Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 2/14/20

Re: PUCO Case No. 20-395-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Grand Trunk Western Railroad Crossing, New York Avenue, DOT#905-282V, in Lucas County, Ohio.

On July 8, 2019, the Ohio Rail Development Commission (ORDC) authorized funding for Grand Trunk Western Railroad (GTW) to install flashing lights and gates at New York Avenue, DOT#905-282V, in Lucas County, Ohio. The crossing was surveyed, on October 21, 2016, and found to warrant the upgrade. The electric utility provider for this crossing is First Energy-Toledo Edison.

The project will be paid for with federal funds and is actual cost. The plans and estimates in the amount of \$286,179.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- Any ancillary work to make the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

Please serve the following parties of record:

Grand Trunk Western Railroad Thomas Brasseur Canadian National Manager of Public Works 24002 Vreeland road Flat Rock, MI 48134

Ohio Rail Development Commission Cathy Stout Safety Manager 1980 West Broad Street Mail Stop #3140 Columbus, OH 43223

City of Toledo Douglas Stephens Administrator, Engineering Services 600 Jefferson Avenue, Suite 300 Toledo, OH 43604

First Energy-Toledo Edison

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Chief, Motor Carrier & Rail Enforcement, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Don Damron, ORDC

SUBJECT: New York Ave, Lucas County,

DOT# 905282V; PID# 104588

DATE: January 7, 2020

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on 10/21/2016. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the railroad site layout plan and project estimate are attached.

The preliminary engineering plans and cost estimates have already been provided by the railroad and ORDC accepts these as provided. Please issue a construction-only order for the project referenced above. ORDC recommends a nine (9) month construction timeline. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Construction Authorization

Diagnostic Review Team Survey

Letter Agreement

Plan, Estimate & Material List

Authorization to Proceed with Engineering Plans and Estimates

Copy: Jill Henry, Rail Division Specialist, PUCO

ORDC Project Manager (file)



Mike DeWine, Governor Jon Husted, Lt. Governor

Mark Policinski, Chair

January 7, 2020

Mr. Thomas Brasseur Grand Truck Western Railroad Manager of Public Works 24002 Vreeland Road Flat Rock, MI 48134

RE: Construction Authorization for Grade Crossing Warning Device Improvement

New York Ave. in Toledo, Lucas County, Ohio

DOT# 905282V; Ohio PID# 104588

Dear Mr. Brasseur:

The preliminary engineering design dated 10-29-19 plan and cost estimate dated 9-26-2917, for the referenced project have been reviewed and are acceptable. Please note that the GTWR must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project. The Grand Truck Western Railroad may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan.

The estimate of \$286,179.00 is acceptable and reimbursement is limited to \$286,179.00. This Construction Authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon the Grand Trunk and Western Railroad (GTWR) accepting the following instructions:

- 1. The GTWR's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, email don.darmon@dot.ohio.gov, and to the Public Utilities Commission of Ohio at Jill.henry@puc.state.oh.us. The GTWR's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. The GTWR will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by GTWR.

- 3. The GTWR's project foremen will notify Don Damron at 614-917-8466 (mobile) or don.damron@dot.ohio.gov (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. GTWR will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. GTWR will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

Don Damron Project Manager

C: Randall Schumacher, Chief, Motor Carrier & Rail Enforcement, PUCO Jill Henry, Rail Division Specialist, PUCO Heather Hamilton, ORDC ORDC (file)

GRAND TRUNK WESTERN RAILROAD COMPANY

A WHOLLY OWNED SUBSIDIARY OF

CANADIAN NATIONAL RAILWAY COMPANY

HIGHWAY-RAIL GRADE CROSSING SIGNAL ESTIMATE

Roadway Name: New York Ave Date: September 26, 2017

Location: Toledo, OH

Railroad Region: Southern

Railroad Subdivision: Shore Line Est: 17-905282V

Railroad Milepost: 000.28

DOT Crossing No.: 905282V Prepared By: Kasey Klynstra/CJW

Description of Work: Install flashing-light mast-mounted gated signals with 12-inch LED

lamp units, electronic bells, 1-way sidelights, and a bungalow with

constant warning time circuitry

New York Ave Page 2

Toledo, OH 17-905282V

MATERIAL

MISCELLANEOUS MATERIAL

TOTAL MATERIAL

<u>Item</u>	Quantity	<u>Units</u>	<u>Unit Cost</u>		Cost
Backfill Signal Material 17kw Generator Assembly Insulated Joint	50 1 1 6	TON LOT EACH EACH	\$ 85.00 \$ 1,000.00 \$ 7,200.00 \$ 1,200.00	\$ \$ \$	4,250.00 1,000.00 7,200.00 7,200.00
SUBTOTAL MISCELLANEOUS MATERIA	L			\$	19,650.00
CROSSING PACKAGE MATERIAL					
<u>Item</u>	Quantity	<u>Units</u>	Unit Cost		Cost
Pre-wired Aluminum Bungalow, 6'x6' GCP 4000 2 Track (redundant) Multi-freq NBS, 340-970 Hz Shunt/Coupler Enclosure DC Shunt Enhancer Panel DC converter, 2TC Relay, ST, 2 Ω, 400012 w/Plugboard Resistor (4 Ohm & 2.5 Ohm) Swing Rack 2 Position SEAR II, ILOD Modem, Cellular Wayside Access Gateway SEAR II, Ground Fault Sensor Convertor, 12VDC/12VDC 5 Way Antenna with 36" Pole Kit Rectifier, NRS 20A Rectifier, NRS 40A Battery, Ni-Cad, SPL 250 AH Battery, Ni-Cad, SPL 340 AH	1 1 2 2 1 1 1 2 1 2 1 1 1 1 1 1 1 1	EACH EACH EACH EACH EACH EACH EACH EACH	\$ 18,000.00 \$ 23,510.00 \$ 330.00 \$ 550.00 \$ 1,390.00 \$ 600.00 \$ 45.00 \$ 120.00 \$ 408.00 \$ 3,375.00 \$ 850.00 \$ 420.00 \$ 1,431.00 \$ 1,500.00 \$ 380.00 \$ 575.00 \$ 200.00 \$ 275.00		18,000.00 23,510.00 660.00 1,100.00 1,390.00 550.00 600.00 90.00 120.00 816.00 3,375.00 850.00 420.00 1,431.00 1,500.00 380.00 575.00 2,200.00 2,475.00
LED Flasher & Gate Assembly, 2-Way LED Flasher & Crossarm Assy, 1-Way Foundation, S-2 Arm, E-Z Gate, 16-24' Gatekeeper, SK-1000 Bell, Electronic Sign, "Stop on Red Signal" w/Hardware Wire, 2c/6, T10456 Cable,3c/6,T10458 Cable,7c/6,9c/14, T12481 SUBTOTAL CROSSING PACKAGE MATI	2 1 2 2 2 2 2 2 2 600 100 400	EACH EACH EACH EACH EACH EACH EACH EACH	\$ 275.00 \$ 8,900.00 \$ 985.00 \$ 1,100.00 \$ 605.00 \$ 1,410.00 \$ 385.00 \$ 160.00 \$ 1.63 \$ 3.21 \$ 5.20	* ******* *** *	2,475.00 17,800.00 985.00 2,200.00 1,210.00 2,820.00 770.00 320.00 978.00 321.00 2,080.00 ======= 89,526.00
SUBTUTAL UNUSSING PAUNAGE MATI	ERIAL			Ф	89,526.00

\$ 109,176.00

New York Ave					Page 3
Toledo, OH					17-905282V
	LABO	<u>R</u>			
SIGNAL LABOR					
<u>Item</u>	Gang Days		Cost/Day		Cost
6-man Gang	14		\$ 2,500.00	\$	35,000.00
SUBTOTAL SIGNAL LABOR				\$	35,000.00
MISCELLANEOUS LABOR					
<u>Item</u>	Quantity	<u>Units</u>	Unit Cost		Cost
Preliminary Engineering Construction Engineering Accounting	1 1 1	L.S. L.S. L.S.	\$ 2,500.00 \$ 300.00 \$ 200.00	\$ \$ \$	2,500.00 300.00 200.00
SUBTOTAL MISCELLANEOUS LABOR				\$	3,000.00
TOTAL LABOR	OTHE	R		\$	38,000.00
Item	Quantity	<u>Units</u>	Unit Cost		Cost
Contractor/Rented Equipment Directional Boring (By Others) Power Service, AC Freight on Crossing Package Preliminary Engineering (Contracted) Construction Engineering (Contracted) Per Diem/Business Expense Sales Tax on Material	1 125 1 1 1 1 1	L.S. FT L.S. L.S. L.S. L.S. L.S.	\$ 8,750.00 \$ 41.00 \$ 15,000.00 \$ 6,000.00 \$ 2,750.00 \$ 8,000.00 \$ 21,000.00 \$ 6,267.00	* * * * * * * * *	8,750.00 5,125.00 15,000.00 6,000.00 2,750.00 8,000.00 21,000.00 6,267.00

