▽ 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, 6-9, 6-11 AND 9-11.

18 CHANNEL PROGRAM CARD

COMPONENT SIDE

YELLOW DISABLE
O10 O 1 O
O11 O 2 O
O12 O 3 O
O13 O 4 O
O14 O 5 O
O15 O 6 O
O16 O 7 O
O17 O 8 O
O18 O 9 O

ON →
- RF 2010
- RP DISABLE
- WD 1.0 SEC
- GY ENABLE — OPTIONS
- SF#1 POLARITY
- LEDguard
- RF SSM
- FYA COMPACT
- FYA 1-9
- FYA 3-10 — FYA
- FYA 5-11
- FYA 7-12

A
FF
INTERNAL DIP SWITCHES

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

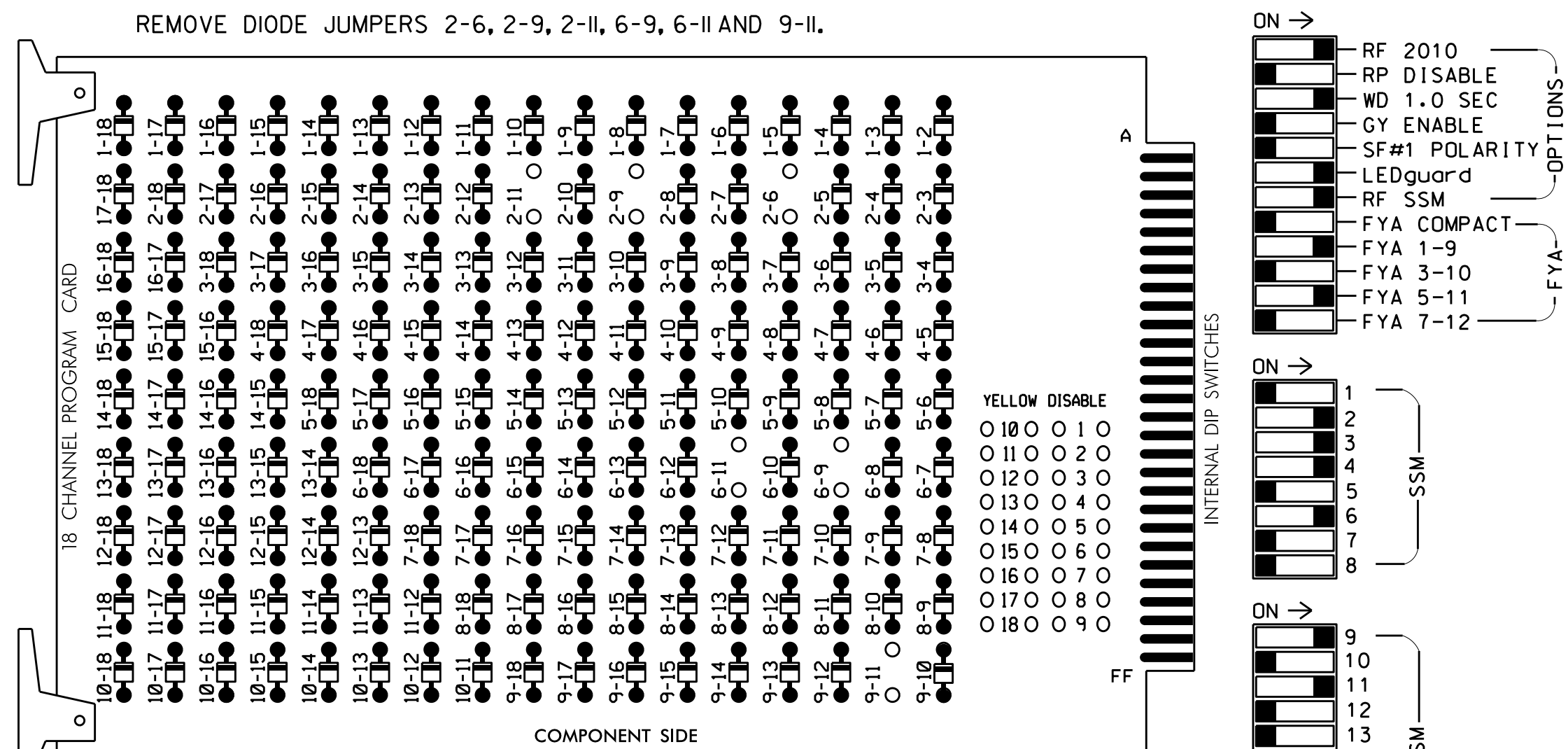### REMOVE JUMPERS AS SHOWN

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. Enable Simultaneous Gap-Out for all Phases.

