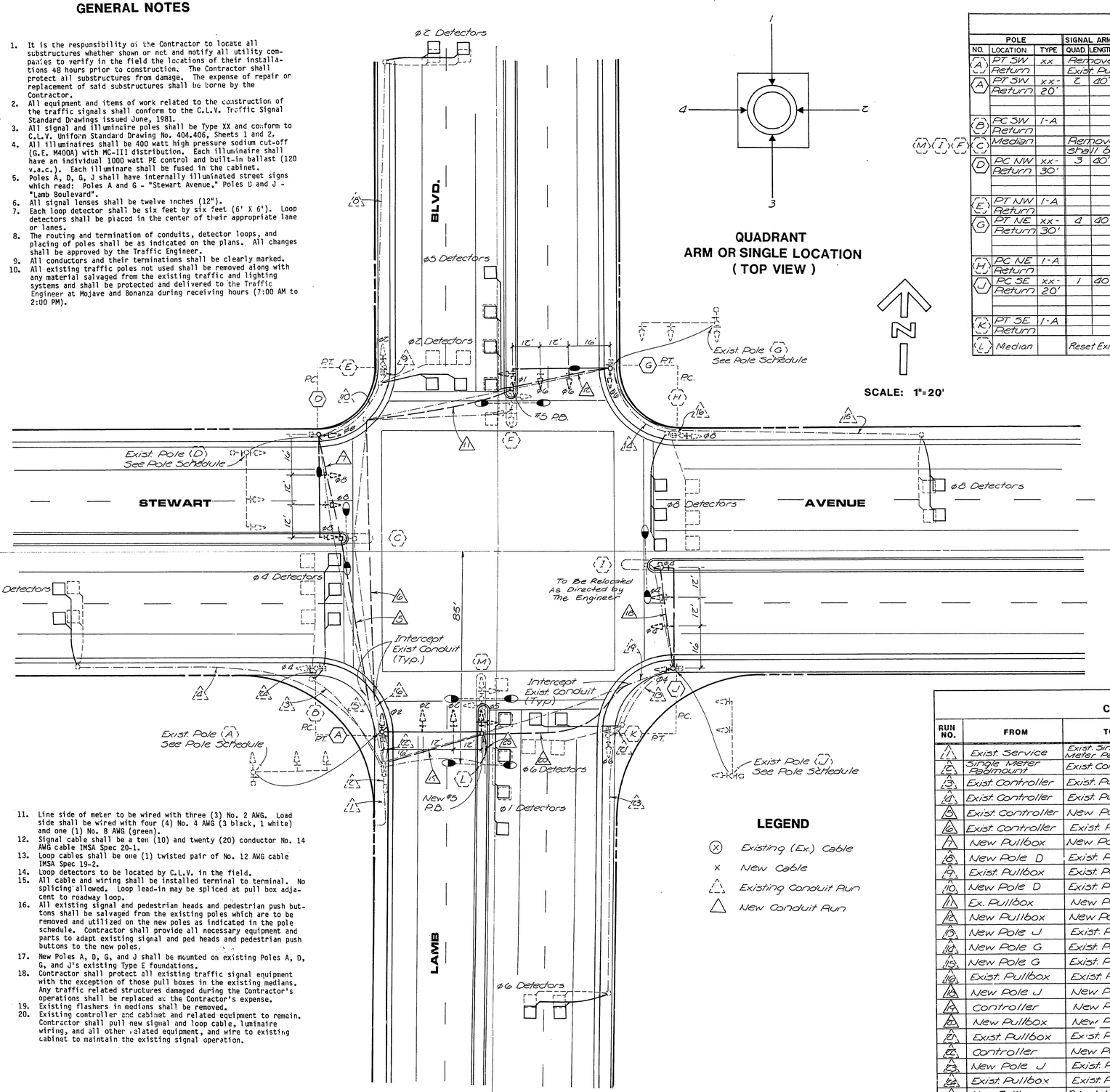
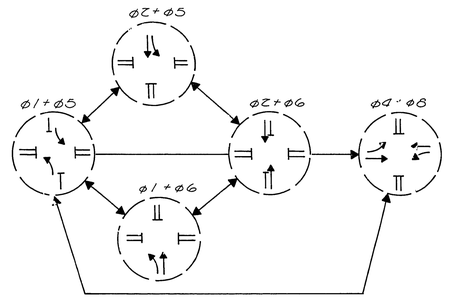
GENERAL NOTES

