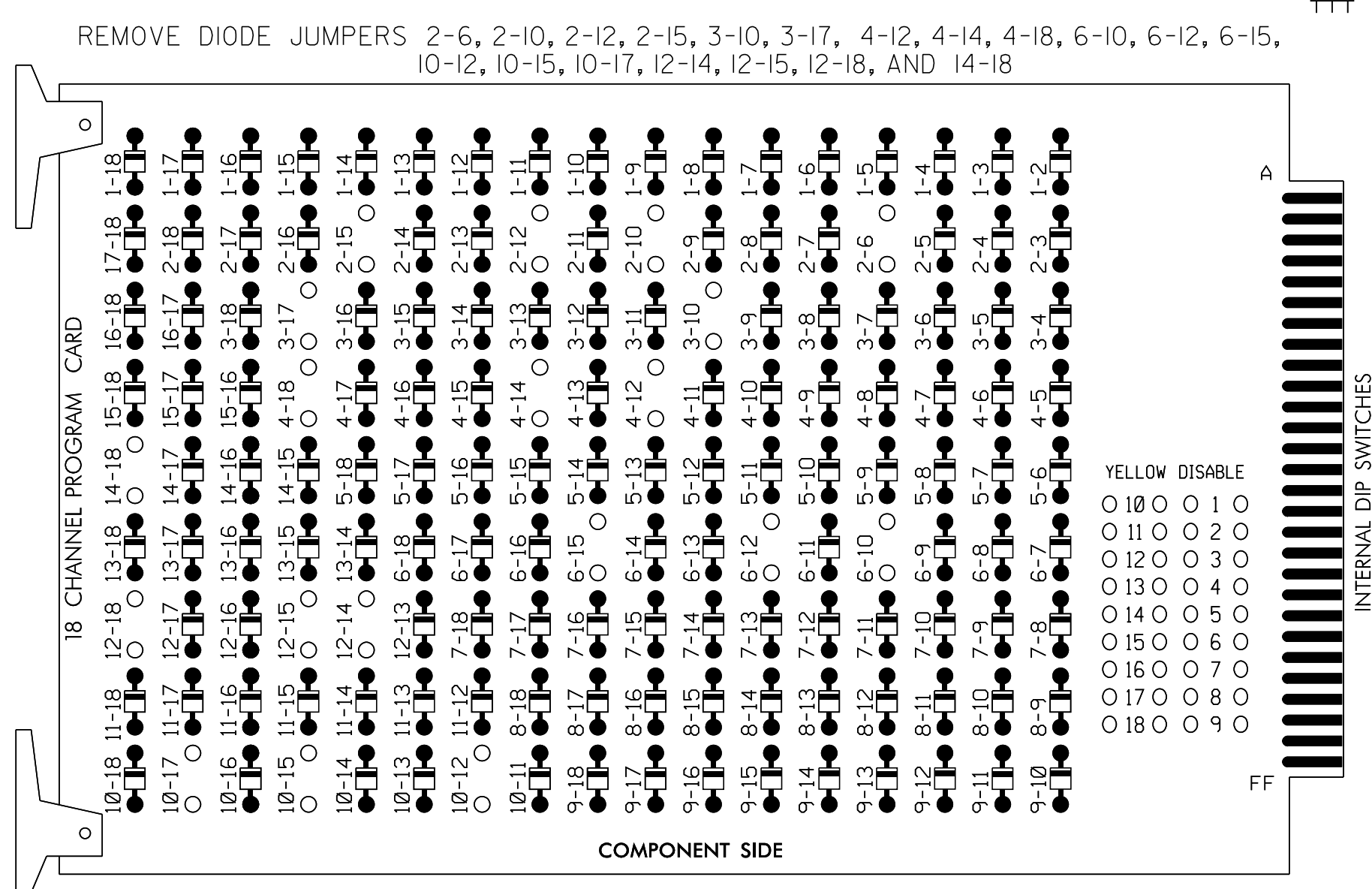


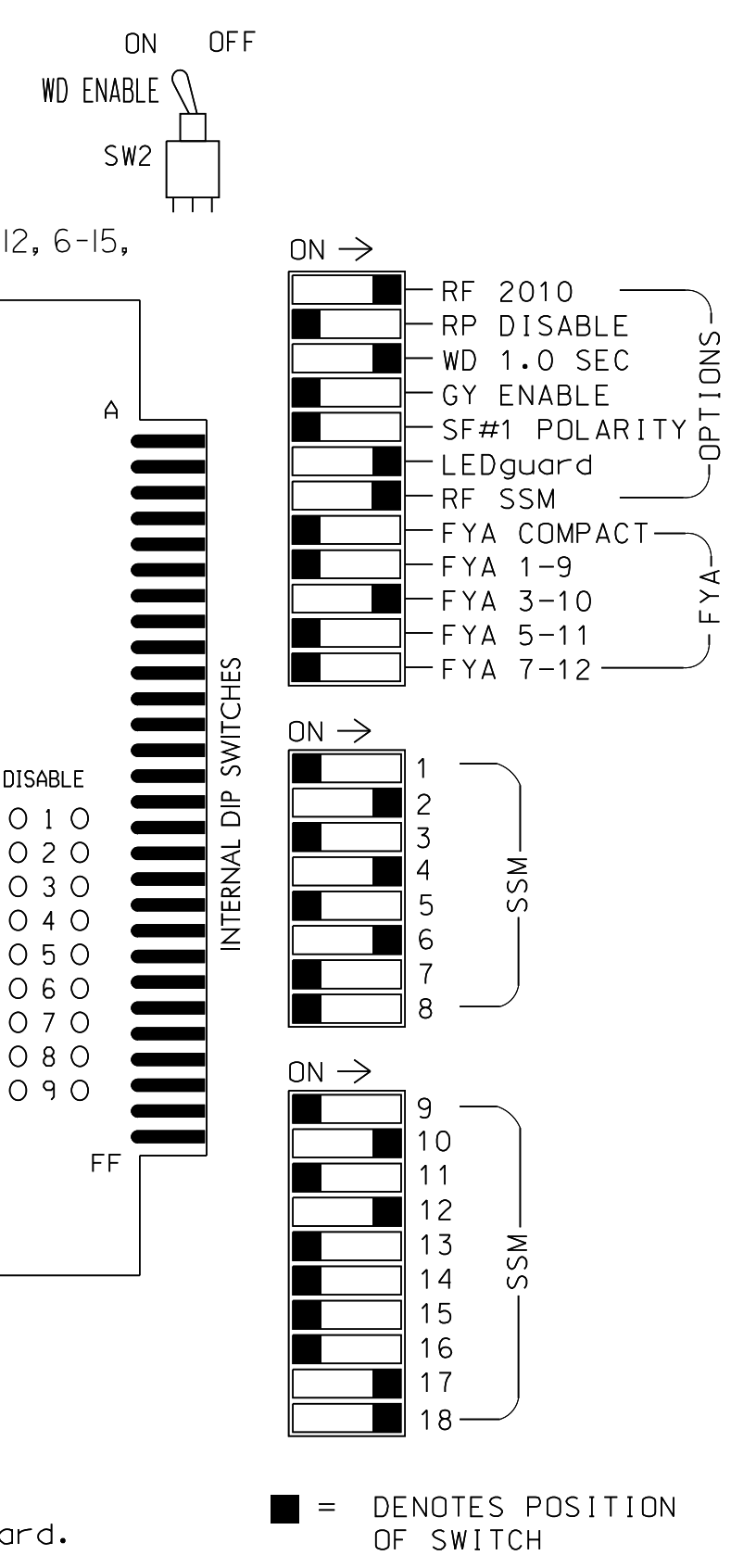
18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches 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.
- Integrate monitor with Ethernet network in cabinet.



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.
- Return controller to Factory Defaults before programming per this electrical detail.
- Program controller to start up in phase 2 Green and phase 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 11018 Cornelius Signal System.

NOTE THAT PHASE 6 DOES NOT START IN WALK!

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.....S2,S4,S5,S6,S8,
 S9, AUX S2, AUX S3,
 AUX S5, AUX S6

PHASES USED.....2,4,4PED,
 6,6PED

OVERLAP "A".....NOT USED
 OVERLAP "B".....*
 OVERLAP "C".....NOT USED
 OVERLAP "D".....*
 OVERLAP "E".....*
 OVERLAP "F".....*
 OVERLAP "G".....*

* 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	7	8	8 PED	OLA	OLB	OLE	OLC	OLD	OLF		
SIGNAL HEAD NO.	NU	21,22	NU	63	41	42	43,45	P41, P42	NU	61, 62,64	P61, P62	NU	NU	NU	63	31	32,33	NU	23, 24,25	44
RED		128			101	101			134						A124	A111	A111		A101	A104
YELLOW		129		*	102	102			135						A112	A112				
GREEN		130			103	103			136						A113	A113				
RED ARROW					101															
YELLOW ARROW					102										A125				A102	A105
FLASHING YELLOW ARROW															A126					A106
GREEN ARROW					118	103	103									A113				A103
Hand								104		119										
Walker								106		121										

