EDI MODEL 2018ECL-NC CONFLICT MONITOR
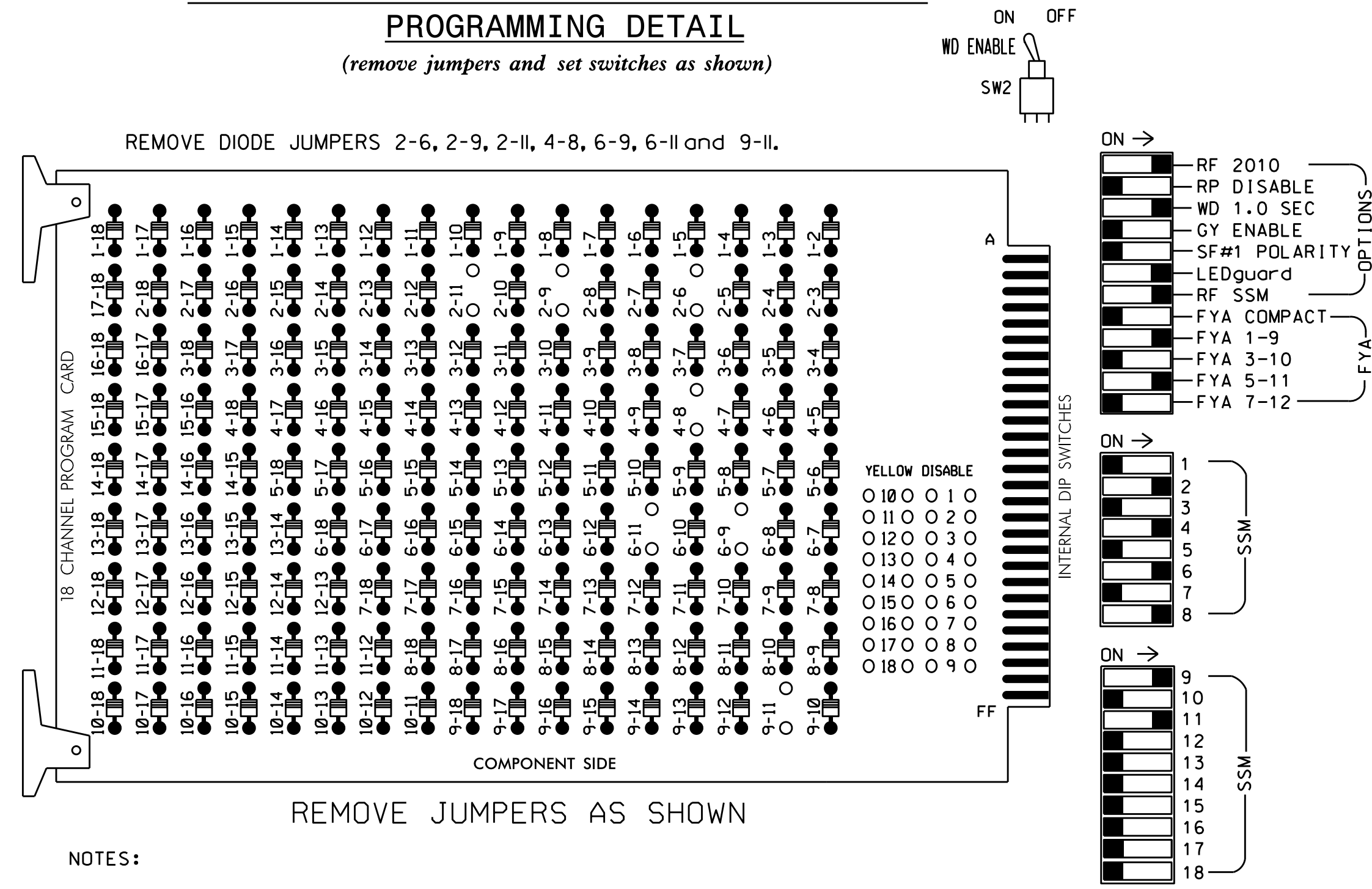### PROGRAMMING DETAIL
(remove jumpers and set switches as shown)

ON OFF
WD ENABLE
SW2

REMOVE DIODE JUMPERS 2-6, 2-9, 2-11, 4-8, 6-9, 6-11 and 9-11.

18 CHANNEL PROGRAM CARD

COMPONENT SIDE

REMOVE JUMPERS AS SHOWN

ON →
- RF 2010
- RP DISABLE
- WD 1.0 SEC
- GY ENABLE
- SF#1 POLARITY
- LEDguard
- RF SSM

OPTIONS

- FYA COMPACT
- FYA 1-9
- FYA 3-10
- FYA 5-11
- FYA 7-12

FYA

INTERNAL DIP SWITCHES

YELLOW DISABLE
O 18 O O 1 O
O 11 O O 2 O
O 12 O O 3 O
O 13 O O 4 O
O 14 O O 5 O
O 15 O O 6 O
O 16 O O 7 O
O 17 O O 8 O
O 18 O O 9 O

A

FF

ON →
1
2
3
4
5
6
7
8
} SSM

ON →
9
10
11
12
13
14
15
16
17
18
} SSM

■ = 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. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.

