

RECORD OF SURVEY
OF SECTIONS 13, AND 24, TOWNSHIP 19 SOUTH,
RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA

COORDINATE CONTROL TABLE

U.S. SURVEY GROUND FEET HORIZONTAL=LOCAL VERTICAL=NAVD88			STATE PLANE GRID METER COORDINATES HORIZONTAL=NCS83 EAST ZONE VERTICAL=NAVD88			GEOGRAPHIC COORDINATES NAD 83	
POINT	NORTHING	EASTING	NORTHING	EASTING	DESCRIPTION	LATITUDE	LONGITUDE
6	813760.1310	29993.4800	8171075.372	222454.132	FOUND BLM BRASS CAP 1956	36°17'30.497"	-115°20'00.049"
7	811099.4820	29978.3810	8170261.534	222449.531	FOUND BLM BRASS CAP 1956	36°17'04.092"	-115°20'00.318"
9	808444.3938	31352.6900	8169455.484	222868.330	FOUND BRASS CAP IN CONCRETE PLS 7641	36°18'37.903"	-115°19'43.619"
12	819078.6745	31283.0140	8172696.115	222847.098	FOUND RAILROAD SPIKE	36°18'23.050"	-115°19'44.129"
16	813877.7778	35432.8779	8171111.223	224111.704	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°17'31.516"	-115°18'53.611"
20	811197.7777	35426.4315	8170294.535	224109.740	FOUND ALUMINUM CAP	36°17'05.018"	-115°18'53.781"
22	809857.0396	35418.9008	8169885.966	224107.445	FOUND BRASS CAP IN CONCRETE PLS 7641	36°18'51.782"	-115°18'53.918"
36	819182.6055	34031.6795	8172727.787	223684.711	FOUND ALUMINUM CAP PLS 9047	36°18'24.005"	-115°19'10.548"
39	817848.5556	34042.0337	8172321.256	223687.866	FOUND ALUMINUM CAP PLS 9047	36°18'10.814"	-115°19'10.466"
41	815181.2337	34062.5752	8171508.431	223694.126	FOUND ALUMINUM CAP PLS 9047	36°17'44.441"	-115°19'10.304"
42	813848.8014	34072.7559	8171102.393	223697.228	FOUND ALUMINUM CAP PLS 9047	36°17'31.268"	-115°19'10.224"
43	812509.5274	34069.3056	8170694.270	223696.177	FOUND ALUMINUM CAP PLS 9047	36°17'18.025"	-115°19'10.311"
44	812481.3155	32710.8110	8170685.673	223282.197	FOUND CONCRETE NAIL AND TAG PLS 9047	36°17'17.782"	-115°19'26.903"
66	808516.1863	35411.4422	8169477.362	224105.172	FOUND WELL MONUMENT PLS 7004	36°18'38.505"	-115°18'54.055"
80	809831.3232	34062.0995	8169878.129	223693.981	NOTHING FOUND OR SET	36°18'51.545"	-115°19'10.488"
81	809780.6009	31348.3515	8169862.672	222867.008	FOUND HUB AND BRASS TAG PLS 7641	36°18'51.115"	-115°19'43.629"
82	809755.2205	29988.8965	8169854.938	222452.736	FOUND ALUMINUM CAP PLS 9047	36°18'50.899"	-115°20'00.232"
83	811116.5084	31344.0140	8170269.769	222865.687	FOUND ALUMINUM CAP PLS 9047	36°17'04.324"	-115°19'43.640"
84	812453.0644	31348.5349	8170677.064	222867.064	FOUND ALUMINUM CAP PLS 9047	36°17'17.538"	-115°19'43.541"
85	812424.8065	29985.9305	8170668.453	222451.832	FOUND ALUMINUM CAP PLS 9047	36°17'17.294"	-115°20'00.184"
86	813789.9780	31353.0570	8171084.468	222868.442	FOUND ALUMINUM CAP PLS 9047	36°17'30.757"	-115°19'43.443"
