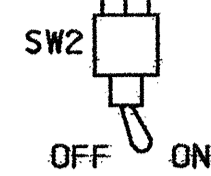


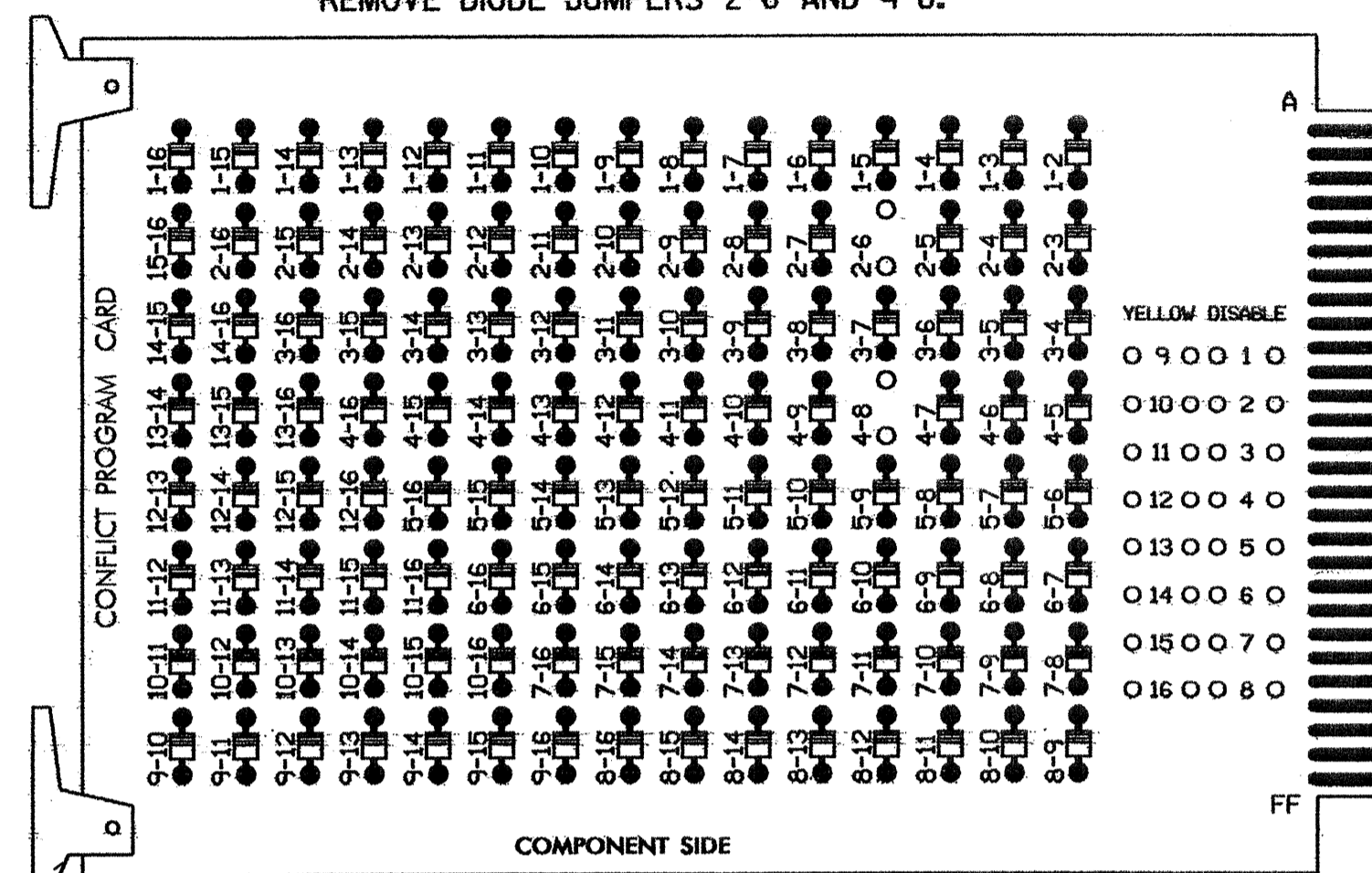
**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**

