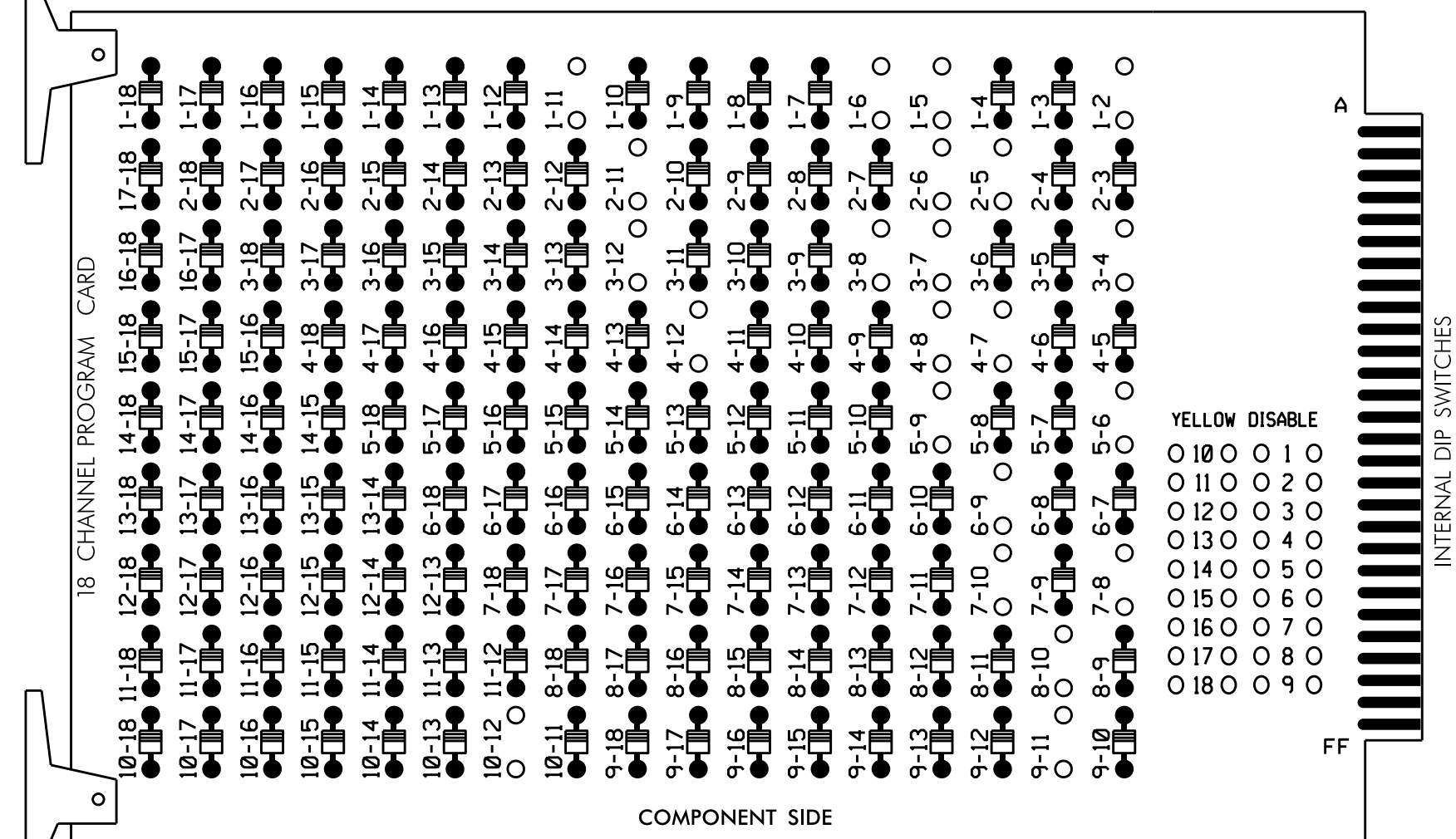


EDI MODEL 2018ECL-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

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



REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.
- Special cabinet wiring is required to utilize FYA COMPACT mode. See Ped Yellow Conflict Monitor Wiring Detail on this sheet.

■ = DENOTES POSITION OF SWITCH

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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash and overlaps 1 and 2 as Wag Overlaps.

