CONSTRUCTION NOTES

1. REMOVE EXISTING STOP SIGN AFTER THE SIGNAL IS FULLY FUNCTIONAL AND REMOVE STREET NAME SIGN AND POSTS AFTER ILLUMINATED STREET NAME SIGN IS INSTALLED. THE SALVAGED MATERIALS TO BE DELIVERED TO 3104 E. BONANZA RD. INSTALL TEMPORARY SIGN ON EASTBOUND APPROACH AS NEEDED.
2. INSTALL 8# CONTROLLER IN TYPE "R" CABINET ACCORDING TO CITY OF LAS VEGAS SPECIFICATIONS. INSTALL TYPE "R" CONTROLLER CABINET ACCORDING TO U.S.D.C.C.A. NO. 404.307.
3. INSTALL EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR FIRE PREEMPTION AS SPECIFIED IN THE SPECIFICATIONS. THE OPTICAL DETECTORS SHALL BE MOUNTED ON TOP OF THE LEFT MOST HEADS OF POLES "A" AND "D".
4. REMOVE EXISTING STREETLIGHT POLE ASSEMBLY. REMOVE FOUNDATION TO 3' (3 FEET) BELOW GRADE. INSTALL #3 1/2 PULLBOX OVER CONDUIT. MAINTAIN STREETLIGHT CIRCUIT. DELIVER STREETLIGHT POLE ASSEMBLY TO 3104 E. BONANZA ROAD.
5. INSTALL CAMERA AND RUN CABLES TO BASE OF POLE. CONTRACTOR TO PROVIDE POWER AND 8281 CABLE FROM CONTROLLER TO POLE BASE. "BNC" CONNECTORS AT END OF CABLE. CAMERA LOCATION TO BE DETERMINED BY MANUFACTURER'S REPRESENTATIVE CONTRACTOR IS ALSO RESPONSIBLE FOR SUPPLYING A MANUFACTURER'S REPRESENTATIVE FOR TURN ON.
6. INSTALL 200 AMP SERVICE PEDESTAL THE SERVICE SHALL HAVE A 60 AMP SINGLE POLE BREAKER FOR TRAFFIC SIGNALS. A 40 AMP SINGLE POLE BREAKER FOR STREET LIGHTS.
7. REMOVE EXISTING STREET LIGHT.
8. PHOTO EYE IS TO BE MOUNTED IN POLE TOP CAP AND POWER VIA #10 AWG WIRE RUN AS IN OTHER POLES.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL TRAFFIC SIGNAL PULLBOXES SHALL BE NO. 7

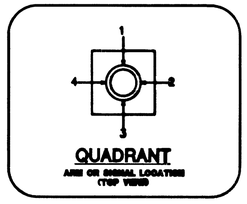
SIGN SCHEDULE			
POLE	INTERNALLY ILLUMINATED STREET NAME SIGN		
(A)	N	H	ST 900
(B)	W	WASHINGTON	AVE 800
(C)	N	H	ST 500
(D)	W	WASHINGTON	AVE 700

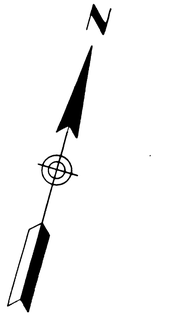
SEE USD DRAWINGS 404.417 AND 404.420. MODIFY PANEL LAYOUT AND LETTER SIZES PER DRAWING AND NOTES BELOW

STANDARD PANEL LENGTH OF 8'
SMALL TEXT (DIRECTION AND BLOCK NUMBER) IS 6" SERIES C.
LARGE TEXT (STREET NAME) IS 8" SERIES D UPPER.
KERNING VALUE 100%
PANEL SIZE 96"X16.5"
IMAGE AREA IS 1" SMALLER TO ALLOW FOR THE SIGN FRAME

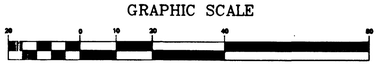
CONTRACTOR TO OBTAIN APPROVAL OF STREET NAME SIGN LAYOUT FROM TRAFFIC ENGINEERING FIELD OPERATIONS SUPERVISOR, 229-6331, PRIOR TO ORDERING SIGNS.

BLOCK NUMBER SIGN TO BE CENTERED ON ILLUMINATED STREET NAME SIGN.





