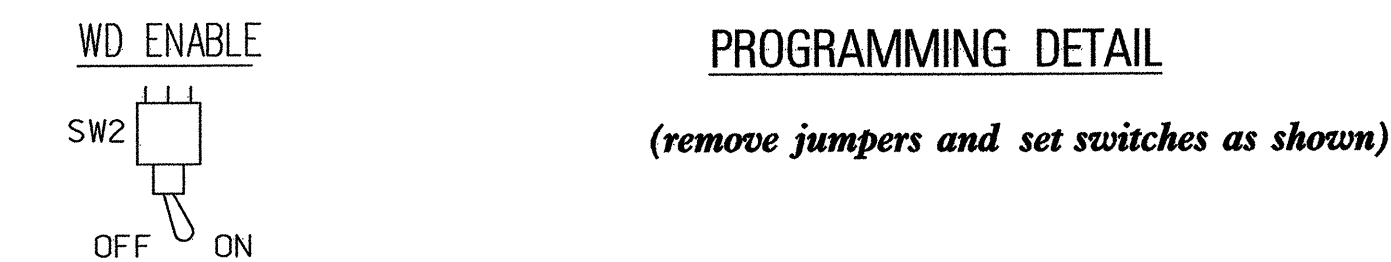


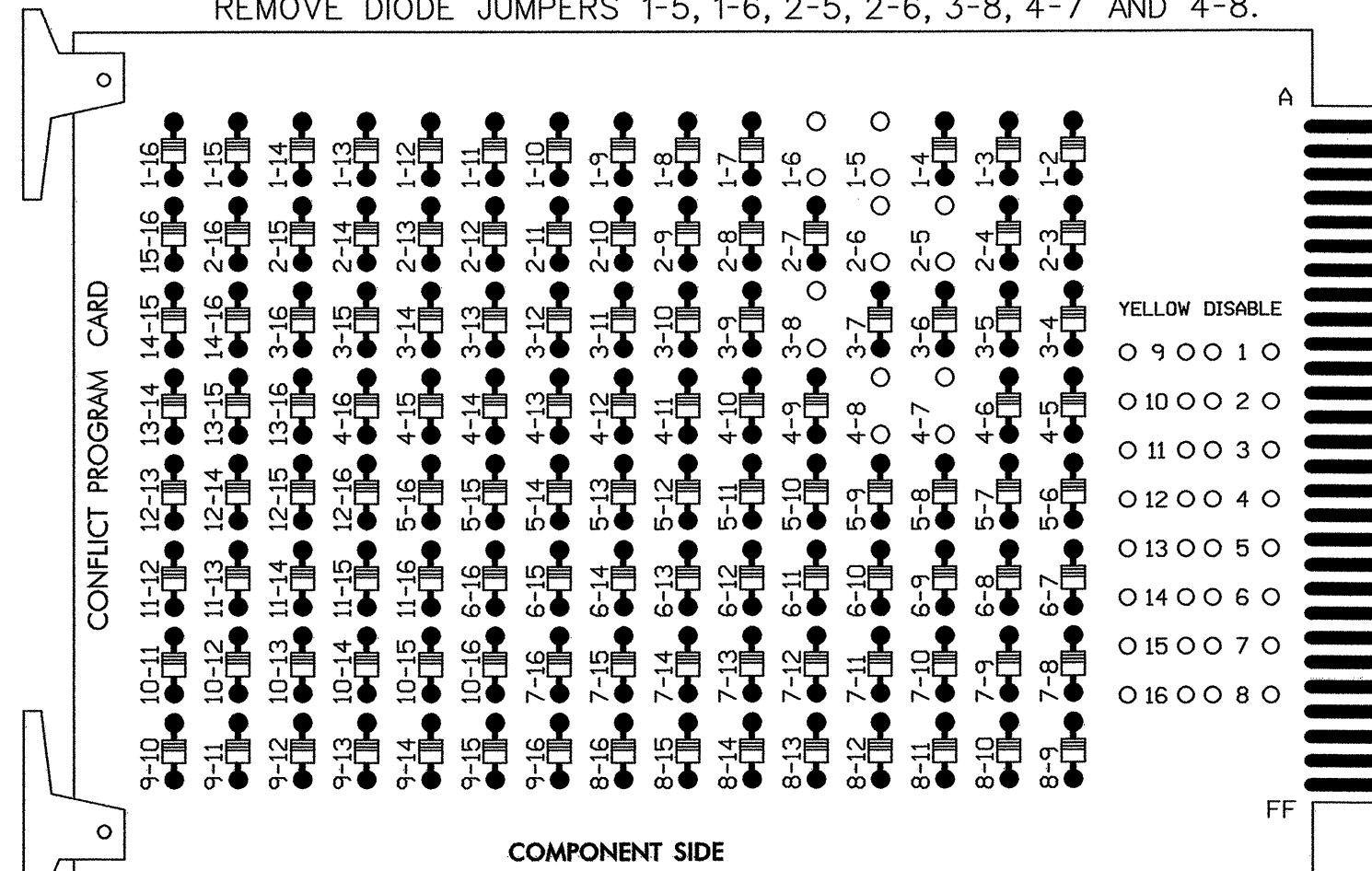
EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 2-5, 2-6, 3-8, 4-7 AND 4-8.

