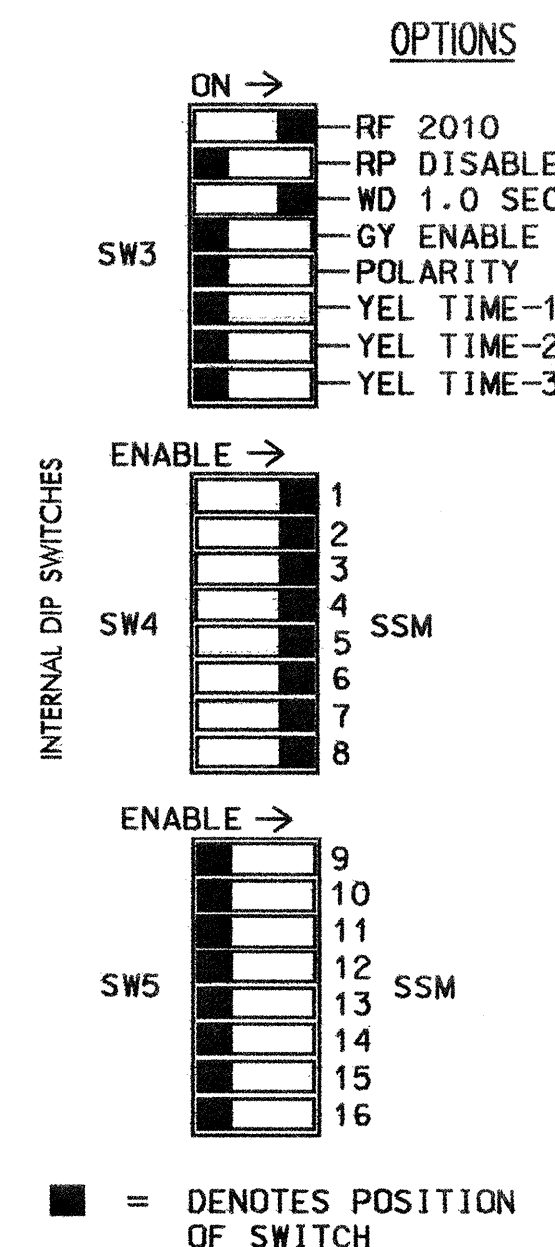
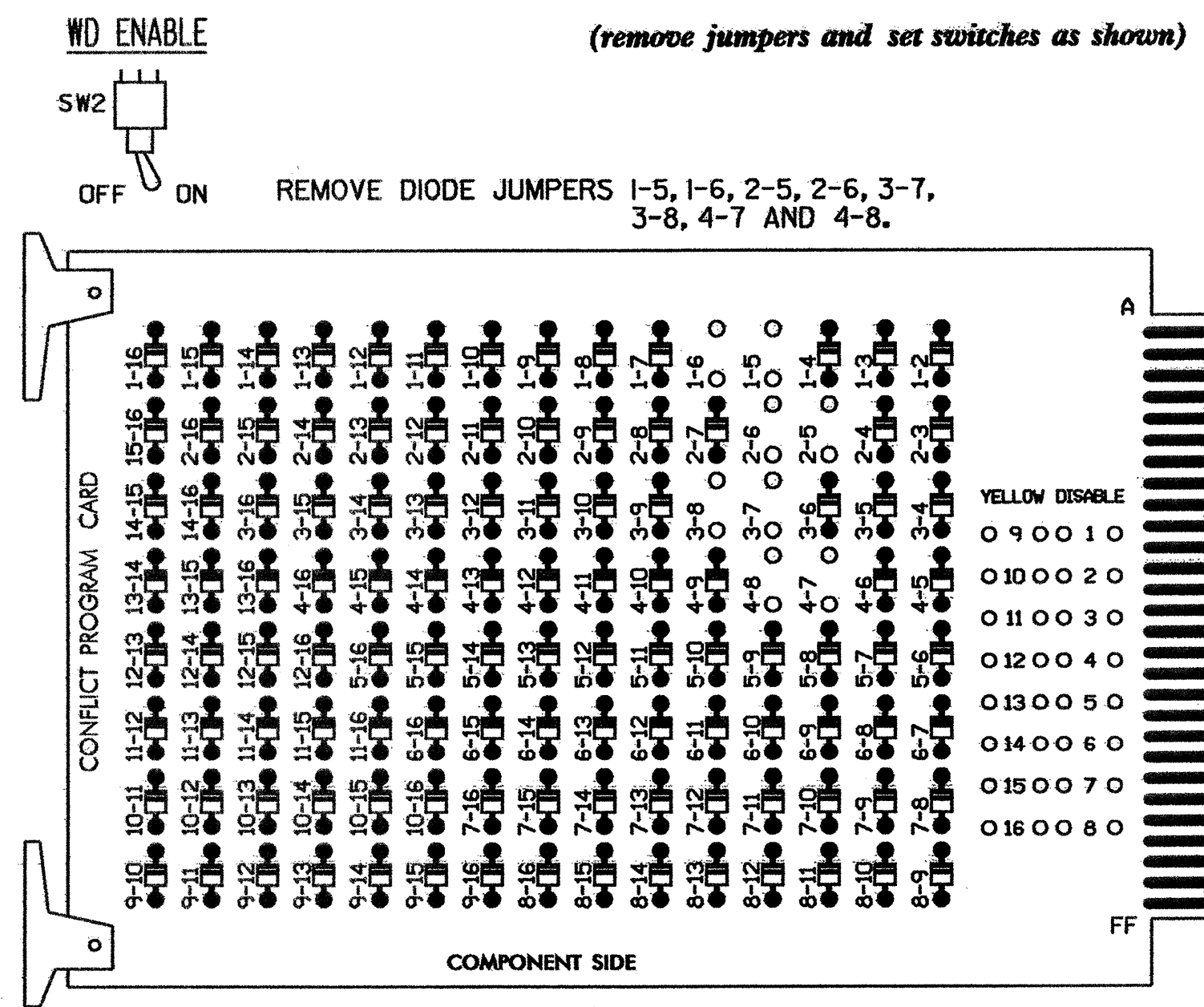


