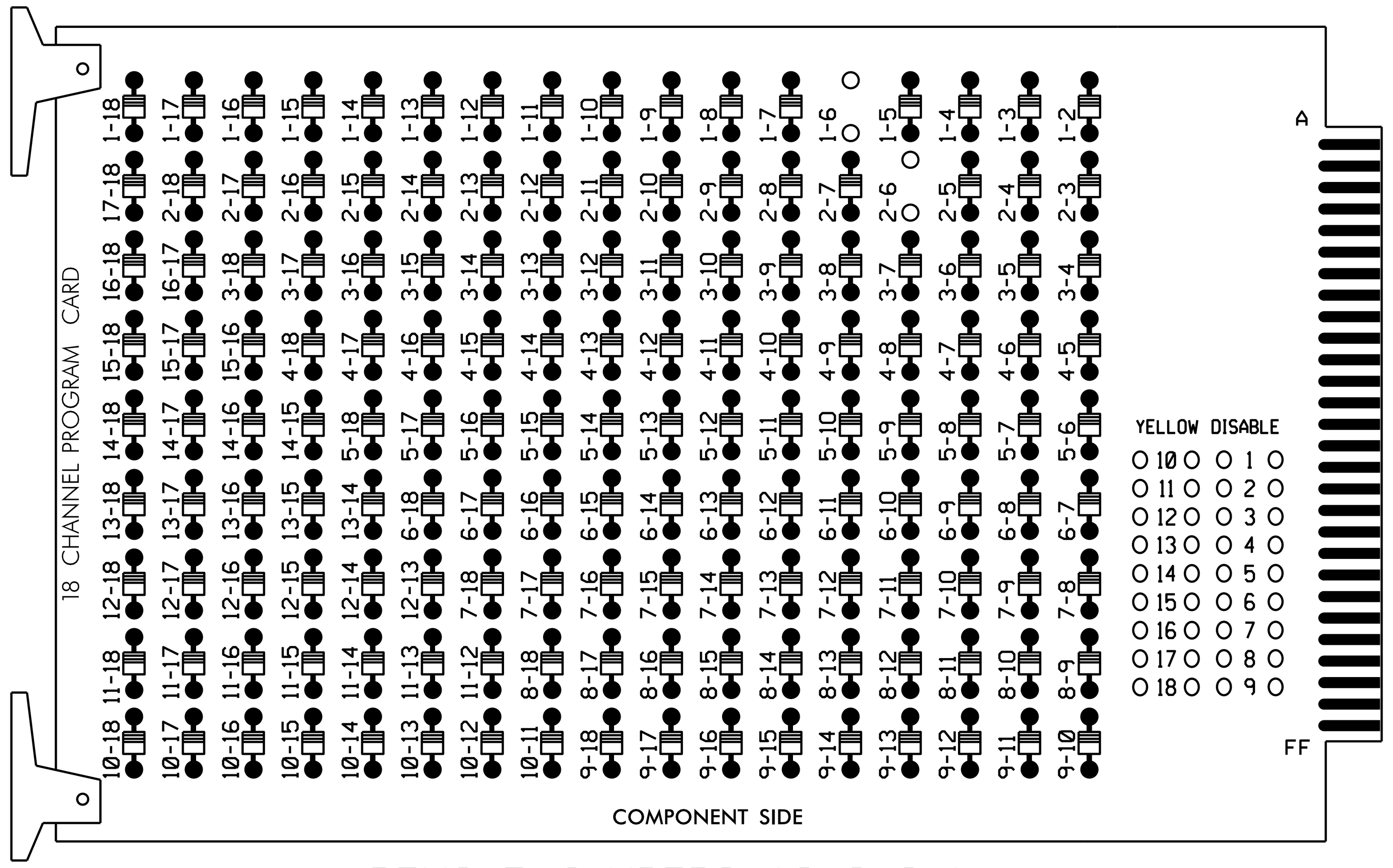
PROJECT REFERENCE NO.	SHEET NO.
U-4715 B	Sig.179.1

