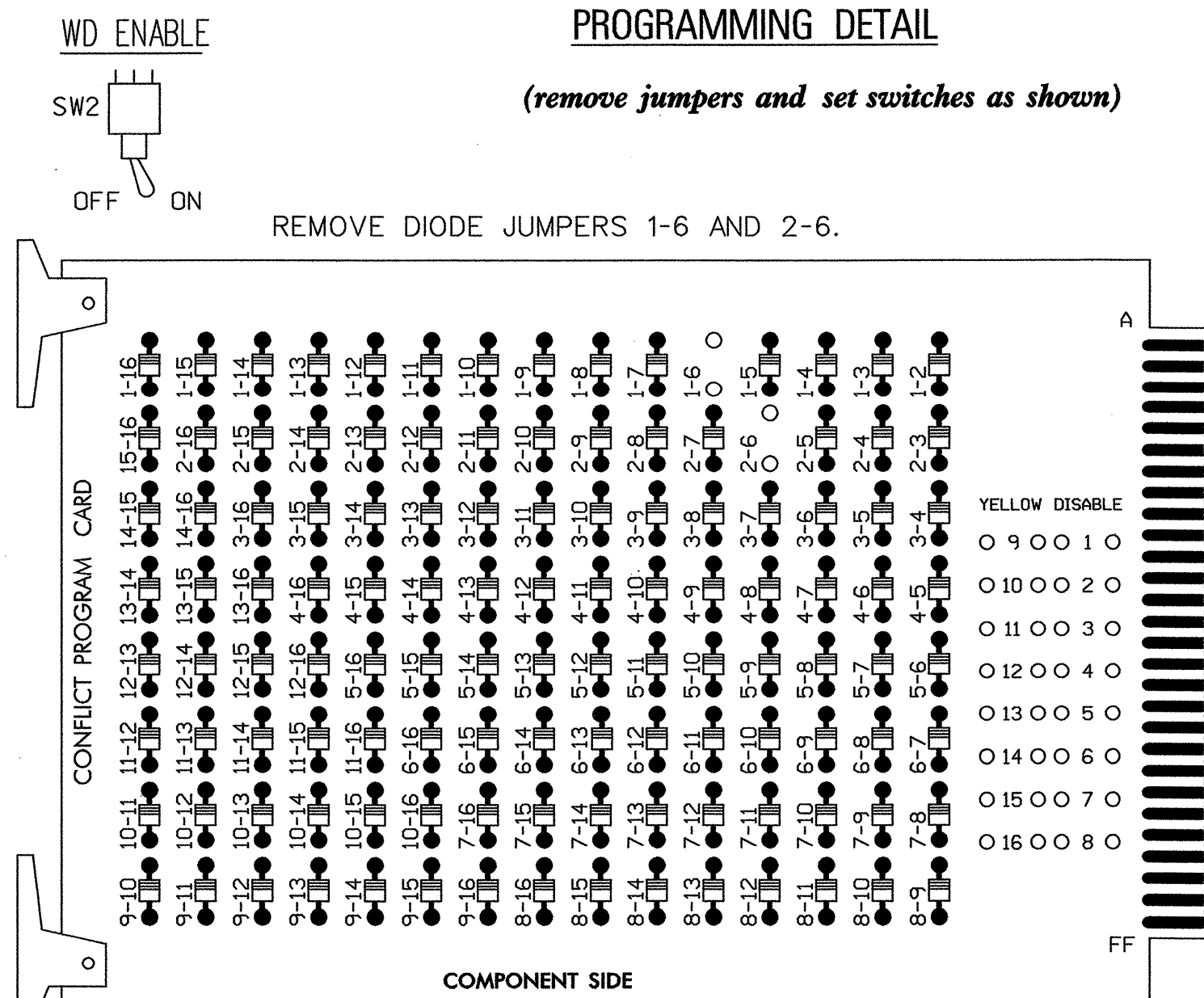


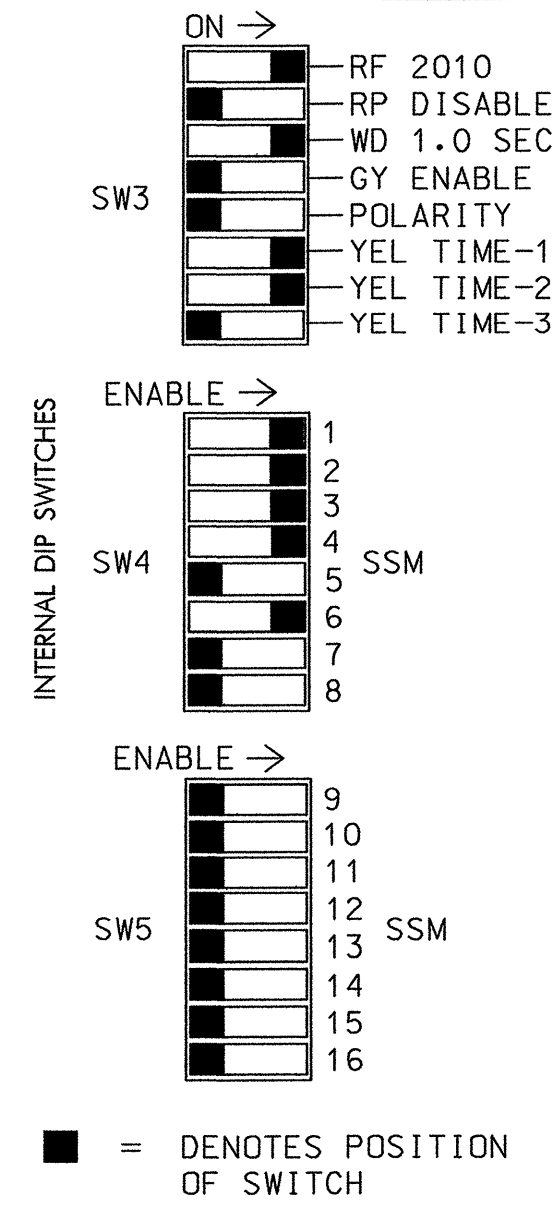
EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