EQUIPMENT INFORMATION

CONTROLLER.....2070  
 CABINET.....336  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....POLE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,  
 S10,S11,S12  
 PHASES USED.....1,2,3,4,5,6,7,8  
 OVERLAP "A".....1+2  
 OVERLAP "B".....3+4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....7+8

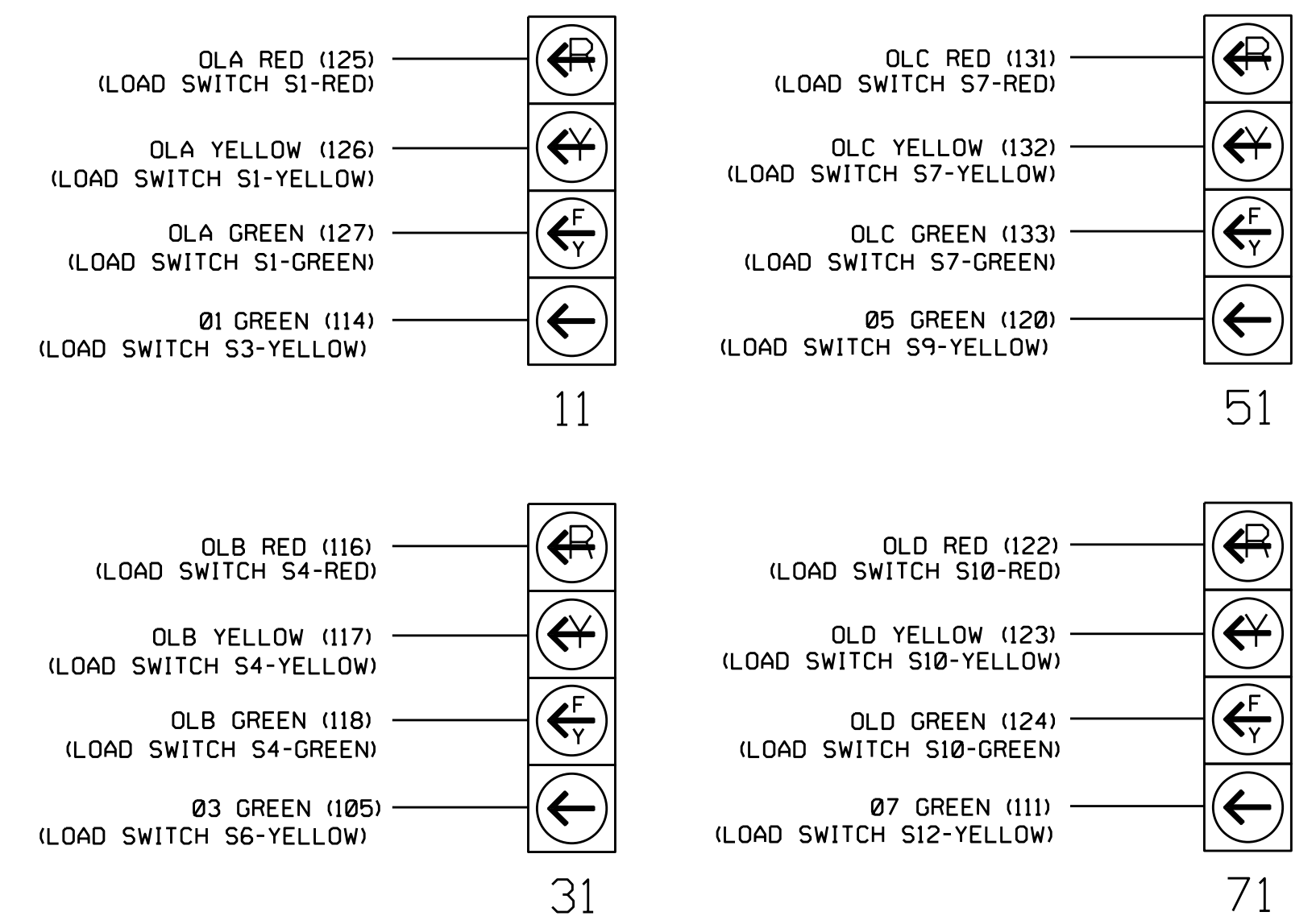
SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12				
CMU CHANNEL NO.	1	2	9	13	3	4	10	14	5	6	11	15	7	8	12	16
PHASE	OLA	2	1 GRN	2 PED	OLB	4	3 GRN	4 PED	OLC	6	5 GRN	6 PED	OLD	8	7 GRN	8 PED
SIGNAL HEAD NO.	11	21,22	11	NU	31	41,42	31	NU	51	61,62	51	NU	71	81,82	71	NU
RED		128				101			134							107
YELLOW		129				102			135							108
GREEN		130				103			136							109
RED ARROW	125				116			131								122
YELLOW ARROW	126				117			132								123
FLASHING YELLOW ARROW	127				118			133								124
GREEN ARROW			114				105			120						111
				*			*			*						*

\* Denotes install load resistor. See load resistor installation detail on sheet 2.  
 \* See pictorial of head wiring in detail below.  
 NOTE: Load Switches S1,S3,S4,S6,S7,S9,S10,S12 require output remapping.

