars and 91 cents (\$385,751.91) for the IMPROVEMENTS, as shown on attached Exhibit “A”. The PARTIES hereby agree to each pay for 50% of the cost of the IMPROVEMENTS.

4. MAINTENANCE RESPONSIBILITY

The CITY will execute a Railroad Reimbursement Agreement with the SFRTA and FDOT prior to the IMPROVEMENTS being constructed and shall be responsible for all future maintenance obligations for the CROSSING. Such Railroad Reimbursement Agreement shall replace the existing license maintenance agreement between the COUNTY and FDOT and the CSX.

5. COMPENSATION AND PAYMENT

A. The SFRTA/FDOT will submit the invoice for the IMPROVEMENTS directly to the CITY upon completion of the work.

B. The PARTIES agree to each pay for 50% of the total costs for the IMPROVEMENTS in accordance with the terms of the new license maintenance agreement with the CITY.

C. Any cost overruns for the IMPROVEMENTS in excess of the cost estimate, Exhibit “A” will be shared equally between the PARTIES.

D. Upon receipt of the final invoice from the SFRTA/FDOT for the IMPROVEMENTS, the CITY will request payment from the COUNTY for 50% of the total costs. COUNTY agrees to reimburse the CITY within 60 days of receipt of payment request.

E. Upon receipt of the COUNTY funds the CITY will transmit payment to the SFRTA/FDOT.

6. TERMINATION AND DEFAULT

This agreement will terminate upon the date of final payment to the SFRTA for the IMPROVEMENTS.

7. NOTICES

Any and all notices required or permitted hereunder shall be by Certified Mail, return receipt requested.

To the CITY: City of Boca Raton
 Attn: Leif J. Ahnell, C.P.A., C.G.F.O., City Manager
 201 West Palmetto Park Road
 Boca Raton, FL 33432
 Copies to: Dan Grippo, P.E. Municipal Services Director and
 Diana Grub Frieser, City Attorney

To the COUNTY: Palm Beach County Engineering Department
 P.O. Box 21229
 West Palm Beach, FL 33416-1229
 Attn: Tanya McConnell, P.E., Deputy County Engineer
 Copy to: Marlene Everitt, Snr. Assistant County Attorney

8 THIRD PARTY BENEFICIARY

No provision contained herein is intended to, or shall be construed to, create any third party beneficiary or to provide any rights to any person or entity not a party to this agreement, including but not limited to any citizen or employees of the COUNTY and/or CITY.

9. LIABILITY

The COUNTY shall not be obligated or liable hereunder to any party other than the CITY.

10. LEGAL FEES

The PARTIES shall bear their own costs or expenses, including reasonable attorney's fees, associated with the enforcement of the terms and conditions of this agreement.

11. CONTRACTUAL RELATIONSHIP

The PARTIES are and shall be, in the performance of all work, services and activities under this agreement independent contractors and not employees, agents or servants of the other PARTY. All COUNTY employees engaged in the work or services performed pursuant to this agreement shall at all times, and in all places, be subject to COUNTY's sole direction, supervision, and control. All CITY employees engaged in the work or services performed pursuant to this agreement shall at all times, and in all places, be subject to the CITY's sole direction, supervision, and control. The PARTIES shall exercise control over the means and manner in which it and its employees perform the work, and in all respects the PARTIES' relationship and the relationship of its employees to the other PARTY shall be that of an independent contractor and not as employees or agents of the other. The PARTIES do not have the power or authority to bind each other in any promise, agreement or representation without the prior written consent of the other PARTY.

12. WAIVER

Any waiver by either PARTY of its rights with respect to a default under this agreement, or with respect to any other matters arising in connection with this agreement, shall not be deemed a waiver with respect to any subsequent default or other matter. The failure of either PARTY to enforce strict performance by the other PARTY of any of the provisions of this agreement or to exercise any rights under this agreement shall not be construed as a waiver or relinquishment to any extent of such PARTY's right to assert or rely upon any such provisions or rights in that or any other instance.

13. LEGAL COMPLIANCE

The PARTIES shall abide by all applicable federal, State and local laws, orders, rules and regulations when performing under this agreement. The PARTIES further agree to the inclusion of this provision in all subcontracts issued as a result of this agreement.

14. WAIVER OF JURY TRIAL

The PARTIES hereby waive any rights either of them may have to a jury trial in any litigation arising out of or related to this agreement and agree that they shall not elect a trial by jury. The PARTIES hereto have separately, knowingly and voluntarily given this waiver of right to trial by jury with the benefit of competent legal counsel.

15. VENUE

This agreement shall be construed and governed by the laws of the State of Florida. Venue for any and all legal action necessary to enforce this agreement shall be Palm Beach County. No remedy conferred upon the PARTIES by this agreement is intended to be exclusive of any other remedy existing at law, in equity or otherwise. No single or partial exercise by either PARTY of any right, power or remedy hereunder shall preclude any other or further exercise thereof.

16. PREPARATION

Preparation of this agreement was a joint effort of the PARTIES and should not be construed more severely against one PARTY than the other.

17. AMENDMENTS

Except as expressly permitted herein to the contrary, no modification, amendment or alteration in the terms or conditions contained herein shall be effective unless agreed to by the PARTIES in writing and executed in the same manner as was this agreement.

18. NON-DISCRIMINATION

The PARTIES agree that no person shall be excluded on the grounds of race, color, sex, age, national origin, disability, religion, ancestry, marital status, familial status, sexual orientation, gender identity and expression, or genetic information from the benefits of or be subjected to any form of discrimination under any activity carried out by the performance of this agreement.

19. SEVERABILITY

In the event any provision hereof is held invalid by a court of competent jurisdiction, the remaining portions of the agreement shall remain in full force and effect.

