

# READING & NORTHERN RAILROAD

*2011 Regional Railroad of the Year*

1 Railroad Blvd, P.O. Box 218, Port Clinton, PA 19549

Phone: 610.562.2100 Fax: 610.562.1920 www.READINGNORTHERN.COM

July 20, 2015

A-2015-2475025

TO ALL PARTIES

To Whom It May Concern:

In accordance to the June 25, 2015 letter regarding the alteration of the Foote Ave crossing, Reading Blue Mountain and Northern Railroad (RBMN) is submitting a situational plan and circuitry plan. Both plans are for all parties to review. RBMN is requesting the Commission's approval on both the situational plan and circuitry plan.

A copy of this letter, situational plan, and circuitry plan is being sent to all parties of record simultaneously with this submission to the Public Utility Commission.

Regards,



Erik Yoder  
Assistant VP Maintenance of Way  
Reading Blue Mountain and Northern Railroad  
610-562-2100

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2015 JUL 22 AM 10:32  
SECRETARY'S BUREAU



SERVING OUR CUSTOMERS AND THE ENVIRONMENT

REVISIONS

1 DATE JMB

AUTOMATIC SIGNAL IS INSTALLED

INDEX		REVISIONS									
		1	2	3	4	5	6	7	8	9	10
1	TITLE, INDEX & REVISIONS	✓									
2	LOCATION PLAN	✓									
3	POWER DISTRIBUTION	✓									
4	SIGNAL AND CROSSING INTERCONNECT CIRCUITS	✓									
5	GENRAKODE AND SIGNAL CIRCUITS	✓									
6	FOOTE AVENUE CROSSING CONTROL CIRCUITS	✓									
7	GCP 3000 PARAMETERS - FOOTE AVENUE	✓									
8	BOYLAN DRIVE CROSSING CONTROL CIRCUITS	✓									
9	GCP 3000 PARAMETERS - BOYLAN DRIVE	✓									
10	CASE LAYOUT (FRONT)	✓									
11	CASE LAYOUT (REAR)	✓									
12											
13											
14											
15											

2015 JUL 22 AM 10:32  
 SECRETARY'S OFFICE  
 PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

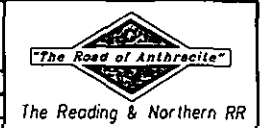
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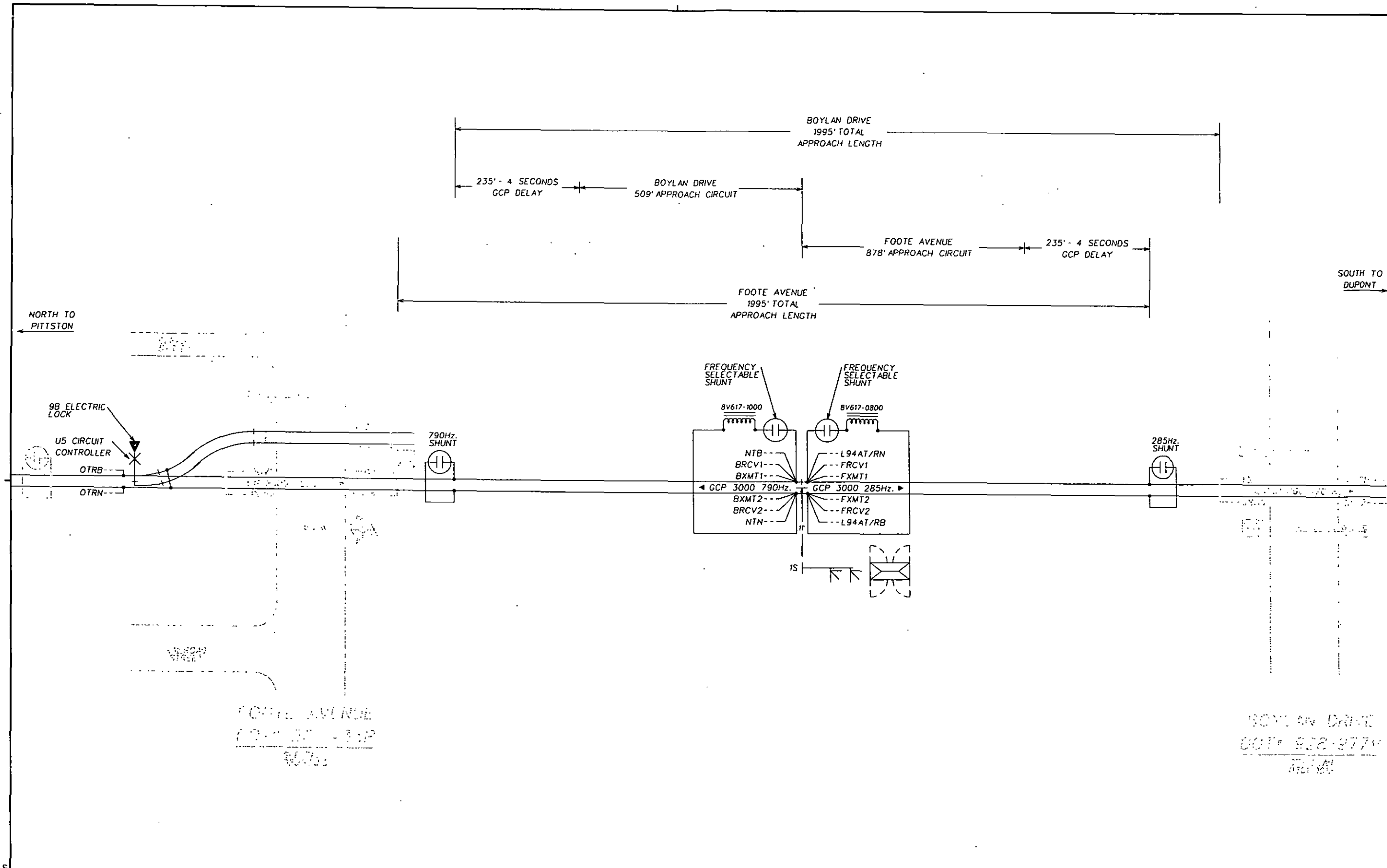
TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

TITLE, INDEX & REVISIONS

LOCATION: DURYEA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.8

ISSUE DATE:  
 REV. 1  
 PLAN: 0501-001B  
 SHEET: 1



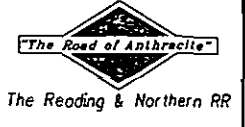


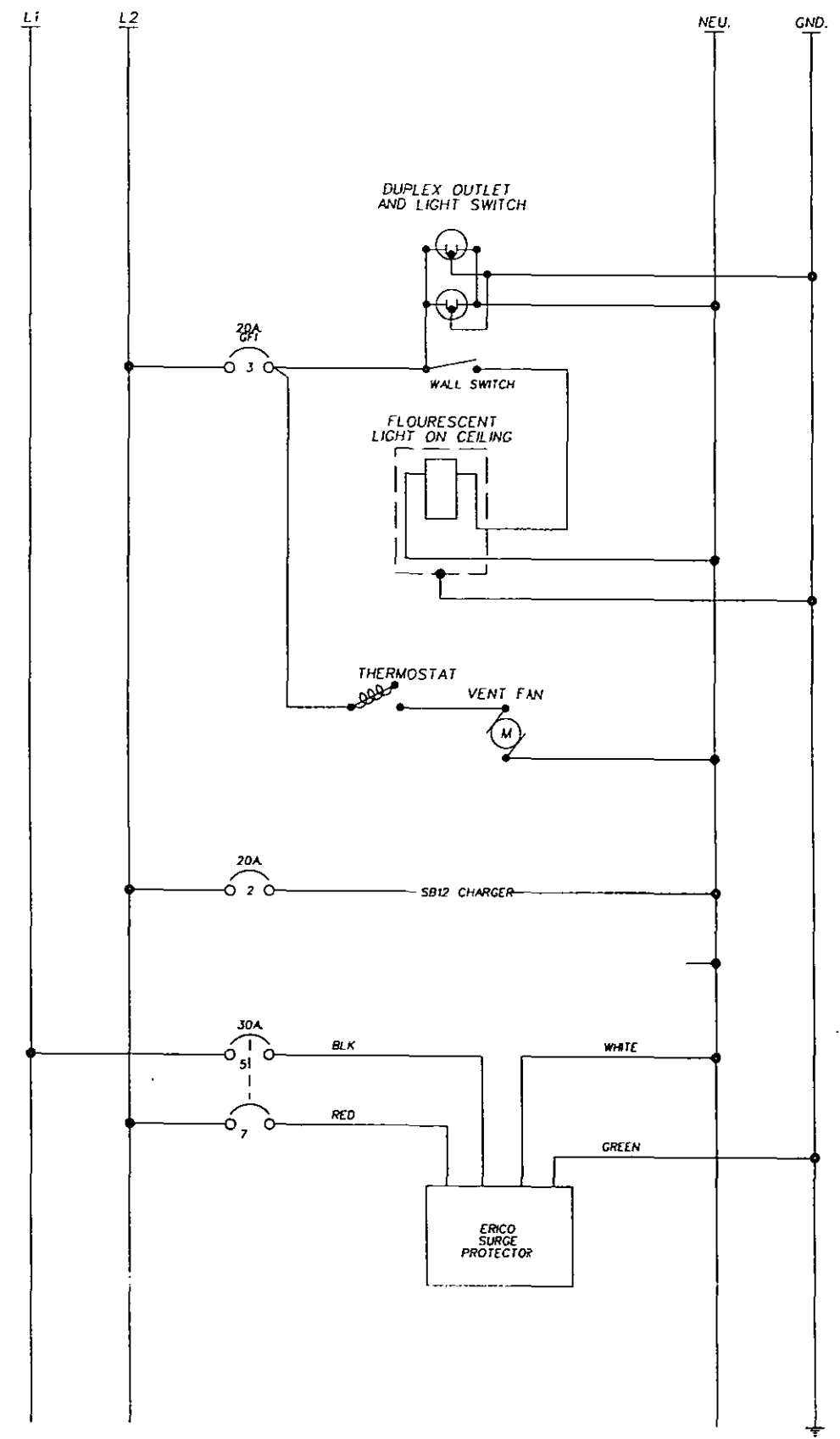
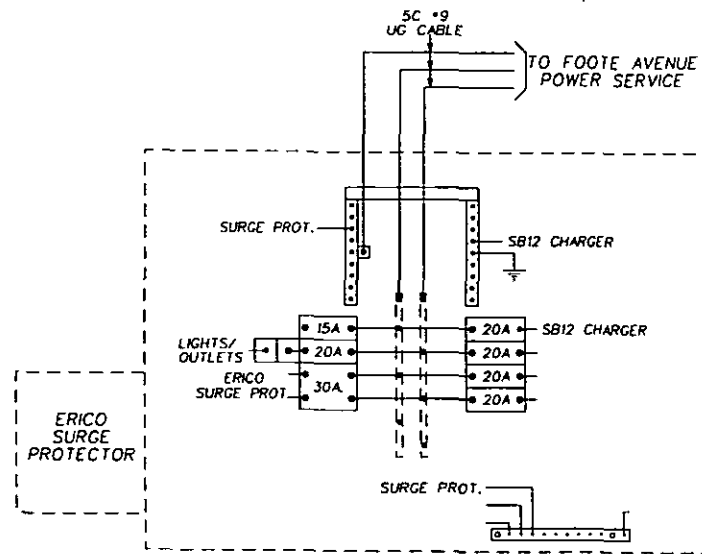
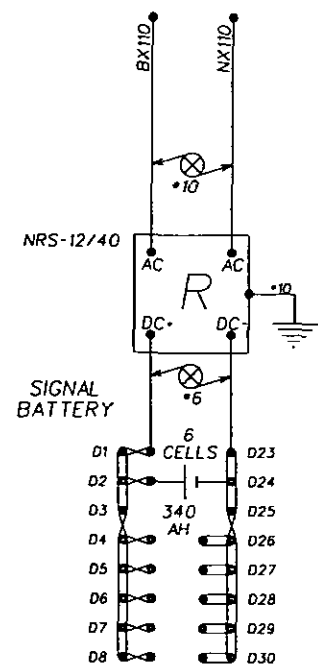
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TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

LOCATION PLAN

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA	REV. 1	
MILEPOST:	1.8	PLAN:	0501-0018
		SHEET:	2





0501.0018.003.dgn

TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

POWER DISTRIBUTION

LOCATION:

DURYEA, PA

ISSUE DATE:

LINE/BRANCH:

SUSQUEHANNA BRANCH

REV. 1

MILEPOST:

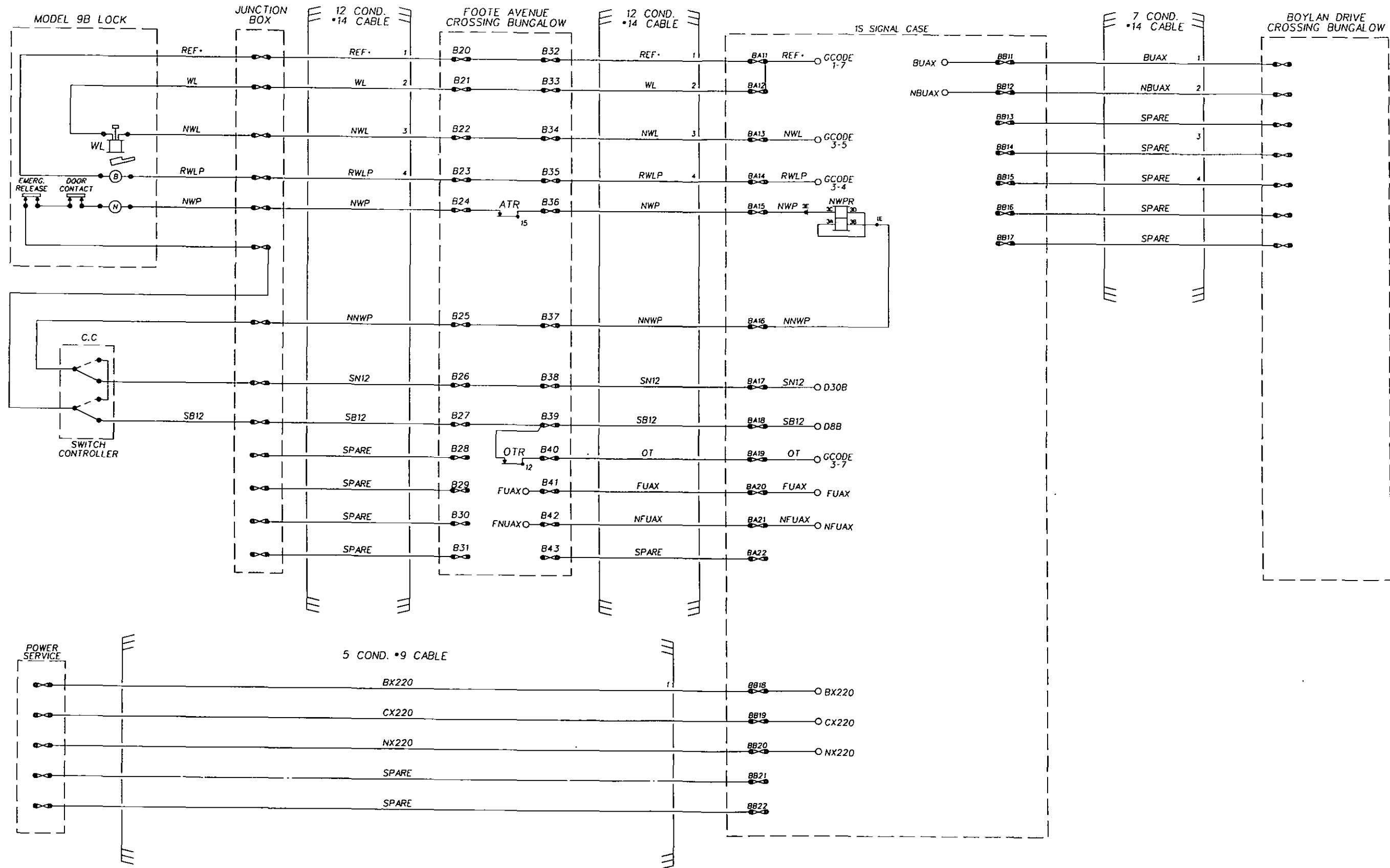
1.8

PLAN: 0501-0018

SHEET

3





NOTES: ALL WIRING TO BE \*16 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

