

SURVEY CONTROL INFORMATION SHEET

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI SR 200(3)	A4	A5

ID	NORTHING	EASTING	ELEVATION	STATION	OFFSET	ID	NORTHING	EASTING	ELEVATION	STATION	OFFSET
ESR 90	-6382.504	-46272.432	2855.06	0.00	0.00	PKEASE2	-13155.497	-32025.119	2176.32	1707+61.47	176.70
ESR 91	-6485.097	-45713.528	2848.29	1547+08.45	11.19	CP1711+27	-13148.707	-31769.267	2165.04	1709+57.67	19.51
ESR 92	-6704.111	-45240.586	2827.29	1552+22.52	82.05	ESR112B2	-12716.233	-31034.318	2128.99	1714+20.58	-728.69
ESR 93	-6737.552	-44718.139	2795.90	1557+33.29	-34.32	CP1720+16	-13530.958	-30966.720	2120.60	1718+46.76	-2.48
ESR 94	-7019.619	-44109.521	2731.72	1564+02.19	-6.27	CP1723+00	-13614.528	-30695.204	2099.08	1721+31.03	-0.08
ESR 94B	-7237.487	-43554.943	2664.40	1569+96.11	-23.73	CP1730+91	-13807.161	-29927.626	2036.46	1729+22.41	-2.09
ESR 95	-7333.965	-43353.382	2660.78	1572+14.24	-48.10	CP1731+65	-13821.204	-29855.413	2013.25	1729+95.86	-6.23
ESR 96	-7881.799	-42890.789	2650.03	1578+97.24	143.09	TR-MAU	-13854.535	-29401.557	1985.46	1734+43.98	-85.51
ESR 97	-7960.334	-42142.440	2602.43	1586+06.33	14.03	CP1737+86	-13976.324	-29253.655	1983.75	1736+17.28	-3.83
ESR 97A	-7966.464	-41900.421	2585.15	1588+48.22	3.97	BRIDGE	-13524.020	-29000.543	1963.63	1737+51.42	-504.48
ESR 98	-7980.081	-41362.780	2548.84	1593+85.56	-18.39	ESR115	-12344.845	-28367.195	1894.06	1740+75.40	-1803.18
ESR 99	-7957.325	-40620.720	2511.15	1601+24.44	-90.71	CP1745+38	-14168.146	-28527.204	1944.99	1743+68.60	3.49
ESR 99A	-8101.609	-39879.348	2475.64	1608+69.62	-62.44	CP1748+00	-14229.252	-28271.976	1931.93	1746+31.02	-0.03
ESR 100	-8209.911	-39322.871	2454.69	1614+36.54	-61.81	CP1749+44	-14264.748	-28132.293	1923.93	1747+75.14	0.03
ESR 100A	-8370.333	-38494.550	2416.89	1622+80.25	-61.65	CP1751+00	-14303.040	-27981.243	1911.84	1749+30.97	0.01
ESR 101	-8504.922	-37799.599	2407.19	1629+88.12	-61.52	ESR16	-11929.077	-27363.238	1824.33	1749+46.31	-2453.03
ESR 101-A	-8640.138	-37159.213	2377.88	1636+42.53	-50.41	CP1752+89	-14348.435	-27797.530	1900.06	1751+20.20	-1.16
ESR 102	-8819.282	-36371.493	2347.40	1644+34.52	-111.25	CP1755+40	-14409.157	-27554.095	1883.74	1753+71.09	-2.15
ESR 102-A	-8971.328	-36103.222	2327.05	1647+40.36	-71.84	TR 11024	-14432.602	-27449.108	1886.62	1754+78.62	-5.24
ESR 103	-9225.637	-35654.492	2288.14	1652+51.91	-5.93	CP1756+78	-14442.338	-27420.113	1884.65	1755+09.12	-2.93
ESR 103-A	-9391.513	-35220.646	2250.81	1657+16.27	-16.27	TR 11005	-14483.878	-27255.862	1874.08	1756+78.54	-3.05
ESR 104	-9490.984	-34874.036	2245.81	1660+74.77	-55.14	CP1759+11	-14500.061	-27194.790	1871.33	1757+41.72	-2.38
ESR 104-A	-9637.848	-34524.616	2228.47	1664+52.10	-52.25	CP1761+51	-14557.714	-26961.744	1860.31	1759+81.79	-3.80