20. LIABILITY

Neither PARTY shall be deemed to assume any liability for the negligent or wrongful acts or omissions of the other PARTY. Nothing contained herein shall be construed as a waiver or expansion by either PARTY of the liability limits established in Section 768.28 of the Florida Statutes. Liability for injury to personnel and the loss or damage of equipment shall be borne by the PARTY employing such personnel or owning such equipment.

(i). In the event a claim or lawsuit is brought against the COUNTY, its officers, employees, servants, consultants or agents, the CITY agrees, without waiver or expansion of the limitations contained in Section 768.28, Florida Statutes, and to the extent permitted by law, to indemnify and hold harmless the COUNTY, its officers, employees, servants, consultants and agents from and against any such claims, losses, demands, damages, liabilities or causes of action of whatsoever kind or nature that the COUNTY, its officers, employees, servants, consultants or agents may or could sustain arising out of any act, omission or fault of the CITY in conjunction with its performance under this agreement.

(ii). In the event a claim or lawsuit is brought against the CITY, its officers, employees, servants, or agents, the COUNTY agrees, without waiver for expansion of the limitations contained in Section 768.28, Florida Statutes and to the extent permitted by law, to indemnify and hold harmless the CITY, its officers, employees, servants, consultants or agents from and against any claims, losses, demands, damages, liabilities or causes of action of whatsoever kind or nature that the CITY, its officers, employees, servants, consultants or agents may or could

sustain arising out of any act, omission or fault of the COUNTY in conjunction with its performance under this agreement.

21. ENTIRE UNDERSTANDING

This agreement represents the entire understanding of the PARTIES and supersedes all other negotiations, representations or agreements, written or oral, relating to this agreement.

22. EFFECTIVE DATE

This agreement shall be effective upon execution by the PARTIES and shall continue in effect and be binding on the parties until the completion of the IMPROVEMENTS.

23. RECORDS

The PARTIES shall maintain books, records, and documents to justify all charges, expenses and costs incurred or paid by them under this agreement in performance of the term of this agreement, in accordance with Generally Accepted Accounting Principles (GAAP), as promulgated by the Government Finance Officers Association from time to time. The PARTIES shall have access to all books, records, and documents as required in this agreement, and for at least three (3) years after completion of the IMPROVEMENTS.

24. INSPECTOR GENERAL

The COUNTY has established the Office of the Inspector General in Palm Beach County Code, Section 2-421 - 2-440, as may be amended. The Inspector General's authority includes but is not limited to the power to review past, present and proposed COUNTY contracts, transactions, accounts and records, to require the production of records, and to audit, investigate, monitor, and inspect the activities of the CITY, its officers, agents, employees, and lobbyists in order to ensure compliance with contract requirements and detect corruption and fraud. Failure to cooperate with the Inspector General or interfering with or impeding any investigation shall be in violation of Palm Beach County Code, Section 2-421 - 2-440, and punished pursuant to Section 125.69, Florida Statutes, in the same manner as a second degree misdemeanor provided such Local Government is a special district that has previously and by separate written instrument agreed to be subject to said Inspector General's authority or is a municipality.

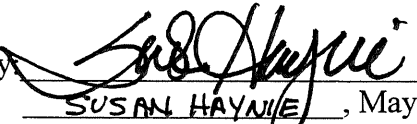
[SIGNATURES ON NEXT PAGE]

INTERLOCAL AGREEMENT WITH THE CITY OF BOCA RATON.

IN WITNESS WHEREOF, the PARTIES hereto have set their hands and seals on the day and date first written above.

CITY OF BOCA RATON

PALM BEACH COUNTY, BY ITS BOARD OF COUNTY COMMISSIONERS

By: 
SUSAN HAYNIE, Mayor

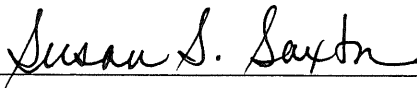
By: _____

ATTEST:

ATTEST:

CITY CLERK

SHARON R. BOCK
CLERK & COMPTROLLER

By: 

By: _____
(Deputy Clerk)

(DATE) 11/23/2016

(DATE)

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By: 
for City Attorney

By: _____
Assistant County Attorney

APPROVED AS TO TERMS AND CONDITIONS

By: 
Division Director
745

VTMI



CONTRACT AMENDMENT NO.

Contract No. 14-012
Amendment No. TBD
Project: Maintenance of Way ("MOW") Services
Contractor: VTMI
Contractor Ref No: 024

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

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

SFRTA requires the services of VTMI to perform grade crossing improvements on SW 18th St. in Palm Beach County which have been requested by FDOT and the City of Boca Raton. VTMI shall provide all necessary labor, equipment and materials to perform the following:

Re-construct the existing Highway Grade Crossing (631210G) SW 18th St per FDOT Standard Index No.560 (the "Grade Crossing"). Work shall include rail replacement, installation of concrete crossing surface, asphalt base and subgrade within the area of the crossing

Change:

- A. VTMI shall perform a survey of the jobsite
- B. VTMI shall provide the necessary maintenance of traffic plan per the latest FDOT Standards.
- C. VTMI shall provide police protection as required by FDOT, Palm Beach County, and/or the City of Boca Raton.
- D. VTMI shall procure all materials necessary for the installation of the new Grade Crossing and shall deliver all material to the jobsite.
- E. VTMI shall remove and dispose of all the existing Grade Crossing material including existing timber and concrete ties and also the asphalt material around the crossing.

