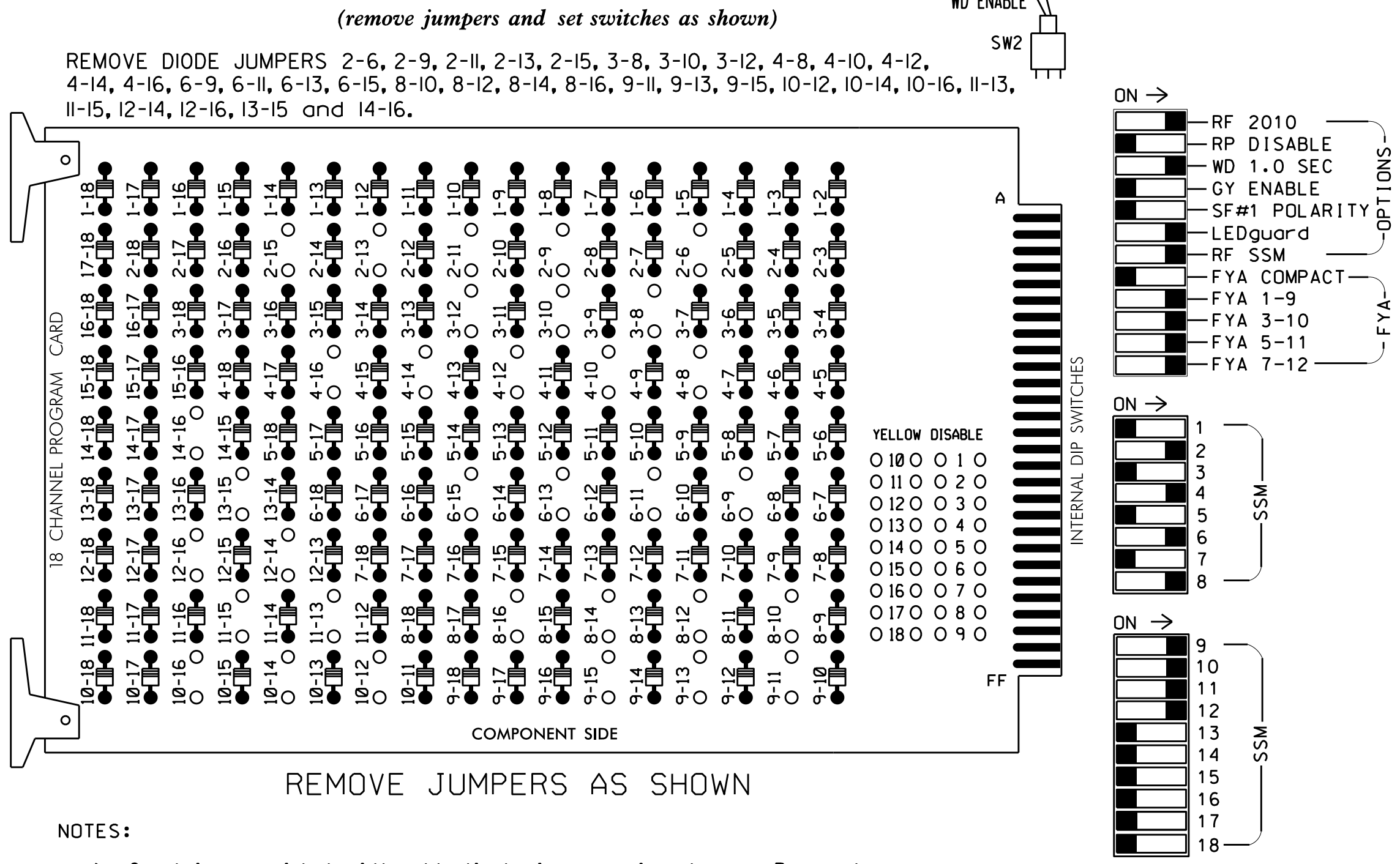


EDI MODEL 2018ECL-NC CONFLICT MONITOR

PROGRAMMING DETAIL



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. Verify that signal heads flash in accordance with the signal plans.
- Program controller to Start Up in phases 2 and 6 green.
- Set power-up flash time to 0 seconds within the controller programming. The conflict monitor will govern startup flash. Ensure STARTUP "RED START" is set to 0 seconds.
- Enable Simultaneous Gap-Out feature for all phases.
- Program all timing information into phase banks 1, 2, and 3 unless otherwise noted.
- Set phase bank 3 maximum limit to 250 seconds for phases used.
- Program phases 4 and 8 for Double Entry.
- Ensure start up flash phases are coordinated with flash program block assignments.
- Program Startup Ped Calls for phases 2, 4, 6, and 8.
- Set the Red Revert interval on the controller to 1 second.
- This cabinet and controller are part of the Durham Signal System.