3. Ensure that Red Enable is active at all times during normal operation.

4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

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. Program phases 4 and 8 for Dual Entry.

3. Enable Simultaneous Gap-Out for all phases.

4. Program phases 2 and 6 for Gap Reduction.

5. Program phases 2 and 6 for Start Up In Green.

6. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.

EQUIPMENT INFORMATION

CONTROLLER..............2070
CABINET.................332 W/ AUX
SOFTWARE................ECONOLITE OASIS
CABINET MOUNT...........BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED......S2,S5,S8,S11,AUX S1,AUX S4
PHASES USED.............2,4,6,8
OVERLAP "A".............2
OVERLAP "B".............NOT USED
OVERLAP "C".............6
OVERLAP "D".............NOT USED

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
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.	NU	22,23	NU	NU	41,42,43	NU	NU	62,63	NU	NU	81,82,83	NU	61★	NU	NU	21★	NU	NU
RED		128			101			134			107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121			A114		
YELLOW ARROW													A122			A115		
FLASHING YELLOW ARROW													A123			A116		
GREEN ARROW																		

NU = Not Used

★ See pictorial of head wiring in detail below.

FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)

OLA RED (A121)
OLA YELLOW (A122)
OLA GREEN (A123)

61

OLC RED (A114)
OLC YELLOW (A115)
OLC GREEN (A116)

21

INPUT FILE POSITION LAYOUT
(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14

FILE "I" U/L

SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | FS DC ISOLATOR / ST / DC ISOLATOR

FILE "J" U/L

SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY

VIDEO DETECTION

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

FS = FLASH SENSE
ST = STOP TIME

SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

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:          |1234567891011213141516
VEH OVL PARENTS:| X
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED  _ YELLOW _ GREEN
FLASH COLORS:  _ RED  _ YELLOW X GREEN    ← NOTICE GREEN FLASH
SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
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
```
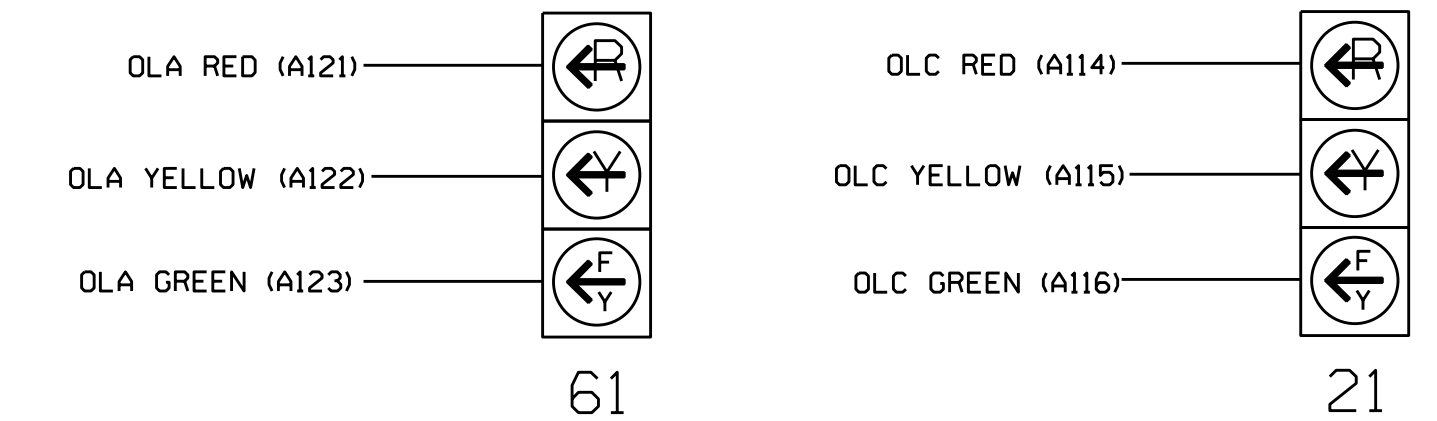
PRESS '+' TWICE

```
PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
PHASE:          |1234567891011213141516
VEH OVL PARENTS:|     X
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED  _ YELLOW _ GREEN
FLASH COLORS:  _ RED  _ YELLOW X GREEN    ← NOTICE GREEN FLASH
SELECT VEHICLE OVERLAP OPTIONS:   (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...Y
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 ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-1188T3
DESIGNED: August 2016
SEALED: 10/14/2016
REVISED:

Electrical Detail - Temp 3

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

Transportation Mobility and Safety Division
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

NC 16
at
SR 1804 (Bethany Church Road)
/ SR 1884 (Smyre Farm Road)

Division 12   Catawba County   Conover
PLAN DATE: October 2016   REVIEWED BY: T. Joyce
PREPARED BY: C. Strickland   REVIEWED BY:

REVISIONS   INIT.   DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
030530
ZACHARY M. LITTLE
ENGINEER

DocuSigned by:
Zachary M. Little 10/19/2016
DC21EFD94F5341F   DATE

SIG. INVENTORY NO. 12-1188T3

17-OCT-2016 13:50
S:*ITS\SDU\ITS_Signals\Working\groups\Sig Mon\Strick land\md*21188_sm_ele_xxx.dgn
cestrickland