ESR 105	-9829.207	-34181.782	2210.42	1668+34.87	-55.37	CP1762+77	-14590.069	-26839.520	1854.63	1761+08.21	-2.49
ESR-106	-10382.535	-33752.963	2220.81	1675+29.02	30.56	CP1764+84	-14652.208	-26642.256	1836.88	1763+14.70	9.24
CP1688+73	-10837.710	-33397.168	2226.74	1681+03.73	-43.79	CP1766+10	-14683.029	-26519.484	1828.99	1764+41.28	8.93
ESR-107	-10823.728	-33366.531	2211.42	1681+06.93	-77.32	CP1770+54	-14784.352	-26087.719	1786.57	1768+84.71	0.98
ESR-108	-11476.634	-33089.436	2199.56	1688+10.94	8.96	PP26	-12505.341	-25350.765	1732.39	1770+38.69	-2389.26
109-o	-11541.669	-33058.556	2197.02	1688+82.70	14.71	CP1773+79	-14866.018	-25772.597	1775.45	1772+10.23	2.66
109-n	-11583.924	-33039.095	2195.11	1689+29.03	18.97	CP1777+09	-14947.994	-25452.680	1768.29	1775+40.48	3.47
109-m	-11631.876	-33016.187	2194.66	1689+82.01	23.09	CP1779+85	-15017.864	-25185.627	1773.86	1778+16.52	5.53
109-l	-11669.533	-32995.252	2194.81	1690+25.09	23.78	CP1781+29	-15050.635	-25045.683	1756.42	1779+60.22	2.89
109-k	-11724.199	-32963.256	2194.47	1690+88.43	23.39	CP1783+34	-15098.718	-24846.283	1741.09	1781+65.33	0.47
109-j	-11758.000	-32941.220	2192.85	1691+28.72	21.19	RESRD2	-15495.251	-24794.780	1772.31	1783+12.74	372.16
109-i	-11800.191	-32915.437	2190.21	1691+78.15	19.94	CP1785+00	-15138.812	-24685.507	1729.85	1783+31.02	-0.20
109-h	-11844.585	-32890.534	2188.15	1692+29.05	20.56	CP1786+48	-15175.593	-24541.669	1727.28	1784+79.49	0.09
109-g	-11883.576	-32867.625	2186.39	1692+74.27	20.20	CP1788+72	-15230.199	-24324.903	1720.16	1787+03.03	-0.28
109-f	-11930.853	-32837.504	2184.37	1693+30.27	17.74	RESRD	-15210.299	-24289.615	1720.20	1787+32.34	-28.25
109-e	-11976.091	-32810.897	2182.72	1693+82.75	17.30	CP1790+00	-15260.217	-24200.621	1717.46	1788+30.88	-1.74
109-d	-12016.792	-32785.657	2182.33	1694+30.62	15.78	CP1792+28	-15312.223	-23978.398	1716.88	1790+59.06	-5.97
109-c	-12048.763	-32767.438	2182.90	1694+67.42	15.97	CP1794+49	-15367.164	-23764.112	1703.78	1792+80.28	-5.40
109-a	-12103.697	-32734.017	2183.38	1695+31.58	14.59	CP1795+00	-15384.872	-23716.081	1701.65	1793+31.19	-0.05
ESR 109	-12137.987	-32709.271	2182.24	1695+73.55	10.90	CP1795+54	-15393.168	-23662.670	1705.35	1793+85.00	-5.14
CP1699+97	-12343.519	-32558.048	2193.00	1698+28.11	-2.18	CP1795+96	-15403.155	-23622.009	1700.69	1794+26.87	-5.45
ESR 110	-12358.852	-32381.542	2181.93	1699+48.35	-134.60	CP1796+01	-15402.774	-23616.556	1699.83	1794+32.06	-7.16
PKEASE	-12588.154	-31922.407	2162.21	1704+62.95	-321.06	CP1796+46	-15420.199	-23574.764	1694.53	1794+76.85	-0.55
CP1706+89	-12853.679	-32094.507	2179.19	1705+19.86	-9.28	ESR122	-13872.130	-23147.214	1608.37	1795+10.65	-1606.22
CP1708+35	-12957.289	-31991.057	2167.82	1706+66.10	1.03	CP1797+00	-15433.718	-23522.288	1701.25	1795+31.04	-0.35

