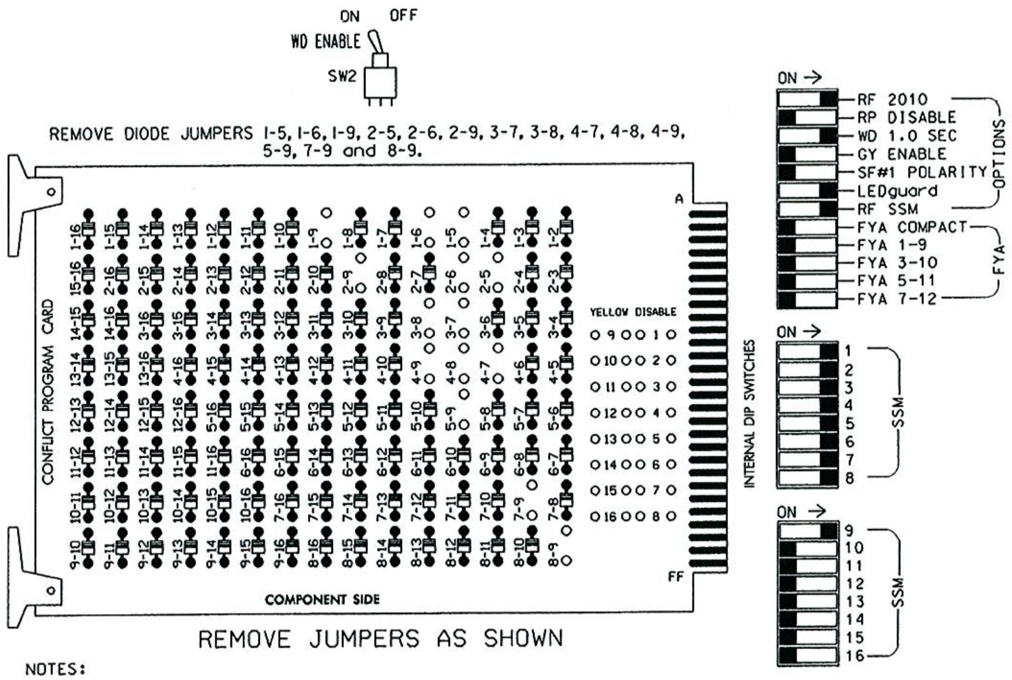
PROJECT REFERENCE NO.	SHEET NO.
U-5017A	Sig-43

EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 2-5, 2-6, 2-9, 3-7, 3-8, 4-7, 4-8, 4-9, 5-9, 7-9 and 8-9.

REMOVE JUMPERS AS SHOWN

■ = DENOTES POSITION OF SWITCH

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Make sure jumpers SEL2-SEL5 are present on the monitor board.

NOTES

1. 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.
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 10, 11, 12, 13, 14, 15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
3. Program phases 2 and 6, on the controller unit, for Start Up In Green.
4. Enable Simultaneous Gap-Out, on the controller unit, for all phases.
5. The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

```
CONTROLLER.............CONTRACTOR SUPPLIED 2070L
CABINET ...............CONTRACTOR SUPPLIED 332
SOFTWARE ..............ECONOLITE OASIS
CABINET MOUNT..........BASE
OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9
PHASES USED............1,2,3,4,5,6,7,8
OVERLAP A..............4+5
OVERLAP B..............NONE
OVERLAP C..............NONE
OVERLAP D..............NONE
```

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1		S2	S2P	S3		S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1		2	2 PED	3		4	4 PED	5	6	6 PED	7	8	8 PED	** OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	~~82~~	21,22	NU	31	22	41,42	NU	51,52	61,62	NU	71,72	81,82 ✓	NU	43,44	NU	NU	NU	NU	NU
RED			128				101			134			107							
YELLOW			129				102			135			108							
GREEN			130				103			136			109							
RED ARROW	125				116				131			122			A121					
YELLOW ARROW	126	~~126~~			117	117			132			123			A122					
GREEN ARROW	127	~~127~~			118	118			133			124			A123					
✋																				
🚶																				