GRAPHIC SCALE



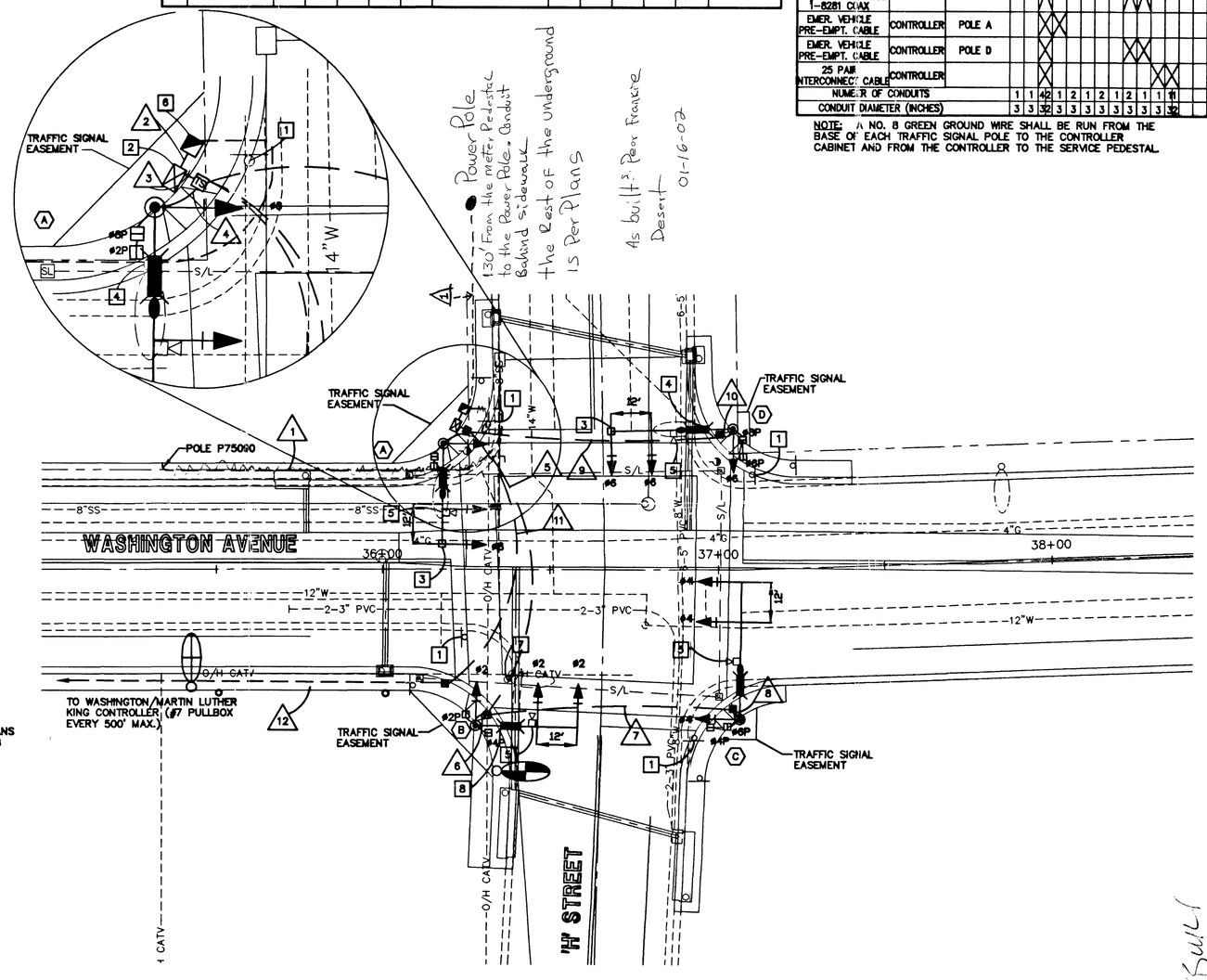
POLE SCHEDULE

POLE	LOCATION-STA.	POLE TYPE	POLE SIG. QUAD.	POLE ARM LNG.	POLE LUM. QUAD.	POLE ARM LNG.	SIGNALS (VEH.) TYPE	SIGNALS (VEH.) QUAD.	SIGNALS (PED.) TYPE	SIGNALS (PED.) QUAD.	PED. PUSH BUTTON QUAD.	PED. PUSH BUTTON SIGN ARROW	REMARKS
A	36+18.2 37.9' LT	XX	3	38'	3	15'	M-2 (2) 8-1T	MA 1	W-4T	1	2 3	LT RT	0' RISE LUMINAIRE ARM
B	36+28.1 46.5 RT	XX	2	38'	-		M-2 (2) 8-1T	MA 4	W-3T	4	1 2	LT RT	20' POLE NO LUMINAIRE
C	37+06.5 44.6' RT	XX	1	46'	1	15'	M-2 (2) 8-1T	MA 3	W-4T	3	4 1	LT RT	
D	37+04.3 42.2' LT	XX	4	38'	4	15'	M-2 (2) 8-1T	MA 2	W-4T	2	3 4	LT RT	

