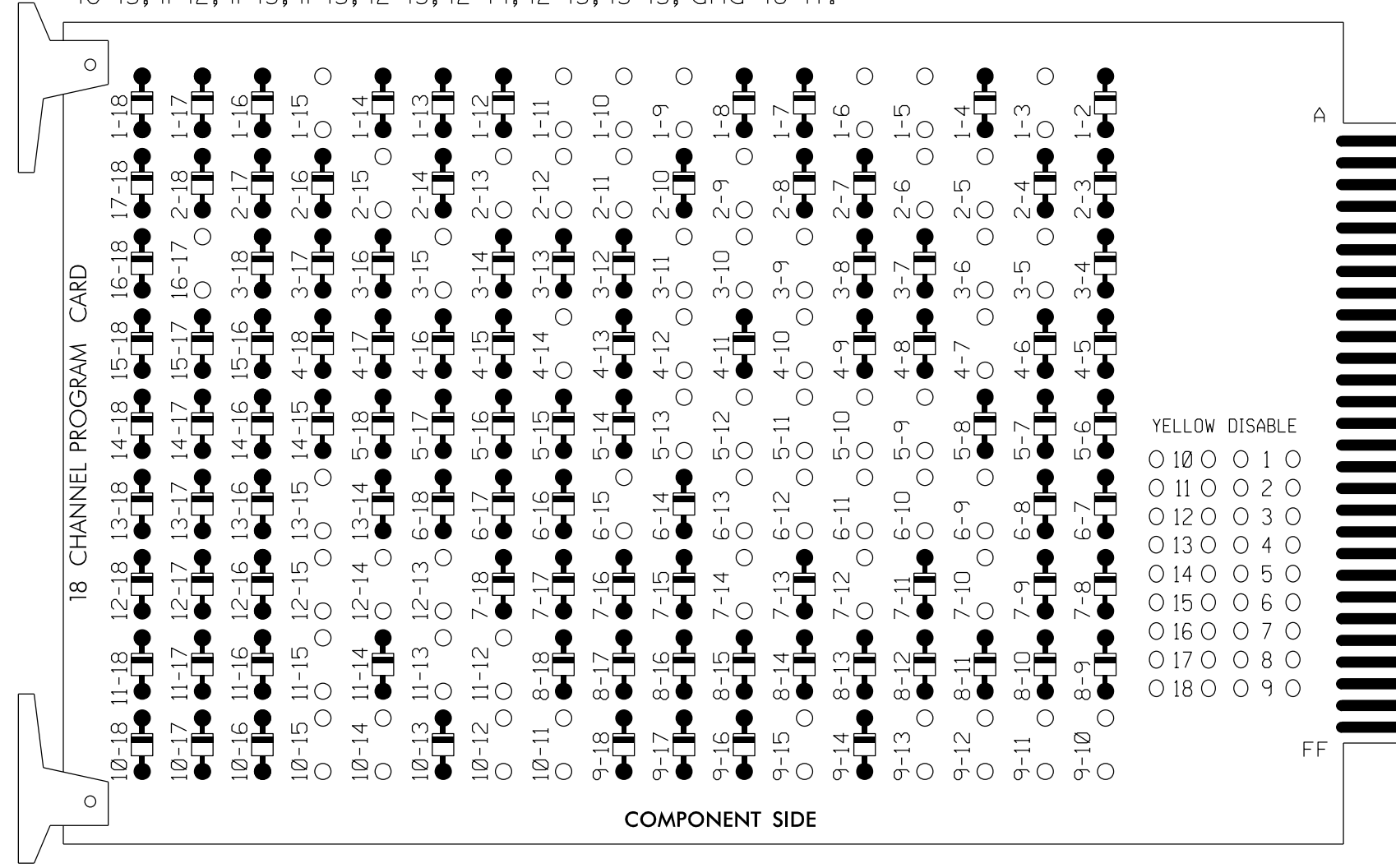


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-5, 1-6, 1-9, 1-10, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-12, 2-13, 2-15, 3-5, 3-6, 3-9, 3-10, 3-11, 3-15, 4-7, 4-10, 4-12, 4-14, 5-9, 5-10, 5-11, 5-12, 5-13, 6-9, 6-10, 6-11, 6-12, 6-13, 6-15, 7-10, 7-12, 7-14, 9-10, 9-11, 9-12, 9-13, 9-15, 10-11, 10-12, 10-14, 10-15, 11-12, 11-13, 11-15, 12-13, 12-14, 12-15, 13-15, and 16-17.



