

**GROUND COORDINATE TABLE**

POINT (NO.)	PROJECT COORDINATE INFORMATION		
	NORTHING	EASTING	M.O.E.
CCC1	113136.845	110669.792	4392.7
CCC2	112985.564	113001.132	4436.2
CCC3	109476.319	106985.239	4362.5
CCC4	105602.610	104121.949	4330.2
CCC5	111987.271	110175.017	4384.7
CCC6	112985.791	112003.691	4401.5
CCC7	117711.274	112430.270	4438.3
CCC8	133763.048	118842.547	4650.6
CCC9	114228.223	110355.993	4626.7
CCC10	110000.000	110000.000	4396.1

**FONGER CONTROL MAP AND DISCLAIMER**

IN THE LATE 1980'S MR. RICHARD E. FONGER, USMS, PLS, NEVADA PROFESSIONAL LAND SURVEYOR AND FORMER LINCOLN COUNTY SURVEYOR, WAS COMMISSIONED TO PERFORM A SERIES OF SURVEYS ATTEMPTING TO RESTORE AND ESTABLISH SPATIAL RELATIONSHIPS BETWEEN A NUMBER OF HISTORIC SUBDIVISIONS AND ERECT MONUMENTS FOR THE CITY OF CALIENTE. ALTHOUGH HIS MONUMENTS REMAIN, HIS MAP WAS NOT RECORDED.

FONGER'S MAP, ATTACHED HERETO, ENTITLED PLAT 1, MONUMENT SURVEY (PAGE 2 OF 2), WAS APPROVED BY THE CITY COUNCIL ON JULY 6, 1990. DESPITE THIS AND THE PHYSICAL PRESENCE OF 100± MONUMENTS, IT IS NOT KNOWN WHY THIS MAP WAS NOT SIGNED BY THE COUNCIL CHAIRMAN, OR WHY IT WAS NOT RECORDED. IT WAS SEALED AND GIVEN TO LENARD SMITH, PLS.

IT WAS NOT THE PURPOSE OR SCOPE FOR ARTISAN TO MEASURE AND EVALUATE ALL OF THE REMAINING FONGER MONUMENTS, BUT TO TRY TO CREATE A COORDINATE SYSTEM THAT GETS CLOSE, PRESERVING THE ACCURACY OF GPS, OMITTING THE WEAKNESSES OF PRE-GPS MEASUREMENT TECHNOLOGY. ALSO, PROVIDE THE BASIC FRAMEWORK FOR PROFESSIONALS TO SEARCH FOR, FIND AND EVALUATE FONGER EVIDENCE, ON A CASE-BY-CASE BASIS, ANY APPROPRIATENESS FOR USE AS PERHAPS THE BEST AVAILABLE EVIDENCE, AS A BOUNDARY SURVEYOR'S LEGAL RESPONSIBILITY. EVALUATING FONGER MONUMENT RELATIONSHIPS WITHOUT HIS MAP IS LIKELY IMPOSSIBLE.

THE BLM HAS BEEN IN THE AREA POST-FONGER, AND HAS MADE DECISIONS IN CADASTRAL CASES TO ACCEPT FONGER'S MONUMENTS AND SOME MONUMENTS BY OTHERS THAT FONGER ACCEPTED. WHILE ADDITIONAL FONGER MONUMENTS EXIST, THOSE THAT ARTISAN RE-TRACED ARE RECORDED HEREON, OR INCLUDED IN A CORNER RECORD FILED IN THE LINCOLN COUNTY RECORDER'S OFFICE AS DOC. NO. 0148417, BOOK D, PAGES 160-172. FOUND FONGER MONUMENTS SERVES AS PROOF THAT THE FONGER MAP AND ARTISAN COORDINATE SYSTEM CAN BE USED TO FIND FONGER MONUMENT EVIDENCE FOR INDIVIDUAL ANALYSIS. BLM ACCEPTED FONGER CORNERS CAN BE EVALUATED AS INDICATING THAT FONGER'S WORK WAS DILIGENTLY EXECUTED.