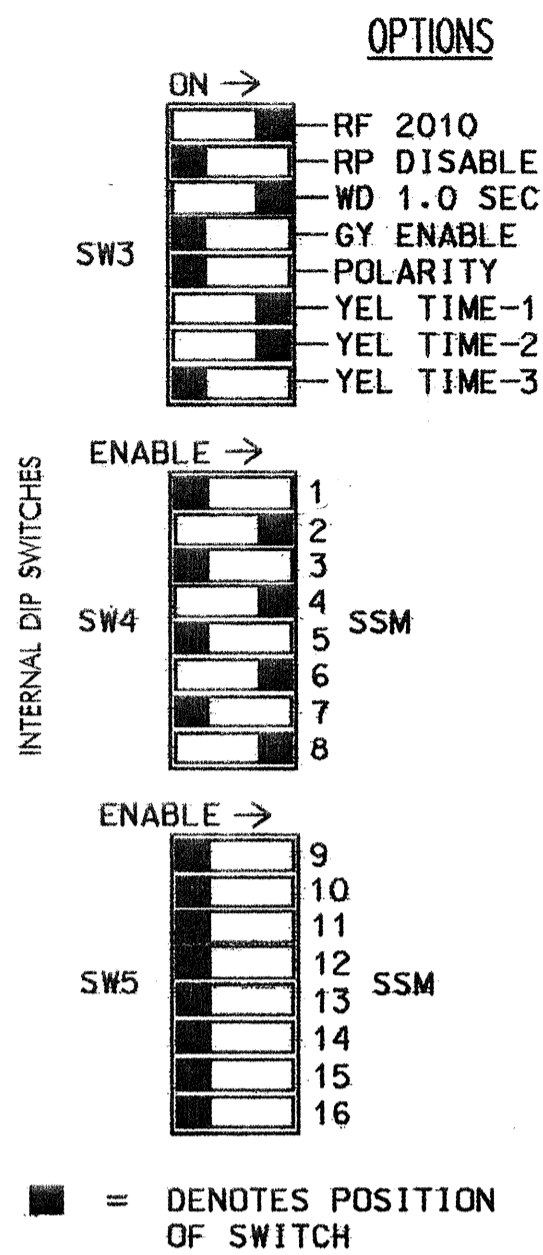
WD ENABLE



(remove jumpers and set switches as shown)



REMOVE JUMPERS 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.

**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 1,3,5, 7,9,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER THE 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.

**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, 23 | NU    | NU | 41, 42 | NU    | NU | 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    |    |            |       |    |        |       |    |            |       |    |        |       |
| GREEN ARROW     |    |            |       |    |        |       |    |            |       |    |        |       |

NU = NOT USED

**EQUIPMENT INFORMATION**

CONTROLLER.....CONTRACTOR SUPPLIED 2070L  
 CABINET .....CONTRACTOR SUPPLIED 332  
 SOFTWARE .....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S2,S4,S6,S8  
 PHASES USED.....2,4,6,8  
 OVERLAPS.....NONE

**INPUT FILE POSITION LAYOUT**

(front view)

| FILE | 1   | 2        | 3        | 4   | 5        | 6        | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  |
|------|-----|----------|----------|-----|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| U    | ∅ 2 | ∅ 2      | ∅ 2      | ∅ 4 | ∅ 4      | ∅ 4      | ∅ 4 | ∅ 4 | ∅ 4 | ∅ 4 | ∅ 4 | ∅ 4 | ∅ 4 | ∅ 4 |
| I    | 2A  | 2C       | NOT USED | 4A  | 4B       | 4C       | 4D  | 4E  | 4F  | 4G  | 4H  | 4I  | 4J  | 4K  |
| L    | 2B  | NOT USED |          | 4B  |          |          |     |     |     |     |     |     |     |     |
| U    | ∅ 6 | ∅ 6      | ∅ 6      | ∅ 8 | ∅ 8      | ∅ 8      | ∅ 8 | ∅ 8 | ∅ 8 | ∅ 8 | ∅ 8 | ∅ 8 | ∅ 8 | ∅ 8 |
| I    | 6A  | 6C       | NOT USED | 8A  | 8C       | NOT USED | 8B  | 8D  | 8E  | 8F  | 8G  | 8H  | 8I  | 8J  |
| L    | 6B  | NOT USED |          | 8B  | NOT USED |          |     |     |     |     |     |     |     |     |

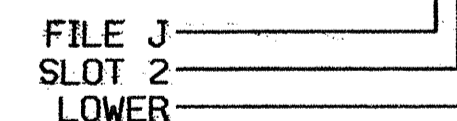
EX.: 1A, 2A, ETC. = LOOP NO.'S

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 |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 2A       | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
| 2B       | TB2-7,8       | I2L             | 43      | 5                    | 12           | 2          | Y    | Y      |                 |              |            |
| 2C       | TB2-9,10      | I3U             | 63      | 25                   | 32           | 2          | Y    | Y      | Y               |              | 3          |
| 4A       | TB4-9,10      | I6U             | 41      | 3                    | 4            | 4          | Y    | Y      |                 |              |            |
| 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      |                 |              |            |
| 6C       | TB3-9,10      | J3U             | 64      | 26                   | 36           | 6          | Y    | Y      | Y               |              | 3          |
| 8A       | TB5-9,10      | J6U             | 42      | 4                    | 8            | 8          | Y    | Y      |                 |              |            |
| 8B       | TB5-11,12     | J6L             | 46      | 8                    | 18           | 8          | Y    | Y      |                 |              |            |
| 8C       | TB7-1,2       | J7U             | 66      | 28                   | 38           | 8          | Y    | Y      |                 |              | 15         |

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-1292  
 DESIGNED: JUNE 2004  
 SEALED: 8/2/04  
 REVISED:

**SIGNAL UPGRADE- FINAL DESIGN**

ELECTRICAL AND PROGRAMMING DETAILS FOR:

**NC 109 AT SR 1756 (W. LEXINGTON AVE.)**

Prepared in the Office of:

122 N. McDowell St., Raleigh, NC 27603

DIVISION 9: DAVIDSON COUNTY THOMASVILLE

PLAN DATE: JULY 2004 REVIEWED BY: *R. Haskins*

PREPARED BY: WILLIAM HAIRSTON REVIEWED BY:

REVISIONS: \_\_\_\_\_ INIT. DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022013 ENGINEER GEORGE C. BROWN

*George C. Brown* SIGNATURE DATE

SIG. INVENTORY NO. 09-1292

05-AUG-2004 11:02  
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