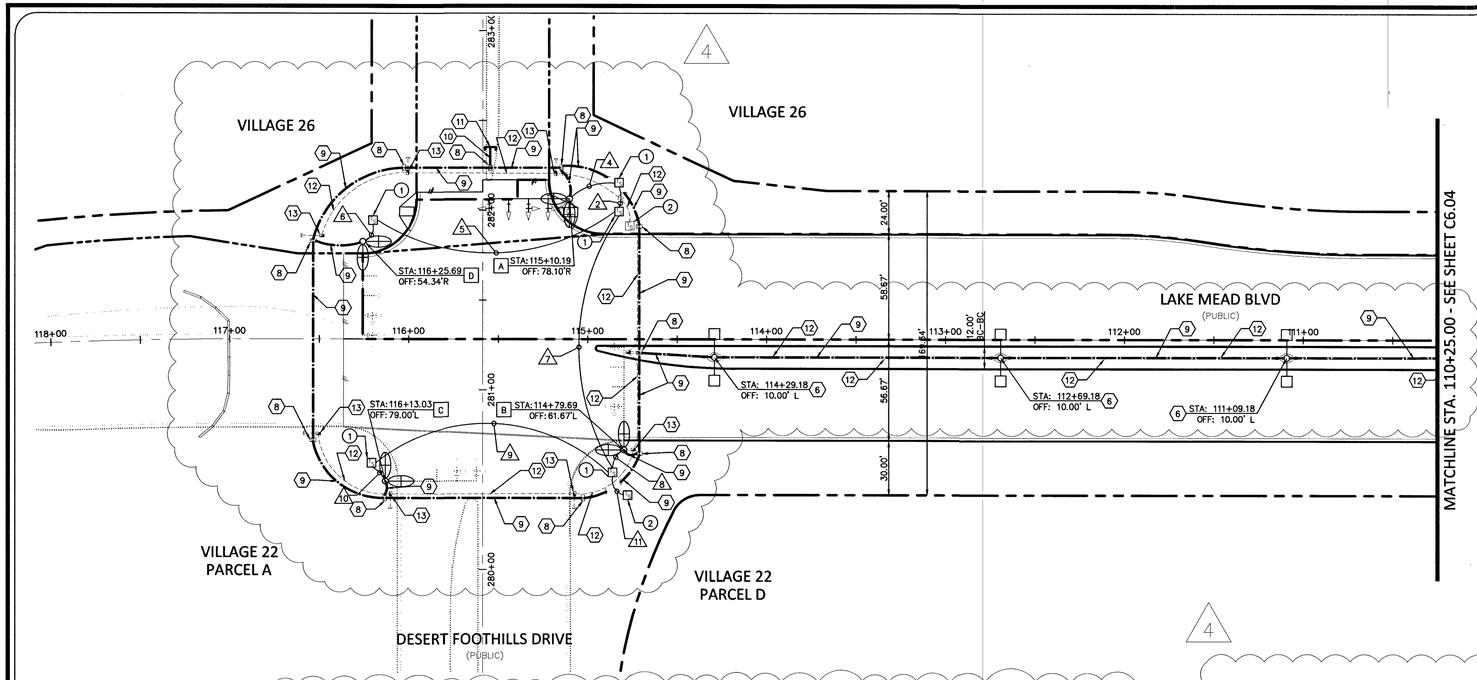
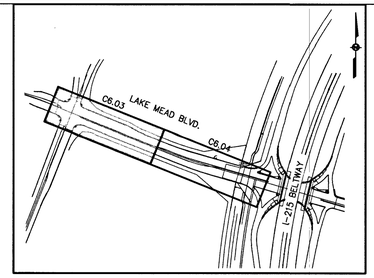




KEY MAP
NTS

GRAPHIC SCALE
40 0 20 40
SCALE: 1"=40'

BASIS OF BEARING

NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

BENCHMARK

U.S.C&G.S BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.

CLV BM NO.: D368 3
ELEVATION: 989.599 METERS (NAVD88)
3426.71 FEET

LEGAL DESCRIPTION

LYING WITHIN SECTIONS 14, 22, 23, 26 AND 27, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY NEVADA.