THE GROUND COORDINATES UPON THIS CONTROL PROJECT MAP (PG 1 OF 2) HAVE BEEN TRANSFORMED NEAR THE FONGER MAP. THEY INTENTIONALLY HAVE AN ADDITIVE VALUE IN NORTHING AND EASTING OF 100,000, AND 100,000, RESPECTIVELY. TO PRESERVE STATIC GPS ACCURACY, NO ROTATION, SCALE OR OTHER TRANSLATION HAS BEEN APPLIED.

THE FONGER MAP IS RECORDED PURSUANT TO STATUTE LAW UNDER NRS 625.340, 3. THE MAP AND SOME MONUMENTS CITED HEREIN CONSTITUTE UNRECORDED, MATERIAL EVIDENCE.

PROFESSIONALS THAT CHOOSE TO CONSIDER THE FONGER EVIDENCE (PAGE 2 OF 2), DO SO UNDER THEIR OWN RISK AND LIABILITY. ARTISAN SURVEYING GROUP, A NV LLC, ASSUMES NO LIABILITY, EXPRESS OR IMPLIED, CONCERNING THE APPROPRIATENESS, USE, MISUSE OR ADVERSE OUTCOME OF ANY CLAIMS OR JUDGEMENTS FROM USE OF THE FONGER MAP.

**PROJECTION**

LOCAL TRANSVERSE MERCATOR AT POINT CCC10, SCALE FACTOR TO GROUND: 1.0002060563

**REFERENCES**

"CADASTRAL CORNER TIE-LINE" INDICATES THAT OFFLINE INTERMEDIATE POINTS EXIST IN SOME CASES.

**SITE ACCESS**

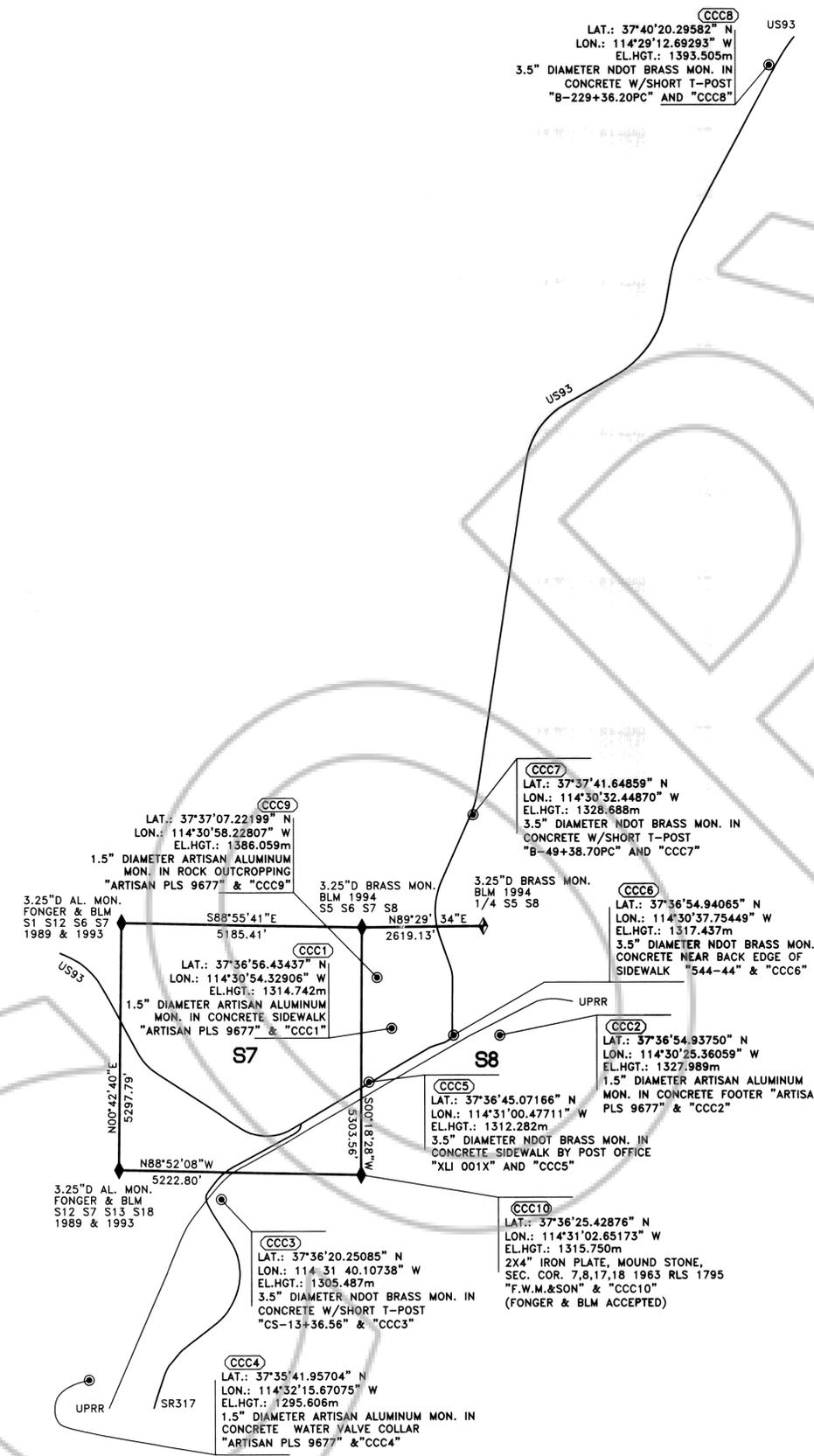
SOME ACCESS MAY BE RESTRICTED. CONTACT: JERRY CARTER, PUBLIC WORKS MANAGER (775) 726-3131.

