

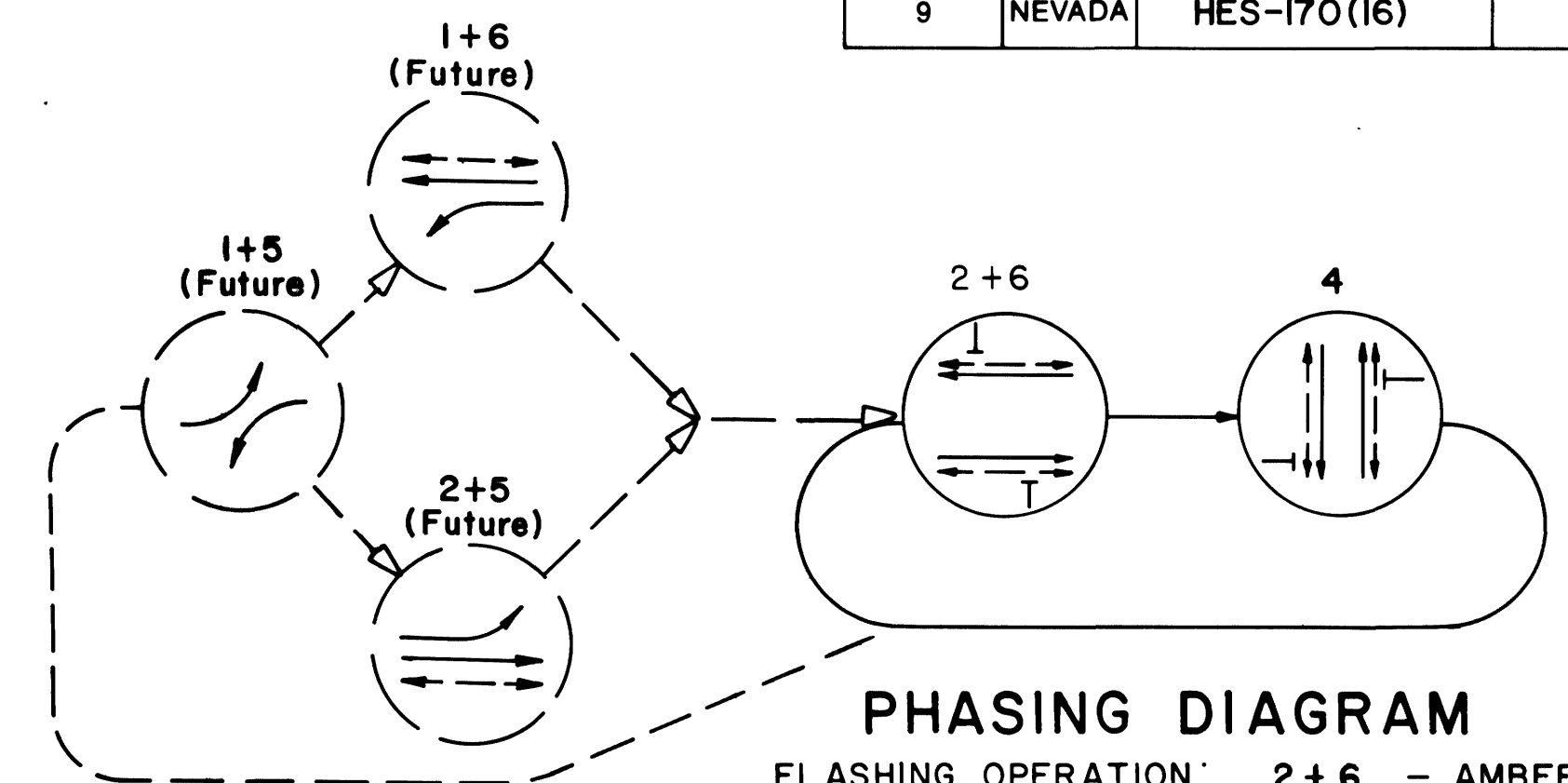
FED. RD. REG. NO.	STATE	PROJECT NO.	COUNTY	SHEET NO.
9	NEVADA	HES-170 (16)	CLARK	T-1

REMOVAL NOTES

1. REMOVE EXISTING SIGNAL SYSTEM, SALVAGE & STOCKPILE FOR PICKUP BY CITY OF LAS VEGAS FORCES.
2. REINSTALL EXISTING LUMINAIRES ON NEW SIGNAL POLES. COST TO BE INCLUDED IN OTHER ITEMS OF WORK. (NO DIRECT PAYMENT).
3. EXISTING CONTROLLER FOUNDATION TO REMAIN UNDISTURBED FOR INSTALLATION OF NEW NEMA CONTROLLER IN TYPE M CABINET.
4. CITY OF LAS VEGAS FORCES WILL RE-INSTALL EXISTING OPTICOM EQUIPMENT IN NEW CONTROLLER.
5. EXISTING INTERCONNECT & INTERSECTION CONDUIT TO REMAIN UNDISTURBED.
6. ALL ITEMS LISTED FOR REMOVAL ON THIS SHEET AND ON SHEETS T-2 AND T-3 SHALL BE MEASURED AND PAID UNDER THE LUMP SUM BID ITEM "REMOVAL OF EXISTING TRAFFIC SIGNAL SYSTEM".