6,267.00 =======

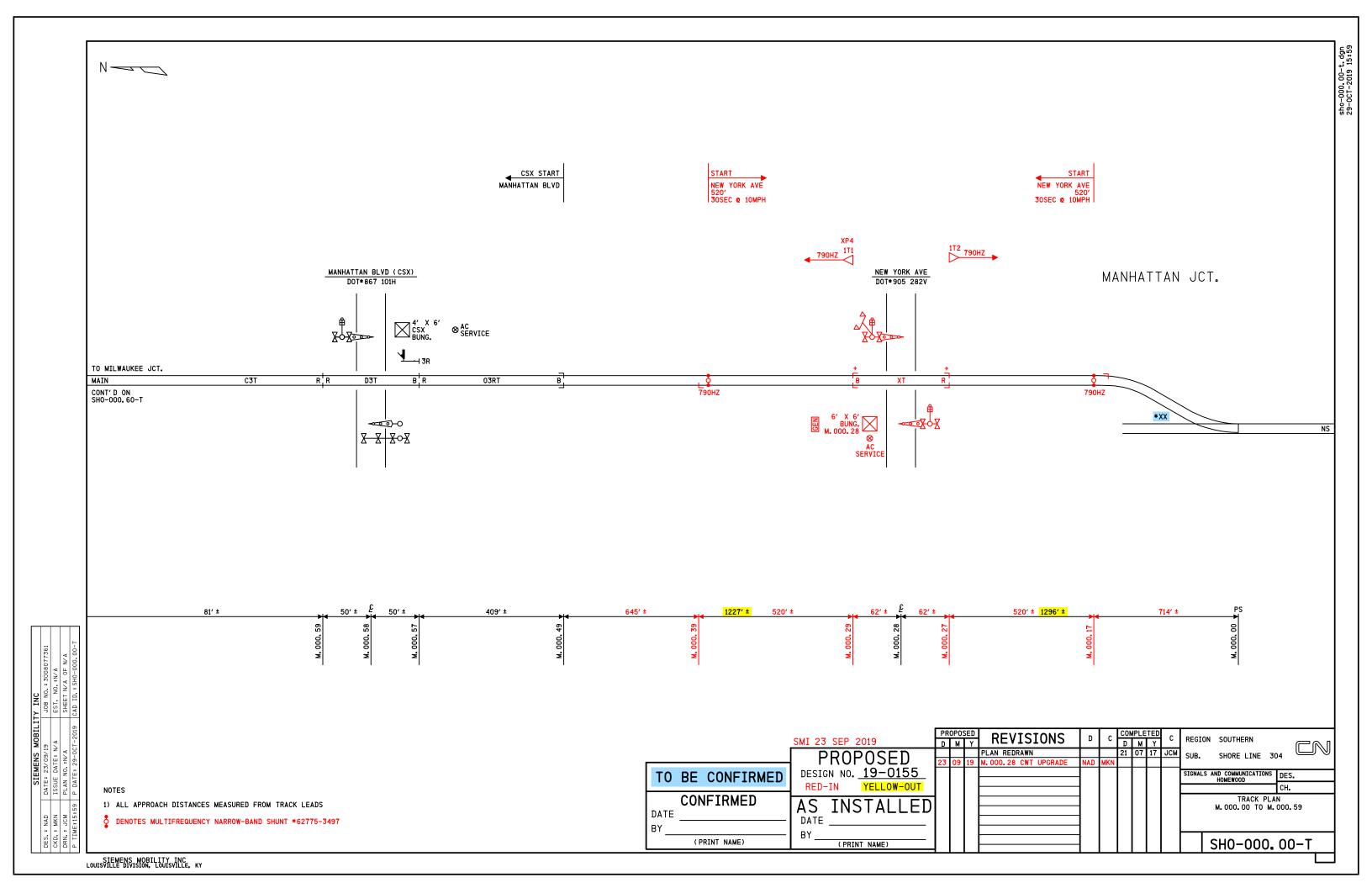
\$ 72,892.00

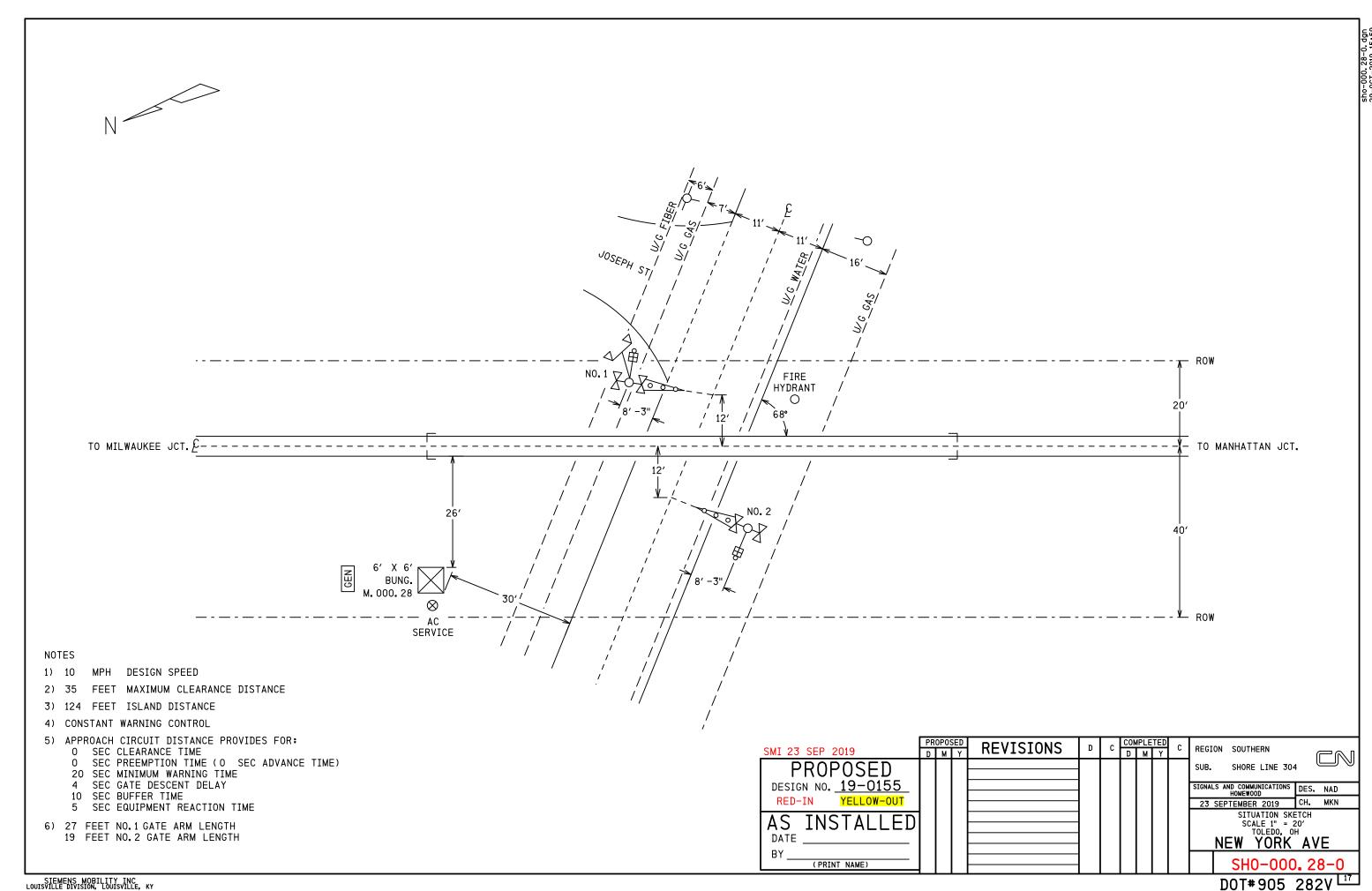
\$ 220,068.00

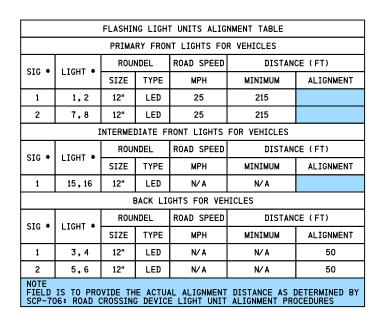
TOTAL DIRECT COSTS

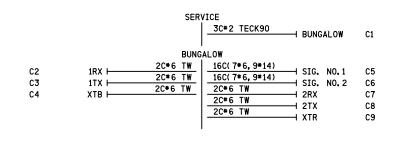
TOTAL OTHER

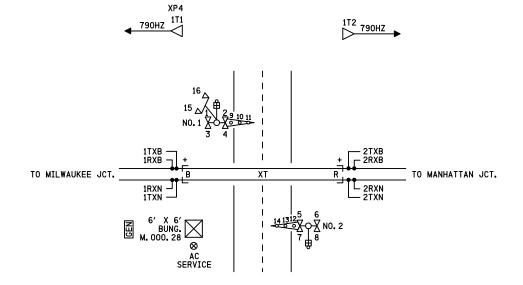
New York Ave			Page 4
Toledo, OH			17-905282V
	FHWA ADDITIVES		
Material Material Additive	5.00%	\$ 109,176.00	\$ 5,459.00
Signal Labor Signal Labor Additive	159.61%	\$ 35,000.00	\$ 55,864.00
Engineering Labor Engineering Labor Additive	159.61%	\$ 2,800.00	\$ 4,469.00
Accounting Labor Accounting Labor Additive	159.61%	\$ 200.00	\$ 319.00
Other		\$ 72,892.00	
TOTAL DIRECT COSTS		\$ 220,068.00	=======
TOTAL FHWA ADDITIVES			\$ 66,111.00
GRAND TOTAL FHWA BASIS			\$ 286,179.00





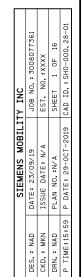






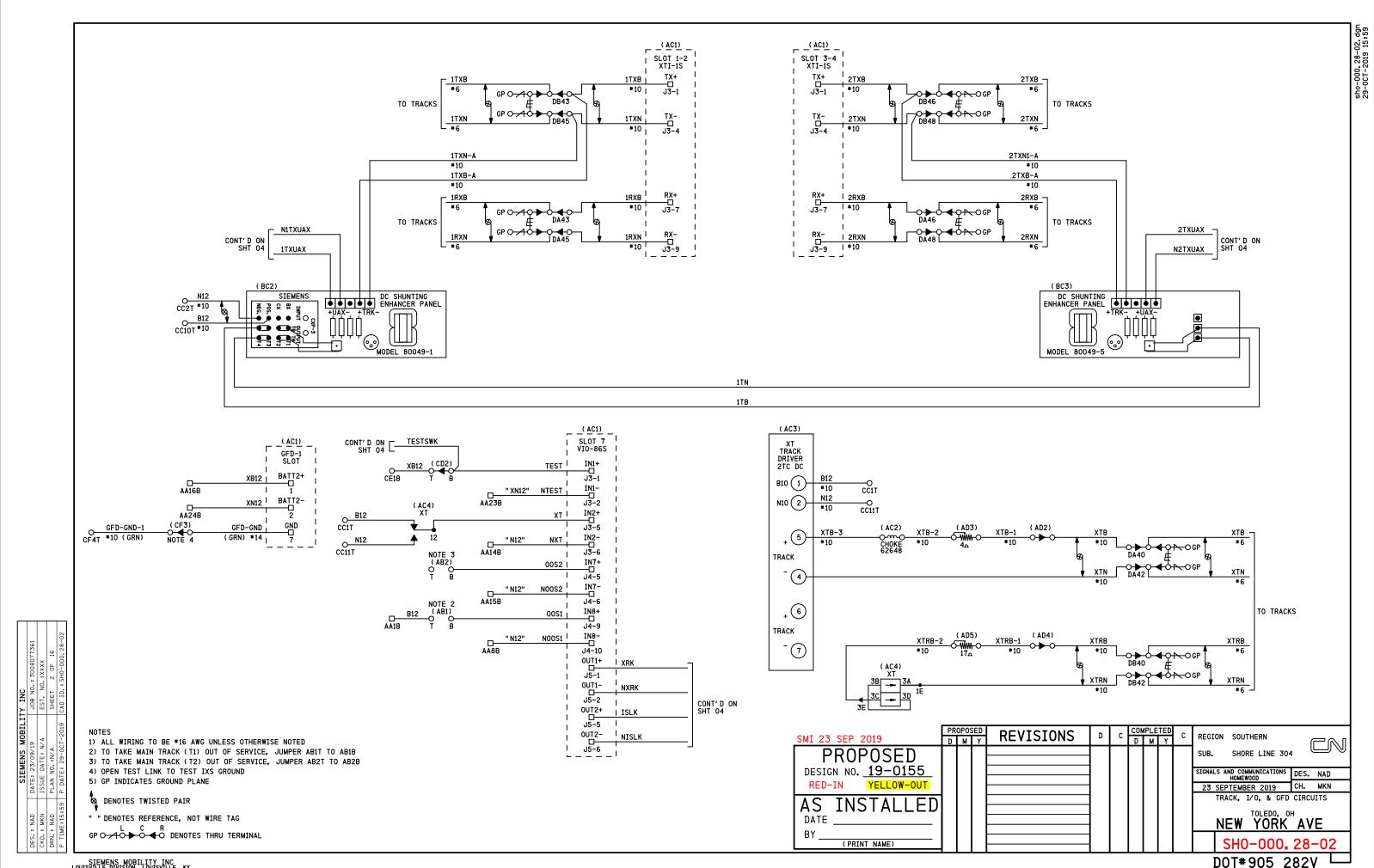
CONTENTS	SHEET NO.
SITUATION SKETCH	0
INDEX, CABLE & TRACK LAYOUT	01
TRACK, I/O, & GFD CIRCUITS	02
CROSSING CONTROLLER CIRCUITS	03
CROSSING MONITORING CIRCUITS	04
SIGNAL NO.1 CONTROL CIRCUITS	05
SIGNAL NO. 2 CONTROL CIRCUITS	06
IXS XP4 CHASSIS CONFIGURATION & WIRING	07
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CROSSING MONITORING CONFIGURATIONS	10
DC DISTRIBUTION	11
AC DISTRIBUTION	12
MAIN TERMINAL BOARD INSIDE DETAIL SIDE D	13
MAIN TERMINAL BOARD OUTSIDE DETAIL SIDE D	14
BUNGALOW LAYOUT TOP VIEW & SIDE A	15
BUNGALOW LAYOUT SIDES B, C, & D	16

