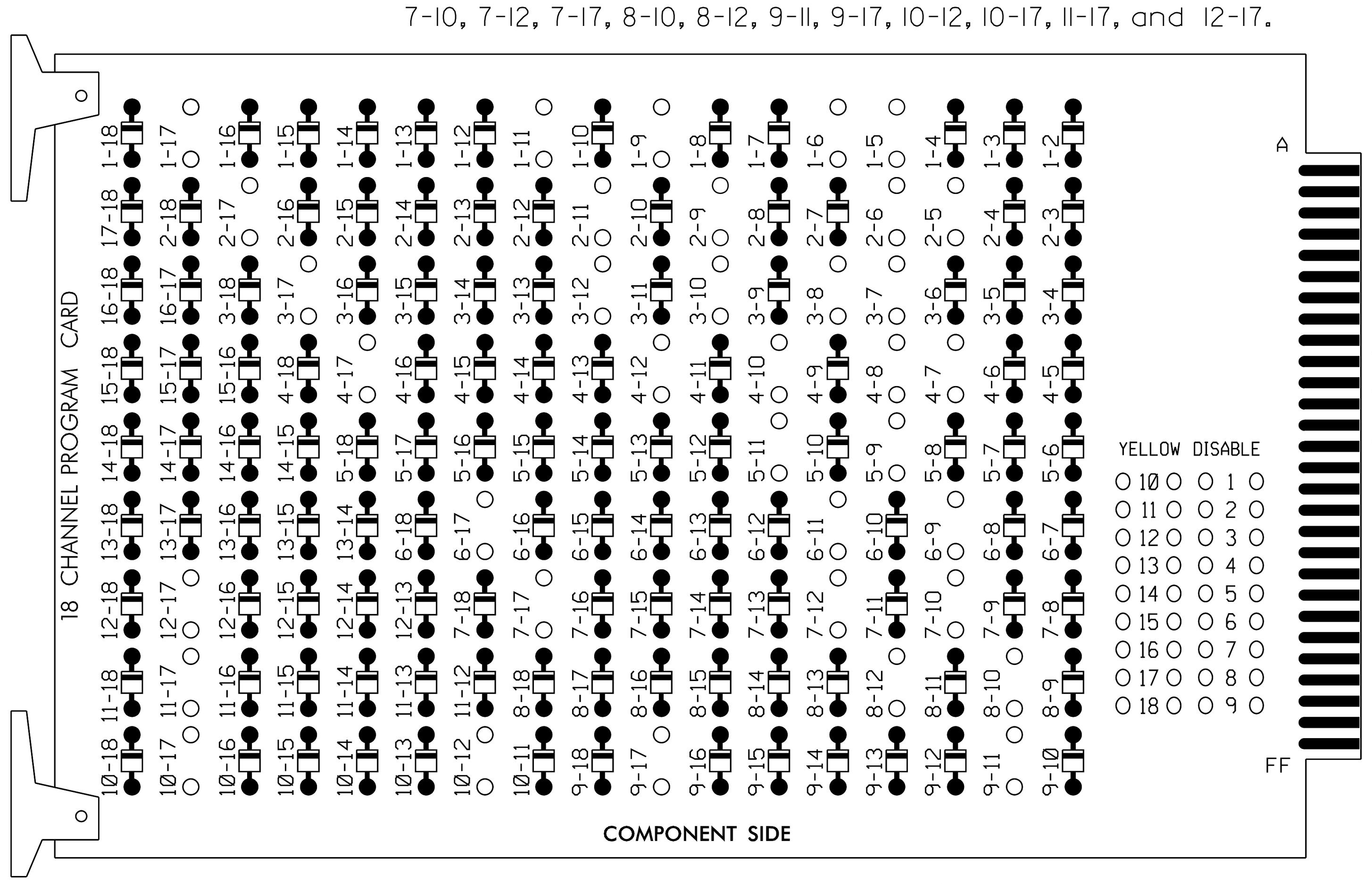
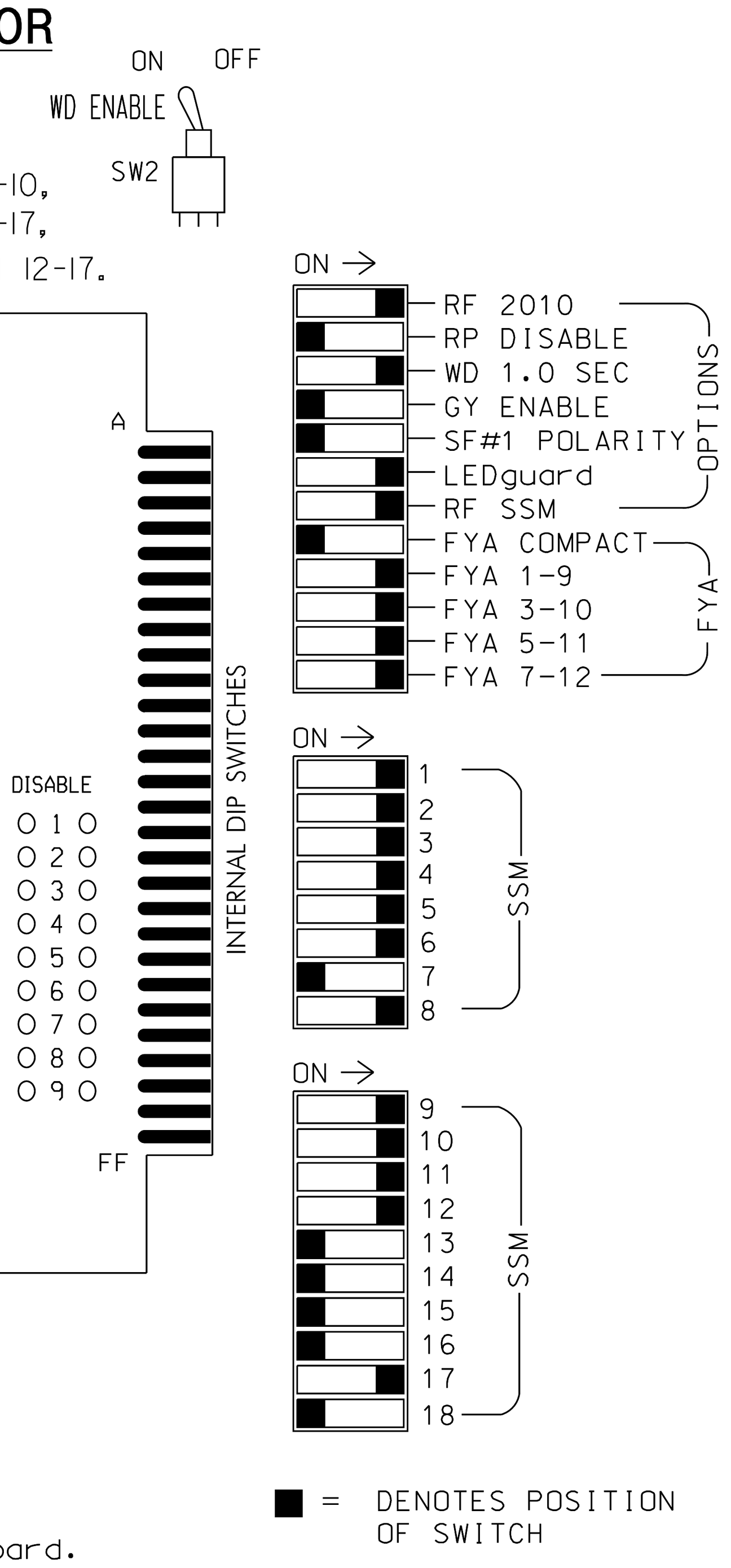
PROJECT REFERENCE NO.	SHEET NO.
U-5798A	Sig. 11.1

EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-17, 2-5, 2-6, 2-9, 2-11, 2-17, 3-7, 3-8, 3-10, 3-12, 3-17, 4-7, 4-8, 4-10, 4-12, 4-17, 5-9, 5-11, 6-9, 6-11, 6-17, 7-10, 7-12, 7-17, 8-10, 8-12, 9-11, 9-17, 10-12, 10-17, 11-17, and 12-17.





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. Integrate monitor with Ethernet network in cabinet.

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. Program controller to start up in phase 2 Green and 6 Green.
4. The cabinet and controller are part of the Fayetteville Signal System.

EQUIPMENT INFORMATION

CONTROLLER..............2070LX
CABINET.................332 W/AUX
SOFTWARE................ECONOLITE ASC/3-2070
CABINET MOUNT...........BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED......S1,S2,S4,S5,S7,S8, S10,S11,AUX S1,AUX S2,AUX S3,AUX S4,AUX S5
PHASES USED.............1,2,3,4,5,6,7,8
OVERLAP "A".............✳
OVERLAP "B".............✳
OVERLAP "C".............✳
OVERLAP "D".............✳
OVERLAP "E".............✳

✳ See overlap programming detail on sheet 2

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	OLE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11★	82	21,22	NU	22	31★	41,42	NU	42	51★	61,62	NU	71★	81,82	NU	11★	31★	63★	51★	71★	NU
RED		✳	128		✳		101		✳		134			107				A111			
YELLOW			129				102				135		✳	108							
GREEN			130				103				136			109							
RED ARROW																A121	A124		A114	A101	
YELLOW ARROW		126			117				132							A122	A125	A112	A115	A102	
FLASHING YELLOW ARROW																A123	A126	A113	A116	A103	
GREEN ARROW	127	127			118	118			133	133			124								

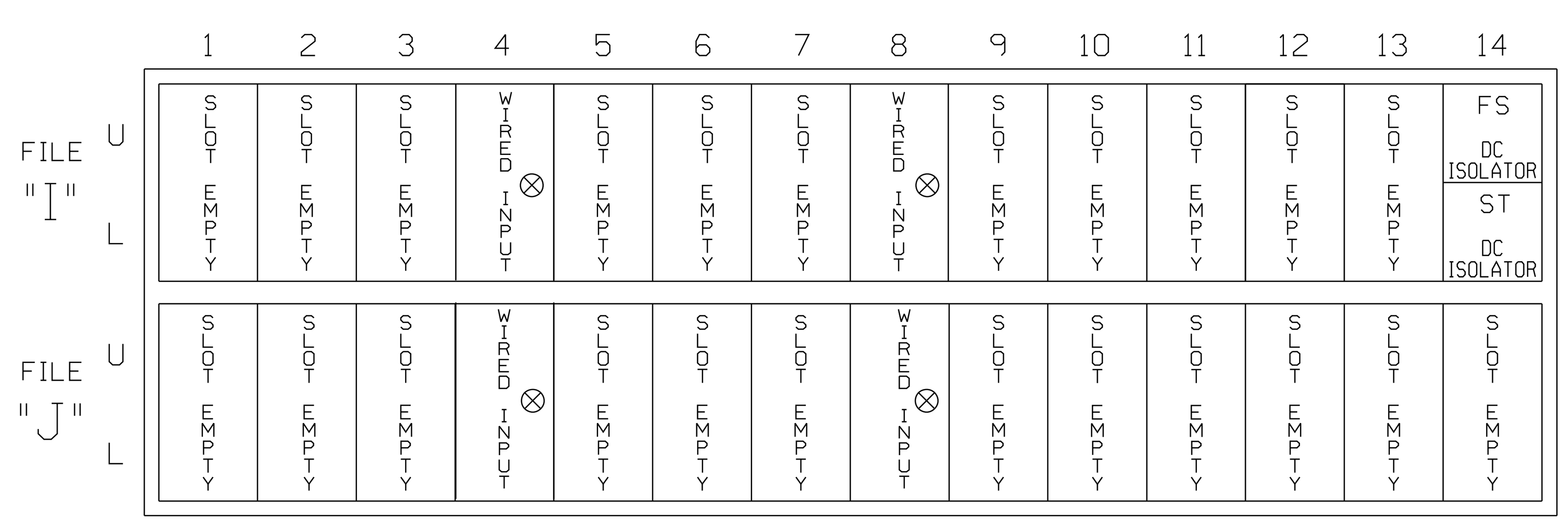
NU = Not Used

✳ Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail on sheet 2.

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A[1]	TB2-1,2	I1U	56	1★	1	YES		15	___	N
	-	J4U	48	26★	6	YES		3	___	G
3A[2]	TB4-5,6	I5U	58	3★	3	YES		15	___	N
	-	J8U	50	28★	8	YES			___	N
5A[3]	TB3-1,2	J1U	55	5★	5	YES		15	___	N
	-	I4U	47	22★	2	YES		3	___	G
7A[4]	TB5-5,6	J5U	57	7★	7	YES		15	___	N
	-	I8U	49	24★	4	YES			___	N

[1] Add jumper from I1-W to J4-W, on rear of input file.

