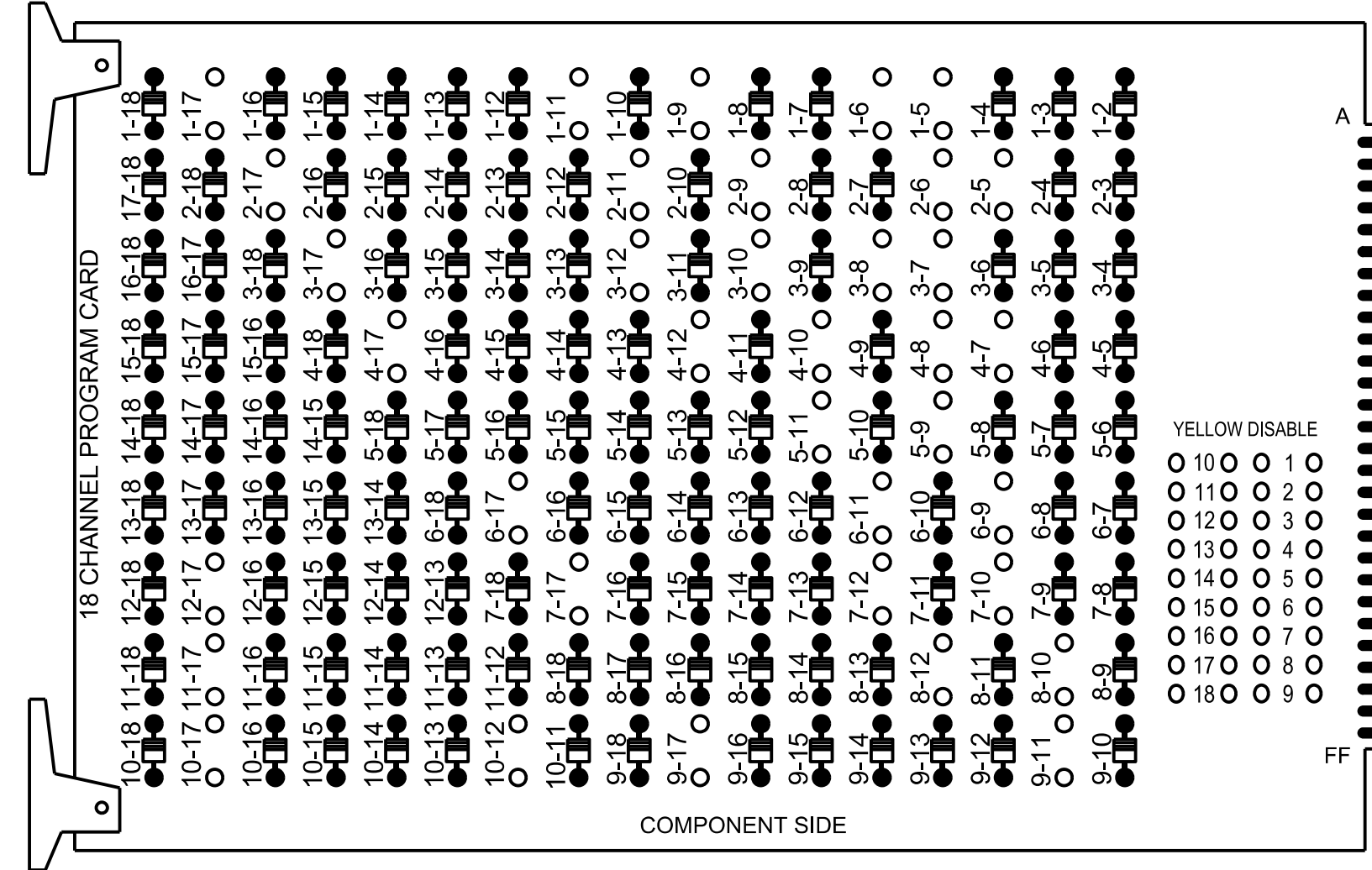


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-17, 2-5, 2-6, 2-9, 2-11, 2-17, 3-7, 3-8, 3-10, 3-12, 3-17, 4-7, 4-8, 4-10, 4-12, 4-17, 5-9, 5-11, 6-9, 6-11, 6-17, 7-10, 7-12, 7-17, 8-10, 8-12, 9-11, 9-17, 10-12, 10-17, 11-17, and 12-17.