**ABBREVIATION LISTING**

PROVENANCE:  
 RS = RECORD OF SURVEY FL = FILE (CLARK CO. RECORDER) BLM = BUREAU OF LAND MANAGEMENT  
 PM = PARCEL MAP PG = PAGE (CLK. CO. RECORDER) GLO = GENERAL LAND OFFICE  
 SD = SUBDIVISION MAP BK = BOOK (CLK. CO. RECORDER) DEP RSVY = DEPENDENT RESURVEY  
 MM = MISCELLANEOUS MAPS CCC = CALIENTE CITY CONTROL

DESCRIPTION:  
 F = FOUND B = BRASS  
 S = SET, THIS SURVEY A = ALUMINUM  
 DIA = DIAMETER (CIRCULAR) M = MONUMENT  
 M.O.E. = MODELED ORTHOMETRIC ELEVATION BASED UPON ELLIPSOID HEIGHT AND NGS GEOD12B SEPARATIONS.

"1958" = DATE SET BY ENTITY  
 PLS = PROFESSIONAL LAND SURVEYOR  
 CORS = CONTINUALLY OPERATING REFERENCE NETWORK  
 GENERAL: ELEV = ELEVATION  
 NO. = NUMBER



**LEGEND**

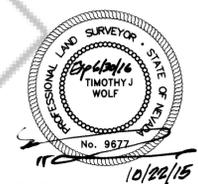
- CADASTRAL CORNER TIE-LINE (NOT SECTION LINE)
- SR317 US93 GENERAL LOCATION OF PAVED ROADWAY
- GENERAL LOCATION OF RAILROAD TRACKS
- ◆ SECTION CORNER, BLM OR BLM ACCEPTED FONGER
- ◆ 1/4 SECTION CORNER, BLM
- SET, 1.5" DIAMETER ARTISAN ALUMINUM MONUMENT
- MONUMENT IDENTIFICATION NUMBER

**SURVEYOR'S CERTIFICATES**

I, TIMOTHY J. WOLF, A PROFESSIONAL LAND SURVEYOR AND FORMER LINCOLN COUNTY SURVEYOR, REGISTERED IN THE STATE OF NEVADA, ACTING AS AGENT FOR ARTISAN SURVEYING GROUP, A NV LIMITED LIABILITY COMPANY, HEREBY CERTIFY THAT:

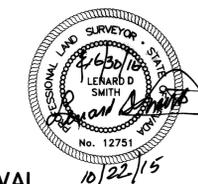
1. THIS PLAT, CONSISTING OF TWO SHEETS, REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF CITY OF CALIENTE.
2. THE LANDS SURVEYED LIES WITHIN SECTION 26 OF T3S, R67E, SECTIONS 1, 12, 13 OF T4S, R66E, SECTIONS 5, 6, 7, 8, 17, 18 OF T4S, R67E, MOUNT DIABLO MERIDIAN, LINCOLN COUNTY, NEVADA, AND THE SURVEY WAS COMPLETED ON 9/24/2015.
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.

