

(remove jumpers and set switches as shown)

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

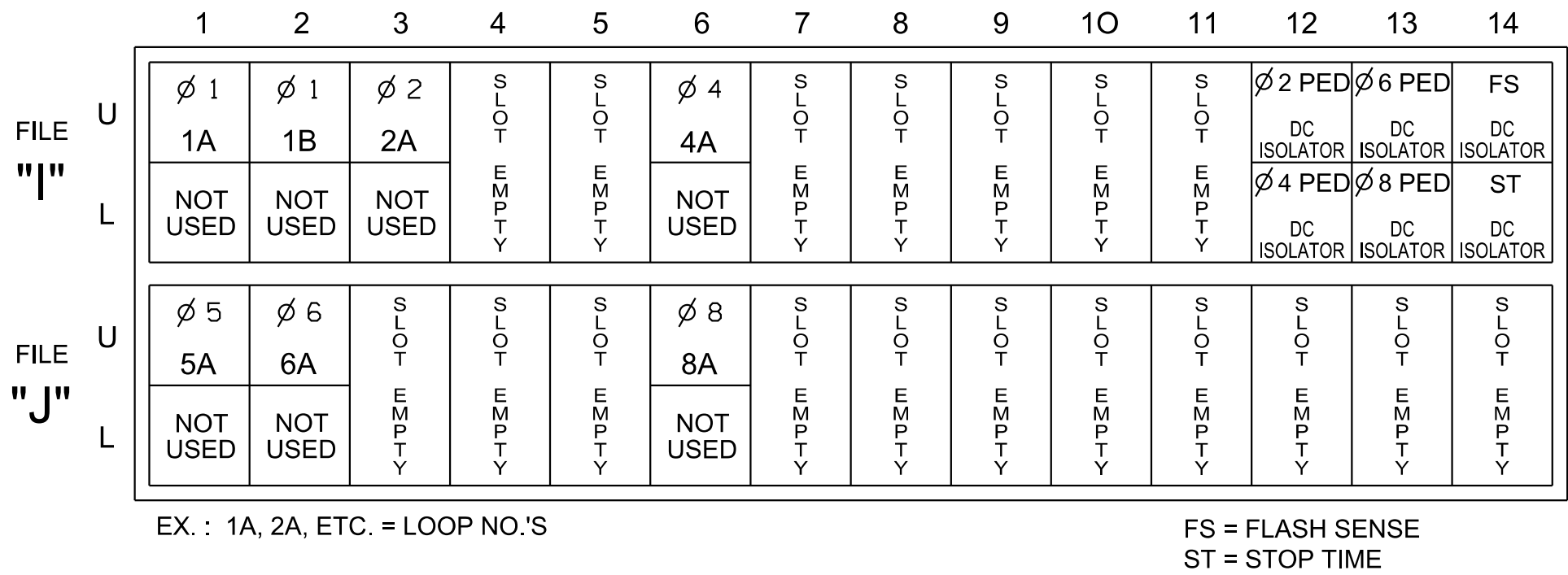
EQUIPMENT INFORMATION

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, S11, S12, AUX S1, AUX S2, AUX S3, AUX S4
Phases Used.....	1, 2, 2 PED, 4, 4PED, 5, 6, 6PED, 8, 8 PED
Overlap "1".....	*
Overlap "2".....	*
Overlap "3".....	*
Overlap "4".....	NOT USED
Overlap "5".....	*
Overlap "6".....	NOT USED
Overlap "7".....	*