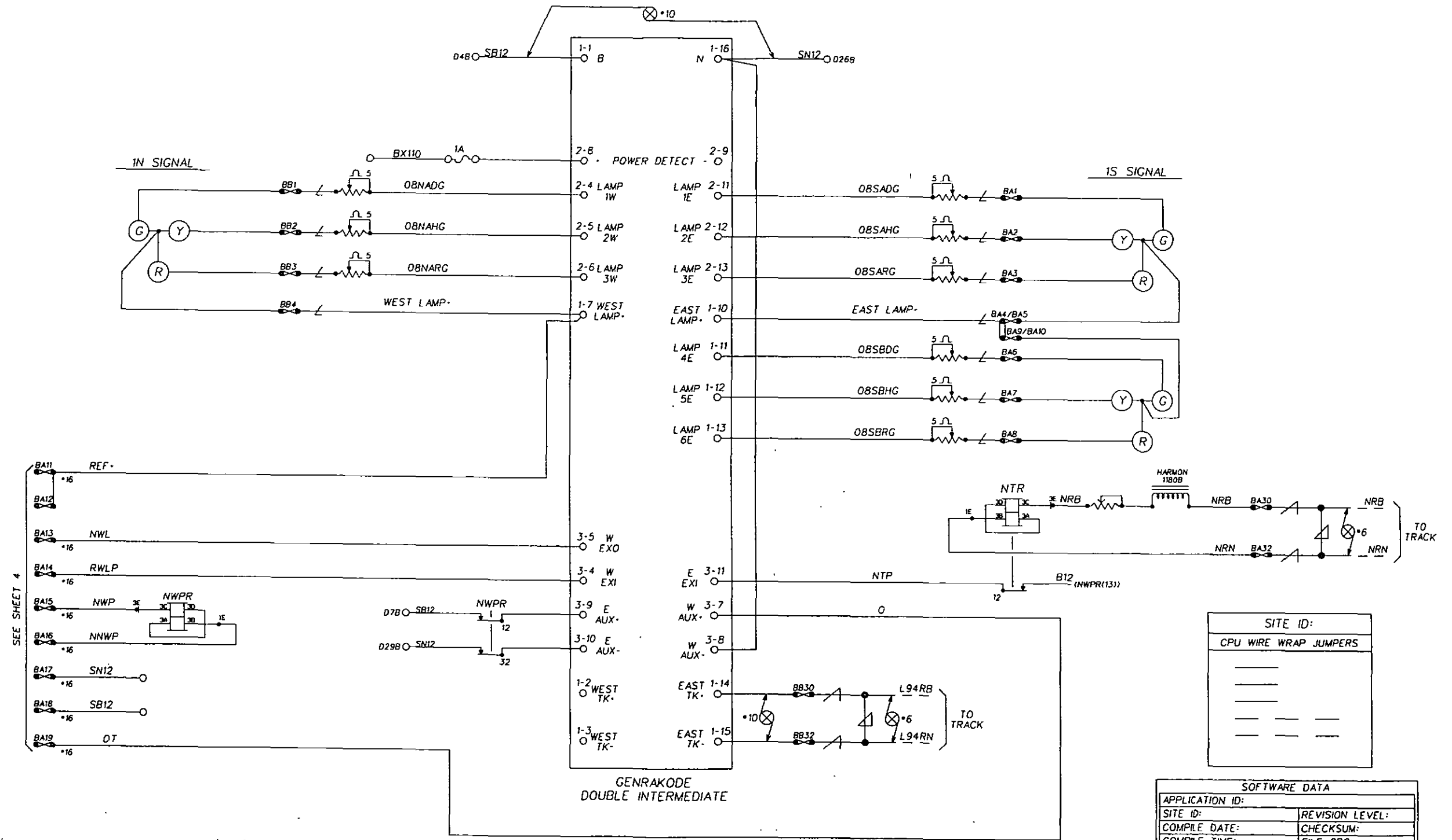
SIGNAL AND CROSSING  
INTERCONNECT CIRCUITS

LOCATION:	DURYEPA, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.8

ISSUE DATE:	
REV. 1	
PLAN:	0501-0018
SHEET	4



0501.0018.004.dgn



SEE SHEET 4

SITE ID:	
CPU WIRE WRAP JUMPERS	

SOFTWARE DATA	
APPLICATION ID:	
SITE ID:	REVISION LEVEL:
COMPILE DATE:	CHECKSUM:
COMPILE TIME:	FILE CRC:
APPLICATION LOGIC CRC:	

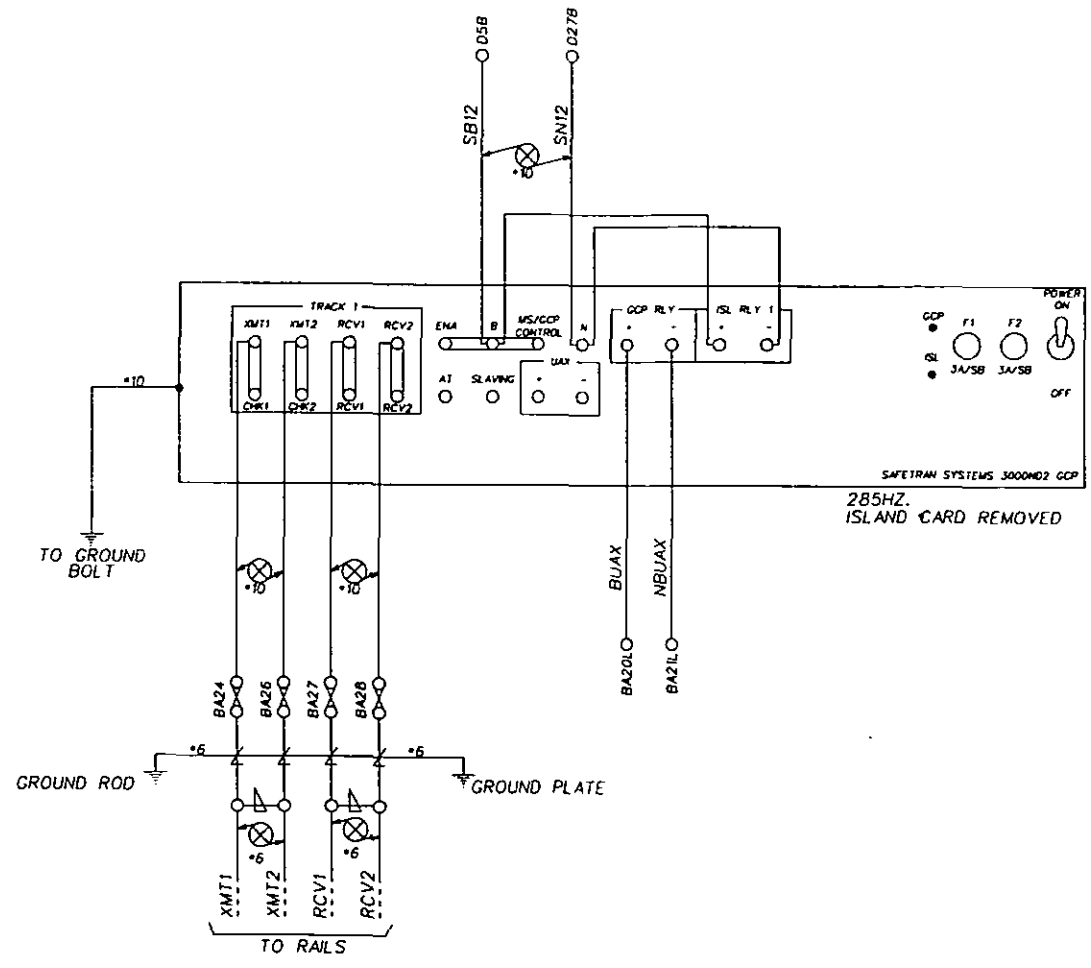
TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

GENRAKODE AND SIGNAL CIRCUITS

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA BRANCH	REV. 1	
MILEPOST:	1.8	PLAN:	0501-0018
		SHEET	5



0501.0018.0005.dgn



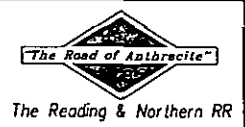
NOTES: ALL WIRING TO BE #16  
UNLESS OTHERWISE NOTED

TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

FOOTE AVENUE CROSSING  
CONTROL CIRCUITS

LOCATION:	DURYEA, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.8

ISSUE DATE:	
REV. 1	
PLAN:	0501-0018
SHEET	6



0501.0018.006.dgn

3000 GCP APPLICATION HISTORY CARD  
(For Units equipped with Processor Module 80014, 80044, or 80214)

Equipment: 3000  3000D2  3000D2L  3000ND  3000ND2  3008  3008D2  DATE INSTALLED: XX-XX-XX  
 Unit/Serial No: XXXX Crossing No: 361-435P Island Frequency: T1: N/A kHz T2: kHz  
 Crossing Name: FOOTE AVENUE City/Town: DURYEPA State: PENNSYLVANIA

PROGRAMMING HISTORY

Press PROGRAM key Initial Programmed Value Date: XX/XX/XX Program Change Date: Program Change Date:

NUMBER OF TRACKS (Transceiver Modules) T1: 1 2  T2: 1 2  T3: 1 2

C10 FREQUENCY (MS/GCP) T1: 285 Hz T2: Hz T3: Hz

UNIDIRECTIONAL/BIDIRECTIONAL T1: UN  BI  T2: UN  BI  T3: UN  BI

XMIT LEVEL T1: MAX  MED  T2: MAX  MED  T3: MAX  MED

WARNING TIME SELECTED T1: 30 Sec. T2: Sec. T3: Sec.

APPROACH DISTANCE SELECTED T1: 1995 Ft. T2: Ft. T3: Ft.

COMPUTED T1: 2168 Ft. T2: Ft. T3: Ft.

UAX1 PICKUP DELAY (UAX) (0-OFF) T1: 0-OFF Sec. T2: Sec. T3: Sec.

ENA/UAX2 DELAY (0-ENA) T1: Sec. T2: Sec. T3: Sec.

ISLAND DISTANCE (Between transmit & receive track wire connections) T1: 120 Ft. T2: Ft. T3: Ft.

NUMBER OF DAX'S (For 3000ND and 3000ND2 units, set to 0) 0  1  2  3  4  5  6  7  8

DAX A TRACK ASSIGNMENT T1: T2: T3:

DAX A DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX A WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX B TRACK ASSIGNMENT T1: T2: T3:

DAX B DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX B WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX C TRACK ASSIGNMENT T1: T2: T3:

DAX C DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX C WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX D TRACK ASSIGNMENT T1: T2: T3:

DAX D DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX D WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX E TRACK ASSIGNMENT T1: T2: T3:

C20 DAX E DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX E WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX F TRACK ASSIGNMENT T1: T2: T3:

C20 DAX F DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX F WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX G TRACK ASSIGNMENT T1: T2: T3:

C20 DAX G DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX G WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX H TRACK ASSIGNMENT T1: T2: T3:

C20 DAX H DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX H WARNING TIME T1: Sec. T2: Sec. T3: Sec.

SLAVING MASTER/SLAVE MASTER:  SLAVE:

PASSWORD ENABLED DISABLED:  ENABLED:

RECORDER INSTALLED NOT INSTALLED:  INSTALLED:

EXTERNAL NODE\* EXTERNAL NODE\* EXTERNAL NODE\*

RS-232-C BAUD RATE \_\_\_\_\_ bps

RS-232-C DATA BITS 7:  8:

RS-232-C STOP BITS 1:  2:

RS-232-C PARITY NONE  ODD:  EVEN:  SPACE:  MARK:

DATE (eg. Thu 03 APR 1997) \_\_\_\_\_

TIME (eg. 11:25:43 AM) \_\_\_\_\_

DAYLIGHT SAVINGS ON:  OFF:

C10 Dual Frequency operation available only in Dual-Frequency 3000 GCP's equipped with 80214 processors  
 C20 Applicable to 3008 and 3008D2 8-DAX GCP's only

EXPANDED PROGRAMMING HISTORY (Function Mode)

Press PROGRAM key Initial Programmed Value Date: 7/18/14 Program Change Date: Program Change Date:

SWITCH TO MS (Enter EZ value) T1: 10 EZ T2: EZ T3: EZ

TRANSFER DELAY MS TO GCP (0-OFF) T1: 0-OFF Sec. T2: Sec. T3: Sec.

C70 TRANSFER MS TO GCP PRIME (when PRIME PREDICTION OFFSET is on) T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C70 TRANSFER MS TO GCP DAX A T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX B T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX C T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX D T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX E T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX F T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX G T1: T2: T3: OFF:

C70 TRANSFER MS TO GCP DAX H T1: T2: T3: OFF:

PRIME PREDICTION OFFSET (0-OFF) T1: Ft. T2: Ft. T3: Ft.

