PROJECT REFERENCE NO.	SHEET NO.
W-5801J	Sig. 1.2

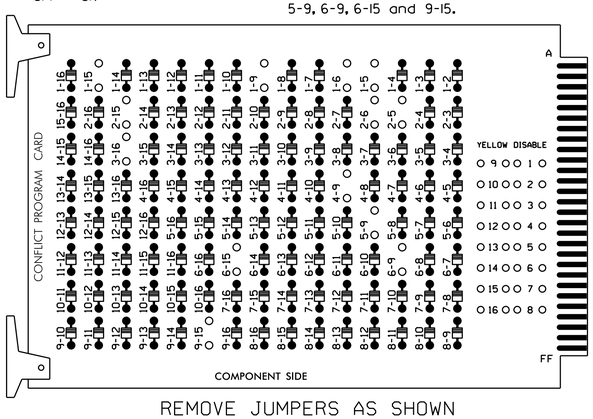
EDI MODEL 2010ECL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

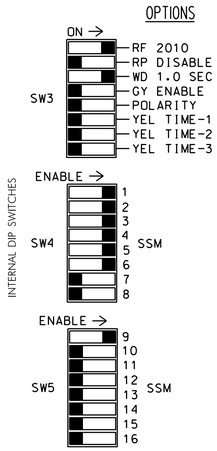
WD ENABLE

SW2 OFF ON

REMOVE DIODE JUMPERS I-5, I-6, I-9, I-15, 2-5, 2-6, 2-15, 3-16, 4-9, 5-9, 6-9, 6-15 and 9-15.



REMOVE JUMPERS AS SHOWN



■ = DENOTES POSITION OF SWITCH

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL2-SEL5 are present on the monitor board.
3. Make sure SW3 DIP switches YEL TIME-1, YEL TIME-2 and YEL TIME-3 are in the OFF position.

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. To prevent red failures on unused monitor channels, see Red Monitor Board Programming Detail this sheet.
3. Program controller to start up in phases 2 and 6 green.
4. Enable simultaneous gap-out feature, on controller unit, for all phases.
5. Program phases 2 and 6, on controller unit, for volume density operation.
6. The cabinet and controller are part of the Raleigh City Signal System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3			S4		S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3			4		4 PED	5	6	6 PED	7	8	8 PED	** OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11,12	21, 22,23	NU	31,32	33,34	62	41	42	NU	51	61,62	P61, P62	NU	NU	P31, P32	43,44	NU	NU	NU	NU	NU
RED		128			116		101	101			134					A121					
YELLOW		129			117		102	102			135										
GREEN		130			118		103	103			136										
RED ARROW	125			116						131											
YELLOW ARROW	126			117		117				132						A122					
GREEN ARROW	127			118		118	103			133						A123					
✋												119			110						
🚶												121			112						

NU = Not Used

** Rewire OLA to flash on Flash unit #2, Circuit #2.

EQUIPMENT INFORMATION

CONTROLLER.....2070L
CABINET.....McCAIN TRAFFIC MODEL 332
(DWG. NO. M11458 REV. A)
SOFTWARE.....SE-PAC2070
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 (12-STD, 6-AUX)
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S9,S6P,S8P
PHASES USED.....1,2,3,4,5,6,6 PED,3 PED
OVERLAP A.....1+4
OVERLAP B.....NONE
OVERLAP C.....NONE
OVERLAP D.....NONE

VEHICLE OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS 4 (UNIT DATA)

```
SE-PAC UNIT DATA                PRESS # DESIRED

1- STARTUP & MISC               6- ALT SEQUENCES
2- REMOTE FLASH                 7- PORT 1 DATA
3- OVERLAP STANDARD             8- I/O MISC
4- OVERLAP SPECIAL              9- SIG DRV OUT
5- RING STRUCTURE
                                F- PRIOR MENU
```

```
SE-PAC OVERLAP - A              (0-NO / 1-YES)

 OVL PHASES:  100100000 0000000
    PHS/CHN:  123456789 0123456789 01234
 OVL CHN(S):  000000000 0001000000 00000

A-UP  B-DN  D-DspChn  E-EDIT  F-PRIOR MENU
```

PRESS "F" TO RETURN TO UNIT DATA

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	Ø1 1A	Ø1 1C	Ø2 2A	SLOT	Ø3 3A	Ø4 4A	Ø3 3C	SLOT	SLOT	SLOT	SLOT	SLOT	Ø6 PED DC ISOLATOR	FS DC ISOLATOR
	L	Ø1 1B	Ø2 2C	Ø2 2B	EMPTY	Ø3 3B	NOT USED	Ø1 1D	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	Ø3 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	Ø5 5A	Ø6 6A,6B	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
	L	NOT USED	NOT USED	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME
NOTE: Test switch positions have been modified for phases 2, 4 and 6.
1) Phase 2 Det No. 6 Position I3L
2) Phase 4 Det No. 12 Position I6L
3) Phase 6 Det No. 22 Position J2L

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
1A	TB2-1,2	I1U	56	1	1		
1B	TB2-3,4	I1L	56	1	1		
1C	TB2-5,6	I2U	39	3	1	15	
1D	TB6-3,4	I7L	78	14	1	15	
2A	TB2-9,10	I3U	63	5	2		
2B	TB2-11,12	I3L	76	6	2		
2C	TB2-7,8	I2L	43	4	2		
3A	TB4-5,6	I5U	58	9	3		
3B	TB4-7,8	I5L	58	9	3		
3C	TB6-1,2	I7U	65	13	3	10	
4A	TB4-9,10	I6U	41	11	4		
5A	TB3-1,2	J1U	55	19	5		
6A,6B	TB3-5,6	J2U	40	21	6		
PED PUSH BUTTONS							
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED		
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED		

NOTE:
INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

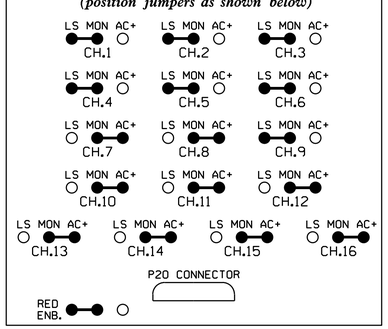
INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

RED MONITOR BOARD PROGRAMMING

(position jumpers as shown below)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 05-0297
DESIGNED: October 2014
SEALED: 12-09-14
REVISED: N/A

Electrical Detail - Sheet 1 of 2

REVISION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 008453 ENGINEER JOHN T. ROWE, JR.

DocuSigned by: John T. Rowe, Jr. 12/11/2014 DATE
641D60C145EE4F5...

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 Greenfield Pkwy, Garner, NC 27529

SR 2911 (New Bern Avenue) at Sunnybrook Road/ Shanta Drive

Division 5 | Wake County | Raleigh

PLAN DATE:	Feb 2011	REVIEWED BY:	D.J. Darity
PREPARED BY:	D.J. Darity	REVIEWED BY:	2010032.01

REVISIONS	INIT.	DATE
Added pedestrian signals. (JP)	JTR	12/11/2014

SEAL

Not a certified document as to the Original Document but Only as to the Revisions - This document originally issued and sealed by Donald J. Darity, PE #019713, on 03/22/2011.
This document is only certified as to the revisions.

SIGNATURE DATE

SIG. INVENTORY NO. 05-0297

10-DEC-2014 11:25
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