TIMOTHY J. WOLF  
 PROFESSIONAL LAND SURVEYOR  
 NEVADA LICENSE NO. 9677  
 AGENT, ARTISAN SURVEYING GROUP  
 (FORMER LINCOLN COUNTY SURVEYOR)



I, LENARD D. SMITH, A PROFESSIONAL LAND SURVEYOR, REGISTERED IN THE STATE OF NEVADA, CERTIFY THAT DURING THE LAST TWENTY FIVE YEARS I HAVE RELIED ON THE FONGER MAP TO EVALUATE BOUNDARY EVIDENCE.

LENARD D. SMITH  
 PROFESSIONAL LAND SURVEYOR  
 NEVADA LICENSE NO. 12751  
 AGENT, LENARD SMITH LAND SURVEY



**CALIENTE CITY COUNCIL APPROVAL**

ON THIS 22ND DAY OF OCTOBER, 2015, THE CITY COUNCIL OF CALIENTE APPROVED THIS MAP FOR RECORDED AT THE LINCOLN COUNTY RECORDER'S OFFICE, LINCOLN COUNTY, NV.

*Steve Rowe* STEVE ROWE, MAYOR PRO TEM

**NO PROJECT BENCHMARK STATEMENT AND CAVEAT**

THIS CONTRACT DID NOT INCLUDE SERVICES TO PERFORM DIFFERENTIAL LEVELING AND THEREFORE NO DIFFERENTIALLY DERIVED ELEVATIONS ARE INCLUDED ANYWHERE AS A PART OF THIS MAP PRODUCT. HOWEVER, MODELED ORTHOMETRIC EQUIVALENTS WERE PRODUCED USING NATIONAL GEODETIC SURVEY'S GEOID MODEL "GEOID12B". THOSE NOT FAMILIAR WITH THE ACCURACY AND LIABILITY OF USING MODELED APPROXIMATIONS FOR ELEVATIONS SHOULD CONSULT AN EXPERT TO ASSIST THEM IN UNDERSTANDING SAME. NO LIABILITY IS ASSUMED OR ACCEPTED FOR IMPROPER USE OF MODELED INFORMATION.

**BASIS OF BEARINGS**

THE ORIENTATION OF DIRECTION HEREON DEPICTS GPS NORTH AS DERIVED FROM APPROXIMATELY 50-HOURS OF 15-SECOND STATIC OBSERVATIONS CONDUCTED AT STATIONS CCC4 AND CCC9 DEPLOYING NGS' OPUS SOLUTIONS, DAILY SPATIAL POSITIONING RESULTS PROVIDED BY OPUS WERE WEIGHTED USING THE INVERSE OF EACH DAY AND EACH DIRECTION'S INDIVIDUAL FIVE DAY ERROR ESTIMATE. THE FINAL BEARINGS WERE PROJECTED THROUGH POINT CCC10 IN ORDER TO REPLICATE RICHARD FONGER, PLS' CITY OF CALIENTE CONTROL NETWORK SOLAR BEARING OBSERVATION. THEREFORE, THE BASIS OF BEARINGS HEREIN DEPICTS A TRUE MERIDIAN PASSING THROUGH POINT CCC10 AT LATITUDE: 37°36'25.42876", LONGITUDE: 114°31'02.65173" W, AND ELLIPSOID HEIGHT: 1315.750 METERS.

**REFERENCES**

1. OFFICIAL SEALED MINUTES, CITY OF CALIENTE COUNCIL, UNANIMOUSLY APPROVED. DOC. NO. 0148417.
2. UNRECORDED APPROVED SURVEY: RICHARD FONGER, PLS, SEALED 7/6/1990, CITY OF CALIENTE CONTROL.
3. GOVT PLAT & NOTES: DEP. RSVRY., USBLM, RICHARD ZANINOVICH COS, APP 9/18/2001.
4. CORNER RECORD AND NOTICE COLLECTIVELY FILED AS DOCUMENT 0148417, BOOK D, PAGES 160-172. NOTE: POINTS 17, 19 WERE ALSO FOUND IN ADDITION TO THE POINTS SHOWN ON THE CORNER RECORDS.
5. ADJUSTMENTS COMPUTATIONS, DR. P.R. WOLF, ET. AL., CHAPTER 17, ISBN 0-471-16833-5.

