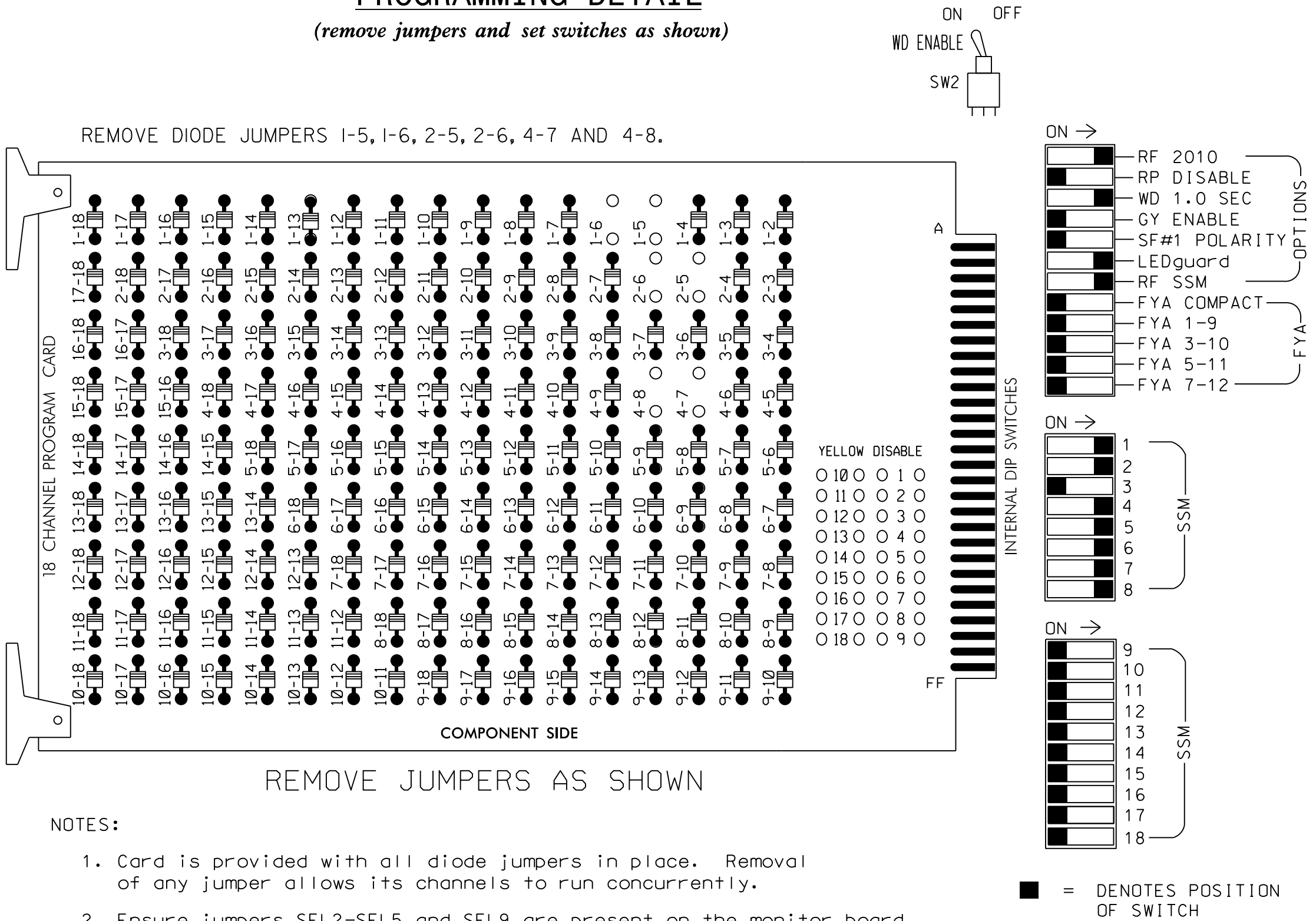


3/27/2025
D:\AECOM\nc-pw-bent1\ey.com\AECOM_USA_North_Carolina\Documents\465598150-NCDOT_SMU_B-4838\400-CAD_015\410-CAD\70-NCDOT_TIP\Traffic\651\gno1s\40233T1_sm.dgn 2025XXXX.dgn
T:\ndm

