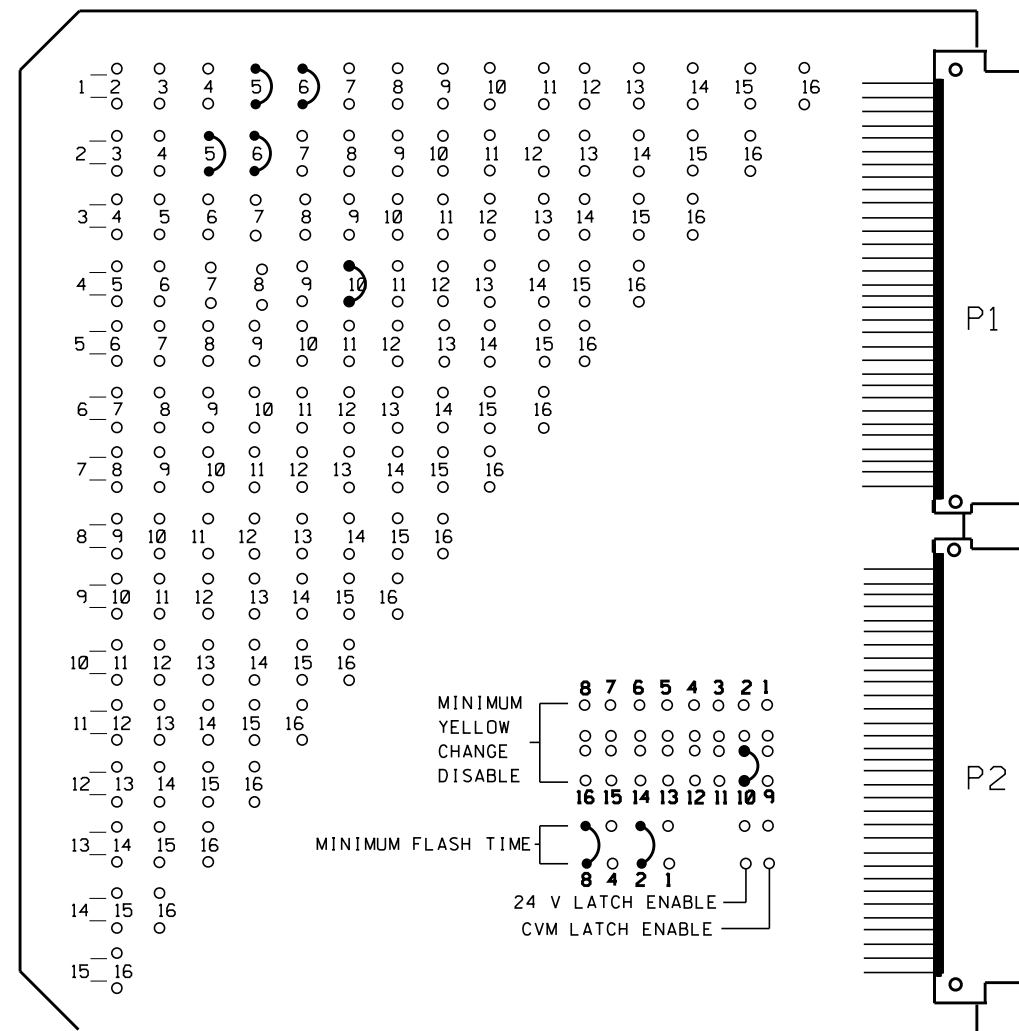


EDI MODEL MMU2-16LE MALFUNCTION MANAGEMENT UNIT PROGRAMMING DETAIL

(program card and tables as shown below)



MMU PROGRAMMING CARD

CHANNEL NUMBER	ENABLE/DISABLE
1	ENABLE
2	ENABLE
3	ENABLE
4	ENABLE
5	ENABLE
6	ENABLE
7	DISABLE
8	DISABLE
9	DISABLE
10	ENABLE
11	DISABLE
12	DISABLE
13	DISABLE
14	DISABLE
15	DISABLE
16	DISABLE

ENSURE YELLOW CHANGE PLUS RED CLEARANCE MONITORING IS ENABLED FOR ALL CHANNELS.