PICKUP DELAY PRIME T1: 10 Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX A T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX B T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX C T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX D T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX E T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX F T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX G T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX H T1: Sec. T2: Sec. T3: Sec.

COMPENSATION VALUE T1: 1300 T2: T3:

C30 SPEED LIMITING T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C30 ENHANCED DETECTION (ED) T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C30 BACK TO BACK T1 AND T2 (When ED is on) NO:  YES:

C30 STATION STOP TIMER T1: Sec. T2: Sec. T3: Sec.

NUMBER OF TRACK WIRES T1: 4:  6:  T2: 4:  6:  T3: 4:  6:

C30 LOW EX ADJUSTMENT T1: T2: T3:

C40 LOW EZ DETECTION T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C40 LOW EZ DETECTION TIMER (When low EZ detection is on) T1: Min. T2: Min. T3: Min.

C40 POSITIVE START (0-OFF) (Enter EZ value) T1: 0-OFF EZ T2: EZ T3: EZ

C40 POSITIVE START TIMEOUT (0-NONE) (When positive start is on) T1: Min. T2: Min. T3: Min.

C40 SET AT OPERATION NORMAL:  DIAGNOSTIC:

C5,60 DIAGNOSTIC MESSAGES ON:  OFF:

C5,60 DAX MESSAGES ON:  OFF:

C50 ADVANCE PREEMPT TIMER OFF Sec. T1: Sec. T2: Sec.

C70 MOTION SENSING LEVEL (0-NORMAL) T1: 0-NORMAL % T2: % T3: %

C30 Applicable only to 3000 GCP's equipped with 80044 or 80214 processors.  
 C40 Applicable only to 3000 GCP's equipped with 80214 processors with ADIC revision and later  
 C50 Applicable only to 3000 GCP's equipped with 80214 processors with ADIE revision and later  
 C60 Applicable only when a SEAR node has been programmed into the GCP from a SEAR  
 C70 Applicable only to 3000 GCP's equipped with 80214 processors with ADIH revision and later

CALIBRATION HISTORY

CALIBRATION DATE: \_\_\_\_\_

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (EZ/EX VALUES TRACK UNOCCUPIED)		HARDWARE SHUNT AT TERMINATION SHUNT			HARDWARE SHUNT AT 50 PERCENT POINT OF TRACK		
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX	STEP . . . EZ
Z2-	Z2-								
EAST/NORTH	MAIN								
WEST/SOUTH	MAIN								
EAST/NORTH	STANDBY								
WEST/SOUTH	STANDBY								

CALIBRATION HISTORY

CALIBRATION DATE: \_\_\_\_\_

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (EZ/EX VALUES TRACK UNOCCUPIED)		HARDWARE SHUNT AT TERMINATION SHUNT			HARDWARE SHUNT AT 50 PERCENT POINT OF TRACK		
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX	STEP . . . EZ
Z2-	Z2-								
EAST/NORTH	MAIN								
WEST/SOUTH	MAIN								
EAST/NORTH	STANDBY								
WEST/SOUTH	STANDBY								

CALIBRATION HISTORY

CALIBRATION DATE: \_\_\_\_\_

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (EZ/EX VALUES TRACK UNOCCUPIED)		HARDWARE SHUNT AT TERMINATION SHUNT			HARDWARE SHUNT AT 50 PERCENT POINT OF TRACK		
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX	STEP . . . EZ
Z2-	Z2-								
EAST/NORTH	MAIN								
WEST/SOUTH	MAIN								
EAST/NORTH	STANDBY								
WEST/SOUTH	STANDBY								

CALIBRATION HISTORY

CALIBRATION DATE: \_\_\_\_\_

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (EZ/EX VALUES TRACK UNOCCUPIED)		HARDWARE SHUNT AT TERMINATION SHUNT			HARDWARE SHUNT AT 50 PERCENT POINT OF TRACK		
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX	STEP . . . EZ
Z2-	Z2-								
EAST/NORTH	MAIN								
WEST/SOUTH	MAIN								
EAST/NORTH	STANDBY								
WEST/SOUTH	STANDBY								

CALIBRATION HISTORY

CALIBRATION DATE: \_\_\_\_\_

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (EZ/EX VALUES TRACK UNOCCUPIED)		HARDWARE SHUNT AT TERMINATION SHUNT			HARDWARE SHUNT AT 50 PERCENT POINT OF TRACK		
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX	STEP . . . EZ
Z2-	Z2-								
EAST/NORTH	MAIN								
WEST/SOUTH	MAIN								
EAST/NORTH	STANDBY								
WEST/SOUTH	STANDBY								

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TRAFFIC CONTROL SYSTEM  
CIRCUITS IS SIGNAL

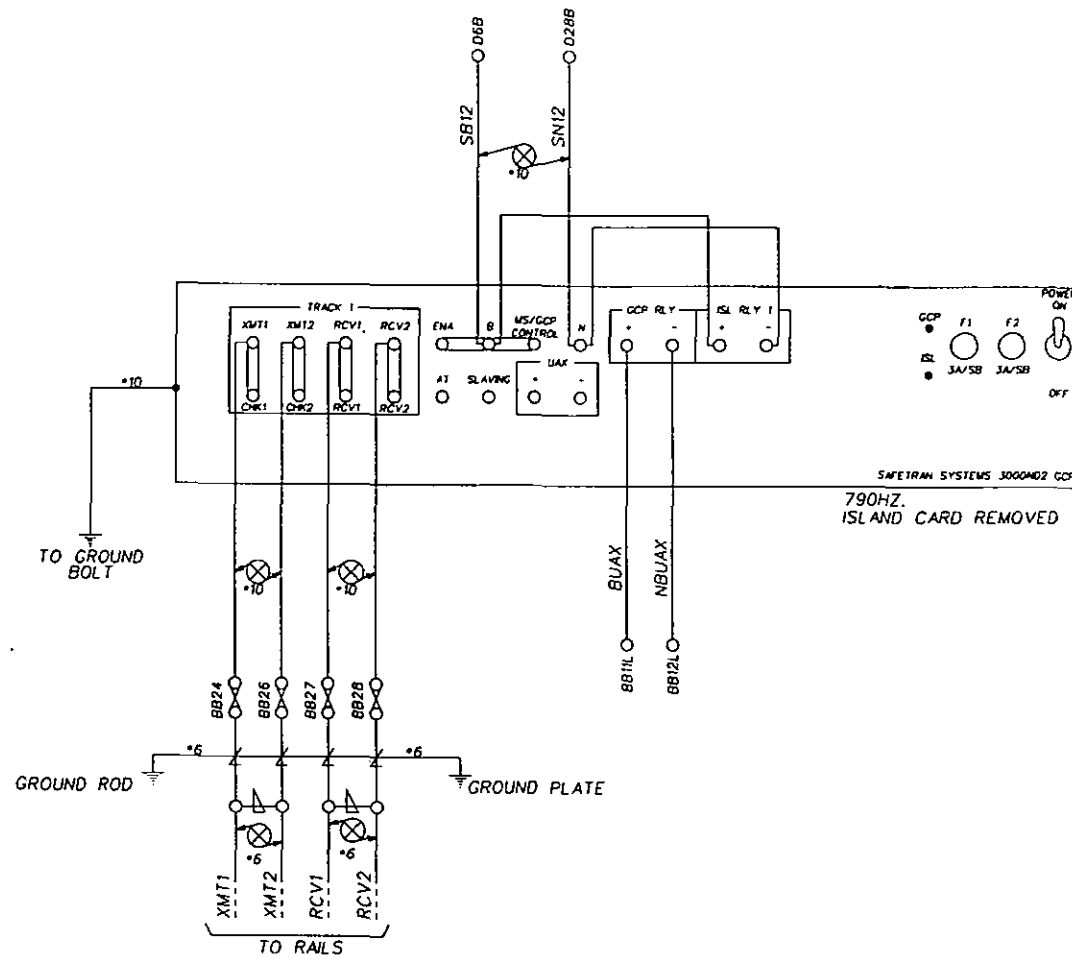
GCP 3000 PARAMETERS  
FOOTE AVENUE

LOCATION: DURYEPA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.8

ISSUE DATE:  
 REV. 1  
 PLAN: 0501-0018  
 SHEET 7







NOTES: ALL WIRING TO BE #16  
UNLESS OTHERWISE NOTED

TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

BOYLAN DRIVE CROSSING  
CONTROL CIRCUITS

LOCATION: DURYEA, PA  
LINE/BRANCH: SUSQUEHANNA BRANCH  
MILEPOST: 1.8

ISSUE DATE:  
REV. 1  
PLAN: 0501-0018  
SHEET 8



0501-0018-008.dgn

3000 GCP APPLICATION HISTORY CARD  
 (For Units equipped with Processor Module 80014, 80044, or 80214)  
 Equipment: 3000  3000D2  3000D2L  3000ND  3000ND2  3008  3008D2  DATE INSTALLED: XX-XX-XX  
 Unit/Serial No: XXXX Crossing No: 361-435P Island Frequency: T1: N/A kHz T2: kHz  
 Crossing Name: BOYLAN DRIVE City/Town: DURYEPA State: PENNSYLVANIA

PROGRAMMING HISTORY

press PROGRAM key Initial Programmed Value Date: XX/XX/XX Program Change Date: Program Change Date:

NUMBER OF TRACKS (Transceiver Modules) T1: 1  2  T2: 1  2  T3: 1  2

C10 FREQUENCY (MS/GCP) T1: 790 Hz T2: Hz T3: Hz

UNIDIRECTIONAL/BIDIRECTIONAL T1: UNI  BI  T2: UNI  BI  T3: UNI  BI

XMIT LEVEL T1: MAX  MED  T2: MAX  MED  T3: MAX  MED

WARNING TIME SELECTED T1: 30 Sec. T2: Sec. T3: Sec.

APPROACH DISTANCE → SELECTED T1: 1995 Ft. T2: Ft. T3: Ft.  
 → COMPUTED T1: 2168 Ft. T2: Ft. T3: Ft.

UAX1 PICKUP DELAY (UAX) (0-OFF) T1: 0-OFF Sec. T2: Sec. T3: Sec.

ENA/UAX2 DELAY (0-ENA) T1: Sec. T2: Sec. T3: Sec.

ISLAND DISTANCE (Between transmit & receive track wire connections) T1: 120 Ft. T2: Ft. T3: Ft.

NUMBER OF DAX'S (For 3000ND and 3000ND2 units, set to 0) 0  1  2  3  4  5  6  7  8

DAX A TRACK ASSIGNMENT T1: T2: T3:

DAX A DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX A WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX B TRACK ASSIGNMENT T1: T2: T3:

DAX B DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX B WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX C TRACK ASSIGNMENT T1: T2: T3:

DAX C DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX C WARNING TIME T1: Sec. T2: Sec. T3: Sec.

DAX D TRACK ASSIGNMENT T1: T2: T3:

DAX D DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

DAX D WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX E TRACK ASSIGNMENT T1: T2: T3:

C20 DAX E DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX E WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX F TRACK ASSIGNMENT T1: T2: T3:

C20 DAX F DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX F WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX G TRACK ASSIGNMENT T1: T2: T3:

C20 DAX G DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX G WARNING TIME T1: Sec. T2: Sec. T3: Sec.

C20 DAX H TRACK ASSIGNMENT T1: T2: T3:

C20 DAX H DISTANCE (0-PREEMPT) T1: Ft. T2: Ft. T3: Ft.

C20 DAX H WARNING TIME T1: Sec. T2: Sec. T3: Sec.

SLAVING MASTER/SLAVE MASTER:  SLAVE:

PASSWORD ENABLED DISABLED:  ENABLED:

RECORDER #INSTALLED NOT INSTALLED:  INSTALLED:

EXTERNAL NODE\* \_\_\_\_\_ bps

RS-232-C BAUD RATE \_\_\_\_\_ bps

RS-232-C DATA BITS 7:  8:

RS-232-C STOP BITS 1:  2:

RS-232-C PARITY NONE  ODD:  EVEN:  SPACE:  MARK:

LATL (eg. 1HW 03 APR 1997)

TIME (eg. 11:25:43 AM)

DAYLIGHT SAVINGS ON:  OFF:

C10 Dual Frequency operation available only in Dual-Frequency 3000 GCP's equipped with 80214 processors  
 C20 Applicable to 3008 and 3008D2 8-DAX GCP's only

EXPANDED PROGRAMMING HISTORY (Function Mode)

press PROGRAM key Initial Programmed Value Date: 7/18/14 Program Change Date: Program Change Date:

SWITCH TO MS (Enter EZ value) T1: 10 EZ T2: EZ T3: EZ

TRANSFER DELAY MS TO GCP (0-OFF) T1: 0-OFF Sec. T2: Sec. T3: Sec.

C70 TRANSFER MS TO GCP PRIME (when PRIME PREDICTION OFFSET is on) T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C70 TRANSFER MS TO GCP DAX A T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX B T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX C T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX D T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX E T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX F T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX G T1: T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX H T1: T2: ON  OFF:

PRIME PREDICTION OFFSET (0-OFF) T1: Ft. T2: Ft. T3: Ft.

PICKUP DELAY PRIME T1: 10 Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX A T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX B T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX C T1: Sec. T2: Sec. T3: Sec.

PICKUP DELAY DAX D T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX E T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX F T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX G T1: Sec. T2: Sec. T3: Sec.

C20 PICKUP DELAY DAX H T1: Sec. T2: Sec. T3: Sec.

COMPENSATION VALUE T1: 1300 T2: T3:

C30 SPEED LIMITING T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C30 ENHANCED DETECTION (ED) T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C30 BACK TO BACK T1 AND T2 (When ED is on) NO:  YES:

C30 STATION STOP TIMER T1: Sec. T2: Sec. T3: Sec.

NUMBER OF TRACK WIRES T1: 4:  6:  T2: 4:  6:  T3: 4:  6:

C30 LOW EX ADJUSTMENT T1: 0 T2: T3:

C40 LOW EZ DETECTION T1: ON  OFF:  T2: ON  OFF:  T3: ON  OFF:

C40 LOW EZ DETECTION TIMER (When low EZ detection is on) T1: Min. T2: Min. T3: Min.

C40 POSITIVE START (0-OFF) (Enter EZ value) T1: 0-OFF EZ T2: EZ T3: EZ

C40 POSITIVE START TIMEOUT (0-NONE) (When positive start is on) T1: Min. T2: Min. T3: Min.

C40 SET AT OPERATION NORMAL:  DIAGNOSTIC:

C5.60 DIAGNOSTIC MESSAGES ON:  OFF:

C5.60 DAX MESSAGES ON:  OFF:

C50 ADVANCE PREEMPT TIMER T1: Sec. T2: Sec. T3: Sec.

