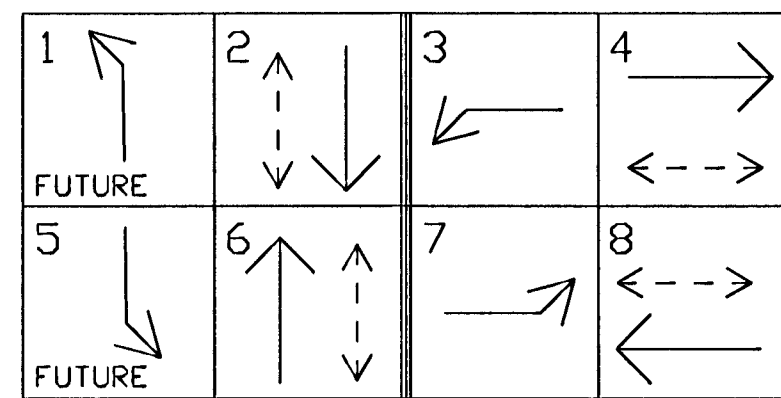


TRAFFIC SIGNAL NOTES
CITY OF LAS VEGAS

- 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 72 HOURS PRIOR TO CONSTRUCTION.
CALL-BEFORE-YOU-DIG 1-800-227-2600
- 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.
- SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL AND 2-40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
- LINE SIDE OF METER TO BE WIRED WITH THREE #2 AVG. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AVG (3 BLACK, 1 WHITE) AND ONE #4 AVG (GREEN).
- ALL LUMINAIRES SHALL BE 750 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 (120 V.A.C.). EACH STREET LUMINAIRE SHALL BE FUSED IN THE CABINET USING IN-LINE FUSE HOLDERS. THE NORTHEAST AND SOUTHWEST LUMINAIRES SHALL BE WIRED TO ONE 40 AMP SINGLE POLE BREAKER, AND THE SOUTHEAST AND NORTHWEST LUMINAIRES SHALL BE WIRED TO THE SECOND 40 AMP SINGLE POLE BREAKER.
- THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL FOR CONTROL.
- CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
- ALL PULLBOXES SHALL BE IN ACCORDANCE WITH CCA STANDARD DRAWINGS 404.110, 404.120, AND 404.130.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AVG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1. ALL SIGNAL DETECTION WILL BE BY VIDEO. INTERCONNECT CABLE SHALL BE 12 PAIR OF #22 AVG SHIELD REA SPEC. PE 39.
- ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKETS. ALL PUSHBUTTONS TO BE ADA COMPATIBLE.
- 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.
- EACH CONTROLLER CABINET SHALL HAVE SPECIAL CIRCUITRY INSTALLED WHICH, UPON EXTERNAL COMMAND FROM THE LVACTS COMPUTER, CAUSES THE 5-SECTION LEFT TURN SIGNAL HEAD DISPLAY TO OPERATE EITHER IN PROTECTED-ONLY, OR PROTECTED/PERMISSIVE DISPLAY SEQUENCE. SUFFICIENT QUANTITIES OF THE CIRCUIT SHALL BE INSTALLED TO GIVE THIS SEQUENCING CAPABILITY IN ALL DIRECTIONS WHERE LEFT TURN PHASING IS PROVIDED, REGARDLESS OF WHETHER SUCH LEFT TURN PHASING IS, OR IS NOT, PROTECTED/PERMISSIVE.
- IF M-5 SIGNAL HEADS ARE USED THEN MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEADS.
- INSTALL #8 CONTROLLER IN TYPE 'R' CABINET. INSTALL CABINET NEAR R.D.V. LINE.
- THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, AND SIGNS AS IDENTIFIED ON THE PLANS.

PHASE DIAGRAM



ALL LEFT TURNS ARE PROTECTED/PERMISSIVE
CONFLICT FLASH SHALL BE ALL RED.

PLACE ALL NEW SIGNAL POLES OUT OF SIDEWALK AREA, OR WIDEN SIDEWALK TO PROVIDE 5' PEDESTRIAN PATH.

