PROJECT REFERENCE NO.	SHEET NO.
R-2603	Sig. 2.1

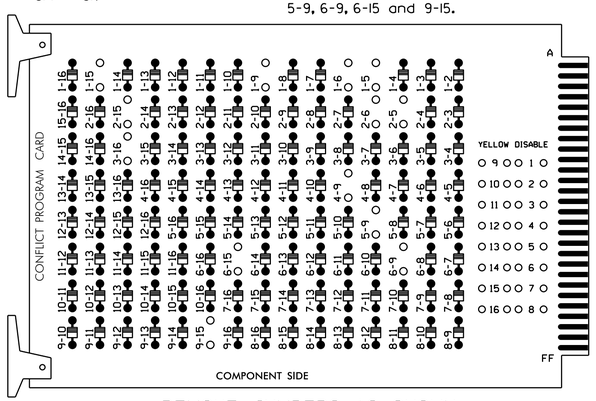
EDI MODEL 2010ECL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

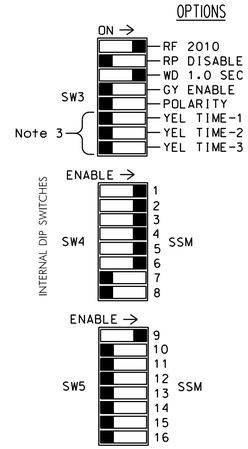
WD ENABLE

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 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. Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 7,8,10,11,12,13,14,15 & 16 to load switch AC+ per thecabinet manufacturer's instructions.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 3 and 6 for 'STARTUP PED CALL'.
6. Program phases 2 and 6 for Yellow Flash.
6. The cabinet and controller are part of the NC 18-268 (2nd St) CLS.

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET .....332 W/ AUX
SOFTWARE .....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S6P,S8P,S9
PHASES USED.....1,2,3,4,5,6,6 PED, 3 PED
OVERLAP A .....1+4

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	3 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11,12	21,22	NU	31	32	41	42	43	NU	51	32	61,62	P61 P62	NU	NU	P31 P32	44,45	NU	NU	NU	NU	NU
RED		128		116	116		101	101				134					A121					
YELLOW		129		117	117		102	102				135										
GREEN		130		118	118		103	103				136										
RED ARROW	125					101				131												
YELLOW ARROW	126					102				132	132						A122					
GREEN ARROW	127			118		103	103			133	133						A123					
✋													119			110						
🚶													121			112						

NU = Not Used

NOTE: For signal heads 44 and 45 to flash concurrently with 41, 42 and 43, remove the wire from O1-5 on the rear of the output file and terminate it on O1-8.

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)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT EMPTY	Ø1 1A	Ø2 2A,2B	SLOT EMPTY	Ø3 3A	Ø4 4A	Ø5 5B	Ø1 1D	SYS. DET. SØ5	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø6 PED DC ISOLATOR	FS DC ISOLATOR
	L		Ø1 1B	NOT USED		NOT USED	Ø4 4B	Ø1 1C	Ø1 1E	SYS. DET. SØ6				Ø3 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	Ø5 5A	Ø6 6A,6B	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SYS. DET. SØ7	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L	NOT USED	NOT USED							SYS. DET. SØ8					

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
1A	TB2-5,6	I2U	39	1	2	1	Y	Y			3
1B	TB2-7,8	I2L	43	5	12	1	Y	Y			
1C	TB6-3,4	I7L	78	40	44	1	Y	Y			10
1D	TB6-5,6	I8U	49	11	24	1	Y	Y			15
1E	TB6-7,8	I8L	49	11	24	1	Y	Y			15
2A,2B	TB2-9,10	I3U	63	25	32	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			3
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB6-1,2	I7U	65	27	34	5	Y	Y			15
6A,6B	TB3-5,6	J2U	40	2	6	6	Y	Y			
*SØ5	TB6-9,10	I9U	60	22	11	SYS					
*SØ6	TB6-11,12	I9L	62	24	13	SYS					
*SØ7	TB7-9,10	J9U	59	21	15	SYS					
*SØ8	TB7-11,12	J9L	61	23	17	SYS					
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P31,P32	TB8-8,9	I13L	70	32	PED 8	3 PED					

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

PED 3 PROGRAMMING DETAIL

(program controller as shown below)

CHANGING OUTPUT ASSIGNMENTS

1. From Main Menu select '6' (OUTPUTS), then '1' (OUTPUT ASSIGNMENTS)
2. Enter 17 (Phase 8 DW) for Output Assignment # (C1 Pin: 19)
3. Scroll down to 'Pedestrian Phase' and enter 'Y' REGARDLESS OF DEFAULT PROGRAMMING!
4. Enter '3' for 'Select Pedestrian Phase'. No change needed for 'Select Color'
5. Backup to 'Output Assignments and Settings Menu:' by pressing the 'ESC' button on keyboard.
6. Select '1' (Output Assignments)
7. Enter 18 (Phase 8 W) for output assignment # (C1 Pin 20)
8. Repeat steps # 3 and # 4.

CHANGING INPUT ASSIGNMENTS

1. From Main Menu select '7' (DETECTORS), then '2' (PEDESTRIAN DETECTOR ASSIGNMENTS)
2. Cycle to PED Detector #8 by repeatedly depressing '+' key
3. Modify Phase assigned to PED Detector # 8 from Phase 8 to Phase 3

PROGRAMMING COMPLETE

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

```
PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
PHASE:          :1234567891011121314151 6
VEH OVL PARENTS::X   X
VEH OVL NOT VEH::
VEH OVL NOT PED::
VEH OVL GRN EXT::
STARTUP COLOR: _ RED   _ YELLOW   _ GREEN
FLASH COLORS:  _ RED   _ YELLOW   _ GREEN
SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...N
GREEN EXTENSION (0-255 SEC).........0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)..0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)....0
```

OVERLAP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 11-0928
DESIGNED: June 2015
SEALED: 6/5/15
REVISED: N/A

Electrical Detail - Final

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 18 (Sparta Road/2nd Street) at NC 268 (Elkin Highway) / Taco Bell

Division 11 | Wilkes County | North Wilkesboro

PLAN DATE:	June 2015	REVIEWED BY:	T. Joyce
PREPARED BY:	B. Simmons	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022013 ENGINEER GEORGE C. BROWN

DocuSigned by: George C. Brown 6/18/2015
F12601E0GBEB434 DATE

SIG. INVENTORY NO. 11-0928

18-JUN-2015 11:18
S:\TTSAGM\TS\Signals\Workgroups\Sig Mgmt\SSimmons\Working Folder\Electrical Details\Division 11\R110928_smalele_xxx.dgn
bsimmons