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 unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- Program phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- Program phases 2 and 6 for Advanced Warning.
- Program phases 2 and 6 for 3.0 seconds Pre Clearance.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

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, S2, **S3, S4, S5, **S6, S7, S8, **S9, S10, S11, **S12, AUX S1, AUX S2, AUX S3, AUX S4, AUX S5
 Phases Used.....1, 2, 3, 4, 5, 6, 7, 8
 Overlap "1".....*
 Overlap "2".....*
 Overlap "3".....*
 Overlap "4".....*
 Overlap "5".....*

*See overlap programming detail on sheet 2.
 **Used for Advance Beacons only.

SPECIAL DETECTOR NOTE

Install a multizone 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.

This plan supersedes the plan sealed on 08/30/2024.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-1238
 DESIGNED: Feb 2025
 SEALED: 02/04/2025
 REVISED: N/A

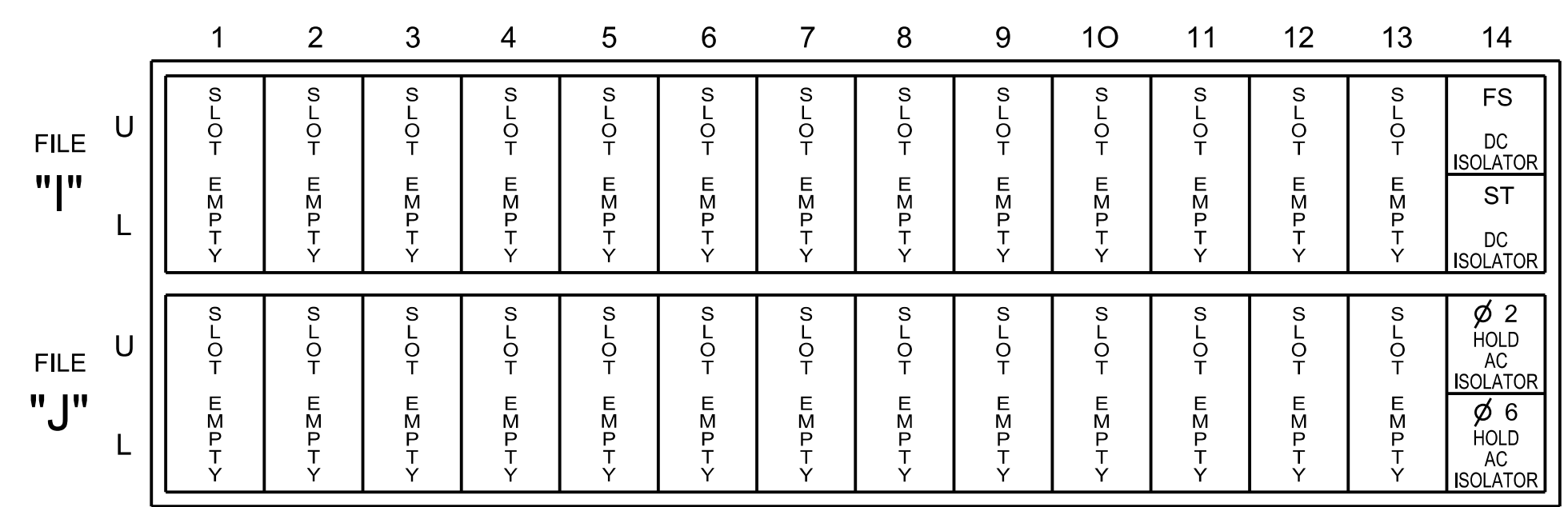
SIGNAL HEAD HOOK-UP CHART

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	ADVANCE BEACON	3	4	4 PED	ADVANCE BEACON	5	6	6 PED	ADVANCE BEACON	7	8	8 PED	ADVANCE BEACON	OL1	OL2	OL3	OL4	SPARE						
SIGNAL HEAD NO.	11	21,22	23	NU	24,26	31	41,42	43	NU	65,67	51	61,62	64	NU	25,27	71	81,82	83	NU	66,68	11	31	63	51	71	NU	
RED		128	128			101				134	134																
YELLOW	*	129	129		*	102			*	135	135																
GREEN		130	130			103				136	136																
RED ARROW																											
YELLOW ARROW																											
FLASHING YELLOW ARROW																											
GREEN ARROW	127					118				133			124														
PED YELLOW					**	114			**	105			**	120			**	111									
PED GREEN																											

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ** See pictorial of head wiring in detail this sheet.
 ** Outputs have been reassigned for Advanced Beacons. See sheet 3 for reassignment, programming and wiring details.