- F. VTMI shall install 160 linear track feet of 136 pound rail through the new Grade Crossing.
- G. VTMI shall install 4 115lb to 136lb transition rails at the new Grade Crossing
- H. VTMI shall install the necessary 10 foot timber ties and corresponding tie plates through the new Grade Crossing.
- I. VTMI shall install the necessary 8'-6" ties for surfacing of the new grade crossing.
- J. VTMI shall install No. 4 track ballast to accommodate the installation of the new Grade Crossing.
- K. VTMI shall surface and align the track as necessary to accommodate the installation of the new Grade Crossing.
- L. VTMI shall install new precast concrete crossing panels through the new Grade Crossing.
- M. VTMI shall Mill and Resurface all approaches to the Railroad Tracks to create a smooth transition of the roadway.
- N. VTMI shall prep the roadbed and shall place new asphalt pavement at the new Grade Crossing.
- O. VTMI shall re-paint all pavement markings
- P. VTMI shall cleanup project site
- Q. VTMI shall be responsible for any damage to Sidewalks, Curbs, Medians and Drainage Structures done by their construction equipment and should be repaired to pre-construction conditions at their expense.

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

Cost of Change: - \$385,751.91

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

TOTAL

\$385,751.91

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

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

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

Accepted by Procurement:

Signature: _____
Name and Title: _____
Date: _____

Accepted by Contractor:

Signature: _____
Name and Title: _____
Date: _____

Approved as to form and legal sufficiency:

Signature: _____
Name and Title: _____
Date: _____

Accepted by Project Manager:

Signature: _____
Name and Title: _____
Date: _____

Approved by SFRTA Executive Director:

Signature: _____
Name and Title: _____
Date: _____

Extra Work	024
Name	Grade Crossing Installation 631210G SW
Date	8/1/2016

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

1. Scope of Work

Re-construct the existing Highway Grade Crossing at SW 18th Street per FDOT Standard Index No. 560. Work shall include 97.5 TF of concrete crossing surface, 136lb rail, 10' timber ties, 115lb t o136lb transition rails, pandrol plates, asphalt, base and subgrade within the crossing area

Project will be billed Time & Material

Estimate valid for 90 days

Total Cost: \$ 385,751.91



Estimated Cost for Extra Work #024
Grade Crossing Installation 631210G SW 18th Street

2. Cost:
A. Management

I. Labor

Position	Work Hours	FBLC Hourly Rate	Labor Bid Total
Facility Manager	-	46.78	-
Office Manager	12.00	41.30	495.63
Materials Manager	8.00	70.48	563.82
RMIS Technician	-	30.36	-
Safety Manager	-	89.19	-
General Manager	-	107.06	-
Roadmaster	-	65.51	-
Signal Manager	24.00	65.51	1,572.16
Sr. Manager Comm. & Sig.	8.00	94.01	752.06
Signal Manager	-	63.11	-
Project Manager	68.00	94.01	6,392.68
Project Engineer	20.00	65.51	1,310.20
Field Superintendent 1	60.00	70.48	4,228.80
Field Superintendent 2	60.00	65.51	3,930.60
Management Labor Total			<u>19,245.96</u>

II. Vehicle

Description	Hours	Equip. Rate	Equip. Bid Total
Pick-up F150	196.00	\$ 18.44	3,614.24
SUV	-	13.23	-
	-	-	-
	-	-	-
Management Equipment Total			<u>3,614.24</u>

B. Track Costs

I. Labor

Position	WK HRS RE	WK HRS OT	HRLY RATE RE	HRLY RATE OT	RE TOTAL COST	OT TOTAL COST	TOTAL
RR Track Welder Helper	8.00	46.00	44.32	59.18	354.54	2,722.43	3,076.97
RR Track Foreman	-	16.00	51.41	70.24	-	1,123.84	1,123.84
Tamper Operator	-	46.00	52.83	71.96	-	3,310.03	3,310.03
Flagman	-	20.00	41.45	54.88	-	1,097.60	1,097.60
Track Inspector	-	-	51.41	70.24	-	-	-
RR Equipment Operator II	72.00	260.00	48.56	65.96	3,496.32	17,149.60	20,645.92
RR Equipment Operator I	-	60.00	47.40	64.22	-	3,853.20	3,853.20
Track Laborer/Trackman	96.00	336.00	43.35	58.16	4,161.60	19,541.76	23,703.36
RR Welder	8.00	46.00	48.50	65.87	388.00	3,030.02	3,418.02
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
Track Labor Total							60,228.94

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
F350 Hi-rail	-	\$ 32.17	-
Prentice	102.00	\$ 164.87	16,816.74
Backhoe	70.00	\$ 62.34	4,363.80
Loader 966 CAT	86.00	\$ 124.41	10,699.26
Speed swing	8.00	\$ 85.30	682.40
Swivel Dump Hi-Rail	30.00	82.85	2,485.50
Welding Van	46.00	\$ 115.24	5,301.04
Light tower	72.00	\$ 15.14	1,090.08
Pup tamper	-	\$ 210.87	-
Air Compressor	56.00	8.71	487.76
Hi-Rail crew cap	-	\$ 32.17	-
Tamper Mark 4	46.00	305.00	14,030.00
Dynamic Stabilizer	46.00	163.33	7,513.33
Regulator	46.00	\$ 176.20	8,105.20
Hi-Rail Section truck	32.00	\$ 113.67	3,637.44
Gradall	-	64.35	-
Tilt trailer	30.00	\$ 8.00	240.00
Dump truck	30.00	\$ 104.92	3,147.60
Pick-up 150	24.00	\$ 18.44	442.56
	-		-
Track Equipment Total			79,042.71

