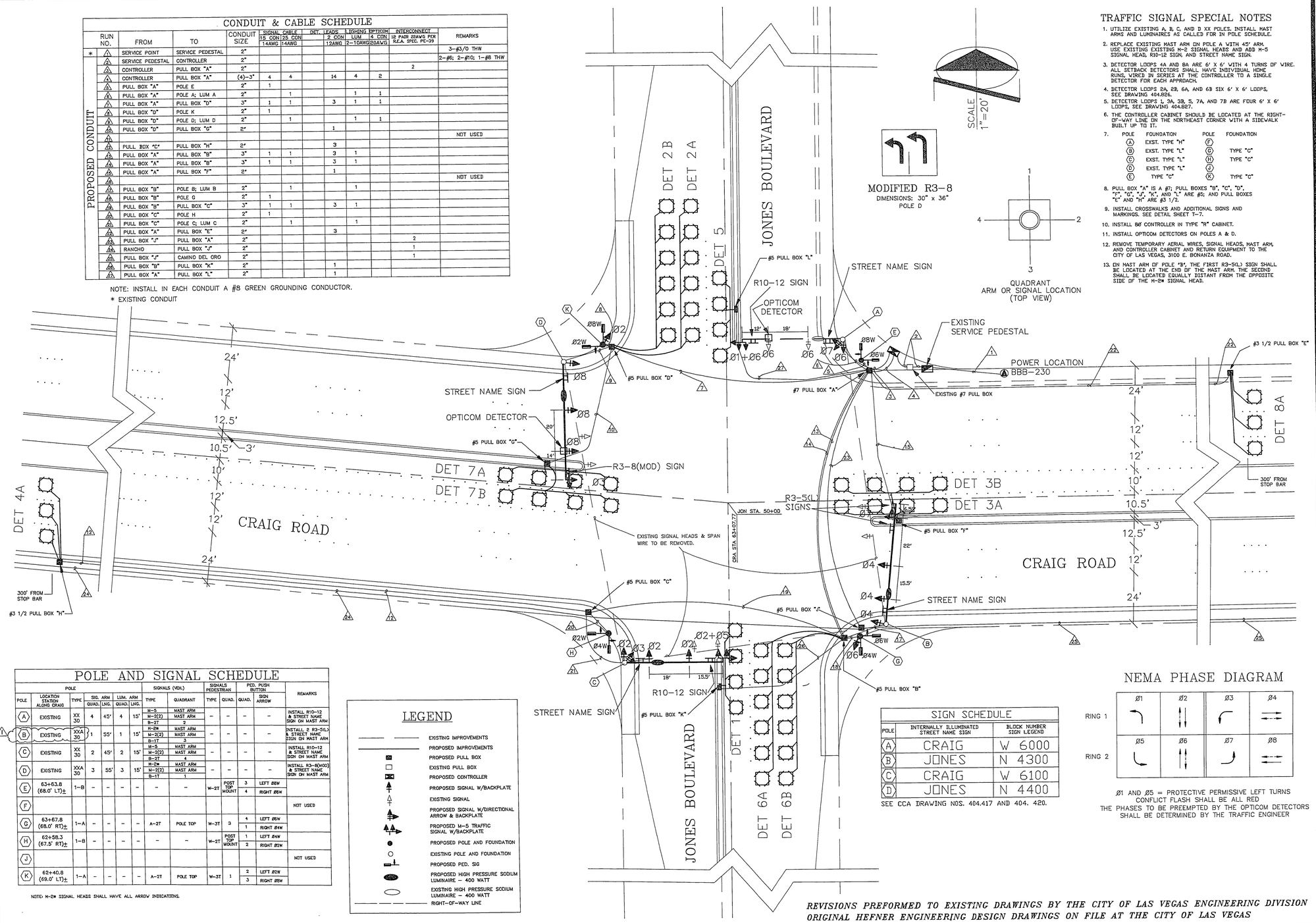
CONDUIT & CABLE SCHEDULE

	RUN NO.	FROM	TO	CONDUIT SIZE	SIGNAL CABLE 15 CON 14AWG	SIGNAL CABLE 29 CON 14AWG	DET. LEADS 2 CON 12AWG	LIGHTING LUM 2-10AWG	OPTICOM 4 CON 20AWG	INTERCONNECT 18 PAIR 22AWG PER R.E.A. SPEC. PE-39	REMARKS
*		SERVICE POINT	SERVICE PEDESTAL	2"							3-#3/0 THW
PROPOSED CONDUIT	2	SERVICE PEDESTAL	CONTROLLER	2"							2-#6; 2-#10; 1-#8 THW
	2	CONTROLLER	PULL BOX "A"	2"						2	
	2	CONTROLLER	PULL BOX "A"	(4)-3"	4	4	14	4	2		
	2	PULL BOX "A"	POLE E	2"	1						
	2	PULL BOX "A"	POLE A; LUM A	2"		1		1	1		
	2	PULL BOX "A"	PULL BOX "D"	3"	1	1	3	1	1		
	2	PULL BOX "D"	POLE K	2"	1						
	2	PULL BOX "D"	POLE D; LUM D	2"		1		1	1		
	2	PULL BOX "D"	PULL BOX "G"	2"			1				
	2										NOT USED
	2	PULL BOX "C"	PULL BOX "H"	2"			3				
	2	PULL BOX "A"	PULL BOX "B"	3"	1	1	3	1			
	2	PULL BOX "A"	PULL BOX "B"	3"	1	1	3	1			
	2	PULL BOX "A"	PULL BOX "F"	2"			1				
	2										NOT USED
	2	PULL BOX "B"	POLE B; LUM B	2"		1		1			
	2	PULL BOX "B"	POLE G	2"	1						
	2	PULL BOX "B"	PULL BOX "C"	3"	1	1	3	1			
	2	PULL BOX "C"	POLE H	2"	1						
	2	PULL BOX "C"	POLE C; LUM C	2"		1		1			
	2	PULL BOX "A"	PULL BOX "E"	2"			3				
	2	PULL BOX "J"	PULL BOX "A"	2"						2	
	2	RANCHO	PULL BOX "J"	2"						1	
	2	PULL BOX "J"	CAMINO DEL ORO	2"						1	
	2	PULL BOX "B"	PULL BOX "K"	2"			1				
	2	PULL BOX "A"	PULL BOX "L"	2"			1				

NOTE: INSTALL IN EACH CONDUIT A #8 GREEN GROUNDING CONDUCTOR.

* EXISTING CONDUIT



TRAFFIC SIGNAL SPECIAL NOTES

