

BENCHMARK

CITY OF LAS VEGAS NO. 1LV10/8C4, PIN AND PLATE IN TOP OF CURB EAST SIDE OF CRYSTAL WATER WAY @ MARINER COVE.
ELEVATION = 2702.31 FEET (NAVD 88)

BASIS OF BEARING

NORTH 43°57'07" WEST, BEING THE CENTERLINE OF CRYSTAL WATER WAY AS RECORDED IN BOOK 41, PAGE 52 (LAKESIDE CONDOMINIUMS NO. 1) AS FILED IN THE CLARK COUNTY, NEVADA RECORDERS OFFICE.

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ANWA, LOCAL, STATE, AND FEDERAL REGULATIONS.

LEGEND

2283	EXISTING 1' CONTOURS
2265	EXISTING 5' CONTOURS
38.68	PROPOSED GRADE
(63.33)	EXISTING GRADE
SS	PROPOSED SANITARY SEWER LINE
SS	EXISTING SANITARY SEWER LINE
WL	PROPOSED WATER LINE
WL	EXISTING WATER LINE
WL	PROPOSED FIRE SPRINKLER LINE
GAS	EXISTING GAS LINE
---/---/---	EXIST./PROP. EDGE OF ASPHALT
---	PROPERTY/RIGHT-OF-WAY LINE
---	CENTERLINE
---	EXIST./PROP. BLOCK WALL
---	EX. OVERHEAD POWER/TELEPHONE
---	SAWCUT LINE
⊙/⊙	EXIST./PROP. SANITARY SEWER MANHOLE
⊙/⊙	EXIST./PROP. 100W HPS STREETLIGHT
⊙/⊙	EXIST./PROP. 150W HPS STREETLIGHT
⊙/⊙	EXIST./PROP. 250W HPS STREETLIGHT
⊙	HANDICAPPED SYMBOL
⊙/⊙	EXIST./PROP. FIRE HYDRANT
⊙/⊙	EXIST./PROP. GATE VALVE
⊙/⊙	EXIST./PROP. REDUCING VALVE
⊙/⊙	EXIST./PROP. CLEANOUT
⊙	PROPOSED CONCRETE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE
BGR	BEGINNING OF CURB RETURN
BSW	BACK OF SIDEWALK
BVC	BEGIN VERTICAL CURVE
CC	CLARK COUNTY
CLV	CITY OF LAS VEGAS
COH	CITY OF HENDERSON
CL	CENTERLINE
CO	SEWER CLEANOUT
CONC	CONCRETE
EAC	EXISTING ASPHALTIC CONCRETE
ECR	END OF CURB RETURN
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT
EX	EXISTING
FF	FINISHED FLOOR
FL	FLOWLINE
OB	GRADE BREAK
HP	HIGH POINT
IE	INVERT ELEVATION
LVWD	LAS VEGAS VALLEY WATER DISTRICT
NTS	NOT TO SCALE
OH	EXISTING OVERHEAD POWER
PE	PAD ELEVATION
PL	PROPERTY LINE
PP	POWER POLE
SD	STORM DRAIN LINE
SF	SQUARE FEET
SL	STREET LIGHT
SNWA	SOUTHERN NEVADA WATER AUTHORITY
SS	SANITARY SEWERLINE
STA	STATION
SW	SIDEWALK
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
VC	VERTICAL CURVE
VG	VALLEY GUTTER
WL	WATERLINE
WM	WATER METER

COMPACT BACKFLOW PREVENTION ASSEMBLY

(1) 8" RPPA

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 56. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

CLV FIRE DEPARTMENT

MAXIMUM EXISTING BUILDING SIZE FOR VERIFICATION OF THE BACKFLOW PREVENTION DEVICE IS 7500 SF FOR A FIRE FLOW REQUIREMENT OF 2250 GPM

BASED ON:

SQUARE FOOTAGE:	7,500 SF
LARGEST AREA BETWEEN 4 HOUR SEPARATION WALLS:	7,500 SF
BUILDING HEIGHT:	25 FT
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-N
OCCUPANCY:	R
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO
REVIEWED BY:	<i>R. Smith</i> CLV FIRE DEPT 2/5/14
APPROVED DATE:	2/5/14

CONSTRUCTION NOTES

- LOCATION OF UNDERGROUND UTILITIES ON THE DRAWINGS WERE OBTAINED BY A PROVIDED FIELD SURVEY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR IN THE LOCATION SHOWN ON THE DRAWINGS.
- CONTRACTOR TO INSTALL A 8 INCH COMPACT BACKFLOW PREVENTION ASSEMBLY PER UDACS 56 TO TIE INTO EXISTING 8 INCH ACP WATERLINE EXITING FROM THE EXISTING 6" X 3" FMCT.
- EXISTING 8 INCH WATERLINE TO BE ABANDONED.
- INSTALL (4) 4 INCH DIAMETER BOLLARDS PER UDACS PLATE NO. 75.
- THE BACKFLOW PREVENTION RPPA WILL BE A LOW-LOSS COLTS SERIES 400, FEBCO MASTERSERIES 860, OR OTHER LOW-LOSS RPPA AS APPROVED AN PROVIDED (AT THEIR COST) BY THE LVWD.

