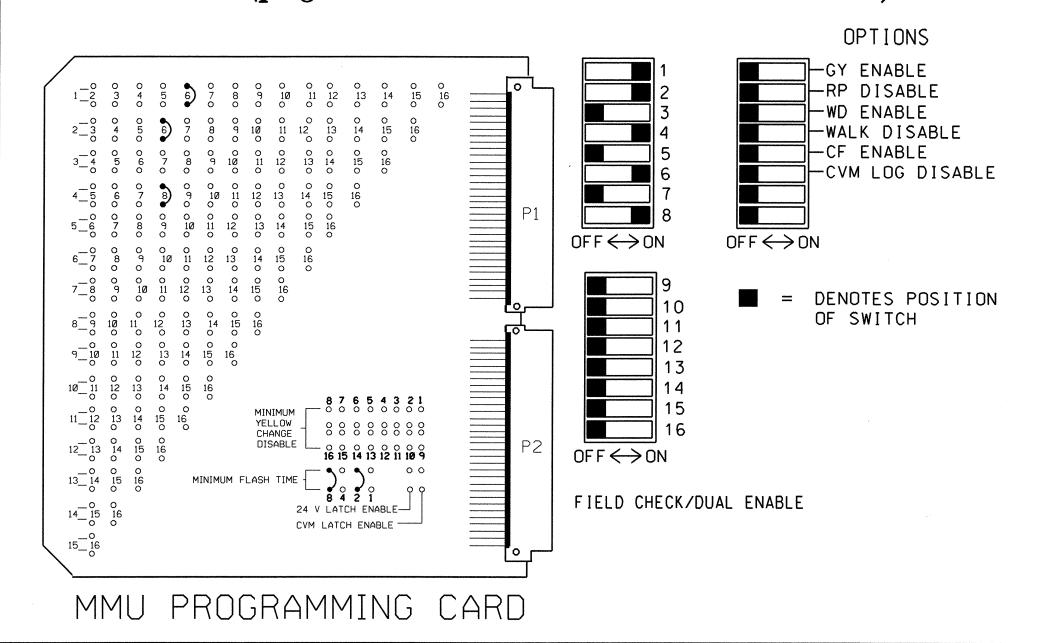
EDI MODEL MMU-16E MALFUNCTION MANAGEMENT UNIT PROGRAMMING DETAIL

(program card and set switches as shown below)



DETECTOR RACK SET-UP DETAIL

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

PAI	RIILUL	AR DE	IECIU	K CHA	ININELS	WILL	LALL	PHASE	S INDICATED.
	CH1	CH1	CH1	CH1	CH1	CH1			
	L3	L1	L7	L5	L11	L9	S	S	
	ø2	Ø 1	ø4	ø2	ø8	ø6	L	L	
				*		>	0 T	T	
BIU							•		POWER SUPPLY
DIO	CH2	CH2	CH2	CH2	CH2	CH2	E	E	
	L4	L2	L8	L6	L12	L10	M P	M P	AREA
	ø2	ø6	ø6	ø4	NOT	ø8	T	T	
		*			USED		Y	Y	

	N LOOP	PS TO TERMINALS PANEL AS SHOWN CHART BELOW	E
	L00P N0.	LOOP PANEL TERMINALS	
DD JUMPERS FROM: L1A TO L2A, AND	1A	L1A, L1B	
L1B TO L2B	1A	L2A, L2B	
	2A,2B	L3A, L3B	AS
	2C,2D	L4A, L4B	DE
	2E	L5A, L5B	DE

L6A, L6B L7A, L7B

L9A, L9B

6A,6B L8A, L8B

NOTE BE SURE TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND

DELAY) AS S		
ASSIGN CONTRO DETECTORS TO DET. NUMBERS CHART	LOCAL CONT. AS SHOWN IN	
CONTROLLER SYS. DET. NO.	LOCAL CONT. DETECTOR NO.	
1 2		
2		

	CONTROLLER	FUNCTION	TIMING						
	DETECTOR NO.	L ONC LION	FEATURE	TIME (SEC)					
	1	Ø 1	DELAY	15					
	2*	Ø6	DELAY	3					
M	3	ø2	EXTEND	1.8					
T.	4	ø 2		Marie de Parlamente de La Companya d					
V	5*	ø 2	DELAY	3					
	6	Ø 4	DELAY	3					
т.]	7	Ø 4	DELAY	10					
vo.	8	Ø6	EXTEND	1.5					
$\overline{}$	9	ø6							
	10	ø8	DELAY	3					
- 1		/ _							