OPTIONS



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)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	∅ 1 1B	∅ 1 1A	∅ 2 2A	∅ 2 2C	SLOT WAVE	∅ 3 3A	∅ 4 4A	SLOT WAVE	SLOT WAVE	SLOT WAVE	SLOT WAVE	SLOT WAVE	SLOT WAVE	FS DC ISOLATOR
FILE "J"	NOT USED	∅ 6 1A	∅ 2 2B	NOT USED	SLOT WAVE	∅ 3 3B	NOT USED	SLOT WAVE	SYS S21	SLOT WAVE	SLOT WAVE	SLOT WAVE	SLOT WAVE	ST DC ISOLATOR
		∅ 6 6A							SYS S22					
		∅ 6 6B												

EX.: 1A, 2A, ETC. = LOOP NO.'S FS = FLASH SENSE ST = STOP TIME

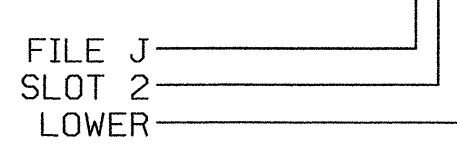
INPUT FILE CONNECTION & PROGRAMMING CHART

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	-	---	10
6A	TB3-5,6	J2U	40	2	6	6	Y	Y	-	---	--
6B	TB3-7,8	J2L	44	6	16	6	Y	Y	-	---	--
* S21	TB7-9,10	J9U	59	21	15	SYS	-	-	-	---	--
* S22	TB7-11,12	J9L	61	23	17	SYS	-	-	-	---	--

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

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

INPUT FILE POSITION LEGEND:



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: 0882
- REMOVE ACCUTIME 2000 (RS-232) GPS UNIT UPON INSTALLATION AND ACTIVATION OF THE 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,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: ABCDEFGHIJKLMNOP
 IF OVERLAPS ARE ACTIVE !
 OR PHASES: 12345678910111213141516
 IF PHASES ARE ON: X
 OMIT PHASES: X
 CALL PHASES: X

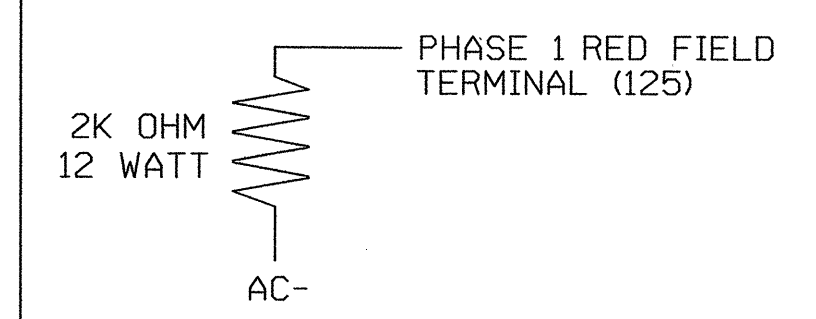
BACKUP PROTECTION PROGRAMMING COMPLETE

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	21,22,23	NU	23	31	32	41	42	NU	NU	61,62	NU	NU	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			117											
GREEN ARROW	127			118	118	103									
⚠															
👤															

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

LOAD RESISTOR INSTALLATION DETAIL



NOTE: THE PURPOSE OF THESE RESISTORS IS TO LOAD THE CHANNEL RED MONITOR INPUTS IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON CHANNELS THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0882T2
 DESIGNED: SEPTEMBER 2003
 SEALED: 12/11/2003
 REVISED: TBD

SIGNAL UPGRADE TEMPORARY DESIGN 2 CONSTRUCTION PHASE II

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ELECTRICAL AND PROGRAMMING DETAILS FOR: SR 1409 (MILITARY CUTOFF ROAD) AT SR 1940 (COVIL FARM ROAD) AND CHURCH NEW HANOVER COUNTY WILMINGTON

Prepared for the Offices of: NORTH CAROLINA PROFESSIONAL ENGINEER JAMES O. DEATON

PLAN DATE: NOVEMBER 2003 REVIEWED BY: J O DEATON
 PREPARED BY: M W YALCH REVIEWED BY:

REVISIONS INIT. DATE

Signature: James O. Deaton 12/16/03
 DATE: 12/16/03
 SIG. INVENTORY NO. 03-0882T2