18 CHANNEL CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



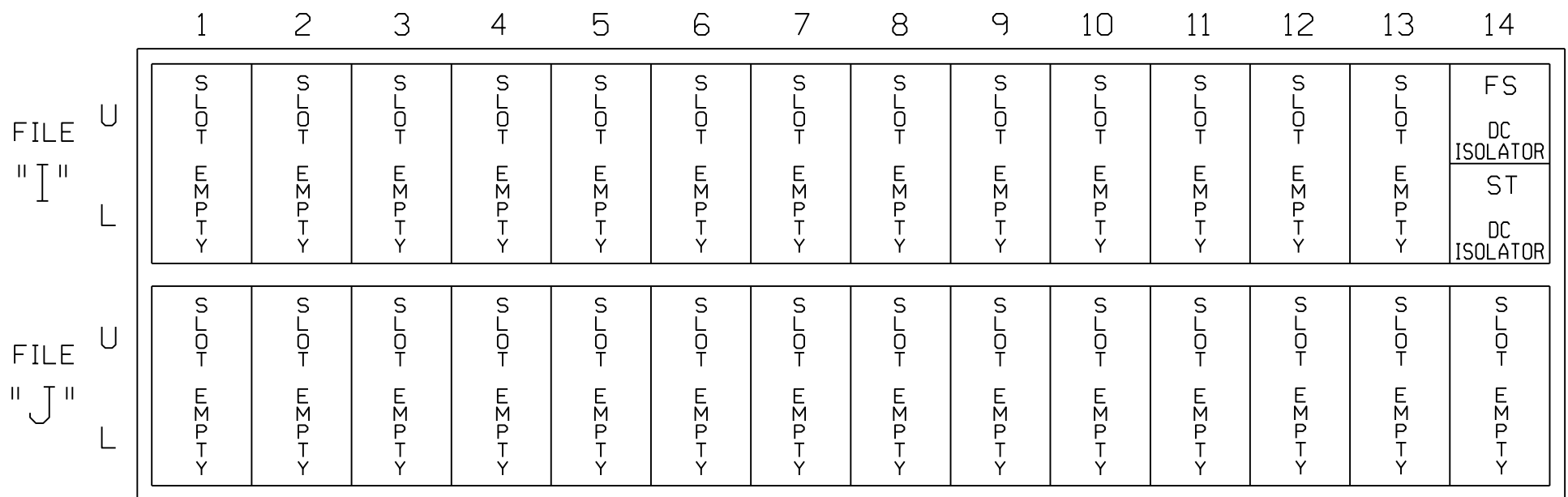
REMOVE JUMPERS AS SHOWN

NOTES:

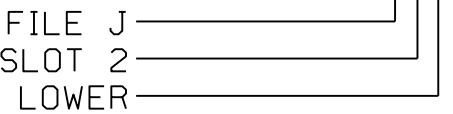
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

INPUT FILE POSITION LAYOUT

(front view)



INPUT FILE POSITION LEGEND: J2L



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.
- Disable all phases for Startup In Green.
- Disable all phases for Yellow Flash.
- Program phases 2 and 6 for First Phases.
- The cabinet and controller are part of the Goldsboro City System.

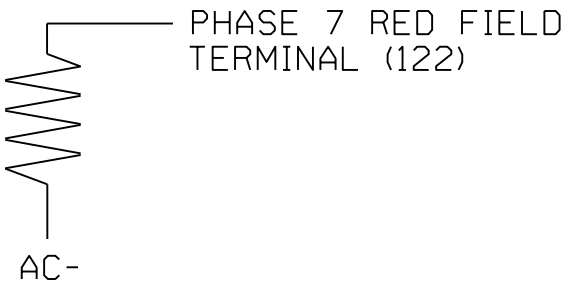
EQUIPMENT INFORMATION

CONTROLLER.....2070LX
CABINET.....332 W/AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S5,S7,S8,S10,S11
PHASES USED.....1,2,4,5,6,7,8
OVERLAPS.....NONE

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

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



SPECIAL DETECTOR NOTE

Install a multi-zone microwave 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.

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

PROJECT REFERENCE NO.	SHEET NO.
B-4838	Sig. 3.1

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	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	NU	NU	41,42	NU	51	61,62	NU	41	82,83	NU	NU	NU	NU	NU	NU	NU
RED		128			101			134		*	107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW	125						131											
YELLOW ARROW	126						132			123								
GREEN ARROW	127						133			124								

NU = Not Used

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

DYNAMIC OMIT CONTROL PROGRAMMING

(program controller as shown below)

- From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable Dynamic/Backup Control Function 1.
- From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

DYNAMIC/BACKUP CONTROL FUNCTION #01
OVERLAPS: ABCDEFGHIJKLMNOP
IF OVERLAPS ARE ACTIVE :
OR PHASES ARE ON: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES : X
CALL PHASES :

BACKUP PROTECTION PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 04-0233T1
DESIGNED: February 2025
SEALED: 3/27/2025
REVISED:

Temporary Design 1 (TMP Phase II)
Electrical Detail

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:		US 70 Business (George Street) at US 70 Business (Grantham Street)		SEAL	
Prepared for the Offices of:		Division 4 Wayne County Goldsboro		SEAL 07438	
PLAN DATE: February 2025		REVIEWED BY: J O Deaton		ENGINEER JAMES O. DEATON	
PREPARED BY: M W Yalch		REVIEWED BY:		DATE	
REVISIONS		INIT.		DATE	
750 N. Greenfield Pkwy, Garner, NC 27529		Signature: James O. Deaton		3/27/2025	
		DATE		DATE	
		SIG. INVENTORY NO. 04-0233T1			