1. It is the responsibility of the Contractor to locate all substructures whether shown or not and notify all utility companies to verify in the field the locations of their installations 48 hours prior to construction. The Contractor shall protect all substructures from damage. The expense of repair or replacement of said substructures shall be borne by the Contractor.
2. All equipment and items of work related to the construction of the traffic signals shall conform to the C.L.V. Traffic Signal Standard Drawings issued June, 1981.
3. All signal and illuminaire poles shall be Type XX and conform to C.L.V. Uniform Standard Drawing No. 404.406, Sheets 1 and 2.
4. All illuminaires shall be 400 watt high pressure sodium cut-off (G.E. M400A) with MC-III distribution. Each illuminaire shall have an individual 1000 watt PE control and built-in ballast (120 v.a.c.). Each illuminare shall be fused in the cabinet.
5. Poles A, D, G, J shall have internally illuminated street signs which read: Poles A and G - "Stewart Avenue," Poles D and J - "Lamb Boulevard".
6. All signal lenses shall be twelve inches (12").
7. Each loop detector shall be six feet by six feet (6' X 6'). Loop detectors shall be placed in the center of their appropriate lane or lanes.
8. The routing and termination of conduits, detector loops, and placing of poles shall be as indicated on the plans. All changes shall be approved by the Traffic Engineer.
9. All conductors and their terminations shall be clearly marked.
10. All existing traffic poles not used shall be removed along with any material salvaged from the existing traffic and lighting systems and shall be protected and delivered to the Traffic Engineer at Mojave and Bonanza during receiving hours (7:00 AM to 2:00 PM).



QUADRANT ARM OR SINGLE LOCATION (TOP VIEW)

SCALE: 1"=20'



EXISTING PHASING

LEGEND

- (⊗) Existing (Ex.) Cable
- × New Cable
- Existing Conduit Run
- New Conduit Run

11. Line side of meter to be wired with three (3) No. 2 AWG. Load side shall be wired with four (4) No. 4 AWG (3 black, 1 white) and one (1) No. 8 AWG (green).
12. Signal cable shall be a ten (10) and twenty (20) conductor No. 14 AWG cable IMSA Spec 20-1.
13. Loop cables shall be one (1) twisted pair of No. 12 AWG cable IMSA Spec 19-2.
14. Loop detectors to be located by C.L.V. in the field.
15. All cable and wiring shall be installed terminal to terminal. No splicing allowed. Loop lead-in may be spliced at pull box adjacent to roadway loop.
16. All existing signal and pedestrian heads and pedestrian push buttons shall be salvaged from the existing poles which are to be removed and utilized on the new poles as indicated in the pole schedule. Contractor shall provide all necessary equipment and parts to adapt existing signal and ped heads and pedestrian push buttons to the new poles.
17. New Poles A, D, G, and J shall be mounted on existing Poles A, D, G, and J's existing Type E foundations.
18. Contractor shall protect all existing traffic signal equipment with the exception of those pull boxes in the existing medians. Any traffic related structures damaged during the Contractor's operations shall be replaced at the Contractor's expense.
19. Existing flashers in medians shall be removed.
20. Existing controller and cabinet and related equipment to remain. Contractor shall pull new signal and loop cable, luminaire wiring, and all other related equipment, and wire to existing cabinet to maintain the existing signal operation.

