

- LEGEND**
- CADASTRAL LINE
  - CENTERLINE DEDICATED RIGHT-OF-WAY
  - TIE DISTANCE DIMENSION LINE
  - ◆ SECTION CORNER, SEE PROVENANCE
  - ◇ 1/4 SECTION CORNER, SEE PROVENANCE
  - FOUND OR SET, SEE PROVENANCE
  - SET P/K & TAG, PLS 9677 IN-LINE REFERENCES 100.00 FEET SPACING UNLESS STATED OTHERWISE
  - ⑨⑨⑨ MONUMENT IDENTIFICATION NUMBER SEE "PROJECT CONTROL COORDINATE TABLE"

**PROJECT BENCHMARK**  
 DESCRIPTION: FOUND 1-1/2" X 2" ALUMINUM PLATE AND RIVET LOCATED IN TOP OF CURB AT THE NORTH RETURN, NORTHEAST QUADRANT OF THE INTERSECTION OF XXXX ST. WITH XXXX AVE. ELEVATION = XXX.XXX METERS (NAVD'88)  
 SOURCE: BENCHMARK STATION XC21 XXSWXW, "CLARK COUNTY VERTICAL CONTROL", SHT XX-XX, NE A, REV 1992

**ON-SITE BENCHMARKS**  
 IN ADDITION TO THE 3 DIMENSIONAL POSITIONS FOUND WITHIN THE "PROJECT CONTROL COORDINATE TABLE", THE FOLLOWING BENCHMARKS WERE SET FOR ON-SITE VERTICAL CONTROL:

"X" IN CONCRETE AT NE COR. ELECTRIC VAULT, 80' S OF AND 40' W OF NE COR SE1/4 NW1/4 SECTION 34. ELEVATION = 2501.35 (U.S. SURVEY FEET NAVD'88)

**BASIS OF BEARINGS**  
 THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 34, TOWNSHIP XX SOUTH, RANGE XX EAST, MOUNT DIABLO MERIDIAN, AS SHOWN ON THE DEPENDENT RESURVEY OF SAID TOWNSHIP APPROVED BY THE BUREAU OF LAND MANAGEMENT, SEPTEMBER 1958, ON FILE AT THE BUREAU OF LAND MANAGEMENT DISTRICT OFFICE, LAS VEGAS, NEVADA.

- REFERENCES**
1. PARCEL MAPS: XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX
  2. SURVEYS: XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX
  3. PLATS: XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX
  4. CORNER RECORDS: XXX-XXX; XXX-XXX; XXX-XXX; XXX-XXX
  5. GOVT. PLATS: DEP. RSRVY., USBLM SEPT. 1958, ORIG. SRVY. AUG. 1881.
  6. UNRECORDED SURVEYS: J.M. SUTHER, CIVIL ENG., OCT. 1945
  7. QUASI-MUNICIPAL RECORDS: LAS VEGAS LAND & WATER CO. JUL. 1948.
  8. THE TITLE REPORT WAS FURNISHED BY XXXXX TITLE OF NEVADA, SPECIFICALLY PREPARED BY, OR UNDER THE RESPONSIBLE CHARGE OF, XXXX XXXXXXXXXX, TITLE OFFICER. SAID REPORT AND COPIES OF ALL EXCEPTIONS TO THE PROPERTIES(S) WERE FURNISHED BY SAID OFFICER UNDER REPORT NO. XXXXXXXX, DTD. X/X/XX @ 7:30AM.
  9. ADJUSTMENTS COMPUTATIONS, DR. P.R. WOLF, ET. AL., CHAPTER 17, ISBN 0-471-16833-5.

**NOTES**

1. THIS SURVEY WAS PERFORMED UTILIZING TRIMBLE STATIC AND FAST STATIC GPS SURVEYING TECHNIQUES. THE PUBLISHED TECHNICAL ACCURACY SPECIFICATIONS USING THIS EQUIPMENT AND PROCESSING SOFTWARE ARE LISTED AS FOLLOWS:

HORIZONTAL: ±[5MM + (1PPM X BASELINE)] (1 SIGMA)  
 VERTICAL: ±[10MM + (1PPM X BASELINE)] (1 SIGMA)  
 THE PRECEDING REQUIRES THE FOLLOWING MINIMUM FIELD CONDITIONS:  
 P.D.O.P. < 6, R.M.S. < 50, SATELLITES > 5, OBSTRUCTION MASK ANGLE < 13° (TRIMBLE LIT. ID# TD10358 11/95, TRIMBLE NAVIGATION LTD.)