**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



■ = DENOTES POSITION OF SWITCH

**NOTES**

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, INSERT RED FLASH PROGRAM BLOCKS FOR ALL UNUSED VEHICLE LOAD SWITCHES IN THE OUTPUT FILE. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. 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: 9,10, 11,12,13,14,15 AND 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
3. PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT WITHIN THE CONTROLLER PROGRAMMING.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VOLUME DENSITY OPERATION.
7. THIS SIGNAL IS WITHIN THE CITY OF DURHAM SIGNAL 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.	11	21,22	NU	22	31	41,42	NU	42	51,52	61,62	NU	71	81,82	NU
GREEN		130			103				136		109			
YELLOW		129			102				135		108			
RED		128			101				134		107			
RED ARROW	125			116				131		122				
YELLOW ARROW	126			117	117		132	132		123				
GREEN ARROW	127			118	118		133	133		124				

NU = NOT USED

**EQUIPMENT INFORMATION**

\*CONTROLLER.....McCain TRAFFIC TYPE 170E  
 \*CABINET .....McCain TRAFFIC MODEL 332  
 \*SOFTWARE .....BI TRANS 233NC2  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8  
 PHASES USED.....1,2,3,4,5,6,7,8  
 OVERLAPS.....NONE

EXISTING TO REMAIN IN USE\*

**INPUT FILE POSITION LAYOUT**

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I" U	∅ 1	∅ 2	S ∅ 1	S ∅ 1	∅ 3	∅ 4	∅ 4	S ∅ 1	S ∅ 1	S ∅ 1	S ∅ 1	S ∅ 1	S ∅ 1	FS
L	1A	2A	Y ∅ 1	Y ∅ 1	3A	4A,4B	4C	Y ∅ 1	Y ∅ 1	Y ∅ 1	Y ∅ 1	Y ∅ 1	Y ∅ 1	DC ISOLATOR
FILE "J" U	NOT USED	∅ 2	∅ 5	S ∅ 1	∅ 7	∅ 8	∅ 8	∅ 8	S ∅ 1	S ∅ 1	S ∅ 1	S ∅ 1	S ∅ 1	ST
L	NOT USED	2B	5B	Y ∅ 1	NOT USED	8A,8B	8C	8E	Y ∅ 1	Y ∅ 1	Y ∅ 1	Y ∅ 1	Y ∅ 1	DC ISOLATOR

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

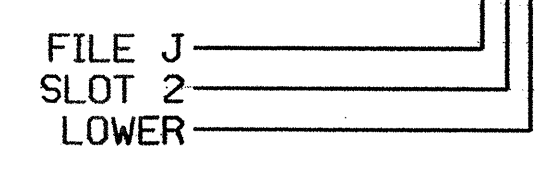
FS = FLASH SENSE  
 ST = STOP TIME

**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
1A	TB2-1,2	I1U	1	56	5 7	1
2A	TB2-5,6	I2U	2	39	4 5 7	2
2B	TB2-7,8	I2L	3	43	4 5 7	2
3A	TB4-5,6	I5U	4	58	5 7	3
4A,4B	TB4-9,10	I6U	5	41	5	4
4C	TB6-1,2	I7U	6	65	5 7	4
4D	TB6-3,4	I7L	7	78	5 7	4
5A	TB3-1,2	J1U	8	55	5 7	5
6A	TB3-5,6	J2U	9	40	4 5 7	6
6B	TB3-7,8	J2L	10	44	4 5 7	6
5B	TB3-9,10	J3U	11	64	5 7	5
5C	TB3-11,12	J3L	12	77	5 7	5
7A	TB5-5,6	J5U	13	57	5 7	7
8A,8B	TB5-9,10	J6U	14	42	5	8
8C	TB7-1,2	J7U	15	66	5 7	8
8D	TB7-3,4	J7L	16	79	5 7	8
8E	TB7-5,6	J8U	17	50	5 7	8

NOTE: PROGRAM DETECTOR DELAY AND CARRYOVER TIMES AS SPECIFIED ON SIGNAL DESIGN PLANS.

**INPUT FILE POSITION LEGEND: J2L**



**DETECTOR ATTRIBUTES LEGEND:**

- 1-FULL TIME DELAY
- 2-PED CALL
- 3-RESERVED
- 4-COUNTING
- 5-EXTENSION
- 6-TYPE 3
- 7-CALLING
- 8-ALTERNATE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0227  
 DESIGNED: FEB. 2005  
 SEALED: 3/3/05  
 REVISED: N/A

TYPE 170 CONTROLLER & 332 CABINET

**SIGNAL UPGRADE**

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:  
  
 122 N. McDowell St., Raleigh, NC 27603

**SR 1121 (CORNWALLIS ROAD) at SR 2028 (ALEXANDER DRIVE)**

DIVISION 05 DURHAM COUNTY RTP

PLAN DATE: MARCH 2005 REVIEWED BY: T. J. JONES  
 PREPARED BY: F. E. RUSS REVIEWED BY: [Signature]

REVISIONS: [Table with columns for REVISIONS, INIT., DATE]

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022013 GEORGE C. BROWN  
 [Signature] DATE: 3/29/05  
 SIG. INVENTORY NO. 05-0227