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
8'125Ft 136lb Omega Crossing panels	97.50	TF	176.00	5,700	22,860.00
7' x 9' x 8'-6" ft Wood Ties	50.00	ea	75.00		3,750.00
7' X 9' x10' ft Wood Ties	102.00	ea	106.50	2000	12,863.00
6" Pandrol Plate	204.00	ea	17.40	285	3,834.60
Galvanized Pandrol E-Clip	408.00	ea	3.73	285	1,806.84
15/16" X 6" Screw Spike	816.00	ea	1.63	285	1,615.08
Rail Anchors 115#	200.00	ea	2.15		430.00
Rail Anchors 136#		ea	2.15	285	285.00
Track Ballast No.4	250.00	ton	64.00		16,000.00
136lb Rail 80FT Standard	320.00	LF	26.84	2000	10,588.80
136lb Welding Kits Boutet	12.00	ea	128.50	280	1,822.00
Cut Spikes	4.00	keg	100.00		400.00
Transition Rails 115# to 136 #	4.00	ea	1,145.00		4,580.00
Tie Plates 115#	100.00	ea	17.50	285	2,035.00
					-
					-
Track Materials Total					82,870.32

C. Signal

I. Labor

Position	WK HRS RE	WK HRS	HRLY RATE	HRLY RATE	RE TOTAL	OT TOTAL	TOTAL
Signal Maintainer	-	104.00	52.59	72.01	-	7,489.04	7,489.04
Signal Inspector/Comm Tech	-	24.00	63.80	88.82	-	2,131.68	2,131.68
Signalman	-	60.00	52.59	72.01	-	4,320.60	4,320.60
Signal Foreman	-	30.00	58.78	81.41	-	2,442.30	2,442.30
	-	-	-	-	-	-	-
Signal Labor Total							16,383.62

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Signal truck	134.00	\$ 22.07	2,957.38
Signal Hi-Rail vehicle	30.00	\$ 33.48	1,004.40
Hi-Rail boom truck	30.00	\$ 137.61	4,128.30
Bucket Truck	-	\$ 54.48	-
Pick-up 150	24.00	\$ 18.44	442.56
	-	-	-
	-	-	-
	-	-	-
Signal Equipment Total			8,532.64

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
Erico Bonding Kits	0.25	Set	651.00	100.00	262.75
					-
					-
					-
					-
					-
Signal Materials Total					262.75



Estimated Cost for Extra Work #024
Grade Crossing Installation 631210G SW 18th Street



D. Structures Department

I. Labor

Position	WK HRS RE	WK HRS OT	HRLY RATE RE	HRLY RATE OT	RE TOTAL COST	OT TOTAL COST	TOTAL
Bridge Foreman	-	-	46.70	62.75	-	-	-
Bridge Tender	-	-	45.38	61.20	-	-	-
Bridge Laborer	-	-	42.40	56.31	-	-	-
	-	-	-	-	-	-	-
Structures Labor Total							<u>-</u>

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Utility Van	-	\$ 20.74	-
Pick-up 150	-	\$ 18.44	-
	-	-	-
Structures Equipment Total			<u>-</u>

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
					-
					-
					-
					-
					-
					-
					-
Structures Materials Total					<u>-</u>



Estimated Cost for Extra Work #024
Grade Crossing Installation 631210G SW 18th Street



E. Facility

I. Labor

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

II. Equipment

Description	Hours	Equip. Rate	Equip. Bid Total
Transit Van	8.00	\$ 20.74	165.92
Paint Sprayer	-	\$ 9.67	-
Pick-up 150	-	\$ 18.44	-
	-	-	-
Facility Equipment Total			<u>165.92</u>

III. Materials

Type	Qty.	UOM	Unit Price	Freight	Cost
					-
					-
					-
					-
					-
					-
					-
Facility Materials Total					<u>-</u>



Estimated Cost for Extra Work #024
Grade Crossing Installation 631210G SW 18th Street



F. Sub-Contractors

Name	Description	Price Per	UOM	Unit Price	Sub. Bid Total
BIG D	Asphalt Paving	120.00	Ton	185.00	22,200.00
BIG D	Asphalt Milling	1.00	LS	1,500.00	1,500.00
BIG D	Lane Striping	1.00	LS	1,800.00	1,800.00
FHP	Protection for Road Closing	176.00	MHR	45.00	7,920.00
FHP	Admin. Fees	176.00	HR	3.00	528.00
Acme Barricades	Road Closure	1.00	LS	7,500.00	7,500.00
RPS	Flagging	1.00	LS	8,118.00	8,118.00
Sub-Contractors Total					49,566.00

G. Mobilization & Demobilization

Type	Detail	Bid Total
Trucking	Move materials to worksite	2,900.00
Trucking	Remove old materials from worksite	1,450.00
Trucking	Move Equipment	1,050.00
Mobe/Demobe Total		5,400.00

