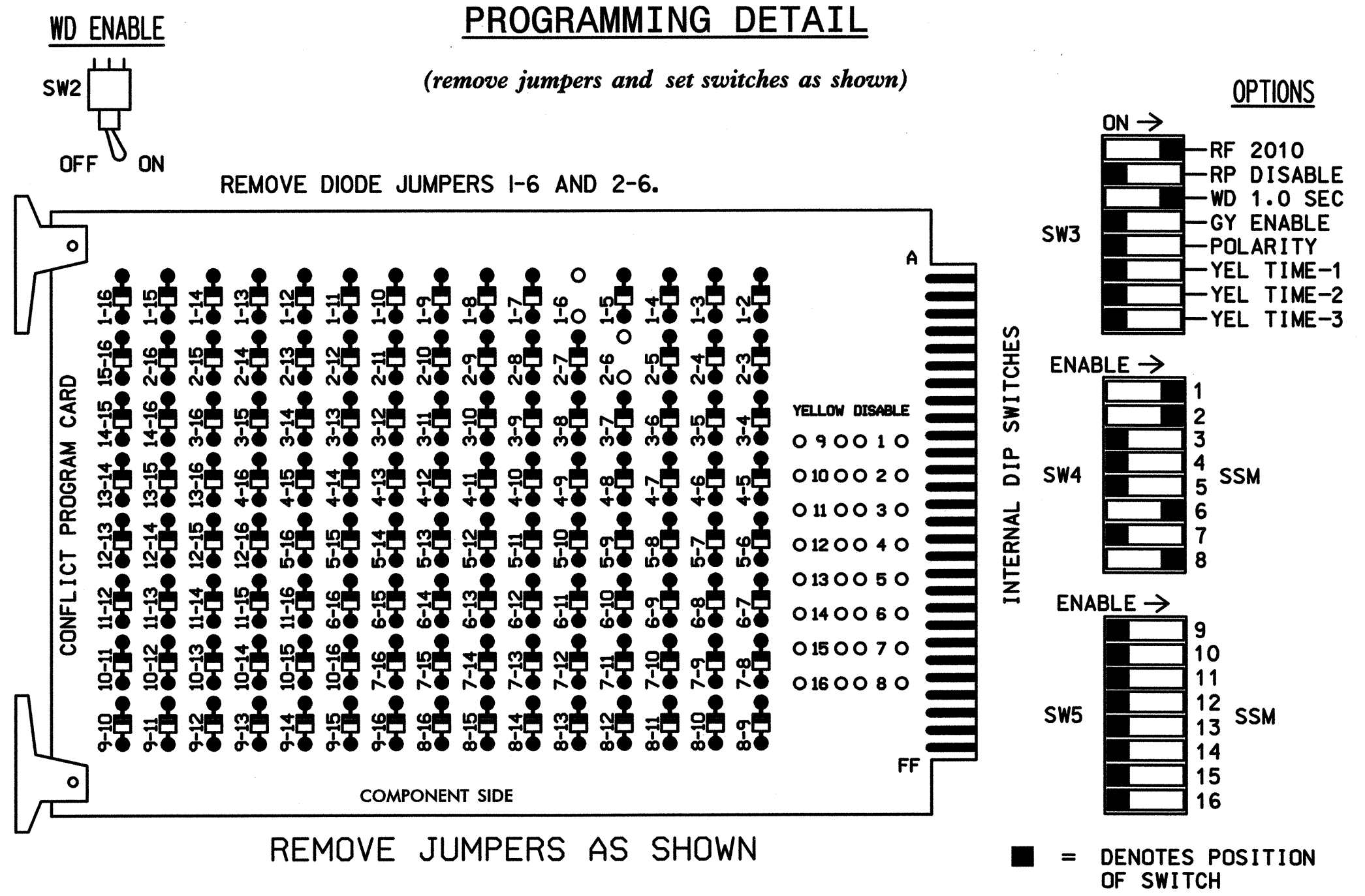


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



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.

