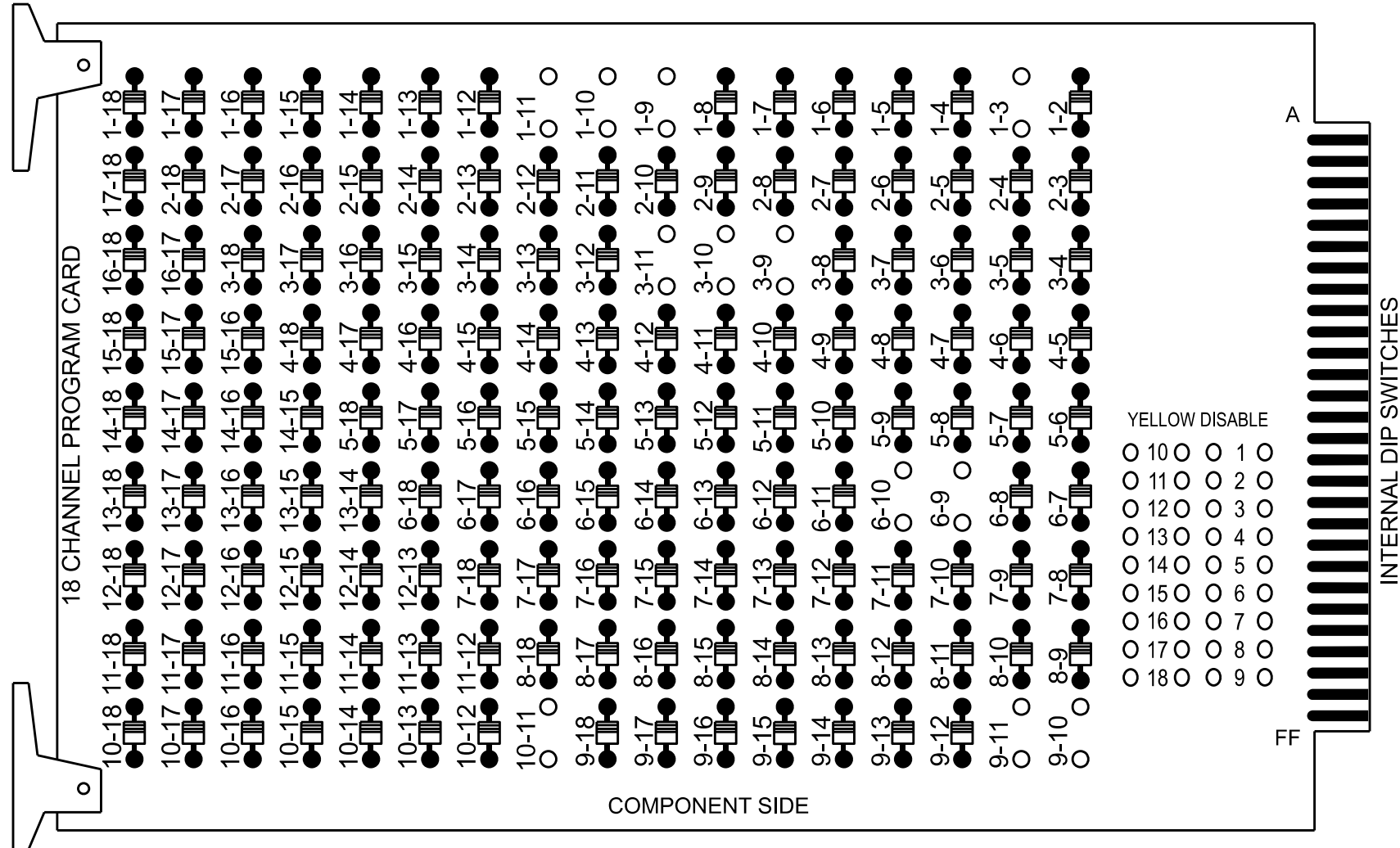


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D:\p\modat-pa\hnt\ey.com\modat-pw-01\Documents\NC001 TSMQ\SIGNAL Design Sect1\ov01\vision_05\05-1662\SIGNAL Management\051662_sm_e_2025rmdtd.dgn
ZZZfor