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SIEMENS MOBILITY INC LOUISVILLE DIVISION, LOUISVILLE, KY

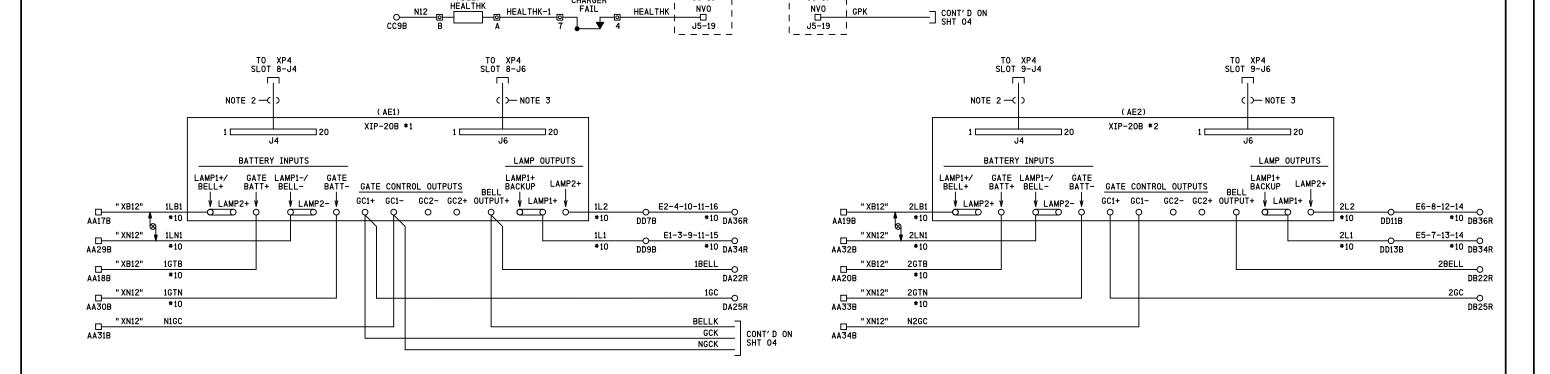


DOT#905 282V

1) ALL WIRING TO BE *16 AWG UNLESS OTHERWISE NOTED 2) 8' XIP TO IXC-20S CABLE, P/N: 075046-001 3) 8' XIP TO IXC-20S CABLE, P/N: 075047-001 " " DENOTES REFERENCE, NOT WIRE TAG DENOTES TWISTED PAIR

			XIP-20B CA	BLE I	DETAIL	
I	PIN	J4	J6	PIN	J4	J6
	1	GATE B	GATE1 OUT+	11	LAMP1 N	LAMP2 N
	2	GATE B	GATE1 OUT-	12	BELL B	N/A
	3	GATE N	N/A	13	LAMP1 OUT+	LAMP2 OUT+
	4	GATE N	N/A	14	LAMP1 OUT+	LAMP2 OUT+
	5	N/A	GATE2 OUT+	15	LAMP1 OUT+	LAMP2 OUT+
	6	N/A	GATE2 OUT-	16	LAMP1 OUT+	LAMP2 OUT+
	7	RELAY COIL1	N/A	17	LAMP1 B	LAMP2 B
	8	BELL OUT+	N/A	18	LAMP1 B	LAMP2 B
	9	BELL N	N/A	19	LAMP1 B	LAMP2 B
	10	LAMP1 N	LAMP2 N	20	LAMP1 B	LAMP2 B

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DESIGN NO. 19-0155											SIGNALS AND COMMUNICATIONS DES. NAD
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las installed											CROSSING CONTROLLER CIRCUITS
DATE											NEW YORK AVE
BY(PRINT NAME)											SH0-000.28-03



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J5-1

IN1-J5-2 IN2+ J5-5

IN2-J5-6

FSI

J5-17

DB26R

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DB27R

AA28B

I N2GP "XN12"

I N2GD "XN12"

__ (<u>AC1)</u> SLOT 8 | IXC-20S |

IN1+ —□ J5-1

IN1-____ J5-2

IN2-J5-6

FS0 □ J5-18

1GD |

N1GD

O-DA26R

AA25B

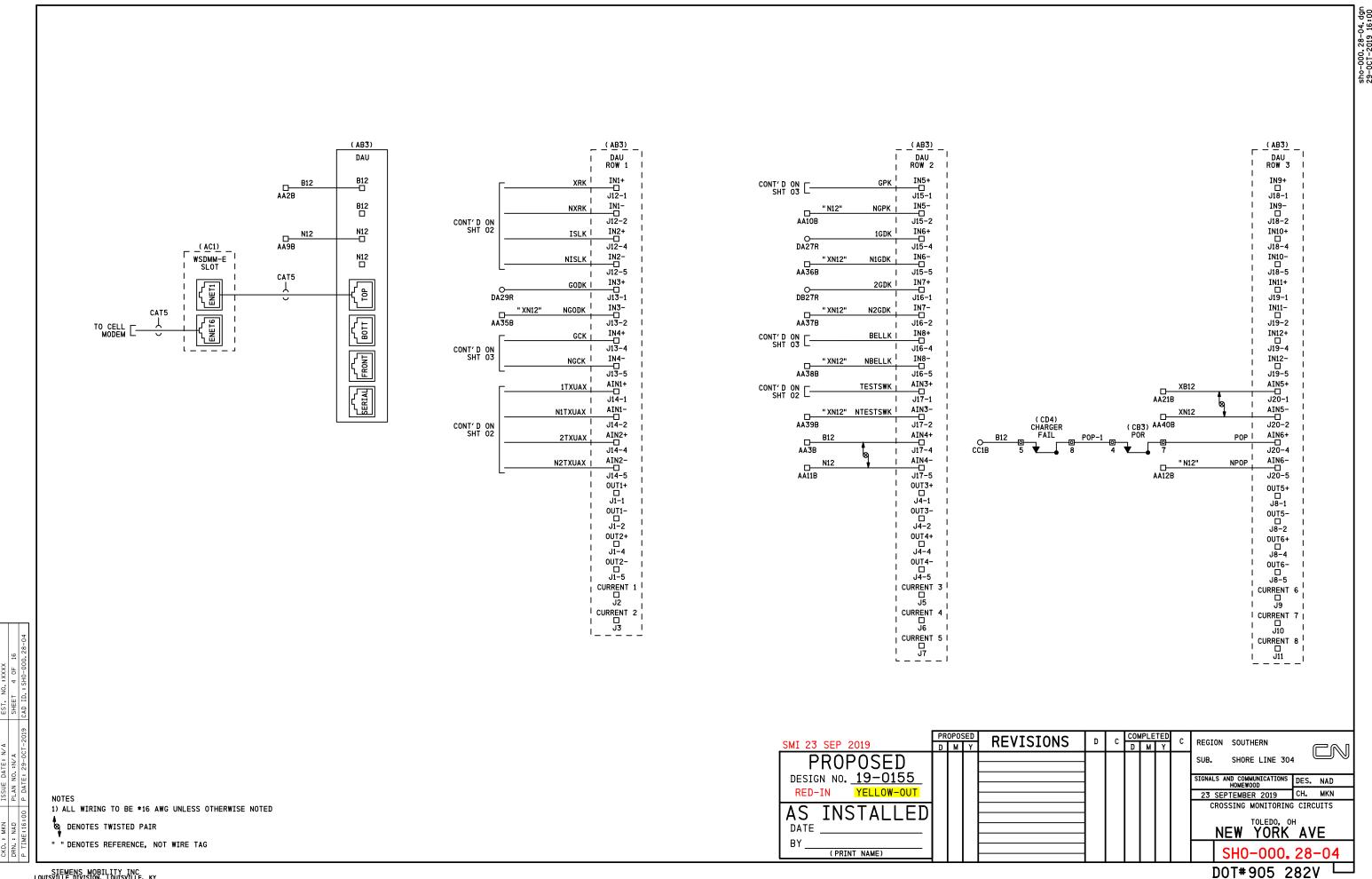
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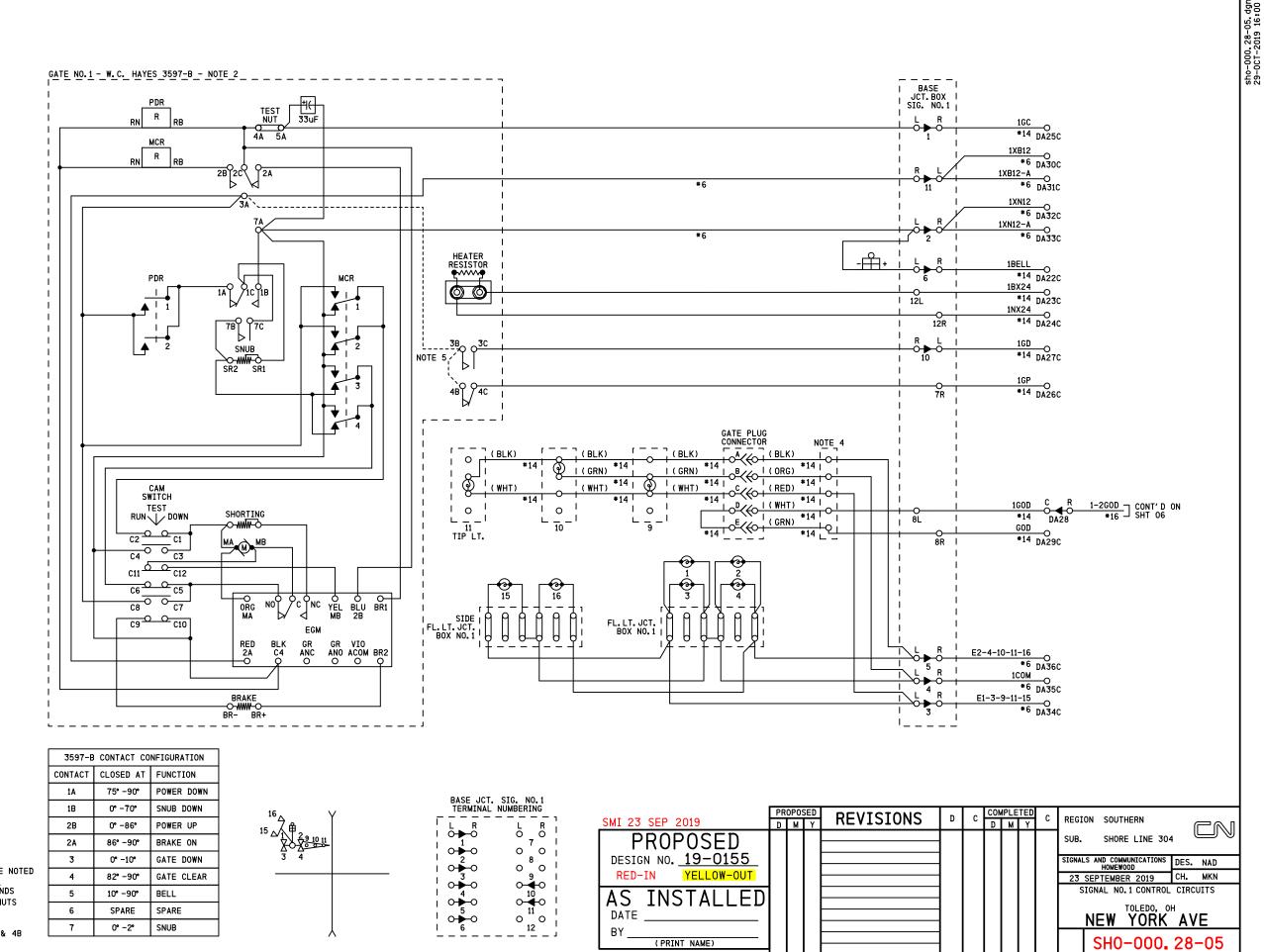
AA26B