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 Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. part 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 Plans.
- Program controller to start up in phase 2 Walk and 6 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 US 129 - NC 143 Closed Loop System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S12,
 AUX S1,AUX S2,AUX S3,AUX S4,AUX S5
 PHASES USED.....1,2,2 PED,3,3 PED,4,4 PED,5,6,
 6 PED
 OVERLAP "A".....*
 OVERLAP "B".....*
 OVERLAP "C".....*
 OVERLAP "D".....*
 OVERLAP "E".....*
 OVERLAP "G".....*
 OVERLAP "H".....*
 * See overlap programming detail on sheet 2

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	OLG	4	4 PED	5	6	6 PED	OLH	8	3 PED	OLA	OLB	OLE	OLC	OLD	SPARE			
SIGNAL HEAD NO.	11	21,22	P21, P22	43	41	42	P41, P42	51	61,62	P61, P62	23	NU	P31, P32	11	43	31	32	51	23		
RED		128			101	101				134						A124	A111	A111		A101	
YELLOW	*	129		*	102	102		*	135		*					A112	A112				
GREEN		130			103	103			136							A113	A113				
RED ARROW																A121				A114	
YELLOW ARROW																A122	A125			A115	A102
FLASHING YELLOW ARROW																A123	A126			A116	A103
GREEN ARROW	127			118	103			133			124					A113					
Hand				113				104			119										
Walking				115				106			121										

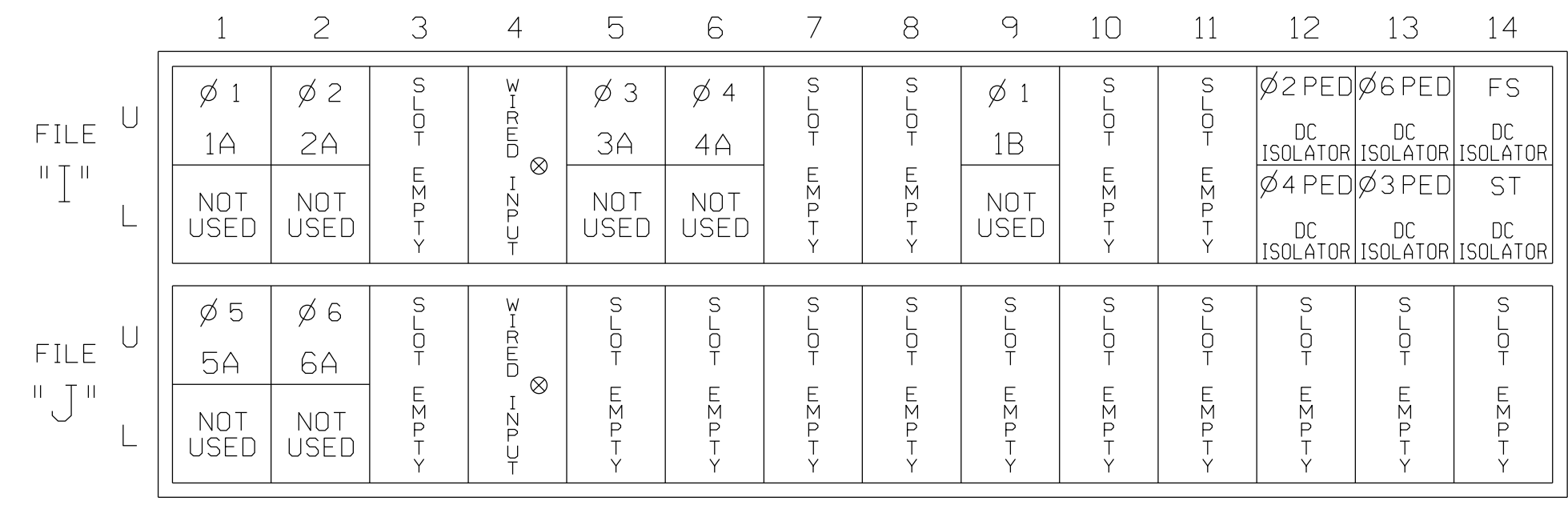
NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