*See overlap programming detail on sheet 2

INPUT FILE POSITION LAYOUT

(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

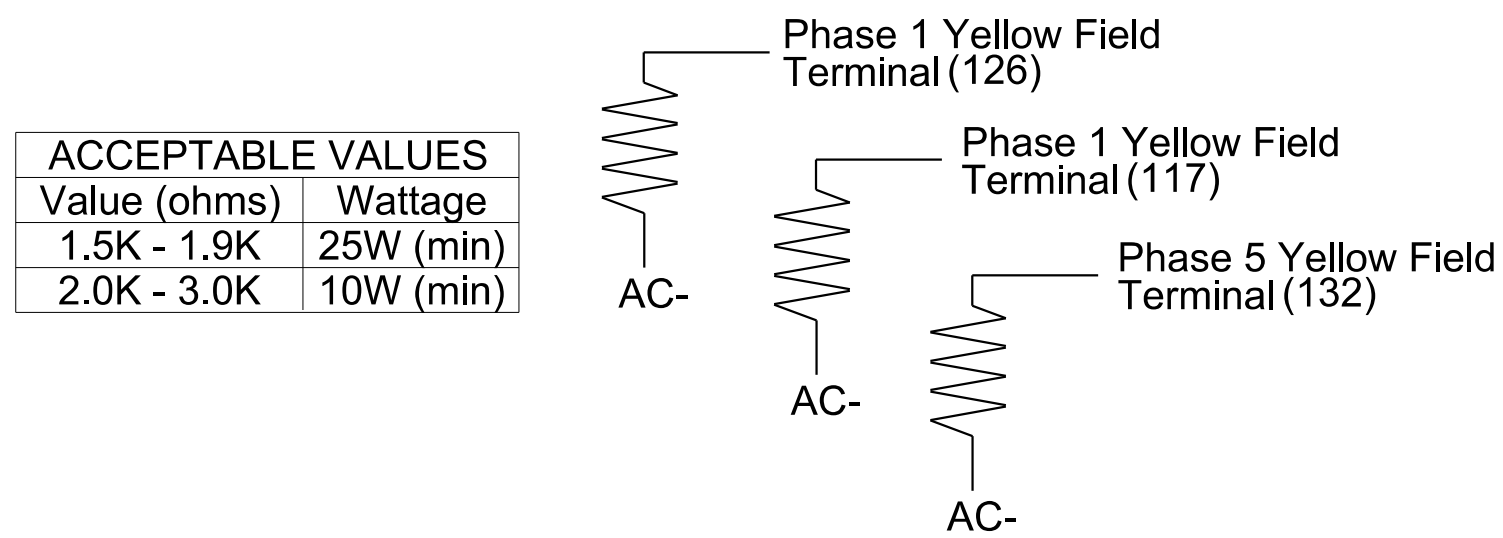
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	TB2-1,2	I1U	56	18 -	1 ★ 29 ★	1 6	15.0 3.0		X X		X X	
1B	TB2-5,6	I2U	39	1	2	1	15.0		X		X	
2A	TB2-9,10	I3U	63	29	4	2			X	X	X	
4A	TB4-9,10	I6U	41	3	8	4	5.0		X		X	
5A	TB3-1,2	J1U	55	17 -	15 ★ 31 ★	5 2	15.0 3.0		X X		X X	
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
8A	TB5-9,10	J6U	42	4	22	8	3.0		X		X	
PED PUSH BUTTONS												
P21:P22	TB8-4,6	I12U	67	33	2	PED 2						
P41:P42	TB8-5,6	I12L	69	35	4	PED 4						
P61:P62	TB8-7,9	I13U	68	34	6	PED 6						
P81:P82	TB8-8,9	I13L	70	36	8	PED 8						

NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
I12 AND I13.

★ 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)



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	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	OL7	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	OL5	OL3	OL4	SPARE
SIGNAL HEAD NO.	11★	21,22,23	P21, P22	83★	41,42	P41, P42	51★	61,62,64	P61, P62	NU	81,82	P81, P82	11★	83★	63★	51★	NU	NU
RED	-	128	-	-	101	-	-	134	-	-	107	-	-	A124	A111	-	-	-
YELLOW	★	129	-	★	102	-	★	135	-	-	108	-	-	-	-	-	-	-
GREEN	-	130	-	-	103	-	-	136	-	-	109	-	-	-	-	-	-	-
RED ARROW	-	-	-	-	-	-	-	-	-	-	-	-	A121	-	-	A114	-	-
YELLOW ARROW	-	-	-	-	-	-	-	-	-	-	-	-	A122	A125	A112	A115	-	-
FLASHING YELLOW ARROW	-	-	-	-	-	-	-	-	-	-	-	-	A123	A126	A113	A116	-	-
GREEN ARROW	127	-	-	118	-	-	133	-	-	-	-	-	-	-	-	-	-	-
	-	-	113	-	-	104	-	-	119	-	-	110	-	-	-	-	-	-
	-	-	115	-	-	106	-	-	121	-	-	112	-	-	-	-	-	-