SIGNAL HEAD HOOK-UP CHART

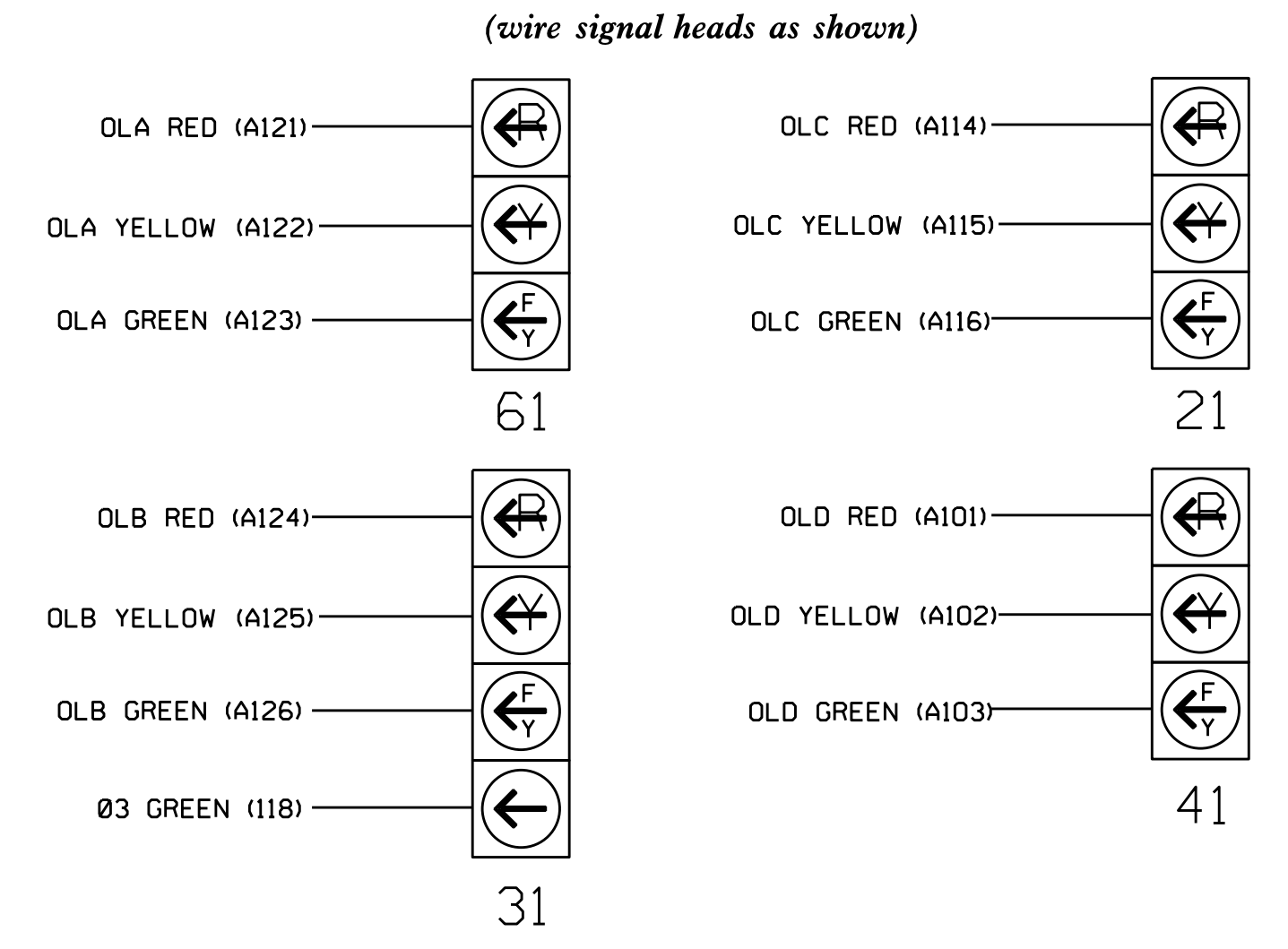
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	22,23	P21, P22	31	42,43	P41, P42	NU	62,63	P61, P62	NU	81,82	P81, P82	61	31	NU	21	41	NU
RED		128			101			134			107							
YELLOW		129		*	102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121	A124		A114	A101	
YELLOW ARROW													A122	A125		A115	A102	
FLASHING YELLOW ARROW													A123	A126		A116	A103	
GREEN ARROW					118													
Hand				113			104		119			110						
Person				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 below.

