

CITY OF LAS VEGAS

TRAFFIC SIGNAL GENERAL 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. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE FOLLOWING UTILITIES TO VERIFY THE EXACT LOCATION AND DEPTH. THE UTILITY SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
CALL-BEFORE-YOU-DIG 1-800-227-2600
- CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
- ALL CABLE AND WIRING SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICES.
- TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1. ALL LOOP LEAD-IN CABLE SHALL BE ONE TWISTED PAIR OF #12 AWG CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 19-2.
- ALL NEW DETECTOR LOOP INSTALLATIONS SHALL CONFORM TO C.C. AREA STANDARD DRAWINGS 404.800, 404.825, 404.826, AND 404.827.
- LOOP TERMINATIONS SHALL BE WIRED IN THE CONTROLLER CABINET TO THE PROPER PHASES.
- EACH DETECTOR LOOP LEAD-IN SHALL REQUIRE A SEPARATE AMPLIFIER UNIT.
- ALL PROPOSED DETECTOR LOOPS SHALL BE LOCATED IN THE CENTER OF THE LANES, UNLESS OTHERWISE NOTED ON PLANS.
- SEE C.C. AREA STD. DRAWING 404.801 (SHEET 2) FOR SPECIFICATIONS ON HOT MELT, RUBBERIZED ASPHALT SEALER FOR THE DETECTOR LOOPS.
- ALL PULL BOXES SHALL BE PRECAST REINFORCED CONCRETE AND HAVE CAST IRON COVERS MARKED "TRAFFIC SIGNALS".
- THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE TRAFFIC ENGINEER.
- ALL SIGNAL POLES SHALL CONFORM TO C.C. AREA STD. DRAWINGS 404.402 AND 404.406.
- THE FINAL LOCATION OF POLES AND DETECTOR LOOPS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE TRAFFIC ENGINEER.
- ALL PEDESTRIAN SIGNAL HEADS SHALL BE HAND/MAN SYMBOL AND SHALL BE ILLUMINATED BY INCANDESCENT LAMPS.
- ALL PEDESTRIAN PUSHBUTTON SIGNS SHALL BE 9" X 12" WITH FULL MOUNTING BRACKET, EXCEPT AS NOTED.
- ALL MAST ARMS, AS SPECIFIED ON THE TRAFFIC SIGNAL PLAN, SHALL HAVE INTERNALLY ILLUMINATED, DOUBLE FACED, STREET NAME SIGNS INSTALLED IN ACCORDANCE WITH C.C. AREA STANDARD DRAWINGS 404.417 AND 404.420. THE SIGNS SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL FOR CONTROL.
- EACH INTERSECTION LUMINAIRE SHALL BE FUSED IN THE CONTROLLER CABINET USING IN-LINE FUSEHOLDERS.
- CONTRACTOR SHALL FURNISH AND INSTALL A SINGLE METER, PADMOUNT SERVICE PER C.C. AREA STD. DRAWING NO. 404.1412 (SHEETS 1 AND 2), WITH ONE 60A, 1 POLE CIRCUIT BREAKER FOR THE TRAFFIC SIGNAL AND A 40A, 2 POLE CIRCUIT BREAKER FOR INTERSECTION LIGHTING. SERVICE SHALL BE SINGLE PHASE, 3 WIRE 120/240 VOLT AC, 200A. CABINET SHALL HAVE A GREEN BAKED FINISH.
- STREET LIGHTS SHALL CONSIST OF 400 WATT H.P.S. LUMINAIRES WITH ANSI/IES M.C. III DISTRIBUTION, INTEGRAL PHOTOELECTRIC (PE) CONTROL, 120 VOLT MAGNETIC REGULATING BALLAST, AND GLASS LENS WITH CHARCOAL FILTER; G.E. NO. M4AC40S1M2GMC32 OR APPROVED SUBSTITUTE.
- SIGNAL POLES SHALL PROVIDE FOR A 37' LUMINAIRE MOUNTING HEIGHT IN ACCORDANCE WITH C.C. AREA STD. DRAWING 404.406.
- EACH OPTICAL DETECTOR SHALL BE MOUNTED ON TOP OF A SIGNAL HEAD, AS SHOWN ON THE PLAN. THEY MUST BE COMPATIBLE TO OPTICOM DETECTORS ALREADY IN USE IN THE CITY; SEE C.C. AREA DRAWING 404.320 (SHEETS 1 THRU 5).
- ALL TRAFFIC SIGNAL HEADS SHALL HAVE 12" DIAMETER GLASS LENSES AND LOUVERED BACK PLATES.
- PULL BOX LOCATIONS, AS SHOWN ON THE PLAN, ARE FOR CLARITY ONLY. PULL BOXES SHALL NOT BE LOCATED WITHIN THE WHEELCHAIR RAMPS.