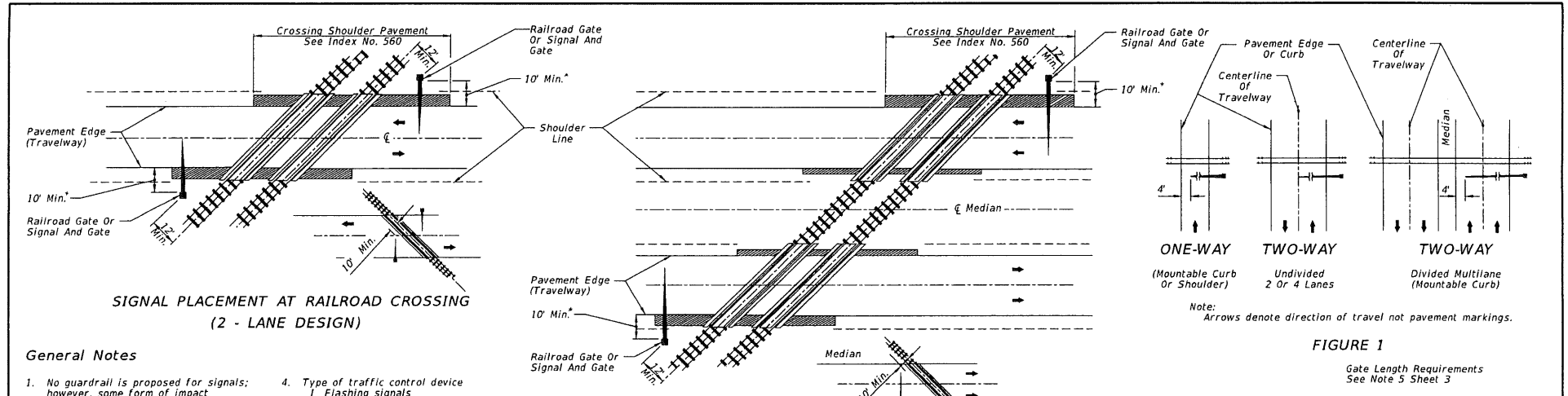
H. Miscellaneous

Description	Cost	
Weld Testing	1,200.00	
Disposal of existing crossing material Concrete	4,268.00	
Disposal of existing crossing material Rubber	3,844.43	
Disposal of existing timber ties	1,128.00	
Frontend Loader w/ Forks	2,743.00	
Vibratory Roller Rental	1,250.00	
Miscellaneous Total		14,433.43

3. Summary

Type	Cost	
Total Labor	95,858.52	
Total Equipment	91,355.51	
Total Materials	83,133.07	
Total Mobilization	5,400.00	
Total Miscellaneous	14,433.43	
Subtotal		290,180.53
15% Markup		43,527.08
Total		\$ 333,707.61

Sub Contractor Total	49,566.00
5% Markup	2,478.30
Total	52,044.30
Grand Total	385,751.91



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

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

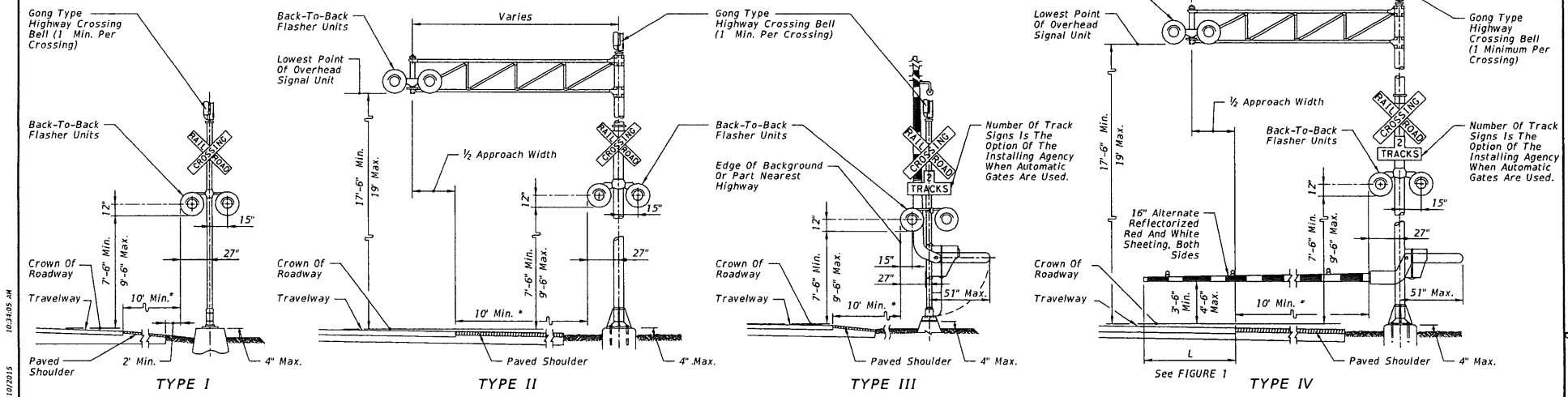
FIGURE 1
Gate Length Requirements
See Note 5 Sheet 3