[2] Add jumper from I5-W to J8-W, on rear of input file.

[3] Add jumper from J1-W to I4-W, on rear of input file.

[4] Add jumper from J5-W to I8-W, on rear of input file.

★ See vehicle detector setup programming detail for alternate phasing on sheet 3.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

FLASHER CIRCUIT MODIFICATION DETAIL

In order to ensure that signals flash concurrently on the Same approach, make the following flasher circuit changes:

1. On rear of PDA - remove wire from Term. T2-4 and terminate on T2-2.
2. On rear of PDA - remove wire from Term. T2-5 and terminate on T2-3.
3. Remove flasher unit 2.

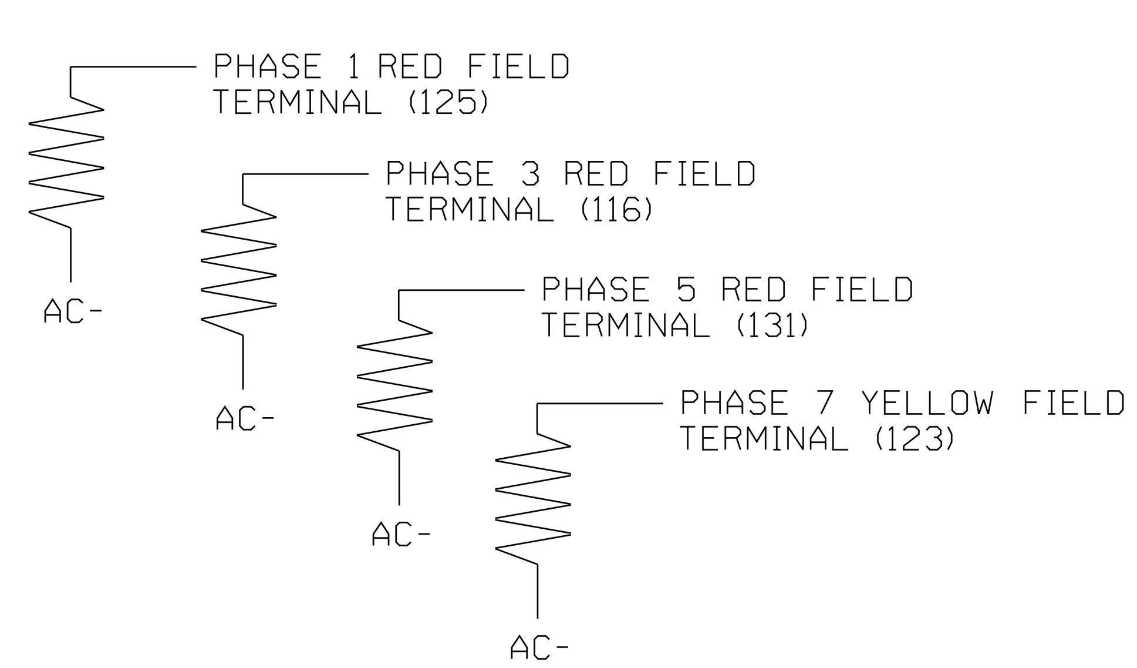
The changes listed above ties all phases and overlaps to flasher unit 1.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



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.

For Detection Zones 1A, 3A, 5A and 7A, the equipment placement and slots reserved for wired inputs are typical for a NCDOT installation.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1131T2
DESIGNED: January 2022
SEALED: 1/5/2022
REVISED: N/A

Temporary Signal 2 - TCP Phase III
Electrical Detail - Sheet 1 of 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:
Transportation Mobility and Safety Division – ITS & Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

SR 1102 (Gillis Hill Road)
at
SR 1112 (Stoney Point Road)

Division 6 Cumberland County Fayetteville

PLAN DATE: January 2022	REVIEWED BY: V. Kaiser
PREPARED BY: S.G. Haynie	REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029531 ENGINEER STEVEN G. HAYNIE

DocuSigned by: Steven G. Haynie 1/5/2022
SIGNATURE DATE

SIG. INVENTORY NO. 06-1131T2