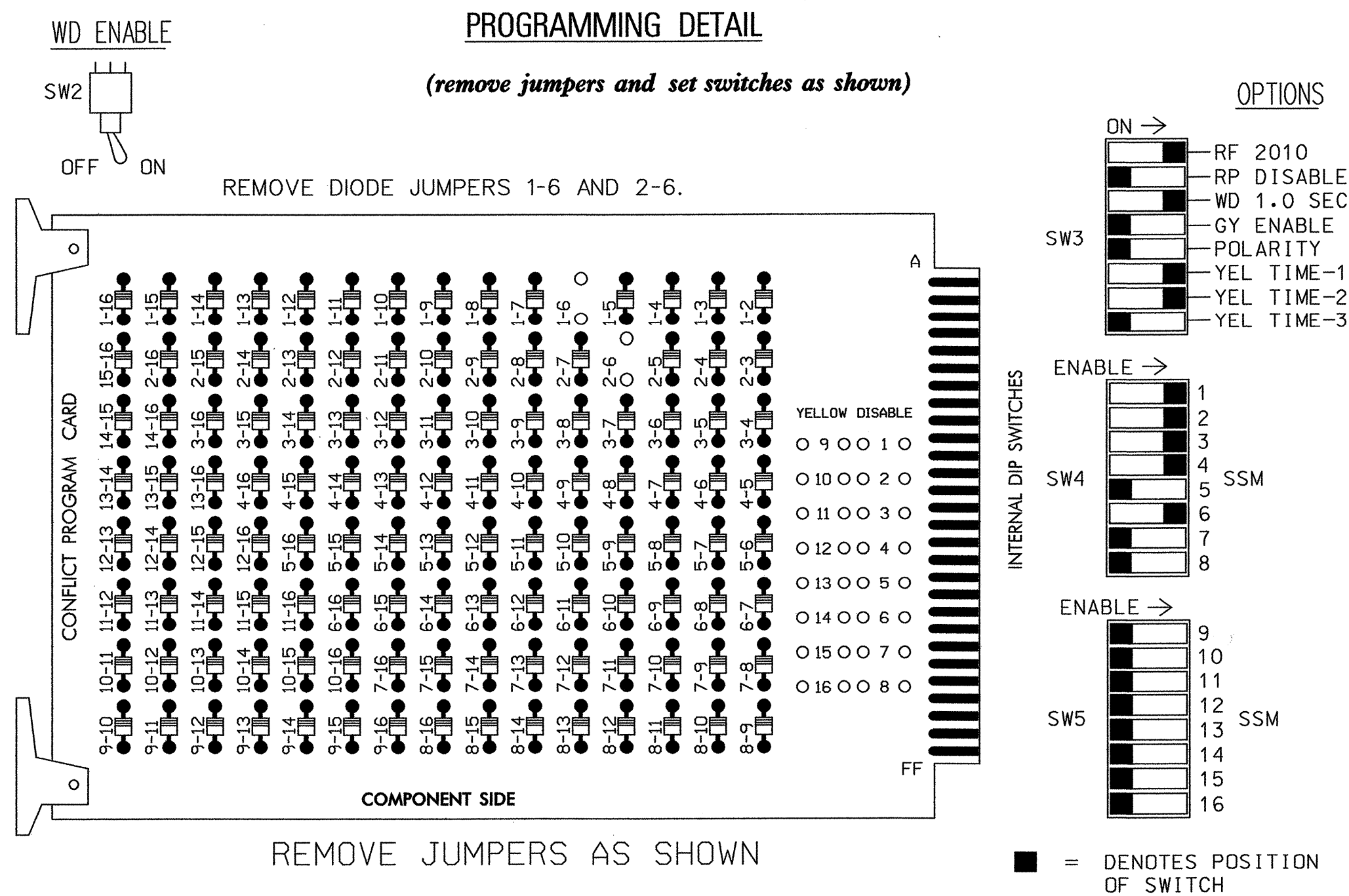


EDI MODEL 2010ECL CONFLICT MONITOR



- 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"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	∅ 1	∅ 1	∅ 2	∅ 2	S	∅ 3	∅ 4	S	S	S	S	S	S	FS
	1B	1A	2A	2C	3A	4A	3B	4B	Y	Y	Y	Y	Y	DC ISOLATOR
	NOT USED	∅ 6	∅ 2	NOT USED	∅ 3	∅ 4	Y	Y	Y	Y	Y	Y	Y	ST
		1A	2B		3B	4B	Y	Y	Y	Y	Y	Y	Y	DC ISOLATOR
FILE "J"	S	∅ 6/SYS	S	S	S	S	S	S	S	S	S	S	S	S
	6A/S3	6A/S3	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4	6B/S4

