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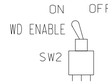
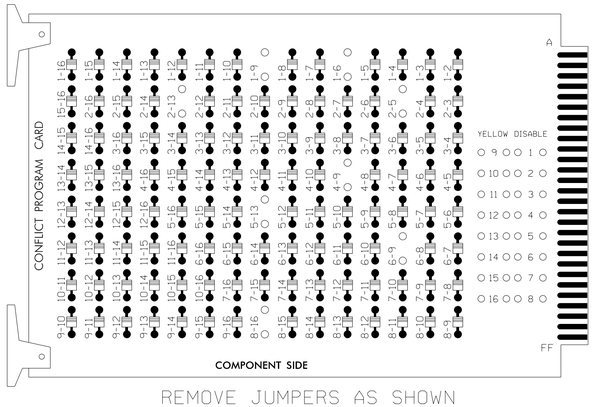
PROJECT REFERENCE NO.	SHEET NO.
R-5816	Sig. 1.6

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

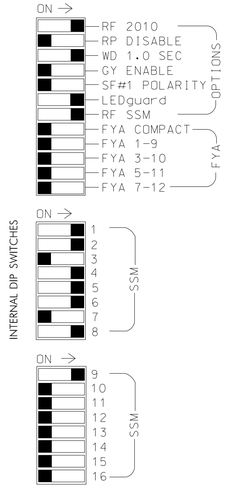
(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 1-6, 1-9, 2-5, 2-13, 4-9, 5-13, 6-9 and 8-16.



REMOVE JUMPERS AS SHOWN



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.

■ = DENOTES POSITION OF SWITCH

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 phases 1, 2, 5 and 6 for Dual Entry.
4. Enable Simultaneous Gap-Out for all phases.
5. Program phases 2 and 5 for First Phases.
6. Program phases 2 and 8 for 'STARTUP PED CALL'.
7. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlap.
8. The cabinet and controller are part of the NC 58 Atlantic Beach Closed Loop System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET.....332 /W/ AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S2P,S4,S5,S6,S8, S8P,S9.
PHASES USED.....1,2,4,5,6,8,2 PED,8 PED.
OVERLAP "A".....4+6
OVERLAP "B".....NOT USED
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED
OVERLAP "E".....NOT USED
OVERLAP "F".....NOT USED

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	21	22	P21, P22	NU	41	42	43	NU	51	61,62	NU	NU	81	82,83	P81, P82	63,64	NU	NU	NU	NU	NU
RED		128	128				101	101			134				107		A121					
YELLOW		129	129				102	102			135				108							
GREEN		130	130				103	103			136				109							
RED ARROW	125					101				131				107								
YELLOW ARROW	126					102				132				108			A122					
FLASHING YELLOW ARROW																						
GREEN ARROW	127	130				103	103			133				109			A123					
✋				113												110						
🚶				115												112						

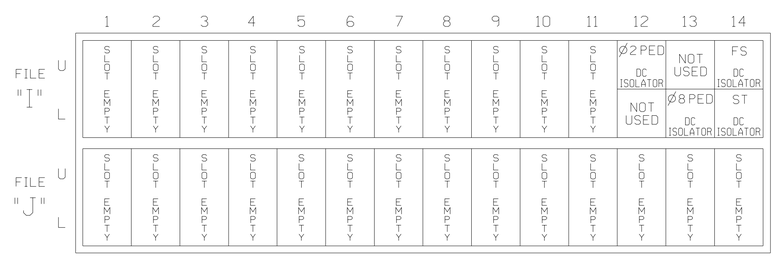
NU = Not Used

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.

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

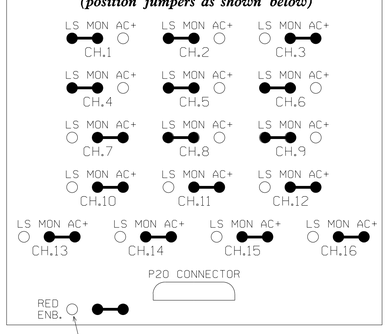
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8 PED					

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

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

RED MONITOR BOARD PROGRAMMING

(position jumpers as shown below)



This pin clipped at the factory.

SPECIAL DETECTOR NOTE

Install a multizone microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 02-0256
DESIGNED: July 2022
SEALED: 7/26/2022
REVISED:

Project #: 38564.16

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
919.829.0328

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

NC 58 (Fort Macon Road) at SR 1182 (Atlantic Beach Cswy)

Division 2 Carteret County Atlantic Beach

PLAN DATE: July 2022	REVIEWED BY:
PREPARED BY: J. Townsend	REVIEWED BY:

REVISIONS	INIT.	DATE

750 N.Greenfield Pkwy,Garner,NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031533 ENGINEER JOHN G. TOWNSEND
7/26/2022
SIGNATURE DATE
SIG. INVENTORY NO. 02-0256

7/26/2022
R:\Carteret\Signals\Design\Signals\02025612_sm_ele.dgn
User:jtownsend