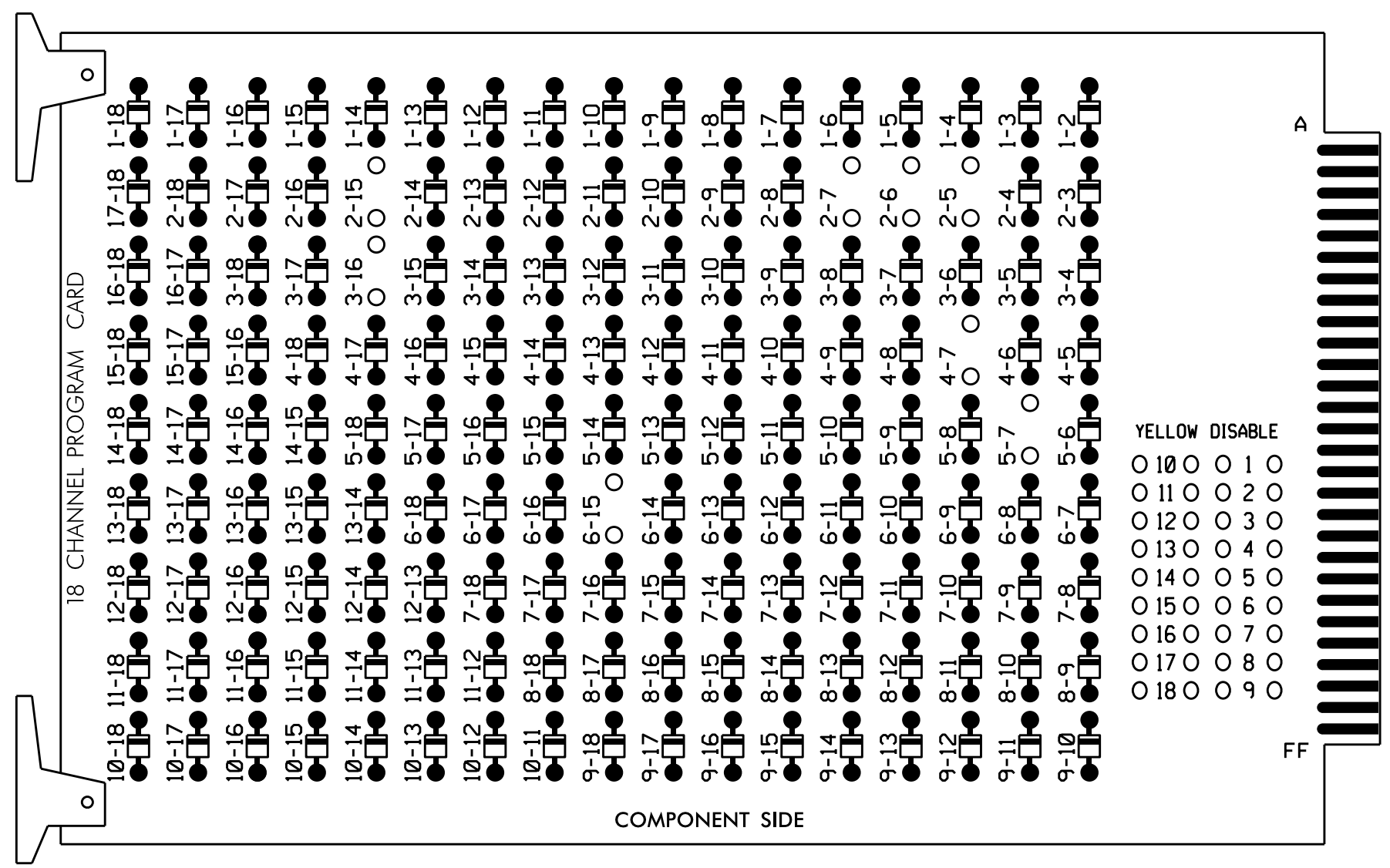


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

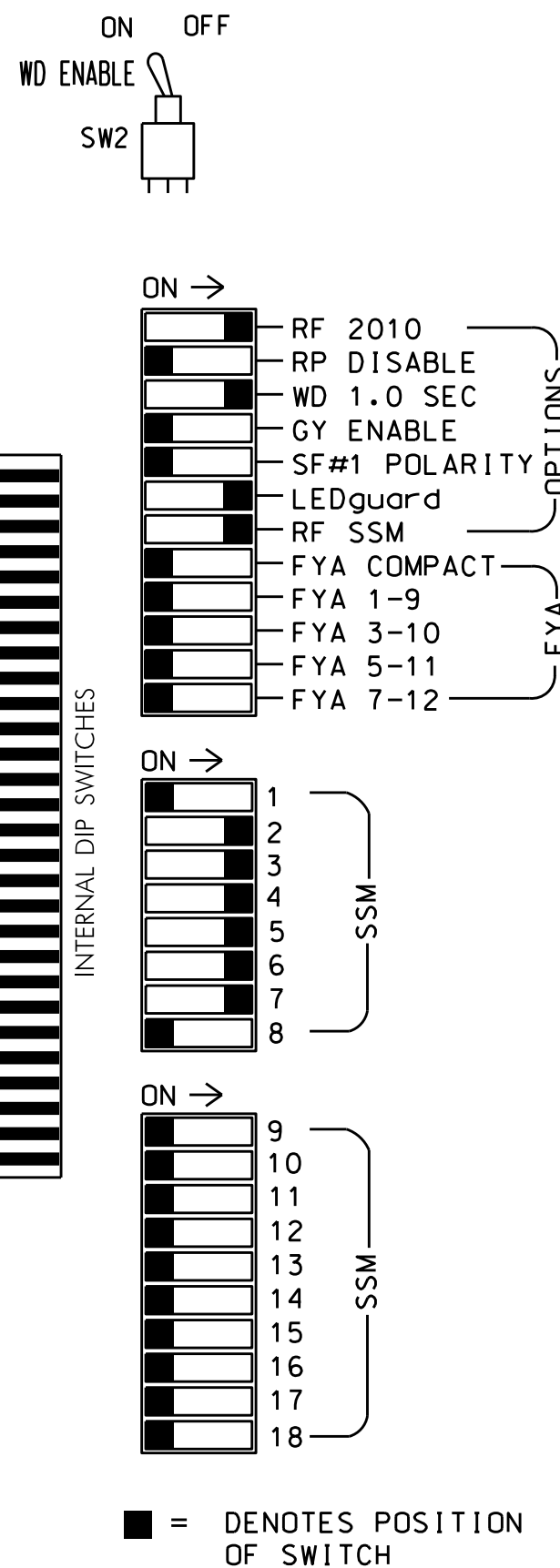
REMOVE DIODE JUMPERS 2-5, 2-6, 2-7, 2-15, 3-16, 4-7, 5-7, and 6-15



