= DENOTES POSITION OF SWITCH

#### REMOVE JUMPERS AS SHOWN

#### 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. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

5. Special cabinet wiring is required to utilize FYA COMPACT mode. See Ped Yellow Conflict Monitor Wiring Detail on this sheet. 6. Install jumper to SEL15 position.

# NOTES

- 1. 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.
- 2. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- 3. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- 4. The cabinet and controller are part of a temporary Time Based Coordination System.

### **EQUIPMENT INFORMATION**

Controller	2070LX
Cabinet	336
Software	.Q-Free MAXTIME
Cabinet Mount	Pole
Output File Positions	.12
Load Switches Used	S2, S5, S7, S8, S9
Phases Used	2, 4, 5, 6
Overlap "1"	NOT USED
Overlap "2"	NOT USED
Overlap "3"	*
Overlap "4"	NOT USED
•	

<sup>\*</sup>See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART													
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S	9	S10	S11	S12
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	11	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	OL3	6	5 GRN	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	<b>★</b> 51	61,62	<b>★</b> 51	NU	NU	NU	NU
RED	٠	128			101			134					
YELLOW	·	129			102			135					
GREEN		130			103			136					
RED ARROW							131				·	·	
YELLOW ARROW							132						

ROJECT REFERENCE NO.

|Sig. 12.

NU = Not Used

FLASHING

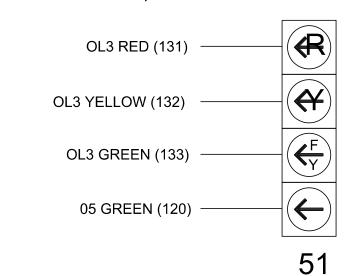
YELLOW ARROW 133

120

\*

#### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE	E VALUES
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)
	•

Phase 6 WALK Field Terminal (121)

THIS ELECTRICAL DETAIL IS FOR REVISED: \_\_\_\_\_

Temporary Signal 1 - TCP Phase IV

Prepared for the Offices of: PLAN DATE: April 2023 PREPARED BY: S.G. Haynie

NC 280 (Asheville Highway) SR 1511 (Deavor Road) Forest Gate Drive

Transvlvania County REVIEWED BY:

V. Kaiser REVIEWED BY: REVISIONS

THE SIGNAL DESIGN: 14-1146T1 DESIGNED: April 2023 SEALED: April 28, 2023

Electrical Detail Sheet 1 of 2

Electrical and Programming Details For:

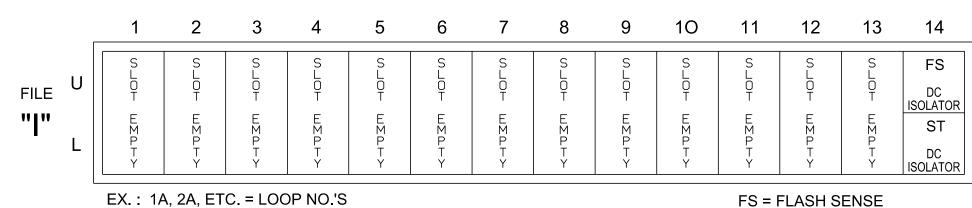
029531 Steven G. Haynie 4/28/2023 SIG. INVENTORY NO. 14-1146T1

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL
SIGNATURES COMPLETED

#### INPUT FILE POSITION LAYOUT

(front view)



### SPECIAL DETECTOR NOTE

Install a multi-zone 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.

ST = STOP TIME

## PED YELLOW CONFLICT MONITOR WIRING DETAIL

(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode with the 16 or 18 Channel Monitor, the cabinet must be wired such that the (unused) Ped Yellow load switch outputs are wired to the conflict monitor as follows: From 6 PY (field term. 120) to chan. 10 green (monitor pin R).

Follow the instructions below to make appropriate connections:

STEP 1: Fold down rear panel of output file.

Find unused wiring harness fom conflict monitor card edge STEP 2: connector (which should be tied and bundled together).

STEP 3: Find the connector that correspond to the following conflict monitor card edge pins and solder wire the the appropiate

terminal on the rear of the output file shown below:

CMU-R -----6PY (term. 120)

Some cabinet manufacturers use keyed connectors to accomplish this wiring configuration. If connectors are used, fold down the rear panel of the output file and find the set of 3 keyed connectors and connect them as shown below:

1 - 2PY	 1- CMU-13	
2 - 4PY	2- CMU-16	
	3- CMU-R	
4 - 8PY	 4- CMU-U	

CHARLOTTE, NC 28203 (704) 752-0610

<sup>\*</sup>Denotes install load resistor. See load resistor installation detail this sheet.

<sup>★</sup>See pictorial of head wiring in detail this sheet.