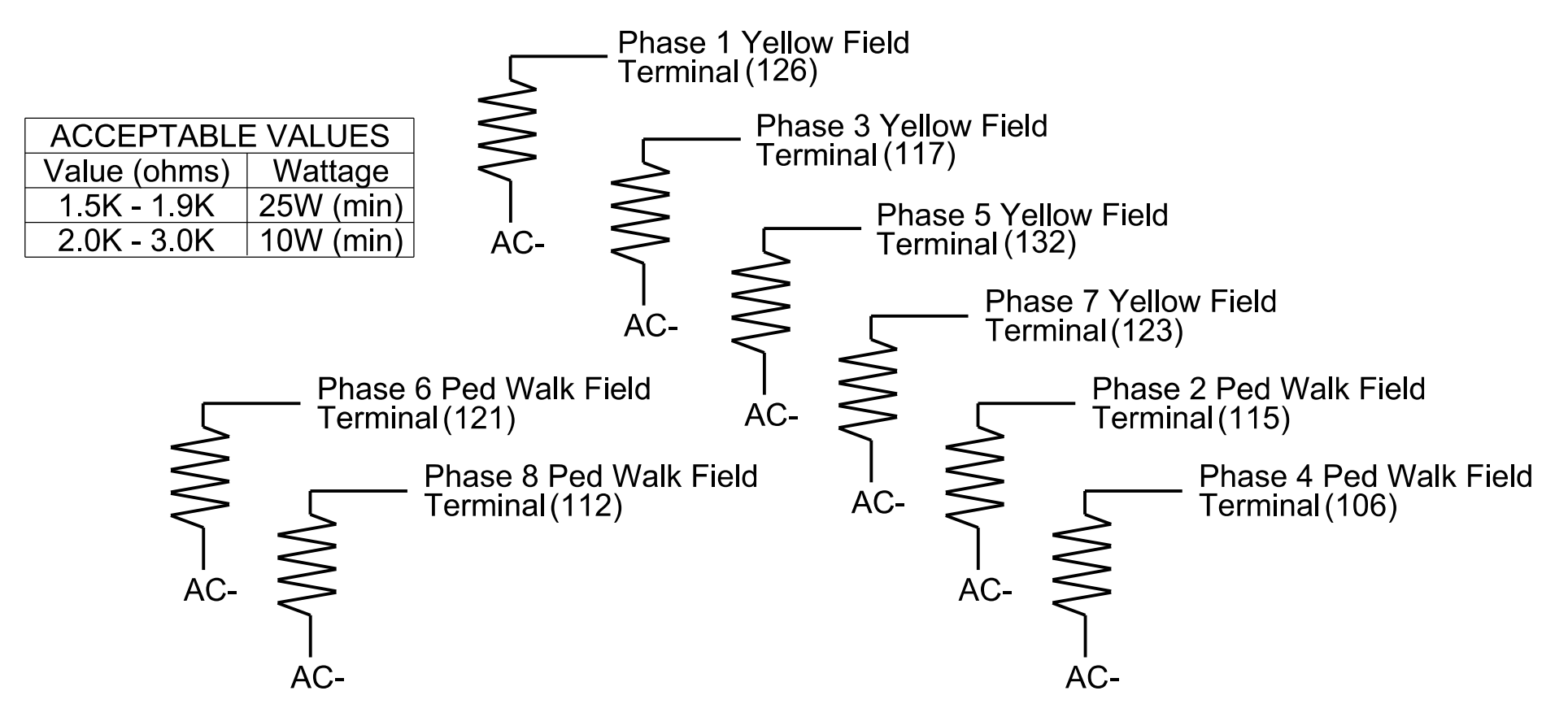
INPUT FILE POSITION LAYOUT

(front view)