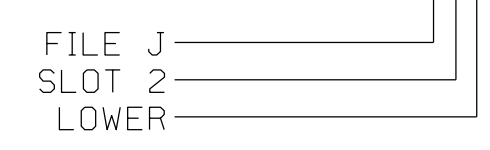
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A ¹	TB2-1,2	I1U	56	1 ★	1	YES		15		N
	-	J4U	48	26 ★	6	YES				N
1B	TB6-9,10	I9U	60	11	1	YES		15		N
	2A	TB2-5,6	I2U	39	2	YES				N
3A	TB4-5,6	I5U	58	3	3	YES		10		N
	4A	TB4-9,10	I6U	41	4	YES		3		N
5A ²	TB3-1,2	J1U	55	5 ★	5	YES		15		N
	-	I4U	47	22 ★	2	YES				N
6A	TB3-5,6	J2U	40	6	6	YES				N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					

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

- Add jumper from I1-W to J4-W, on rear of input file.
- Add jumper from J1-W to I4-W, on rear of input file.

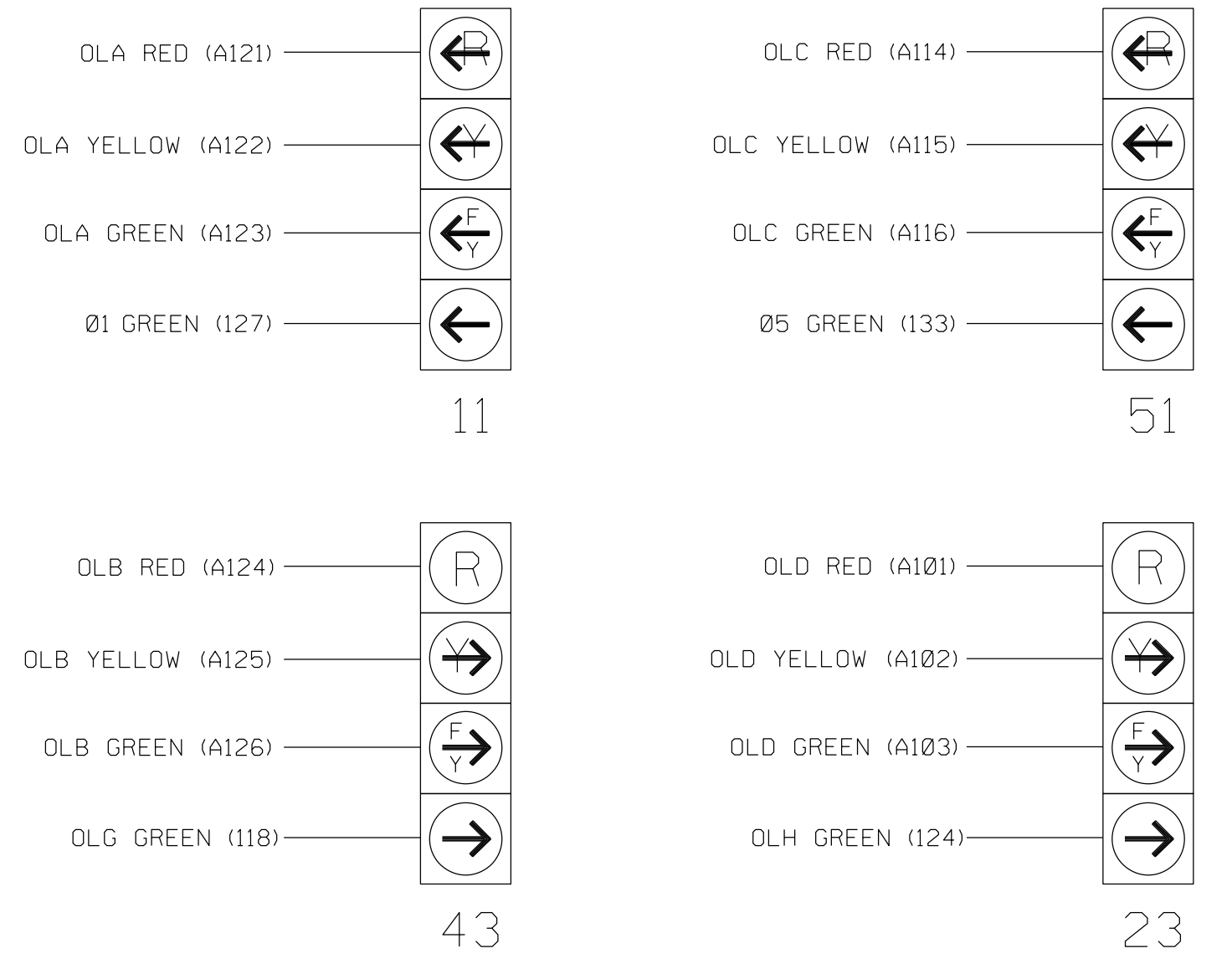
★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 3.

