UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Original

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF

PORTIONS OF THE EAST AND NORTH BOUNDARIES

AND

A PORTION OF THE SUBDIVISIONAL LINES,

AND

THE METES-AND-BOUNDS SURVEY OF THE EASTERLY RIGHT-OF-WAY LINE

OF U.S. HIGHWAY NO. 91 THROUGH SECTION 1,

TOWNSHIP 24 SOUTH, RANGE 60 EAST,

OF THE MOUNT DIABLO MERIDIAN,

IN THE STATE OF NEVADA

EXECUTED BY

Brock R. Clifford, Cadastral Surveyor
Kane M. Hellebust, Cadastral Surveyor

Under Special Instructions dated October 22, 2007,
and approved October 22, 2007,
which provided for the surveys included under Group No. 860,
and Assignment Instructions dated November 6, 2007.

Survey commenced November 13, 2007 Survey completed December 13, 2007

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TOWNSHIP 24 SOUTH, RANGE 60 EAST, MOUNT DIABLO MERIDIAN, NEVADA

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Metes-and-Bounds Survey of the Easterly Right-of-Way Line of U.S. Highway No. 91 Through Section 1 pp. 07 - 09.

TOWNSHIP 24 SOUTH, RANGE 60 EAST, MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

The following field notes are those of the dependent resurvey of portions of the east and north boundaries and a portion of the subdivisional lines, and the metes-and-bounds survey of the easterly right-of-way line of U.S. Highway No. 91 through section 1, Township 24 South, Range 60 East, Mount Diablo Meridian, Nevada.

The north, east, south and west boundaries and the subdivisional lines were surveyed by U.S. Deputy Surveyors J.M. Brunt and W.H. Proctor in 1881 under Contract No. 115. The corner of Townships 23 and 24 South, Ranges 60 and 61 East was remonumented by Cadastral Surveyor H.G. Parker in 1956 under Group No. 364.

Before restoring the corners, the lines of the original surveys were retraced and a diligent search made for all evidence and other calls of the original field note record.

The rules of proportionate measurement were applied in order to ascertain the position of lost corners, after completing the necessary retracements to connect with identified corner locations. In order to simplify the record, the true line notes only are supplied herewith, which refer to the completed survey.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 860, dated October 22, 2007.

Measurements were made with Trimble R8 Global Positioning System (GPS) receivers using the real-time kinematic (RTK) method and refer to the true meridian based on geodetic methods. The mean bearings of the lines and horizontal equivalents of ground distances only are entered in the field notes.

The NAD 1983 (CORS96) geographic position of the corner of Townships 23 and 24 South, Ranges 60 and 61 East, determined from Global Positioning System (GPS) static observations processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS), NVPO MT. POTOSI CORS ARP, NVTP TROPICANA CORS ARP, and NVBM BERMUDA CORS ARP, in 2007 and carried forward by RTK observations, is as follows:

Latitude: 35°53'48.434" N. Longitude: 115°12'24.929" W.

The December 13, 2007, mean magnetic declination was determined to be $12^{\circ}34^{\circ}$ E., from the National Oceanic and Atmospheric Administration's National Geophysical Data Center declination calculator.