(CD4) CHARGER FAIL

(DE2) HEALTHK

" XN12"

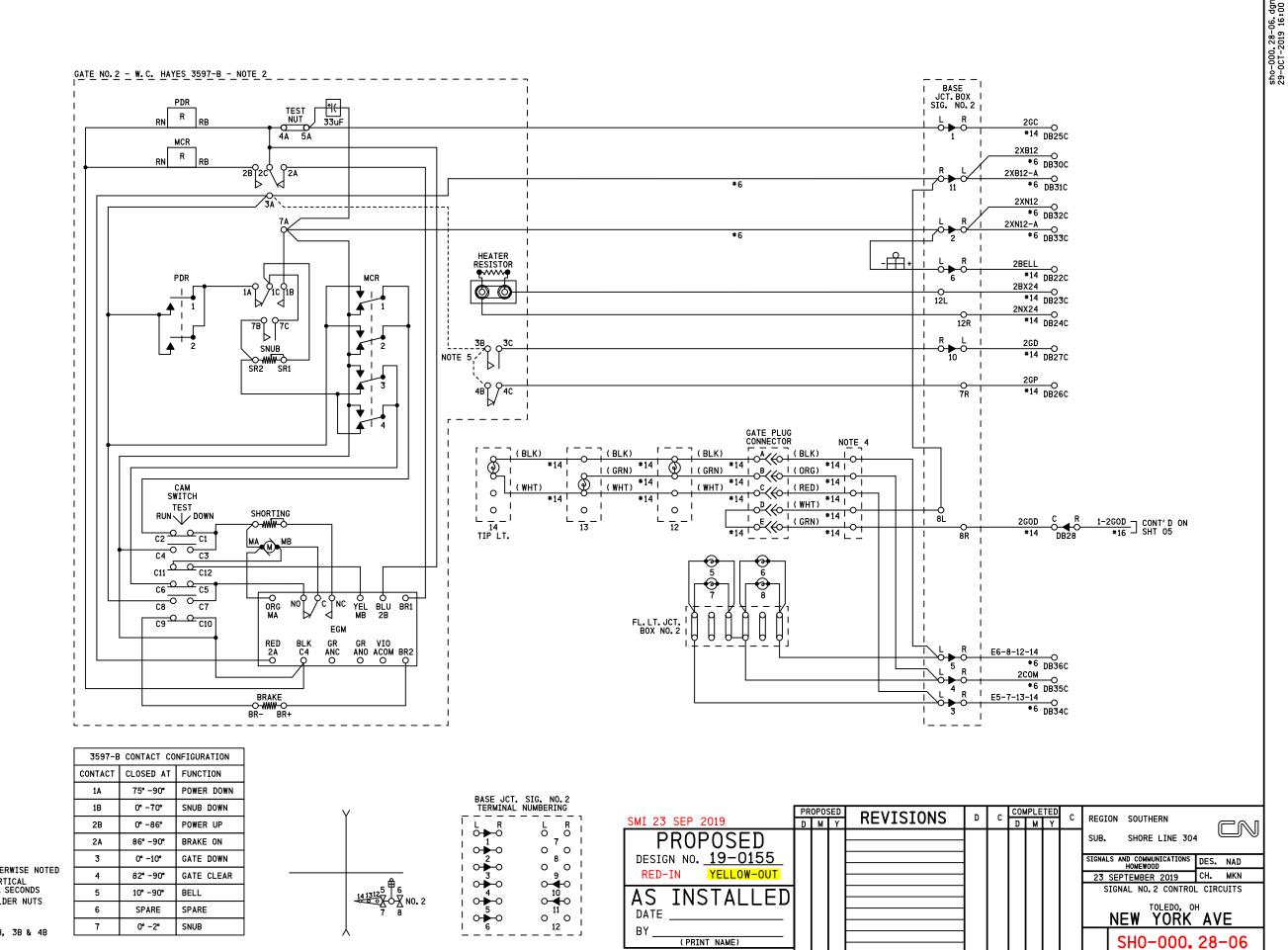




1) ALL WIRING TO BE *10 AWG UNLESS OTHERWISE NOTED

- 3) ENSURE ALL TERMINALS HAVE TWO SHOULDER NUTS 4) TERMINALS LOCATED IN GATE MECHANISM
- 5) DASHED LINES REPRESENT STRAPS ADD STRAP BETWEEN TERMINALS 3A & 3B, 3B & 4B

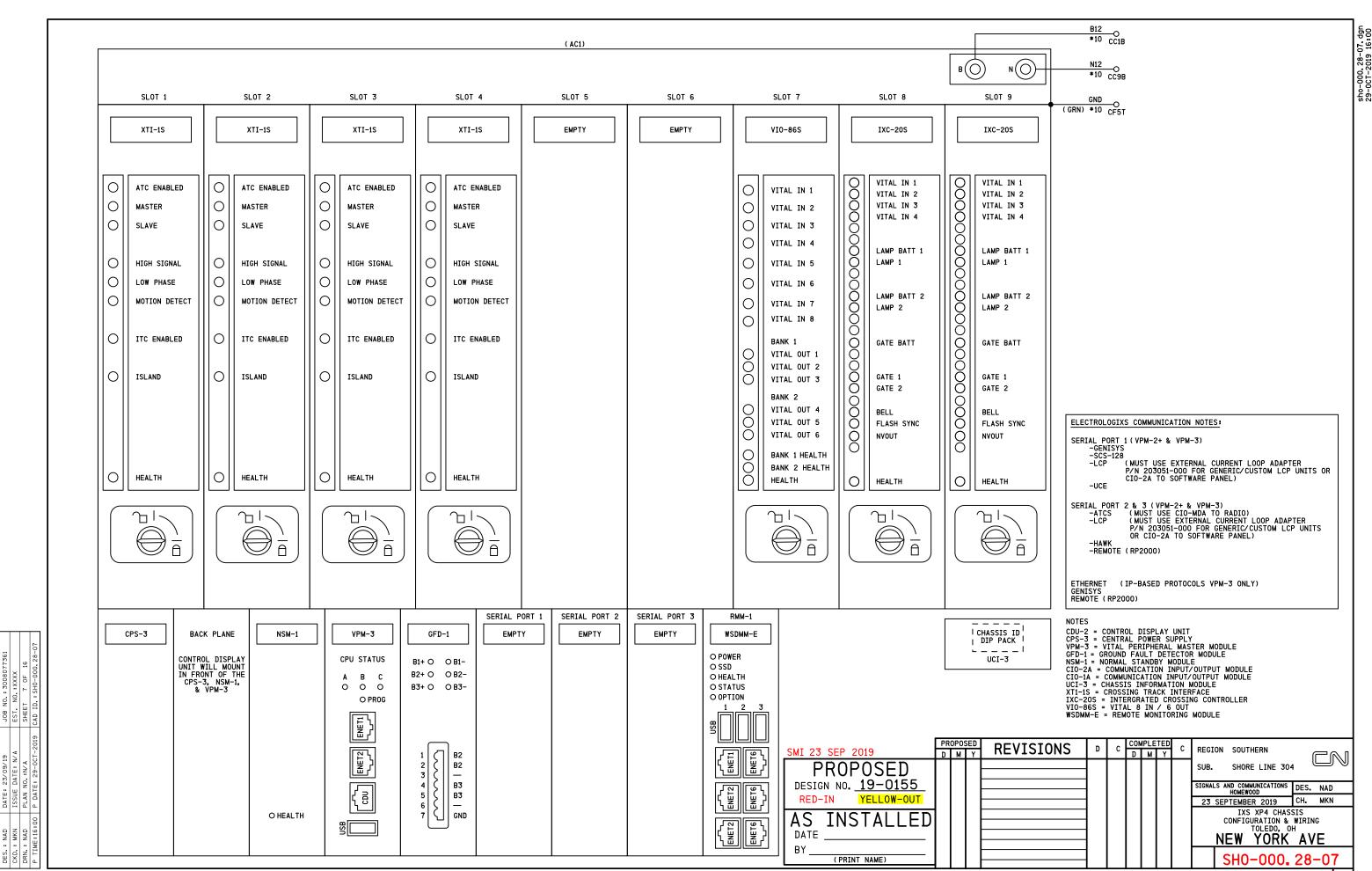
2) GATE DESCENT TIME (RELEASE FROM VERTICAL TO FULLY HORIZONTAL) TO BE WITHIN 11 SECONDS