QUANTITIES

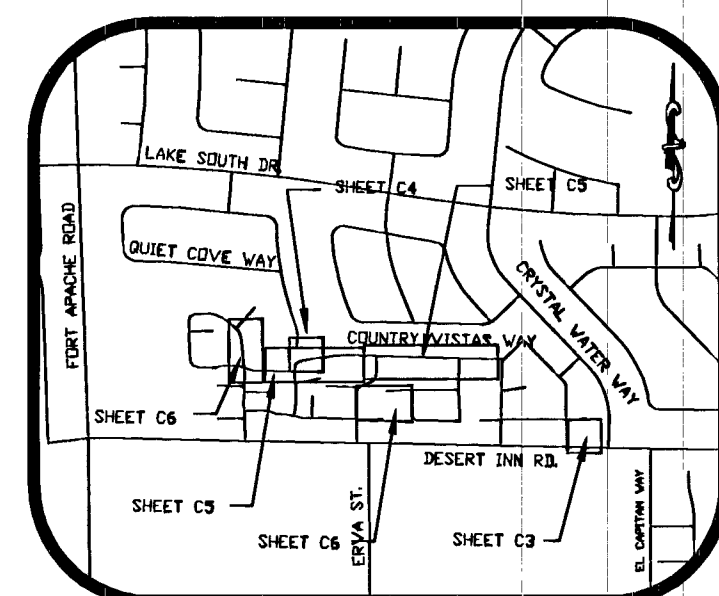
	PUBLIC	PRIVATE
8" COMPACT BACKFLOW PREVENTION ASSEMBLY (UDACS PLATE 56)	1 EA	
8" WATERLINE	3 LF	6 LF
4" DIAMETER TRAFFIC BOLLARDS (UDACS PLATE 75)		4 EA

THESE QUANTITIES ARE FOR PLANS CHECKING PURPOSES ONLY AND SHOULD NOT BE USED BY CONTRACTORS TO DETERMINE FINAL QUANTITIES.

GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft



VICINITY MAP

NOT TO SCALE
SEC. 8, T 21 S, R 60 E

1" = 10'

CRYSTAL POOL DRIVE (PUBLIC STREET)

LOT C CRYSTAL COVE

EXISTING BUILDING

WARNING
"NO OBSTRUCTION OR CONSTRUCTION WITHIN THE LIMITS OF THE EXISTING DRAINAGE EASEMENT"

DELTA: 89°45'46"
RADIUS: 45.50'
LENGTH: 71.28'

EX. 8"x6" REDUCER

EXISTING 6"x3" FMCT

EX 8" ACP WL

LAS VEGAS FIRE & RESCUE
DATE: 2/5/14

APN 163-08-416-002

COMMON AREA

PARKING SPACES

COUNTRY VISTAS WAY (PRIVATE)

S80°29'3"

APPROVED FOR CONSTRUCTION

DeMunoz
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
DATE: 2/10/14 PROJECT NO. 121465
LVWD APPROVED FIRE FLOW 2250 GPM AT 20 PSI RESIDUAL

CALL
before you
DIG

811

UNDERGROUND SERVICE (USA)
AVOID CUTTING UNDERGROUND
UTILITY LINES, IT'S COSTLY

CALL
before you
Overhead

1-702-227-2929

UNDERGROUND SERVICE (USA)
AVOID CUTTING UNDERGROUND
UTILITY LINES, IT'S COSTLY

Call
before you
Underground
1-702-455-7544
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-432-5300
FREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

LEWIS OPERATING CORP
5240 POLARIS AVE
LAS VEGAS, NEVADA 89118
(702) 891-5260 OFFICE

4222 E. PINECREST CIRCLE
LAS VEGAS, NV 89121
PH. (702) 597-2988
FAX. (702) 597-0305

6"x3" FMCT
BACKFLOW RETROFIT

CRYSTAL COVE
FMCT BACKFLOW RETROFIT AND
ONSITE WATERLINE ADDITION

DRAWN BY: JKE 2/1/14
DESIGNED BY: JKE 2/1/14
CHECKED BY: JKE 2/1/14
PROJECT NO: 121465
FILE NAME: UT-202-103.DWG



SCALE
HORIZONTAL: 1"=10'
VERTICAL: NA

SHEET
C4
4 OF 6 SHEETS

PROJ# 107V6164