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA					
CHAINS	Reestablishment of the Survey Executed by J.M. Brunt and W.H. Proctor, U.S. Deputy Surveyors, in 1881					
	Beginning at the point for the cor. of secs. 1, 6, 7 and 12, at proportionate distance; there is no remaining evidence of the original corner.					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 8 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.					
	T24S R60E R61E S 1 S 6 S12 S 7					
	2007					
	From this point, the cor. of secs. 7, 12, 13 and 18 bears S. 0°20'50" E., 74.648 chs. dist., perpetuated by James L. Marlett, Jr., Nevada Professional Land Surveyor No. 13386, in 2003, monumented with a rebar, 5/8 in. diam., firmly set, projecting 1 in. above the ground, with aluminum cap mkd. PLS 13386, in a mound of stone, 4 ft. base, 2 ft. high, with a basalt stone, 18x12x10 ins., mkd. with 2 grooves and 4 grooves on opposite sides, laying loose in mound, recorded in Clark County, Nevada, as Corner Record No. 20030620-01363.					
	At the corner point					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.					
	T24S R60E R61E S12 S 7 S13 S18					
	2007					
	Insert the rebar, inverted, inside and deposit the mkd. stone alongside the stainless steel post.					
	This control line was fully retraced and careful search was made for evidence of the intervening corner, none of which was recovered.					
	N. 0°20'50" W., bet. secs. 1 and 6.					
0.60	Wash, 50 lks. wide, drains N. 80° W.					
23.80	Ridge, bears NE. and SW.					
34.60	Wash, 20 lks. wide, drains NW.					
37.324	Point for the 1/4 sec. cor. of secs. 1 and 6, at proportionate distance; there is no remaining evidence of the original cor.					

DEPENDENT RESURVEY OF A PORTION OF THE EAST BOUNDARY, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA						
CHAINS	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 4 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 7 ft. base, to top, with brass cap mkd.						
	T24S 1/4 R60E R61E S 1 S 6						
	2007						
	Cor. is located on a steep SW. slope.						
74.648	The cor. of Tps. 23 and 24 S., Rs. 60 and 61 E., monumented with an iron post, 2 1/2 ins. diam., firmly set in a mound of stone, 5 ft. base, 4 ft. high, with brass cap mkd. as described in the field notes of the 1956 dependent resurvey of the S. bdy., T. 23 S., R. 61 E., executed under Group No. 364.						
	DEPENDENT RESURVEY OF A PORTION OF THE NORTH BOUNDARY, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA						
	Reestablishment of the Survey Executed by J.M. Brunt and W.H. Proctor, U.S. Deputy Surveyors, in 1881						
	From the cor. of Tps. 23 and 24 S., Rs. 60 and 61 E., hereinbefore described.						
	S. 89°47'00" W., bet. secs. 1 and 36.						
35.938	Point for a witness point at the intersection of the easterly right-of-way line of U.S. Highway No. 91 (Las Vegas Boulevard), with the line bet. secs. 1 and 36, hereinafter described.						
36.10	Underground gas line, bears N. 33° E. and S. 33° W.						
39.557	Centerline of U.S. Highway No. 91 (Las Vegas Boulevard), asphalt-surfaced, 40 lks. wide, bears N. 33° E. and S. 32°55'20" W.						
40.153	Point for the $1/4$ sec. cor. of secs. 1 and 36, at proportionate distance; there is no remaining evidence of the original cor.						
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.						
	T23S R60E						
	1/4 S36						
	S 1 T24S						
	2007						
	Cor. falls at the toe of shoulder on the W. side of U.S. Highway No. 91 (Las Vegas Boulevard).						

DEPENDENT RESURVEY OF A PORTION OF THE NORTH BOUNDARY, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA				
CHAINS					
43.15	E. side of N. bound lane, Interstate Highway No. 15, asphalt-surfaced, 90 lks. wide, bears N. 33° E. and S. 33° W.				
44.20	W. side of N. bound lane, Interstate Highway No. 15, asphalt-surfaced, bears N. 33° E. and S. 33° W.				
44.80	E. side of S. bound lane, Interstate Highway No. 15, asphalt-surfaced, 90 lks. wide, bears N. 33° E. and S. 33° W.				
45.85	W. side of S. bound lane, Interstate Highway No. 15, asphalt-surfaced, bears N. 33° E. and S. 33° W.				
77.80	Top of ridge, bears NE. and SW.				
80.00	Powerline, bears N. 10° E. and S. 10° W.				
80.306	Point for the cor. of secs. 1, 2, 35 and 36, at proportionate distance; there is no remaining evidence of the original cor.				
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.				
T23S R60E S35 S36 S 2 S 1 T24S					
	2007				
	Cor. falls at the toe of fill on the E. side of the Union Pacific Railroad tracks, bears N. 10° E. and S. 10° W.				
	S. 89°47'00" W., bet. secs. 2 and 35.				
0.60	Single track, Union Pacific Railroad, bears N. 10° E. and S. 10° W.				
40.153	The 1/4 sec. cor. of secs. 2 and 35, monumented with a rebar of unknown origin, 5/8 in. diam., 12 ins. long, firmly set, projecting 3 ins. above a mound of stone, 3 ft. base, 1 ft. high, with a limestone, 10x8x6 ins., mkd. 1/4 on one side, laying loose in mound.				
	At the corner point				
Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.					
T23S R60E $ \begin{array}{r} $					
	2007				
	Insert the rebar inside and bury the mkd. stone alongside the stainless steel post.				

