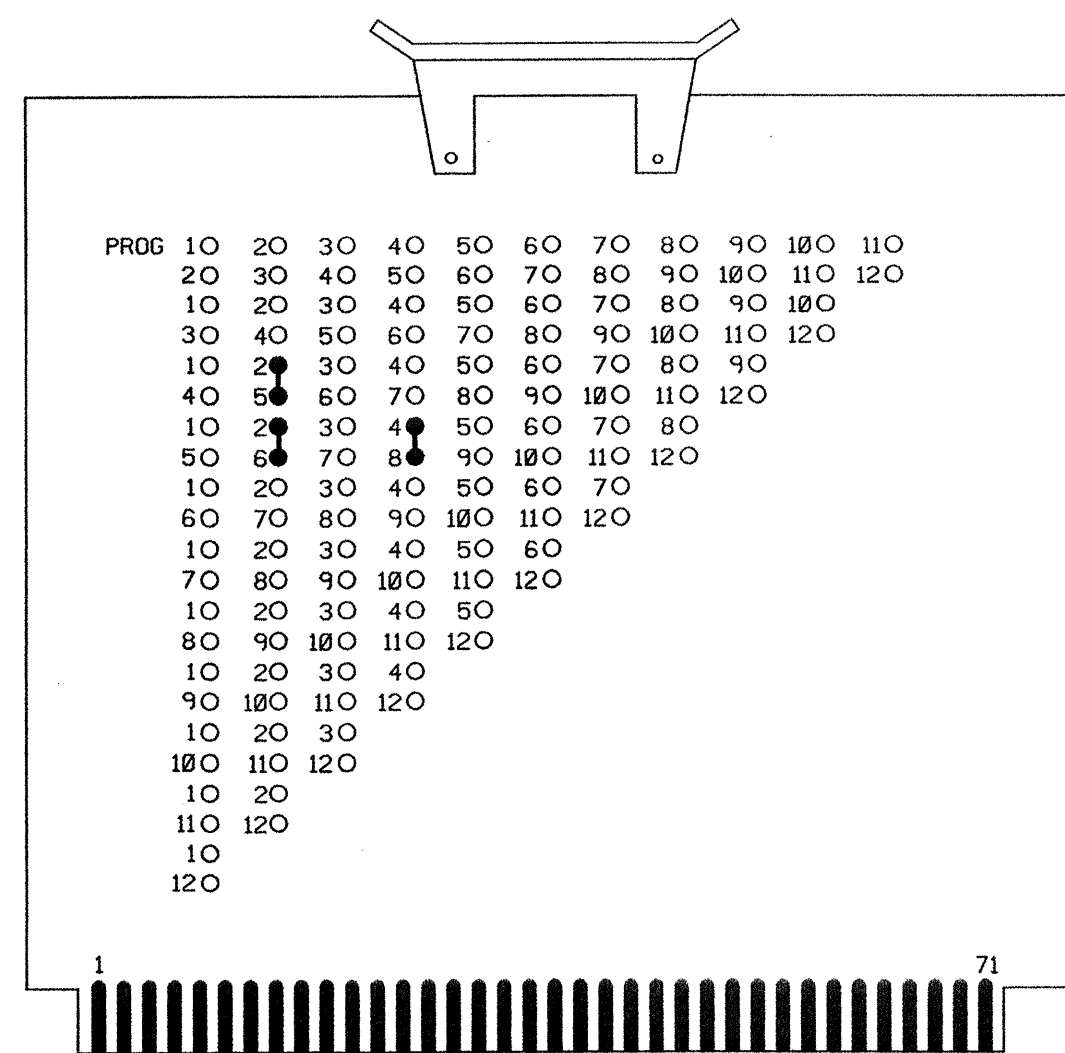


**NEMA CONFLICT-VOLTAGE MONITOR PROGRAMMING DETAIL**

(INSTALL JUMPERS AS SHOWN BELOW)



NOTE: MONITOR SHALL BE PROGRAMMED FOR FULL SIGNAL SEQUENCE MONITORING. (NEMA+)

**NOTES**

- TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED PHASES AND OVERLAPS 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 1,3,7,9,10,11 AND 12 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 CONFLICT MONITOR. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- WIRE DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
- SET ALL DETECTOR UNIT CHANNELS TO "PRESENCE" MODE.
- PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
- THE CABINET AND CONTROLLER ARE PART OF THE ROCKY MOUNT CLOSED LOOP SYSTEM. INTERSECTION ADDRESS #702

