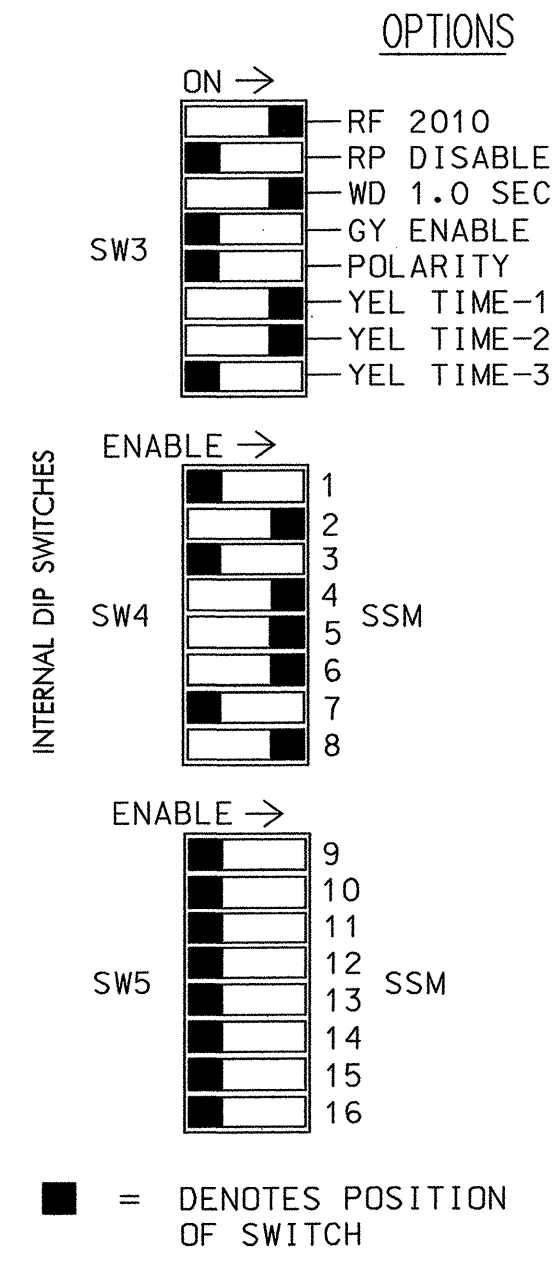
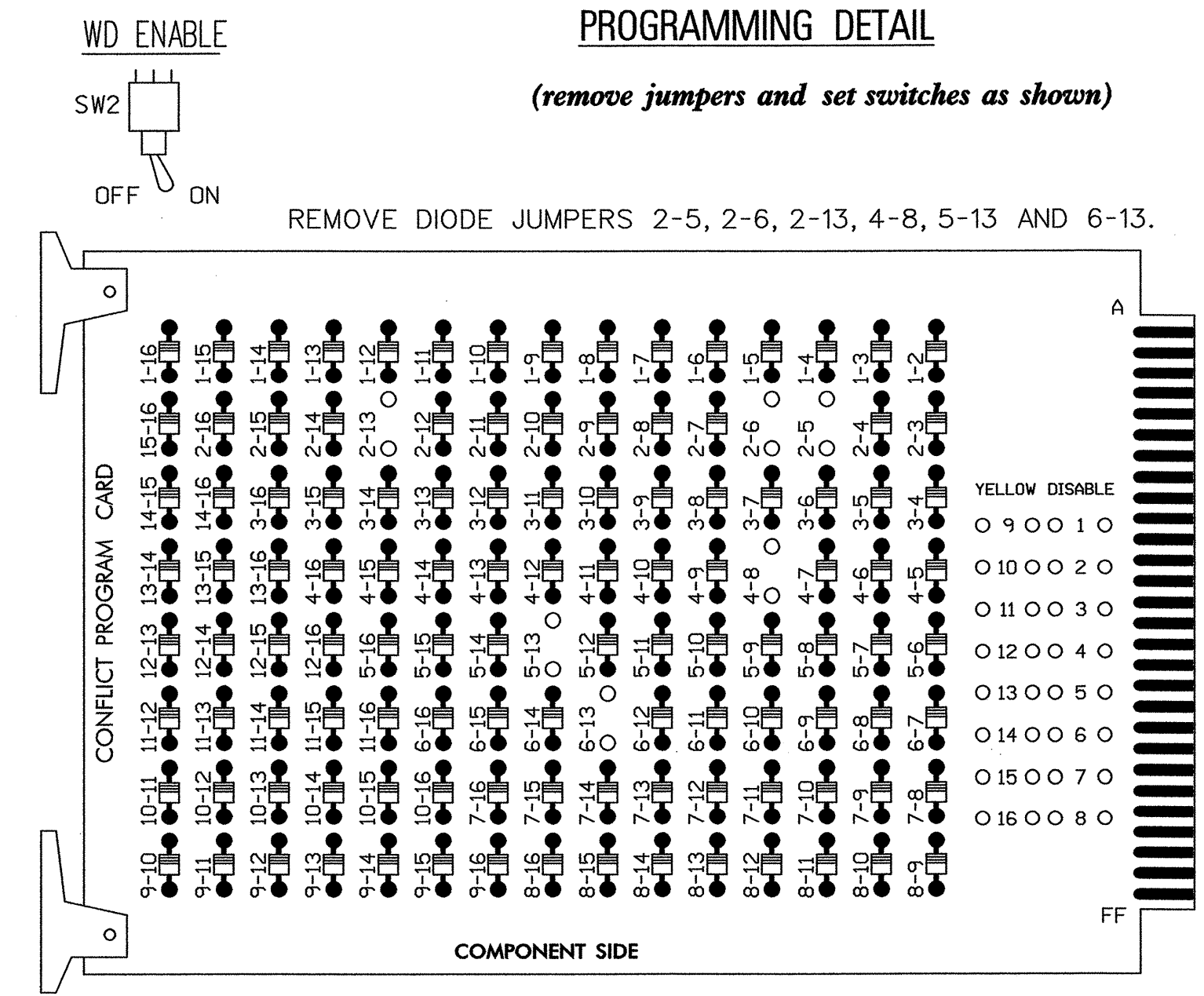