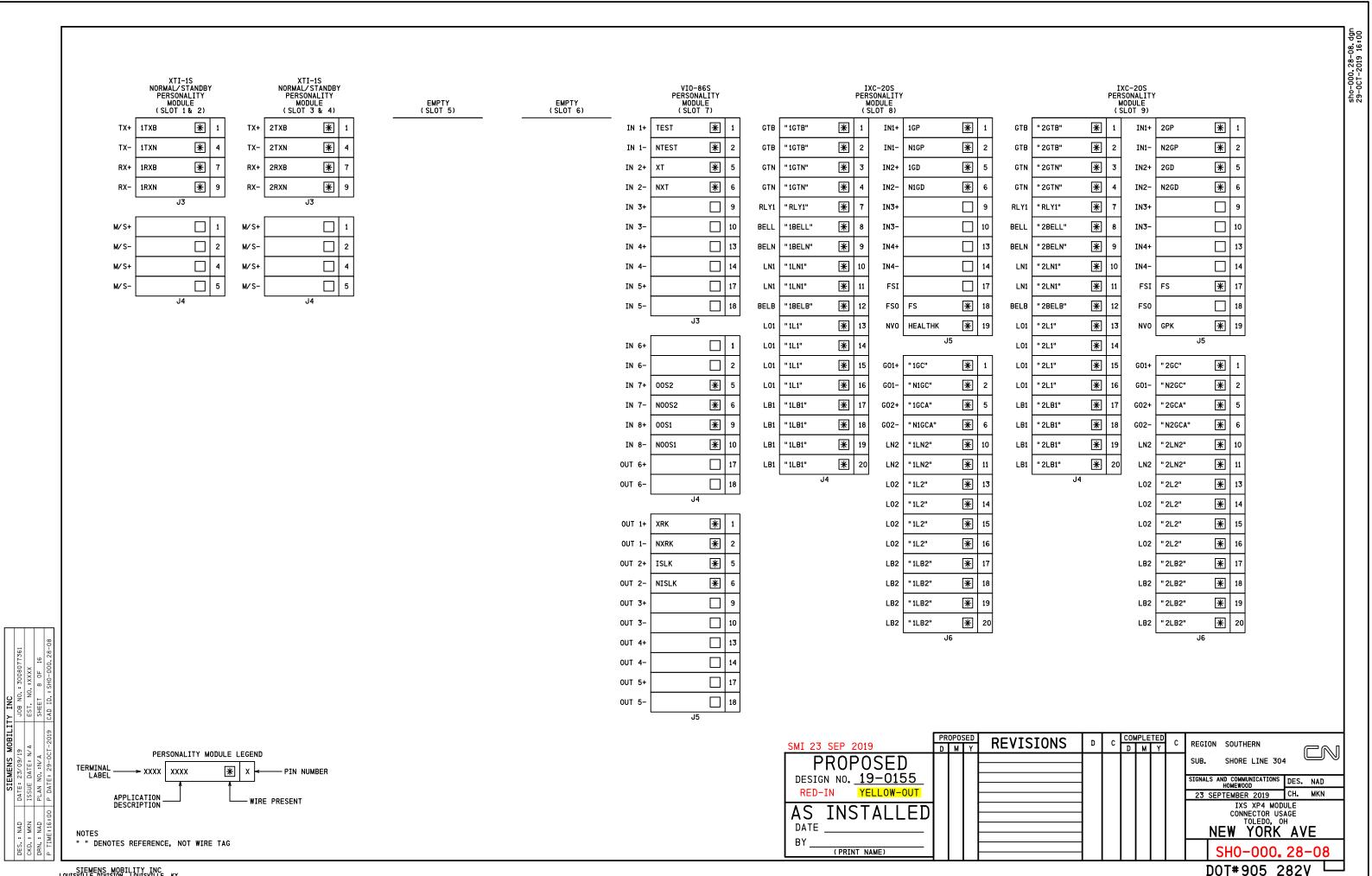


DOT#905 282V

1) ALL WIRING TO BE *10 AWG UNLESS OTHERWISE NOTED 2) GATE DESCENT TIME (RELEASE FROM VERTICAL TO FULLY HORIZONTAL) TO BE WITHIN 11 SECONDS

- 3) ENSURE ALL TERMINALS HAVE TWO SHOULDER NUTS 4) TERMINALS LOCATED IN GATE MECHANISM
- 5) DASHED LINES REPRESENT STRAPS ADD STRAP BETWEEN TERMINALS 3A & 3B, 3B & 4B





EXECUTIV	/E INFORMATI	ON
VPM-3	VERSION	CRC
VPM-A PROCESSOR	7. XX	XXXXXXX
VPM-B PROCESSOR	7. XX	XXXXXXX
VPM-C PROCESSOR	7. XX	xxxxxxx

APPLICATION S	OFTWARE INFORMATION
SH0-000. 28-XP4. MB1	CHECKSUM: XXXX / CRC: XXXX
REV.	A
SH0-000. 28-XP4V. B1	CHECKSUM: XXXX / CRC: XXXX
SH0-000, 28-XP4NV, B1	CHECKSUM: XXXX / CRC: XXXX
YEAR COMPILED	2019
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VPM3 ETHERNET SET	JP
PORT 1 (TOP) IP ADDRESS	192. 168. 0. 11
SUBNET MASK	255. 255. 255. 0
PORT 2 (BOTTOM) IP ADDRESS	192. 186. 1. 12
SUBNET MASK	255, 255, 255, 0
DEFAULT GATEWAY	0.0.0.0

VITAL T	IMER SETTING	SS
DESCRIPTION	TIMER	VALUE
MINIMUM WARNING TIME	MIN_ACT_T	20 SEC*

*-SET TO DEFAULT

DESCRIPTION FREQUENCY (HZ) MASTER/SLAVE TRANSMITTER CHECK (TI DIRECTION MODE (UNI/ LUMPED IMPEDANCE (LI NBS COMP RX TRACK ISLAND ASSIGN APPROACH LENGTH (FT) AUTO RX ADVANCED DESCRIPTION MOTION DET ENABL TIME ENABL APPROACH RELEASE LOSS OF SHUNT TIMER LOSS OF SHUNT TIMER IJ-LOS TIMER (SEC) APPROACH MAINTEN	APPROA	TRACK 1 790 MASTER # UNI # TKIISL 520 # CH SETTINGS TRACK 1 DISABLED N/A	TRACK 2 790 MASTER # UNI # TK2ISL 520 # TRACK 2 DISABLED N/A
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APPROACH RX TIME LOSS OF SHUNT TIMER IJ-LOS TIMER (SEC) APPROACH SETTING	SEC)	N/A	N/A
RELEASE TIME LOSS OF SHUNT TIMER IJ-LOS TIMER (SEC) APPROACH SETTING	=	DISABLED	DISABLED
LOSS OF SHUNT TIMER IJ-LOS TIMER (SEC) APPROACH SETTING		N/A	N/A
IJ-LOS TIMER (SEC) APPROACH SETTING	SEC)	N/A	N/A
APPROACH SETTING	(SEC)	30	30
		5	5
APPROACH MAINTEN		NORMAL	NORMAL
	ANCE S	ETTINGS	
DESCRIPTION		TRACK 1	TRACK 2
ENABLE/ DISABLE		ENABLED	ENABLED
DISABLE TIMEOUT			N/A
BALLAST COMP		N/A	
PHASE COMP		N/ A *	*

MD	R CONFIGURATI	ON SETTINGS		
DESCRIPTION		MDR1	MDR2	
WARNING TIME	SEC)	30	30	
CW/MD		CW	CW	
ADV PREEMPT T	IME (SEC)	N/A	N/A	
CWE WARNING T	IME (SEC)	80	80	
AUX RECOVERY	DELAY (SEC)	5	5	
	MDR TRACK PA	RAMETERS		
DESCRIPTION		TRACK 1	TRACK 2	
TRACK ASSIGNE	י	ASSIGNED	ASSIGNED	
OFFSET DISTAN	CE (FT)	0	0	
MD RESTART RX		50	50	
SUDDEN SHUNT	ZONE RX	0	0	
	ENABLE	DISABLED	DISABLED	
POSITIVE START	RX	0	0	
	TIME (SEC)	0	0	
	ENABLE	ENABLED	ENABLED	
POST JOINT DETECTION	RX	15	15	
	TIME (SEC)	15	15	
	MODE	STANDARD	STANDARD	
CLEAR JOINT LOS	RX	15	15	
	TIME (SEC)	30	30	

TTINGS	
SLOT 8	SLOT 9
55	55
0FF	0FF
12. 0	12.0
12.0	12.0
4	4
N/A	N/A
	55 0FF 12. 0 12. 0 4

GFD	-1 SETTINGS		
DESCRIPTION	BATTERY 1	BATTERY 2	BATTERY 3
BATTERY NAME	B12	XB12	N/A
CALIBRATED VOLTAGE	*	*	N/A
FAULT THRESHOLD (Ka)	10	10	N/A
GROUND FAULT TIME (SEC)	5	5	N/A
LOW BATT ALARM VOLTAGE	*	*	N/A
HIGH BATT ALARM VOLTAGE	*	*	N/A

IS	LAND SETUP		
DESCRIPTION	TRACK 1	TRACK 2	XT
ENABLE/ DISABLE	DISABLE	DISABLE	N/A
EXTERNAL ISLAND INPUT	N/A	N/A	SLOT 7 IN2
FREQUENCY (KHZ)	N/A	N/A	N/A
LOSS OF SHUNT (SEC)	N/A	N/A	2
FAULT DELAY	N/A	N/ A	N/A

	SMI 23 SEP 2019	_	OPOSI M	_	REVISIONS	D	С	COM D	PLE	_	С	REGION	SOUTHERN	(
CONFIRM ALL PROGRAM DETAILS	PROPOSED			Ŀ								SUB.	SHORE LINE 304	, (
TO BE CONFIRMED	DESIGN NO. 19-0155 RED-IN YELLOW-OUT			ŀ									AND COMMUNICATIONS HOMEWOOD PTEMBER 2019	DES.	NAD MKN
CONFIRMED ATE	AS INSTALLED			-									IXS XP4 PROGRAM INFORM TOLEDO, O	ATION	
(PRINT NAME)	BY(PRINT_NAME)											9,	SH0-000.	28	-09

* DENOTES FIELD ADJUSTMENT REQUIRED

SIEMENS MOBILITY INC LOUISVILLE DIVISION, LOUISVILLE, KY

FURTHER CONFIGURATION DETAILS TBD

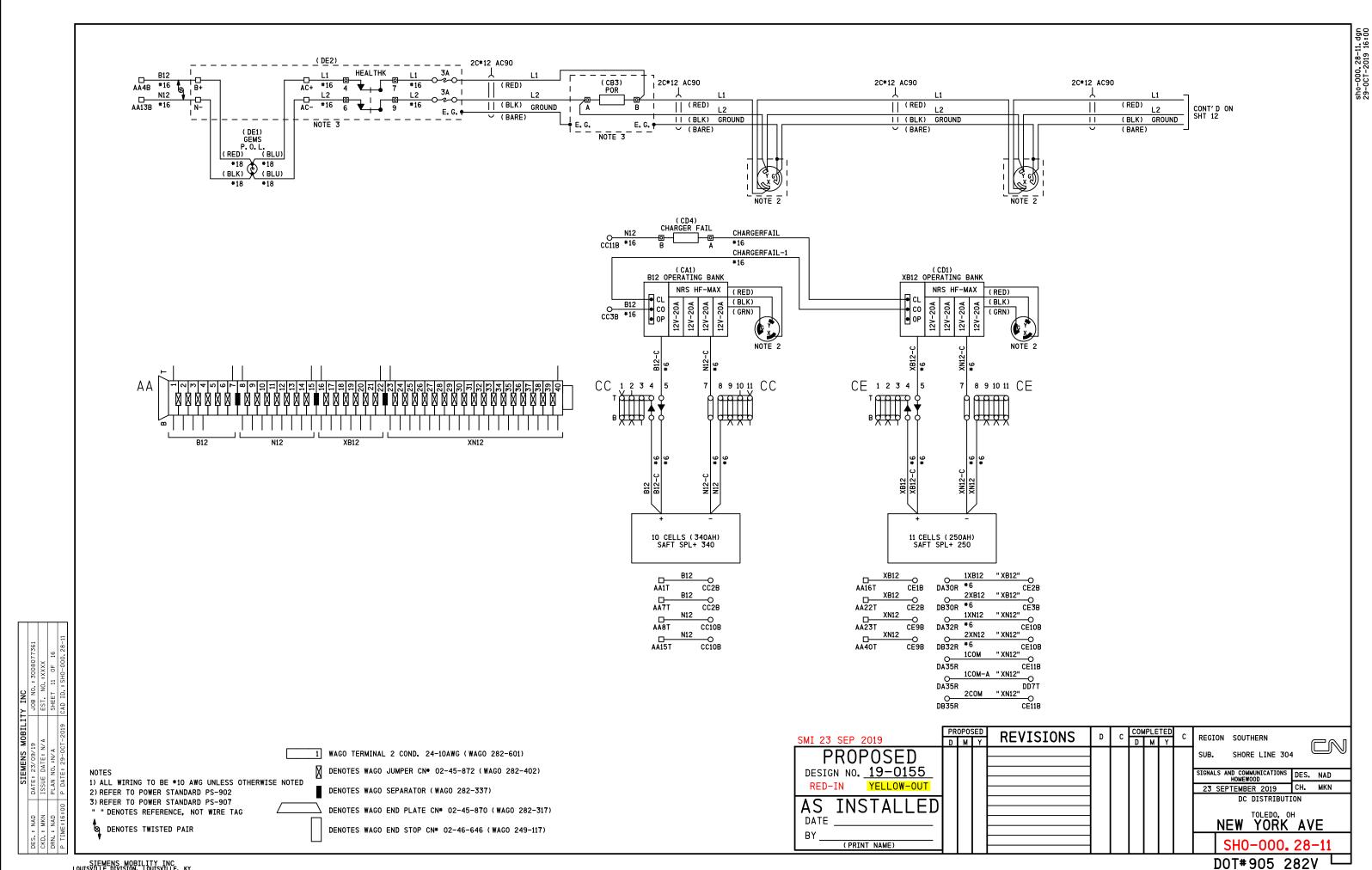
WSDMM CONFIGURA	TION
IP ADDRESS	192, 168, 0, 101
SUBNET MASK	255. 255. 255. 0
DEFAULT GATEWAY	192. 168. 0. 100
HOSTNAME	SH0-000.28-WSDMM
TIMEZONE	-5/NEW_YORK