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

p	1. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA				
CHAINS	Reestablishment of the Survey Executed by J.M. Brunt and W.H. Proctor, U.S. Deputy Surveyors, in 1881				
	From the cor. of secs. 1, 6, 7 and 12, on the E. bdy. of the Tp., hereinbefore described.				
	N. 89°51'20" W., bet. secs. 1 and 12.				
1.20	Wash, 50 lks. wide, drains S.				
17.80	Wash, 30 lks. wide, drains SW.				
39.706	Point for the 1/4 sec. cor. of secs. 1 and 12, at proportionate distance; there is no remaining evidence of the original cor.				
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, over a plastic-encased magnet, and in a collar of stone, 2 ft. base, to top, with brass cap mkd.				
	T24S R60E				
	$1/4 \frac{S}{S12}$				
	2007				
51.30	Wash, 20 lks. wide, drains N. 40° W.				
79.412	Point for the cor. of secs. 1, 2, 11 and 12, at proportionate distance; there is no remaining evidence of the original cor.				
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, over a plastic-encased magnet, and in a collar of stone, 2 ft. base, to top, with brass cap mkd.				
	T24S R60E				
	$\begin{array}{c c} \underline{S} & 2 & S & 1 \\ \hline S11 & S12 & & & & & & & & \\ \end{array}$				
	2007				
	From this point, the cor. of secs. 11, 12, 13 and 14, bears S. 0°34'30" W., 74.604 chs. dist., monumented with a rebar of unknown origin, 5/8 in. diam., 24 ins. long, firmly set, projecting 6 ins. above the ground, with two pieces of rotted cedar post, each 2 ins. long, laying loose alongside. This is accepted as the best available evidence of the position of the original corner.				
	At the corner point				
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.				
	T24S R60E S11 S12 S14 S13				
	2007				

DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

	T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA					
CHAINS	Insert the rebar inside and deposit the remains of rotted cedar post alongside the stainless steel post.					
	This control line was fully retraced and careful search was made for evidence of the intervening corner, none of which was recovered.					
	From this same point, the cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., bears S. 87°44'20" W., 398.479 chs. dist., monumented with a rebar of unknown origin, 18 ins. long, 5/8 in. diam., firmly set, projecting 1 in. above the ground, with aluminum cap not marked, and with a limestone, 12x10x7 ins., mkd. with 4 grooves and 1 groove on opposite sides, laying loose alongside.					
	At the corner point					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.					
	T24S R59E R60E S 1 S 6 S12 S 7					
:	2007					
	Insert the rebar, inverted, inside the stainless steel post and deposit the mkd. stone alongside.					
	This control line was fully retraced and careful search was made for evidence of intervening corners, none of which was recovered.					
	From this same point, a Nevada Department of Transportation control monument, bears N. 48°50'00" W., 10.001 chs. dist., monumented with a plastic post, 3x3 ins., firmly set, projecting 1 in. above the ground, with brass cap, 2 ins. diam., mkd. 473008M 1998. This monument was not utilized during the course of this survey.					
	N. 1°03'00" W., bet. secs. 1 and 2.					
3.701	Point for a witness point at the intersection of the easterly right-of-way line of U.S. Highway No. 91 (Las Vegas Boulevard), with the line between secs. 1 and 2, hereinafter described.					
9.508	Centerline of U.S. Highway No. 91 (Las Vegas Boulevard), asphalt-surfaced, 40 lks. wide, bears N. 30°24'20" E. and S. 33° W.					
18.10	SE. side of NE. bound lane, Interstate Highway No. 15, asphalt-surfaced, 90 lks. wide, bears N. 41° E. and S. 41° W.					
19.40	NW. side of NE. bound lane, Interstate Highway No. 15, asphalt-surfaced, bears N. 41° E. and S. 41° W.					

