NOTES:

1. CHECK CONDUIT & CABLE SCHEDULE FOR CONDUIT, CABLE & WIRE SIZE.
2. LINE SIDE OF SERVICE PEDESTAL TO BE WIRED WITH THREE #3/0 AWG COPPER CONDUCTORS.
3. INSTALL FIVE #4 AWG COPPER CONDUCTORS (3 BLACK, 1 WHITE & 1 GREEN) FROM SERVICE PEDESTAL TO CONTROLLER. SEE SHEET E-1 FOR STREET LIGHTING CIRCUIT REQUIREMENTS.
4. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER.
5. SIGNAL CABLE SHALL BE A 10 & 20 CONDUCTOR #14 A.W.G. CABLE, I.M.S.A. SPEC 20-1.
6. LOOP CABLE SHALL BE ONE TWISTED PAIR OF #12 A.W.G. CABLE, I.M.S.A. SPEC 19-2.
7. ALL SIGNAL LENSES SHALL BE 12".
8. CONTROLLER SHALL BE HOUSED IN A TYPE "R" CABINET WITH EXHAUST FAN AND THERMOSTAT CONTROL.
9. CABINET SHALL BE PAINTED WHITE INSIDE AND OUT.
10. EACH LOOP DETECTOR LEAD-IN REPRESENTS A SEPARATE AMPLIFIER UNIT REQUIRED. (TEN REQUIRED).
11. ALL NECESSARY AMPLIFIER UNITS, MODULES, LIGHT CONTROL UNITS, SWITCHES, OPTICOM, FLASHERS, ETC. SHALL BE WIRED IN CABINET TO ACTIVATE THE SIX PHASE OPERATION AS SHOWN IN DIAGRAM ALL WIRING FOR FUTURE PHASING SHALL BE INCLUDED.