POLE SCHEDULE

NO.	POLE LOCATION	POLE TYPE	SIGNAL ARM QUAD	SIGNAL ARM LENGTH	LUM. ARM QUAD	LUM. ARM LENGTH	SIGNALS - VEHICLE TYPE	SIGNALS - VEHICLE QUAD	SIGNALS - PED. MOUNT	SIGNALS - PED. PHASE	PED. BUTTON QUAD	PED. BUTTON ARROW	REMARKS
(A)	PT SW	xx	Remove Exist. Pole. Exist. Signal & Ped. Heads and										
	Return		Exist. Push Button to be Used for New Pole A.										
(A)	PT SW	xx-20'	2	40'	2	15'	M-2	MA	W-OT	4	3	Rt.	Use Signal & Ped Heads & Push Button from Ex. Poles A & M
	Return						M-2	MA					
							M-3	MA					
							B-1T	4					
(B)	PC SW	1-A											Exist. Pole to Remain
	Return												
(M)(I)(F) (C)	Median		Remove Exist. Poles. Exist. Signal Heads on Poles F & M Shall be Salvaged & Used on New Poles A, D, G, & J.										
(D)	PC NW	xx-30'	3	40'	3	40'	M-2	MA	W-OT	1	4	Rt.	Use Signal & Ped Heads & Push Button from Ex. Poles D & M
	Return						M-2	MA					
							M-2	MA					
							B-5T	1					
(E)	PT NW	1-A											Exist. Pole to Remain
	Return												
(G)	PT NE	xx-30'	4	40'	4	15'	M-2	MA	W-OT	2	1	Rt.	Use Signal & Ped Heads & Ped Push Button from Ex. Poles F & G
	Return						M-2	MA					
							M-3	MA					
							B-1T	2					
(H)	PC NE	1-A											Exist. Pole to Remain
	Return												
(J)	PC SE	xx-20'	1	40'	1	15'	M-2	MA	W-OT	3	2	Rt.	Use Signal & Ped. Heads & Ped Push Button from Ex. Poles F & J
	Return						M-2	MA					
							M-2	MA					
							B-5T	3					
(K)	PT SE	1-A											Exist. Pole to Remain
	Return												
(L)	Median		Reset Exist. Pole Including New Foundation to Match Grade of New Median.										

CONDUIT & CABLE SCHEDULE

RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE 10 CONTRO 14 AWG	SIGNAL CABLE 20 CON 14 AWG	DET. LEADS LOOPS 2 CON 12 AWG	LIGHTING CIR LUM. 3 AWG	LIGHTING CIR FLASH 2 AWG	INTERCONNECT	SERVICE	REMARKS
1	Exist. Service	Exist. Single Meter Pedmount	Ex. 2"							⊗	Use Ex. service
2	Single Meter Pedmount	Exist. Controller	Ex. 2"							⊗	Use Ex. Service
3	Exist. Controller	Exist. Pullbox	Ex 2"	⊗		⊗					
4	Exist. Controller	Exist. Pullbox	Ex. 1"			×					
5	Exist. Controller	New Pullbox	Exist. & New 2"		×	××	××				
6	Exist. Controller	Exist. Pullbox	Exist. & New 2"		×	×××	××				
7	New Pullbox	New Pole D	New 2"		×	××	××				
8	New Pole D	Exist. Pullbox	Ex. 1"			×					
9	Exist. Pullbox	Exist. Pole E	Ex. 2"	⊗							
10	New Pole D	Exist. Pullbox	Ex. 2"	⊗							
11	Ex. Pullbox	New Pullbox	New 2"		×	×××	××				
12	New Pullbox	New Pole G	New 2"		×	××	××				
13	New Pole J	Exist. Pullbox	Ex. 2"	⊗		×					
14	New Pole G	Exist. Pullbox	Ex. 2"	⊗		×					
15	New Pole G	Exist. Pullbox	Ex. 1"			×					
16	Exist. Pullbox	Exist. Pole H	Ex. 2"	⊗							
17	New Pole J	New Pullbox	New 1"								For Future ø Det.
18	Controller	New Pullbox	New 2"		×	×××	××				
19	New Pullbox	New Pole J	EXIST. 1" New 2"		×	××					
20	Exist. Pullbox	Exist. Pole K	Exist. 2"	⊗							
21	Controller	New Pole A	Ex. 2"		×						
22	New Pole J	Exist. Pullbox	Ex. 1"			×					
23	Exist. Pullbox	Exist. Pole B	Ex. 2"	⊗							
24	New Pullbox	Relocated Pole L	New 2"				××				

REVISIONS		
NO.	DESCRIPTION/DATE	BY

8/14/84

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

CITY OF LAS VEGAS
STEWART AVENUE
28TH STREET TO NELLIS BOULEVARD

TRAFFIC SIGNAL LAMB BLVD.

JOB NO.	2-241-005-821
DESIGNED	F.G.F.
DRAWN	AC
COMP.	
CHECKED	
DATE	1-6-84

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42 OF 47 SHEETS

107-V819C