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

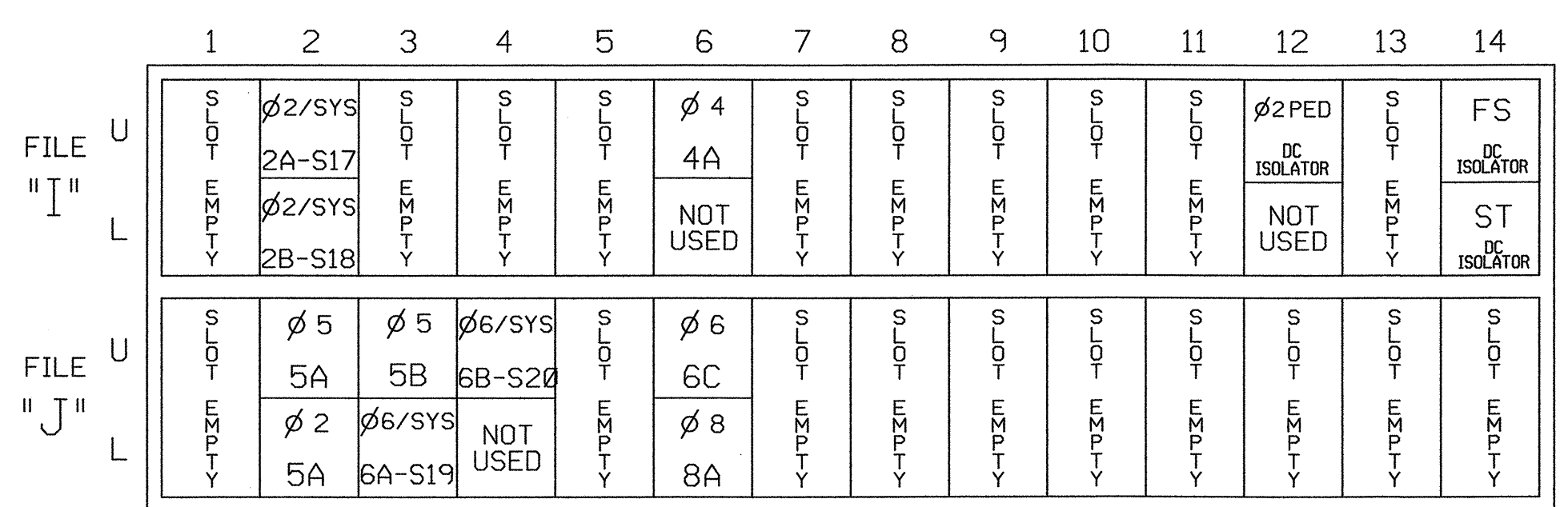
(remove jumpers and set switches as shown)