3. Program phases 2 and 6 for Gap Reduction.

4. Program phases 2 and 6 for Startup In Green.

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

6. If this signal will be managed by ATMS software, enable controller and detector logging for all enabled detectors.

▽ 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,S4,S5,S8,AUX S1, AUX S4
PHASES USED............2,3,4,6
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	31	32,33	41	42	NU	NU	62,63	NU	NU	61 ★	NU	NU	21 ★	NU	NU
RED		128	116	116	101	101		134										
YELLOW		129	117	117	102	102		135										
GREEN		130	118	118	103	103		136										
RED ARROW													A121			A114		
YELLOW ARROW													A122			A115		
FLASHING YELLOW ARROW													A123			A116		
GREEN ARROW				118		103												

NU = Not Used

★ See pictorial of head wiring in detail below.

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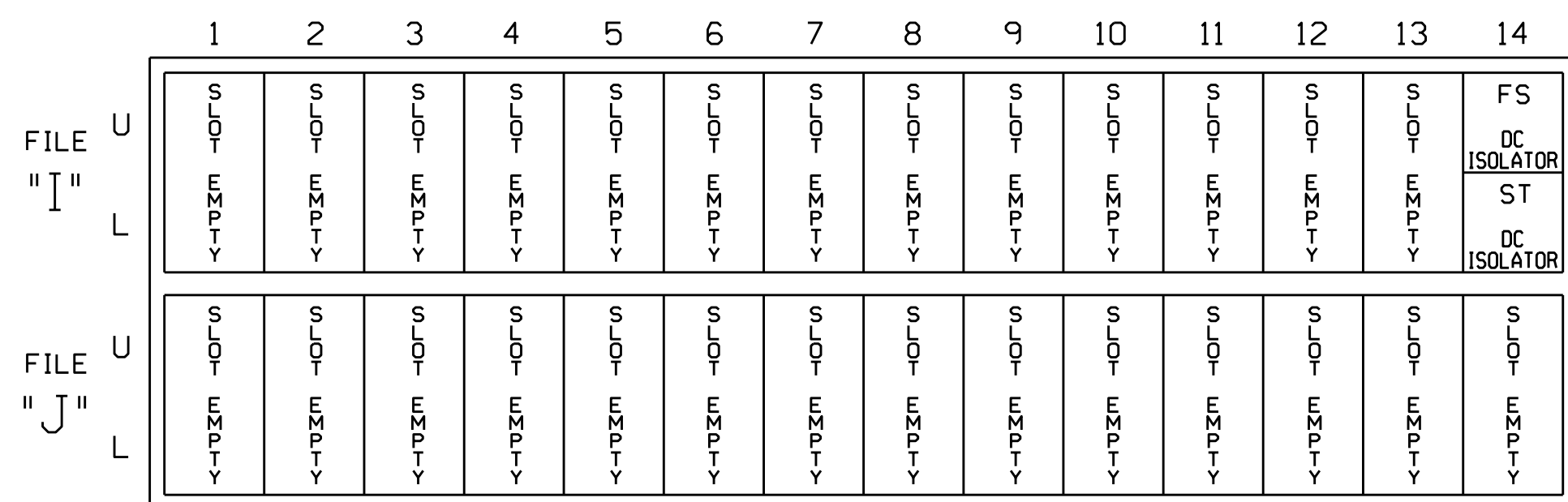
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE POSITION LEGEND: J2L
```
FILE J —————
SLOT 2 —————
LOWER —————
```

