

**GNSS PROJECT CONTROL MONUMENTS - NAD83(2011) EPOCH 2010.00**

POINT		NAD83(2011) GEODETIC COORDINATES			NETWORK ACCURACY (2σ)		CCS83, ZONE 1 EPOCH 2010.00		ORTHO HEIGHT				
POINT	PID	LATITUDE	LONGITUDE	ELLIP. HT.	CIRCULAR ERROR(CM)	HEIGHT (CM)	NORTHING	EASTING	ELEVATION	DESCRIPTION	CGF	MAP ANGLE	MONUMENTATION TYPE
7-36-0.77		N40°18'39.29814"	W121°02'55.05165"	5027.66	0.50	0.55	1997987.75	6826971.67	5103.89	PROJECT	0.9996958890	0°37'20"	BRASS DISK IN CONCRETE
7-36-2.06		N40°18'47.11323"	W121°01'25.73081"	5082.26	0.52	0.64	1998854.61	6833881.60	5158.23	PROJECT	0.9996929370	0°38'18"	BRASS DISK IN CONCRETE
7-36-2.37		N40°18'49.57286"	W121°01'06.35793"	5095.19	0.47	0.61	1999120.24	6835379.37	5171.11	SUPPLEMENTAL	0.9996922110	0°38'31"	1" COPPERWELD SET IN ASPHALT
7-36-4.18		N40°18'50.85962"	W120°59'02.99145"	5038.14	0.58	0.70	1999359.36	6844933.29	5113.72	PROJECT	0.9996948820	0°39'51"	BRASS DISK IN CONCRETE
7-36-4.95		N40°18'59.38896"	W120°58'12.82855"	5073.52	0.50	0.64	2000267.73	6848808.52	5148.95	PROJECT	0.9996928190	0°40'24"	BRASS DISK IN CONCRETE
7-36-5.80		N40°19'01.45448"	W120°57'14.61024"	5000.89	0.44	0.49	2000530.14	6853315.15	5076.18	PROJECT	0.9996962000	0°41'02"	BRASS DISK IN CONCRETE
9-36-7.44		N40°17'34.19176"	W121°14'33.56969"	4457.37	0.47	0.40	1990872.33	6772921.19	4535.49	PROJECT	0.9997260570	0°29'43"	BRASS DISK IN CONCRETE
9-36-8.55		N40°18'25.43228"	W121°13'52.46205"	4450.88	0.56	0.55	1996084.87	6776060.80	4528.91	PROJECT	0.9997240660	0°30'10"	BRASS DISK EPOXIED IN SIDEWALK
9-36-9.64		N40°18'47.01786"	W121°12'51.84929"	4440.80	0.52	0.58	1998310.67	6780736.61	4518.71	PROJECT	0.9997235970	0°30'49"	BRASS DISK IN CONCRETE
9-36-10.00		N40°18'46.02779"	W121°12'27.40274"	4442.92	0.50	0.61	1998227.54	6782631.11	4520.79	PROJECT	0.9997235390	0°31'05"	BRASS DISK IN CONCRETE
9-36-10.50		N40°18'43.51300"	W121°11'52.81091"	4445.08	0.50	0.61	1997997.45	6785312.87	4522.88	PROJECT	0.9997235460	0°31'28"	BRASS DISK IN CONCRETE
9-36-11.61		N40°18'57.46836"	W121°10'42.24339"	4519.86	0.58	0.91	1999460.17	6790765.75	4597.43	PROJECT	0.9997193620	0°32'14"	BRASS DISK IN CONCRETE
9-36-12.67		N40°18'17.07694"	W121°09'53.58630"	4696.21	0.43	0.46	1995408.79	6794573.42	4773.76	PROJECT	0.9997127120	0°32'46"	BRASS DISK EPOXIED IN ROCK
9-36-12.95		N40°18'07.30573"	W121°09'39.26675"	4771.50	0.49	0.52	1994430.69	6795692.19	4849.03	PROJECT	0.9997095500	0°32'55"	BRASS DISK IN CONCRETE