- 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.

INPUT FILE POSITION LAYOUT

(front view)

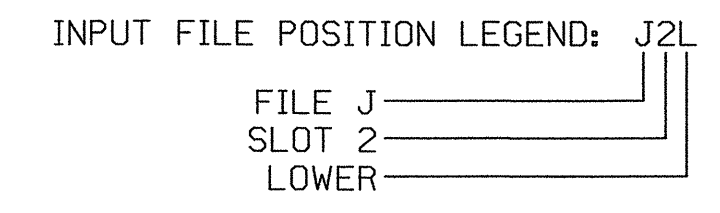


EX.: 1A, 2A, ETC. = LOOP NO.'S FS = FLASH SENSE ST = STOP TIME

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
X 2A-S17	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y	-	---	--
X 2B-S18	TB2-7,8	I2L	43	5	12	2/SYS	Y	Y	-	---	--
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	3
5A	TB3-5,6	J2U	40	2	6	5	Y	Y	-	---	15
	TB3-7,8	J2L	44	6	16	2	Y	Y	Y	---	3
5B	TB3-9,10	J3U	64	26	36	5	Y	Y	-	---	15
X 6A-S19	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y	-	---	--
X 6B-S20	TB5-1,2	J4U	48	10	26	6/SYS	Y	Y	-	---	--
6C	TB5-9,10	J6U	42	4	8	6	Y	Y	Y	---	3
8A	TB5-11,12	J6L	46	8	18	8	Y	Y	-	---	10
PED PUSH BUTTONS P21,P22 TB8-4,6 I12U 67 29 PED 2 2 PED											

1 DENOTES ADD JUMPERS FOR LOOP 5A FROM TB3-5 TO TB3-7, AND FROM TB3-6 TO TB3-8.
 X SYSTEM DETECTOR.



NOTES

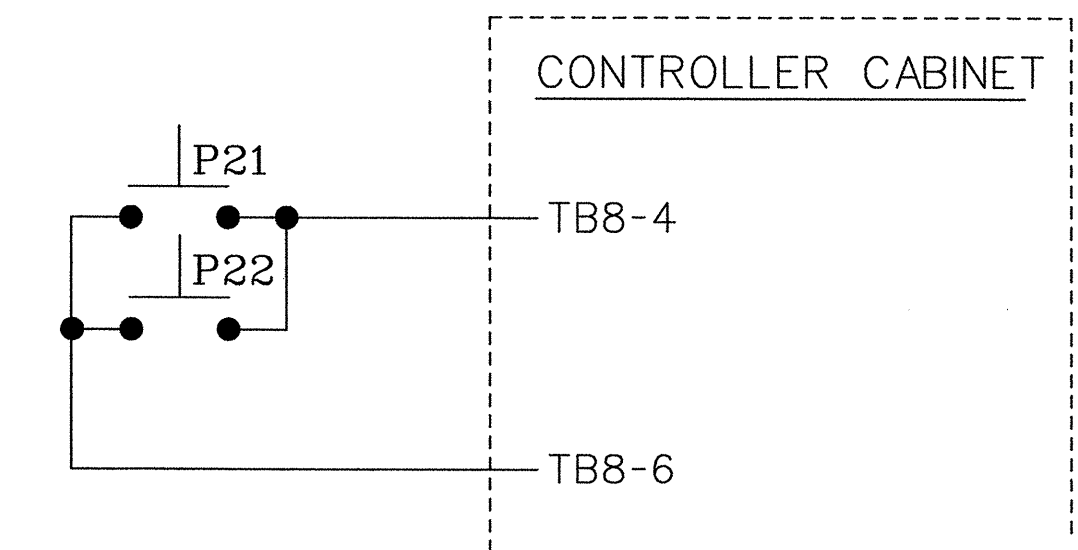
- TO PREVENT "FLASH-CONFLICT" PROBLEMS, INSERT RED FLASH PROGRAM BLOCKS FOR ALL UNUSED VEHICLE LOAD SWITCHES IN THE OUTPUT FILE. THE INSTALLER SHALL VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
- ENSURE THAT RED ENABLE IS ACTIVE AT ALL TIMES DURING NORMAL OPERATION. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED RED MONITOR INPUTS 1,3,7,9,10,11,12,13,14,15 & 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 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
- 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: 0950
- PROGRAM PHASE 2 FOR 'START-UP PED CALLS'.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINETCONTRACTOR SUPPLIED 332
 SOFTWAREECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S2P,S4,S5,S6,S8
 PHASES USED.....2,2PED,4,5,6,8
 OVERLAPS.....NONE

