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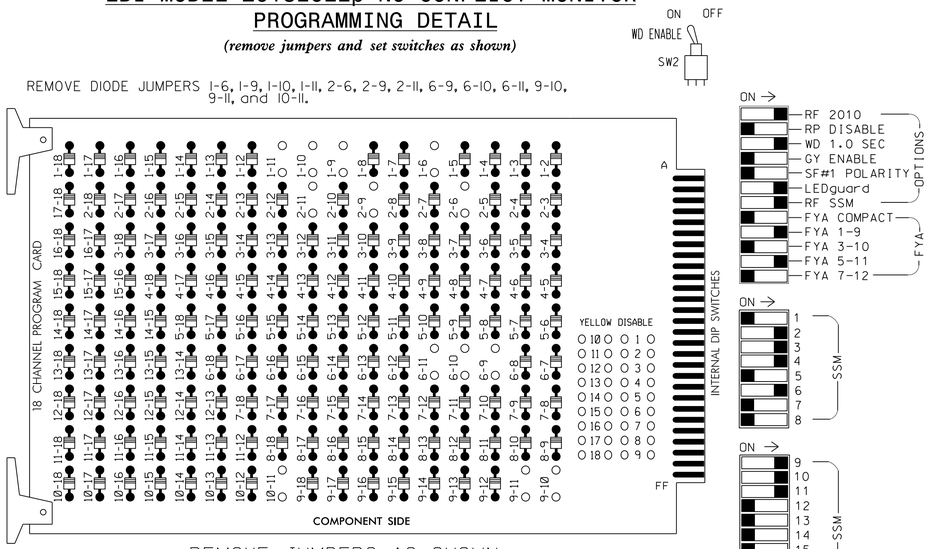
PROJECT REFERENCE NO.	SHEET NO.
U-5719	SIG-2.1

EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-6, 1-9, 1-10, 1-11, 2-6, 2-9, 2-11, 6-9, 6-10, 6-11, 9-10, 9-11, and 10-11.



REMOVE JUMPERS AS SHOWN

■ = DENOTES POSITION OF SWITCH

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 Red Enable is active at all times during normal operation.
4. Integrate monitor with existing Ethernet network in cabinet.

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 Plans.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for volume density operation.
4. Program controller to start up in phase 2 Green and 6 Green.
5. The cabinet and controller are part of the Jacksonville 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	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11★	22,23	NU	31	32,33	41	42	NU	NU	61,62	NU	NU	NU	NU	11★	33	NU	21★	NU	NU
RED		128		116	116	101	101			134						✳				
YELLOW	✳	129		117	117	102	102			135										
GREEN		130		118	118	103	103			136										
RED ARROW															A121			A114		
YELLOW ARROW															A122	A125		A115		
FLASHING YELLOW ARROW															A123			A116		
GREEN ARROW	127			118		103										A126				

NU = Not Used

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

★ See pictorial of head wiring in detail below.

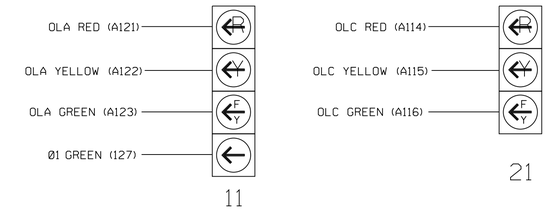
EQUIPMENT INFORMATION

CONTROLLER.....2070E
CABINET .....332 W/ AUX
SOFTWARE .....ECONOLITE ASC/3-2070
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS..18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S4,S5,S8,AUX S1,AUX S2,AUX S4
PHASES USED.....1,2,3,4,6
OVERLAP "A".....✳
OVERLAP "B".....✳
OVERLAP "C".....✳
OVERLAP "D".....NOT USED