1. UTILIZE EXISTING A, B, C, AND D XX POLES. INSTALL MAST ARMS AND LUMINAIRES AS CALLED FOR IN POLE SCHEDULE.
2. REPLACE EXISTING MAST ARM ON POLE A WITH 45' ARM. USE EXISTING EXISTING M-2 SIGNAL HEADS AND ADD M-5 SIGNAL HEAD, R10-12 SIGN, AND STREET NAME SIGN.
3. DETECTOR LOOPS 4A AND 8A ARE 6' X 6' WITH 4 TURNS OF WIRE. ALL SETBACK DETECTORS SHALL HAVE INDIVIDUAL HOME RUNS, WIRED IN SERIES AT THE CONTROLLER TO A SINGLE DETECTOR FOR EACH APPROACH.
4. DETECTOR LOOPS 2A, 2B, 6A, AND 6B SIX 6' X 6' LOOPS, SEE DRAWING 404.826.
5. DETECTOR LOOPS 1, 3A, 3B, 5, 7A, AND 7B ARE FOUR 6' X 6' LOOPS, SEE DRAWING 404.827.
6. THE CONTROLLER CABINET SHOULD BE LOCATED AT THE RIGHT-OF-WAY LINE ON THE NORTHEAST CORNER WITH A SIDEWALK BUILT UP TO IT.
7.

POLE	FOUNDATION	POLE	FOUNDATION
(A)	EXST. TYPE "H"	(F)	
(B)	EXST. TYPE "L"	(G)	TYPE "C"
(C)	EXST. TYPE "L"	(H)	TYPE "C"
(D)	EXST. TYPE "L"	(J)	
(E)	TYPE "C"	(K)	TYPE "C"

8. PULL BOX "A" IS A #7; PULL BOXES "B", "C", "D", "F", "G", "J", "K", AND "L" ARE #5; AND PULL BOXES "E" AND "H" ARE #3 1/2.
9. INSTALL CROSSWALKS AND ADDITIONAL SIGNS AND MARKINGS. SEE DETAIL SHEET T-7.
10. INSTALL B&F CONTROLLER IN TYPE "R" CABINET.
11. INSTALL OPTICOM DETECTORS ON POLES A & D.
12. REMOVE TEMPORARY AERIAL WIRES, SIGNAL HEADS, MAST ARM, AND CONTROLLER CABINET AND RETURN EQUIPMENT TO THE CITY OF LAS VEGAS, 3100 E. BONANZA ROAD.
13. ON MAST ARM OF POLE "B", THE FIRST R3-5(L) SIGN SHALL BE LOCATED AT THE END OF THE MAST ARM. THE SECOND SHALL BE LOCATED EQUALLY DISTANT FROM THE OPPOSITE SIDE OF THE M-2# SIGNAL HEAD.