PEDESTRIAN PUSH-BUTTON WIRING DETAIL

(wire push-buttons as shown below)



NOTE: PROGRAM PED HEADS PER MANUFACTURER'S INSTRUCTIONS TO COUNTDOWN THE PED INTERVAL CLEARANCE ONLY.

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.	NU	21,22	P21, P22	NU	41,42	NU	21,42	61,62, 63	NU	NU	81,82	NU
GREEN		130		103				136			109	
YELLOW		129		102				135			108	
RED		128		101		*		134			107	
RED ARROW												
YELLOW ARROW								132				
GREEN ARROW								133				
								115				
								113				

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

BACK-UP PROTECTION PROGRAMMING DETAIL

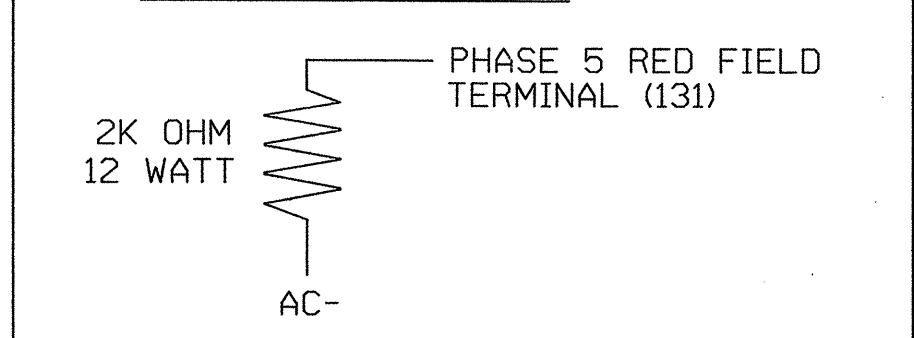
(program controller as shown below)

- FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). 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: ABCDEFGHIJKLMNPO
 IF OVERLAPS ARE ACTIVE
 OR PHASES: 12345678910111213141516
 IF PHASES ARE ON: X
 OMIT PHASES: X
 CALL PHASES: X

BACKUP PROTECTION PROGRAMMING COMPLETE

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: 03-0950
 DESIGNED: SEPTEMBER 2003
 SEALED: 12/11/2003
 REVISED: TBD

NEW INSTALLATION

ELECTRICAL AND PROGRAMMING DETAILS FOR: SR 1409 (MILITARY CUTOFF ROAD) AT SR 1365 (STATION ROAD) AND CP&L 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

SEAL NORTH CAROLINA PROFESSIONAL SEAL 07438 ENGINEER JAMES O. DEATON

Signature: James O. Deaton 12/16/03 DATE

SIG. INVENTORY NO. 03-0950

SEPI ENGINEERING GROUP

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