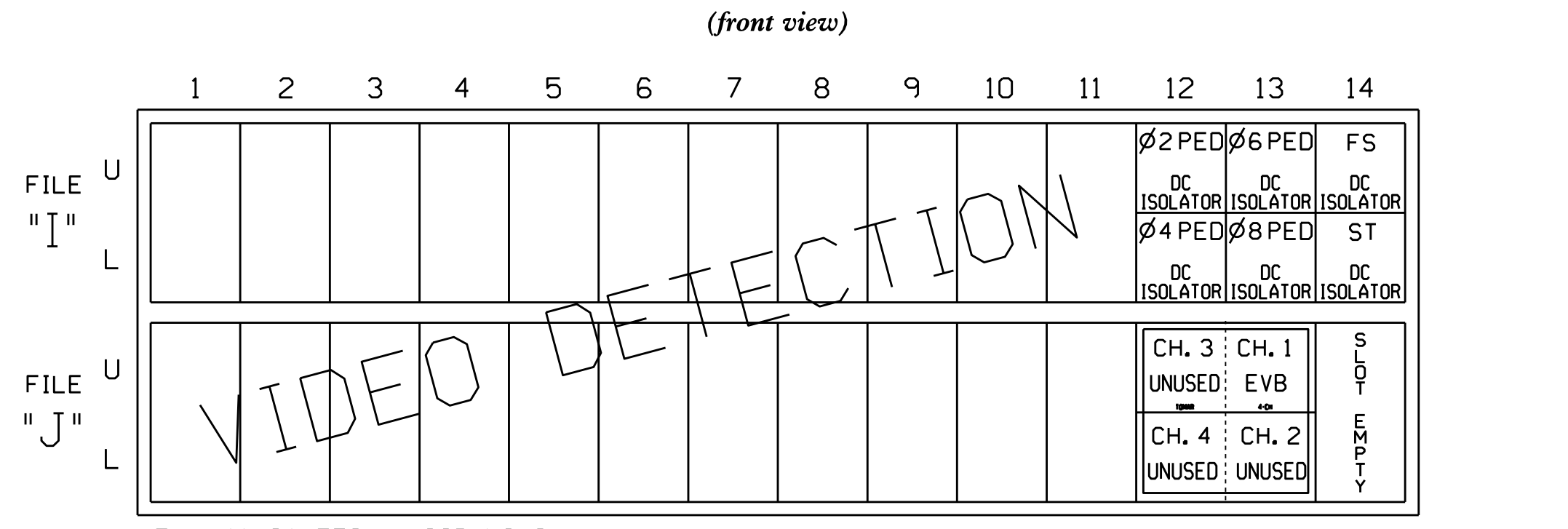
EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....McCAIN 2033
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX FILE
 LOAD SWITCHES USED.....S2,S3,S4,S5,S6,S8,S9,S11,S12,
 AUX S1,AUX S2,AUX S4,AUX S5
 PHASES USED.....2,3,4,6,8,2 PED,4 PED,6 PED,8 PED
 OVERLAP 1.....2
 OVERLAP 2.....*
 OVERLAP 3.....6
 OVERLAP 4.....8
 * See FYA PPLT Programming Detail on Sheet 2.