OPTION	SETTING
RECURRENT PULSE	ON
WALK DISABLE	OFF
LOG CVM FAULTS	ON
EXTERN WATCHDOG	OFF
24V-2=12VDC	OFF
PGM CARD MEMORY	ON
LEDgeurd	ON
FORCE TYPE 16	OFF
TYPE12-SDLCL	OFF
VM 3x/Day Latch	ON

FLASHING YELLOW ARROW	
CONFIG MODE	A
ENABLE CHANNEL PAIR, FYA	
CH 1-9	OFF
CH 3-10	OFF
CH 5-11	OFF
CH 7-12	OFF
RED/YEL INPUT ENABLE	
CH 1-9	OFF
CH 3-10	OFF
CH 5-11	OFF
CH 7-12	OFF
FLASH RATE FAULT	OFF
FYA TRAP DETECT	OFF

MMU PROGRAMMING NOTE

NOTES

- To prevent "Flash-conflict" problems, wire all unused load switches to flash red. Verify that signal heads flash in accordance with the signal plans.
- To prevent red failures on unused monitor channels, tie unused load switch red outputs 7,8,9,11,12,13,14, 15 and 16 to load switch AC+ by inserting a jumper plug in the unused load switch socket from pin 1 (LS AC+) to pin 3 (red out). Make sure all flash transfer relays are in place.
- Program controller to start up in phases 2 and 6 green.
- Set power-up flash time to 10 seconds and implement on the Malfunction Management Unit. Set controller power-up flash time to 0 seconds.
- Enable simultaneous gap-out feature, on controller unit, for all phases.
- Program detectors in accordance with the manufacturer's instructions to accomplish the detection schemes shown on the signal design plans.
- Program detector call delay and extension timing on the controller, unless otherwise specified.
- Set all detector card unit channels to "presence" mode.
- Program phases 2 and 6, on controller unit, for volume density operation.
- This controller and cabinet are part of the Greenville Signal System.

SIGNAL HEAD HOOK-UP CHART

PHASE	1	2	3	4	5	6	7	8	2 PED	4 PED	6 PED	8 PED	OLA	OLB	OLC	OLD
SIGNAL HEAD NO.	11	21,22 23,24	24	31	32,33	41	42	43,44	51,52	61,62 63,64	NU	NU	NU	NU	NU	NU
RED		2R	3R	3R	4R	4R		6R								
YELLOW		2Y	3Y	3Y	4Y	4Y		6Y								
GREEN		2G	3G	3G	4G	4G		6G								
RED ARROW	1R				4R			5R								
YELLOW ARROW	1Y		3Y		4Y			5Y								
GREEN ARROW	1G		3G	3G	4G	4G		5G								
WALK											10G					
DON'T WALK											10R					

NU = Not Used

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.

EQUIPMENT INFORMATION

CONTROLLER.....ECONOLITE_ASC/3
 CABINETNC-8A [TS-2]
 CABINET MOUNT.....BASE
 LOADBAY POSITIONS.....16
 LOAD SWITCHES USED.....1,2,3,4,5,6,10
 PHASES USED.....1,2,3,4,5,6,4PED
 OLA.....NOT USED
 OLB.....NOT USED
 OLC.....NOT USED
 OLD.....NOT USED

DETECTOR RACK SET-UP DETAIL

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.

DETECTOR RACK #1

BIU	CH1	CH1	CH1	CH1	CH1	CH1	CH1	SLOT	SLOT	SLOT	
	L3	L1	L7	L5	L11	L9	L15				L13
	∅ 2	∅ 1	∅ 3	∅ 2	∅ 5	∅ 4	∅ 6	∅ 6			
	CH2	CH2	CH2	CH2	CH2	CH2	CH2	EMPTY	EMPTY	EMPTY	
	L4	L2	L8	L6	L12	L10	L16				L14
	∅ 2	NOT USED	∅ 3	NOT USED	∅ 5	∅ 4	NOT USED	∅ 6			

DETECTOR RACK #2

BIU	SLOT	CH1	SLOT	SLOT
	L17	∅ 4	SLOT	SLOT
	EMPTY	CH2	EMPTY	EMPTY
		L18		
		NOT USED		

WIRE LOOPS TO TERMINALS ON LOOP PANEL AS SHOWN IN THE CHART BELOW

LOOP NO.	LOOP PANEL TERMINALS
1A	L1A,L1B
-	L2A,L2B
2A	L3A,L3B
2B	L4A,L4B
2C	L5A,L5B
-	L6A,L6B
3A	L7A,L7B
3B	L8A,L8B
4A	L9A,L9B
4B	L10A,L10B
5A	L11A,L11B
5B	L12A,L12B
6A	L13A,L13B
6B	L14A,L14B
6C	L15A,L15B
-	L16A,L16B
4C	L17A,L17B
-	L18A,L18B
-	L19A,L19B
-	L20A,L20B
-	L21A,L21B
-	L22A,L22B
-	L23A,L23B
-	L24A,L24B

NOTE
BE SURE TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND DELAY) AS SHOWN ON THE SIGNAL PLANS.

PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW

CONTROLLER DETECTOR NO.	FUNCTION	TIMING	
		FEATURE	TIME (SEC)
1	∅ 1	-	-
2	-	-	-
3	∅ 2	-	-
4	∅ 2	-	-
5	∅ 2	-	-
6	-	-	-
7	∅ 3	-	-
8	∅ 3	DELAY	10
9	∅ 4	DELAY	3
10	∅ 4	-	-
11	∅ 5	-	-
12	∅ 5	-	-
13	∅ 6	-	-
14	∅ 6	-	-
15	∅ 6	-	-
16	-	-	-
17	∅ 4	-	-
18	-	-	-
19	-	-	-
20	-	-	-
21	-	-	-
22	-	-	-
23	-	-	-
24	-	-	-

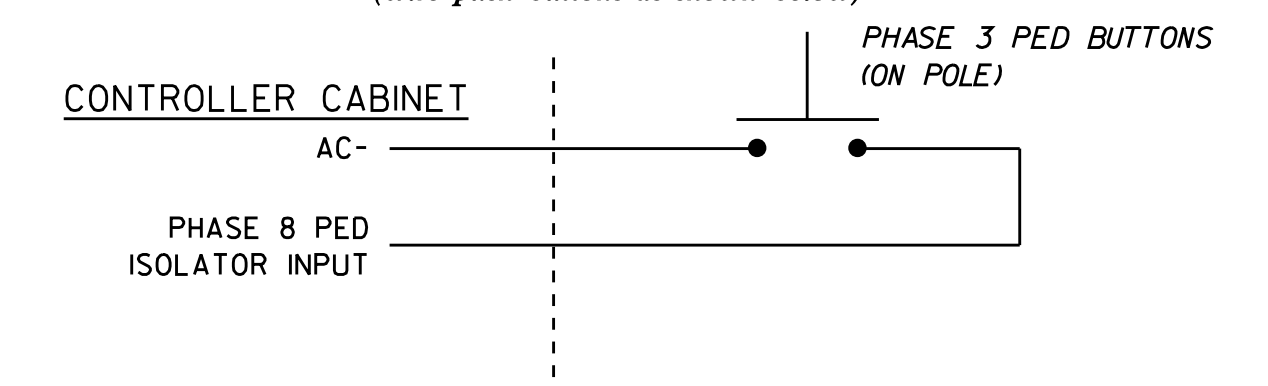
LOAD SWITCH ASSIGNMENT DETAIL

(program controller according to schedule in chart below)

LOAD SWITCH NUMBER	FUNCTION
1	∅ 1
2	∅ 2
3	∅ 3
4	∅ 4
5	∅ 5
6	∅ 6
7	∅ 7
8	∅ 8
9	∅ 2 PED
10	∅ 4 PED
11	∅ 6 PED
12	∅ 8 PED
13	OLA
14	OLB
15	OLC
16	OLD

PEDESTRIAN PUSH-BUTTON WIRING DETAIL

(wire push-buttons as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0053T2
 DESIGNED: JUNE 2014
 SEALED: 9/2/2014
 REVISED: N/A

TEMPORARY DESIGN 2 - TMP PHASE 2

	ELECTRICAL AND PROGRAMMING DETAILS FOR:		US 13-NC 11-43-903(MEMORIAL DRIVE)		SEAL
	Prepared For:		AT		
SR 1200 (STANTONS ROAD) / FARMVILLE BOULEVARD		DIVISION 2		PITT COUNTY GREENVILLE	
PLAN DATE: JUNE 2014		REVIEWED BY: SL PHILLIPS		PREPARED BY: SP PENNINGTON	
REVISIONS		INIT.		DATE	
SIGNATURE		DATE		INVENTORY NO. 02-0053T2	

PLANS PREPARED IN THE OFFICE OF:
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