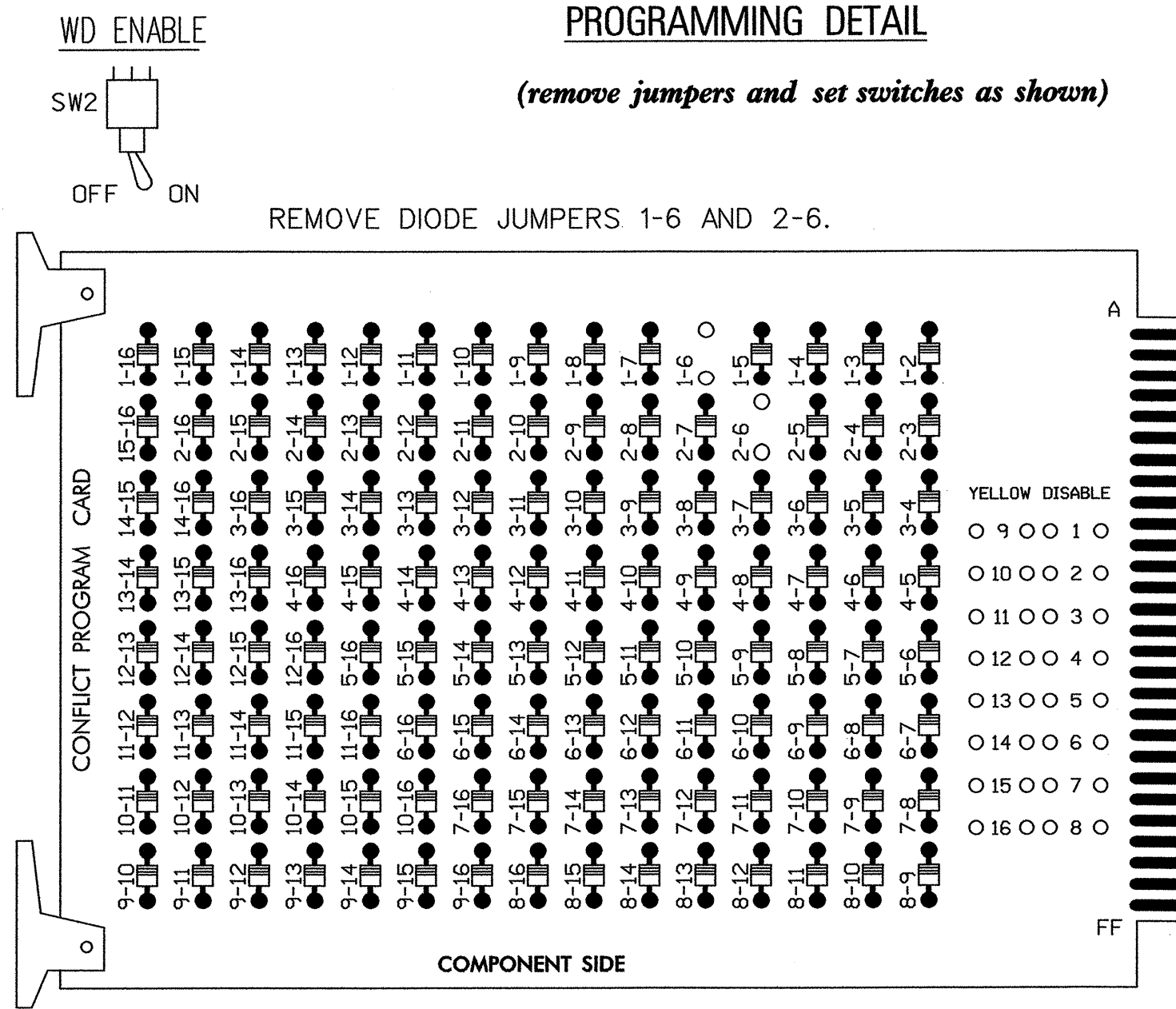


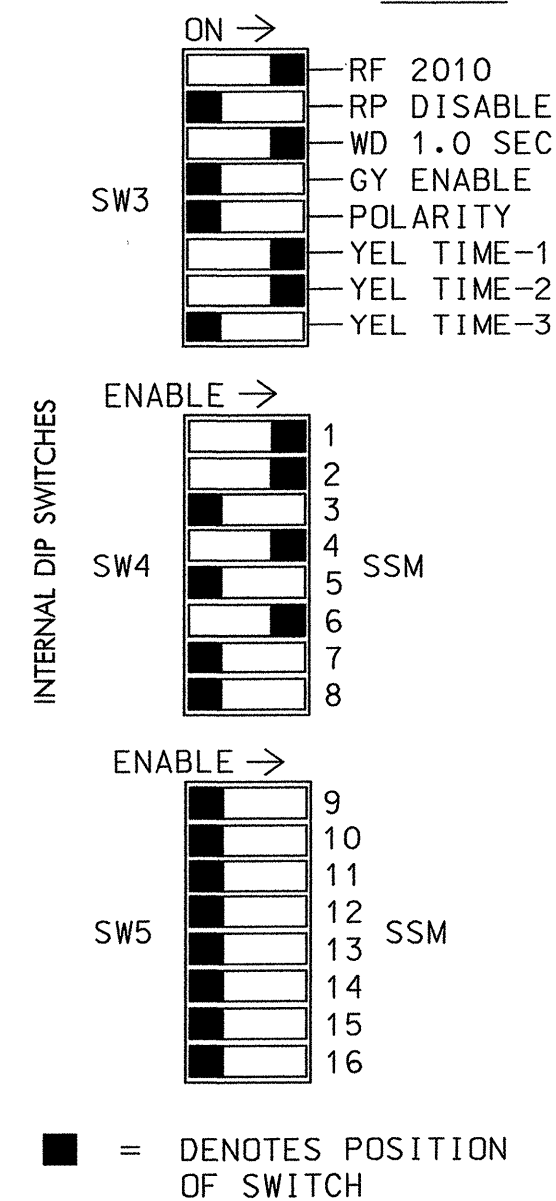
EDI MODEL 2010ECL CONFLICT MONITOR

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.

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 3,5,7,8,9,10,11,12,13,14,15 & 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: 0076
- INSTALL THE ACCUTIME 2000 GPS PER THE MANUFACTURER'S INSTRUCTIONS AND THE CONNECTOR WIRING DETAIL ON PAGE 2. THE GPS UNIT WILL BE REMOVED UPON INSTALLATION AND ACTUATION OF THE CLOSED LOOP SYSTEM.

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.	61	21,22	NU	NU	41,42	NU	NU	61,62	NU	NU	NU	NU
GREEN		130			103			136				
YELLOW		129			102			135				
RED	*	128			101			134				
RED ARROW												
YELLOW ARROW	126											
GREEN ARROW	127											