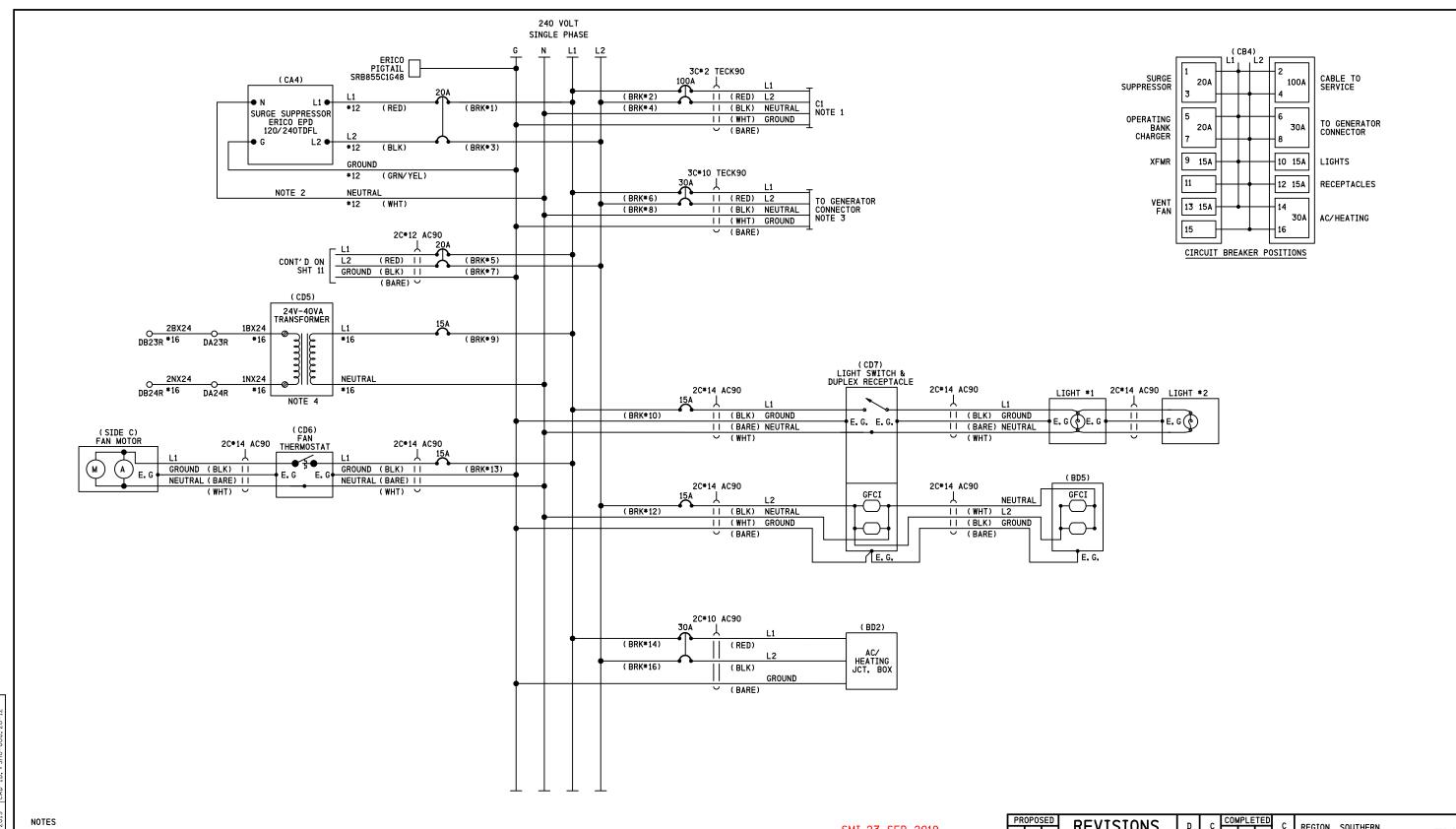
DAU CONFIGURATI	ON
IP ADDRESS	192. 168. 0. 205
SUBNET MASK	255, 255, 255, 0
DEFAULT GATEWAY	192. 168. 0. 100
HOSTNAME	SH0-000. 28-DAU
TIMEZONE	-5/NEW_YORK

| SIEMENS MOBILITY INC | S.: NAD | DATE: 23/09/19 | JOB NO.: 3008077361 | J.: NAD | ISSUE DATE: N/A | EST. NO.: XXXX | S.: NAD | PLAN NO.: N/A | SHEET 10 OF 16 | SHO-000.28-10

PROPOSED
D M Y REVISIONS D REGION SOUTHERN SMI 23 SEP 2019 FIELD TO CONFIRM ALL CONFIGURATION DETAILS PROPOSED
DESIGN NO. 19-0155
RED-IN YELLOW-OUT SHORE LINE 304 SIGNALS AND COMMUNICATIONS DES. NAD HOMEWOOD CH. MKN TO BE CONFIRMED CROSSING MONITORING
CONFIGURATIONS
TOLEDO, OH
NEW YORK AVE CONFIRMED AS INSTALLED DATE (PRINT NAME) SH0-000. 28-10 (PRINT NAME)

SIEMENS MOBILITY INC LOUISVILLE DIVISION, LOUISVILLE, KY





SUE SUE

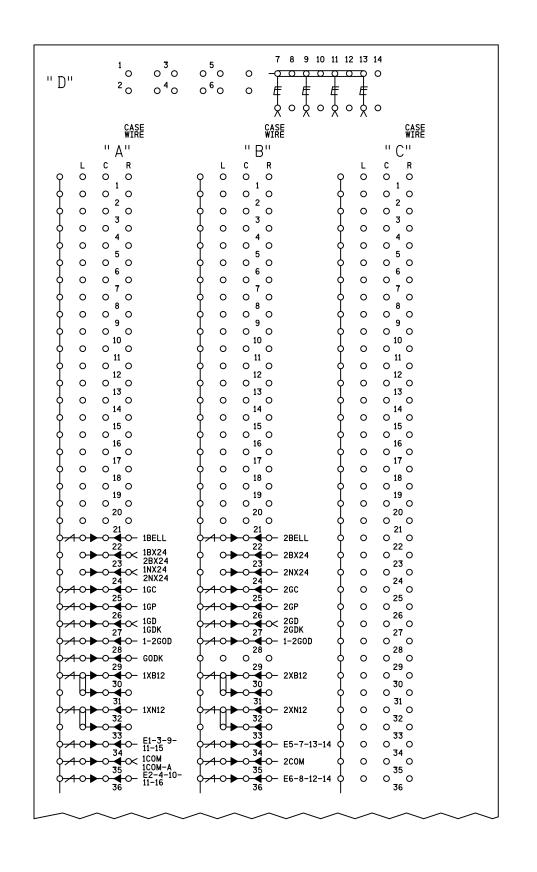
1) CIRCUIT BREAKER NOT TO EXCEED 100 AMPERES RETAINING KIT PK2MB MUST BE USED WITH 100A BREAKER FEEDER CIRCUIT BREAKER AT STUB POLE SERVICE PANEL NOT TO EXCEED 100 AMPERES WHERE SEPARATE GROUND WIRE EXISTS BETWEEN THE SERVICE AND THE LOAD CENTER, REMOVE THE BRASS COLORED BONDING SCREW (REFER TO SCHEMATIC ON BOX COVER FOR EXACT LOCATION) 2) KEEP LEADS AS SHORT AS POSSIBLE

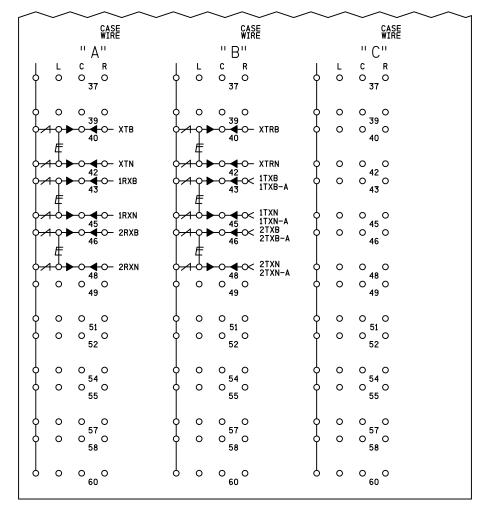
3) A TRANSFER SWITCH KIT MUST BE INSTALLED BETWEEN
THE SERVICE DISCONNECT BREAKER AND THE GENERATOR HOOK UP
MANUAL TRANSFER EQUIPMENT KIT PK4DTIM4LA