4 SECTION FYA PPLT SIGNAL WIRING DETAIL



INPUT FILE POSITION LAYOUT



INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
Ø2 PED	Ø6 PED	FS				
DC ISOLATOR	DC ISOLATOR	DC ISOLATOR				
Ø4 PED	Ø8 PED	ST				
DC ISOLATOR	DC ISOLATOR	DC ISOLATOR				
CH. 3	CH. 1	STOP				
UNUSED	EVb					
CH. 4	CH. 2	EMPTY				
UNUSED	UNUSED					
P21,P22	TB8-4,6	I12U	25	67	2	2 PED
P41,P42	TB8-5,6	I12L	27	69	2	4 PED
P61,P62	TB8-7,9	I13U	26	68	2	6 PED
P81,P82	TB8-8,9	I13L	28	70	2	8 PED

NOTE: PROGRAM DETECTOR DELAY AND CARRYOVER TIMES AS SPECIFIED ON SIGNAL DESIGN PLANS.

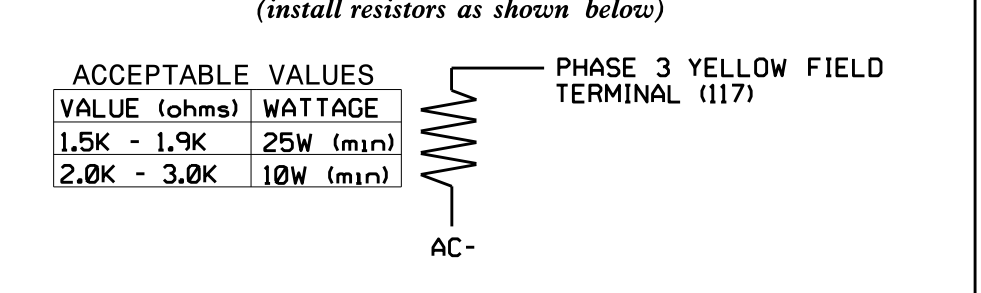
INPUT FILE POSITION LEGEND: J2L
 FILE J
 SLOT 2
 LOWER

DETECTOR ATTRIBUTES LEGEND:
 1-FULL TIME DELAY
 2-PED CALL
 3-RESERVED
 4-COUNTING
 5-EXTENSION
 6-TYPE 3
 7-CALLING
 8-ALTERNATE

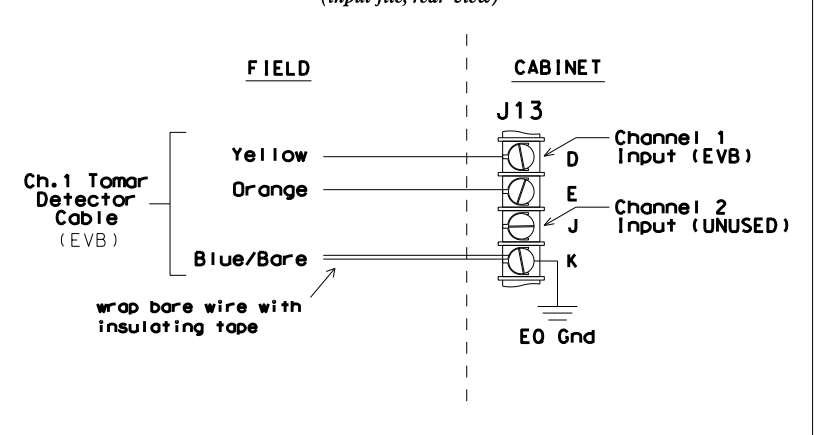
SPECIAL DETECTOR NOTE

Install a video 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.

LOAD RESISTOR INSTALLATION DETAIL



TYPICAL TOMAR FIELD WIRE DETAIL



Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For: NC 55 (South/North Alston Avenue) at E. Main St.

Prepared In the Offices of: Transporatio Mobility and Safety Solutions, Inc. (Professional Engineer Seal: JOHN T. ROWE, JR., 008453)

PLAN DATE: November 2014 REVIEWED BY: JTR
 PREPARED BY: James Peterson REVIEWED BY:

750 N. Greenfield Pkwy, Garner, NC 27529

DocuSigned by: John T. Rowe, Jr. 4/2/2015

SIG. INVENTORY NO. 05-1030T1

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