C70 MOTION SENSING LEVEL (0-NORMAL) T1: 0-NORMAL X T2: X T3: X

C30 Applicable only to 3000 GCP's equipped with 80044 or 80214 processors.  
 C40 Applicable only to 3000 GCP's equipped with 80214 processors with ADIC revision and later  
 C50 Applicable only to 3000 GCP's equipped with 80214 processors with ADIE revision and later  
 C60 Applicable only when a PR mode has been programmed into the GCP from a SEAR  
 C70 Applicable only to 3000 GCP's equipped with 80214 processors with ADH revision and later

CALIBRATION HISTORY

CALIBRATION DATE:

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)		HARDWIRE SHUNT AT TERMINATION SHUNT			HARDWIRE SHUNT AT 50 PERCENT POINT OF TRACK			
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE	
Z1-	Z1-						EZ	EX	STEP	EZ
Z2-	Z2-									
EAST/NORTH	MAIN									
WEST/SOUTH	MAIN									
EAST/NORTH	STANDBY									
WEST/SOUTH	STANDBY									

CALIBRATION HISTORY

CALIBRATION DATE:

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)		HARDWIRE SHUNT AT TERMINATION SHUNT			HARDWIRE SHUNT AT 50 PERCENT POINT OF TRACK			
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE	
Z1-	Z1-						EZ	EX	STEP	EZ
Z2-	Z2-									
EAST/NORTH	MAIN									
WEST/SOUTH	MAIN									
EAST/NORTH	STANDBY									
WEST/SOUTH	STANDBY									

CALIBRATION HISTORY

CALIBRATION DATE:

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)		HARDWIRE SHUNT AT TERMINATION SHUNT			HARDWIRE SHUNT AT 50 PERCENT POINT OF TRACK			
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE	
Z1-	Z1-						EZ	EX	STEP	EZ
Z2-	Z2-									
EAST/NORTH	MAIN									
WEST/SOUTH	MAIN									
EAST/NORTH	STANDBY									
WEST/SOUTH	STANDBY									

CALIBRATION HISTORY

CALIBRATION DATE:

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)		HARDWIRE SHUNT AT TERMINATION SHUNT			HARDWIRE SHUNT AT 50 PERCENT POINT OF TRACK			
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE	
Z1-	Z1-						EZ	EX	STEP	EZ
Z2-	Z2-									
EAST/NORTH	MAIN									
WEST/SOUTH	MAIN									
EAST/NORTH	STANDBY									
WEST/SOUTH	STANDBY									

CALIBRATION HISTORY


CALIBRATION DATE:

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)		HARDWIRE SHUNT AT TERMINATION SHUNT			HARDWIRE SHUNT AT 50 PERCENT POINT OF TRACK			
MAIN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION		LINEARIZATION COMPLETE	
Z1-	Z1-						EZ	EX	STEP	EZ
Z2-	Z2-									
EAST/NORTH	MAIN									
WEST/SOUTH	MAIN									
EAST/NORTH	STANDBY									
WEST/SOUTH	STANDBY									

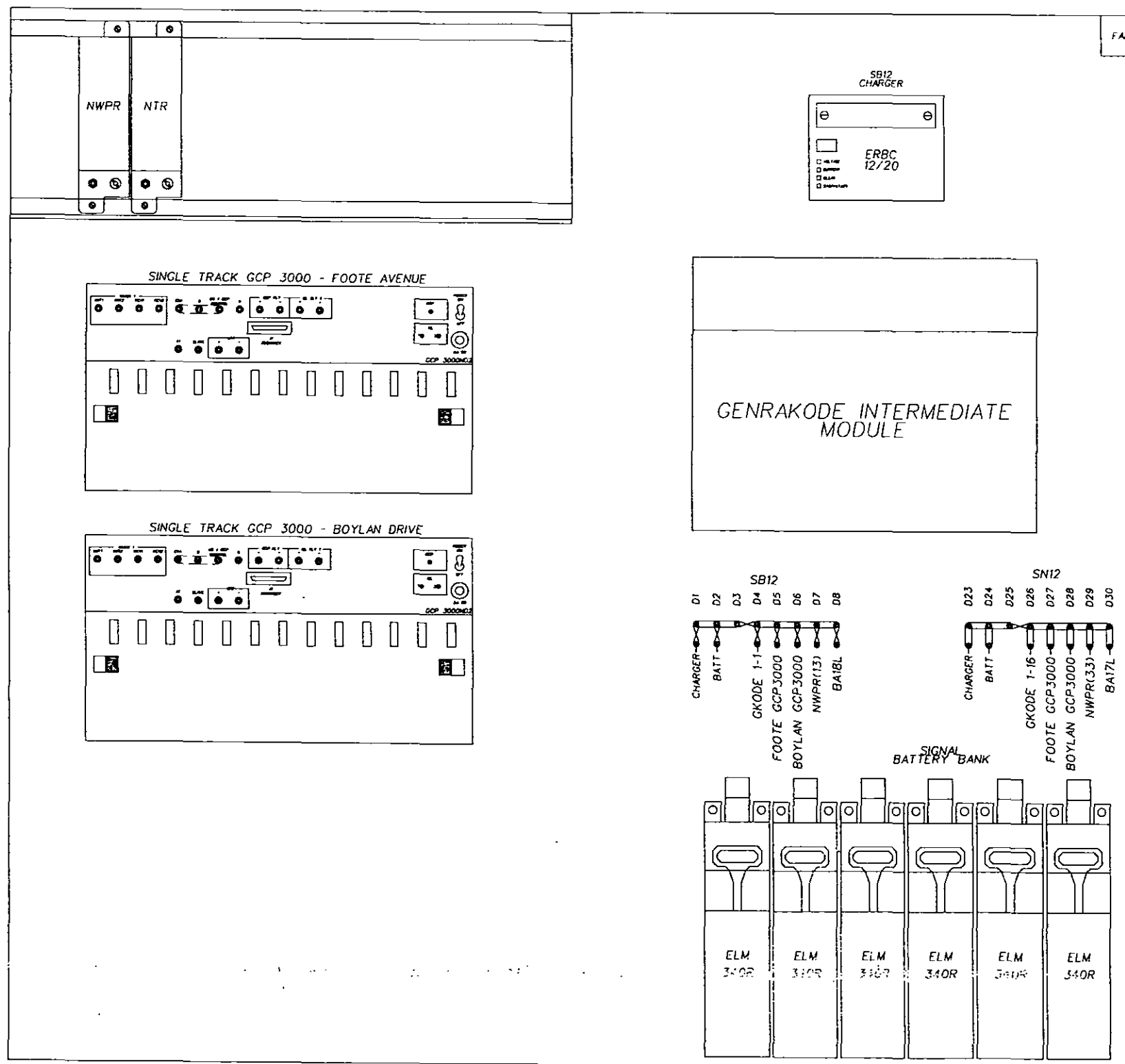
TRAFFIC CONTROL SYSTEM  
 CIRCUITS 1S SIGNAL

GCP 3000 PARAMETERS  
 BOYLAN DRIVE

LOCATION: DURYEPA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.8

ISSUE DATE:  
 REV. 1  
 PLAN: 0501-0018  
 SHEET: 9  
  
 The Reading & Northern RR

0501.0018.009.dgn



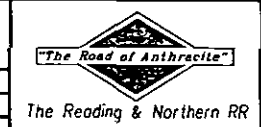
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TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

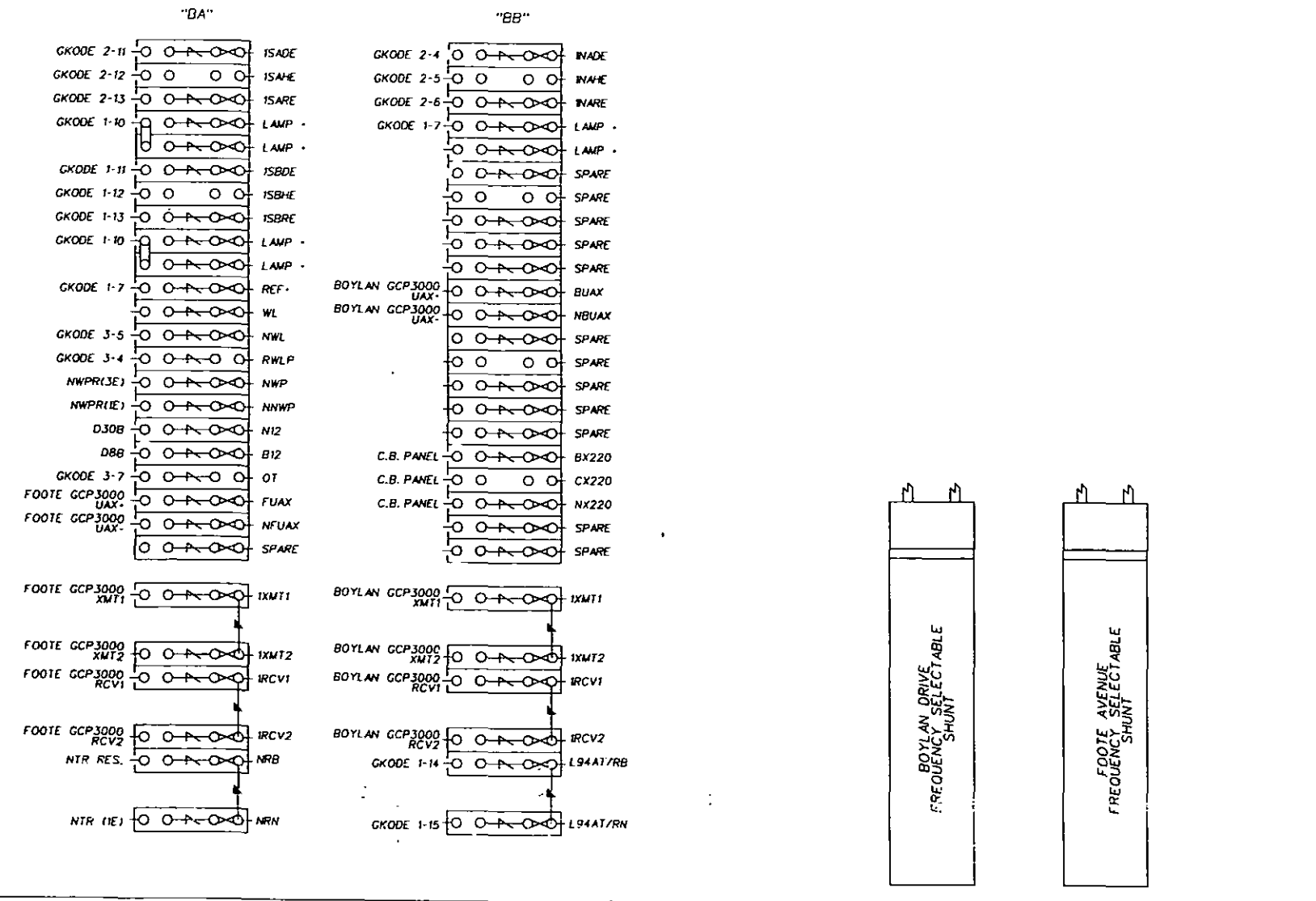
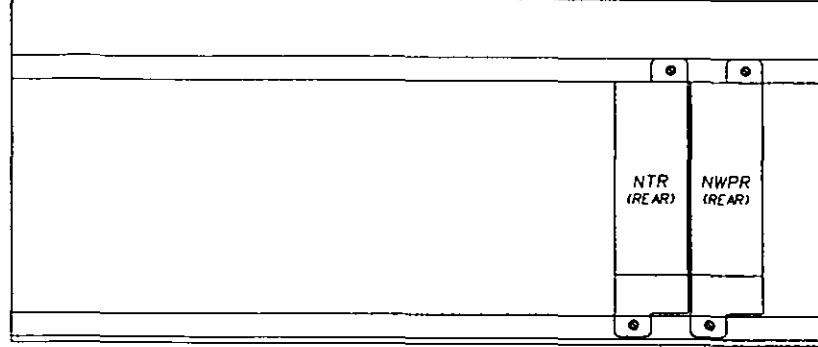
CASE LAYOUT (FRONT)

LOCATION:	DURYLEA, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.8

ISSUE DATE:	
REV. 1	
PLAN	0501-0018
SHEET	10



FAN



0501.001B.011.dgn

TRAFFIC CONTROL SYSTEM  
CIRCUITS 1S SIGNAL

CASE LAYOUT (REAR)

LOCATION:	DURYEA, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.8

ISSUE DATE:	
REV. 1	
PLAN	0501-001B
SHEET	11



REC'D  
 2015 JUL 22 AM 10:33  
 F. M. ...  
 SECRETARY'S BUREAU

REVISIONS	
1	MARCH 1, 1997 SWE
PLAN REDRAWN FROM A.I.S. LVRR PLAN ST-288	
2	DATE JMB
NEW BUNGALOW & WIRING INSTALLED	
IN SERVICE: PER:	

	INDEX	REVISIONS													
		1	2	3	4	5	6	7	8	9	10				
1	TITLE, INDEX & REVISIONS	✓													
2	LOCATION PLAN	✓													
3	POWER DISTRIBUTION	✓													
4	TRAIN DETECTION CIRCUITS	✓													
5	GENRAKODE AND SIGNAL CIRCUITS	✓													
6	GCP 3000 PARAMETERS - TRACK 1	✓													
7	FLASHING LIGHT & GATE CIRCUITS	✓													
8	GATE CONTROL CIRCUITS	✓													
9	BACKBOARD LAYOUT	✓													
10	BUNGALOW LAYOUT - LEFT SIDE	✓													
11	BUNGALOW LAYOUT - RIGHT SIDE	✓													
12															
13															
14															
15															