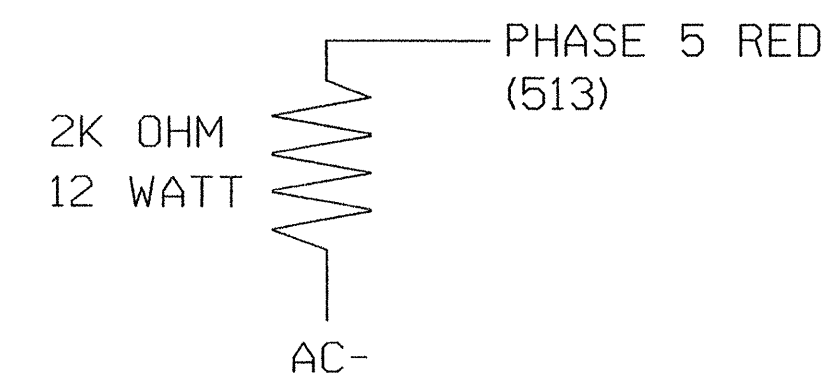
**FIELD CONNECTION HOOK-UP CHART**

PHASE	1	2	3	4	5	6	7	8	OLA	OLB	OLC	OLD	2 PED	4 PED	6 PED	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	41,42	21	61,62	NU	81,82	NU	NU	NU	NU	P21, P22	P41, P42	P61, P62	P81, P82
GREEN		506		512		518		524								
YELLOW		505		511		517		523								
RED		504		510	*	516		522								
RED ARROW																
YELLOW ARROW					514											
GREEN ARROW					515											
													734	732	730	728
													733	731	729	727

NU = NOT USED

\* DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

**LOAD RESISTOR INSTALLATION DETAIL**



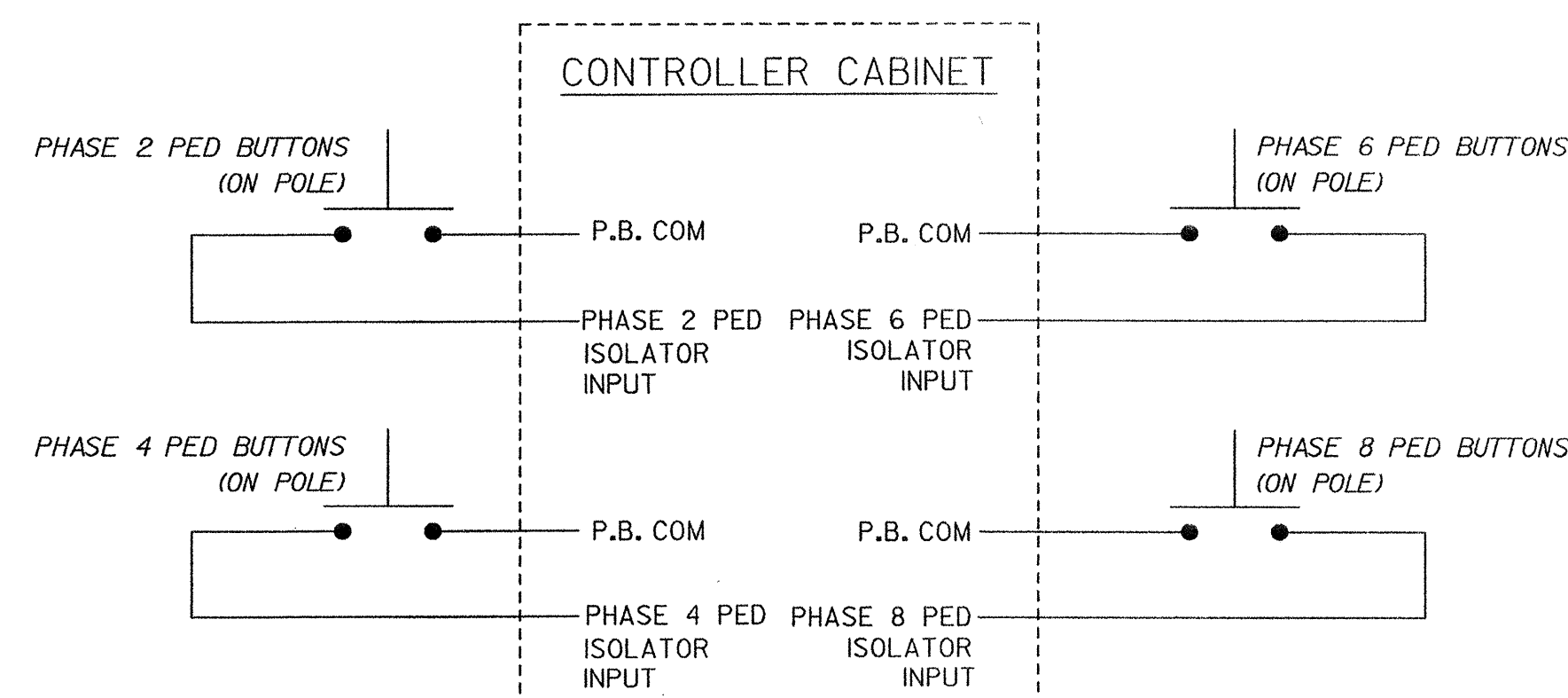
NOTE: THE PURPOSE OF THESE RESISTORS IS TO LOAD THE CHANNEL RED MONITOR INPUTS IN ORDER FOR THE SIGNAL SEQUENCE MONITOR TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON ON PHASES THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