	DEPENDENT RESURVEY OF A PORTION OF THE SUBDIVISIONAL LINES, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA					
CHAINS						
20.15	SE. side of SW. bound lane, Interstate Highway No. 15, asphalt-surfaced, 90 lks. wide, bears N. 41° E. and S. 41° W.					
21.50	NW. side of SW. bound lane, Interstate Highway No. 15, asphalt-surfaced, bears N. 41° E. and S. 41° W.					
37.306	Point for the 1/4 sec. cor. of secs. 1 and 2, at proportionate distance; there is no remaining evidence of the original cor.					
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 8 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.					
	T24S R60E 1/4 S 2 S 1					
	2007					
74.155	The cor. of secs. 1, 2, 35 and 36, on the N. bdy. of the Tp., hereinbefore described.					
	METES-AND-BOUNDS SURVEY OF THE EASTERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 91 THROUGH SECTION 1, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA					
	MEMORANDUM					
	A portion of the westerly boundary of lands described for patent conveyance to Clark County, Nevada in Public Law 109-115, dated Nov. 30, 2005 is defined as the easterly right-of-way line of U.S. Highway No. 91.					
	The easterly right-of-way line of U.S. Highway No. 91 is determined parallel with and at 200 ft. right angle distance from the centerline as shown on Right-of-Way drawings on file with the Bureau of Land Management in case file CC 019435. The centerline is determined utilizing certain Nevada Department of Transportation monuments. Witness points are established on the easterly right-of-way line at the intersections with section lines.					
	From the point for a witness point at the intersection of the easterly right-of-way line of U.S. Highway No. 91 (Las Vegas Boulevard) with the line bet. secs. 1 and 2.					

Boulevard) with the line bet. secs. 1 and 2.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 3 ft. base, to top, with brass cap mkd.



METES-AND-BOUNDS SURVEY OF THE EASTERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 91 THROUGH SECTION 1, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

		1. 24 D., R. OO L., MOONI DIADDO MERIDIAN, NEVADA				
	CHAINS	From this point, a Nevada Department of Transportation station utilized to determine the centerline, bears S. 30°24'20" W., 70.304 chs. dist., monumented with a concrete post, 6x6 ins., firmly set, projecting 10 ins. above the ground, with steel wire on the top.				
		From this same point, a Nevada Department of Transportation control monument bears N. 24°56'40" E., 1.367 chs. dist., monumented with a plastic post, 3x3 ins., firmly set, projecting 1 in. above the ground, with brass cap, 2 ins. diam., mkd. 986094K 2006. This monument was not utilized during the course of this survey.				
		N. 30°24'20" E., on the easterly right-of-way line of U.S. Highway No. 91.				
Point for a witness point and Point of Curvature, a Nevadar Department of Transportation station utilized to determine centerline, monumented with a steel rod, 1/4 in. diam., projecting 5 ins. above the ground, encased in a standard Department of Transportation concrete post, 6x6 ins., first flush with the surface of the ground.						
		From this point, a Nevada Department of Transportation control monument bears N. 45°17'20" W., 0.848 chs. dist., monumented with a plastic post, 3x3 ins., firmly set, projecting 2 ins. above the ground, with brass cap, 2 ins. diam., mkd. 986096K 2006. This monument was not utilized in the course of this survey.				
		Thence along the arc of circular curve to the right having a radius of 4800.00 ft.; the long chord of said arc bears N. 31°39'50" E., 3.194 chs. dist.				
	3.194	Point for a witness point and Point of Tangency. The remains of a Nevada Department of Transportation station, a concrete post, 6x6x12 ins., was found laying loose 4 ins. below the surface of the ground, and the original position of this monument could not be determined.				
		Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, over a plastic-encased magnet, with brass cap mkd.				
		WP/				
		S 1				
		2007				
		Deposit the concrete post remains alongside the stainless steel post.				
		Thence N. 32°55'20" E., beginning new measurement.				
	30.679	The point for a witness point at the intersection of the easterly right-of-way line of U.S. Highway No. 91 (Las Vegas Boulevard) with line bet. secs. 1 and 36.				
- 1	. ,	1				