2. TRIMBLE SOFTWARE USED FOR THIS SURVEY INCLUDES:  
 PROJECT MANAGEMENT: GPSURVEY VERSION 2.20  
 LEAST SQUARES ADJUSTMENT: TRIMNET VERSION 2.20  
 BASELINE PROCESSOR: WAVE VERSION 2.20

3. EQUIPMENT USED FOR THIS SURVEY INCLUDES:  
 • 3 TRIMBLE 400SSI RECEIVERS  
 • 2 L1/L2 COMPACT ANTENNAS WITH GROUND PLANE  
 • SOKKIA TRIBRACHS (RECENTLY CALIBRATED)  
 • SOKKIA WOODEN TRIPODS  
 • 1 L1/L2 GEODETIC ANTENNA WITH PERMANENT GROUND PLANE

**HORIZONTAL LINE TABLE**

LINE	DIRECTION	DISTANCE
L1	N 45°00'00" E	278.72'
L2	N 00°00'00" W	200.00'

**HORIZONTAL CURVE TABLE**

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	850.00'	667.59'	352.08'	650.56'	N 22°30'00" E	45°00'00"
C2	850.00'	665.23'	350.70'	648.38'	N 22°34'46" E	44°50'28"

**PROJECT CONTROL COORDINATE TABLE**

POINT (NO.)	PROJECT COORDINATE INFORMATION			NEVADA COORDINATE SYSTEM 1983 HARN BASED EAST ZONE (METERS)		GEOGRAPHIC COORDINATES NAD 83 HARN BASED		
	NORTHING	EASTING	ELEV	NORTHING	EASTING	LATITUDE	LONGITUDE	ELLIPSOID HT. (FT)
1	20000.0000	20000.0000		20000.0000	20000.0000	36° 10' 00.0000"	115° 10' 00.0000"	2145.26
2	22640.0000	20000.0000	2700.00	22640.0000	20000.0000	36° 10' 26.1024"	115° 09' 59.7236"	2455.11
3	23960.0000	20000.0000	2600.00	23960.0000	20000.0000	36° 10' 39.1536"	115° 09' 59.5854"	3222.86
4	25280.0000	20000.0000		25280.0000	20000.0000	36° 10' 52.2048"	115° 09' 59.4472"	2890.03
5	25280.0000	21320.0000	2550.00	25280.0000	21320.0000	36° 10' 52.0924"	115° 09' 43.3486"	2776.21

**FOR EXAMPLE ONLY**

1. THE CONTENTS OF THIS DRAWING WERE CREATED TO PROVIDE A GRAPHIC REPRESENTATION OF LVVWD AUTOCAD STANDARD REQUIREMENTS AND EXPECTATIONS FOR SURVEY SHEETS.
2. ALL TYPES OF INFORMATION ON THIS DRAWING ARE REQUIRED TO BE PROVIDED AS SHOWN FOR THE PROJECT SUBMITTAL TO BE ACCEPTED AND APPROVED (TYP).
3. USAGE OF A PREVIOUSLY RECORDED SURVEY BY ANOTHER FIRM AND/OR FOR ANOTHER PROJECT MUST HAVE PRIOR APPROVAL BY THE DISTRICT SURVEYOR. THEREFORE THE EMBEDDED RECORD OF SURVEY SHEET (DWG NO. SV1) MAY NOT BE REQUIRED. HOWEVER, ALL PROJECT HORIZONTAL AND VERTICAL CONTROL, BENCHMARKS, BASIS OF BEARINGS, AND SURVEY REFERENCES WILL BE REQUIRED TO BE SHOWN ON THE HORIZONTAL CONTROL PLAN SHEET (DWG NO. SV2).
4. THE DISTRICT SURVEYOR'S SIGNATURE WILL BE REQUIRED ON ALL SURVEY SHEET TITLEBLOCKS (RECOMMENDED BY:) FOR THE FINAL SUBMITTAL TO BE ACCEPTED AND APPROVED (TYP).