9-36-14.97		N40°18'39.41798"	W121°07'29.98777"	4880.39	0.47	0.46	1997777.92	6805675.06	4957.42	PROJECT	0.9997029220	0°34'20"	BRASS DISK IN CONCRETE
9-36-16.00		N40°18'58.20118"	W121°06'23.99447"	4945.40	0.59	0.61	1999730.07	6810767.52	5022.19	PROJECT	0.9996989930	0°35'03"	BRASS DISK EPOXIED IN ROCK
9-36-16.88		N40°18'52.41599"	W121°05'24.82632"	4884.88	0.59	0.64	1999191.85	6815356.40	4961.51	PROJECT	0.9997021380	0°35'42"	BRASS DISK IN CONCRETE
9-36-17.18		N40°18'52.46066"	W121°05'04.77304"	4897.15	0.62	0.67	1999212.55	6816909.59	4973.72	PROJECT	0.9997015490	0°35'55"	BRASS DISK IN CONCRETE
9-36-18.15		N40°18'53.03089"	W121°03'59.03623"	4929.76	0.61	0.73	1999323.97	6822000.65	5006.14	PROJECT	0.9996999660	0°36'38"	BRASS DISK EPOXIED IN ROCK
9-147-7.36		N40°16'12.55297"	W121°05'12.34748"	4529.12	0.40	0.49	1983026.32	6816491.55	4606.01	PROJECT	0.9997264200	0°35'50"	BRASS DISK IN CONCRETE
36 LAS 6.93	DH6578	N40°19'30.14923"	W120°56'12.88636"	5012.55	0.54	0.96	2003491.07	6858060.52	5087.66	PRIMARY	0.9996944040	0°41'42"	FOUND PER NGS DATA SHEET
36 PLU 13.94	DH6579	N40°18'20.96994"	W121°08'35.38516"	4808.38	0.61	0.98	1995861.20	6800627.62	4885.67	PRIMARY	0.9997071790	0°33'37"	FOUND PER NGS DATA SHEET
89 PLU 37.49	DH6607	N40°13'27.58188"	W121°12'07.68671"	4482.08	0.52	0.88	1966019.33	6784451.69	4560.20	PRIMARY	0.9997368030	0°31'18"	FOUND PER NGS DATA SHEET
A13-3.37		N40°17'59.40002"	W121°08'14.70631"	4752.66	0.41	0.40	1993694.37	6802251.01	4829.94	PROJECT	0.9997108050	0°33'51"	BRASS DISK IN CONCRETE
DUFFY 2		N40°18'13.73557"	W120°56'32.63414"	4984.39	0.53	0.58	1995740.86	6856624.54	5059.68	PROJECT	0.9996990890	0°41'30"	BRASS DISK IN CONCRETE
DYER	LT0652	N40°14'21.53660"	W121°01'57.23981"	7404.26	0.49	0.90	1971955.59	6831737.71	7480.48	PRIMARY	0.9995944350	0°37'57"	FOUND PER NGS DATA SHEET
G 139	LT0286	N40°18'45.67166"	W121°01'47.82006"	5056.76	0.53	0.61	1998689.74	6832172.25	5132.79	PROJECT	0.9996942190	0°38'03"	FOUND PER NGS DATA SHEET
HPGN D CA 02 FR	DF4391	N40°17'19.73895"	W121°14'26.97974"	4450.57	0.45	0.80	1989414.32	6773444.46	4528.69	PRIMARY	0.9997270420	0°29'47"	FOUND PER NGS DATA SHEET
HPGN D CA 02 FS	AE8716	N40°18'12.11057"	W121°02'28.94741"	5010.28	0.39	0.78	1995258.85	6829023.79	5086.47	PRIMARY	0.9996979250	0°37'37"	FOUND PER NGS DATA SHEET
J 139		N40°18'52.94410"	W120°59'55.62546"	5040.90	0.62	0.73	1999523.35	6840854.11	5116.62	PROJECT	0.9996946590	0°39'17"	USC&GS BRASS DISK IN CONCRETE