METES-AND-BOUNDS SURVEY OF THE EASTERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 91 THROUGH SECTION 1, T. 24 S., R. 60 E., MOUNT DIABLO MERIDIAN, NEVADA

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 12 ins. in the ground, over a plastic-encased magnet, and in a mound of stone, 4 ft. base, to top, with brass cap mkd.

WP T23S R60E

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2007

From this point, a Nevada Department of Transportation station utilized to determine the centerline, bears N. $7^{\circ}40'30"$ E., 14.283 chs. dist., monumented with a concrete post, 6x6 ins., firmly set, projecting 2 ins. above the ground, with steel wire on the top and the letter N cast on the east face.

From this same point, a Nevada Department of Transportation station utilized to determine the centerline, bears N. $33^{\circ}03'10"$ E., 12.918 chs. dist., monumented with a concrete post, 6x6 ins., firmly set, projecting 7 ins. above the ground, with steel wire on the top and the letter N cast on the west face.

From this same point, a Nevada Department of Transportation control monument bears N. $79^{\circ}04'50"$ W., 0.753 chs. dist., monumented with a plastic post, 3x3 ins., firmly set, projecting 1 in. above the ground, with brass cap, 2 ins. diam., mkd. 986098K 2006. This monument was not utilized during the course of this survey.

GENERAL DESCRIPTION

The average elevation of the area surveyed is about 3000 feet above sea level. Steep rocky mountains are located in the NE. portion of the section and rolling hills in remaining area. Vegetation consists of creosote brush.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

None

CERTIFICATE OF SURVEY

We, Brock R. Clifford and Kane M. Hellebust, Cadastral Surveyors, HEREBY CERTIFY upon honor that, in pursuance of Special Instructions bearing date of the 22nd day of October, 2007, we have dependently resurveyed portions of the east and north boundaries and a portion of the subdivisional lines, and surveyed by metes and bounds the easterly right-of-way line of U.S. Highway No. 91 through section 1, Township 24 South, Range 60 East, of the Mount Diablo Meridian, in the State of Nevada, which are represented in the foregoing field notes as having been executed by us and under our direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

March 24, 2008	Brock R. CMM
(Date)	(Cadastral Surveyor)
March 25, 2008	Kne M Bellebrit
(Date)	(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT Reno, Nevada

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The foregoing field notes of the dependent resurvey of portions of the east and north boundaries and a portion of the subdivisional lines, and the metes-and-bounds survey of the easterly right-of-way line of U.S. Highway No. 91 through section 1, Township 24 South, Range 60 East, Mount Diablo Meridian, Nevada, executed by Brock R. Clifford and Kane M. Hellebust, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

March 25, 2008	David A. Morlan		
(Date)	(Chief Cadastra) Surveyor, Nevada)		

		CERTIFICATE	OF TRANSC		
described s	surveys in T.	regoing trans 24 S., R 60 al field note	E., Mount	the field not Diablo Merid	tes of the above ian, Nevada, is a
(De	ite)		(Chiel	. Cadastral S	urveyor, Nevada)