87	815112.4556	31335.6895	8171487.472	222863.150	FOUND ALUMINUM CAP PLS 9047	36°17'43.833"	-115°19'43.613"
88	815077.4775	29972.0340	8171476.813	222447.597	FOUND ALUMINUM CAP PLS 9047	36°17'43.522"	-115°20'00.270"
89	816434.3315	31318.3300	8171890.293	222857.860	FOUND ALUMINUM CAP PLS 9047	36°17'56.903"	-115°19'43.782"
90	817757.3220	31300.6611	8172293.454	222852.475	FOUND NAIL AND BRASS TAG "VTN" PLS 9047	36°18'09.985"	-115°19'43.956"
91	817710.8105	29929.8840	8172279.280	222434.753	FOUND ALUMINUM CAP PLS 9047	36°18'09.560"	-115°20'00.702"
202	819234.6590	35406.5110	8172743.649	224103.669	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°18'24.482"	-115°18'53.752"
203	819130.5520	32656.8480	8172711.924	223265.752	FOUND BLM BRASS CAP 1956	36°18'23.527"	-115°19'27.345"
204	819026.7970	29909.1800	8172680.307	222428.443	FOUND BLM BRASS CAP 1956	36°18'22.572"	-115°20'00.913"
212	816394.8240	29950.5880	8171878.254	222441.062	FOUND BLM BRASS CAP 1956	36°17'56.548"	-115°20'00.490"
213	816473.8390	32886.0720	8171902.332	223274.658	FOUND BLM BRASS CAP 1956	36°17'57.258"	-115°19'27.075"
214	816552.0050	35418.0430	8171926.152	224107.183	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°17'57.957"	-115°18'53.702"
230	816513.0750	34052.3990	8171914.289	223691.025	FOUND BLM BRASS CAP	36°17'57.610"	-115°19'10.384"
237	815215.0259	35425.4597	8171518.729	224109.444	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°17'44.738"	-115°18'53.657"
242	817803.8140	8172307.8620	8172307.862	223270.023	FOUND BLM BRASS CAP	36°18'10.408"	-115°19'27.217"
300	817893.2669	35412.2773	8172334.881	224105.426	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°18'11.219"	-115°18'53.727"
310	808492.0061	34058.6321	8169469.993	223692.924	FOUND ALUMINUM CAP PLS 9047	36°18'38.302"	-115°19'10.575"
311	808467.8280	32705.8220	8169462.625	223280.676	FOUND PK NAIL CHECKS WITH ROS FILE 124 PAGE 94	36°18'38.099"	-115°19'27.095"
312	809805.9760	32707.5250	8169870.405	223281.195	FOUND BRASS CAP IN CONCRETE PLS 7641	36°18'51.330"	-115°19'27.031"
313	811170.1390	34065.8550	8170286.113	223695.125	FOUND BLM BRASS CAP 1956	36°17'04.782"	-115°19'10.398"
314	811142.8060	32708.9880	8170277.783	223281.641	FOUND BRASS CAP PLS 4134	36°17'04.548"	-115°19'26.969"
315	813819.8250	32712.6340	8171093.563	223282.752	FOUND BLM BRASS CAP 1956	36°17'31.016"	-115°19'26.837"
316	815147.4140	32698.5790	8171498.125	223278.469	FOUND BLM BRASS CAP 1956	36°17'44.143"	-115°19'26.965"
602	808420.9590	29999.4120	8169448.343	222455.940	FOUND ALUMINUM CAP PLS 8421	36°18'37.706"	-115°20'00.145"
818	812537.7778	35429.6547	8170702.879	224110.722	NOTHING FOUND OR SET - AREA UNDER CONSTRUCTION	36°17'18.267"	-115°18'53.696"

