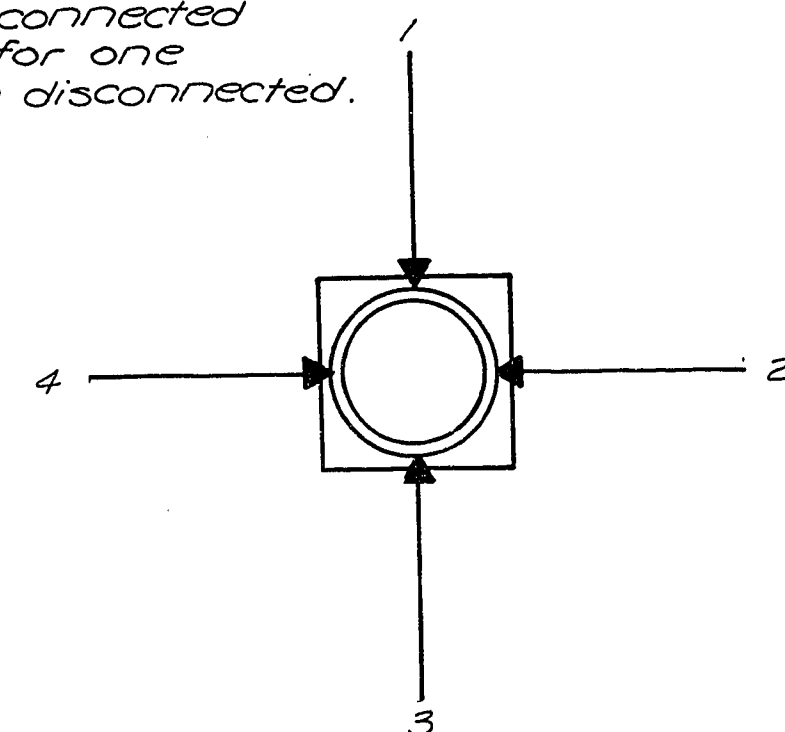


VEHICLE DETECTORS		
Phase - Location	Amplifiers required	Remarks
01 SB Lt.	/	New
02 NB Call*	/	"
02 NB Extension	/	"
04 EB Call*	/	"
04 EB Extension	/	"
05 SB Lt.	/	"
06 EB Call*	/	"
06 EB Extension	/	"
08 WB Call*	/	"
08 WB Extension	/	"
10 reqd. now		

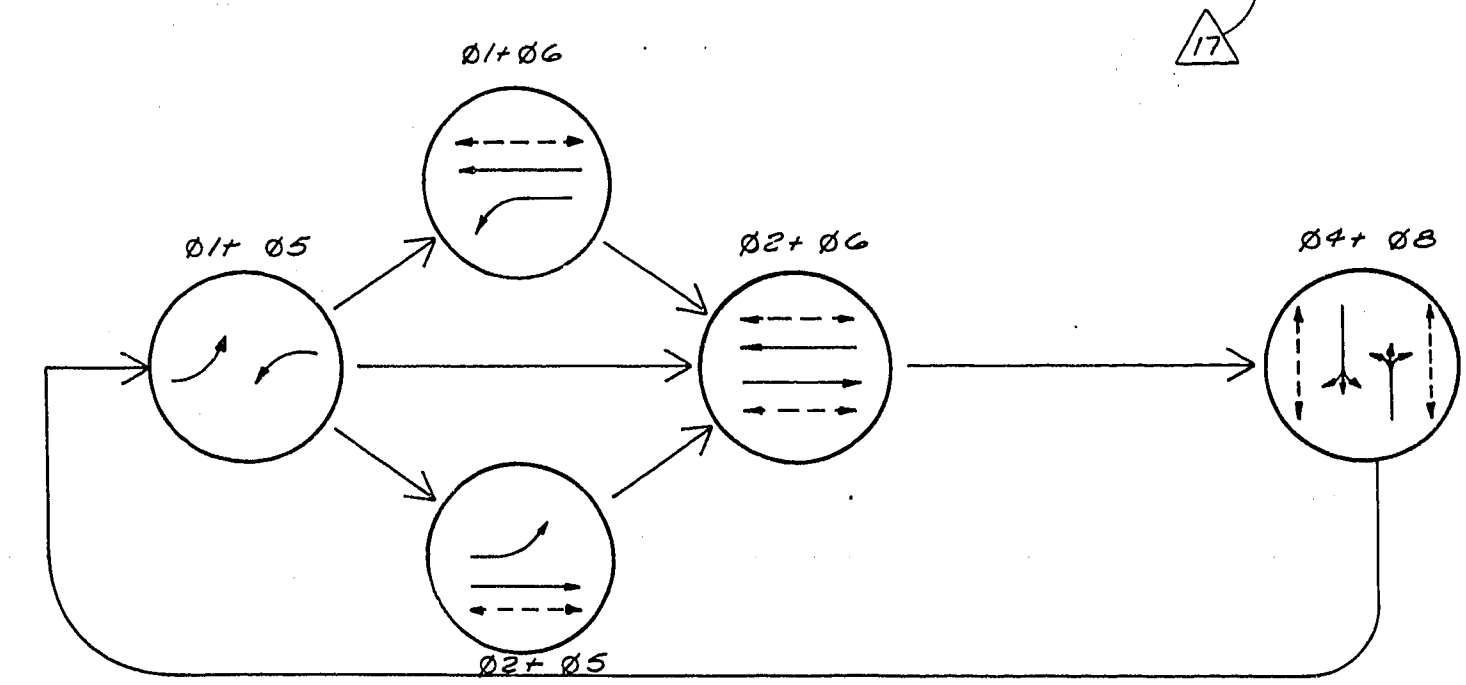
* 02NB, 04EB, 06SB, & 08WB call detectors shall be connected during phase red for one detection and then disconnected.