**EQUIPMENT INFORMATION**

CONTROLLER.....PEEK TRAFFIC 3000  
 CABINET .....PEEK TRAFFIC 16 POS (DWG NO 8500#9838)  
 CABINET MOUNT.....BASE  
 LOADBAY POSITIONS.....16  
 LOAD SWITCHES USED.....2,4,5,6,8,13,14,15,16  
 PHASES USED.....2,4,5,6,8,2PED,4PED,6PED,8PED  
 OLA.....NOT USED  
 OLB.....NOT USED  
 OLC.....NOT USED  
 OLD.....NOT USED

**PEDESTRIAN PUSH BUTTON WIRING DETAIL**

(wire push-buttons to PED ISOLATOR BOARD as shown below)



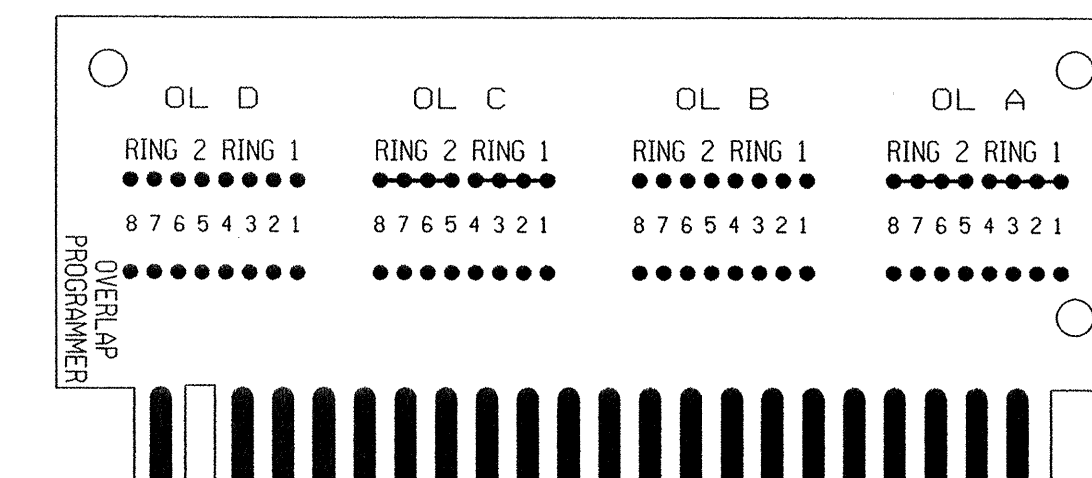
NOTE: ENSURE THAT THE PED OPTO-ISOLATION PCB ASSEMBLY IS IN PLACE AND CORRECTLY WIRED.

**TYPICAL CONNECTION CHART FOR DETECTORS**

PIN FUNCTION	LOOP PANEL TERMINATION
AC+	AC+
AC-	AC-
CHASSIS GROUND	CHASSIS GROUND
LOOP INPUT	LOOP
LOOP INPUT	LOOP
RELAY NORMALLY OPEN	VEHICLE CALL INPUT
RELAY COMMON	LOGIC GROUND
TIMER INHIBIT	ASSOCIATED PHASE GREEN

NOTE: THE TIMER INHIBIT WIRE SHALL BE CONNECTED TO THE ASSOCIATED PHASE GREEN LOAD SWITCH OUTPUT WHEN ONLY DELAY OPERATION IS REQUIRED UNLESS OTHERWISE SPECIFIED BY THE LOOP AND DETECTOR UNIT INSTALLATION CHART.

**NEMA OVERLAP CARD**



OVERLAP CARD SHALL BE COMPLETELY BLANK (NO OVERLAPS)

SIGNAL UPGRADE - FINAL DESIGN

PAGE 1 OF 3

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0382  
 DESIGNED: AUGUST 2004  
 SEALED: AUG 16, 2004  
 REVISED: TBD

**SEPI ENGINEERING GROUP**  
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ELECTRICAL AND PROGRAMMING DETAILS FOR:  
 Prepared for the Offices of:  

 122 N. McDowell St., Raleigh, NC 27603

US 64 BUS (RALEIGH ST.) AT STOKES AVENUE  
 DIVISION 04 EDGECOMBE COUNTY ROCKY MOUNT  
 PLAN DATE: AUGUST 2004 REVIEWED BY: J O DEATON  
 PREPARED BY: M W YALCH REVIEWED BY:  
 REVISIONS INIT. DATE

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 07438  
 JAMES O. DEATON  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 04-0382