SURVEYOR'S CERTIFICATE

I, MARK S. CORMIER, A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEVADA, AS AGENT FOR VTN NEVADA, CERTIFY THAT:

- THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF THE CLIFFS EDGE, LLC.
- THE LANDS SURVEYED LIE WITHIN SECTIONS 13 AND 24, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA. THIS SURVEY WAS COMPLETED ON NOVEMBER 17, 2004.
- THIS SURVEY COMPLIES WITH APPLICABLE STATUTES OF THIS STATE AND ANY LOCAL ORDINANCE EFFECT ON THE DATE THAT THE SURVEY WAS COMPLETED, AND THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 625 OF THE NEVADA ADMINISTRATIVE CODE.
- THE MONUMENTS DEPICTED ON THE MAP ARE OF THE CHARACTER SHOWN, OCCUPY THE POSITIONS INDICATED AND ARE OF SUFFICIENT NUMBER AND DURABILITY.

MARK S. CORMIER, P.L.S.
NEVADA LICENSE NO. 13861

NOTE

THE PURPOSE OF THE RECORDING OF THIS RECORD OF SURVEY IS TO HAVE A CURRENT SURVEY FOR NEW PROJECTS FOR THE LAS VEGAS VALLEY WATER DISTRICT. THIS SURVEY HAS BEEN UPDATED FROM A PREVIOUSLY RECORDED RECORD OF SURVEY IN FILE 124 AT PAGE 94.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 00°08'16" EAST, BEING THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4), OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN FILE 124 AT PAGE 94.

PROJECT BENCHMARK

DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

CITY OF LAS VEGAS BENCHMARK: 8LV99:13SES
NAVD88 ELEVATION: 869.606 METERS (2853.03 FEET)

RIVET AND PLATE IN CONCRETE CYLINDER NW CORNER OF HUALAPAI AND ELKHORN

NOTE: WHEN THE SURVEYING FOR THIS PROJECT BEGAN, THE ABOVE REFERENCED BENCHMARK 8LV99:13SES WAS NOT PUBLISHED. THE BASIS FOR THE DATUM FOR THIS PROJECT IS SHOWN ON RECORD OF SURVEY FILE 124 PAGE 94, CLARK COUNTY BENCHMARK 1C00-6N6, WHICH AT THE TIME OF THE ORIGINAL SURVEY (PRIOR TO THE CURRENT 2003 COUNTY BENCHMARK PUBLISHING) HAD AN ELEVATION OF 2584.61 FEET. TO CONVERT THE CURRENT CITY OF LAS VEGAS BENCHMARK 8LV99:13SES TO MATCH THE ORIGINAL PROJECT DATUM, 0.34' NEEDS TO BE ADDED TO THE ELEVATION OF 2853.03 FEET.

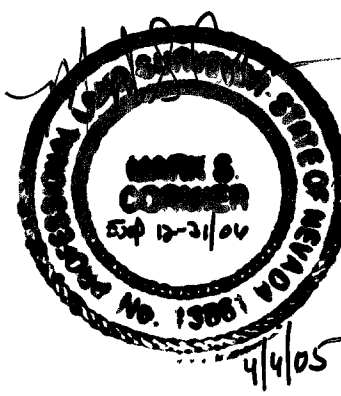
LEGEND

- MONUMENT FOUND AS INDICATED
- NOTHING FOUND OR SET - AREA IS UNDER CONSTRUCTION
- SECTION LINE

COUNTY RECORDER'S NOTE

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX, N.R.S. 278.5695.

vtm CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS 2727 SOUTH RAINBOW BOULEVARD LAS VEGAS, NEVADA 89146 (702) 873-7550 FAX (702) 382-2597		NO. 0965 FILED AT THE REQUEST OF : CLIFFS EDGE, LLC DATED 12-02-04 AT 9:57 AM FILE 143 PAGE 0007 OF SURVEYS OFFICIAL RECORDS BOOK, NO. 20041202 CLARK COUNTY, NEVADA RECORDS FRANCES DEANE, RECORDER FEE \$ 41.00 DEPUTY BGN
RECORD OF SURVEY FOR CLIFFS EDGE, LLC OF SECTIONS 13, AND 24, TOWNSHIP 19 SOUTH, RANGE 59 EAST, M.D.M., CLARK COUNTY, NEVADA		
SCALE: 1"=400' FILE: SV01.DWG	W.O.# 5969-W3 DRN. BY: MSC CKD. BY: SL	DEC. 2004 REV.: SHEET 1 OF 3