DATE 4) REFER TO PS-904

REVISIONS D SMI 23 SEP 2019 REGION SOUTHERN D M Y **PROPOSED** SHORE LINE 304 DESIGN NO. 19-0155 SIGNALS AND COMMUNICATIONS DES. NAD RED-IN YELLOW-OUT 23 SEPTEMBER 2019 CH. MKN AC DISTRIBUTION NEW YORK AVE (PRINT NAME) SH0-000. 28-12

sho-000, 28-12, dgn 29-0CT-2019 16:01



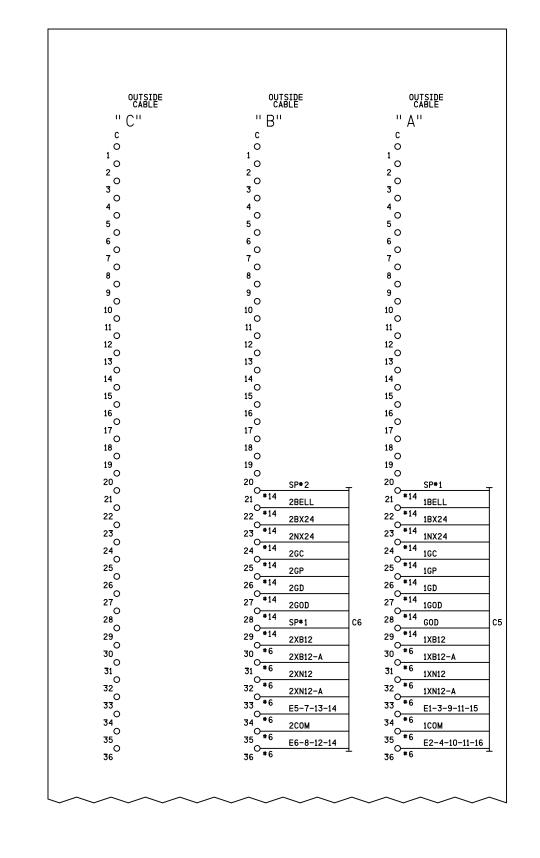


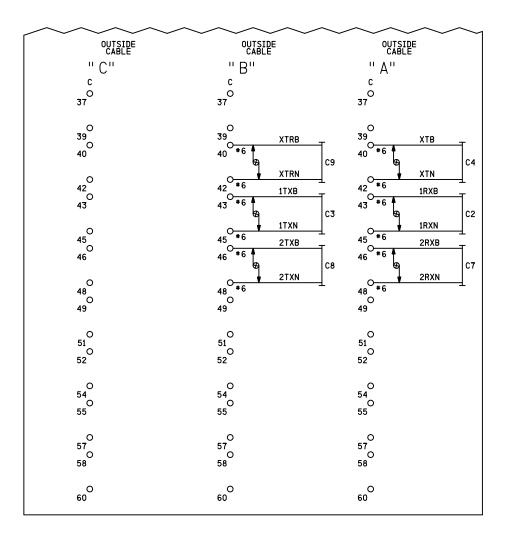
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NOTES

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MI 23 SEP 2019	PR(OPOS M	ED Y	REVISIONS	D	С	COM D	IPLE M	TED Y	С	REGION SOUTHERN	
PROPOSED_											SUB. SHORE LINE 304	
DESIGN NO. 19-0155							Ш				SIGNALS AND COMMUNICATIONS D	DES. NAD
RED-IN YELLOW-OUT					1		Ш				23 SEPTEMBER 2019	CH. MKN
AS INSTALLED											MAIN TERMINAL BO INSIDE DETAIL SII TOLEDO. OH	
DATE							Ш					AVE
BY(PRINT NAME)											SH0-000. 2	28-13





SMI 23 SEP 2019

PROPOSED
DESIGN NO. 19-0155
RED-IN YELLOW-OUT

AS INSTALLED
DATE
BY
(PRINT NAME)

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DES.: NAD
CKD.: MKN
DRN.: NAD
P TIME:16:

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SH0-000. 28-14

SHORE LINE 304

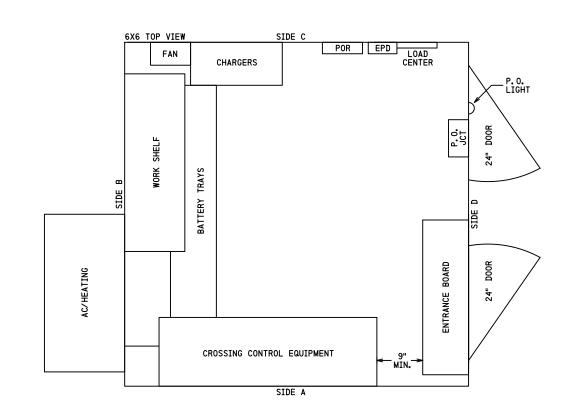
SIGNALS AND COMMUNICATIONS DES. NAD

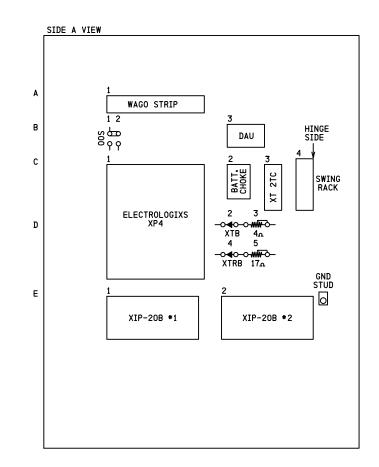
23 SEPTEMBER 2019 CH. MKN

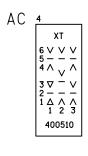
MAIN TERMINAL BOARD
OUTSIDE DETAIL SIDE D
TOLEDO, OH
NEW YORK AVE

REGION SOUTHERN

SUB.







sho-000,28-15,dgn 29-0CT-2019 16:01

31LITY INC	JOB NO. : 300807736	EST. NO.:XXXX	SHEET 15 OF 16	P TIME:16:01 P DATE: 29-0CT-2019 CAD ID.:SH0-000.28	
SIEMENS MOBILITY INC	DATE: 23/09/19	ISSUE DATE: N/A	PLAN NO.:N/A	P DATE: 29-0CT-2	
	DES.: NAD	CKD: MKN	DRN.: NAD	P TIME:16:01	

SMI 23 SEP 2019

PROPOSED
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REVISIONS
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SUB. SHORE LINE 304

SIGNALS AND COMMUNICATIONS DES. NAD HOMEWOOD
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AS INSTALLED
DATE
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(PRINT NAME)

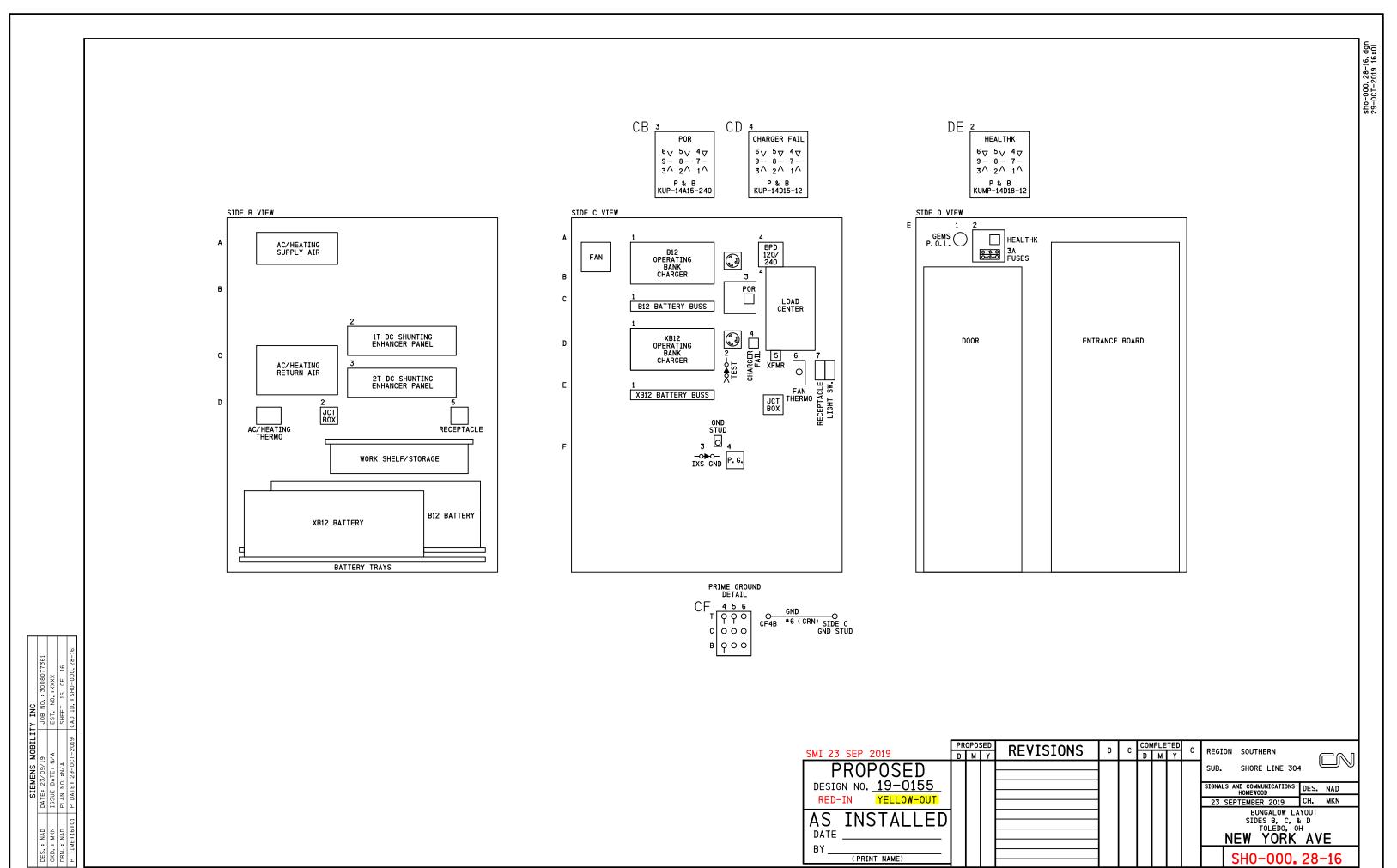
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SUB. SHORE LINE 304

SIGNALS AND COMMUNICATIONS DES. NAD
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TOLEDO, OH
NEW YORK AVE

SHO-000. 28-15

SIEMENS MOBILITY INC LOUISVILLE, KY



SIEMENS MOBILITY INC LOUISVILLE DIVISION, LOUISVILLE, KY

OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • James G. Bradley, Chairman

July 8, 2019

Mr. Tomas Brasseur Grand Trunk Western Railroad Manager of Public Works 24002 Vreeland Road Flat Rock, MI 48134

RE: Grade Crossing Warning Device Upgrade Authorization to Proceed with Final Engineering Design

Lucas County, New York Ave.; DOT #905282V; Ohio PID# 104588; GTWR

Dear Mr. Brasseur:

A diagnostic review was held at the above grade crossing on 10/21/2016. The crossing was recommended for the installation of automatic flashing lights and gates. The Ohio Rail Development Commission has reviewed the GTWR submitted preliminary engineering design, site plans and cost estimates for the crossing improvement and ORDC has approved the preliminary plans for final design.

The GTWR is authorized to proceed with final engineering design, including circuitry plans, site plans and cost estimate updates for the referenced railroad crossing. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins, and that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

The ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the Final Engineering Design it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the Engineering Design to ORDC within 90 days of receipt of this letter.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to requirements for this crossing. Minor roadway or sidewalk work necessary for MUTCD compliance should be incorporated into the Site Layout Plan and such costs will flow through the railroad reimbursement process.

The ORDC Project Manager for this project is Don Damron. If you have any questions, I can be reached at 614-466-2509 (office), or 614-917-8466 (cell), or don.damron@dot.state.oh.us.

Sincerely,

Donald J. Damron Project Manager

Copy: Randall Schumacher, Chief, Rail Division, PUCO

Jill Henry, Rail Specialist, PUCO

ORDC (file)

Attachments: Diagnostic Review Team Survey dated 10/21/2016

ORDC Letter Agreement dated 6/26//2017

State of Ohio Purchase Order



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY



Commissioners

Lynn Slaby M. Beth Trombold Thomas W. Johnson Lawrence K. Friedeman

June 26, 2017

Grand Trunk Western Railroad Mr. Tomas Brasseur Manager of Public Works 24002 Vreeland Road Flat Rock, MI 48134

> Re: 1) Lucas County, New York Avenue, DOT#905-282V, hereinafter referred to as the "Project"

Dear Mr. Brasseur:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on October 21, 2016, the above mentioned grade crossing for warning device upgrades. The location has been approved for flashing lights and roadway gates.