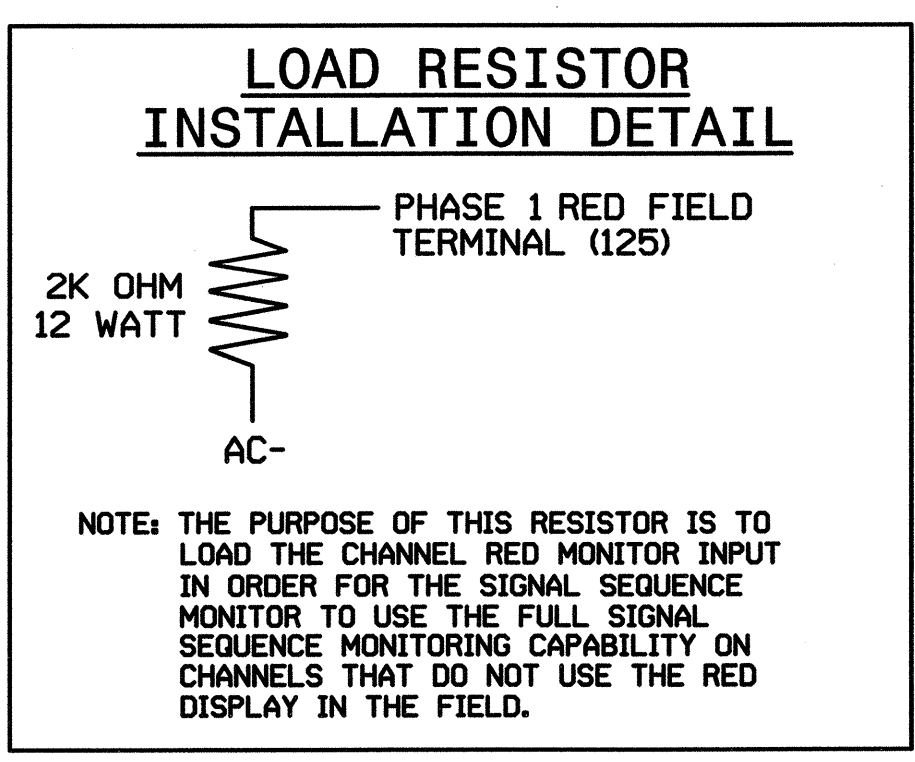
INPUT FILE POSITION LAYOUT

(front view)

FILE "I" U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
L	∅ 1 1B	∅ 2 2A	∅ 1 1A	∅ 4 4A	∅ 5 5A	∅ 7 7A	∅ 8 8A	∅ 9 9A	∅ 10 10A	∅ 11 11A	∅ 12 12A	∅ 13 13A	∅ 14 14A	FS DC ISOLATOR ST DC ISOLATOR
FILE "J" U	∅ 6 6A	∅ 8 8A	∅ 9 9A	∅ 10 10A	∅ 11 11A	∅ 12 12A	∅ 13 13A	∅ 14 14A	∅ 15 15A	∅ 16 16A	∅ 17 17A	∅ 18 18A	∅ 19 19A	∅ 20 20A
L	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

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

FS = FLASH SENSE
ST = STOP TIME



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 3,4,5,7,9,10,11,12,13,14,15 & 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.
- PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VARIABLE INITIAL AND GAP REDUCTION.
- THE CABINET AND CONTROLLER ARE PART OF THE NC 42 CLOSED LOOP SYSTEM.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINETCONTRACTOR SUPPLIED 332
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S6,S8
 PHASES USED.....1,2,6,8
 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.	82	61	21,22	NU	NU	NU	NU	61,62	NU	NU	81,82	NU
GREEN			130					136			109	
YELLOW			129					135			108	
RED		*	128					134			107	
RED ARROW												
YELLOW ARROW	126	126										
GREEN ARROW	127	127										
⚠												
⚡												

NU = NOT USED
 * DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

BACK-UP PROTECTION PROGRAMMING DETAIL

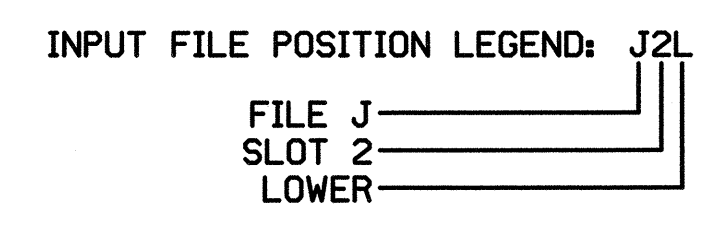
(program controller as shown below)

FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). PROGRAM PHASE 6 FOR 'BACKUP PROTECT'. MAKE SURE THE RED REVERT TIMES SHOWN ON THE SIGNAL DESIGN PLANS ARE PROGRAMMED IN THE 'PHASE TIMING' MENU.

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
1B	TB2-1,2	I1U	56	18	1	1	Y	Y	-	-	15
2A	TB2-5,6	I2U	39	1	2	2	Y	Y	-	-	-
1A ¹	TB2-9,10	I3U	63	25	32	1	Y	Y	-	-	15
	TB2-11,12	I3L	76	38	42	6	Y	Y	Y	-	3
* S3	TB6-9,10	I9U	60	22	11	SYS	-	-	-	-	-
6A	TB3-5,6	J2U	40	2	6	6	Y	Y	-	-	-
8A	TB5-9,10	J8U	42	4	8	8	Y	Y	-	-	3

¹ADD JUMPERS FROM TB2-9 TO TB2-11, AND FROM TB2-10 TO TB2-12.
 * SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1318
 DESIGNED: 11-04
 SEALED: 01-26-05
 REVISED:

TYPE 2070L CONTROLLER & 332 CABINET

Final Signal Design

	NC 42 At SR 1556 (Government Rd)		
	Division 04 Johnston County S of Clayton PLAN DATE: November 2004 REVIEWED BY: S.T. Franklin PREPARED BY: T.R. Terrell REVIEWED BY: H.L. Winstead	REVISIONS INIT. DATE _____ _____	
HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609		SEAL INVENTORY NO. 04-1318	