**SURVEY NOTES:**

- CADT IS AN ACRONYM FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION A.K.A CALTRANS.
- ALL COORDINATES SHOWN ARE IN TERMS OF THE U.S. SURVEY FOOT UNLESS NOTED OTHERWISE.
- ORTHOMETRIC HEIGHTS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 DERIVED USING GEOID MODEL 18.
- COORDINATE ERRORS ARE CALCULATED PER THE STANDARDS SET BY THE FEDERAL GEOGRAPHIC DATA COMMITTEE'S GEOSPATIAL POSITIONING ACCURACY STANDARDS, SPECIFICALLY FGDC-STD-007.3-1998 (PART 3 NATIONAL STANDARD FOR SPATIAL DATA ACCURACY).
- ALL PRIMARY AND PROJECT CONTROL MONUMENTS ESTABLISHED BY THIS SURVEY CONFORM TO THE STANDARDS OF 0.07' (2CM) NETWORK ACCURACY, OR HIGHER, FOR HORIZONTAL AND VERTICAL POSITIONAL ACCURACY AS SET FORTH IN CHAPTER 5 OF THE CALTRANS SURVEYS MANUAL (2015) UNLESS NOTED OTHERWISE.

- ALL SUPPLEMENTAL CONTROL MONUMENTS ESTABLISHED BY THIS SURVEY MEET OR EXCEED THE STANDARDS OF 0.07' (2CM) LOCAL ACCURACY FOR HORIZONTAL POSITIONAL ACCURACY AS SET FORTH IN CHAPTER 5 OF THE CALTRANS SURVEYS MANUAL (2015) UNLESS NOTED OTHERWISE.
- PRIMARY, PROJECT, AND SUPPLEMENTAL MONUMENT TYPES ARE FURTHER DEFINED IN SECTION 5.8, CHAPTER 5 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION SURVEYS MANUAL (2015).
- THIS SURVEY WAS CONDUCTED UTILIZING STATIC GPS SURVEY METHODS IN ACCORDANCE WITH CHAPTER 6 OF THE CALTRANS SURVEYS MANUAL (2012 CALIFORNIA DEPARTMENT OF TRANSPORTATION). FIELD MEASUREMENTS WERE COLLECTED USING TRIMBLE R10 GNSS ANTENNAS. THE GNSS DATA WAS PROCESSED AND THE SURVEY NETWORK WAS ADJUSTED (USING A LEAST SQUARES ADJUSTMENT) IN TRIMBLE BUSINESS CENTER VERSION 5.30 SOFTWARE.
- COMBINED GRID FACTORS SHOWN FOR NGS MONUMENTS DIFFER FROM VALUES LISTED ON NGS DATA SHEETS. THE VALUES SHOWN HEREON ARE DERIVED FROM TRIMBLE BUSINESS CENTER. THE DIFFERENCE IN VALUES IS DUE TO UTILIZATION OF DIFFERENT METHODS TO COMPUTE ELEVATION FACTORS BY TRIMBLE BUSINESS CENTER AND NGS.

STATE OF CALIFORNIA CALIFORNIA STATE TRANSPORTATION AGENCY DEPARTMENT OF TRANSPORTATION, DISTRICT 2			
<b>RECORD OF SURVEY                  FOR GNSS PROJECT CONTROL                  ON NAD83(2011), EPOCH 2010.00</b>			
IN THE UNINCORPORATED TERRITORIES OF THE COUNTIES OF PLUMAS & LASSEN, STATE OF CALIFORNIA, ALONG STATE ROUTE 36, FROM POSTMILE PLU7.44 TO LAS6.93 SITUATED IN SECTIONS 3,4,5,7,11,12 T28N R7E; 1,2,3,4,5,6 T28N R8E; 3,4,5,6 T28N R9E; 35 T29N R9E; OF THE MOUNT DIABLO BASE AND MERIDIAN			
EA:	4H060	EFIS:	0218000073
CO.	RTE.	P.M.	SHEET NO.
PLU	36	7.44 TO 18.15	2 OF 2
LAS	36	0.77 TO 6.93	

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