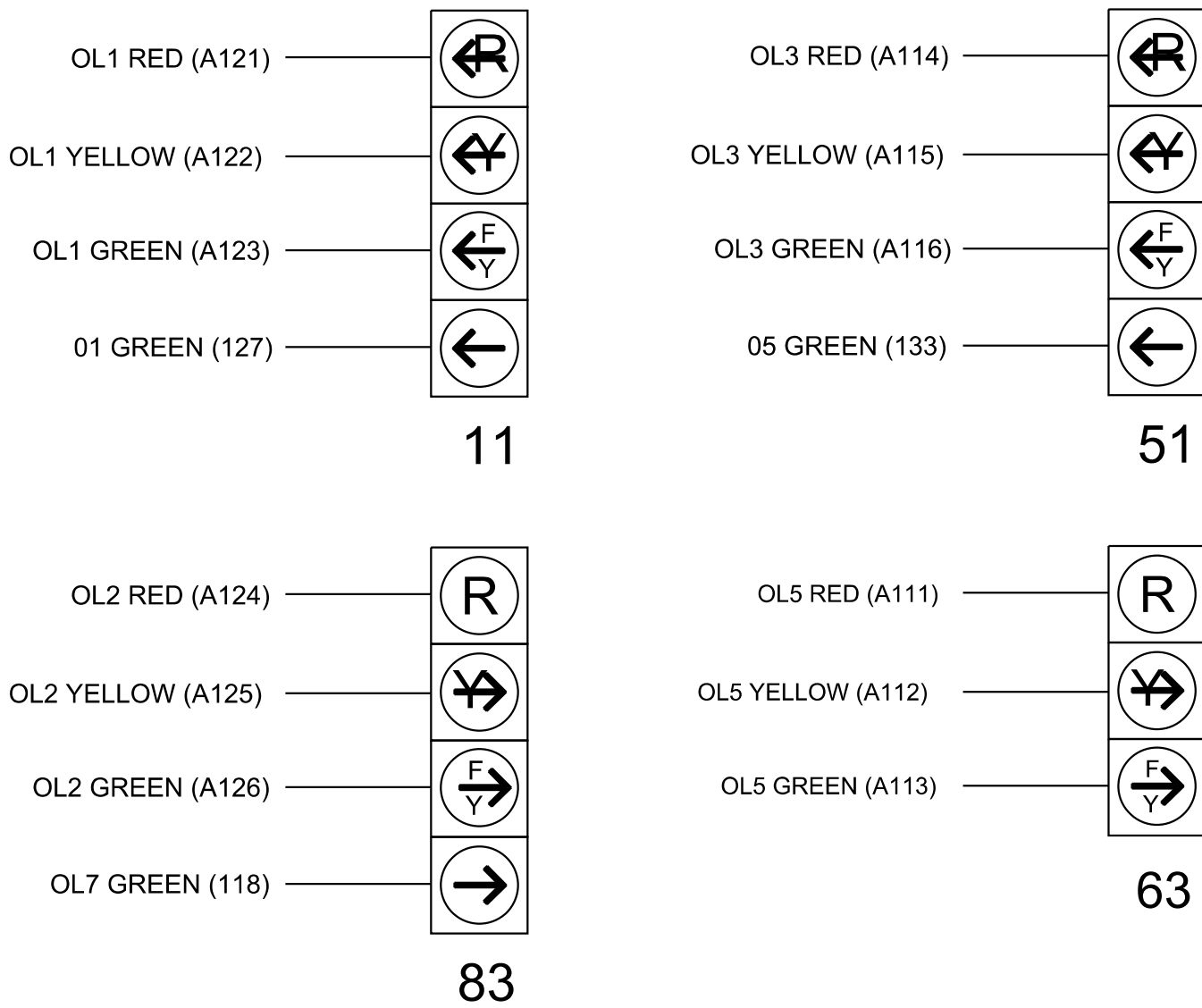
NU = Not Used

* 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)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 09-0482
DESIGNED: August 2024
SEALED: 07/14/2025
REVISED: N/A

Electrical Detail - Final Design
Sheet 1 of 3

**DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED**

SEAL

Big Mill Farm Road /
Sr 2649 (Hopkins Road) at
Bluff School Road

Division 9 Forsyth County Kernersville

PLAN DATE: August 2024

REVIEWED BY: KP Baumann

PREPARED BY: CF Davis

REVIEWED BY:

REVISIONS

IT.	DATE
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SDCT09A86BCB447... 7/14/2025

SIG. INVENTORY NO. 09-0482