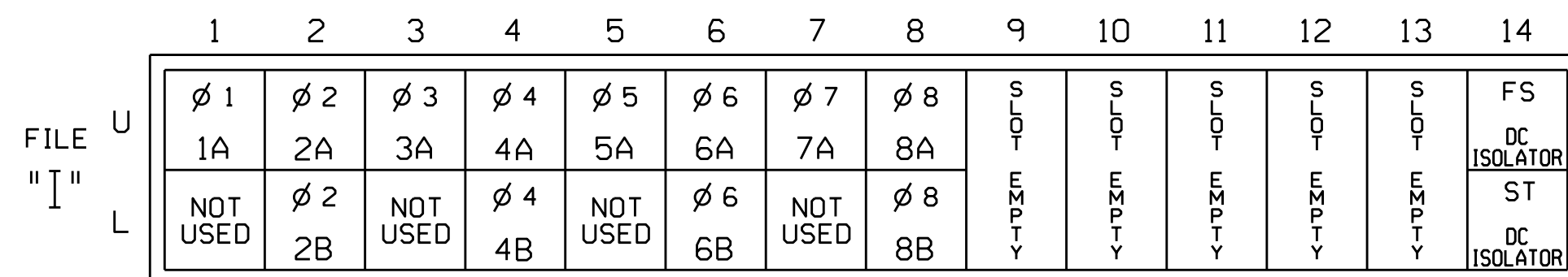
4 SECTION FYA PPLT SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)



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

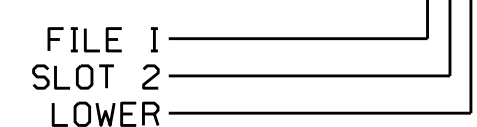
FS = FLASH SENSE  
 ST = STOP TIME

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 <sup>1</sup>	★	11U	56	18	1	1	Y	Y			15
	-	-	59	21	15	6	Y	Y			
2A	★	12U	39	1	2	2	Y	Y		2.2	
2B	★	12L	43	5	12	2	Y	Y			
3A <sup>2</sup>	★	13U	58	20	3	3	Y	Y			15
	-	-	61	23	17	8	Y	Y			3
4A	★	14U	41	3	4	4	Y	Y		2.4	
4B	★	14L	45	7	14	4	Y	Y			
5A <sup>3</sup>	★	15U	55	17	5	5	Y	Y			15
	-	-	63	25	32	2	Y	Y			
6A	★	16U	40	2	6	6	Y	Y		2.2	
6B	★	16L	44	6	16	6	Y	Y			
7A <sup>4</sup>	★	17U	57	19	7	7	Y	Y			15
	-	-	65	27	34	4	Y	Y			3
8A	★	18U	42	4	8	8	Y	Y		2.4	
8B	★	18L	46	8	18	8	Y	Y			

- Add jumper from 11-F to 11-SP, on rear of input file.
- Add jumper from 13-F to 13-SP, on rear of input file.
- Add jumper from 15-F to 15-SP, on rear of input file.
- Add jumper from 17-F to 17-SP, on rear of input file.

INPUT FILE POSITION LEGEND: I2L



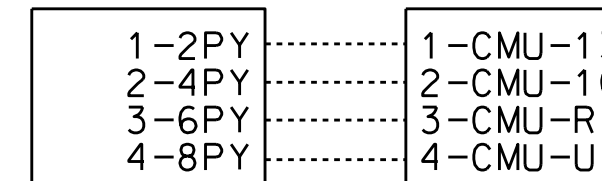
PED YELLOW CONFLICT MONITOR WIRING DETAIL

(FOR McCAIN CABINET ONLY)

In order to use FYA COMPACT mode on the 2018ECL-NC Monitor, the cabinet must be wired such that the (unused) Ped Yellow load switch outputs are wired to the conflict monitor as follows: From 2 PY (field term. 114) to chan. 9 green (monitor pin 13), from 4 PY (field term. 105) to chan. 9 yellow (monitor pin 16), from 6 PY (field term. 120) to chan. 10 green (monitor pin R), and from 8 PY (field term. 111) to chan. 10 yellow (monitor pin U).

This is accomplished through a keyed plug connection found on the inside panel of the output file.

Fold down rear panel of output file and find a set of 3 white Molex connectors. Plug together the two connectors labeled as shown below:



\* 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.

Electrical Detail - Temporary Design - Sheet 1 of 7

Electrical and Programming Details for: NC 150 (Cherryville Rd.) at NC 180 (North Post Rd.)

Division 12 Cleveland County Shelby

PLAN DATE: February 2017 REVIEWED BY: T. Joyce

PREPARED BY: C. Strickland REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0596T  
 DESIGNED: January 2017  
 SEALED: 2/20/2017  
 REVISED:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030530 JACUARY M. LITTLE

3/7/2017

SIG. INVENTORY NO. 12-0596T