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).
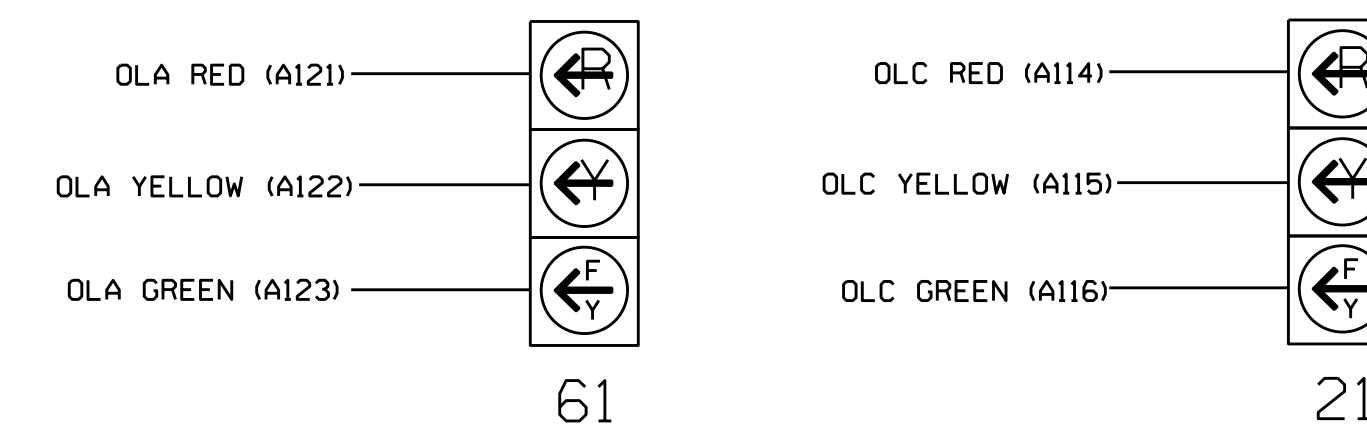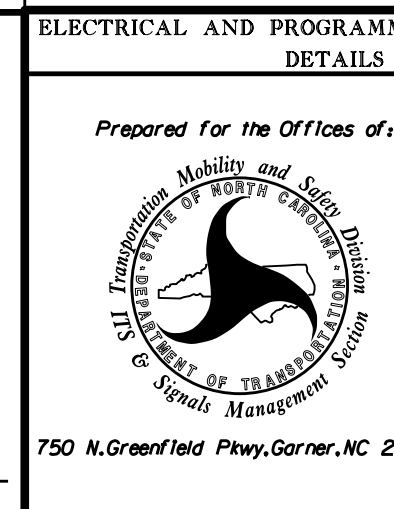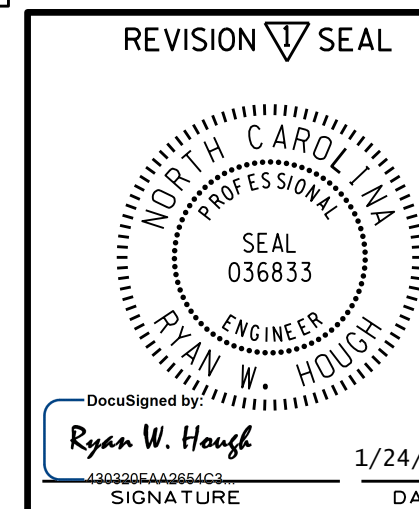
```
PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
PHASE:            123456789101112131415 16
VEH OVL PARENTS:| X
VEH OVL NOT VEH:|
VEH OVL NOT PED:|
VEH OVL GRN EXT:|
STARTUP COLOR: _ RED  _ YELLOW  _ GREEN
FLASH COLORS:  _ RED  _ YELLOW  X GREEN          ← NOTICE GREEN FLASH

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:            123456789101112131415 16
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

FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)

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

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

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THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1423T1
DESIGNED: January 2018
SEALED: 5-25-18
▽ REVISED: 1-24-20

Temporary Design 1 (TMP Phase I)
Electrical Detail

REVISION ▽ SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
036833
ENGINEER
RYAN W. HOUGH

Ryan W. Hough   1/24/2020
SIGNATURE   DATE

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

Mobility and Safety Division
Transportation Management

750 N.Greenfield Pkwy,Garner,NC 27529

NC 42
at
SR 1704 (Motorcycle Rd)/
Portofino Dr

Division 4	Johnston County	Clayton
PLAN DATE: January 2018	REVIEWED BY: J O Deaton	
PREPARED BY: M W Yalch	REVIEWED BY:	

REVISIONS	INIT.	DATE
▽ Revised phasing and added lane on phase 4. (JP)	RWH	1/24/20

SIG. INVENTORY NO. 04-1423T1