STREETLIGHT AND CONDUIT NOTES

NO.	ITEM USDCCA: UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA.
1	CONNECT TO EXISTING SERVICE PEDESTAL.
2	PROPOSED (2) 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES].
3	PROPOSED No. 5 PULLBOX PER USDCCA No. 326.
4	PROPOSED 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL].
5	PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2"CONDUIT ONLY [FUTURE TRAFFIC SIGNAL].
6	PROPOSED TYPE 1B TWN LUMINAIRE PER SSD No. E-1.
7	PROPOSED TYPE 2A MOD 1 LUMINAIRE WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM PER SSD E-1.
8	INSTALL No. 3-1/2 PULL BOX PER USDCCA DWG. No. 326.
9	INSTALL 1 1/4" CONDUIT CONTAINING 2#4 AND 1#8 GND [STREET LIGHTING].
10	INSTALL 1 1/4" CONDUIT ONLY [STREET LIGHTING].
11	STUB AND CAP FOR FUTURE.
12	INSTALL 4" PVC FAST CONDUIT PER USDCCA 623 G.03.01.
13	INSTALL P-30 PULL BOX WITH FIBER OPTIC INSCRIBED ON LID.

TRAFFIC SIGNAL NOTES

NO.	ITEM USDCCA: UNIFORM STANDARD DRAWING CLARK COUNTY AREA
1	INSTALL No. 7 PULL BOX PER USDCCA DWG. NO. 707.
2	INSTALL T200 PULLBOX PER USDCCA DWG NO. 762.

GENERAL TRAFFIC SIGNAL NOTES:

1. FUTURE TRAFFIC SIGNAL CONTROL CABINET AND METER PEDESTAL LOCATION TO BE DETERMINED.

GENERAL ELECTRICAL NOTES:

1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 404.1419. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULL STRING AND #8 CONDUCTOR FOR LOCATING PURPOSES.
2. ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW INSULATED.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

CONDUIT AND WIRE SCHEDULE

WIRE			VIA CONDUIT 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			●						●				●					
						●												
						●												
			●						●	●								
			●						●		●	●						
			●				●	●										
						●												
			●						●	●								
			●						●		●	●						
			●				●	●										

XX =EXISTING XX =PROPOSED
X INDICATES EXISTING CONDUIT TO BE REMOVED
O INDICATES EXISTING WIRE/CONDUIT RUNS TO REMAIN
⊗ INDICATES EXISTING CONDUIT RUNS TO REMAIN, WIRE TO BE REPLACED
● INDICATES NEW WIRE/CONDUIT RUNS TO BE ADDED

CONDUIT SIZE: NOT USED | (4)-3", (2)-2" | (3)-3", (1)-2" | (1)-3" | (2)-3", (2)-2" | (1)-3" | (2)-3", (2)-2" | (1)-3" | (2)-3", (2)-2" | (1)-3" | (1)-3" | NOT USED | NOT USED | NOT USED | NOT USED | NOT USED

POLE SCHEDULE

POLE	LOCATION STATION	POLE TYPE FOUNDATION	SIGNAL ARM QUAD	SIGNAL ARM LENGTH	LUMINAIRE ARM QUAD	LUMINAIRE ARM LENGTH	SIGNALS (VEH.) TYPE	SIGNALS (VEH.) QUAD	SIGNALS (PED.) TYPE	SIGNALS (PED.) QUAD	PED. PUSH BUTTONS QUAD	PED. PUSH BUTTONS ARROW
A	LAKE MEAD 115+10.192 78.10' RT		4	45'		15'	(2) M-2 (1) M-2 (ARROW) B-2T	MA MA 3,4	W-3T	1,2	3 4	LT RT
B	LAKE MEAD 114+79.69 61.67' LT	XX-A TYPE 'L'	1	60'		15'	(2) M-2 (1) M-2 (ARROW) B-2T	MA MA 1,4	W-3T	2,3	1 4	RT LT
C	LAKE MEAD 116+13.03 79.00' LT	XX-A TYPE 'L'	2	50'		15'	(1) M-2 (2) M-2 (ARROW) B-2T	MA MA 1,2	W-3T	3,4	1 2	LT RT
D	LAKE MEAD 116+25.69 54.34' RT	XX-A TYPE 'L'	3	55'		15'	(2) M-2 (2) M-2 (ARROW) B-2T	MA MA 2,3	W-3T	1,4	2 3	LT RT

* FUTURE (NOT FOR CURRENT CONSTRUCTION)

STREETLIGHT CIRCUIT CAPACITY CALCULATIONS FOR EX. SERVICE PEDESTAL (APN 137-14-801-011)

SERVICE PEDESTAL LOCATION: LAKE MEAD, STA: 104+24.14

CONSULTING ENGINEERING FIRM: COLLINS ENGINEERS

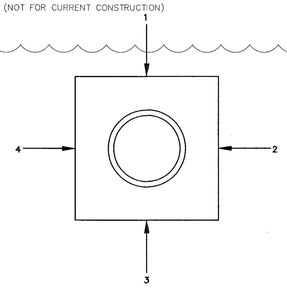
CAPACITY CALCULATIONS: CIRCUIT B (PROPOSED)