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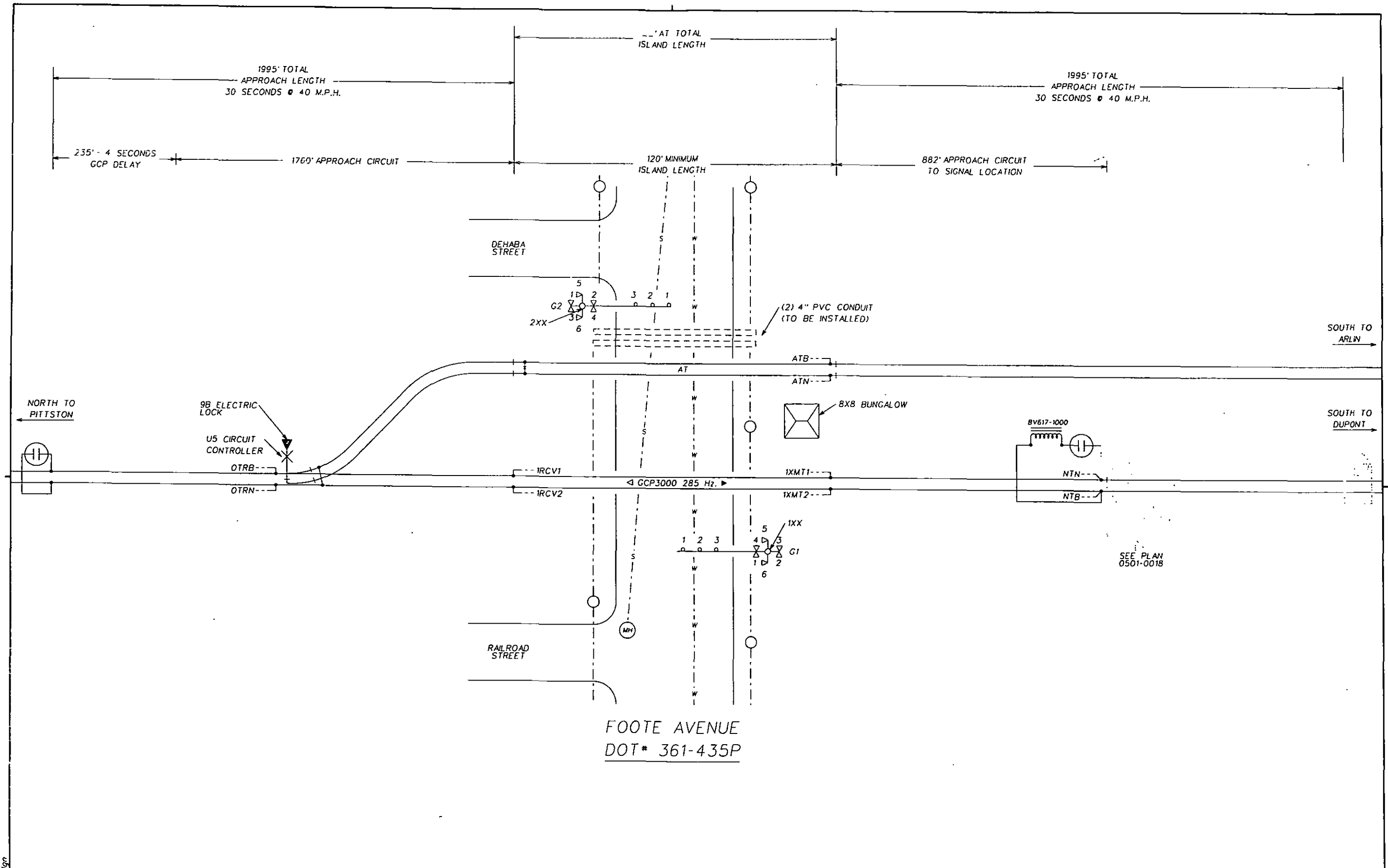
FOOTE AVENUE - DURYEA, PA.  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING DEVICES

TITLE, INDEX & REVISIONS

LOCATION: DURYEA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.91

ISSUE DATE:  
 REV. 1  
 PLAN: 0501-0019  
 SHEET 1





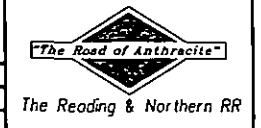
SEE PLAN  
0501-0018

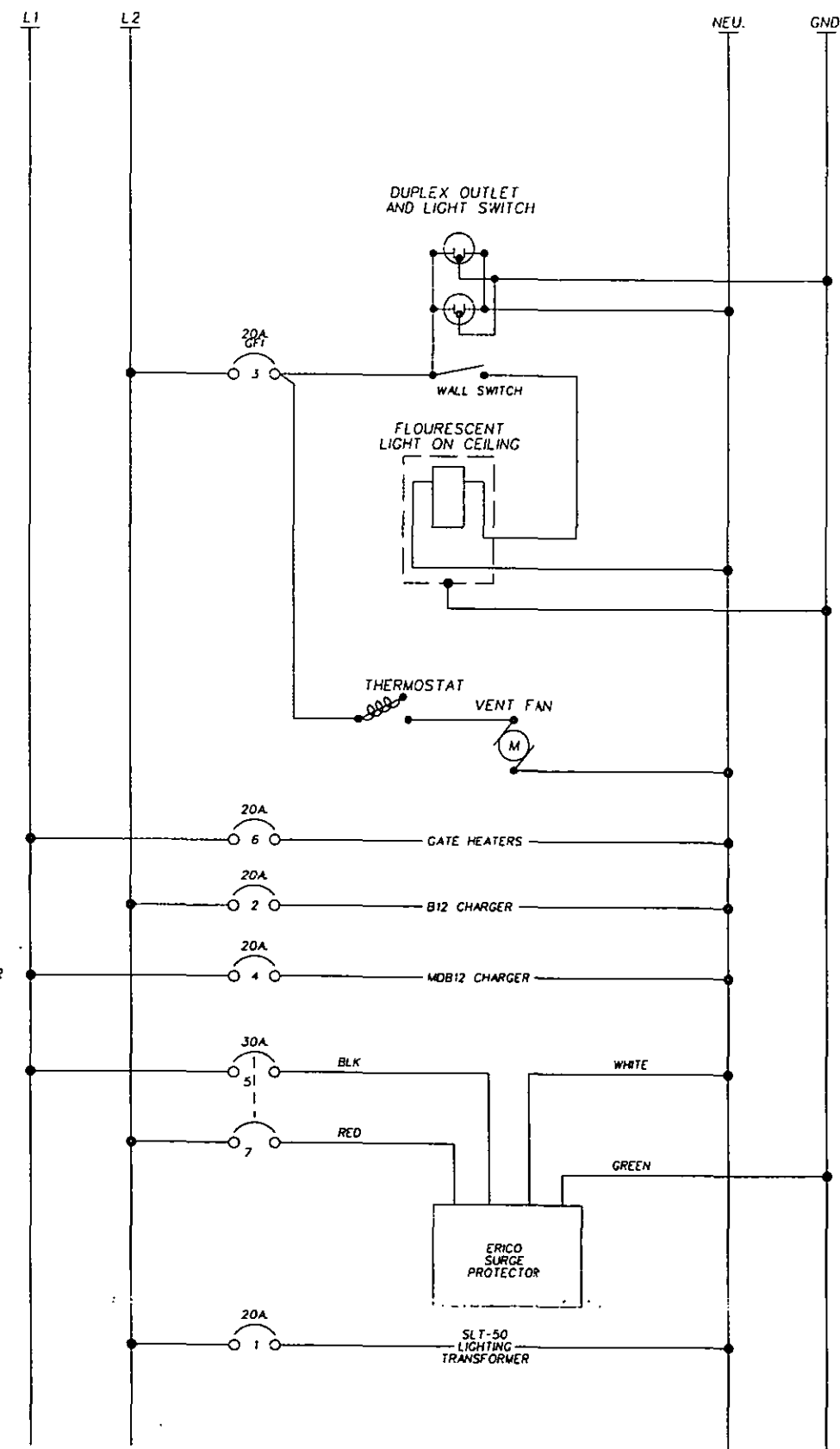
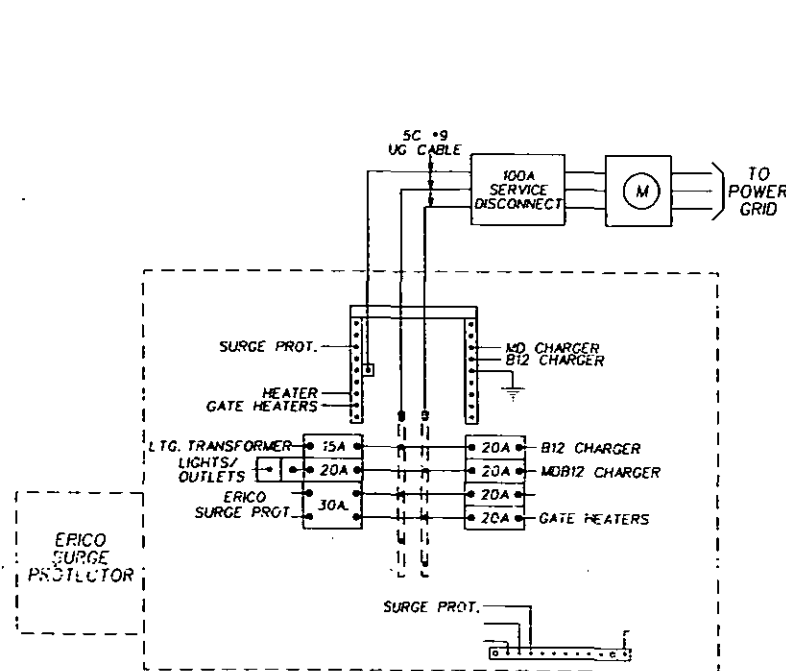
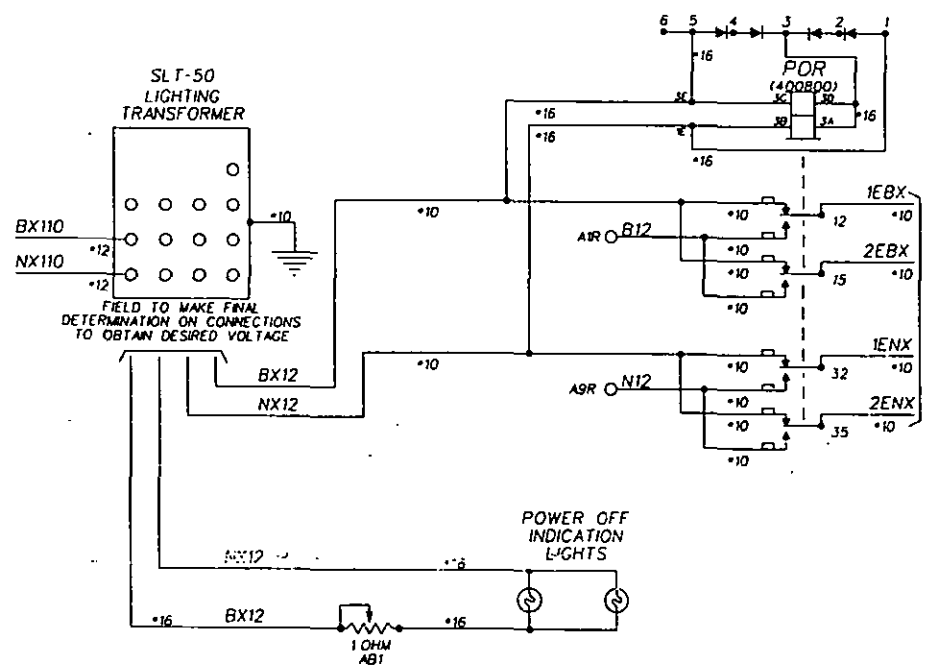
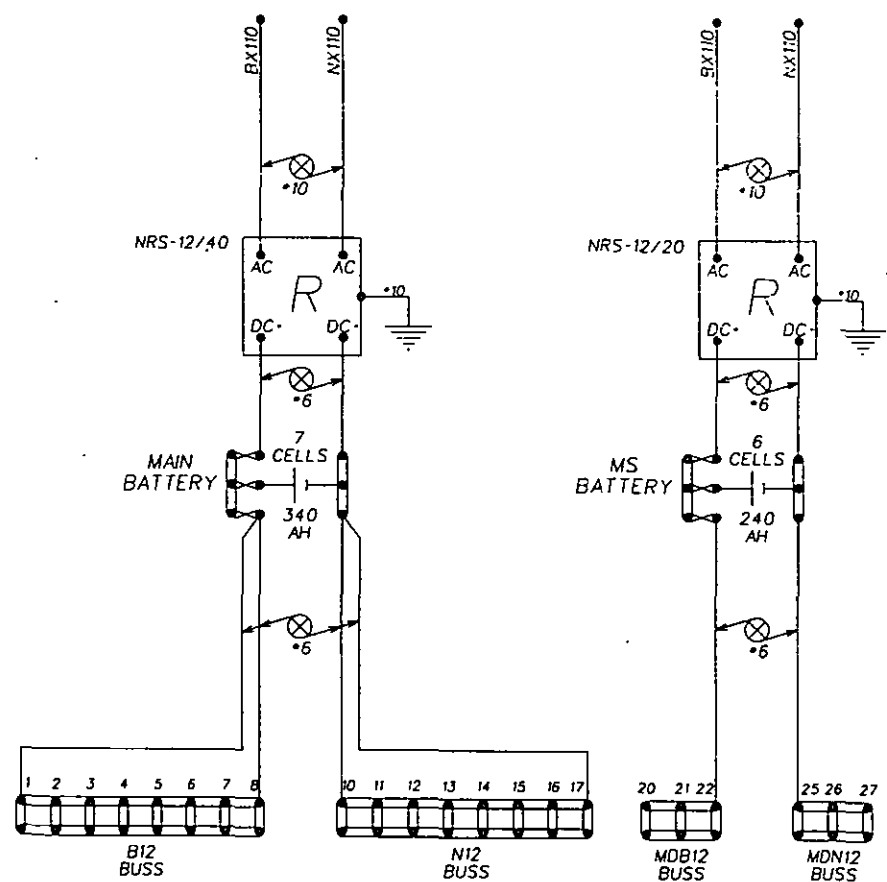
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FOOTE AVENUE - DURYEA, PA.  
AUTOMATIC HIGHWAY CROSSING  
WARNING DEVICES

LOCATION PLAN

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA	REV. 1	
MILEPOST:	1.91	PLAN:	0501-0019
		SHEET	2