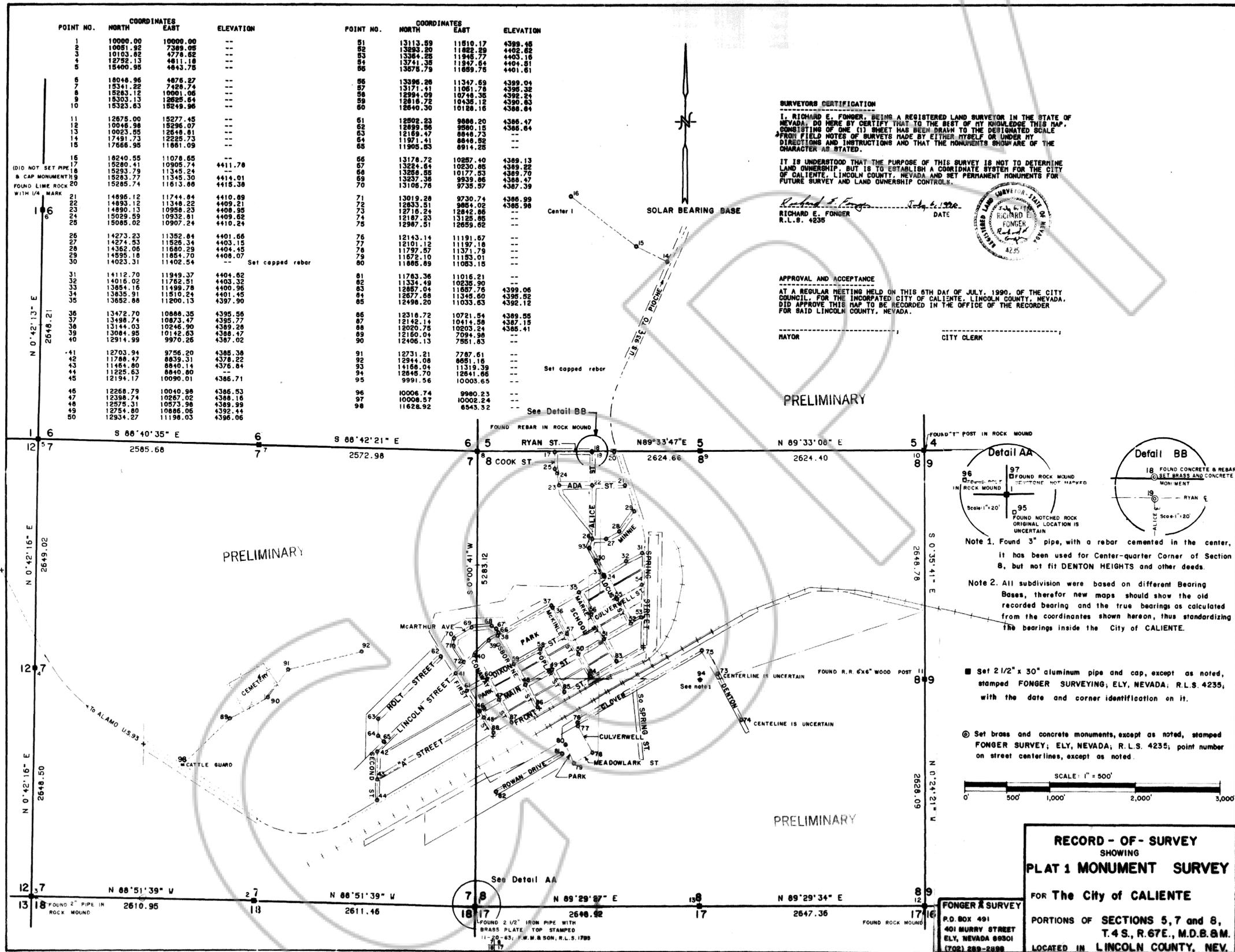
**RECORDER'S NOTE**

ANY SUBSEQUENT CHANGES TO THIS MAP MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S CUMULATIVE MAP INDEX. NRS 278.5695