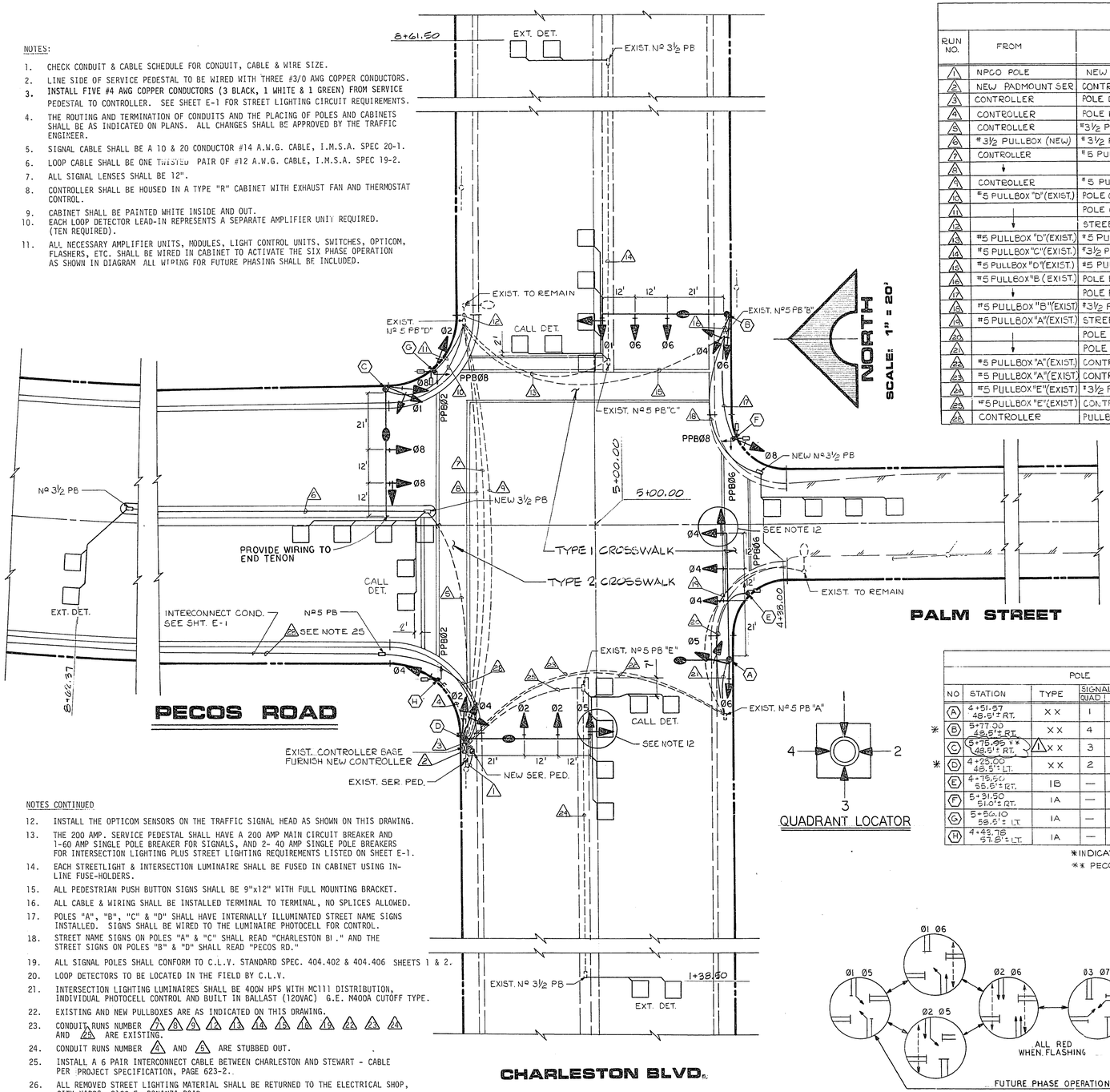
INCLUDE IN EACH CONDUIT A NO. 8 THW GREEN GROUNDING CONDUCTOR

(E) INDICATES EXISTING OR PARTIAL EXISTING CONDUIT.

CONDUIT & CABLE SCHEDULE

RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE 10 CON 14 AWG	SIGNAL CABLE 20 CON 14 AWG	LOOPS 2 CON 12 AWG	LIGHT. CIR LUM 2 CON 10 AWG		INTERCONNECT	OPTICOM	SERVICE
1	NPGO POLE	NEW PADMOUNT SER	2"								X
2	NEW PADMOUNT SER	CONTROLLER	2"								X
3	CONTROLLER	POLE D	(E) 2"		X		X			X	
4	CONTROLLER	POLE H	2"	X							
5	CONTROLLER	#3½ PULLBOX (NEW)	(E) 2"			XXX					
6	#3½ PULLBOX (NEW)	#3½ PULLBOX (NEW)	1"			X					
7	CONTROLLER	#5 PULLBOX "D"(EXIST.)	(E) 2"	X	X		XX				
8	↓	↓	(E) 2"	X	X		X				
9	CONTROLLER	#5 PULLBOX "D"(EXIST.)	(E) 2"			X XXX					
10	#5 PULLBOX "D"(EXIST.)	POLE C	2"		X		X				
11	↓	POLE G	2"	X							
12	↓	STREET LGT.	(E) 1"				X				
13	#5 PULLBOX "D"(EXIST.)	#5 PULLBOX "C"(EXIST.)	(E) 2"			XXX					
14	#5 PULLBOX "C"(EXIST.)	#3½ PULLBOX (EXIST.)	(E) 1½"			X					
15	#5 PULLBOX "D"(EXIST.)	#5 PULLBOX "B"(EXIST.)	(E) 2"	X	X		X	X			
16	#5 PULLBOX "B (EXIST.)	POLE B	(E) 2"		X			X			
17	↓	POLE F	2"	X							
18	#5 PULLBOX "B"(EXIST)	#3½ PULLBOX (NEW)	1"			X					
19	#5 PULLBOX "A"(EXIST.)	STREET LGT. (EXIST.)	(E) 2"				X				
20	↓	POLE E	2"	X							
21	↓	POLE A	2"		X		X			X	
22	#5 PULLBOX "A"(EXIST.)	CONTROLLER	(E) 2"	X	X		XX			X	
23	#5 PULLBOX "A"(EXIST.)	CONTROLLER	(E) 2"			NOT USED					
24	#5 PULLBOX "E"(EXIST)	#3½ PULLBOX (EXIST)	(E) 1½"			X					
25	#5 PULLBOX "E"(EXIST)	CONTROLLER	2"			XXX					
26	CONTROLLER	PULLBOX	2"						X		