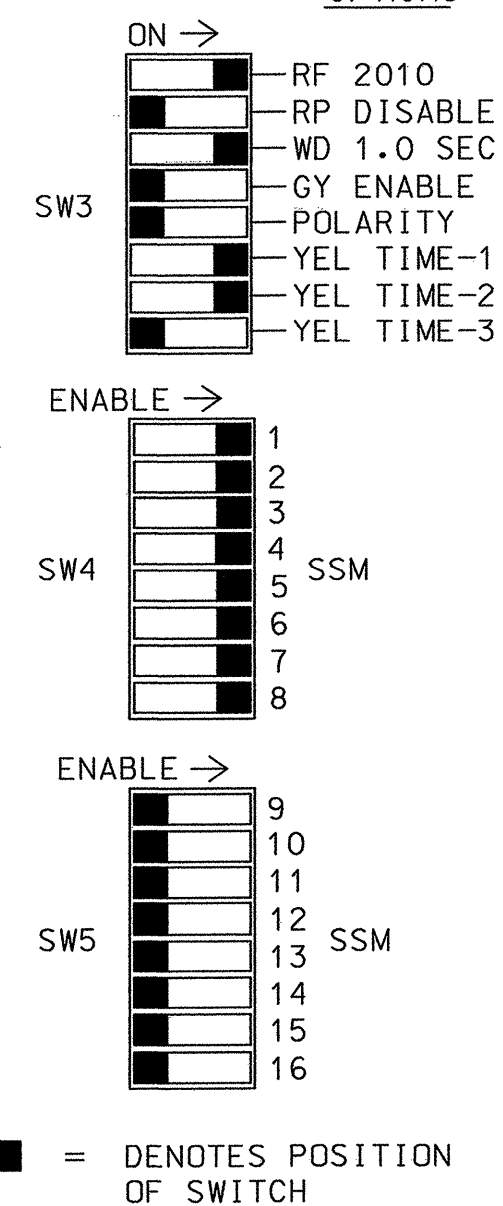


REMOVE JUMPERS AS SHOWN

NOTES:

- CARD IS PROVIDED WITH ALL DIODE JUMPERS IN PLACE. REMOVAL OF ANY JUMPER ALLOWS ITS CHANNELS TO RUN CONCURRENTLY.
- MAKE SURE JUMPERS SEL1-SEL5 ARE PRESENT ON THE MONITOR BOARD.

OPTIONS



NOTES

- 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.
- 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 9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- THE CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM. CONTROLLER ASSET: 0202

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINETCONTRACTOR SUPPLIED 332
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAPS.....NONE

FIELD CONNECTION HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P		
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED		
SIGNAL HEAD NO.	11,12	21,22	NU	22	31,32	41,42	NU	51,52	61,62	NU	62	71,72	81,82	NU
GREEN		130			103			136				109		
YELLOW		129			102			135				108		
RED		128			101			134				107		
RED ARROW	125				116			131				122		
YELLOW ARROW	126			117	117			132			123	123		
GREEN ARROW	127			118	118			133			124	124		