✳ See overlap programming detail on sheet 2

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	Ø1	Ø1	Ø2	SLOT	Ø3	Ø4	SLOT	SLOT	SYS. DET. S1	SLOT	SLOT	SLOT	SLOT	FS DC ISOLATOR
	L	1A NOT USED	1B Ø2	2B Ø2	EMPTY	3A NOT USED	4A Ø4	EMPTY	EMPTY	SYS. DET. S2	EMPTY	EMPTY	EMPTY	EMPTY	ST DC ISOLATOR
FILE "J"	U	SLOT	Ø6	SYS. DET. S5	WIRED INPUT ⊗	SLOT	SLOT	SLOT	SLOT	SYS. DET. S3	SLOT	SLOT	PRE3	SLOT	SLOT
	L	EMPTY	6A Ø6	SYS. DET. S6		EMPTY	EMPTY	EMPTY	EMPTY	SYS. DET. S4	EMPTY	EMPTY	OPTICAL DETECTOR (2-CHAN.) NOT USED	EMPTY	EMPTY

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

FS = FLASH SENSE
ST = STOP TIME
PRE = PREEMPT

⊗ 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	DETECTOR TYPE
	TB2-1,2	I1U	56	1★	1	YES		10	S
1A[1]	-	J4U	48	26★	6	YES		3	G
1B	TB2-5,6	I2U	39	2	1	YES		15	S
2A	TB2-7,8	I2L	43	12	2	YES			N
2B	TB2-9,10	I3U	63	32	2	YES			N
2C	TB2-11,12	I3L	76	42	2	YES		3	G
3A	TB4-5,6	I5U	58	3	3	YES		3	S
4A	TB4-9,10	I6U	41	4	4	YES		3	S
4B	TB4-11,12	I6L	45	14	4	YES		10	S
6A	TB3-5,6	J2U	40	6	6	YES			N
6B	TB3-7,8	J2L	44	16	6	YES			N
✳ S1	TB6-9,10	I9U	60	11	SYS	NO			N
✳ S2	TB6-11,12	I9L	62	13	SYS	NO			N
✳ S3	TB7-9,10	J9U	59	15	SYS	NO			N
✳ S4	TB7-11,12	J9L	61	17	SYS	NO			N
✳ S5	TB3-9,10	J3U	64	36	SYS	NO			N
✳ S6	TB3-11,12	J3L	77	46	SYS	NO			N

[1] Add jumper from I1-W to J4-W, on rear of input file.

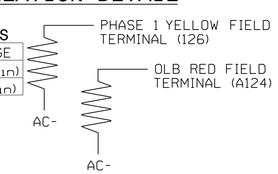
★ See vehicle detector setup programming detail for alternate phasing on sheet 2.

✳ System detector only. Remove any assigned vehicle phase.

LOAD RESISTOR INSTALLATION DETAIL

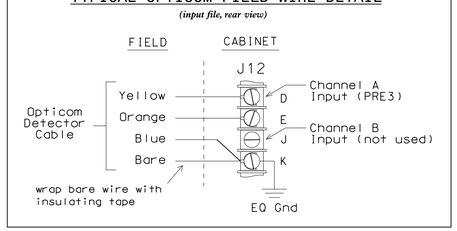
ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



TYPICAL OPTICOM FIELD WIRE DETAIL

(input file, rear view)



INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0123
DESIGNED: March 2017
SEALED: 3/31/2017
REVISED:

PLANS PREPARED BY :
PARSONS
5540 CENTERVIEW DR., SUITE 217
RALEIGH, NORTH CAROLINA 27606
NC LICENSE NO: F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

New Installation

Electrical Detail Sheet 1 of 4

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:
Transportation Mobility and Safety Division
Traffic Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

US 258 - NC 24
at
SR 1396 (Ridge Road)/
SR 1213 (Blue Creek Road)

Division 3 Onslow County Jacksonville

PLAN DATE: March 2017 REVIEWED BY:
PREPARED BY: J. M. Pickens REVIEWED BY:

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 37950 ENGINEER JASON M. PICKENS

Designed by: Jason M. Pickens 3/31/2017
DOCUSIGNED SIGNATURE DATE

SIG. INVENTORY NO. 03-0123

31-MAR-2017 08:12
$$$$USERNAME$$$$