CONTROLLER NOTES:

1. CONTROLLER SHALL BE HOUSED IN A TYPE "M" CABINET WITH EXHAUST FAN AND THERMOSTAT CONTROL.
2. CABINET SHALL BE PAINTED WHITE INSIDE AND OUT.
3. EACH LOOP DETECTOR LEAD-IN REPRESENTS A SEPARATE AMPLIFIER UNIT REQUIRED (TEN REQUIRED).
4. ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, FLASHERS, ETC. SHALL BE WIRED IN CABINET TO ACTIVATE THE FUTURE FIVE PHASE OPERATION AS SHOWN IN DIAGRAM.
5. EACH STREET LIGHT LUMINAIRE SHALL BE FUSED IN CABINET USING IN-LINE FUSE HOLDERS.
6. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



PHASE MODULES REQUIRED:

- 2 - TYPE S (FUTURE 01 & 05)
- 3 - TYPE DP (02, 04, 06)

EXISTING POLES & SIGNAL HEADS

Existing Interconnect to Intersection of Las Vegas Blvd. & Ogden

Existing Interconnect to City Hall

LAS VEGAS

BLVD.

AVE.

STEWART

CONDUIT-CABLE SCHEDULE

RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE	DET. LEADS	LIGHTING CIRCUIT	GRND. WIRE	INTER-CONNECT	SERVICE
1	CONTROLLER	NEW P.B. (POLE A)	3"	XXXX	XXXXXX	2-#10	1-#8		2-#4, 2-#6
2	CONTROLLER	L.V. BLVD & OGDEN	EXISTING					EXISTING	
3	CONTROLLER	EXISTING P.B. (POLE A)	EXISTING		XXX			EXISTING	
4	NEW P.B. (POLE A)	NEW P.B. (POLE B)	JACKED	XX			1-#8		
5	EXISTING P.B. (POLE A)	JUNCT RUNS & CITY HALL	EXISTING		XX			EXISTING	
6	ANCA RUNS & JUNCT RUNS	PULL BOX	EXISTING					EXISTING	
7	DET. (POLE B)	DET. (POLE C)	EXISTING	X	X				
8	NEW P.B. (POLE B)	NEW P.B. (POLE C)	EXISTING		XXX	2-#10	1-#8		2-#4, 2-#6
9	NEW P.B. (POLE A)	NEW P.B. (POLE C)	JACKED						
10	NEW P.B. (POLE A)	NEW P.B. (POLE C)	EXISTING	X	XXXX	2-#10	1-#8		2-#4, 2-#6
11	NEW P.B. (POLE A)	PULL BOX	EXISTING						
12	NEW P.B. (POLE A)	DET. (POLE A)	EXISTING		X				2-#4, 2-#6
13	SERVICE	POWER SOURCE	2"				1-#6		3-#0

SERVICE NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL AN UNDERGROUND SERVICE. PEDISTAL AS DESCRIBED ON STANDARD PLANS SHEET T-30.1.5. MAIN BREAKER SHALL BE 100 AMP 120/240 VAC, 60 HZ SINGLE PHASE, 3 WIRE WITH THE FOLLOWING CIRCUIT BREAKERS:
 - a. ONE 60 AMP 120 VAC SINGLE POLE BREAKER FOR THE SIGNAL CIRCUIT.
 - b. ONE 40 AMP 120 VAC DOUBLE POLE BREAKER FOR THE INTERSECTION LIGHTING CIRCUIT.
2. SEE SERVICE NOTES NOS. 2 & 3 ON SHEET T-2 FOR SIMILAR APPLICATION AT THIS INTERSECTION.

CONDUIT/CONDUCTOR NOTES

1. SIGNAL CABLE: X = ONE 20 CONDUCTOR #14 THW CABLE, I.M.S.A. SPEC 20-1 DETECTOR LEADS: X = ONE TWISTED PAIR #12 AWG CABLE I.M.S.A. SPEC 19-2
2. GROUNDING IN CONTROLLER FOUNDATION SHALL BE AS PER NDOT STANDARD PLANS SHEET T-30.1.5 AND BONDED TO BARE #8 AWG PROVIDED. ALL POLES SHALL BE BONDED TO BARE #8 AWG.
3. ALL EXPOSED CONDUIT SHALL BE RIGID METALIC TO A MINIMUM DEPTH OF 18" BEFORE CHANGING TO P.V.C. P.V.C. COATED RIGID METALIC IS A REQUIREMENT FOR ALL CONDUIT BENDS. (SEE SPECIAL PROVISIONS).
4. ALL CABLE SHALL BE INSTALLED TERMINAL TO TERMINAL WITH NO SPLICING ALLOWED. BRANCHING AND/OR SPLICING OF LIGHTING CONDUCTORS SHALL BE ALLOWED IN PULL BOXES ONLY.
5. RUNS 11 & 12 SHALL BE JACKED, OR BORED. TRENCHING WILL BE PERMITTED ON OTHER RUNS.