**CONTROL COORDINATE TABLE ABBREVIATION LISTING**

PROVENANCE:  
 RS = RECORD OF SURVEY  
 PM = PARCEL MAP  
 SD = SUBDIVISION MAP  
 MM = MISCELLANEOUS MAPS

FL = FILE (CLARK CO. RECORDER)  
 PG = PAGE (CLK. CO. RECORDER)  
 BK = BOOK (CLK. CO. RECORDER)

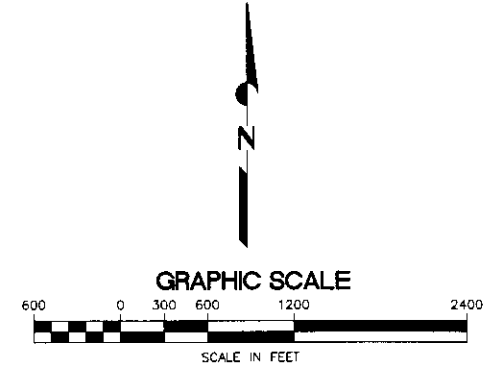
BLM = BUREAU OF LAND MANAGEMENT  
 GLO = GENERAL LAND OFFICE  
 DEP RSVY = DEPENDENT RESURVEY

DESCRIPTION:  
 F = FOUND  
 S = SET, THIS SURVEY  
 DIA. = DIAMETER (CIRCULAR)

CP = CAP  
 AL = ALUMINUM  
 BC = BRASS CAP (DISK)

"1958" = DATE SET BY BLM/GLO  
 PLS = PROFESSIONAL LAND SURVEYOR  
 HARN = HIGH ACCURACY REF. NETWORK

GENERAL:  
 ELEV = ELEVATION  
 NO. = NUMBER



**SURVEYOR'S CERTIFICATE**

I, XXXXXXXX X. XXXXXXXX, A PROFESSIONAL LAND SURVEYOR, REGISTERED IN THE STATE OF NEVADA, ACTING AS AGENT FOR XXXXXXXXXXXX XXXXXXXXXXXX, HEREBY CERTIFY THAT:

1. THIS PLAT REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF THE LAS VEGAS VALLEY WATER DISTRICT.
2. THE LANDS SURVEYED LIES WITHIN THE XX QUARTER OF SECTION XX, TOWNSHIP XX SOUTH, RANGE XX EAST, MOUNT DIABLO MERIDIAN, CLARK COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON XX/XX/XX.
3. THIS PLAT COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCES IN EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATIVE CODE.
4. THE MONUMENTS DEPICTED ON THE PLAT ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED, AND ARE OF SUFFICIENT DURABILITY.
5. THIS PLAT AND THE SURVEY ON WHICH IT IS BASED UPON WAS PERFORMED IN RECOGNITION OF THE RELATIVE POSITIONAL TECHNICAL ACCURACY SPECIFICATIONS AS PUBLISHED BY THE MANUFACTURER (SEE "NOTES")

XXXXXXX X. XXXXXXXX  
 PROFESSIONAL LAND SURVEYOR  
 NEVADA LICENSE NO. XXXX

**ENVELOPING EXTERIOR CONTROL**  
 THE FOLLOWING GEODETIC CONTROL POINTS WERE HELD FIXED DURING THE FINAL CONSTRAINED LEAST SQUARES ADJUSTMENT:

NAME	GENERAL PROVENANCE	LOCAL PROVENANCE
J171	NGS DATASHEETS, MAY 1995, CD ROM 1236900	MM, FL 002, PG 032
SLOAN	NGS DATASHEETS, MAY 1995, CD ROM 1236900	MM, FL 002, PG 032
GIS 841	LAS VEGAS VALLEY GEODETIC CONTROL NETWORK	RS, FL 088, PG 053
LVVWD BASE	www.lvvd.com/vvwd/data_share.html	RS, FL 096, PG 077
GOLDSTONE PEQ	www.ngs.ncep.gov/CORS/cors-data.html	NOT APPLICABLE