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.



■ = DENOTES POSITION OF SWITCH

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 volume density operation.
4. Program controller to start up in phase 2 Green and 6 Walk.
5. The cabinet and controller are part of the Concord Mills Blvd. CLS.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S5,S7,S8,S9,S10,S12
 PHASES USED.....2,3,3PED,4,5,6,6PED
 OVERLAP E.....4+5

* Phase used for timing purposes only.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

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	OLE	8	3 PED
SIGNAL HEAD NO.	NU	21,22 23	NU	31,32 33,34	41,42 63	NU	51,52	61,62 63	P61, P62	43	NU	P31,P32 P33,P34
RED		128		116				134		122		
YELLOW		129						135				
GREEN		130						136				
RED ARROW					101			131				
YELLOW ARROW				117	102	102		132			123	
GREEN ARROW				118	103	103		133			124	
Hand										119		110
Walker										121		112

NU = Not Used

NOTE: The outputs for load switches S10 and S12 have been reassigned. See sheet 2 for details.

INPUT FILE POSITION LAYOUT

(front view)

FILE "J"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 2	∅ 2	∅ 2	∅ 3	∅ 3	∅ 4	∅ 4	∅ 4	SYS. DET. S10	∅ 6 PED	FS	∅ 6 PED	FS	
L	2A	2C	NOT USED	3A	3B	4A	4B	4C	SYS. DET. S11	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	
U	∅ 5	∅ 5	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	SYS. DET. S12	∅ 3 PED	ST	∅ 3 PED	ST	
L	5A	5B	6A	6C	6C	6C	6C	6C	NOT USED	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	

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

FS = FLASH SENSE
 ST = STOP TIME

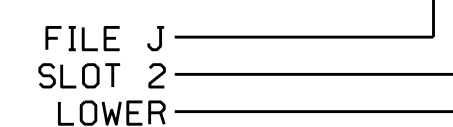
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
2A	TB2-5,6	I2U	39	2	2	YES			S
2B	TB2-7,8	I2L	43	12	2	YES			S
2C	TB2-9,10	I3U	63	32	2	YES			S
3A	TB4-5,6	I5U	58	3	3	YES			S
3B	TB4-9,10	I6U	41	4	3	YES			S
3C	TB4-11,12	I6L	45	14	3	YES			S
4A	TB6-1,2	I7U	65	34	4	YES			S
4B	TB6-3,4	I7L	78	44	4	YES			S
5A	TB3-1,2	J1U	55	5	5	YES			S
5B	TB3-5,6	J2U	40	6	5	YES			S
5C	TB3-7,8	J2L	44	16	5	YES		15	S
6A	TB3-9,10	J3U	64	36	6	YES			S
6B	TB3-11,12	J3L	77	46	6	YES			S
6C	TB5-1,2	J4U	48	26	6	YES			S
* S10	TB6-9,10	I9U	60	11	SYS	NO			N
* S11	TB6-11,12	I9L	62	13	SYS	NO			N
* S12	TB7-9,10	J9U	59	15	SYS	NO			N
PED PUSH BUTTONS									
P31,P32 P33,P34	TB8-8,9	I13L	70	PED 8	3 PED				
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED				

NOTE:
 INSTALL DC ISOLATOR
 IN INPUT FILE SLOT 113.

* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



ECONOLITE ASC/3-2070 VEHICLE OVERLAP PROGRAMMING DETAIL

(program controller as shown)

1. From Main Menu select **2. CONTROLLER**
2. From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**

Toggle Four Times

OVERLAP E

Select TMG VEH OVLP [E] and 'NORMAL'

TMG VEH OVLP...[E] TYPE:**NORMAL**
 PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
 INCLUDED . . . X X
 LAG GRN 0.0 YEL 0.0 RED 0.0

END PROGRAMMING

Electrical Detail - Final Design - Sheet 1 of 2

Electrical and Programming Details For:

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

SR 2894 (Concord Mills Blvd.)
 at
 Concord Mills Exit/
 Shopping Center Entrance

Division 10 Cabarrus County Concord

PLAN DATE: September 2017 REVIEWED BY:

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS: _____ INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

DocuSigned by:
 Keith M. Mims
 9/26/2017
 DATE

SIG. INVENTORY NO. 10-1732

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 10-1732
 DESIGNED: July 2017
 SEALED: 9/25/2017
 REVISED: N/A

26-SEP-2017 13:48
 C:\PLOTS\10-1732\SIG\10-1732_Sig_elec.dgn
 S:\MSTRONG\10-1732\SIG\10-1732_Sig_elec.dgn
 S:\MSTRONG