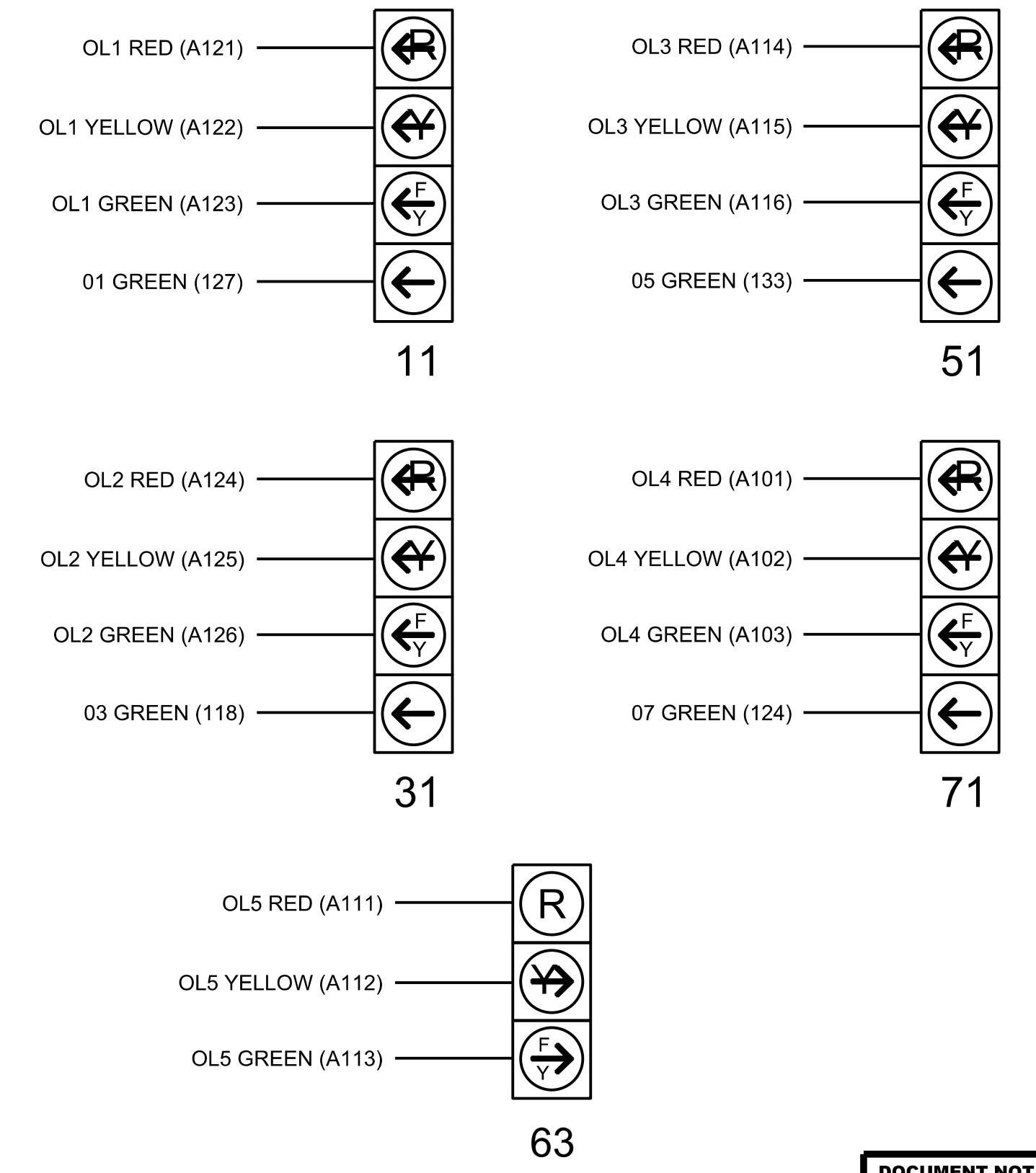
LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



Electrical Detail - Sheet 1 of 7

Electrical and Programming Details for: US 74 (Andrew Jackson Hwy) at International Blvd

Division 3 Brunswick County Northwest

PLAN DATE: February 2025 EXULT PROJ. NO: 143001

PREPARED BY: SD Wilder REVIEWED BY: WJ Hamilton

REVISIONS: INIT. DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 032396 WILLIAM J. HAMILTON

DocuSign 20100856527443 02/04/2025

SIGNATURE DATE

SIG. INVENTORY NO. 03-1238

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North Carolina Department of Transportation
 Division of Signal Management

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