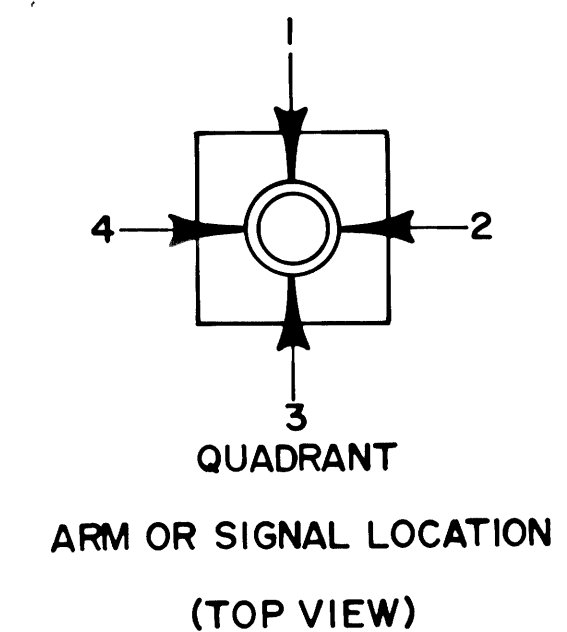
6. NO. 14 CONDUCTORS SHALL BE USED BETWEEN TERMINAL BLOCK AND INDIVIDUAL SIGNAL HEADS.

POLE SCHEDULE											
POLE						SIGNALS					
NO.	STATION	TYPE	SIGNAL ARM QUAD	ARM LENGTH	LUM. ARM LENGTH	TYPE	MOUNT	QUAD	VEH. MOUNT.	PED. QUAD	PED. BUTTON
A	"LV" 5+06 39' LT.	35	3	30	3 12'	1W3C 1W3C 1W3C	M-2 M-2 M-2	MAST-ARM MAST-ARM MAST-ARM	W-3	.1	2 LT.
B	"S" 10+05 35' LT.	20	4	25	4 12'	1W3C 1W3C 1W3C	M-2 M-2 M-2	MAST-ARM MAST-ARM MAST-ARM	W-3	2	3 LT. RT.
C	"LV" 5+93 40' RT.	35	1	30	1 12'	1W3C 1W3C 1W3C	M-2 M-2 M-2	MAST-ARM MAST-ARM MAST-ARM	W-3	3	1 LT. RT.
D	"S" 11+00 30' RT.	20	2	30	2 12'	1W3C 1W3C 1W3C	M-2 M-2 M-2	MAST-ARM MAST-ARM MAST-ARM	W-3	4	1 LT. RT.

POLE SCHEDULE NOTES:

1. THE TYPE 35 POLES SHALL HAVE A MAST ARM CONNECTION THAT IS RECTANGULAR IN SHAPE (13" x 18") IN LIEU OF THE 15" DIAMETER BOLT CIRCLE SHOWN ON STD. PLAN SHEET NO. T-30.1.11 (SEE LAS VEGAS DRWG. NO. 404.406, SH. 2).
2. ALL PEDESTRIAN SIGNAL FACES SHALL BE SYMBOL TYPE (HAND AND MAN).
3. THE CONTRACTOR SHALL REMOVE THE EXISTING INTERSECTION LUMINAIRES AND RE-INSTALL THEM ON THE NEW SIGNAL POLES. THE REINSTALLATION COSTS ARE TO BE INCLUDED IN THE COST OF OTHER ITEMS OF WORK WITH A NO DIRECT PAYMENT FOR THE RELOCATION.
4. POLES SHALL BE DELIVERED PRIME PAINTED AND PAINTED ON SITE BY CONTRACTOR AS PER SPECIAL PROVISIONS.
5. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE INSTALLED ON ALL SIGNAL ARMS. POLE (A) AND (C) SHALL HAVE "STEWART ST." LEGEND AND POLES (B) AND (D) HAVE "LAS VEGAS BLVD." SIGNS SHALL BE WIRED TO LUMINAIRE P.E. CONTROL. (SEE ST'D. SHEET T-30.1.5). THE SIGNS ON POLES (B) & (D) SHALL BE 8' AND THE OTHER TWO 6'.

NOTE: STATIONING ASSUMED FOR THIS PROJECT ONLY



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

MODIFY TRAFFIC SIGNAL SYSTEM
FOR
LAS VEGAS BLVD. & STEWART AVE.