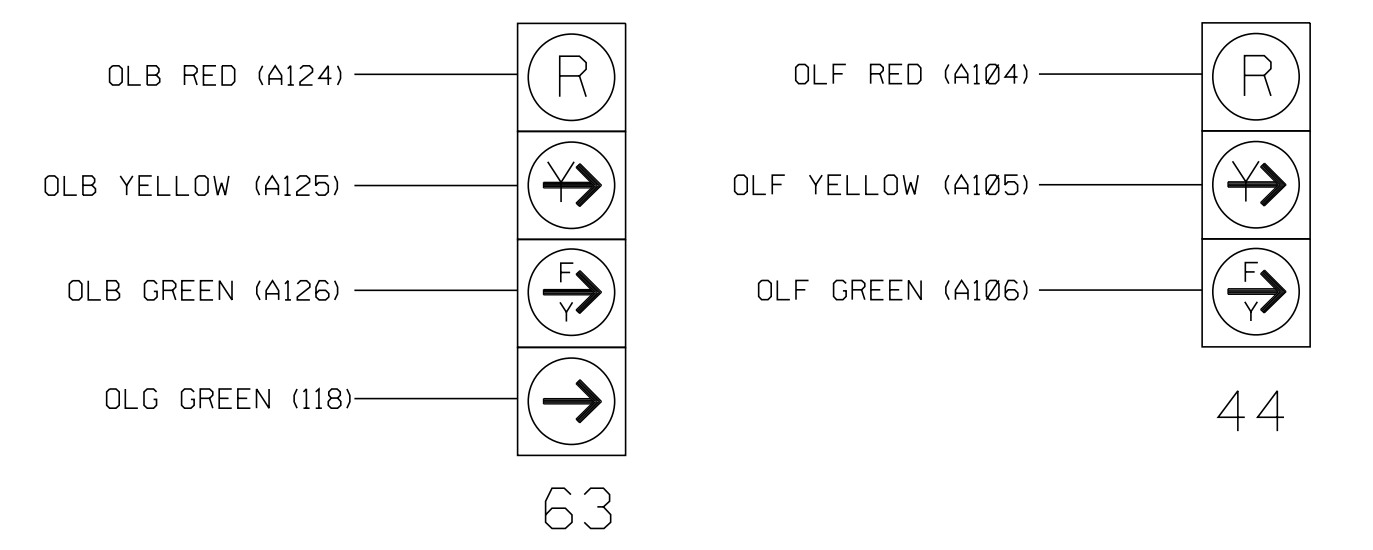
NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

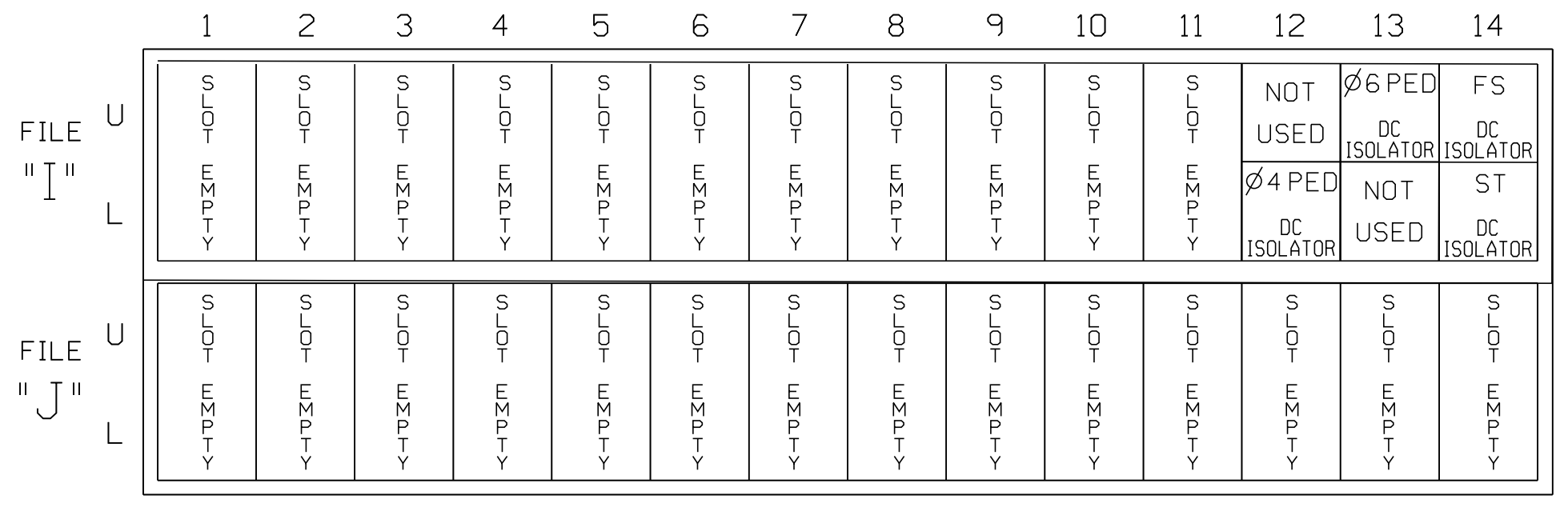
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