NU = Not Used

** Rewire OLA to flash on flash unit #2, circuit #2.

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press '8' (Overlaps), then '1' (Vehicle Overlap Settings).

```
 PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
 PHASE:             |12345678910111213141516
VEH OVL PARENTS:|    XX
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED   _ YELLOW   _ GREEN
FLASH COLORS:  _ RED   _ YELLOW   _ GREEN
-----------------------------------------
SELECT VEHICLE OVERLAP OPTIONS:    (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...N
GREEN EXTENSION (0-255 SEC).........0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)..0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)....0
```

OVERLAP PROGRAMMING COMPLETE

This plan supercedes the plan
signed and sealed by
John T. Rowe, Jr., NCDOT-S&G
on 3-17-08.

SIGNAL SYSTEM DATA:	
CONTROLLER ASSET NO.	0395

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	Ø 1 1A	~~Ø 1~~ SYS S6 ~~1B~~	Ø 2 2A	SLOT EMPTY	Ø 3 3A	Ø 4 4A	SLOT EMPTY	SLOT EMPTY	SYS S1	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS DC ISOLATOR
	L	NOT USED	SYS ~~NOT USED~~ S2	Ø 2 2B		NOT USED	SYS NOT USED S4			SYS S~~2~~3					ST DC ISOLATOR
FILE "J"	U	Ø 5 5A	Ø 5 5C	Ø 6 6A	SLOT EMPTY	Ø 7 7A	Ø 8 8A	SLOT EMPTY	SLOT EMPTY	~~SLOT~~ SYS S5	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L	Ø 5 5B	Ø 5 5D	Ø 6 6B		Ø 7 7B	Ø 8 ~~NOT USED~~ 8B			~~EMPTY~~ SYS S7					

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	TB2-1,2	I1U	56	18	1	1	Y	Y			
~~1B~~ S6	TB2-5,6	I2U	39	1	2	~~1~~ SYS	~~Y~~	~~Y~~			~~15~~
2A	TB2-9,10	I3U	63	25	32	2	Y	Y		~~2~~	
2B	TB2-11,12	I3L	76	38	42	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB3-3,4	J1L	55	17	5	5	Y	Y			
5C	TB3-5,6	J2U	40	2	6	5	Y	Y			15
5D	TB3-7,8	J2L	44	6	16	5	Y	Y			15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y		~~2~~	
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
7A	TB5-5,6	J5U	57	19	7	7	Y	Y			
7B	TB5-7,8	J5L	57	19	7	7	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			
• S1	TB6-9,10	I9U	60	22	11	SYS					
• S~~2~~3	TB6-11,12	I9L	62	24	13	SYS					
S2	TB2-7,8	I2L	43	5	12	SYS					
S4	TB4-11,12	I6L	45	7	14	SYS					
S5	TB7-9,10	J9U	59	21	15	SYS					
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			
S7	TB7-11,12	J9L	61	23	17	SYS					

• System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
FINAL DRAWING Date: 10/17/08
RGM
Traffic Engineering Branch

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0395
DESIGNED: June 2008
SEALED: 10-02-2008
REVISED:

Signal Upgrade

Prepared in the offices of:

RAMEY KEMP & ASSOCIATES, INC.
Transportation Engineers
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ELECTRICAL AND PROGRAMMING DETAILS FOR:

750 Greenfield Pkwy, Garner, NC 27529

NC 132 (S. College Road)
at
Waltmoor Road/
17th Street Extension

Division 3	New Hanover County	Wilmington
PLAN DATE: June 2008	REVIEWED BY: D.J. Darity	
PREPARED BY: H.M. Surti	RKA PROJ. NO.: 07237 (040)	

REVISIONS	INIT.	DATE

SEAL
SEAL 19713
DONALD J. DARITY
10-02-2008

SIGNATURE	DATE

SIG. INVENTORY NO. 03-0395

$$$$$SYSTIME$$$$$
$$$$DGN$$$$
$$$$USERNAME$$$$

PoR: SIDESTREET LANE MODIFICATION (PROPOSED) / PoR: FOR FUTURE LOOPS