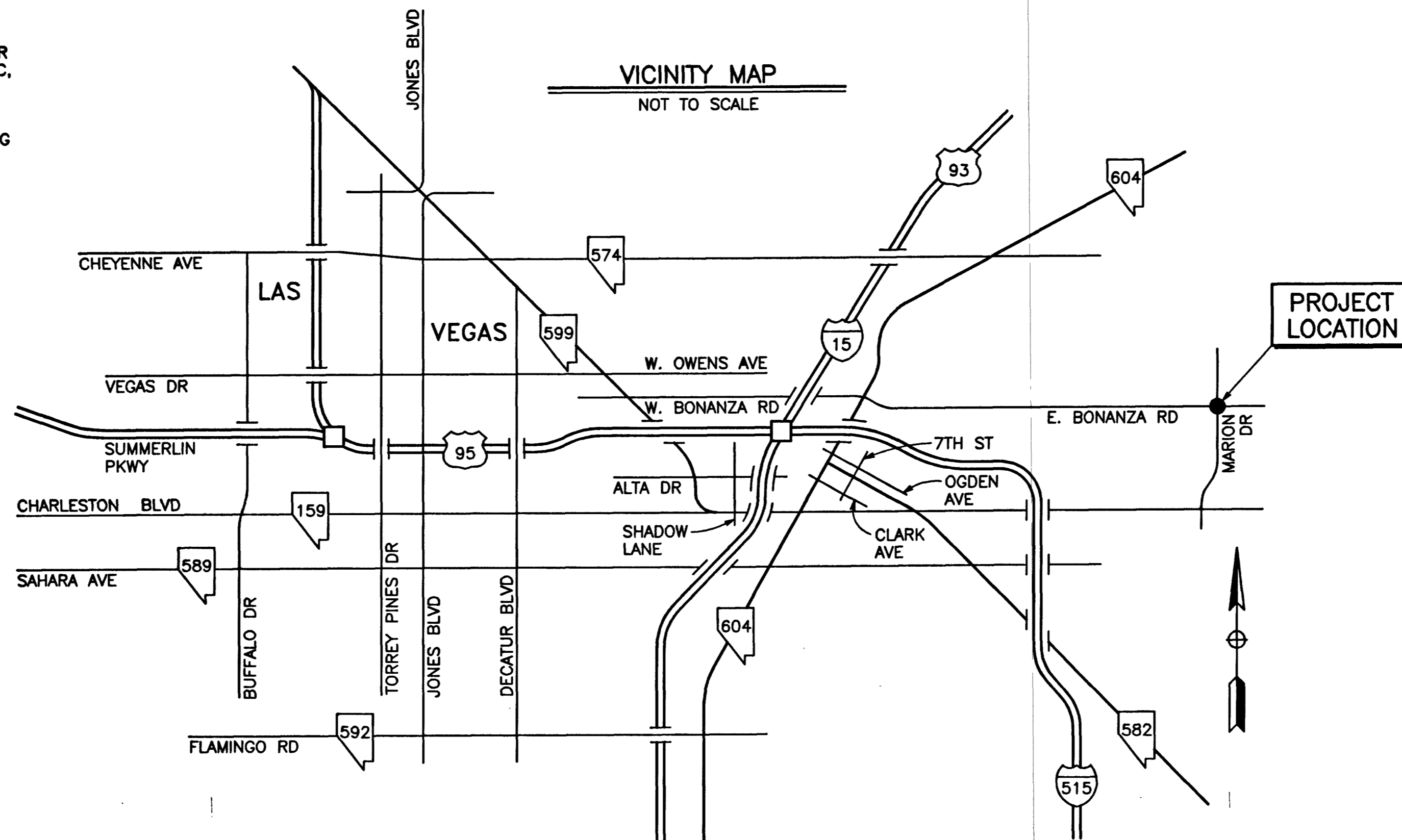
ABBREVIATIONS

ASPHALTIC CONCRETE	AC
ASBESTOS CONCRETE PIPE	ACP
BENCH MARK	BM
CENTERLINE	CL
TOP OF CURB	TC
EXISTING	EIST
FLOW LINE	FL
EDGE OF PAVEMENT	EP
BEGIN CURVE	BC
END CURVE	EC
BEGIN CURB RETURN	BCR
END CURB RETURN	ECR
DRIVE	DR
RIGHT-OF-WAY	R/W
FINISH SURFACE	FS
GROUND	GRD

TRAFFIC SIGNAL IMPROVEMENTS AT:

● BONANZA ROAD / MARION DRIVE

"FUNDED BY CLARK COUNTY 1990 BOND ISSUE"