SHADED SURVEY CONTROL POINTS TO BE RELOCATED PER ITEM NO. 15215-4500 - SURVEY AND STAKING, RELOCATE EXISTING CONTROL POINTS.

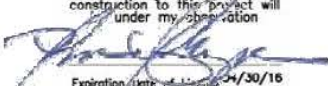
PROJECT UNITS: U.S. FEET

Relocated and new temporary project control points installed and surveyed. See project records for information.



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SURVEY CONTROL INFORMATION SHEET												STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
												HI	HI SR 200(3)	A5	A5
ID	NORTHING	EASTING	ELEVATION	STATION	OFFSET	ID	NORTHING	EASTING	ELEVATION	STATION	OFFSET	SHADED SURVEY CONTROL POINTS TO BE RELOCATED PER ITEM NO. 15215-4500 - SURVEY AND STAKING, RELOCATE EXISTING CONTROL POINTS.			
CP1797+54	-15444.541	-23469.312	1704.24	1795+85.06	-2.88	TR 7029	-13251.722	-19078.523	1334.74	1850+37.69	-0.43				
CP1798+00	-15458.365	-23425.566	1704.58	1796+30.86	-0.24	TR 7024	-13165.579	-18936.427	1329.59	1852+03.77	20.35				
CP1798+23	-15459.950	-23402.702	1703.34	1796+53.41	-4.32	TR 7027	-13102.322	-18877.909	1332.31	1852+88.08	-0.04				
CP1798+50	-15466.276	-23376.309	1704.27	1796+80.55	-4.68	CP1856+50	-13091.302	-18828.128	1330.80	1853+36.70	16.14				
CP1840+66	-15543.373	-23071.629	1698.65	1799+94.83	-4.86	TR 7023	-13052.589	-18792.425	1329.96	1853+86.99	-0.36				
CP1804+00	-15605.955	-22843.753	1680.54	1802+31.06	1.55	TR 7019	-13038.793	-18753.007	1327.89	1854+28.42	5.45	PROJECT UNITS: U.S. FEET			
CP1804+60	-15621.756	-22785.624	1676.32	1802+91.11	5.33	CP1857+00A	-13008.513	-18701.834	1326.97	1854+87.74	-0.02				
CP1805+00	-15630.124	-22746.835	1673.65	1803+30.70	6.42	CP1857+00	-12984.714	-18660.526	1325.55	1855+35.00	-5.56				
CP1805+49	-15643.410	-22699.727	1668.63	1803+79.22	11.56	TR 7004	-12935.411	-18576.639	1321.94	1856+29.97	-22.34				
CP1806+62	-15664.994	-22588.570	1664.43	1804+91.75	17.27	TR 7611	-12933.745	-18559.558	1320.92	1856+46.48	-18.54				
CP1807+00	-15669.420	-22550.873	1661.94	1805+29.47	17.34	CC4	-12855.117	-18291.677	1299.93	1859+20.43	-36.23				
CP1807+58	-15691.235	-22494.722	1658.87	1805+86.98	33.54										
CP1808+00	-15682.593	-22451.549	1653.00	1806+28.91	21.44										
CP1808+54	-15691.225	-22398.044	1644.97	1806+82.41	26.62										
CP1809+00	-15692.922	-22352.124	1635.42	1807+27.94	26.17										
CP1809+54	-15690.239	-22298.009	1628.63	1807+81.50	21.90										
CP1810+00	-15698.566	-22252.412	1622.47	1808+26.78	29.68										
CP1810+52	-15694.413	-22199.934	1613.85	1808+78.78	25.79										
CP1811+00	-15701.169	-22152.302	1612.03	1809+25.76	33.62										
CP1811+46	-15703.773	-22105.356	1609.51	1809+71.99	38.04										
CP1813+20	-15710.969	-21931.071	1604.36	1811+42.34	58.59										
PAR7	-15563.267	-21798.109	1587.91	1812+94.08	-70.18										
tr 2121	-15519.648	-21438.858	1546.79	1816+60.91	-32.74										
tr 2117	-15473.975	-21362.087	1541.17	1817+49.17	-53.34										
BASELINE	-15508.529	-21208.652	1539.97	1818+82.59	30.83										
CP1821+12	-15382.270	-21216.528	1532.99	1819+21.69	-89.62										
PAR22	-15174.858	-21215.123	1530.75	1820+08.51	-280.51										
MINERALSHED	-14824.664	-20165.937	1457.00	1831+24.96	35.76										
CP1838+00	-14443.988	-19895.705	1441.74	1835+88.02	3.04										
CP1839+00	-14362.496	-19842.008	1439.27	1836+85.52	2.42										
CP1840+00	-14277.036	-19784.796	1439.08	1837+88.29	5.30										
CP1846+50	-14222.128	-19749.742	1434.35	1838+53.43	5.84										
CP1843+00	-14020.554	-19630.369	1410.22	1840+87.62	-0.08										
CP1845+00	-13851.096	-19524.593	1395.57	1842+87.38	-0.47										
CP1801+64	-13720.613	-19449.596	1383.17	1844+37.77	-6.23										
CC2	-12931.704	-20346.794	1439.08	1846+23.81	-1185.47										
CP1849+96	-13436.003	-19252.332	1352.33	1847+84.08	0.26										
CP1850+99	-13357.127	-19184.926	1347.87	1848+87.87	0.14										
CP1851+50	-13325.949	-19147.691	1342.11	1849+36.22	5.67										
The sea level correction factor is the radius of the earth (20,960,000 feet) divided by (20,960,000 + elevation of point). Coordinates based on local triangulation station Halai.												BRUCE K. MEYERS Licensed Professional Engineer No. 8336-C HAWAII, U.S.A. This work was prepared by me or under my supervision and construction to this project will under my observation  Expiration Date of License: 04/30/16			