

**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	DESCRIPTION	CGF	MAP ANGLE	MONUMENTATION TYPE
	PID	LATITUDE	LONGITUDE	ELLIP. HT.	CIRCULAR ERROR	HEIGHT	NORTHING	EASTING	ELEVATION				
395 LAS 1.75	DH6387	N39°44'00.57157"	W120°02'19.50542"	4903.09	FIXED	FIXED	1792372.71	7113262.94	4980.85	FOUND CADH BRASS DISC IN TOP OF CONCRETE MONUMENT STAMPED "7-395-1C"	0.999843794	1°16'57"	PRIMARY
395 LAS 10.05	DH6082	N39°51'11.28834"	W120°02'33.20454"	4658.37	FIXED	FIXED	1835923.38	7111219.30	4736.14	FOUND CADT BRASS DISC ON IRON PIPE IN CONCRETE STAMPED "395 LAS 10.05"	0.999817946	1°16'48"	PRIMARY
BUTTES	DH6418	N39°48'34.48106"	W120°18'39.43208"	4861.82	FIXED	FIXED	1818490.71	7036182.84	4938.90	FOUND CSRC DISC ON METAL ROD STAMPED "BUTTES 2004"	0.999821406	1°06'16"	PRIMARY
CORRECO	DH6422	N39°44'49.25383"	W120°12'41.98153"	4844.51	FIXED	0.03	1796257.51	7064538.97	4921.94	FOUND CSRC DISC ON METAL ROD STAMPED "CORRECO 2004"	0.999842133	1°10'10"	PROJECT
SAGE	KS1349	N39°47'27.28783"	W120°02'19.76956"	5028.73	FIXED	FIXED	1813285.32	7112774.16	5106.56	FOUND CADH BRASS DISC IN TOP OF CONCRETE MONUMENT STAMPED "SAGE 1966 USC-GS"	0.999819258	1°16'57"	PRIMARY
VINTON	DH6433	N39°47'55.74208"	W120°08'53.56024"	4948.28	FIXED	FIXED	1815495.24	7081979.51	5025.70	FOUND CSRC ALUMINUM DISC IN MONUMENT WELL STAMPED "VINTON 2004"	0.999820621	1°12'39"	PRIMARY
27R-3		N39°46'45.88787"	W120°03'17.43219"	4870.04	0.03	0.03	1808996.63	7108366.87	4947.88	FOUND CADT TBAR WITH BATHY CAP SET IN CONCRETE STAMPED "27R-3"	0.999830463	1°16'19"	PROJECT
7-70-0.94		N39°47'21.25955"	W120°05'26.40667"	4953.72	0.03	0.03	1812353.68	7098221.27	5031.43	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "7-70-0.94"	0.999823364	1°14'55"	PROJECT
7-70-1.90		N39°47'05.62342"	W120°04'25.97127"	4712.62	0.03	0.03	1810875.05	7102972.90	4790.42	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "7-70 1.90 GPS"	0.999836235	1°15'34"	PROJECT
7-70-3.73		N39°46'32.59935"	W120°02'28.51671"	4919.71	0.03	0.02	1807737.33	7112215.19	4997.54	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "7-70 3.73 GPS"	0.999829268	1°16'51"	SUPPLEMENTAL
7-70-3.91		N39°46'29.17719"	W120°02'14.56079"	4948.34	0.03	0.03	1807415.50	7113312.38	5026.16	FOUND 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "7-70-3.91 GPS"	0.999828206	1°17'00"	PROJECT
9-70-89.98		N39°48'34.54535"	W120°12'59.88574"	4841.76	0.03	0.03	1819022.24	7062676.70	4918.93	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "9-70-89.98"	0.999822357	1°09'58"	PROJECT
9-70-90.40		N39°48'34.27062"	W120°12'31.74461"	4847.73	0.03	0.03	1819039.24	7064873.03	4924.91	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "9-70 90.40 GPS"	0.999822096	1°10'16"	PROJECT
9-70-91.50		N39°48'28.80017"	W120°11'17.66102"	4864.77	0.03	0.03	1818604.65	7070664.96	4942.00	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "9-70-91.50"	0.999821752	1°11'05"	PROJECT
9-70-92.62		N39°48'05.48934"	W120°10'07.89113"	4883.71	0.03	0.03	1816359.46	7076158.26	4961.04	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "9-70-92.62 GPS"	0.999822858	1°11'50"	PROJECT
9-70-94.92		N39°47'47.31386"	W120°07'34.50511"	5013.47	0.03	0.03	1814773.73	7088167.03	5090.99	SET 2.25" CADT BRASS DISC/IRON PIPE IN CONCRETE STAMPED "9-70-94.92 GPS"	0.999818243	1°13'31"	PROJECT
CM 93.87		N39°47'54.48718"	W120°08'43.63593"	4921.96	0.03	0.02	1815384.66	7082756.67	4999.40	FOUND #5 REBAR WITH CADT 1.25" ALLUMINUM CAP STAMPED "CM 93.87"	0.999821985	1°12'46"	SUPPLEMENTAL
D 143	KS0060	N39°48'33.80139"	W120°14'06.60543"	4830.05	0.03	0.03	1818841.55	7057472.29	4907.22	FOUND CGS BRASS DISC IN CONCRETE STAMPED "D143"	0.99982298	1°09'14"	PROJECT
GEO 23	KS1352	N39°47'25.26679"	W120°06'34.07207"	5156.37	0.03	0.03	1812644.56	7092931.37	5233.96	FOUND CADH BRASS DISC IN CONCRETE STAMPED "GEO 23 1966 USC&GS RM1"	0.999813346	1°14'10"	PROJECT

**SURVEY NOTES:**

- CADT IS AN ACRONYM FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION.
- ALL COORDINATES AND DISTANCES SHOWN ARE IN TERMS OF THE U.S. SURVEY FOOT UNLESS NOTED OTHERWISE.
- ORTHOMETRIC HEIGHTS ARE DERIVED USING GEOID MODEL GEOID12B.
- 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 2CM (0.07') NETWORK ACCURACY FOR HORIZONTAL VALUES AND 0.07 FT (TWO CENTIMETER) LOCAL ACCURACY FOR VERTICAL VALUES, 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 FT (TWO CENTIMETER) LOCAL ACCURACY FOR BOTH HORIZONTAL AND VERTICAL VALUES AS SET FORTH IN CHAPTER 5 OF THE CALTRANS SURVEYS MANUAL (2015).
- MONUMENTATION 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 R8 GNSS ANTENNAS. THE GNSS DATA WAS PROCESSED AND THE SURVEY NETWORK WAS ADJUSTED (USING A LEAST SQUARES ADJUSTMENT) IN TRIMBLE BUSINESS CENTER VERSION 3.81 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			
RECORD OF SURVEY FOR GNSS PROJECT CONTROL ON NAD83(2011) DATUM - EPOCH 2010.00 EA: OH760 EFIS: 0215000086			
IN THE COUNTIES OF LASSEN AND PLUMAS, STATE OF CALIFORNIA, ALONG STATE ROUTE 70, FROM POSTMILE 0.0 TO 3.91 (LAS) AND 89.0 TO 95.95 (PLU) WITHIN S.3-6,10,&11 T.22N., R.17E., AND S.31 T.23N., R.17E., AND S.32-36 T.23N., R.16E. OF THE MOUNT DIABLO MERIDIAN			
CO.	RTE.	P.M.	SHEET NO.
LAS	70	0.0 TO 3.91	2 OF 2
PLU	70	89.0 TO 95.95	

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