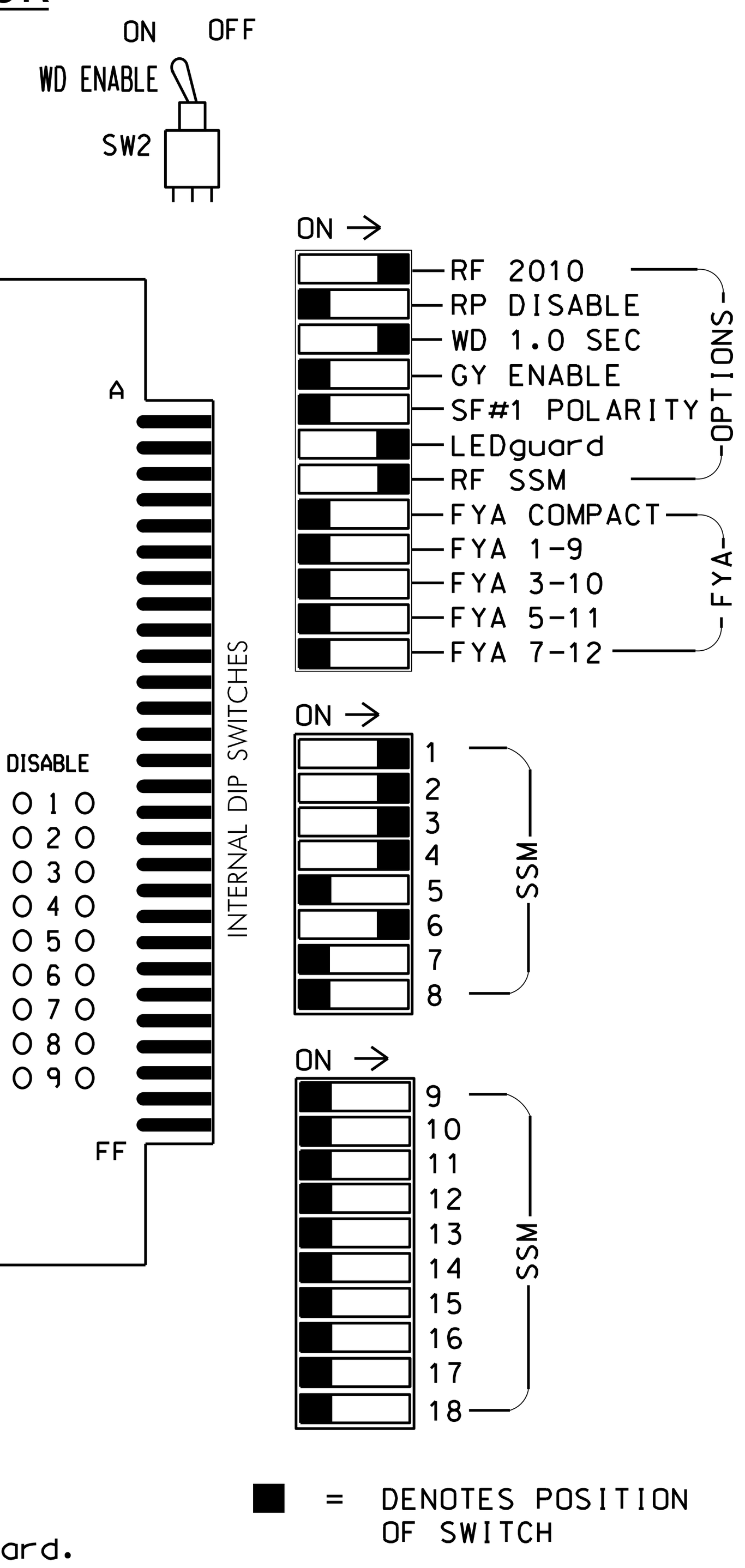
EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-6 and 2-6.



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. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for Gap Reduction.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 2 and 6 for Yellow Flash.
6. The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER..............2070E
CABINET.................336
SOFTWARE................ECONOLITE OASIS
CABINET MOUNT...........POLE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED......S1,S2,S4,S5,S8
PHASES USED.............1,2,3,4,6
OVERLAPS................NONE

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	13	3	4		14	5	6	15	7	8	16
PHASE	1	2	2 PED	3	4		4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	61	21,22	NU	31,32 33,34	41	42	NU	NU	61,62	NU	NU	NU	NU
RED	✳	128		116	101	101			134				
YELLOW		129		117	102	102			135				
GREEN		130		118	103	103			136				
RED ARROW													
YELLOW ARROW	126												
GREEN ARROW	127				103								
(hand)													
(walk)													

NU = Not Used

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

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	U	Ø1 1A	Ø2 2A	Ø3 3A	Ø4 4A	SLOT EMPTY	Ø6 6A	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS DC ISOLATOR
	L	⊗ WIRED INPUT	Ø2 2B	Ø3 3B	Ø3 3C		NOT USED								ST DC ISOLATOR

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

⊗ Disable Channel 2

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[1]	TB21-1,2	I1U	56	18	1	1	Y	Y			15
	-	I1L	47	9	22	6	Y	Y	Y	2.0	5
2A	TB21-3,4	I2U	39	1	2	2	Y	Y			
2B	TB23-3,4	I2L	43	5	12	2	Y	Y	Y	2.0	5
3A	TB21-5,6	I3U	58	20	3	3	Y	Y			3
3B	TB23-5,6	I3L	49	11	24	3	Y	Y			10
3C	TB23-7,8	I4L	45	7	14	3	Y	Y			15
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			
6A	TB21-11,12	I6U	40	2	6	6	Y	Y			

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

INPUT FILE POSITION LEGEND: I2L

FILE I
SLOT 2
LOWER

BACKUP PROTECTION NOTE

(program controller as shown below)

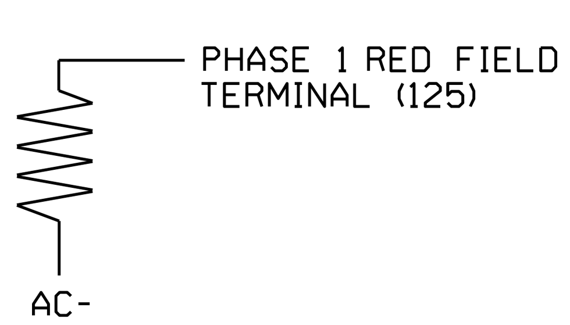
From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0994
DESIGNED: March 2016
SEALED: 8/17/2016
REVISED:

LOAD RESISTOR INSTALLATION DETAIL

ACCEPTABLE VALUES

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



Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

NC 191 (Brevard Road) at SR 3486 (Avery's Creek Road) and SR 3486 (Glen Bridge Road) and SR 3573 (Southwick Road)

Division 13 Buncombe County Avery Creek

PLAN DATE: July 2016 REVIEWED BY: K. Mims
PREPARED BY: Z.M. Little REVIEWED BY:

REVISIONS INIT. DATE

Prepared in the Offices of: Transportation Mobility and Safety Division, Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036880 KEITH M. MIMS

DocuSigned by: Keith M. Mims 8/18/2016
SIGNATURE DATE

SIG. INVENTORY NO. 13-0994

18-AUG-2016 16:28
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