NU = NOT USED

INPUT FILE POSITION LAYOUT

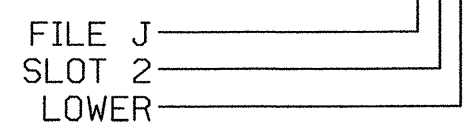
(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	∅ 1	∅ 2	S	S	∅ 3	∅ 4	∅ 4	SYS	S	S	S	S	FS
L	Y	1A	2A,2B	Y	Y	3A	4A,4B	4D	S5	Y	Y	Y	Y	DC ISOLATOR
U	Y	1B	2C,2D	Y	Y	3B	4C	NOT USED	S6	Y	Y	Y	Y	ST ISOLATOR
L	Y	5A	6A,6B	Y	Y	7A	8A,8B	8D	S7	Y	Y	Y	Y	
U	Y	5B	6C,6D	Y	Y	7B	8C	NOT USED	S8	Y	Y	Y	Y	
L	Y			Y	Y					Y	Y	Y	Y	

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

FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE POSITION LEGEND: J2L



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	-	---	---
1B	TB2-7,8	I2L	43	5	12	1	Y	Y	-	---	---
2A,2B	TB2-9,10	I3U	63	25	32	2	Y	Y	-	1.8	---
2C,2D	TB2-11,12	I3L	76	38	42	2	Y	Y	-	---	---
3A	TB4-9,10	I6U	41	3	4	3	Y	Y	-	---	3
3B	TB4-11,12	I6L	45	7	14	3	Y	Y	-	---	3
4A,4B	TB6-1,2	I7U	65	27	34	4	Y	Y	-	3.0	---
4C	TB6-3,4	I7L	78	40	44	4	Y	Y	-	---	---
4D	TB6-5,6	I8U	49	11	24	4	Y	Y	-	---	---
* S5	TB6-9,10	I9U	60	22	11	SYS	-	-	-	---	---
* S6	TB6-11,12	I9L	62	24	13	SYS	-	-	-	---	---
5A	TB3-5,6	J2U	40	2	6	5	Y	Y	-	---	---
5B	TB3-7,8	J2L	44	6	16	5	Y	Y	-	---	---
6A,6B	TB3-9,10	J3U	64	26	36	6	Y	Y	-	1.8	---
6C,6D	TB3-11,12	J3L	77	39	46	6	Y	Y	-	---	---
7A	TB5-9,10	J6U	42	4	8	7	Y	Y	-	---	3
7B	TB5-11,12	J6L	46	8	18	7	Y	Y	-	---	3
8A,8B	TB7-1,2	J7U	66	28	38	8	Y	Y	-	3.0	---
8C	TB7-3,4	J7L	79	41	48	8	Y	Y	-	---	---
8D	TB7-5,6	J8U	50	12	28	8	Y	Y	-	---	---
* S7	TB7-9,10	J9U	59	21	15	SYS	-	-	-	---	---
* S8	TB7-11,12	J9L	61	23	17	SYS	-	-	-	---	---

* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

PHASE SEQUENCE PROGRAMMING DETAIL

(program controller as shown below)

FROM OASIS LOCAL CONTROLLER MAIN MENU
 SELECT: 8 PHASE SEQUENCE

PHASE SEQUENCE: PAGE 1	NEXT: PAGES						
RNG:LEAD	BARRIER 1	X-LAG:LEAD	BARRIER 2	X-LAG			
1 1	2 0	0 3	4 0	0 0			
2 5	6 0	0 0	8 0	7 0			
3 0	0 0	0 0	0 0	0 0			
4 0	0 0	0 0	0 0	0 0			

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0202
 DESIGNED: AUGUST 2003
 SEALED: 12/11/2003
 REVISED: TBD

SIGNAL UPGRADE

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 74-76 (EASTWOOD ROAD) AT US 76 / SR 1409 (MILITARY CUTOFF ROAD)

Prepared for the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 07438 ENGINEER JAMES O. DEATON

DIVISION 03 NEW HANOVER COUNTY WILMINGTON

PLAN DATE: NOVEMBER 2003 REVIEWED BY: J O DEATON

PREPARED BY: M W YALCH REVIEWED BY:

REVISIONS INIT. DATE

122 N. McDowell St., Raleigh, NC 27603

12/16/03

SIG. INVENTORY NO. 03-0202