

FILE

Public Utilities
Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Date: 1/20/2011

Re: PUCO Case No. 09-1990 -RR-STP- In the matter of a request for CSX Transportation, Inc. to install active grade crossing warning devices in Darke County, Wayne Township at HB Hole Rd. (DOT#538-785B) and Wolf Rd. (DOT#538-798C).

By Commission order issued January 20, 2011, the Commission ordered the installation of active of warning devices at the above mentioned crossings.

The following crossings were included in the project:

	Railroad	Street	DOT#	City/County	Date of Completion
1)	CSX	HB Hole Road/TR 303	(538-785B)	Darke County	8/4/2010
2)	CSX	Wolf Road/TR 176	(538-798C)	Darke County	8/30/2010

On the basis of the attached final reports for all the grade crossing projects, staff has determined that the above projects have been put-in-service. Accordingly, the above case may be closed.

C: PUCO Legal Department

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Technician SJS Date Processed 1/20/11

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Detail 1

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = WOLF ROAD AAR# = 538798C M.P. = 183.72
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 8/9/2010

Visible Warning Devices Detail

NW Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u>1</u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u>18'</u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u> </u>	# Bells	<u>1</u>
2-Way Lights Size	<u>12"</u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u>1</u>

SE Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u>1</u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u>18'</u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u>12"</u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u>1</u>

Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u> </u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u> </u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u> </u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u> </u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u> </u>

Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u> </u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u> </u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u> </u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u> </u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u> </u>

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Detail 2

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = WOLF ROAD AAR# = 538798C M.P. = 183.72
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 8/9/2010

Underground Cable & Conduit Detail

Footage of 19c/comp : Signal 1 130' Signal 2 145' Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 Signal 2 Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 250' Track 2 250' Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 90' Power 2 Power 3 Power 4
4" Conduit under Road = 40' Under tracks = 80' Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = 1 # of Battery Boxes.
of GCP Units = 4000 Manufacturer = Model # =
of PMD Units = Manufacturer = Model # =
of "C" Inverters = Manufacturer = Model # =
GCP Frequency. Unit 1 86hz Unit 2 86hz Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 3318' Track 2 3318' Track 3 Track 4
Island Length. Track 1 120' Track 2 120 Track 3 Track 4
B12 Amp Hour = 165 GB12 Amp Hour = 165 MSB12 Amp Hour = 165

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = WOLF ROAD AAR# = 538798C M.P. = 183.72
City = VERSAILLES State = OHIO County = DARKE
Cut Over Test Date = 8/30/2010

Attendance Info

PUCO 1 Shawn Zurfley Railroad 1 _____
PUCO 2 Jill Henry Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? YES Plans in case and correct? YES
Insulation Resistance Test made? YES Relay Test Made? YES
XB12 Volts = 14.5vdc B12 Volts = 15.6vdc OB12 Volts = 12.8vdc
Grounds Test made? YES Case and Bases Tagged? YES
Lamp Volts AC = 9.1 Lamp Volts DC = 9.1
Lights Focused? YES Flash Rate = 56 FPM @ Light
Gate Arm and lights proper? YES Gate Arm Movement proper? YES
Bells Operate? YES Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? YES AC/DC Island Shunted? _____
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? _____
Tested under train moves this date? _____ Warning Time observed or set = 31 sec

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Outline

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = WOLF ROAD AAR# = 538798C M.P. = 183.72
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 8/9/2010 Cut Over Test Date = 8/30/2010

Visible Warning Devices Outline

# Gate masts.	<u>2</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>0</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>0</u>	# Multiple Track Signs.	<u>2</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>0</u> Ft. 5c/#6 Gate/Flasher Cable.	<u>0</u> Ft. 7c/#14 Control/Flasher Cable.
<u>0</u> Ft. 2c/#6 Track Cable.	<u>0</u> Ft. 7c/#14 Express Cable.
<u>0</u> Ft. 3c/#9 Power Cable.	
<u>0</u> Ft. 4" Conduit.	