1		CIRCUIT CAPACITY	60	AMPS
2		MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3		EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4		AVAILABLE (2 MINUS 3)	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT				
5	14	NUMBER OF 250 WATT STLTS @ 1.5 AMPS/EA	21	AMPS
6		NUMBER OF 400 WATT STLTS @ 3.0 AMPS/EA		AMPS
7		TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)		AMPS
		REMAINING AVAILABLE LOAD (4 MINUS 7)		AMPS

INTERNALLY ILLUMINATED STREET NAME SIGN SCHEDULE

POLE	STREET NAME SIGN 8" LETTERING	SIZE	NOTES
A	LAKE MEAD BLVD XXXX	8'	NEW SIGNAL POLE
B	DESERT FOOTHILLS DR XXXX	8'	NEW SIGNAL POLE
C	LAKE MEAD BLVD XXXX	8'	NEW SIGNAL POLE
D	DESERT FOOTHILLS DR XXXX	8'	NEW SIGNAL POLE

* FUTURE (NOT FOR CURRENT CONSTRUCTION)



QUADRANT LOCATION

CALL BEFORE YOU D&G
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY
Call 811 or 1-800-227-2600

AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEMS. IT'S COSTLY.
CALL BEFORE YOU DO UNDERGROUND WORK
CALL 1-702-455-7511 CLARK COUNTY TRAFFIC SIGNALS AND INTELLIGENT TRANSPORTATION SYSTEMS
CALL 1-702-432-5300 NEVADA DEPARTMENT OF TRANSPORTATION

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD WORK
1-702-227-2929

COLLINS ENGINEERS ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT OR ENGINEER IMMEDIATELY.

LEGEND

EXISTING	PROPOSED	
(0.00) XXX	0.00 XXX	ELEVATION TAG
		DRAIN INLET
		RETAINING WALL
		SCREEN WALL
		UTILITY POLE
		STREET LIGHT
--E/P--	—E/P—	POWER LINE/POLE
--T--	—T—	TELEPHONE LINE
--W--	—W—	WATER LINE
--SS--	—SS—	SANITARY SEWER LINE
--D--	—D—	STORM SEWER LINE
--G--	—G—	GAS LINE
Ⓜ	Ⓜ	STORM MANHOLE
		FIRE HYDRANT
		FIRE DEPARTMENT CONNECTION
		WATER VALVE
▷	▶	REDUCER
Ⓢ	Ⓢ	SEWER MANHOLE
○	○	CLEANOUT
⋈	⋈	GAS VALVE
		PL-RIGHT-OF-WAY
		PL-ADJACENT
		CENTERLINE
		EASEMENT LINE
		FLOW LINE
		SIGN W/POLE
		SAWCUT LINE
☼	☼	AREA LIGHT
□	■	WATER METER
		AC PAVEMENT
		6" TYPE "A" CURB
		24" TYPE "L" CURB & GUTTER
		30" ROLL CURB
	BWV	BACK WATER VALVE

APPROVED FOR CONSTRUCTION
DATE: 6/7/17
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO: 124803
1st Approved 11/21/16

COLLINS ENGINEERS
3130 S. DURANGO DR., SUITE 404
LAS VEGAS, NV 89117
PHONE: (702) 248-8000
FAX: (702) 248-8070
www.collinsengr.com

PROFESSIONAL ENGINEER - STATE OF NEVADA - KENNETH YAMADA - EXP. 06-30-17 - CIVIL - NO. 014664 - 6-5-17

LAKE MEAD BLVD STREET IMPROVEMENTS (I-215 TO DESERT FOUNDATIONS)

STREETLIGHT PLAN

LAKE MEAD BLVD
CITY OF LAS VEGAS

NO.	DATE	DESIGN BY	DESCRIPTION
4	03/01/17	C.B.	CLARIFY STREETLIGHTING, FAST, AND PAVEMENT AND DRAINAGE INLET IMPROVEMENTS

CEI PROJECT: 9346
DESIGN BY: J. SALDIVAR
DRAWN BY: J. SALDIVAR
CHECKED BY: K. YAMADA
DATE: 09/01/16
SCALE: 1" = 40'
SHEET NUMBER C6.03
SHEET 14 OF 16
H#66667
107V 6673

PROJ#:124803 AGR:116094 QS:137-14-NE

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