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
1B	TB2-1,2	I1U	56	18	1	1	Y	Y	-	---	15
1A ¹	TB2-5,6	I2U	39	1	2	1	Y	Y	-	---	15
	TB2-7,8	I2L	43	5	12	6	Y	Y	Y	---	3
2A	TB2-9,10	I3U	63	25	32	2	Y	Y	-	---	--
2B	TB2-11,12	I3L	76	38	42	2	Y	Y	-	---	--
2C	TB4-1,2	I4U	47	9	22	2	Y	Y	Y	---	3
3A	TB4-9,10	I6U	41	3	4	3	Y	Y	-	---	3
3B	TB4-11,12	I6L	45	7	14	3	Y	Y	-	---	--
4A	TB6-1,2	I7U	65	27	34	4	Y	Y	-	---	3
4B	TB6-3,4	I7L	78	40	44	4	Y	Y	-	---	15
X 6A/S3	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y	-	---	--
X 6B/S4	TB3-7,8	J2L	44	6	16	6/SYS	Y	Y	-	---	--

¹ DENOTES ADD JUMPERS FOR LOOP 1A FROM TB2-5 TO TB2-7, AND FROM TB2-6 TO TB2-8.
* SYSTEM DETECTOR.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

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 5,7,8,9,10,11,12,13,14,15 & 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 CONTROLLER AND CABINET ARE TO BE PROGRAMMED AND WIRED TO BE PART OF A CLOSED LOOP SIGNAL SYSTEM.
CONTROLLER ASSET: 0782

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,S6
PHASES USED.....1,2,3,4,6
OVERLAPS.....NONE

BACK-UP PROTECTION PROGRAMMING DETAIL

(program controller as shown below)

- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE DYNAMIC/BACKUP CONTROL FUNCTION 1.
- FROM PHASE CONTROL FUNCTIONS MENU PRESS '2' (DYNAMIC/BACKUP CONTROL FUNCTIONS).

```
DYNAMIC/BACKUP CONTROL FUNCTION #01
OVERLAPS: ABCDEFGHIJKLMNP
IF OVERLAPS ARE ACTIVE |
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES: X
CALL PHASES: X
```

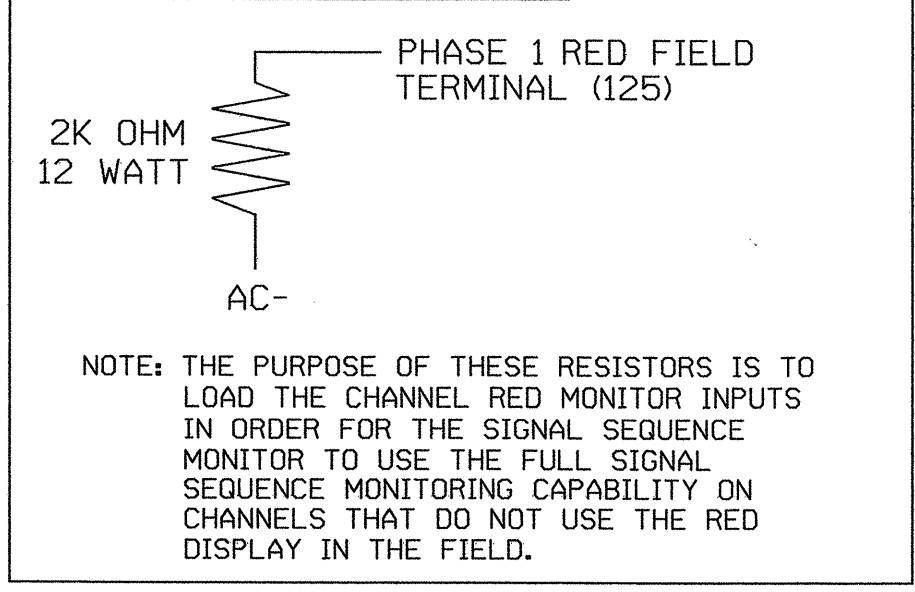
BACKUP PROTECTION PROGRAMMING COMPLETE

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.	32,61	21,22	NU	31	32	41	42	NU	NU	61,62	NU	NU
GREEN		130		118	118	103	103			136		
YELLOW		129		117	117	102	102			135		
RED	*	128		116	116	101	101			134		
RED ARROW												
YELLOW ARROW	126											
GREEN ARROW	127			118		103						
⚠												
⚡												

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

LOAD RESISTOR INSTALLATION DETAIL



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0782
DESIGNED: AUGUST 2003
SEALED: 12/11/2003
REVISED: TBD

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Prepared for the Offices of:
North Carolina State University
Department of Transportation
Signal Management Section
122 N. McDowell St., Raleigh, NC 27603

ELECTRICAL AND PROGRAMMING DETAILS FOR:
US 76 (WRIGHTSVILLE AVE.) / (MILITARY CUTOFF ROAD) AT SR 1996 (WRIGHTSVILLE AVENUE) AND BUSINESS DRIVEWAY
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
DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 07438
ENGINEER JAMES O. DEATON
DATE 12/11/03
SIG. INVENTORY NO. 03-0782