Control Equipment Outline

# of Instrument Cases or Bungalows = <u>1</u>	# of Battery Boxes = <u>0</u>			
# of GCP Units = <u>4000</u>	Manufacturer = <u>0</u>	Model # = <u>0</u>		
# of PMD Units = <u>0</u>	Manufacturer = <u>0</u>	Model # = <u>0</u>		
# of "C" Inverters = <u>0</u>	Manufacturer = <u>0</u>	Model # = <u>0</u>		
GCP Frequency.	Unit 1 <u>86hz</u>	Unit 2 <u>86hz</u>	Unit 3 <u>0</u>	Unit 4 <u>0</u>
PMD Frequency.	Unit 1 <u>0</u>	Unit 2 <u>0</u>	Unit 3 <u>0</u>	Unit 4 <u>0</u>
Approach Length.	Track 1 <u>3318'</u>	Track 2 <u>3318'</u>	Track 3 <u>0</u>	Track 4 <u>0</u>
Island Length.	Track 1 <u>120'</u>	Track 2 <u>120</u>	Track 3 <u>0</u>	Track 4 <u>0</u>
B12 Amp Hour = <u>165</u>	GB12 Amp Hour = <u>165</u>	MSB12 Amp Hour = <u>165</u>		

The above described apparatus was observed to be installed in accordance with State, Federal, and MUTCD standards and regulations. (Except those defects noted on FRA Report)

The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects noted on FRA Report)

Name Shawn A. Zurflay

Title PUCO/FRA Inspector
Date January 10, 2011

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Detail 1

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = H.B. HOLE ROAD AAR# = 538785B M.P. = 179.97
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 7/7/2010

Visible Warning Devices Detail

NW Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u>1</u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u>18'</u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u> </u>	# Bells	<u>1</u>
2-Way Lights Size	<u>12"</u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u>1</u>

SE Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u>1</u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u>18'</u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u>1</u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u>12"</u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u>1</u>

 Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u> </u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u> </u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u> </u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u> </u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u> </u>

 Quad

# Flasher Mast	<u> </u>	# Gate Mast	<u> </u>	# Cantilever	<u> </u>
# Crossbucks	<u> </u>	Gate Arm Length	<u> </u>	Cantilever Length	<u> </u>
# 2-Way Lights	<u> </u>	# 1-Way lights	<u> </u>	# Bells	<u> </u>
2-Way Lights Size	<u> </u>	1-Way Lights Size	<u> </u>	# Multiple Track Signs	<u> </u>

Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division

Highway Grade Crossing Warning System Installation Detail 2

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = H.B. HOLE ROAD AAR# = 538785B M.P. = 179.97
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 7/7/2010

Underground Cable & Conduit Detail

Footage of 19c/comp : Signal 1 80' Signal 2 140' Signal 3 Signal 4
Footage of 7c/#14 to: Signal 1 Signal 2 Signal 3 Signal 4
Footage of 2c/#6 to: Track 1 210' Track 2 210' Track 3 Track 4
Footage of 7c/#14 to: Location 1 Location 2 Location 3 Location 4
Footage of 3c/#9 to: Power 1 50' Power 2 Power 3 Power 4
4" Conduit under Road = 40' Under tracks = 80' Under Other =

Control Equipment Detail

of Instrument Cases or Bungalows = 1 # of Battery Boxes.
of GCP Units = 4000 Manufacturer = Model # =
of PMD Units = Manufacturer = Model # =
of "C" Inverters = Manufacturer = Model # =
GCP Frequency. Unit 1 156hz Unit 2 156hz Unit 3 Unit 4
PMD Frequency. Unit 1 Unit 2 Unit 3 Unit 4
Approach Length. Track 1 3476' Track 2 3476' Track 3 Track 4
Island Length. Track 1 120' Track 2 120 Track 3 Track 4
B12 Amp Hour = 165 GB12 Amp Hour = 165 MSB12 Amp Hour = 165

**Public Utilities Commission of Ohio
Transportation Department
Inspection & Investigation Division**

Highway Grade Crossing Warning System Installation Cut Over Test

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = H.B. HOLE AAR# = 538785B M.P. = 179.97
City = VERSAILLES State = OHIO County = DARKE
Cut Over Test Date = 8/4/2010