ARM OR SIGNAL LOCATION (TOP VIEW)

Contractor shall install a controller and cabinet which shall meet the requirements of NEMA Standards Parts 2, 3 & 5, Section 6 & 7 of part 4 (Definitions Physical Standards Reference) which are incorporated as part of the specifications. Additionally the controller unit furnished shall include the reference to, in the industry as 'Future-NEMA Standards' type of cabinet to be furnished shall be a Type 'R'.

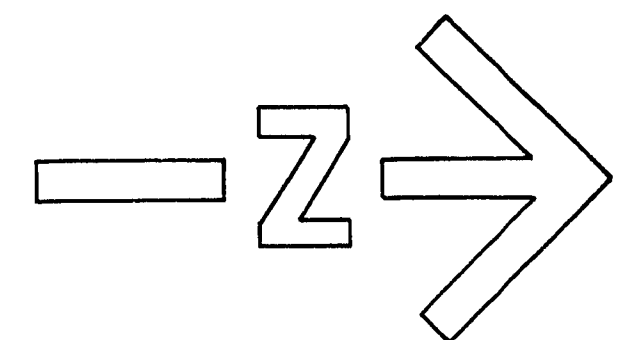
Exist. Interconnect See Sh. 53 Exist Service Conduit



PHASING DIAGRAM

Note: Controller shall be capable of expansion to eight (8) phase operation. Cabinet shall be wired for eight phase operation & set up in the field for the phasing as shown. A communication unit compatible with the City of Las Vegas new computerized traffic control system shall be installed in the cabinet including 2 telephone jacks marked T.M.C. & J.M.C.

Exist. Luminaire is on exist. signal circuit. include in new installation. Luminaire shall be wired to 40 amp single pole breaker for the southwest signal luminaire.



SCALE: 1" = 20'

POLE SCHEDULE											
NO.	LOCATION	TYPE	QUAD	LENGTH	QUAD	LENGTH	SIGNALS - VEHICLE	SIGNALS - PED	PED. BUTTON		
A	Curb Ret.	X X	4	35'	4	15'	1W3C M-2 MA	1W3C M-2 MA	1W3C B-3T 2		
B	Chr. NW	1-B					1W3C M-3 MA	1W3C M-3 MA	1W3C B-3T 2		
C	Curb Ret.	X X	1	35'	1	15'	1W3C M-2 MA	1W3C M-2 MA	1W3C B-3T 2		
D	Chr. NE	1-B					1W3C M-3 MA	1W3C M-3 MA	1W3C B-3T 2		
E	Curb Ret.	X X	2	35'	2	15'	1W3C M-2 MA	1W3C M-2 MA	1W3C B-3T 2		
F	Chr. SE	1-B					1W3C M-3 MA	1W3C M-3 MA	1W3C B-3T 2		
G	Curb Ret.	X X	3	35'	3	15'	1W3C M-2 MA	1W3C M-2 MA	1W3C B-3T 2		
H	Chr. SW	1-B					1W3C M-3 MA	1W3C M-3 MA	1W3C B-3T 2		