18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

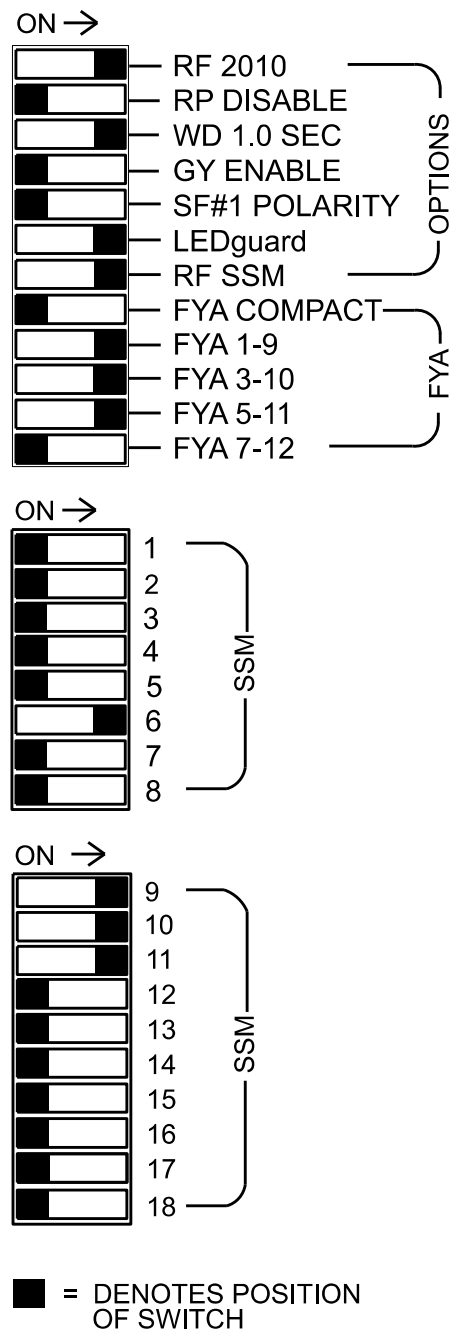
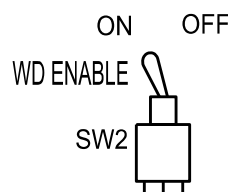
REMOVE DIODE JUMPERS 1-3, 1-9, 1-10, 1-11, 3-9, 3-10, 3-11, 6-9, 6-10, 9-10,
9-11 and 10-11.



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 the 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.



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- Program phases 3 and 8 for Dual Entry.
- Program controller to start up in phase 2 Phase Not On and phase 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the SR 1006 (Old Stage Road) @ 540 CLS Signal System #: D05-17_Fuquay-Varina .

EQUIPMENT INFORMATION

Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S1, S4, S8, AUX S1,
AUX S2, AUX S4
Phases Used.....3, 6, 8**
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....Not Used
Overlap "7".....*

*See overlap programming detail on sheet 2
**Phase used for timing purposes

PROJECT REFERENCE NO.	SHEET NO.
HL-00081	Sig. 5.1

SIGNAL HEAD HOOK-UP CHART

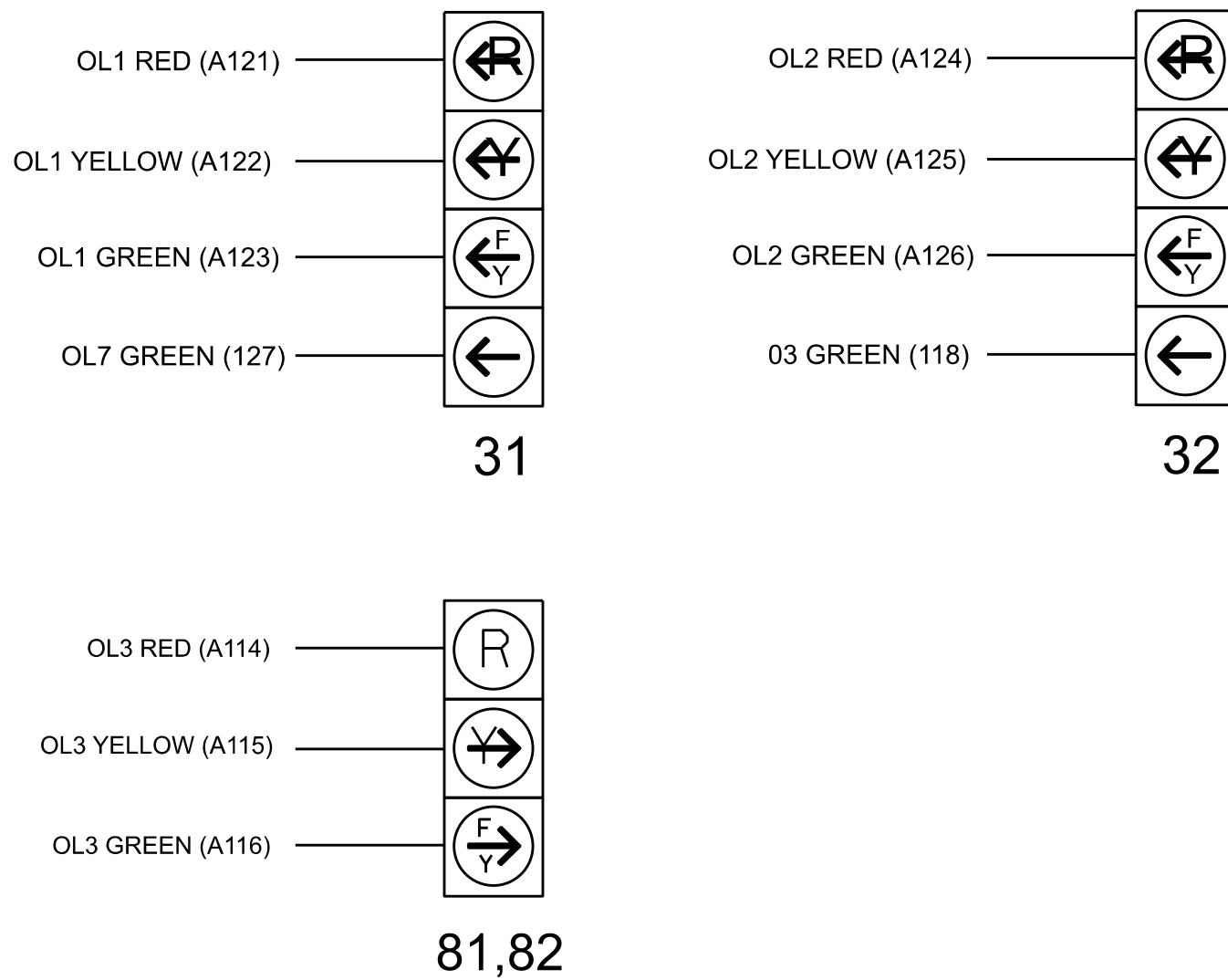
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	OL7	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	31★	NU	NU	32★	NU	NU	NU	61	62	NU	NU	NC	NU	31★	32★	NU	81,82★	NU
RED								134	134								A114	
YELLOW	★			★				135	135									
GREEN								136										
RED ARROW													A121	A124				
YELLOW ARROW													A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127			118				136										
Hand																		
Walking																		