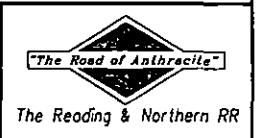


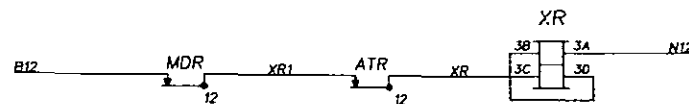
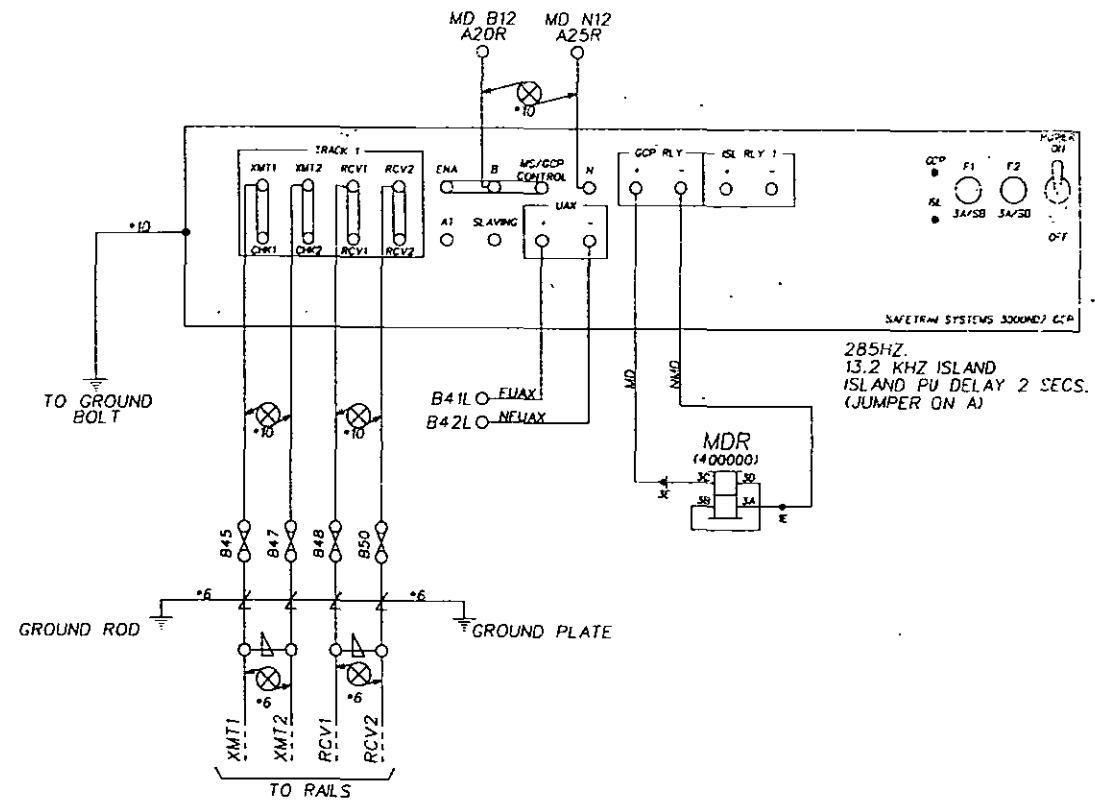
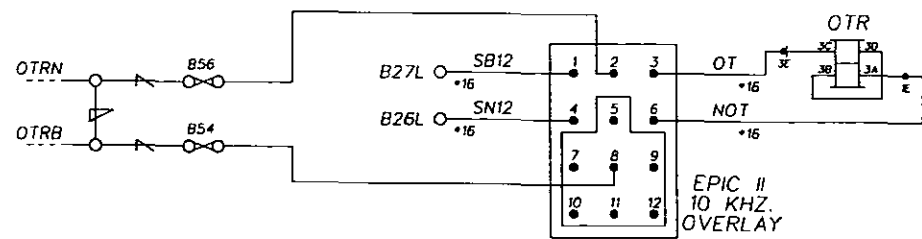
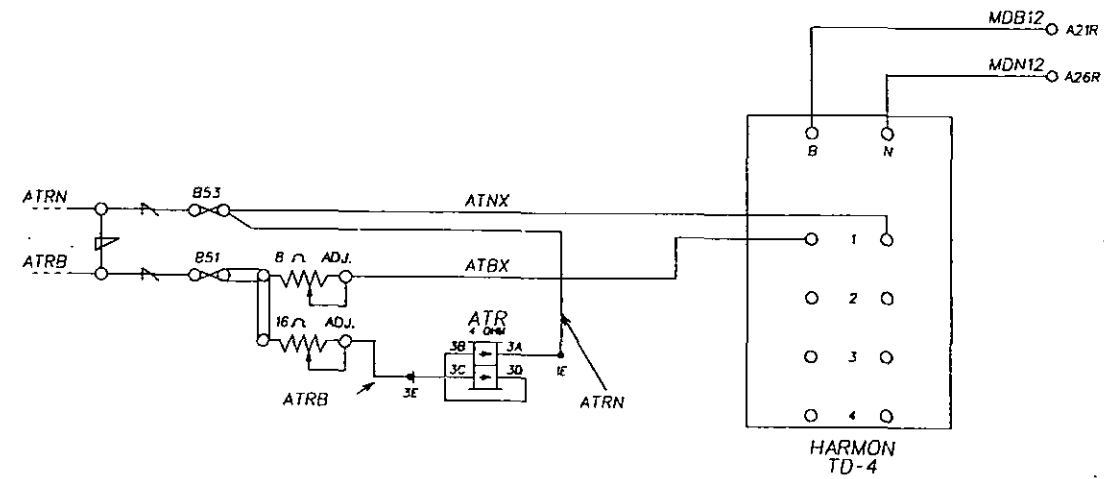
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FOOTE AVENUE - DURYEA, PA  
AUTOMATIC HIGHWAY CROSSING  
WARNING DEVICES

POWER DISTRIBUTION

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA BRANCH	REV. 1	
MILEPOST:	1.91	PLAN:	0501-0019
		SHEET	3





NOTES: ALL WIRING TO BE \*16 UNLESS OTHERWISE NOTED

FOOTE AVENUE - DURYEA, PA  
AUTOMATIC HIGHWAY CROSSING  
WARNING DEVICES

TRAIN DETECTION CIRCUITS

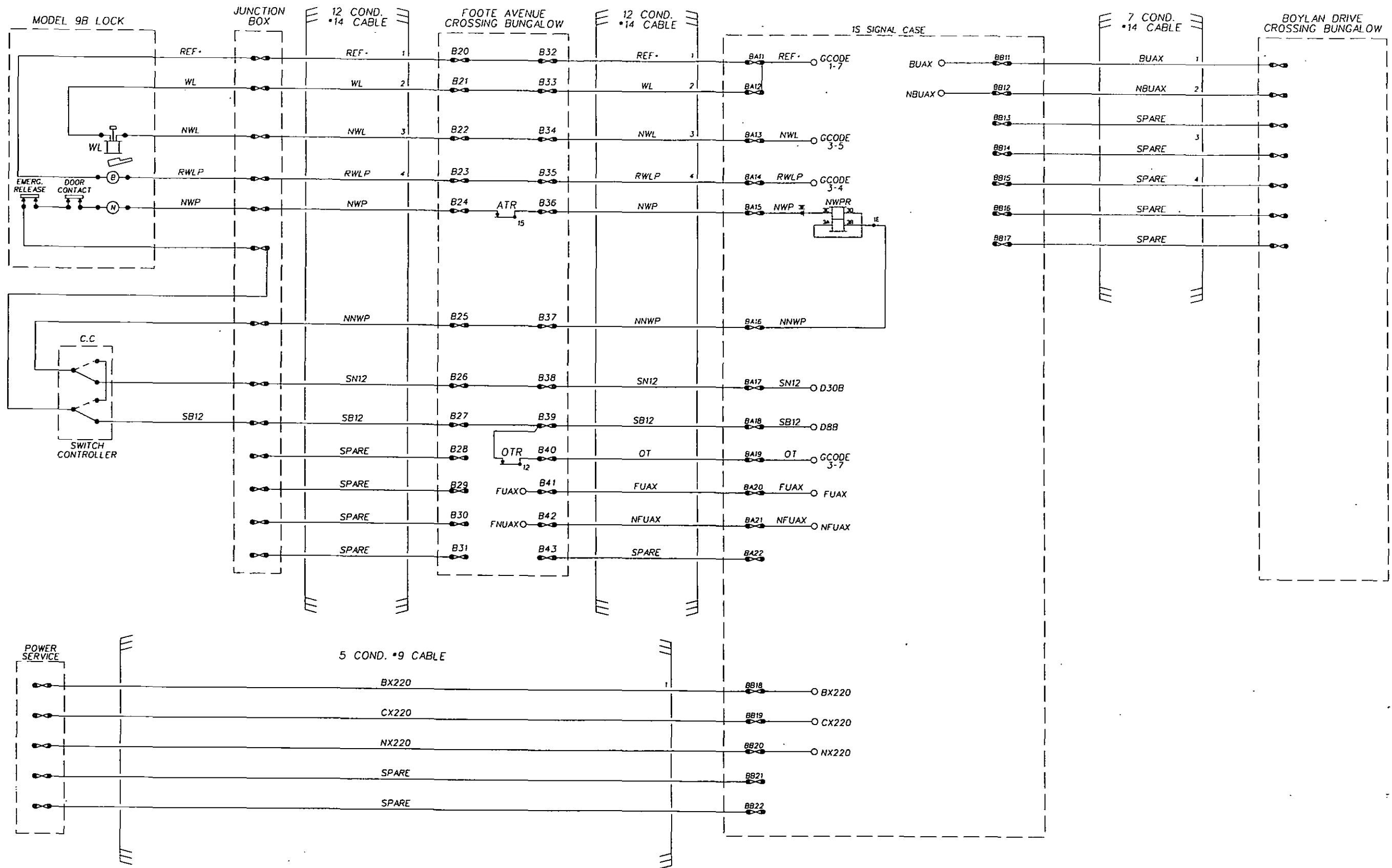
LOCATION:	DURYEA, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.91

ISSUE DATE:	
REV. 1	
PLAN:	0501-0019
SHEET	4



0501.0019.004.dgn





NOTES: ALL WIRING TO BE #16  
 UNLESS OTHERWISE NOTED

FOOTE AVENUE - DURYEA, PA  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING DEVICES

ELECTRIC LOCK AND SIGNAL CIRCUITS

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE / BRANCH:	SUSQUEHANNA BRANCH	REV. 1	
MILEPOST:	1.91	PLAN:	0501-0019
		SHEET	5



0501.0019.005.dgn

3000 GCP APPLICATION HISTORY CARD  
 (For Units equipped with Processor Module 80014, 80044, or 80214)  
 Equipment: 3000  3000D2  3000D2L  3000ND  3000ND2  3008  3008D2  DATE INSTALLED: XX-XX-XX  
 Unit/Serial No: XXXX Crossing No: 361-435P Island Frequency: T1: 13.2 kHz T2: \_\_\_\_\_ kHz  
 Crossing Name: FOOTE AVENUE City/Town: DURYEA State: PENNSYLVANIA

**PROGRAMMING HISTORY**

press PROGRAM key Initial Programmed Value Date: XX/XX/XX Program Change Date: \_\_\_\_\_ Program Change Date: \_\_\_\_\_

NUMBER OF TRACKS (Transceiver Modules)  2  3  4

C10 FREQUENCY (MS/GCP) T1: 430 Hz T2: \_\_\_\_\_ Hz

UNIDIRECTIONAL/BIDIRECTIONAL T1: UN  BI  T2: UN  BI

XMIT LEVEL T1: MAX  MED  T2: MAX  MED

WARNING TIME SELECTED T1: 30 Sec. T2: \_\_\_\_\_ Sec.

APPROACH DISTANCE  SELECTED  COMPUTED  
 T1: 1995 Ft. T2: \_\_\_\_\_ Ft.  
 T1: 2168 Ft. T2: \_\_\_\_\_ Ft.

UAX1 PICKUP DELAY (UAX) (0-OFF) T1: 0-OFF Sec. T2: \_\_\_\_\_ Sec.  
 ENA/UAX2 DELAY (0-ENA) T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

ISLAND DISTANCE (Between transmit & receive track wire connections) T1: 120 Ft. T2: \_\_\_\_\_ Ft.

NUMBER OF DAX'S (For 3000ND and 3000ND2 units, set to 0) 0  1  2  3  4

DAX A TRACK ASSIGNMENT T1: 7 2 T2: \_\_\_\_\_

DAX A DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

DAX A WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

DAX B TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

DAX B DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

DAX B WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

DAX C TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

DAX C DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

DAX C WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

DAX D TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

DAX D DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

DAX D WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 DAX E TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

C20 DAX E DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

C20 DAX E WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 DAX F TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

C20 DAX F DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

C20 DAX F WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 DAX G TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

C20 DAX G DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

C20 DAX G WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 DAX H TRACK ASSIGNMENT T1: \_\_\_\_\_ T2: \_\_\_\_\_

C20 DAX H DISTANCE (0-PREEMPT) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

C20 DAX H WARNING TIME T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

SLAVING MASTER/SLAVE MASTER:  SLAVE:

PASSWORD ENABLED DISABLED:  ENABLED:

RECORDER INSTALLED NOT INSTALLED:  INSTALLED:

EXTERNAL NODE\* \_\_\_\_\_ bps

RS-232-C BAUD RATE \_\_\_\_\_ bps

RS-232-C DATA BITS 7:  8:

RS-232-C STOP BITS 1:  2:

RS-232-C PARITY NONE  ODD  EVEN

DATE (eg. THU 03 APR 1977) \_\_\_\_\_

TIME (eg. 11:25:43 AM) \_\_\_\_\_

DAYLIGHT SAVINGS ON:  OFF:

C10 Dual Frequency operation available only in Dual-Frequency 3000 GCP's equipped with 80214 processors  
 C20 Applicable to 3008 and 3008D2 8-DAX GCP's only

**EXPANDED PROGRAMMING HISTORY (Function Mode)**

press PROGRAM key Initial Programmed Value Date: 7/18/14 Program Change Date: \_\_\_\_\_ Program Change Date: \_\_\_\_\_

SWITCH TO MS (Enter EZ value) T1: 10 EZ T2: \_\_\_\_\_ EZ

TRANSFER DELAY MS TO GCP (0-OFF) T1: 0-OFF Sec. T2: \_\_\_\_\_ Sec.

C70 TRANSFER MS TO GCP PRIME (When PRIME PREDICTION OFFSET is on) T1: ON  OFF:  T2: ON  OFF:

C70 TRANSFER MS TO GCP DAX A T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX B T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX C T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX D T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX E T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX F T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX G T1: \_\_\_\_\_ T2: \_\_\_\_\_

C70 TRANSFER MS TO GCP DAX H T1: \_\_\_\_\_ T2: \_\_\_\_\_

PRIME PREDICTION OFFSET (0-OFF) T1: \_\_\_\_\_ Ft. T2: \_\_\_\_\_ Ft.

PICKUP DELAY PRIME T1: 10 Sec. T2: \_\_\_\_\_ Sec.