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

86	A LIUA, LIUB	1 2			l %8	DELAY	3
88	B L11A, L11B	3		11	ø8	DELAY	10
NU	J L12A, L12B	4		12	NU		
	– L13A, L13B	5		13	-		
	– L14A, L14B	6		14			
	– L15A, L15B	7		15			
	– L16A, L16B	8		16			
<u> </u>							
HIS DETE	CTOR IS EQUIPPED	O WITH DELAY AN	ND EXTEND TIM	IER. TIMING RE	QUIRED F	FOR THIS	,

DETECTOR CHANNEL SHALL BE PROGRAMMED ON THE DETECTOR UNIT, NOT THE CONTROLLER.

NOTES

- 1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED LOAD SWITCHES TO FLASH RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
- 2. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 3,5,7,9,10,11,12,13,14, 15 & 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.
- 3. PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- 4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT ON THE MALFUNCTION MANAGEMENT UNIT, SET CONTROLLER POWER-UP FLASH TIME TO O SECONDS.
- 5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- 6. PROGRAM DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
- 7. PROGRAM DETECTOR CALL DELAY AND EXTENSION TIMING ON THE CONTROLLER, UNLESS OTHERWISE SPECIFIED.
- 8. SET ALL DETECTOR CARD UNIT CHANNELS TO "PRESENCE" MODE.
- 9. PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DUAL ENTRY.
- 10. PROGRAM AND WIRE THIS CONTROLLER AND CABINET TO BE PART OF THE HIGH POINT CITY SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INTERCONNECTION AND OPERATION OF THIS SIGNAL WITHIN THE SYSTEM.

EQUIPMENT INFORMATION

OL/D.....NOT USED

CONTROLLERPEEK TRAFFIC 3000 CABINETPEEK TRAFFIC NC-6 TS2-1 CABINET MOUNTBASE
LOADBAY POSITIONS16
LOAD SWITCHES USED1, 2, 4, 6, 8
PHASES USED
OL/ANOT USED
OL/BNOT USED
OL/CNOT USED

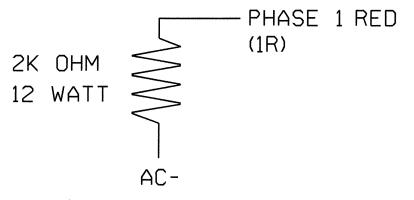
PROJECT REFERENCE NO. SIG.25

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.	61	21,22	NU	41,42	NU	61,62, 63	NU	81,82	NU	NU	NU	NU	NU	NU	NU	NU
GREEN		2G		4G		6G		8G	·							
YELLOW		2Y		4Y		6Y		8Y	,							
RED	*	2R		4R		6R		8R								
RED ARROW																
YELLOW ARROW	1 Y						-									
GREEN ARROW	1 G															

NU = NOT USED

* A LOAD RESISTOR SHALL BE INSTALLED ON LOAD SWITCH I RED FIELD TERMINAL. REFER TO LOAD RESISTOR INSTALLATION DETAIL THIS SHEET.

LOAD RESISTOR INSTALLATION DETAIL



THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL RED MONITOR INPUT IN ORDER FOR THE MALFUNCTION MANAGEMENT UNIT TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON PHASES THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

HIGH POINT CITY SIGNAL SYSTEM INTERSECTION I.D.711

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1283 DESIGNED: 03/19/2004 SEALED: 06/15/2004 REVISED:

07438

 \preceq IG. INVENTORY NO. 07-1283

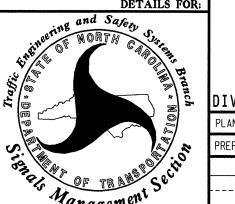
NEW INSTALLATION

PAGE 1 OF 2

SR 1113 (KIVETT DRIVE) SR 1355 (HARVEY ROAD)

DIVISION 07 GUILFORD COUNTY MAY 2004 REVIEWED BY: J O DEATON PREPARED BY: M W YALCH REVIEWED BY:

HIGH POINT



PLANS PREPARED BY: RUMMEL KLEPPER & KAHL, LLP consulting engineers

5800 FARINGDON PLACE SUITE 105 RALEIGH, NORTH CAROLINA 27609-3960 **FOR**

DIVISION OF HIGHWAYS