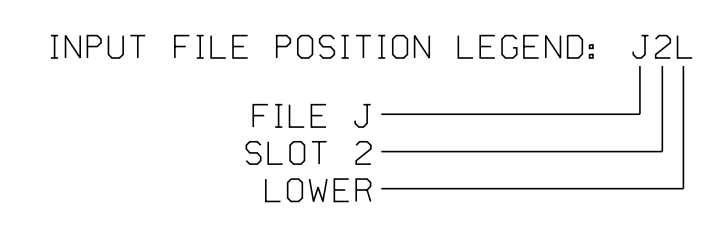
(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

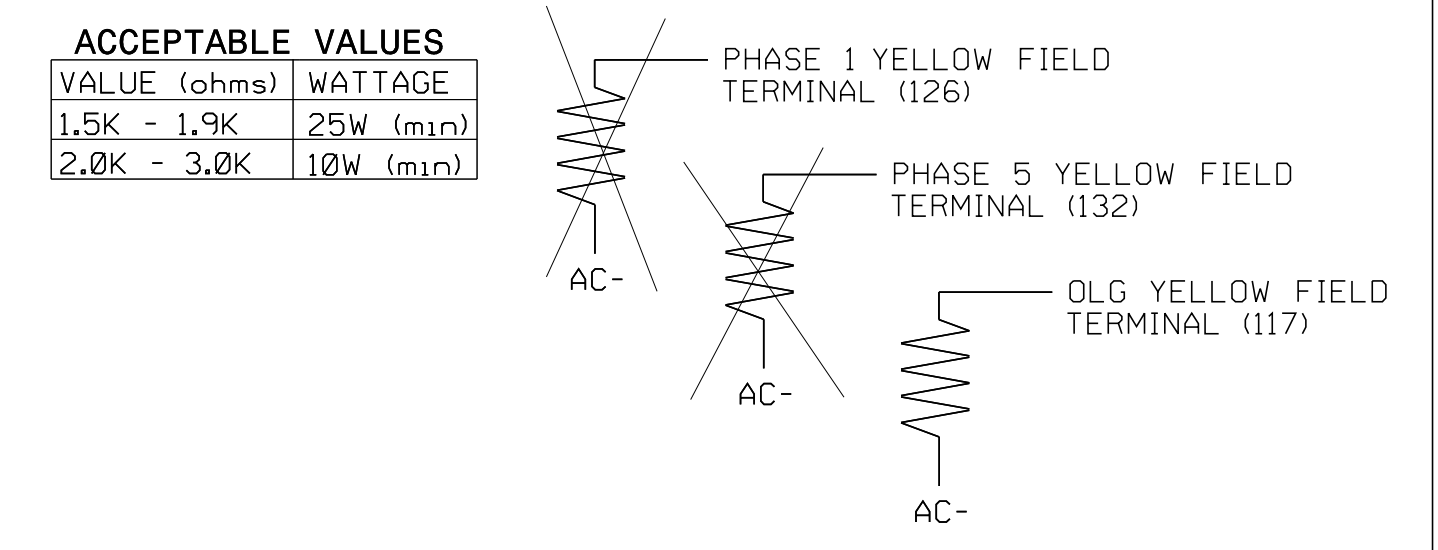
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
PED PUSH BUTTONS											
P41,P42	TB8-5,6	I12L	69	31	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

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



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



If present, remove load resistor PHASE 1 YELLOW FIELD TERMINAL (126) and PHASE 5 YELLOW FIELD TERMINAL (132)

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.

This plan supersedes the electrical plan signed and sealed by Steven G. Haynie, PE on 05/31/2022.

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: 10-0885T3
 DESIGNED: February 2023
 SEALED: February 21, 2023
 REVISED: N/A

Temporary Signal 3 - TCP Phase 3A
 Electrical Detail - Sheet 1 of 2

Prepared for the Offices of:

US 21 (Catawba Avenue) /
 Catawba Avenue at
 US 21 (Statesville Road) /
 Holiday Lane
 Division 10 Mecklenburg County Cornelius

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEVEN G. HAYNIE
 029531

DocuSigned by:
 Steven G. Haynie 3/8/2023

PLAN DATE: March 2023 REVIEWED BY: V. Kaiser
 PREPARED BY: S.G. Haynie REVIEWED BY:

REVISIONS INIT. DATE

DESIGN NUMBER: DATE

DocuSign Inventory No. 10-0885T3