<b>RECORD OF SURVEY</b>		<b>DOC # 0148460</b>	
FOR		10/23/2015 11:45 AM	
<b>CITY OF CALIENTE</b>		<b>Official Record</b>	
<b>CALIENTE CITY CONTROL</b>		Recorded By: Leslie Boucher - Recorder	
<b>T3S AND T4S, R 67E, M.D.M.</b>		Page of 2	
<b>ARTISAN SURVEYING GROUP</b>		RPTT: Recorded By: RE	
"WHERE ART & MEASUREMENT SCIENCE CONVERGE" P.O. BOX 396, PLOUFE, NV 89043 (775) 952-4400 (24/7) TWolf@ArtisanSurveying.com www.ArtisanSurveying.com A VETERAN-OWNED GEOSPATIAL COMPANY		Book- D Page- 0176	
CONTRACT ART-CCC 8/30/15		SHEET	
LOCATION CALIENTE, NV		1 of 2	
NAME CALROS.DWG		3	
DATE 10/22/15		2	
DRAWN T.J.W.		1	
CK'D K.D. JC		2	
H. SCALE 1"=1,600'		3	
V. SCALE N/A		4	

PRELIMINARY

PRELIMINARY



POINT NO.	COORDINATES		ELEVATION	POINT NO.	COORDINATES		ELEVATION
	NORTH	EAST			NORTH	EAST	
1	10000.00	10000.00	---	51	13113.59	11510.17	4399.45
2	10081.92	7389.05	---	52	13893.20	11822.29	4402.62
3	10103.62	4778.82	---	53	13364.26	11946.77	4403.16
4	12752.13	4811.18	---	54	13741.35	11847.64	4404.81
5	15400.95	4443.75	---	55	13675.79	11699.75	4401.61
6	18048.95	4875.27	---	56	13396.26	11347.69	4399.04
7	15341.22	7428.74	---	57	13171.41	11061.79	4396.32
8	15283.12	10901.06	---	58	12994.09	10748.35	4392.24
9	15303.13	12625.54	---	59	12816.72	10436.12	4390.63
10	15323.63	15249.96	---	60	12640.30	10128.16	4388.84
11	12675.00	15277.45	---	61	12502.23	9886.20	4385.47
12	10046.98	15295.07	---	62	12395.96	9590.15	4385.64
13	10023.05	12646.81	---	63	12189.47	8848.73	---
14	17491.73	12225.73	---	64	11971.41	8646.52	---
15	17666.95	11681.09	---	65	11905.63	8914.25	---
16	18240.55	11078.65	---	66	13176.72	10257.40	4389.13
17	15280.41	10905.74	4411.78	67	13224.64	10230.85	4389.22
18	15293.79	11345.24	---	68	13256.85	10177.53	4389.70
19	15283.77	11345.30	4414.01	69	13237.36	9939.86	4389.47
20	15285.74	11613.86	4415.38	70	13106.76	9735.57	4387.39
21	14895.12	11744.84	4410.89	71	13019.28	9730.74	4386.99
22	14893.12	11346.22	4409.21	72	12833.51	9864.02	4385.98
23	14890.13	10958.23	4408.95	73	12716.24	12842.86	---
24	15029.59	10932.81	4409.82	74	12187.23	13125.85	---
25	15085.02	10907.24	4410.24	75	12987.51	12659.62	---
26	14273.23	11352.84	4401.66	76	12143.14	11191.67	---
27	14274.53	11526.34	4403.15	77	12101.12	11197.16	---
28	14362.06	11680.29	4404.45	78	11797.57	11371.79	---
29	14895.18	11854.70	4408.07	79	11672.10	11153.01	---
30	14023.31	11402.54	---	80	11685.89	11083.15	---
31	14112.70	11949.37	4404.62	81	11783.36	11016.21	---
32	14016.02	11762.51	4403.32	82	11334.49	10235.90	---
33	13854.16	11499.78	4400.96	83	12867.04	11657.76	4399.06
34	13835.91	11510.24	4401.45	84	12677.68	11345.60	4395.92
35	13652.86	11200.13	4397.90	85	12498.20	11033.63	4392.12
36	13472.70	10888.35	4395.56	86	12318.72	10721.54	4389.95
37	13498.74	10873.47	4395.77	87	12142.14	10414.58	4387.15
38	13144.03	10246.90	4389.26	88	12020.75	10203.24	4385.41
39	13084.95	10142.63	4388.47	89	12160.04	7094.98	---
40	12914.99	9970.26	4387.02	90	12406.13	7551.63	---
41	12703.94	9756.20	4385.38	91	12731.21	7787.61	---
42	11788.47	8639.31	4378.22	92	12944.08	6651.16	---
43	11854.80	8840.14	4376.84	93	14156.04	11319.39	---
44	11225.63	8840.80	---	94	12645.70	12841.68	---
45	12194.17	10090.01	4386.71	95	9991.56	10003.65	---
46	12258.79	10040.98	4386.53	96	10006.74	9980.23	---
47	12398.74	10267.02	4388.16	97	10008.57	10002.24	---
48	12575.31	10573.98	4389.99	98	11628.92	6543.32	---
49	12754.80	10885.06	4392.44				
50	12934.27	11196.03	4396.06				