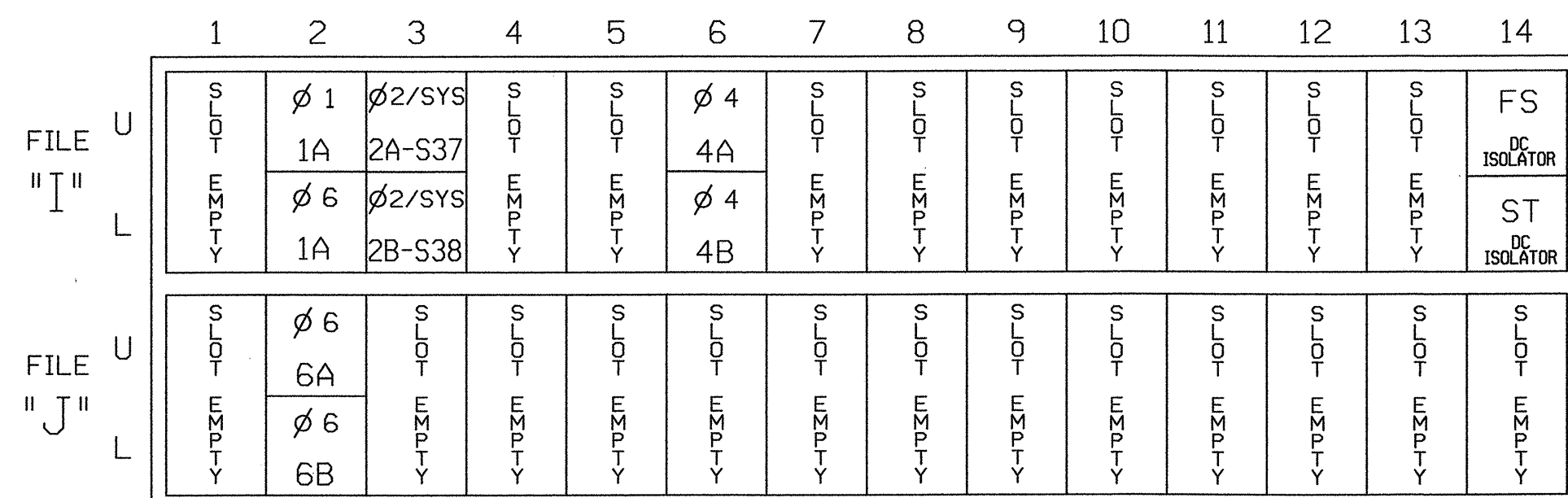
NU = NOT USED
* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

EQUIPMENT INFORMATION

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

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

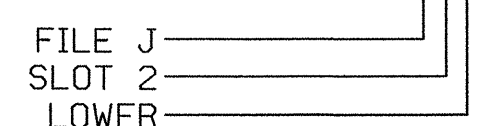
INPUT FILE CONNECTION & PROGRAMMING CHART

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
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/S37	TB2-9,10	I3U	63	25	32	2/SYS	Y	Y	-	---	---
* 2B/S38	TB2-11,12	I3L	76	38	42	2/SYS	Y	Y	-	---	---
4A	TB4-9,10	I6U	41	3	4	4	Y	Y	-	---	3
4B	TB4-11,12	I6L	45	7	14	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	-	---	---

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



BACK-UP PROTECTION PROGRAMMING DETAIL

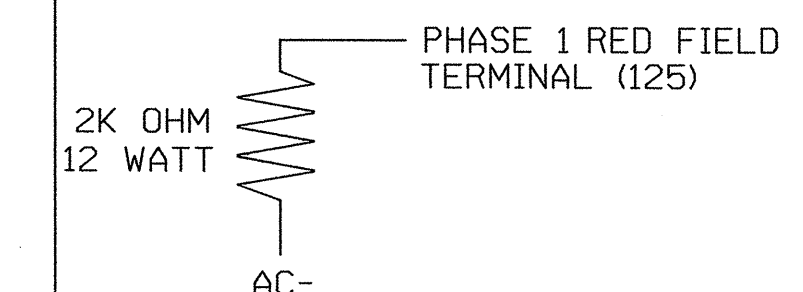
(program controller as shown below)

- 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

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: 03-0076
DESIGNED: OCTOBER 2003
SEALED: 12/11/2003
REVISED: TBD

SIGNAL/UPGRADE PAGE 1 OF 2

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ELECTRICAL AND PROGRAMMING DETAILS FOR: US 17 (MARKET STREET) AT SR 1403 (MIDDLE SOUND LOOP ROAD)

Prepared for the Offices of: **SEPI ENGINEERING GROUP**

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

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

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES O. DEATON SEAL 07438

SIG. INVENTORY NO. 03-0076