STREET IMPROVEMENT PLAN GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL NEW CONCRETE SURFACES FROM ANY VANDALISM, GRAFFITI OR BLEMISH DURING OR AFTER WORKING HOURS. SHOULD ANY DAMAGE OCCUR THE CONTRACTOR SHALL MAKE NECESSARY REPAIRS WITHIN TWENTY-FOUR (24) HOURS, AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ADJACENT APPURTENANCES (I.E. CONCRETE MANHOLES, VALVE BOXES, METER BOXES, STREET LIGHTS AND CONDUITS, SEWER MAINS AND LATERALS, WATER MAINS AND LATERALS, GAS MAINS AND LATERALS, SIGNS, ETC...) FROM DAMAGE DUE TO THEIR OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND REPAIRING OR REPLACING ANY DAMAGE TO ADJACENT APPURTENANCES (I.E., CONCRETE, VALVE BOXES, MANHOLES, PULL BOXES, STREET SIGNS, STREET LIGHTS, LAWNS, SPRINKLER SYSTEMS, ETC...) FROM DAMAGE DUE TO THEIR OPERATIONS.
- EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR PROTECTION OF UTILITIES AND THE CITY BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADJACENT PROPERTY IN EXISTING CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL ADJUSTMENT QUANTITIES, TYPES AND SIZES INCLUDED UNDER CONCRETE ITEMS, IN THE FIELD, IN ORDER TO BECOME FAMILIARIZED WITH NECESSARY WORK AND QUANTITIES REQUIRED PRIOR TO BIDDING.
- REMOVED MATERIALS SHALL BE DISCARDED TO A SITE APPROVED IN ACCORDANCE WITH SUBSECTION 107.14 OF THE UNIFORM STANDARD SPECIFICATION, AND/OR AS APPROVED BY THE ENGINEER.
- THE LIMITS OF REMOVALS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LIMITS SHALL BE DESIGNATED ON-SITE BY THE ENGINEER. THE CONTRACTOR SHALL NOT COMMENCE REMOVALS UNTIL THESE AREAS HAVE BEEN DESIGNATED BY THE ENGINEER.
- NO WATER SERVICES, VALVES, ETC... SHALL BE TURNED AND/OR RELOCATED WITHOUT THE APPROVAL OF THE LAS VEGAS VALLEY WATER DISTRICT.
- NO ELECTRICAL POLES, ETC... SHALL BE TAKEN OUT OF SERVICE AND/OR RELOCATED WITHOUT THE APPROVAL OF NEVADA POWER.
- NO STREETLIGHTS, ETC... SHALL BE TAKEN OUT OF SERVICE AND/OR RELOCATED WITHOUT THE APPROVAL OF THE CITY OF LAS VEGAS ELECTRICAL DIVISION.
- NO TRAFFIC DETECTOR LOOPS, ETC... SHALL BE TAKEN OUT OF SERVICE AND/OR RELOCATED WITHOUT THE APPROVAL OF THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DIVISION.
- SPECIAL CARE SHOULD BE TAKEN TO REVIEW SECTION 203.03.21 "SUBGRADE EXCAVATION" OF THESE SPECIFICATIONS FOR CONSTRUCTION METHODOLOGY.

SHEET INDEX

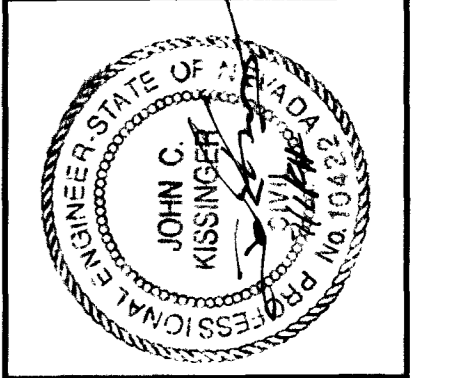
- TITLE SHEET, NOTES, DETAILS
- STREET IMPROVEMENT PLAN (MARION DRIVE)
- TRAFFIC SIGNAL PLAN (BONANZA/MARION)
- SIGNING AND STRIPING PLAN (BONANZA/MARION)

LEGEND

CONSTRUCT 4" MIN. ASPHALT CONCRETE	
SEE CONSTRUCTION NOTE #	
SECTION LINE	
R/W LINE	
CENTERLINE	
NATURAL GAS LINE	
NEW PAVEMENT EDGE	
BURIED TELEPHONE CABLE	
PAVEMENT SAW-CUT	
SANITARY SEWER LINE	
STORM SEWER LINE	
SEWER MANHOLE	
TELEPHONE MANHOLE	
SIGN	

APPROVED BY: _____
GLENN GRAYSON, P.E.
CITY TRAFFIC ENGINEER
CITY OF LAS VEGAS

BY	
DESCRIPTION	
DATE	
NO.	
DATE	06/14/94
DRAWING NO.	C5-6004
SHEET	1 OF 4
DRAWN BY	DVS
CHECKED BY	JCK
JOB NO.	4-936004.2
LINSKOTT, LAW AND GREENSPAN, ENGINEERS 2480 EAST TOMPKINS AVENUE, SUITE 240 LAS VEGAS, NEVADA 89121 (702)451-1920 FAX:(702) 451-3312	



DEPARTMENT OF PUBLIC WORKS
TITLE SHEET
TRAFFIC SIGNAL IMPROVEMENTS



DRAWING NO. 1
208-V403 4