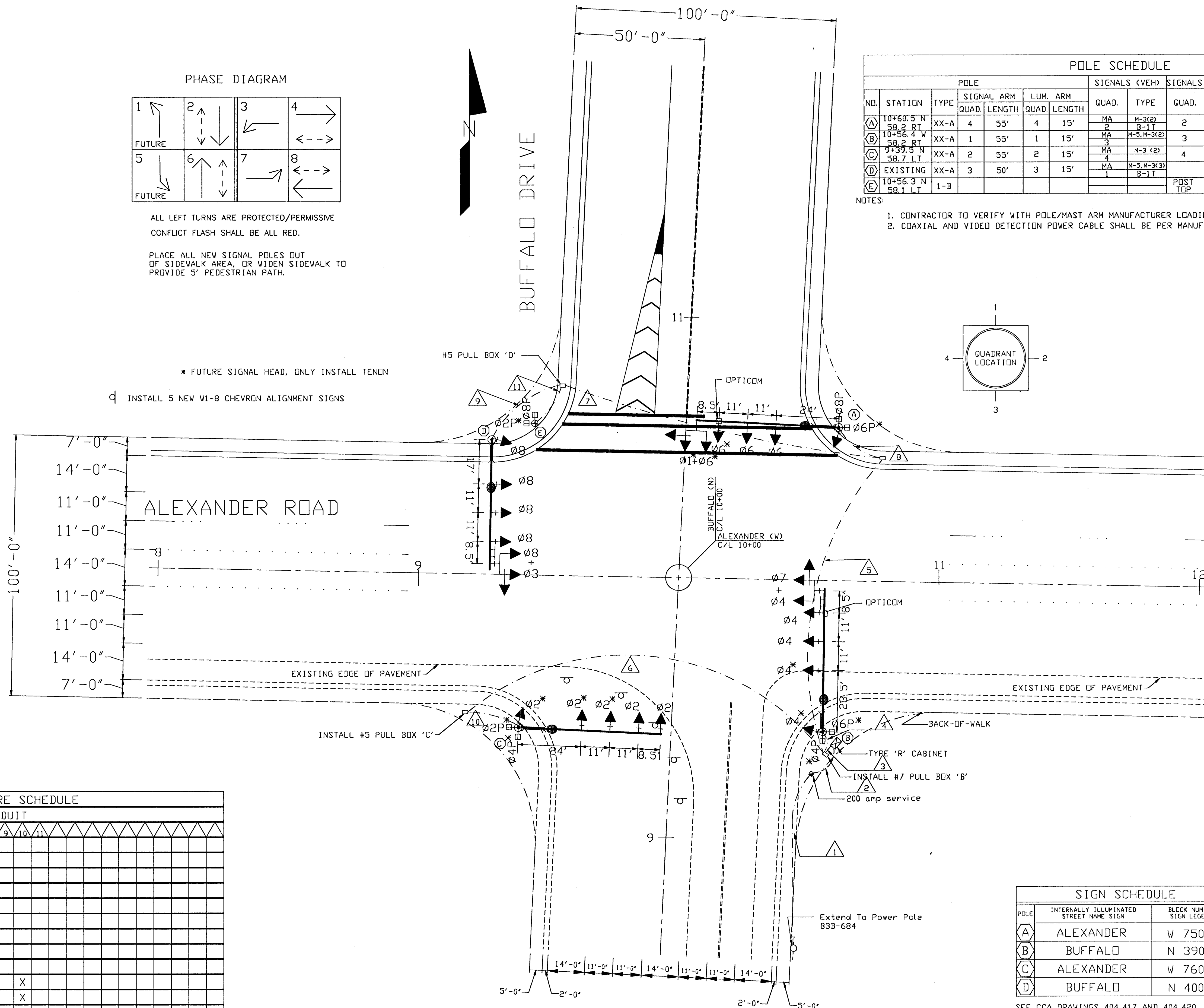
* FUTURE SIGNAL HEAD, ONLY INSTALL TENDON