**TRANSFORMATION-CONVERSION PARAMETERS**

1. NAVD 88 ELEVATION FACTOR:  $\frac{20,926.000}{20,906.000 + 2409.93 + 90.05} = 0.9998804$
2. PROJECT CENTRAL (MEAN E-W EXTENT) ELLIPSOID TO GRID FACTOR: 0.9999181
3. PROJECT COMBINED FACTORS:  
 GROUND TO GRID: 0.9997985; GRID TO GROUND 1.0002015
4. EAST OF CENTRAL MERIDIAN ROTATIONAL PARAMETER: 0° 14' 45" CLOCKWISE FROM THIS PROJECT CARTESIAN COORDINATE SYSTEM TO THE STATE PLANE GRID SYSTEM.
5. ENGLISH/METRIC CONVERSIONS:  
 METERS  $\times \left(\frac{39.37}{1200}\right) =$  U.S. SURVEY FEET  
 U.S. SURVEY FEET  $\times \left(\frac{1200}{39.37}\right) =$  METERS

**2D CONFORMAL TRANSFORMATION PARAMETERS**

1. EQUATIONS:  $ax - by + tx = x^2 + vx; bx + ay + ty = y^2 + vy$
2. WHERE: (X,Y) ARE STATE PLANE VALUES AND (x,y) ARE PROJECT COORDINATES.
3.  $a = 0.99978950; b = -0.00429111; tx = 2674264.082; ty = 759068.023$
4. ROTATION = 0° 14' 45.3"
5. SCALE = 0.99980

**RECORDER'S NOTE**  
 ANY SUBSEQUENT CHANGES TO THIS MAP MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX. NRS 278.5895

**RECORD OF SURVEY**  
 FOR THE  
**LAS VEGAS VALLEY WATER DISTRICT**  
**BOUNDARY AND PROJECT CONTROL**  
**SECTION 34, TXXS, RXXE, M.D.M.**

NO. \_\_\_\_\_  
 FILED AT THE REQUEST OF:  
 THE LAS VEGAS VALLEY WATER DISTRICT  
 DATE \_\_\_\_\_ AT \_\_\_\_\_ M.  
 FILE \_\_\_\_\_ PAGE \_\_\_\_\_  
 OF SURVEYS

CONTRACT XXXXXXXX  
 LOCATION XXXXXXXX  
 NAME XXXXXXXX  
 DATE XXXXXXXX  
 DRAWN XXXXXXXX  
 CK'D XXXXXXXX  
 H SCALE XXXXXXXX  
 V SCALE XXXXXXXX

SHEET 1 OF 1

LAS VEGAS VALLEY WATER DISTRICT  
 "LEADERS IN SERVICE"  
 1001 S. VALLEY VIEW BOULEVARD  
 LAS VEGAS, NEVADA 89155  
 (702) 870-2011

OFFICIAL RECORDS BOOK NO. CLARK COUNTY NEVADA RECORDS JUDITH A. VANDER, RECORDER  
 FEE \_\_\_\_\_ DEPUTY \_\_\_\_\_

FILE XXX PAGE XXX

LAS VEGAS VALLEY WATER DISTRICT

SPACE FOR CONSULTANT LOGO.

NAME AND ADDRESS

VERIFY SCALE

1/2" = 1' 0"

BAR REPRESENTS ONE AND ONE-HALF INCHES ON ORIGINAL

IMBEDDED RECORD OF SURVEY

DRAWN BY: XXXXXXXXXXXXXXXX  
 DATE: \_\_\_\_\_

RECOMMENDED BY: XXXXXXXXXXXXXXXX  
 DATE: \_\_\_\_\_

DISTRICT SURVEYOR: \_\_\_\_\_  
 DATE: \_\_\_\_\_

ACCEPTED BY: SHAWN P. MOLLUS  
 DATE: \_\_\_\_\_

SURVEYOR'S STAMP

CONTRACT NUMBER  
**XXXX**  
 DRAWING NUMBER SV1  
 SHEET X OF X