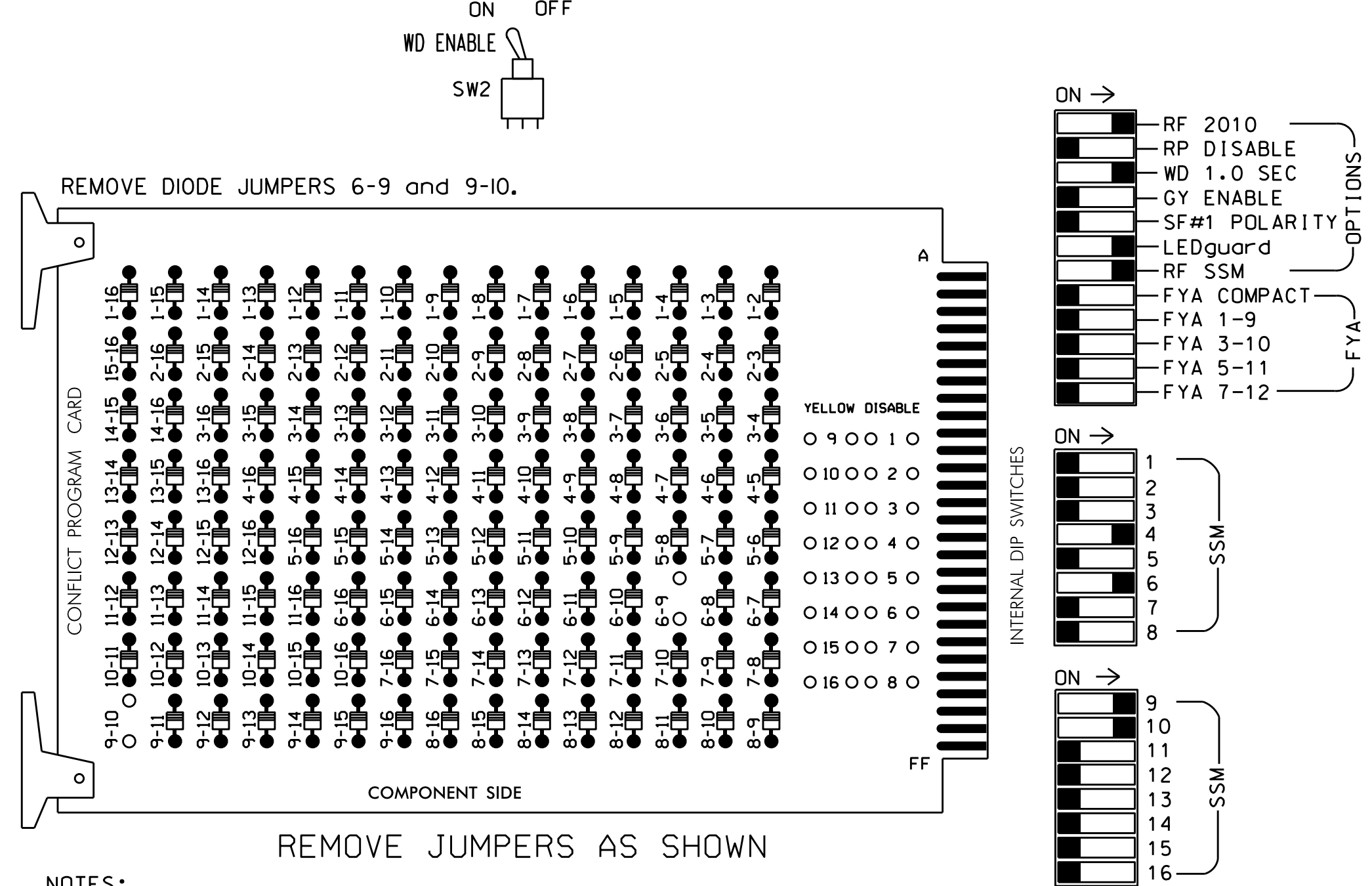


**EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches 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 SEL2-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.
- Return controller to Factory Defaults before programming per this electrical detail.
- 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 1,2,3, 5,7,8,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phase 6 for Yellow Flash.

**SIGNAL HEAD HOOK-UP CHART**

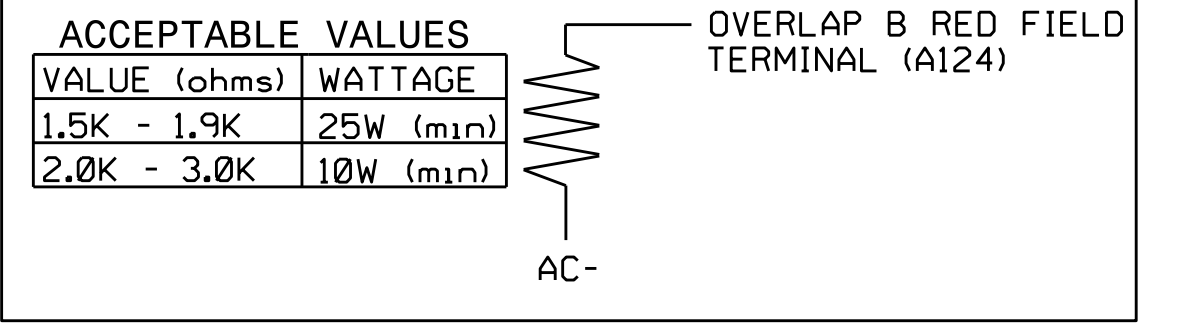
LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	9	10	11	12	13	14
SIGNAL HEAD NO.	NU	NC	NU	NC	41,42	NU	NC	61,62	NU	NU	NU	NU	21,22	21,42	NU	NU	NU	NU
RED					101			134					A121	*				
YELLOW					102			135					A122					
GREEN					103			136					A123					
RED ARROW																		
YELLOW ARROW														A125				
GREEN ARROW														A126				

