

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				
	PID	LATITUDE	LONGITUDE	ELLIP. HEIGHT	CIRCULAR ERROR	HEIGHT	NORTHING	EASTING	ELEVATION	DESCRIPTION	CGF	MAP ANGLE	MONUMENTATION TYPE
9-70-85.33 GPS		39°48'35.42291"	-120°18'16.26579"	4952.897	0.020	0.022	1818620.91	7037988.62	5029.94	COPPER WELD IN ROCK	0.999816511	1°06'31.1"	PROJECT
9-70-86.14 GPS		39°48'35.14612"	-120°17'20.38002"	4809.412	0.027	0.031	1818677.68	7042349.82	4886.50	BRASS DISK IN PIPE SET IN CONCRETE	0.999823393	1°07'07.7"	PROJECT
9-70-87.97 GPS		39°48'35.70724"	-120°15'16.45614"	4820.685	0.029	0.034	1818925.19	7052018.17	4897.85	BRASS DISK IN PIPE SET IN CONCRETE	0.999822806	1°08'28.7"	PROJECT
9-70-89.98 GPS		39°48'34.54526"	-120°12'59.88597"	4841.417	0.025	0.031	1819022.23	7062676.69	4918.64	BRASS DISK IN PIPE SET IN CONCRETE	0.999821915	1°09'58.0"	PROJECT
9-70-90.40 GPS		39°48'34.27032"	-120°12'31.74466"	4847.520	0.024	0.030	1819039.21	7064873.03	4924.76	BRASS DISK IN PIPE SET IN CONCRETE	0.999821647	1°10'16.4"	PROJECT
BUTTES	DH6418	39°48'34.48106"	-120°18'39.43208"	4861.821	0.020	0.030	1818490.71	7036182.84	4938.85	FOUND PER NGS DATA SHEET	0.999820945	1°06'16.0"	PRIMARY
CMON 82.93		39°49'02.51889"	-120°20'50.48785"	4811.516	0.018	0.021	1821132.40	7025903.21	4888.35	CONCRETE MONUMENT	0.999820954	1°04'50.3"	PROJECT
CMON 83.94		39°48'59.97029"	-120°19'42.37297"	4813.490	0.020	0.024	1820975.37	7031222.44	4890.39	CONCRETE MONUMENT	0.999821077	1°05'34.8"	PROJECT
D 143	KS0060	39°48'33.80147"	-120°14'06.60529"	4829.713	0.025	0.031	1818841.56	7057472.30	4906.91	BRASS DISK IN CONCRETE	0.999822538	1°09'14.4"	PROJECT
E 143	KS0061	39°48'35.35896"	-120°16'29.25732"	4812.283	0.029	0.034	1818777.44	7046338.38	4889.41	BRASS DISK IN CONCRETE	0.999823237	1°07'41.1"	PROJECT
HAWLEY		39°49'05.39539"	-120°22'29.83615"	4811.106	0.021	0.023	1821278.44	7018146.62	4887.83	FOUND PER NGS DATA SHEET	0.999820729	1°03'45.3"	PROJECT
HERIOT	DH6476	39°40'45.04728"	-120°18'13.93231"	4836.014	0.017	0.029	1771034.33	7039092.01	4913.44	BRASS DISK IN CONCRETE	0.999864977	1°06'32.7"	PRIMARY
HPGN D CA 03 MO	AE9836	39°49'06.38662"	-120°23'29.11252"	4807.221	0.014	0.024	1821293.39	7013520.05	4883.88	FOUND PER NGS DATA SHEET	0.999820883	1°03'06.6"	PRIMARY
O02 A	DF5269	39°49'09.56808"	-120°21'40.00020"	4822.395	0.016	0.042	1821773.04	7022026.90	4899.16	FOUND PER NGS DATA SHEET	0.999819835	1°04'17.9"	PRIMARY
O02 C	DF5271	39°49'05.70841"	-120°21'07.75223"	4814.666	0.016	0.043	1821429.73	7024550.17	4891.48	FOUND PER NGS DATA SHEET	0.999820532	1°04'39.0"	PRIMARY
VINTON	DH6433	39°47'55.74208"	-120°08'53.56024"	4948.284	0.011	0.020	1815495.24	7081979.51	5025.70	FOUND PER NGS DATA SHEET	0.999820152	1°12'39.1"	PRIMARY

SURVEY NOTES:

- CADT IS AN ACRONYM FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION A.K.A CALTRANS.
- ALL COORDINATES AND DISTANCES 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 GEOID18.
- 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 FT (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 CALTRANS SURVEYS MANUAL (2015).
- THIS SURVEY WAS CONDUCTED UTILIZING STATIC GPS SURVEY METHODS IN ACCORDANCE WITH CHAPTER 6 OF THE CALTRANS SURVEYS MANUAL (2012). FIELD MEASUREMENTS WERE COLLECTED USING TRIMBLE R8 GNSS RECEIVERS. THE GNSS DATA WAS PROCESSED AND THE SURVEY NETWORK WAS ADJUSTED (USING A LEAST SQUARES ADJUSTMENT) IN TRIMBLE BUSINESS CENTER VERSION 5.40 SOFTWARE.
- USC&GS STATIONS D 143 (PID KS0060) AND E 143 (PID KS0061) WERE NOT CONSTRAINED AS PRIMARY CONTROL DUE TO LOCAL SUBSIDENCE.

STATE OF CALIFORNIA CALIFORNIA STATE TRANSPORTATION AGENCY DEPARTMENT OF TRANSPORTATION, DISTRICT 2			
RECORD OF SURVEY FOR GNSS PROJECT CONTROL ON NAD83(2011), EPOCH 2010.00			
IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF PLUMAS, STATE OF CALIFORNIA, ALONG STATE ROUTE 70, FROM POSTMILE 80.1 TO 90.4 SITUATED IN SECTIONS 25,26,27,T23N R14E; 25,29,30,33,34,35,T23N R15E; 29,31,34,T23N R16E; 9,T21N R15E OF THE MOUNT DIABLO BASE AND MERIDIAN			
EA:	4H010	EFIS:	0218000068
CO.	RTE.	P.M.	SHEET NO.
PLU	70	80.1 TO 90.4	2 OF 2

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