PICKUP DELAY DAX A T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

PICKUP DELAY DAX B T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

PICKUP DELAY DAX C T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

PICKUP DELAY DAX D T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 PICKUP DELAY DAX E T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 PICKUP DELAY DAX F T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 PICKUP DELAY DAX G T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

C20 PICKUP DELAY DAX H T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

COMPENSATION VALUE T1: 1300 T2: \_\_\_\_\_

C30 SPEED LIMITING T1: ON  OFF:  T2: ON  OFF:

C30 ENHANCED DETECTION (ED) T1: ON  OFF:  T2: ON  OFF:

C30 BACK TO BACK T1 AND T2 (When ED is on) NO  YES:

C30 STATION STOP TIMER T1: \_\_\_\_\_ Sec. T2: \_\_\_\_\_ Sec.

NUMBER OF TRACK WIRES T1: 4:  6:  T2: 4:  6:

C30 LOW EX ADJUSTMENT T1: 0 T2: \_\_\_\_\_

C40 LOW EZ DETECTION T1: ON  OFF:  T2: ON  OFF:

C40 LOW EZ DETECTION TIMER (When low EZ detection is on) T1: \_\_\_\_\_ Min. T2: \_\_\_\_\_ Min.

C40 POSITIVE START (0-OFF) (Enter EZ value) T1: 0-OFF EZ T2: \_\_\_\_\_ EZ

C40 POSITIVE START TIMEOUT (0-NONE) (When positive start is on) T1: \_\_\_\_\_ Min. T2: \_\_\_\_\_ Min.

C40 SET AT OPERATION NORMAL:  DIAGNOSTIC:

C5.60 DIAGNOSTIC MESSAGES ON:  OFF:

C5.60 DAX MESSAGES ON:  OFF:

C50 ADVANCE PREEMPT TIMER OFF Sec. \_\_\_\_\_ Sec.

C70 MOTION SENSING LEVEL (0-NORMAL) T1: 0-NORMAL X T2: \_\_\_\_\_ X

C30 Applicable only to 3000 GCP's equipped with 80044 or 80214 processors.  
 C40 Applicable only to 3000 GCP's equipped with 80214 processors with ADIC revision and later  
 C50 Applicable only to 3000 GCP's equipped with 80214 processors with ADIC revision and later  
 C60 Applicable only when a SEAR code has been programmed into the GCP from a SEAR  
 C70 Applicable only to 3000 GCP's equipped with 80214 processors with ADIC revision and later

CALIBRATION HISTORY

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)			LINEARIZATION HISTORY			
MAN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION	LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX
Z2-	Z2-						EZ	EX
EAST/NORTH	MAN						STEP	•
WEST/SOUTH	MAN							
EAST/NORTH	STANDBY							
WEST/SOUTH	STANDBY							

CALIBRATION HISTORY

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)			LINEARIZATION HISTORY			
MAN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION	LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX
Z2-	Z2-						EZ	EX
EAST/NORTH	MAN						STEP	•
WEST/SOUTH	MAN							
EAST/NORTH	STANDBY							
WEST/SOUTH	STANDBY							

CALIBRATION HISTORY

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)			LINEARIZATION HISTORY			
MAN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION	LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX
Z2-	Z2-						EZ	EX
EAST/NORTH	MAN						STEP	•
WEST/SOUTH	MAN							
EAST/NORTH	STANDBY							
WEST/SOUTH	STANDBY							

CALIBRATION HISTORY

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)			LINEARIZATION HISTORY			
MAN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION	LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX
Z2-	Z2-						EZ	EX
EAST/NORTH	MAN						STEP	•
WEST/SOUTH	MAN							
EAST/NORTH	STANDBY							
WEST/SOUTH	STANDBY							

CALIBRATION HISTORY

80012 DC VOLTAGE READINGS AFTER CALIBRATION		CALIBRATION HISTORY (TRACK UNOCCUPIED)			LINEARIZATION HISTORY			
MAN	STANDBY	EZ	EX	EZ VALUE	EX VALUE	EZ VALUE	NO LINEARIZATION	LINEARIZATION COMPLETE
Z1-	Z1-						EZ	EX
Z2-	Z2-						EZ	EX
EAST/NORTH	MAN						STEP	•
WEST/SOUTH	MAN							
EAST/NORTH	STANDBY							
WEST/SOUTH	STANDBY							

FOOTE AVENUE - DURYEA, PA  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING DEVICES

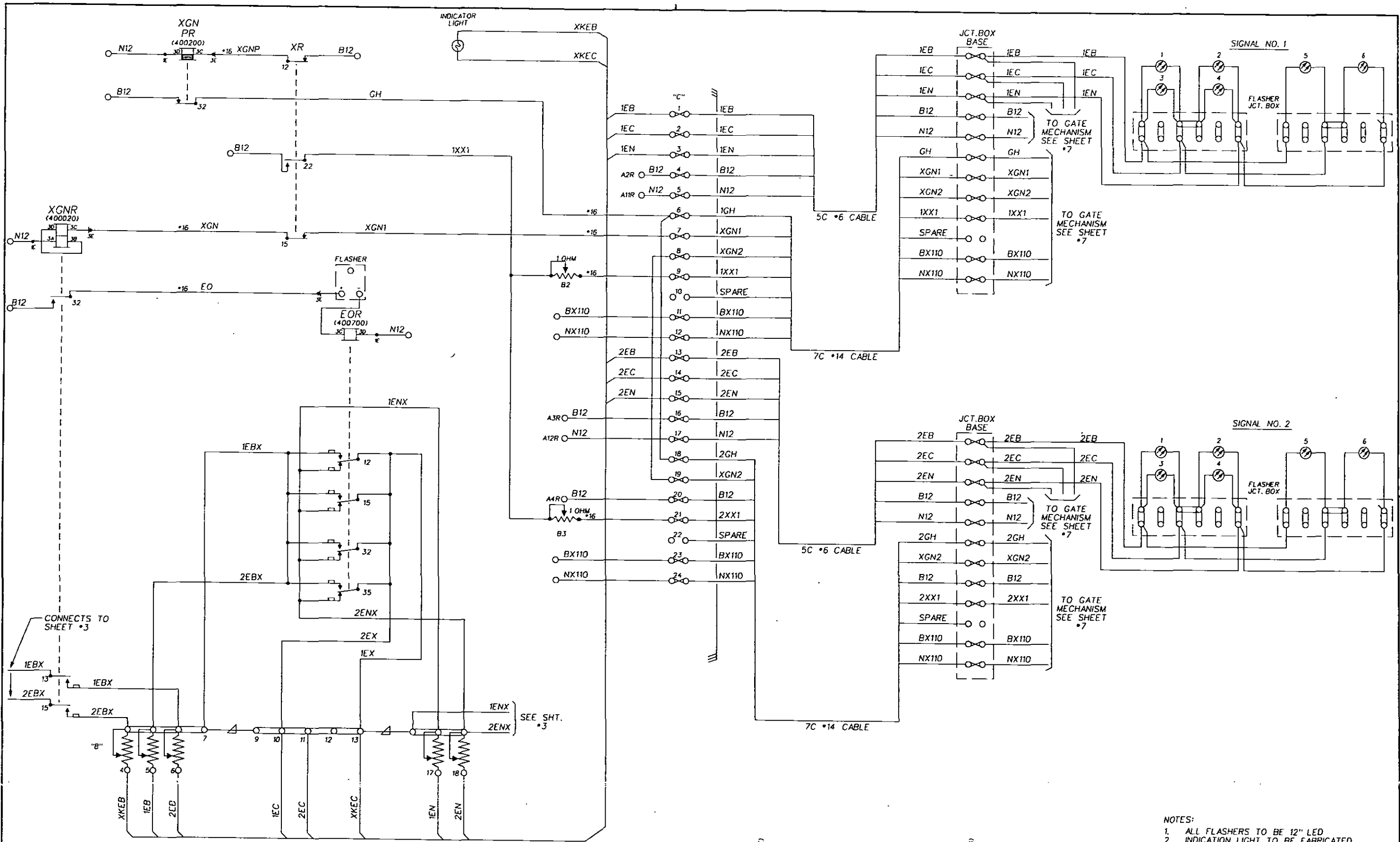
GCP 3000 PARAMETERS

LOCATION: DURYEA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.91

ISSUE DATE:  
 REV. 1  
 PLAN: D501-0019  
 SHEET 6



0501.0019.006.dgn



- NOTES:
1. ALL FLASHERS TO BE 12" LED
  2. INDICATION LIGHT TO BE FABRICATED METALS PART NUMBER 241153
  3. ALL WIRING TO BE #10 UNLESS NOTED
  4. SOLID STATE FLASHER MUST RANGE BETWEEN 35 - 65 FLASHES PER MINUTE
  5. ALL RESISTORS FOR LIGHTING MUST BE 1 OHM

FOOTE AVENUE - DURYE, PA  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING DEVICES

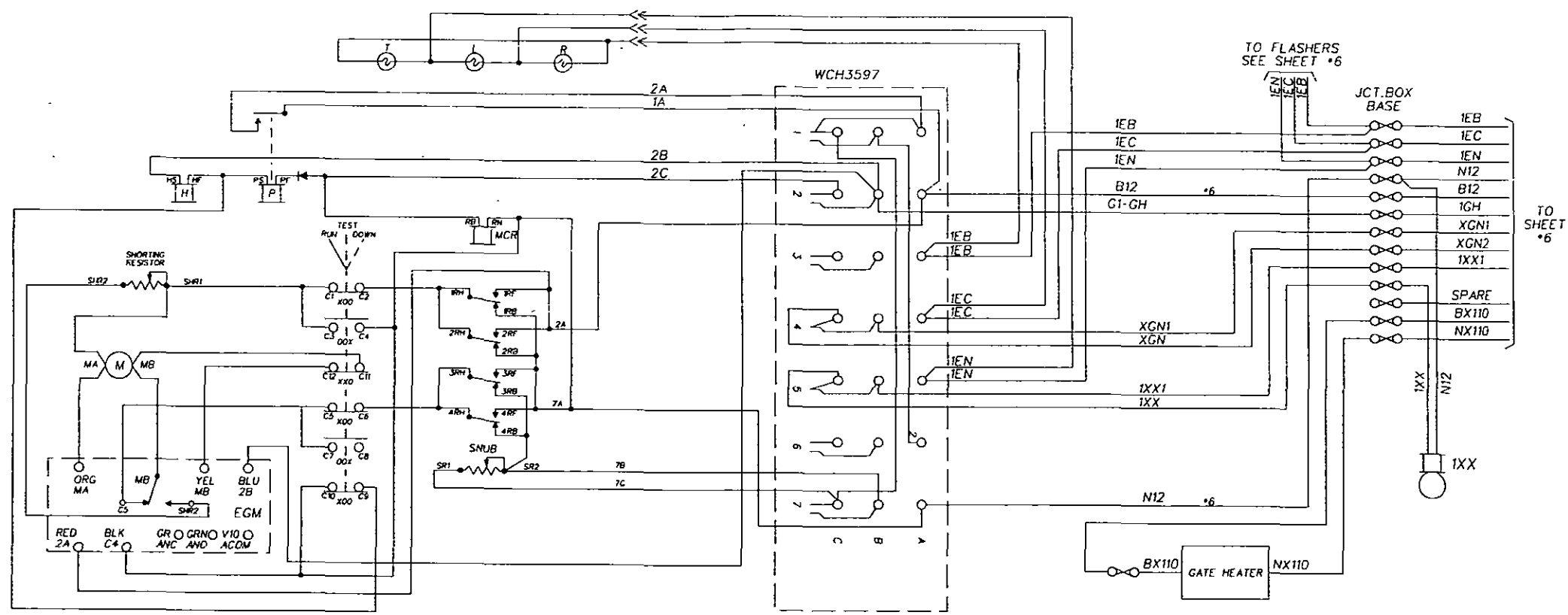
FLASHING LIGHT & GATE CIRCUITS

LOCATION:	DURYE, PA
LINE/BRANCH:	SUSQUEHANNA BRANCH
MILEPOST:	1.91

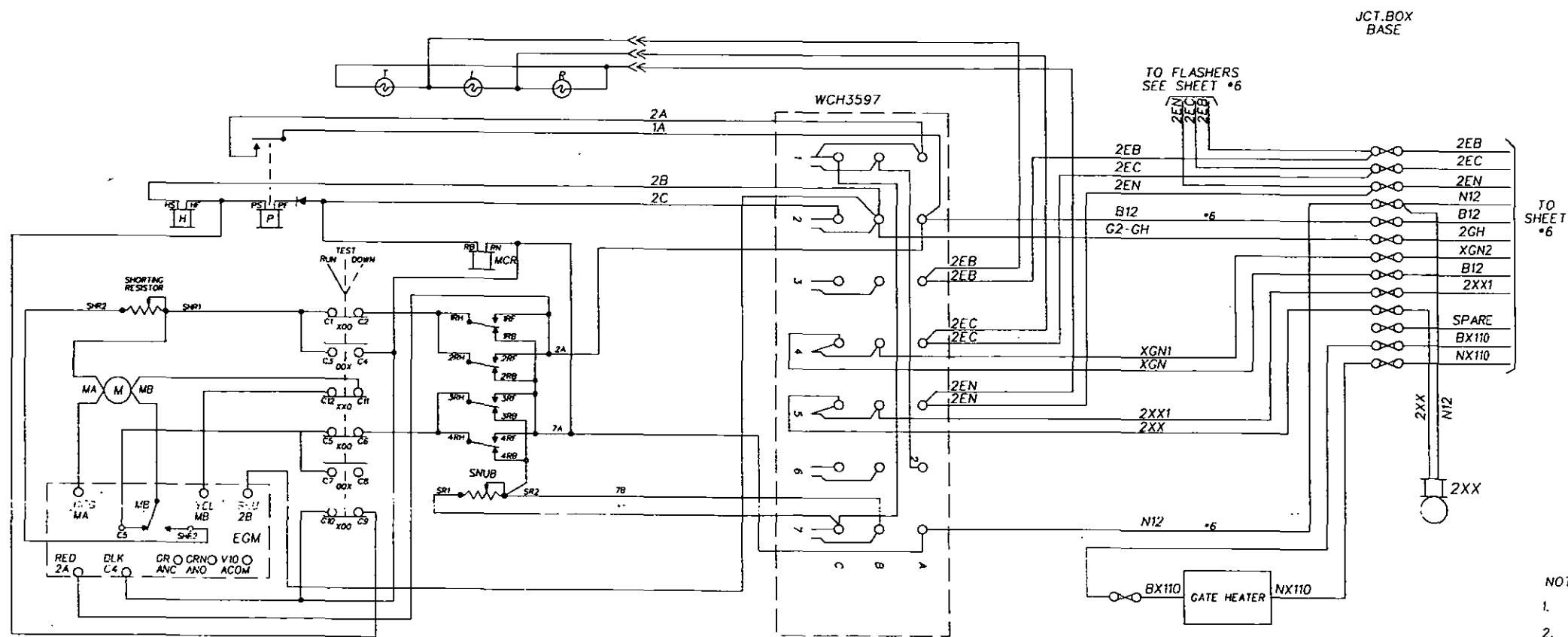
ISSUE DATE:	
REV. 1	
PLAN:	0501-0019
SHEET:	7