POLE AND SIGNAL SCHEDULE

POLE	LOCATION STATION ALONG CRAIG	TYPE	SIG. ARM QUAD.	SIG. ARM LNG.	LUM. ARM QUAD.	LUM. ARM LNG.	SIGNALS (VEH.) TYPE	SIGNALS (VEH.) QUADRANT	SIGNALS PEDESTRIAN TYPE	SIGNALS PEDESTRIAN QUAD.	PED. PUSH BUTTON QUAD.	PED. PUSH BUTTON SIGN ARROW	REMARKS
(A)	EXISTING	XX 30	4	45'	4	15'	M-5 M-2(2) B-2T	MAST ARM MAST ARM 2	–	–	–	–	INSTALL R10-12 & STREET NAME SIGN ON MAST ARM
(B)	EXISTING	XXA 30	1	55'	1	15'	H-2# M-2(2) B-1T	MAST ARM MAST ARM 3	–	–	–	–	INSTALL 2 R3-5(L) & STREET NAME SIGN ON MAST ARM
(C)	EXISTING	XX 30	2	45'	2	15'	M-5 M-2(2) B-2T	MAST ARM MAST ARM 4	–	–	–	–	INSTALL R10-12 & STREET NAME SIGN ON MAST ARM
(D)	EXISTING	XXA 30	3	55'	3	15'	H-2# M-2(2) B-1T	MAST ARM MAST ARM 1	–	–	–	–	INSTALL R3-8(MOD) & STREET NAME SIGN ON MAST ARM
(E)	63+63.8 (68.0' LT)±	1-B	–	–	–	–	–	–	W-2T	POST TOP MOUNT	3 4	LEFT Ø6W RIGHT Ø8W	
(F)													NOT USED
(G)	63+67.8 (68.0' RT)±	1-A	–	–	–	–	A-2T	POLE TOP	W-3T	3	4 1	LEFT Ø6W RIGHT Ø4W	
(H)	62+58.3 (67.5' RT)±	1-B	–	–	–	–	–	–	W-2T	POST TOP MOUNT	1 2	LEFT Ø4W RIGHT Ø2W	
(J)													NOT USED
(K)	62+40.8 (69.0' LT)±	1-A	–	–	–	–	A-2T	POLE TOP	W-3T	1	2 3	LEFT Ø2W RIGHT Ø8W	

NOTE: M-2# SIGNAL HEADS SHALL HAVE ALL ARROW INDICATIONS.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- PROPOSED PULL BOX
- EXISTING PULL BOX
- PROPOSED CONTROLLER
- PROPOSED SIGNAL W/BACKPLATE
- EXISTING SIGNAL
- PROPOSED SIGNAL W/DIRECTIONAL ARROW & BACKPLATE
- PROPOSED M-5 TRAFFIC SIGNAL W/BACKPLATE
- PROPOSED POLE AND FOUNDATION
- EXISTING POLE AND FOUNDATION
- PROPOSED PED. SIG
- PROPOSED HIGH PRESSURE SODIUM LUMINAIRE – 400 WATT
- EXISTING HIGH PRESSURE SODIUM LUMINAIRE – 400 WATT
- RIGHT-OF-WAY LINE

SIGN SCHEDULE

POLE	INTERNALLY ILLUMINATED STREET NAME SIGN	BLOCK NUMBER SIGN LEGEND
(A)	CRAIG	W 6000
(B)	JONES	N 4300
(C)	CRAIG	W 6100
(D)	JONES	N 4400

SEE CCA DRAWING NOS. 404.417 AND 404. 420.

NEMA PHASE DIAGRAM

Ø1 AND Ø5 = PROTECTIVE PERMISSIVE LEFT TURNS
CONFLICT FLASH SHALL BE ALL RED
THE PHASES TO BE PREEMPTED BY THE OPTICOM DETECTORS SHALL BE DETERMINED BY THE TRAFFIC ENGINEER

REVISIONS PREFORMED TO EXISTING DRAWINGS BY THE CITY OF LAS VEGAS ENGINEERING DIVISION
ORIGINAL HEFNER ENGINEERING DESIGN DRAWINGS ON FILE AT THE CITY OF LAS VEGAS

DATE	REVISION
7/92	CITY OF LAS VEGAS TRAFFIC ENGINEERING. TRAFFIC SIGNAL PLAN DESIGN REVISED

REVISIONS ONLY

HEFNER ENGINEERING
CIVIL ENGINEERING DESIGN
LAND PLANNING & DEVELOPMENT
4441 South Polaris Avenue, Las Vegas, Nevada 89103
Phone: (702) 798-1900

CRAIG ROAD
CRAIG ROAD & JONES BLVD.
SIGNAL PLANS

WO #:	LOS140
BY:	J.D.T./J.S.T.
DATE:	1/29/92
SCALE:	1" = 20'

SHEET NO.

T6-A.1

107-V1804

SHEET: 6 OF 11

SHT. 61/66

83-3-162