CLIFFS EDGE, LLC
CONSULTING ENGINEERS
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VERIFY SCALE
1/2" = 0' 1/2"
BAR REPRESENTS
ONE AND ONE-HALF
INCHES ON ORIGINAL

EGAN CREST
3090 ZONE NORTH PIPELINE
IMBEDDED RECORD OF SURVEY I

DRAWN BY: MAR. 2005
CHECKED BY: MAR. 2005
RECOMMENDED BY: MAR. 2005
ACCEPTED BY: DATE
PETER J. JAUCH

CONTRACT NUMBER
C1136
DRAWING NUMBER SV1
SHEET 8 OF 55

SURVEY REFERENCES

RECORD OF SURVEY	FILE 73 PAGE 33	PARCEL MAP	FILE 82 PAGE 49
RECORD OF SURVEY	FILE 18 PAGE 19	PARCEL MAP	FILE 84 PAGE 84
RECORD OF SURVEY	FILE 21 PAGE 31		
RECORD OF SURVEY	FILE 88 PAGE 65		
RECORD OF SURVEY	FILE 37 PAGE 21		
RECORD OF SURVEY	FILE 88 PAGE 8		
RECORD OF SURVEY	FILE 89 PAGE 3		
RECORD OF SURVEY	FILE 95 PAGE 61		
RECORD OF SURVEY	FILE 107 PAGE 31		
RECORD OF SURVEY	FILE 114 PAGE 57		
RECORD OF SURVEY	FILE 123 PAGE 32		

BLM PLAT T. 19 S. R. 59 E., M.D.M. SUBDIVISIONS OF SECTIONS MAY 6, 1959
BLM PLAT T. 19 S. R. 60 E., M.D.M. SUBDIVISIONS OF SECTIONS MARCH 24, 1959

ENVELOPING EXTERIOR CONTROL

THE FOLLOWING GEODETIC CONTROL POINTS WERE USED TO DERIVE THE STATE PLANE COORDINATES USED FOR THIS SURVEY.

NAME	LOCAL PROVENANCE
CLARK COUNTY GIS POINT 801	RECORD OF SURVEY FILE 88 PAGE 53
CLARK COUNTY GIS POINT 806	RECORD OF SURVEY FILE 88 PAGE 53

TRANSFORMATION / CONVERSION FACTORS:

- PROJECT COMBINED FACTORS:
GROUND TO GRID: 0.99978281: GRID TO GROUND: 1.00021724
- EAST OF CENTRAL MERIDIAN ROTATIONAL PARAMETER: 00°00'00" CLOCKWISE FROM THIS PROJECT CARTESIAN COORDINATE SYSTEM TO THE STATE PLANE GRID SYSTEM.
- ENGLISH/METRIC CONVERSIONS:
METERS = 3937 / 1200 = U.S. FEET
U.S. SURVEY FEET X 1200 / 3937 = METERS

2D CONFORMAL TRANSFORMATION PARAMETERS

EQUATIONS: $ax - bx + Tx = X2 + vx$; $bx + ay + Ty = Y2 + vy$

- WHERE: (X2,Y2) ARE STATE PLANE VALUES AND (x,y) ARE PROJECT COORDINATES.
- $a = 0.99978281$; $b = -0.00000001$; $Tx = 699847.967$; $Ty = 25994353.060$ WHERE Tx AND Ty ARE GRID TRANSFORMATIONAL FACTORS
- ROTATION = 00°00'00"
- SCALE: 0.99978281
- v = PRECISION FOR A COMMON SET OF MEASUREMENT DATA (VARIANCE).