INSTALL 5 NEW W1-8 CHEVRON ALIGNMENT SIGNS

POLE SCHEDULE											
NO.	STATION	TYPE	SIGNAL ARM		LUM. ARM		SIGNALS (VEH)		SIGNALS (PED)		REMARKS
			QUAD.	LENGTH	QUAD.	LENGTH	QUAD.	TYPE	QUAD.	TYPE	
(A)	10+60.5 N 58.2 RT	XX-A	4	55'	4	15'	MA	M-3(2)	2	W-0T	
(B)	10+56.4 W 58.2 RT	XX-A	1	55'	1	15'	MA	M-3, M-3(2)	3		INSTALL R10-12 SIGN
(C)	9+39.5 N 58.7 LT	XX-A	2	55'	2	15'	MA	M-3 (2)	4		INSTALL R10-12 SIGN
(D)	EXISTING	XX-A	3	50'	3	15'	1	B-1T			
(E)	10+56.3 N 58.1 LT	1-B							POST TOP	W-1	

NOTES:

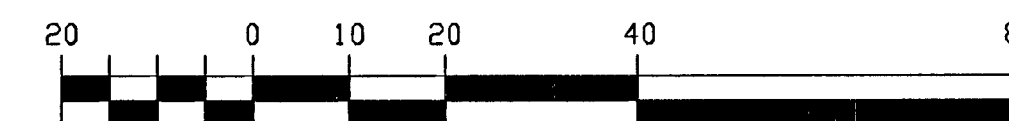
- CONTRACTOR TO VERIFY WITH POLE/MAST ARM MANUFACTURER LOADING FACTORS.
- COAXIAL AND VIDEO DETECTION POWER CABLE SHALL BE PER MANUFACTURERS' SPECIFICATIONS.



CONDUIT AND WIRE SCHEDULE																	
WIRE & CABLE	FROM	TO	VIA CONDUIT														
			1	2	3	4	5	6	7	8	9	10	11				
4 #4 SERVICE PEDESTAL	CONTROLLER	CONTROLLER	X														
25C #14 VIDEO	CONTROLLER	POLE B		X	X												
OPTICOM	CONTROLLER	POLE B		X	X												
2 #10	CONTROLLER	POLE B		X	X												
25C #14 VIDEO	CONTROLLER	POLE A		X	X			X									
OPTICOM	CONTROLLER	POLE A		X	X			X									
2 #10	CONTROLLER	POLE A		X	X			X									
25C #14 VIDEO	CONTROLLER	POLE C		X		X		X									
2 #10	CONTROLLER	POLE C		X		X		X									
25C #14 VIDEO	CONTROLLER	POLE D		X	X	X	X	X									
2 #10	CONTROLLER	POLE D		X	X	X	X	X									
15C #14	CONTROLLER	POLE E		X	X	X		X									
NO. OF COND. - SIZE			1-3"	1-3"	6-3"	1-3"	3-3"	1-3"	2-3"	1-3"	6-3"	1-3"	1-3"				

SIGN SCHEDULE		
POLE	INTERNALLY ILLUMINATED STREET NAME SIGN	BLOCK NUMBER SIGN LEGEND
(A)	ALEXANDER	W 7500
(B)	BUFFALO	N 3900
(C)	ALEXANDER	W 7600
(D)	BUFFALO	N 4000

SEE CCA DRAWINGS 404.417 AND 404.420. BLOCK NUMBER SIGN TO BE CENTERED ON ILLUMINATED STREET NAME SIGN.



THE FOLLOWING UNDERGROUND UTILITIES MAY BE LOCATED IN THE PROJECT AREA. STREETLIGHTING, TRAFFIC SIGNALS, STORM DRAIN, INTERCONNECT CABLE, WATER, SEWER, ELECTRICAL, GAS, AND CABLE TELEVISION. CALL CALL BEFORE YOU DIG AT 1 800 227-2600 AT LEAST 24 HOURS PRIOR TO WORKING IN THE AREA. CALLING CALL BEFORE YOU DIG DOES NOT RELIEVE THE CONTRACTOR OF ANY LIABILITY FOR DAMAGED UNDERGROUND UTILITIES.

125966

DEPARTMENT OF PUBLIC WORKS
ANNUAL TRAFFIC SIGNAL PROGRAM
ALEXANDER AT BUFFALO
SIGNALIZATION PLAN

DATE: DEC. 10, 1996
DRAWING NO.: 208-V435
SHEET 1 OF 1

DRAWN BY: JRB
CHECKED BY: GPM
JOB NO.: P96269 1

PROFESSIONAL ENGINEER
STATE OF NEVADA
R. BIRD
CIVIL
NO. 10100
12-10-96

DRAWING NO. 208-435 1/1