NU = Not Used  
 NC = No Connection  
 \* Denotes install load resistor. See load resistor installation detail this sheet.

**EQUIPMENT INFORMATION**

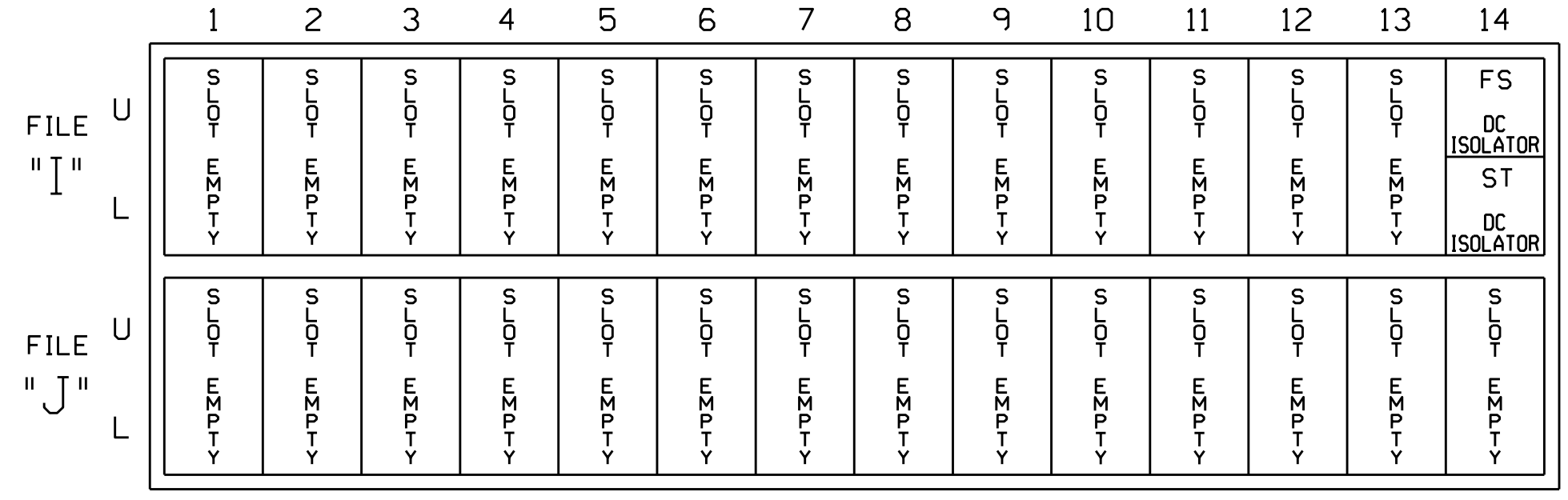
CONTROLLER.....2070  
 CABINET .....332  
 SOFTWARE .....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS..18 (12-STD, 6-AUX)  
 LOAD SWITCHES USED....S4,S6,S9,S10  
 PHASES USED.....2,3,4,5,6  
 OVERLAP A.....2+3  
 OVERLAP B.....3+5  
 OVERLAP C.....NOT USED  
 OVERLAP B.....NOT USED

**LOAD RESISTOR INSTALLATION DETAIL**



**INPUT FILE POSITION LAYOUT**

(front view)



**SPECIAL DETECTOR NOTE**

For all loops 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:          :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?...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 '+'

```

PAGE 1: VEHICLE OVERLAP 'B' SETTINGS
PHASE:          :12345678910111213141516
VEH OVL PARENTS: : X X
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 ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1054T1  
 DESIGNED: April 2019  
 SEALED: 05-16-19  
 REVISED: N/A

Electrical Detail - Temp. Design - Phase IA

Electrical and Programming Details For: **NC 105 at SR 1112 (Broadstone Rd.)**

Division 11 Watauga County Boone

PLAN DATE: May 2019 REVIEWED BY:

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

Prepared In the Offices of: **Ryan W. Hough** (Professional Engineer Seal 036833)

750 N. Greenfield Pkwy, Garner, NC 27529

SIGNATURE: Ryan W. Hough DATE: 5/30/2019

SIG. INVENTORY NO. 11-1054T1

3D-MAY-2019 09:52  
 111054.dwg encl-wk.dgn  
 J.peterson