NU = Not Used
NC = No Connection

* Denotes install load resistor. See load resistor installation detail this sheet.
★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)

FILE	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"		S	S	S	S	Ø 3	S	S	S	S	S	S	S	S	FS
		3A				3A									DC ISOLATOR
		NOT USED				NOT USED									ST
															DC ISOLATOR
FILE	U	S	Ø 6	S	S	S	Ø 8	S	S	S	S	S	S	S	S
"J"		6A					8A								
		Ø 6					NOT USED								
		6B													

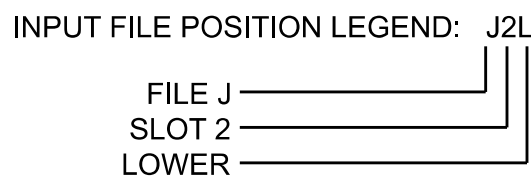
EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
3A	TB4-5,6	ISU	58	20	7 ★	3	15			X		
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
6B	TB3-7,8	J2L	44	6	17	6			X	X	X	
8A	TB5-9,10	J6U	42	4	22	8	15		X		X	

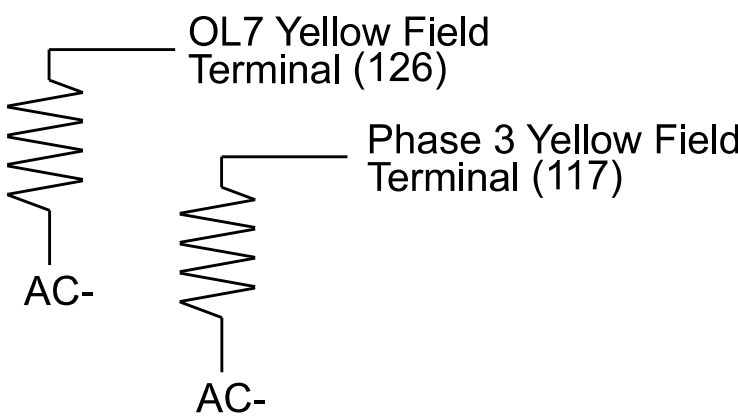
★ For the detectors to work as shown on the signal design plan, see the Detector Programming Detail for Alternate Phasing on sheet 2.



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)	



Electrical Detail - Sheet 1 of 3

Electrical and Programming Details For:	SR 1006 (Old Stage Road) at SR 2724 (Banks Road)	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared in the Offices of:	Division 5 Wake County Fuquay-Varina	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001 ENGINEER TODD JOYCE
750 N. Greenfield Pkwy, Garner, NC 27529	PLAN DATE: August 2025 REVIEWED BY: PREPARED BY: Zarrar Zafar REVIEWED BY:	DocuSigned by: D. Todd Joyce 08/29/2025 DATE SIG. INVENTORY NO. 05-1662