10, 11, 12, 15



NOTE:
- – – – INDICATES EXISTING CONDUIT
——— INDICATES NEW CONDUIT

POLE SCHEDULE

NO	STATION	TYPE	POLE SIGNAL ARM QUAD	POLE SIGNAL ARM LNG	POLE LUM. ARM QUAD	POLE LUM. ARM LNG	SIGNALS (VEH) QUADRANT	SIGNALS (VEH) TYPE	SIGNALS (VEH) QUADRANT	SIGNALS (VEH) MOUNTING	PED. PUSH BUTTON QUADRANT	PED. PUSH BUTTON ARROW
Ⓐ	4+51.57 48.6'± RT.	XX	1	45'	4	15'	MA 3	M-2(2)M-2A B-3T	—	—	—	—
* Ⓑ	5+77.00 48.5'± RT.	XX	4	45'	4	15'	MA 2	M-2(2)M-3 B-3T	—	—	—	—
Ⓒ	5+76.95 ** 48.5'± RT.	15 XX	3	45'	3	15'	MA 1	M-2, M-2A B-3T	—	—	—	—
* Ⓓ	4+28.00 48.5'± LT.	XX	2	45'	2	15'	MA 4	M-2(2)M-3 B-3T	—	—	—	—
Ⓔ	4+75.50 55.5'± RT.	1B	—	—	—	—	—	—	TOP	W-1T	4	LT
Ⓕ	5+31.50 51.0'± RT.	1A	—	—	—	—	TOP	A-1	2	W-3T	3	LT
Ⓖ	5+56.10 58.5'± LT.	1A	—	—	—	—	TOP	A-1	4	W-3T	4	RT
Ⓗ	4+43.76 51.8'± LT.	1A	—	—	—	—	TOP	A-1	4	W-0T	2	LT
											3	RT
											2	RT

*INDICATES TYPE "E" BASE IS EXISTING W/2" CONDUIT.
** PECOS ROAD STATION. ALL OTHERS CHARLESTON BLVD. STATION.

NOTES CONTINUED

12. INSTALL THE OPTICOM SENSORS ON THE TRAFFIC SIGNAL HEAD AS SHOWN ON THIS DRAWING.
13. THE 200 AMP. SERVICE PEDESTAL SHALL HAVE A 200 AMP MAIN CIRCUIT BREAKER AND 1-60 AMP SINGLE POLE BREAKER FOR SIGNALS, AND 2- 40 AMP SINGLE POLE BREAKERS FOR INTERSECTION LIGHTING PLUS STREET LIGHTING REQUIREMENTS LISTED ON SHEET E-1.
14. EACH STREETLIGHT & INTERSECTION LUMINAIRE SHALL BE FUSED IN CABINET USING IN-LINE FUSE-HOLDERS.
15. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9"x12" WITH FULL MOUNTING BRACKET.
16. ALL CABLE & WIRING SHALL BE INSTALLED TERMINAL TO TERMINAL, NO SPLICES ALLOWED.
17. POLES "A", "B", "C" & "D" SHALL HAVE INTERNALLY ILLUMINATED STREET NAME SIGNS INSTALLED. SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTOCELL FOR CONTROL.
18. STREET NAME SIGNS ON POLES "A" & "C" SHALL READ "CHARLESTON BI ." AND THE STREET SIGNS ON POLES "B" & "D" SHALL READ "PECOS RD."
19. ALL SIGNAL POLES SHALL CONFORM TO C.L.V. STANDARD SPEC. 404.402 & 404.406 SHEETS 1 & 2.
20. LOOP DETECTORS TO BE LOCATED IN THE FIELD BY C.L.V.
21. INTERSECTION LIGHTING LUMINAIRES SHALL BE 400W HPS WITH MC111 DISTRIBUTION, INDIVIDUAL PHOTOCELL CONTROL AND BUILT IN BALLAST (120VAC) G.E. M400A CUTOFF TYPE.
22. EXISTING AND NEW PULLBOXES ARE AS INDICATED ON THIS DRAWING.
23. CONDUIT RUNS NUMBER 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 AND 26 ARE EXISTING.
24. CONDUIT RUNS NUMBER 4 AND 5 ARE STUBBED OUT.
25. INSTALL A 6 PAIR INTERCONNECT CABLE BETWEEN CHARLESTON AND STEWART - CABLE PER PROJECT SPECIFICATION, PAGE 623-2.
26. ALL REMOVED STREET LIGHTING MATERIAL SHALL BE RETURNED TO THE ELECTRICAL SHOP, CITY YARDS, 3100 E. BONANZA ROAD.

REV	DATE	DESCRIPTION
1	8/6/84	REVISE SIGNAL POLE LOC

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — MICHAEL J. HOWARTH — No. 4417 — CIVIL — 8/24/43
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — WILLIAM E. HOWARTH — No. 2013 — ELECTRICAL — 8/24/43

Cohen Kanwar Williams
CIVIL ENGINEERS & LAND SURVEYORS
4025 SOUTH SPENCER STREET, SUITE 225
LAS VEGAS, NEVADA 89119
(702) 736-6610 FAX (702) 736-6811

G. C. WALLACE
Consulting Engineers, Inc.
1100 East Sahara Ave. • Las Vegas, Nevada 89104 • 732-3330

DEPARTMENT OF PUBLIC SERVICES
PECOS ROAD
TRAFFIC SIGNAL SYSTEM - CHARLESTON BLVD.

SHEET E-6 OF 61 SHEETS

JOB NO. 412.160

9/78 DIETERICH-POST 65328

29-L 74 107-V1245