INPUT FILE POSITION LEGEND: J2L



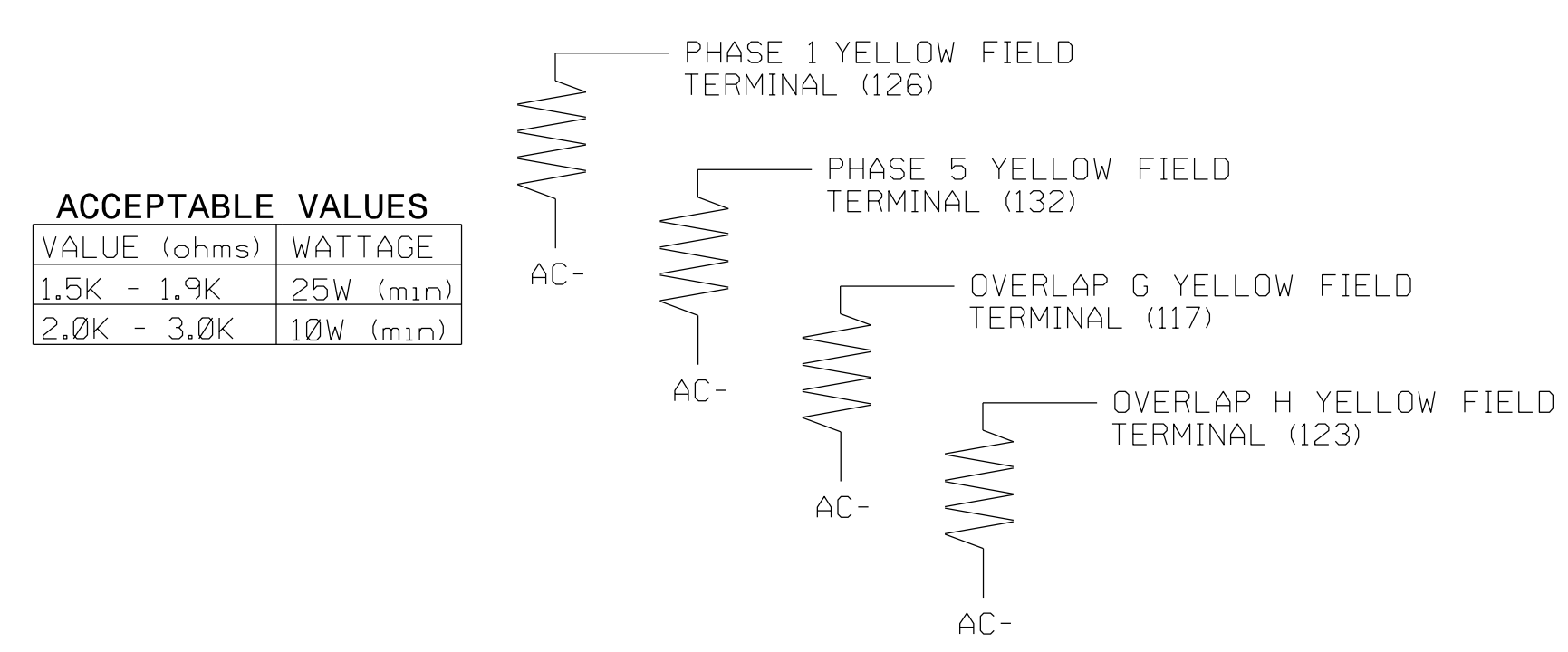
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 14-0750
 DESIGNED: May 2022
 SEALED: 05/10/2022
 REVISED: N/A

Electrical Detail - Sheet 1 of 4

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: 750 N. Greenfield Pkwy, Garner, NC 27529	US 129 at NC 143 (Sweetwater Road) / Kerr Drug Entrance		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033108 JIAN XIN MA
	Division 14 PLAN DATE: May 2022 PREPARED BY: M.L. Styles	Graham County REVIEWED BY: J. Ma REVIEWED BY:	
REVISIONS:			DATE:

DocuSigned by: 5/10/2022
 827E1953091444F DATE
 SIG. INVENTORY NO. 14-0750