CONDUIT & WIRE SCHEDULE

WIRE & CABLE	FROM	TO	VIA CONDUIT
3 #3/0 AWG/THW	SERVICE POINT	SERVICE PEDESTAL	1
2 WHT, 2 BLK THW 4 #4, 1 #8	SERVICE PEDESTAL	CONTROLLER	1
25 C #14 2 #10, 1 #8 3 #16 PVC JKT CBL 1-8281 COAX	CONTROLLER	POLE A	2
25 C #14 2 #10, 1 #8 3 #16 PVC JKT CBL 1-8281 COAX	CONTROLLER	POLE B	3
25 C #14 2 #10, 1 #8 3 #16 PVC JKT CBL 1-8281 COAX	CONTROLLER	POLE C	4
25 C #14 2 #10, 1 #8 3 #16 PVC JKT CBL 1-8281 COAX	CONTROLLER	POLE D	5
EMER. VEHICLE PRE-EMPT. CABLE	CONTROLLER	POLE A	6
EMER. VEHICLE PRE-EMPT. CABLE	CONTROLLER	POLE D	7
25 PAIR INTERCONNECT CABLE	CONTROLLER		8
NUMBER OF CONDUITS			1 1 42 1 2 1 2 1 2 1 1 1 11
CONDUIT DIAMETER (INCHES)			3 3 32 3 3 3 3 3 3 3 3 3 32

NOTE: A NO. 8 GREEN GROUND WIRE SHALL BE RUN FROM THE BASE OF EACH TRAFFIC SIGNAL POLE TO THE CONTROLLER CABINET AND FROM THE CONTROLLER TO THE SERVICE PEDESTAL.



TRAFFIC SIGNAL NOTES
CITY OF LAS VEGAS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 48 HOURS PRIOR TO CONSTRUCTION.

   CALL-BEFORE-YOU-DIG 1-800-227-2600

2. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
3. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG, LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG (2 BLACK, 2 WHITE) AND ONE #8 AWG (GREEN).
4. LUMINAIRES ON ALL SIGNAL POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL AND BUILT IN BALLAST (120V.A.C.). FOR LUMINAIRES THERE SHALL BE A #4 AWG THW CONDUCTOR FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTOR SHALL BRANCH OFF INTO 4 EACH #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
5. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG COPPER STRANDED WIRE (TYPICAL).
6. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
7. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
8. TRAFFIC SIGNAL CABLE SHALL BE 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) SPEC. NO. 20-1. ALL VEHICLE DETECTION WILL BE BY VIDEO.
9. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" x 12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 36" ABOVE SIDEWALK THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". PUSH BUTTONS ARE TO BE ADA COMPATIBLE PER SUPPLEMENTAL SPECIFICATIONS 623.T02.12. SIDEWALK RAMPS WILL BE ACCORDING TO USD NO. 235 (1-4) DATED 6-13-96.
10. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER.
11. INSTALL 8# CONTROLLER IN TYPE 'R' CABINET BUILT TO UNIFORM STANDARD SPECIFICATIONS.
12. VIDEO DETECTION SYSTEM SUPPLIED BY CLV TRAFFIC OPERATIONS MUST BE INSTALLED. EACH VIDEO CAMERA WILL HAVE POWER (3-#16 PVC JACKETED CABLE & WIRE WILL BE SUPPLIED BY CONTRACTOR) AND 8281 COAXIAL CABLE DIRECTLY FROM THE CABINET TO THE POLE BASE. THE MANUFACTURER'S REPRESENTATIVE SHALL DETERMINE THE OPTIMUM LOCATION FOR THE CAMERA ON THE TRAFFIC SIGNAL POLE. "BNC" CONNECTORS ARE THE ONLY ACCEPTABLE TERMINATION OF CABLES.
13. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED.
14. ALL RED LIGHTS SHALL BE LED. SEE SPECIFICATIONS FOR DETAILS.

PHASE DIAGRAM

1 FUTURE	2	3 NOT USED	4
5 FUTURE	6	7 NOT USED	8

CONFLICT FLASH SHALL BE ALL RED.

Call before you Dig. 1-800-227-2600

SAFETY ALERT
Call before you Overhead 593-6111

Carter :: Burgess
Consultants in Planning, Engineering, Construction Management, and Related Services
6655 Bermuda Road
Las Vegas, NV 89119
(702) 938-5400 Fax (702) 938-5454

NO.	DESCRIPTION	DATE	APP'D

DATE : 07/25/99
PM : MYRON WELSH
DRAWN BY : KBH
DESIGNED BY : KBH
CHECKED BY : DKF
ADA CHECKED :
JOB NO. : 99V097
SCALE : 1" = 20'

PENTACORE
CIVIL ENGINEERING • LAND SURVEYING • PLANNING
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6763 WEST CHARLESTON BOULEVARD
LAS VEGAS, NEVADA 89102 (702)258-0115

CITY OF LAS VEGAS
WASHINGTON AVENUE
TRAFFIC SIGNAL PLAN
WASHINGTON AVENUE AND H STREET INTERSECTION

PROFESSIONAL ENGINEER STATE OF NEVADA KEITH B. HELMUTH CIVIL No. 9559 01-16-02

SHEET 28
T-1
OF 39

DWG. NO. 107-V3119

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