0501.0019.007.dgn



GATE #1



GATE #2

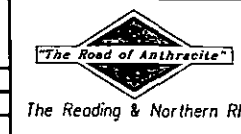
NOTES:

1. BELLS TO BE ELECTRONIC VERSION
2. GATE MECHANISMS TO BE WESTERN CULLEN HAYES 3597

FOOTE AVENUE - DURYEA, PA  
AUTOMATIC HIGHWAY CROSSING  
WARNING DEVICES

GATE CONTROL CIRCUITS

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA BRANCH	REV. 1	
MILEPOST:	1.91	PLAN:	0501-0019
		SHEET	8



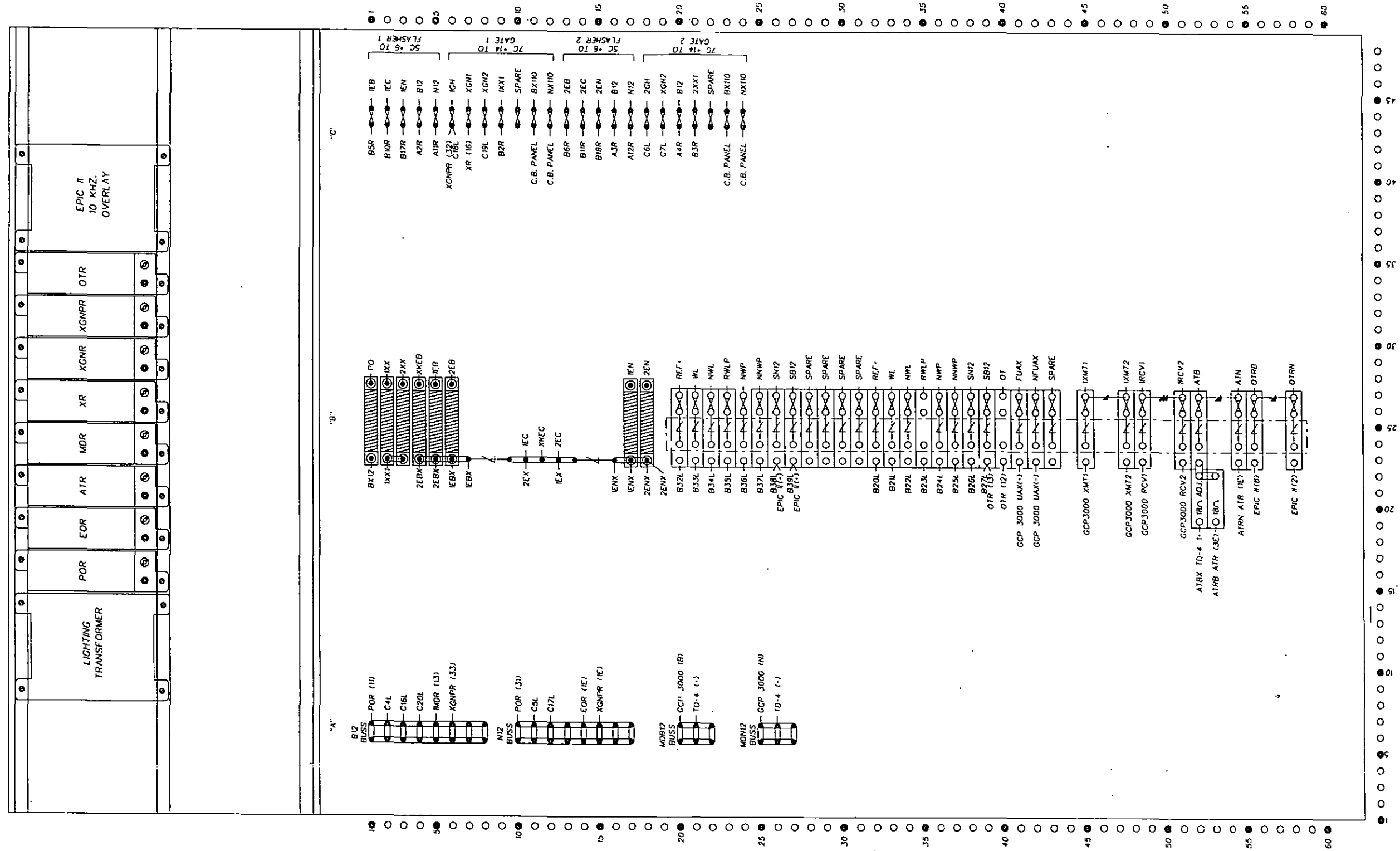
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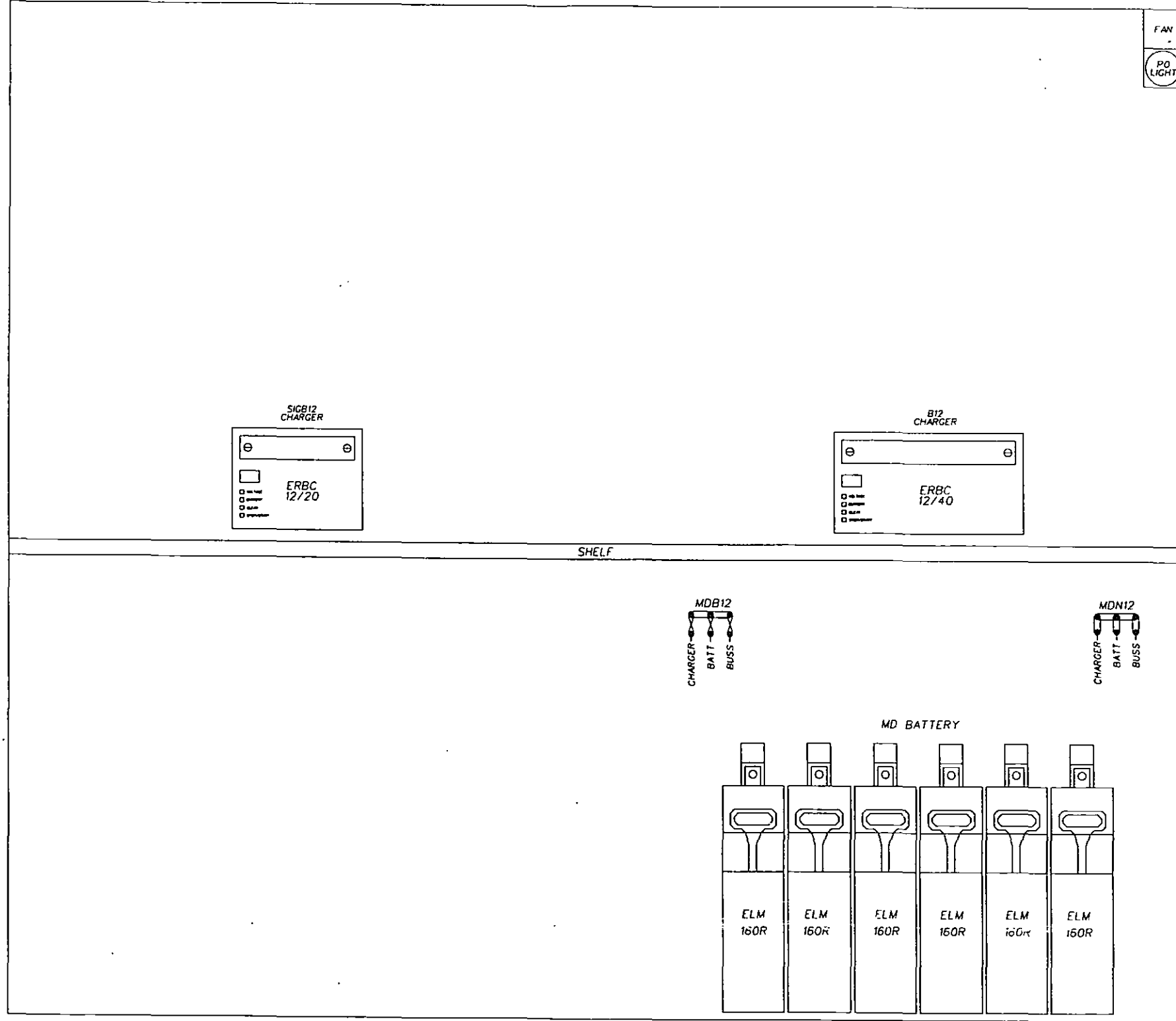
0501.0019.009.dgn

FOOTE AVENUE - DURYEA, PA  
AUTOMATIC HIGHWAY CROSSING  
WARNING SYSTEM

### TERMINAL BOARD ARRANGEMENT

LOCATION:	DURYEA, PA	ISSUE DATE:	
LINE/BRANCH:	SUSQUEHANNA BRANCH	REV. 1	
MILEPOST:	1.91	PLAN	0501-0019
		SHEET	9





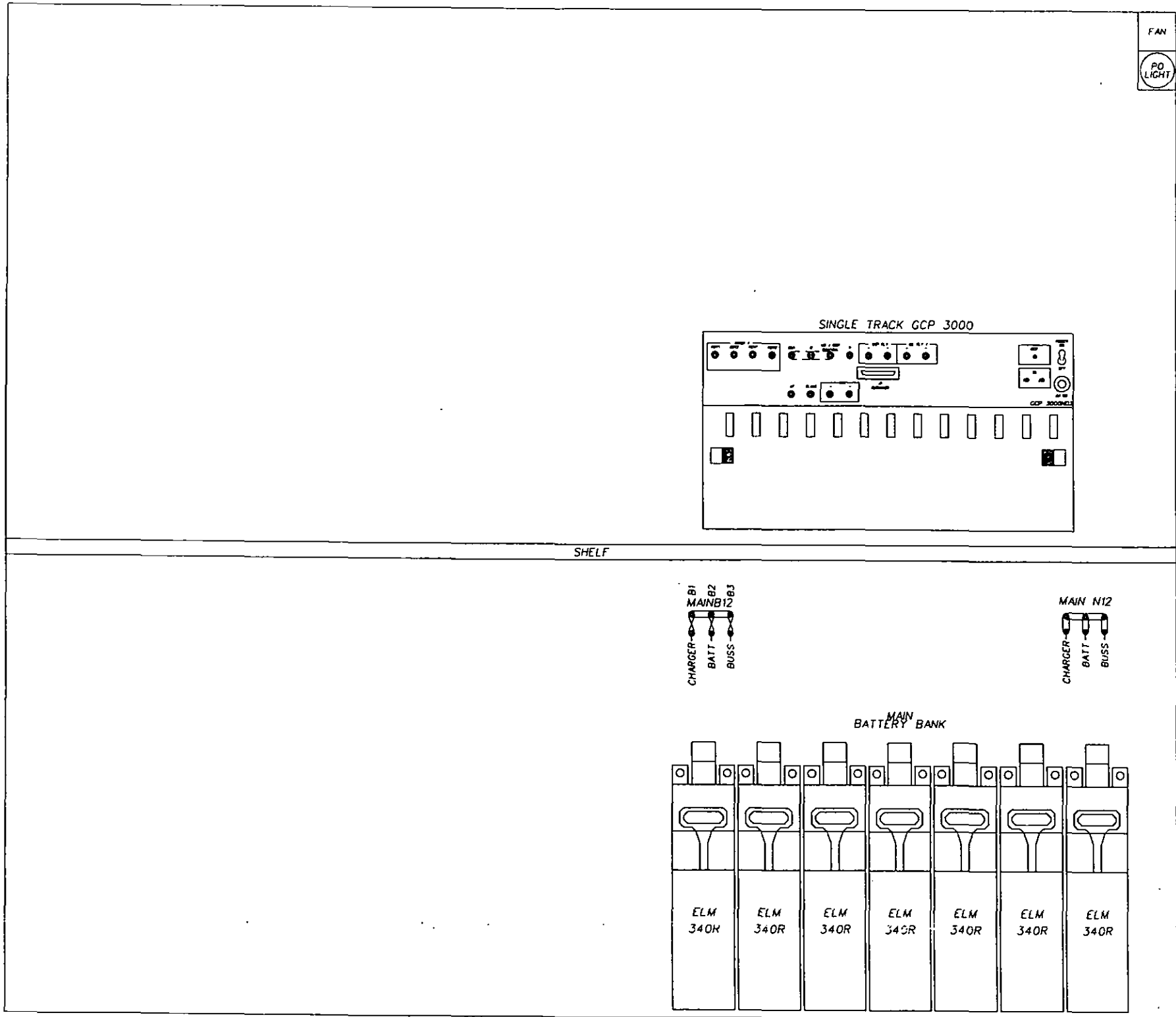
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 FOOTE AVENUE - DURYEA, PA  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING SYSTEM

BUNGALOW LAYOUT - LEFT SIDE

LOCATION: DURYEA, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.91

ISSUE DATE:  
 REV. 1  
 PLAN 0501-0019  
 SHEET 10





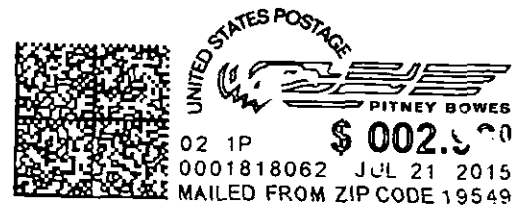
0501.0019\_011.dwg  
 FOOTE AVENUE - DURYE, PA  
 AUTOMATIC HIGHWAY CROSSING  
 WARNING SYSTEM

BUNGALOW LAYOUT - RIGHT SIDE

LOCATION: DURYE, PA  
 LINE/BRANCH: SUSQUEHANNA BRANCH  
 MILEPOST: 1.91

ISSUE DATE:  
 REV. 1  
 PLAN 0501-0019  
 SHEET 11





**READING BLUE MOUNTAIN  
& NORTHERN RAILROAD COMPANY**

1 RAILROAD BLVD. P.O. BOX 218  
PORT CLINTON, PA 19549

[WWW.RBMNRR.COM](http://WWW.RBMNRR.COM) [WWW.READINGNORTHERN.COM](http://WWW.READINGNORTHERN.COM)

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**TO:** MS. ROSEMARY CHIAVETTA, SEC.  
PA PUBLIC UTILITIES COMMISSION  
P.O. BOX 3265  
HARRISBURG, PA 17105