The Project shall comply with Agreement No. 5927, dated May 24, 1989, entered into by the State of Ohio and Grand Trunk Western Railroad (hereinafter referred to as the "RAILROAD"). Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Reimbursable costs will be limited by ORDC based upon approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to the RAILROAD and may be amended by the ORDC based upon revised estimates and bid tabulations. Additional costs must be approved in writing by the ORDC prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

The RAILROAD shall complete plans and estimates for the Project within ninety (90) days after the RAILROAD is notified of authorization to proceed unless otherwise agreed by ORDC/PUCO and the RAILROAD.

The RAILROAD shall not commence construction prior to PUCO's Order or ORDC's construction authorization. The RAILROAD shall provide written notification of the construction start date to PUCO and ORDC no later than five (5) business days prior to such date.

Page 2 of 2 Lucas County New York Avenue Letter Agreement

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Rail Specialist, Rail Division, Public Utilities Commission of Ohio, 180 E. Broad Street, Columbus, Ohio 43215-3793.

Sincerely,

Miles allowech

	Milan Orbovich Director of Transportation Public Utilities Commission of Ohio
	Date 6/26/17
Grand Trunk Western Railroad By Title	Matthew Dietrich Executive Director Ohio Rail Development Commission
Date	Date 7/27/17

Date _____

Page 2 of 2 Lucas County New York Avenue Letter Agreement

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Rail Specialist, Rail Division, Public Utilities Commission of Ohio, 180 E. Broad Street, Columbus, Ohio 43215-3793.

	Sincerely,
	guled Aleveck
	Milan Orbovich Director of Transportation Public Utilities Commission of Ohio
	Date 6/26/17
Grand Trunk Western Railroad	
By/	Matthew Dietrich Executive Director
Title Regional Chief Engineer	Ohio Rail Development Commission
Date February 27,2018	Date
/	

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	rmula ··		Date: 10	0/21/2016
Location Data				
Street or Road Name: New York Aver	iue			
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.:	905282V
County: LUC Township:		City: (In or Near)	City of Tole	
Railroad Name: Grand Trunk Western RR	Railroad Division:			Branch/Line Name:
Nearest RR Timetable Station:			RR Milepos	^c .44
On-Site Review Team				
	DRDC 6/4 NRAIL (SIGNALS) UCO (4	19) 340-10	60 No 11 nathar 1431	damronadot chio gou a te warne ecn.ca nna epuc state oh. US 0649
6. Tim Grosfein CH	y of tolado 419	245-1344	+im.01	osiean @ toledooboor
	of Polery 410.	-245-1337	Tim, land	osjean @ tolebech.gov
				<u>-</u>
o .				
8				
8 9		-		
89				
8 9 Existing Traffic Control Devices	22.00 C	ed?		Quantity/Comments
Type of Warning Devices	Installe			Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?)	22.00 C	□No		Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Installe Ves Yes	□ No ☑ No		Quantity/Comments
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	Installe Ves Yes Yes	□No	STOP	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Installe Yes Yes Yes Yes	□ No ☑ No ☑ No		Bars NEED REFRESHING
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Installe Ves Yes Yes	☐ No ☐ No ☐ No	WITH	
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Installe Ves Yes Yes Ves Ves	☐ No ☑ No ☐ No ☐ No	WITH	BARS NEED REFRESHING
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Installe Yes Yes Yes Yes Yes Yes Yes	□ No □ No □ No □ No □ No	WITH	BARS NEED REFRESHING
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Installe Ves Yes Yes Yes Yes Yes Yes Ye	□ No	WITH	BARS NEED REFRESHING
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Installe Yes Yes Yes Yes Yes Yes Yes	□ No	WITH	Bars NEED REFRESHING H KIELDS L TRACK
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Installe Ves Yes Yes Ves Ves Yes Yes Ye	□ No	WITH	BARS NEED REFRESHING H KIELDS L TRACK
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Installe Yes Yes Yes Yes Yes Yes Yes	□ No	WITH	BARS NEED REFRESHING TRACK Length:
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Installer res	□ No	With ONE Number	BARS NEED REFRESHING TRACK Length:
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Installe Yes Yes Yes Yes Yes Yes Yes	□ No	Number Number	BARS NEED REFRESHING TRACK Length:
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Installe Yes Yes	No No No No No No No No	Number Number	BARS NEED REFRESHING TRACK Length:
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Installe Yes Ye	□ No	Number Number	BARS NEED REFRESHING TRACK Length:
Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Installe Yes Yes	□ No	Number Number	BARS NEED REFRESHING TRACK Length:

Safety Data (Obtain o	rash repo	rts, if possible, prior to review)		
	lnit	ial Information (from database)	Revised	
Number & dates of crashes in previous 5 years	s 1 (3/5/16) & (1/20/03)			
Hazard Ranking	197	Date Run: 9/30/16		
Railroad Data				
Railroad Character	istics	Initial Information (from database)	Revised	
Total trains per day		2	UP TO 4 TRAINS/DAY	
< I per day				
Day thru trains		i .		
Night thru trains		1		
Daytime switching movements				
Nighttime switching move	ements			
Total number of tracks		1		
Number of main tracks		1	·	
Number of other tracks				
Maximum train speed		10	OK	
Typical train speed		10	OK	
Amtrak				
If non-gated crossing, is clear	ing sight distan	ce adequate in all quadrants? (See Table 1)	¥Yes □ No	
Can one or more tracks be e	eliminated thro	another train at crossing? Tes (Explain be ugh the crossing? Yes Mo roadway within 100 ft of this crossing?		
If yes, Crossing DOT #(if If yes, distance	different)	asurement between track centerlines at close	_	
Roadway Data				
Local Highway Authority:		City of Toledo		
Roadway Characte	ristics	Initial Information (from database)	Revised	
Average daily traffic		2500 (2012)	NO UPDATE PROVIDED	
Highway paved		X Yes No	Yes No	
Roadway Surface: Blackt	op Gravel	Concrete Other		
Roadway width: 22 ft.				
Number of highway lanes		2		
Urban or Rural		Rusai	URBAN	
Vehicle Speed: 25_MPH			35 MPH EAST BOUND	
School Bus Operation:	V0 []	es Amount	AT LEAST 4/DAY	
	Yes		UNKNOWN	
Is the shoulder surfaced? Vo Yes				
Is there existing guardrail alc				
Is stopping site distance adec	uate? (See Tal	ole 2) Uses No If no, deficient	approach(es)	

Quadrant Curb and Gutter:	Quadrant 5W Curb and Gutter:			
Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)			
☐ Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")			
None	None			
Pedestrians: No FYes				
Is sidewalk present? 다이 다 Yes				
Is there a nearby intersection that could cause queuing over the c	rossing? [I] No [] Yes			
If yes, Distance				
Is this intersection signalized? Yo Yes				
Are the signals currently interconnected with the existing cross	ing warning devices? 🔟 No 🔲 Yes			
Is there a 'Do not Stop on Track' sign? 😥 No 🔲 Yes				
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future?				
If yes, Improvement typeLead Agency	Timeline/completion -			
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	Deenual closure project: 1/2/190			
Type of Development				
Open Space Institutional Location of nearby	y schools:			
Industrial Commercial Schools o	N EAST SIDE OF CRUSSING			
Residential				
Utility Information	nings, spenings of the second			
Is commercial power available? No Yes				
Utility Provider (Company Name) TOLEDO EDISON	Phone Number			
Nearest Available Power Source AT - SITE				
What other utilities are present?				
Is(are) there potential utility conflict(s) Yes Unknown				
Comments:				
MULTIPLE POTENTIAL CONFLICTS:				
- UG FIBER - BOTH SIDES - PARRALLEC TO ROADWAY - UG GAS - NE QUAD - PARRALLEC TO ROADWAY				
-UG FIBER - 11 "	10 00 18			

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
MA
Crossing Consolidation or Closure:
NA
Real Estate or ROW:
NA ·
Culverts / Drainage / Ballast Conditions:
NEW TIMBER SURFACE RECENTLY INSTALLED.
Roadway and/or Sidewalks:
ROADWAY ROW = 60'
RAILROAD ROW SHOULD BE APEQUATE
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
BONDING RAIL JOINTS FOR APPROACHES NEEDED.
Environmental:
NA NA
Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
☑ AFLS / Gates	
☐ AFLS / Gates / Cants	
🔼 Bells / number	2 BELLS STANDARD ON GTW
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
☐ Install/Repiace curb	
🔀 Bungalow placement & offset from rail & highway	NE QUAD
Other (define)	
CONSENSUS: UPGRADE TO LIE	471 & GATES
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	-
Acknowledgement of Recommendations (each entity represented acknowledgement):	
Field Dimensions	
Sidewalk Show North Direction	
Roadway Roadway Parkway Sidewalk	
Silvewalk	

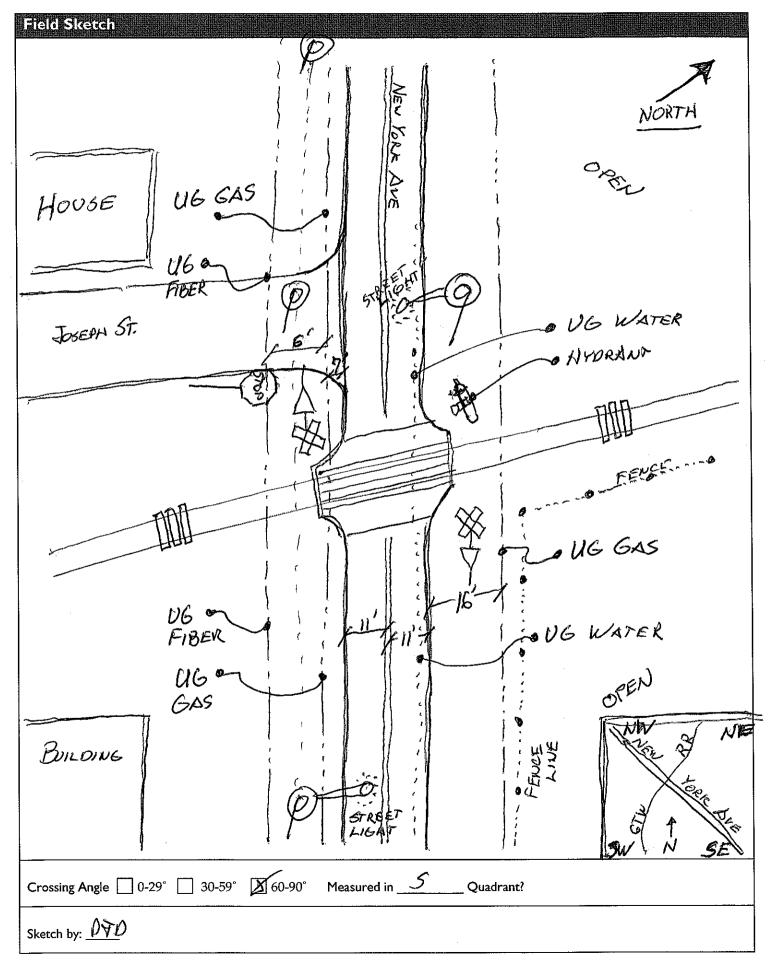


TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1-10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
(35)	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

2/18/2020 4:08:02 PM

in

Case No(s). 20-0395-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Grand Trunk Western Railroad Crossing, New York Avenue, DOT#905-282V, in Lucas County, Ohio electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division