General Notes

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

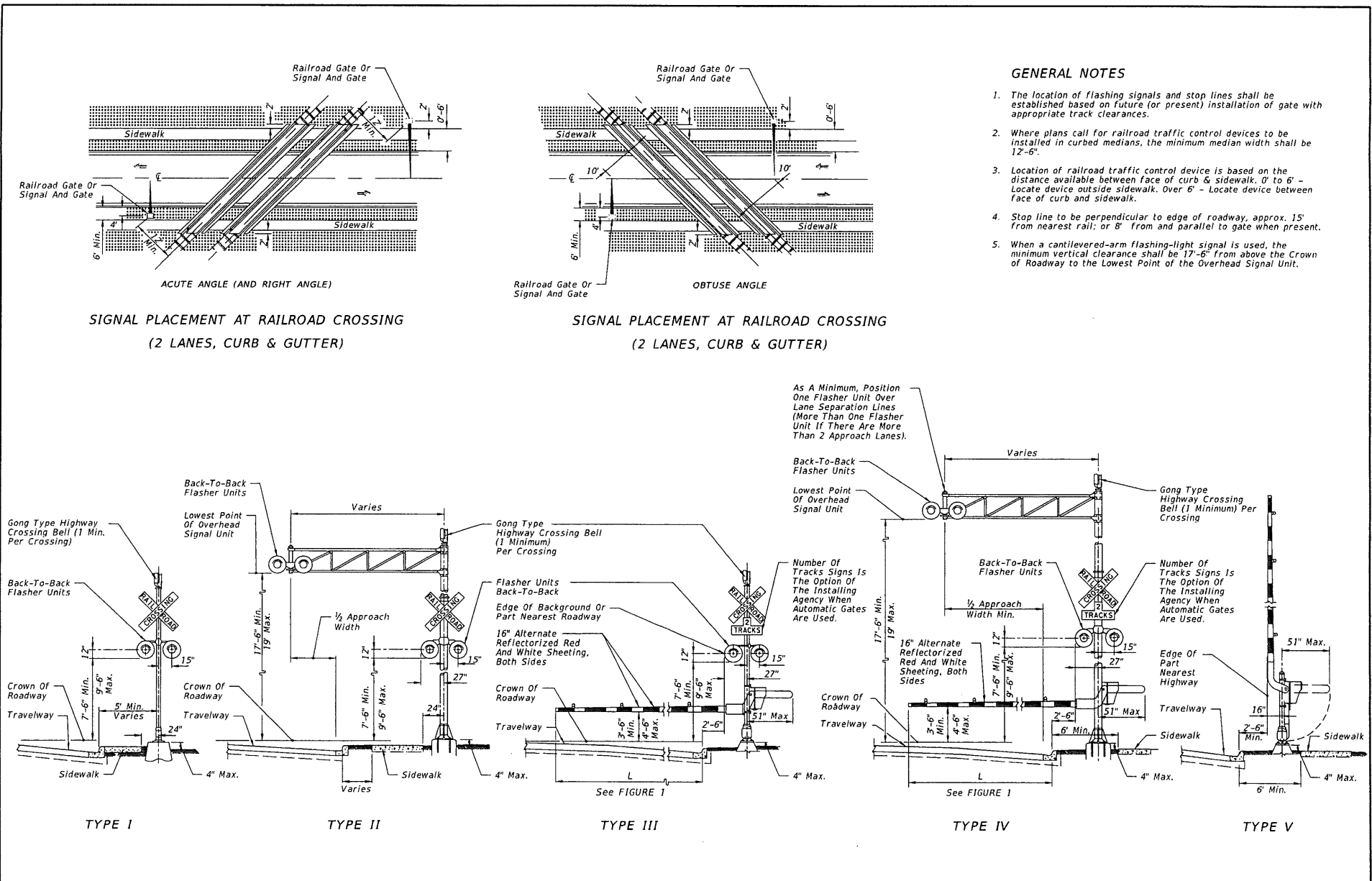
Note:
Two separate foundations may be required (one for signals, one for gate), depending on type of equipment used.

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



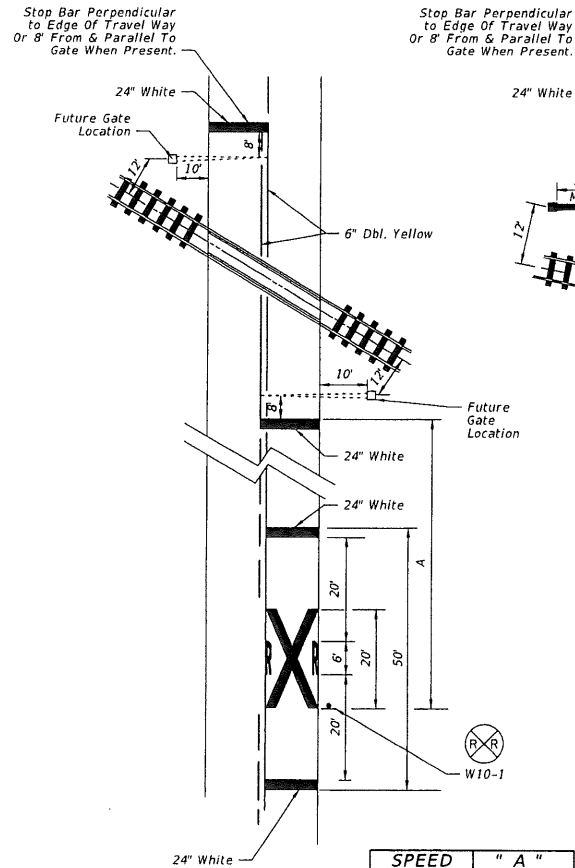
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LAST REVISION 07/01/13	REVISION	DESCRIPTION:		2016 DESIGN STANDARDS	RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES	INDEX NO. 17882	SHEET NO. 1 of 4
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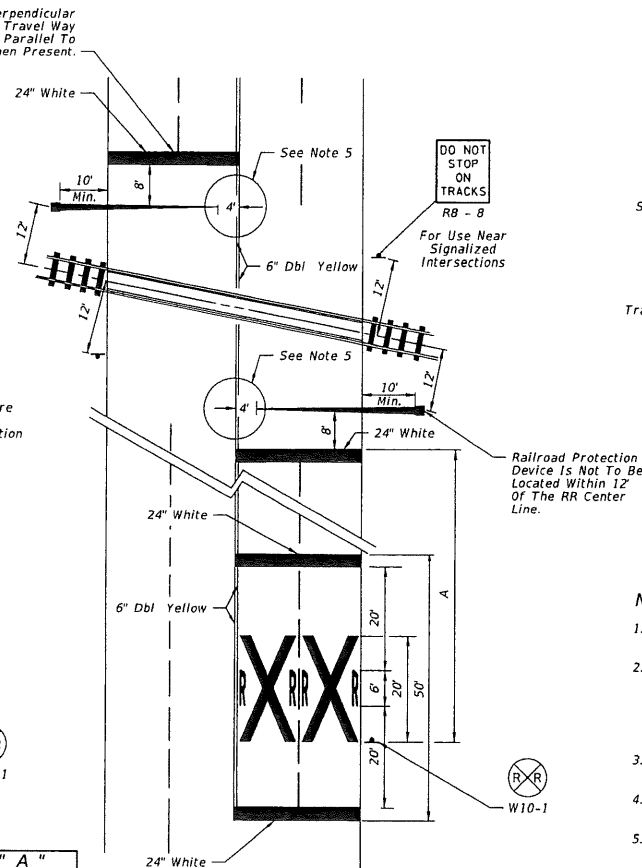