**SURVEYORS CERTIFICATION**  
 I, RICHARD E. FONGER, BEING A REGISTERED LAND SURVEYOR IN THE STATE OF NEVADA, DO HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS MAP, CONSISTING OF ONE (1) SHEET HAS BEEN DRAWN TO THE DESIGNATED SCALE FROM FIELD NOTES OF SURVEYS MADE BY EITHER MYSELF OR UNDER MY DIRECTIONS AND INSTRUCTIONS AND THAT THE MONUMENTS SHOW ARE OF THE CHARACTER AS STATED.

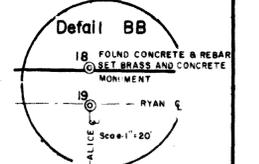
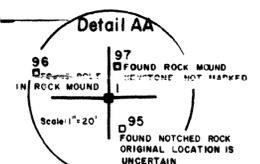
IT IS UNDERSTOOD THAT THE PURPOSE OF THIS SURVEY IS NOT TO DETERMINE LAND OWNERSHIP, BUT IS TO ESTABLISH A COORDINATE SYSTEM FOR THE CITY OF CALIENTE, LINCOLN COUNTY, NEVADA AND SET PERMANENT MONUMENTS FOR FUTURE SURVEY AND LAND OWNERSHIP CONTROLS.

Richard E. Fonger  
 RICHARD E. FONGER  
 R.L.S. 4235



**APPROVAL AND ACCEPTANCE**  
 AT A REGULAR MEETING HELD ON THIS 6TH DAY OF JULY, 1990, OF THE CITY COUNCIL, FOR THE INCORPORATED CITY OF CALIENTE, LINCOLN COUNTY, NEVADA, DID APPROVE THIS MAP TO BE RECORDED IN THE OFFICE OF THE RECORDER FOR SAID LINCOLN COUNTY, NEVADA.

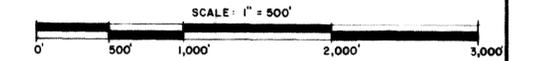
\_\_\_\_\_  
 MAYOR  
 \_\_\_\_\_  
 CITY CLERK



Note 1. Found 3" pipe, with a rebar cemented in the center. It has been used for Center-quarter Corner of Section 8, but not fit DENTON HEIGHTS and other deeds.  
 Note 2. All subdivision were based on different Bearing Bases, therefore new maps should show the old recorded bearing and the true bearings as calculated from the coordinates shown hereon, thus standardizing the bearings inside the City of CALIENTE.

■ Set 2 1/2" x 30" aluminum pipe and cap, except as noted, stamped FONGER SURVEYING; ELY, NEVADA; R.L.S. 4235, with the date and corner identification on it.

⊙ Set brass and concrete monuments, except as noted, stamped FONGER SURVEYING; ELY, NEVADA; R.L.S. 4235; point number on street centerlines, except as noted.



**RECORD - OF - SURVEY**  
 SHOWING  
**PLAT 1 MONUMENT SURVEY**  
 FOR The City of CALIENTE  
 PORTIONS OF SECTIONS 5, 7 and 8,  
 T.4 S., R.67 E., M.D.B.&M.  
 LOCATED IN LINCOLN COUNTY, NEV.

FONGER & SURVEY  
 P.O. BOX 491  
 401 MURRY STREET  
 ELY, NEVADA 89301  
 (702) 289-2888