

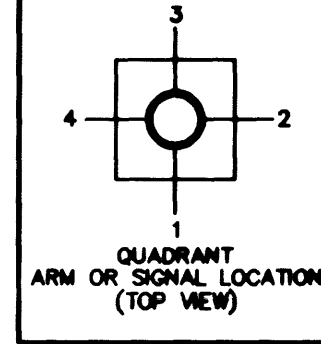
SHEET NOTES

- 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.
- ALL LUMINAIRES SHALL BE 400 WATT (750 WATT FOR 100'x100' SIGNALIZED INTERSECTIONS) HIGH PRESSURE SODIUM CUTOFF (G.E.M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.C. CONTROL, AND BUILT IN BALLAST (120 V.A.C.) EACH STREET LUMINAIRE SHALL BE FIRED 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 PULL BOXES ARE No. 5 UNLESS NOTED OTHERWISE AND SHALL BE CONCRETE AND HAVE CAST IRON COVERS MARKED "TRAFFIC SIGNAL". PULL BOXES SHALL BE LOCATED OUTSIDE SIDEWALK RAMP. ALL PULL BOXES SHALL BE IN ACCORDANCE WITH COA STANDARD DRAWINGS 404.110, 404.120, AND 404.130.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG 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 AWG SHIELD REA SPEC. PE 39.
- ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL BE 9"x12" WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE ADA COMPATIBLE.
- CONDUIT LOCATIONS AS SHOWN ON THE DRAWINGS ARE FOR CLARITY OF RUNS ONLY. ALL CONDUIT RUNS, EITHER SINGLE OR MULTIPLE, SHALL RUN CORNER TO CORNER. MULTIPLE RUNS NOT TERMINATING IN THE SAME PULL BOX SHALL PASS UNDER THE PULL BOX USING 90° ELBOWS AND CONTINUE TO THE NEXT CORNER OR TERMINATING POINT. ALL MULTIPLE CONDUIT RUNS SHALL BE PLACED IN THE SAME TRENCH WHENEVER POSSIBLE. THE PLACES 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 S-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 ON ALL DIRECTIONS WHERE LEFT TURN PHASING IS PROVIDED. REGARDLESS OF WHETHER SUCH LEFT TURN PHASING IS, OR IS NOT, PROTECTED/PERMISSIVE.
- IF M-E SIGNAL HEADS ARE USED THEN MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-S SIGNAL HEADS.
- INSTALL 80 CONTROLLER IN TYPE "R" CABINET. INSTALL CABINET NEAR R.O.W. LINE.
- ALL TRAFFIC SIGNAL POLE ASSEMBLIES SHALL BE GALVANIZED PER ASTM A.123 AND NOT PAINTED YELLOW OR SILVER.
- EXISTING R1-1, STREET NAME SIGNS, AND POSTS ARE TO BE REMOVED WHEN SIGNAL IS OPERATIONAL.

POLE SCHEDULE

POLE							SIGNALS VEHICLE		SIGNALS PEDESTRIAN		PED. PUSH BUTTON		REMARKS
POLE	LOCATION STATION	TYPE	SIGNAL ARM		LUMINAIRE ARM		TYPE	QUAD.	TYPE	QUAD.	QUAD.	SIGN ARROW	
A	37+06.83 57' LT.	XX-A	1	55'	1	15'	(2)M-2 (1)M-5 (1)B-14T	MAST ARM MAST ARM 3	W-3T	3	1 2	RIGHT LEFT	TYPE "L" FOUNDATION
B	38+07.53 58.64' LT.	XX-A	4	50'	4	15'	(2)M-2 (1)M-5 (1)B-14T	MAST ARM MAST ARM 2	W-3T	2	4 1	RIGHT LEFT	TYPE "L" FOUNDATION
C	38+01.03 57' RT.	XX-A	3	55'	3	15'	(2)M-2 (1)M-5 (1)B-14T	MAST ARM MAST ARM 1	W-3T	1	3 4	RIGHT LEFT	TYPE "L" FOUNDATION
D	37+05 61' RT.	XX-A	2	50'	2	15'	(1)M-2 (1)M-5 (1)B-14T	MAST ARM MAST ARM 4	W-3T	4	3 2	LEFT RIGHT	TYPE "L" FOUNDATION

ALL POLE LOCATIONS ARE BASED FROM DURANGO DRIVE STREET CENTERLINE STATIONING.
R10-12 SIGNS SHALL BE 24"x30"



LEGEND

MINIMUM LIMITS OF VIDEO DETECTION
300' FROM STOP BAR.

CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	1	2	3	4	5	6	7	8	9	10	11	12	13
(2) #4, (2) #8, #8 GROUND	SERVICE PED	CONTROLLER	●	●	●	●	●	●	●	●	●	●	●	●	●
25 CONDUCTOR	CONTROLLER	POLE A	●	●	●	●	●	●	●	●	●	●	●	●	●
25 CONDUCTOR	CONTROLLER	POLE B	●	●	●	●	●	●	●	●	●	●	●	●	●
25 CONDUCTOR	CONTROLLER	POLE C	●	●	●	●	●	●	●	●	●	●	●	●	●
25 CONDUCTOR	CONTROLLER	POLE D	●	●	●	●	●	●	●	●	●	●	●	●	●
(2) #10 THW, #8 GROUND	CONTROLLER	LUMINAIRE A	●	●	●	●	●	●	●	●	●	●	●	●	●
(2) #10 THW, #8 GROUND	CONTROLLER	LUMINAIRE B	●	●	●	●	●	●	●	●	●	●	●	●	●
(2) #10 THW, #8 GROUND	CONTROLLER	LUMINAIRE C	●	●	●	●	●	●	●	●	●	●	●	●	●
(2) #10 THW, #8 GROUND	CONTROLLER	LUMINAIRE D	●	●	●	●	●	●	●	●	●	●	●	●	●
VIDEO DETECTOR CABLES	CONTROLLER	VIDEO CAMERA A	●	●	●	●	●	●	●	●	●	●	●	●	●
VIDEO DETECTOR CABLES	CONTROLLER	VIDEO CAMERA B	●	●	●	●	●	●	●	●	●	●	●	●	●
VIDEO DETECTOR CABLES	CONTROLLER	VIDEO CAMERA C	●	●	●	●	●	●	●	●	●	●	●	●	●
VIDEO DETECTOR CABLES	CONTROLLER	VIDEO CAMERA D	●	●	●	●	●	●	●	●	●	●	●	●	●
OPTICOM CABLE	CONTROLLER	OPTICOM POLE B	●	●	●	●	●	●	●	●	●	●	●	●	●
OPTICOM CABLE	CONTROLLER	OPTICOM POLE C	●	●	●	●	●	●	●	●	●	●	●	●	●
12 PR INTERCONNECT CABLE	CONTROLLER	CHEYENNE/DURANGO	●	●	●	●	●	●	●	●	●	●	●	●	●
12 PR INTERCONNECT CABLE	CONTROLLER	ALEXANDER/DURANGO	●	●	●	●	●	●	●	●	●	●	●	●	●

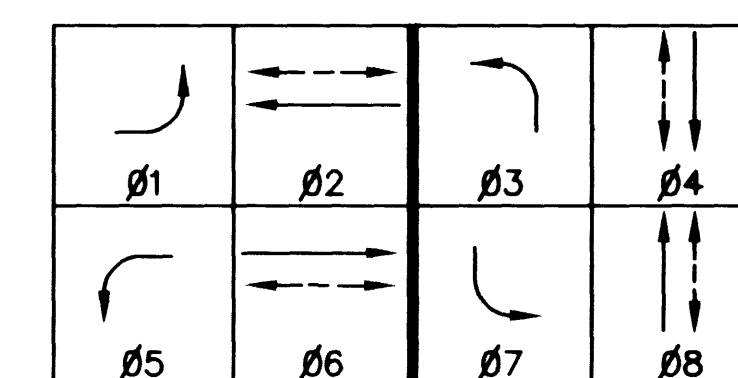
CONDUIT SIZE:

SEE SHEETS T4 & T9
FOR DELINIATION

STREET NAME & BLOCK NUMBER SIGN SCHEDULE

POLE	INTERNALLY ILLUMINATED STREET NAME SIGN	BLOCK NUMBER SIGN	QUADRANT FOR BLOCK NUMBER SIGN
A	GOWAN	W 8800	3
C	DURANGO	N 3600	2
G	GOWAN	W 8700	1
H	DURANGO	N 3500	4

PHASE DIAGRAM

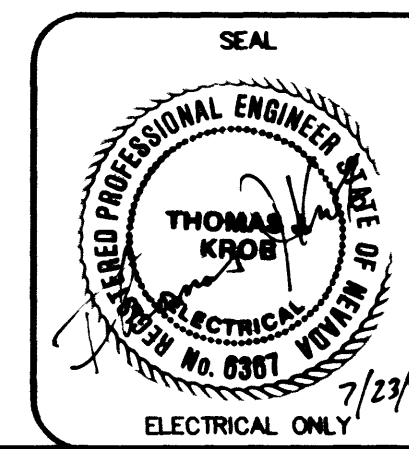
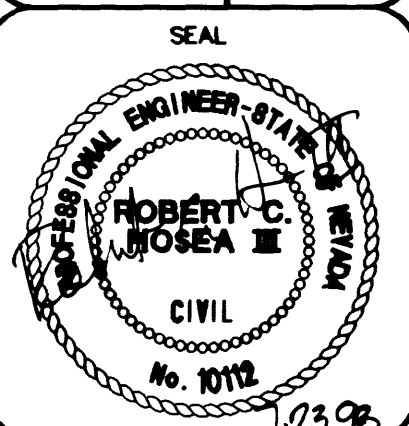


PHASE 1, 3, 5 AND 7 PROTECTIVE/PERMISSIVE
LEFT TURN. FLASHING OPERATION SHALL BE ALL
RED. OPTICOM PREEMPTION FOR PHASES 2, 4, 6, AND 8.

DEPARTMENT OF PUBLIC WORKS
CITY OF LAS VEGAS

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TRAFFIC SIGNAL
PLAN
DURANGO DRIVE / GOWAN ROAD
DURANGO DRIVE IMPROVEMENTS
CHEYENNE AVENUE TO LONE MOUNTAIN ROAD



WO. NO. 5249
BY RCH,WBM
DATE 07/17/98
SCALE HORIZ. 1"=20'
VERT. NONE
DRAWING SHEET
T12 07 OF 108
SHEET