LAST REVISION 07/01/14	DESCRIPTION:	2016 DESIGN STANDARDS	RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES	INDEX NO. 17882	SHEET NO. 2 of 4
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RAILROAD CROSSING AT TWO (2)-LANE ROADWAY

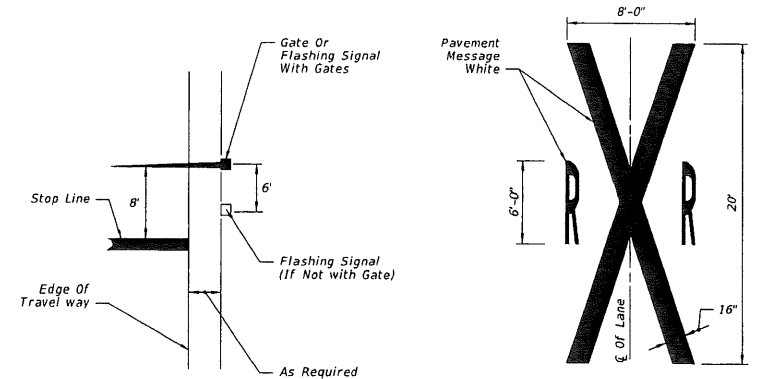


RAILROAD CROSSING AT MULTILANE ROADWAY



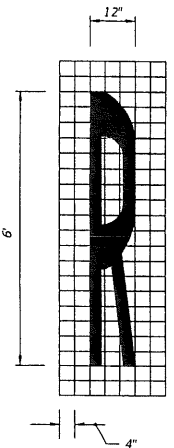
SPEED (mph)	" A " (ft)
60	400
55	325
50	250
45	175
40	125
35	100
URBAN	85 MIN.

RELATIVE LOCATION OF CROSSING TRAFFIC CONTROL DEVICES



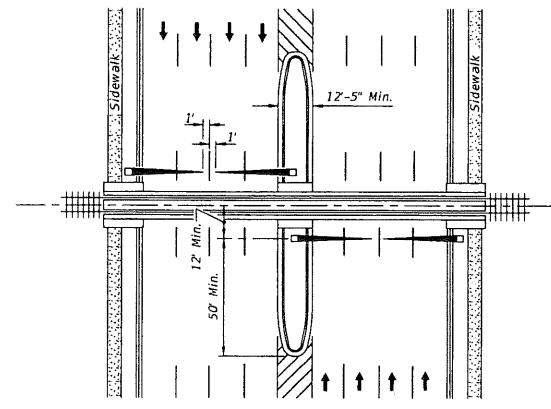
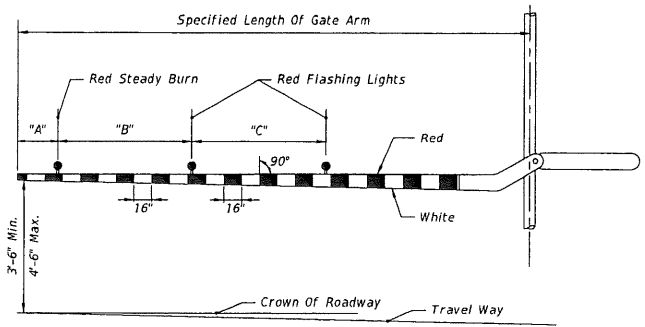
NOTES:

- When computing pavement message, quantities do not include traverse lines.
- Placement of sign W10-1 in a residential or business district, where low speeds are prevalent, the W10-1 sign may be placed a minimum distance of 100' from the crossing. Where street intersections occur between the RR pavement message and the tracks an additional W10-1 sign and additional pavement message should be used.
- A portion of the pavement markings symbol should be directly opposite the W10-1 sign.
- Recommended location for FTP-61-06 or FTP-62-06 signs, 100' urban and 300' rural. See Index 17355 for sign details.
- Gate Length Requirements:
For Two-way undivided sections:
The gate should extend to within 1' of the center line. On multiple approaches the maximum gate length may not reach to within 1' of the center line. For those cases, the distance from the gate to the center line shall be a maximum of 4'.
For one-way or divided sections:
The gate shall be of sufficient length such that the distance from the gate tip to the inside edge of pavement is a maximum of 4'.

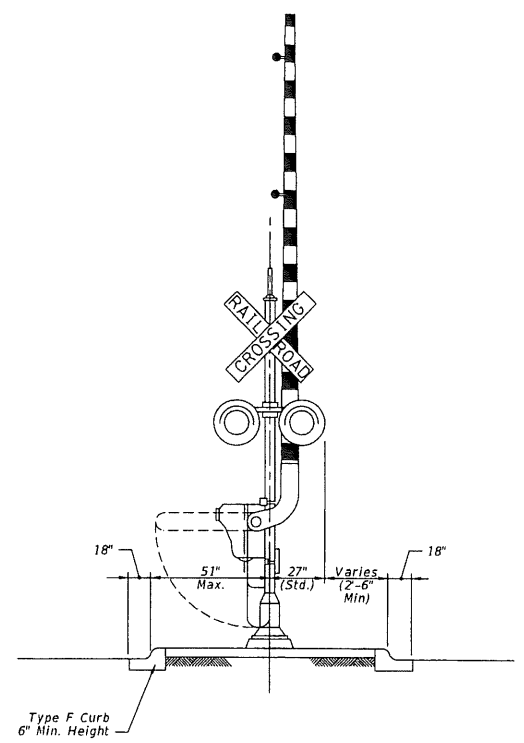


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LAST REVISION 07/01/10	DESCRIPTION:	 2016 DESIGN STANDARDS	RAILROAD GRADE CROSSING TRAFFIC CONTROL DEVICES	INDEX NO. 17882	SHEET NO. 3 of 4
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PLAN