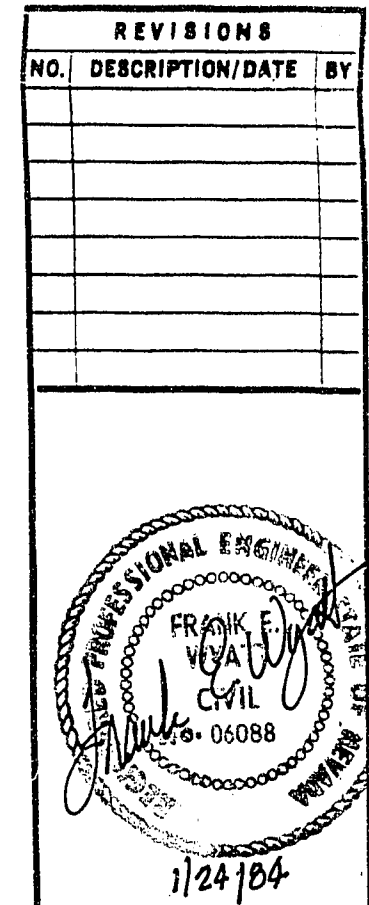
Poles A, C, E & G shall have internally illuminated street signs installed which read:
Poles A & E - "HIGHLAND DR"
Poles C & G - "ALTA DR"

OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF LEFT TURN SIGNAL HEAD ON POLE G, AND ON THE END OF MAST ARM ON POLE A. OPTICOM DETECTOR CABLE SHALL RUN FROM DETECTOR ON POLES A & G TO THE CONTROLLER CABINET.

NOTE: THE CONTRACTOR SHALL PROVIDE AND INSTALL OPTICOM EQUIPMENT FOR FIRE PRE-EMPTION AS SPECIFIED IN THE CONTRACT BID DOCUMENTS. INSTALLATION OF OPTICOM EQUIPMENT IS CONSIDERED PART OF THE NEW CONTROLLER EQUIPMENT, AND THUS THE CONTRACTOR'S BID FOR NEW CONTROLLER AND CABINET SHALL COVER ALL EXPENSE RELATED TO OPTICOM INSTALLATION.

TRAFFIC SIGNAL NOTES : SEE SHEET 48

CONDUIT & CABLE SCHEDULE											
RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE	DET. LEADS	LIGHTING CIR.	INTERCONNECT				
1	Controller	Pullbox	4"-2"	xx	xxx	xxx	xxx				
2	Pullbox	Pullbox	1"-2"	x	xx	xx	xx				
3	Pullbox	Pole A	1"-2"	x	x						
4	Pullbox	Pole B	1"-2"	x							
5	Pullbox	Pullbox	2"-2"	x	xx	xx	xx				
6	Pullbox	Pullbox	2"-2"	x	xx	xx	xx				
7	Pullbox	Pullbox	1"-2"	x	x	xx	xx				
8	Pullbox	Pole C	1"-2"	x							
9	Pullbox	Pole D	1"-2"	x							
10	Pullbox	Pole E	1"-2"	x	x						
11	Pullbox	Pole F	1"-2"	x							
12	Pullbox	Pole G	1"-2"	x							
13	Pullbox	Pole H	1"-2"	x							
14	Pullbox	Pullbox	1"-1"			x					
15	Pullbox	Pullbox	1"-1"			x					
16	Pullbox	Pullbox	1"-1"			x					
17	Pullbox	Pullbox	1"-1"			x					
18	Pullbox	Pullbox	1"-1"			xx	xx				
19	Pullbox	Pullbox	1"-1"			xx	xx				
20	Pullbox	Pullbox	1"-1"			x					
21	Pullbox (Ex.)	Controller	1"-2"					x Exten. Ex. Conduit to new Controller			
22	Controller	Service	1"-2"								
23	Pullbox	Padmount	Ex. 1"-2"								



SPARKS, NEVADA
LAS VEGAS, NEVADA
SEATTLE, WASHINGTON
ENGINEERS/PLANNERS

CITY OF LAS VEGAS
HIGHLAND DRIVE
CHARLESTON BOULEVARD TO CAREY AVENUE
SIGNALIZATION
HIGHLAND DRIVE AND ALTA DRIVE

JOB NO. 2-241-004-822
DESIGNED FGA II
DRAWN MCW
CHECKED
DATE JULY, 1982