Attendance Info

PUCO 1 Shawn Zurfley Railroad 1 _____
PUCO 2 Jill Henry Railroad 2 _____
PUCO 3 _____ Railroad 3 _____

Inspection & Tests Made

Locks? YES Plans in case and correct? YES
Insulation Resistance Test made? YES Relay Test Made? YES
XB12 Volts = 16.5vdc B12 Volts = 15.6vdc OB12 Volts = 12.8vdc
Grounds Test made? YES Case and Bases Tagged? YES
Lamp Volts AC = 9.1 Lamp Volts DC = 9.1
Lights Focused? YES Flash Rate = 56 FPM @ Light
Gate Arm and lights proper? YES Gate Arm Movement proper? YES
Bells Operate? YES Traffic Pre-emption operates properly? NA
MS / GCP Island Shunt with no time out? YES AC/DC Island Shunted? _____
MS / GCP Approach Shunt with time out? _____ AC/DC Approach Shunted? _____
Tested under train moves this date? _____ Warning Time observed or set = 32 sec

Public Utilities Commission of Ohio
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Highway Grade Crossing Warning System Installation Outline

Railroad = CSX TRANSPORTATION Line = INDIANAPOLIS
Location = H.B. HOLE ROAD AAR# = 538785B M.P. = 179.97
City = VERSAILLES State = OHIO County = DARKE
Construction Start Date = 7/7/2010 Cut Over Test Date = 8/4/2010

Visible Warning Devices Outline

# Gate masts.	<u>2</u>	# Cantilever Masts.	<u>0</u>	# Flasher Masts.	<u>0</u>
# 2 - Way light units.	<u>2</u>	# 1 - Way Light units.	<u>0</u>		
# Crossbucks.	<u>0</u>	# Multiple Track Signs.	<u>2</u>	# Bells.	<u>1</u>

Underground Cable & Conduit Outline

<u>0</u>	Ft. 5c/#6 Gate/Flasher Cable.	<u>0</u>	Ft. 7c/#14 Control/Flasher Cable.
<u>0</u>	Ft. 2c/#6 Track Cable.	<u>0</u>	Ft. 7c/#14 Express Cable.
<u>0</u>	Ft. 3c/#9 Power Cable.		
<u>0</u>	Ft. 4" Conduit.		

Control Equipment Outline

# of Instrument Cases or Bungalows =	<u>1</u>	# of Battery Boxes =	<u>0</u>		
# of GCP Units =	<u>4000</u>	Manufacturer =	<u>0</u>		
# of PMD Units =	<u>0</u>	Model # =	<u>0</u>		
# of "C" Inverters =	<u>0</u>	Manufacturer =	<u>0</u>		
		Model # =	<u>0</u>		
GCP Frequency.	Unit 1 <u>156hz</u>	Unit 2 <u>156hz</u>	Unit 3 <u>0</u>	Unit 4 <u>0</u>	
PMD Frequency.	Unit 1 <u>0</u>	Unit 2 <u>0</u>	Unit 3 <u>0</u>	Unit 4 <u>0</u>	
Approach Length.	Track 1 <u>3476'</u>	Track 2 <u>3476'</u>	Track 3 <u>0</u>	Track 4 <u>0</u>	
Island Length.	Track 1 <u>120'</u>	Track 2 <u>120</u>	Track 3 <u>0</u>	Track 4 <u>0</u>	
B12 Amp Hour =	<u>165</u>	GB12 Amp Hour =	<u>165</u>	MSB12 Amp Hour =	<u>165</u>

The above described apparatus was observed to be installed in accordance with State, Federal, and MUTCD standards and regulations. (Except those defects noted on FRA Report)

The above described location was observed to operate as designed in accordance with FRA standards and regulations. (Except those defects noted on FRA Report)

Name Shawn A. Zurfley

Title PUCO/FRA Inspector
Date January 10, 2011