MEDIAN SECTION AT SIGNAL GATES

RAILROAD GATE ARM LIGHT SPACING

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

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

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

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Exhibit A
Page 14 of 17

CROSSING SURFACES	
Type	Definition
C	Concrete
R	Rubber
RA	Rubber/Asphalt
TA	Timber/Asphalt

STOP ZONE FOR RUBBER CROSSING	
Design Speed (mph)	Zone Length (Distance From Stop)
45 Or Less	250'
50 - 55	350'
60 - 65	500'
70	600'


Notes:

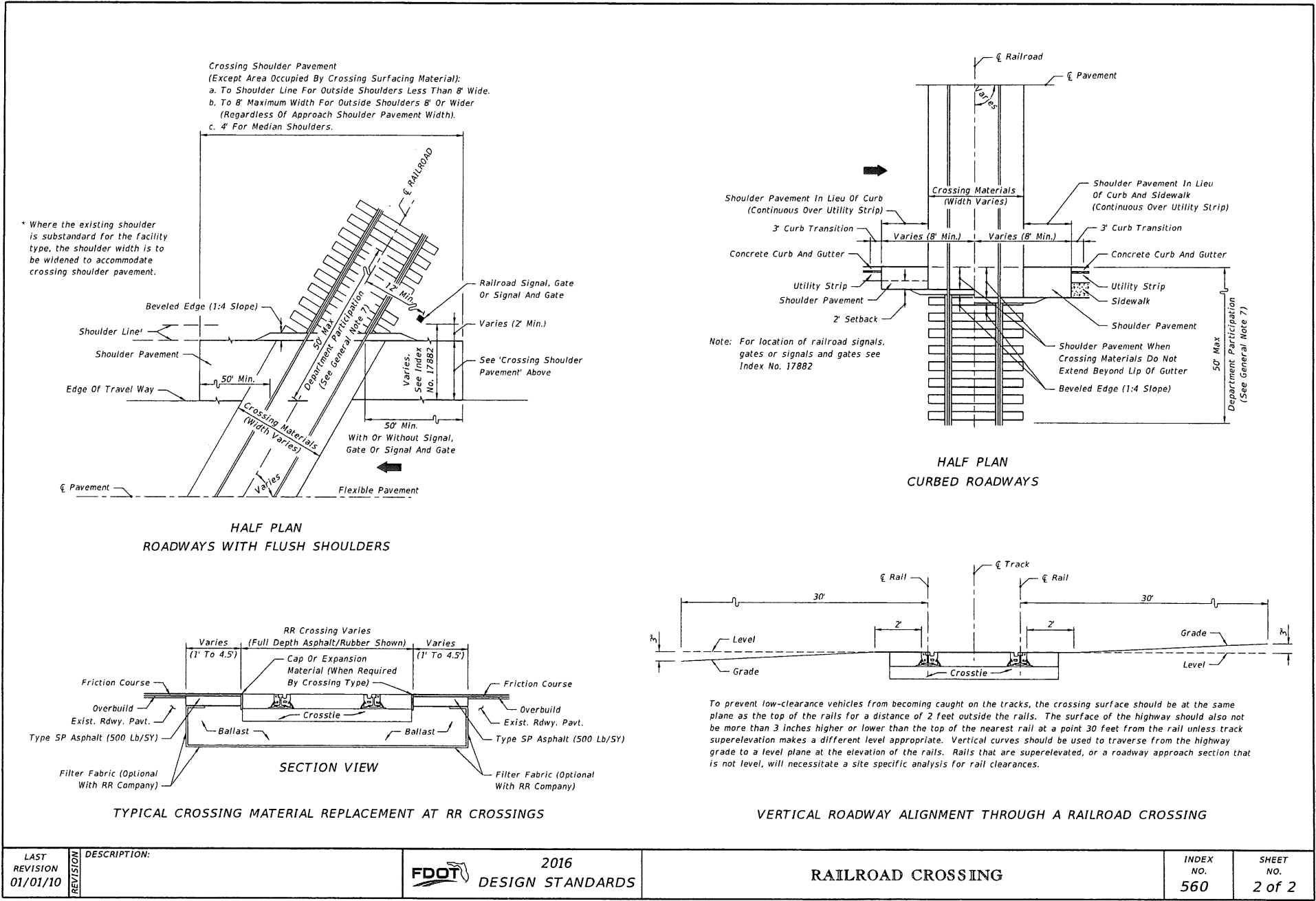
1. Type R Crossings are NOT to be used for multiple track crossings within zones for an existing or scheduled future vehicular stop. Zone lengths are charted above.
2. Single track Type R Crossings within the zones on the chart may be used unless engineering or safety considerations dictate otherwise.

GENERAL NOTES

1. 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. Sidewalks shall be constructed through the crossing between approach sidewalks of the crossing. Sidewalks shall be constructed with appropriate material to allow unobstructed travel through the crossing in accordance with ADA requirements.
6. All asphalt shall be installed in accordance with Index No. 514 and Section 300 of the Standard 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.

8/26/2014

LAST REVISION 01/01/10	DESCRIPTION:	 2016 DESIGN STANDARDS	RAILROAD CROSSING	INDEX NO. 560	SHEET NO. 1 of 2
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LAST REVISION 01/01/10	DESCRIPTION:	2016 DESIGN STANDARDS	RAILROAD CROSSING	INDEX NO. 560	SHEET NO. 2 of 2
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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

COMPANY NAME: _____

A. FDOT/AAR XING NO.: _____ RR MILE POST TIE: _____

B. TYPE SIGNALS PROPOSED _____ CLASS _____ DOT INDEX: _____

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

Annual Maintenance Cost Exclusive of Installation

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

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

EFFECTIVE DATE: July 22, 1982

GENERAL AUTHORITY: 334.044, F.S.

SPECIFIC LAW IMPLEMENTED: 335.141, F.S.

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