

HALONA STREET BRIDGE REPLACEMENT
BENCHMARK INFORMATION
PROVIDED BY PAREN, INC. (RA)
11-MAR-16

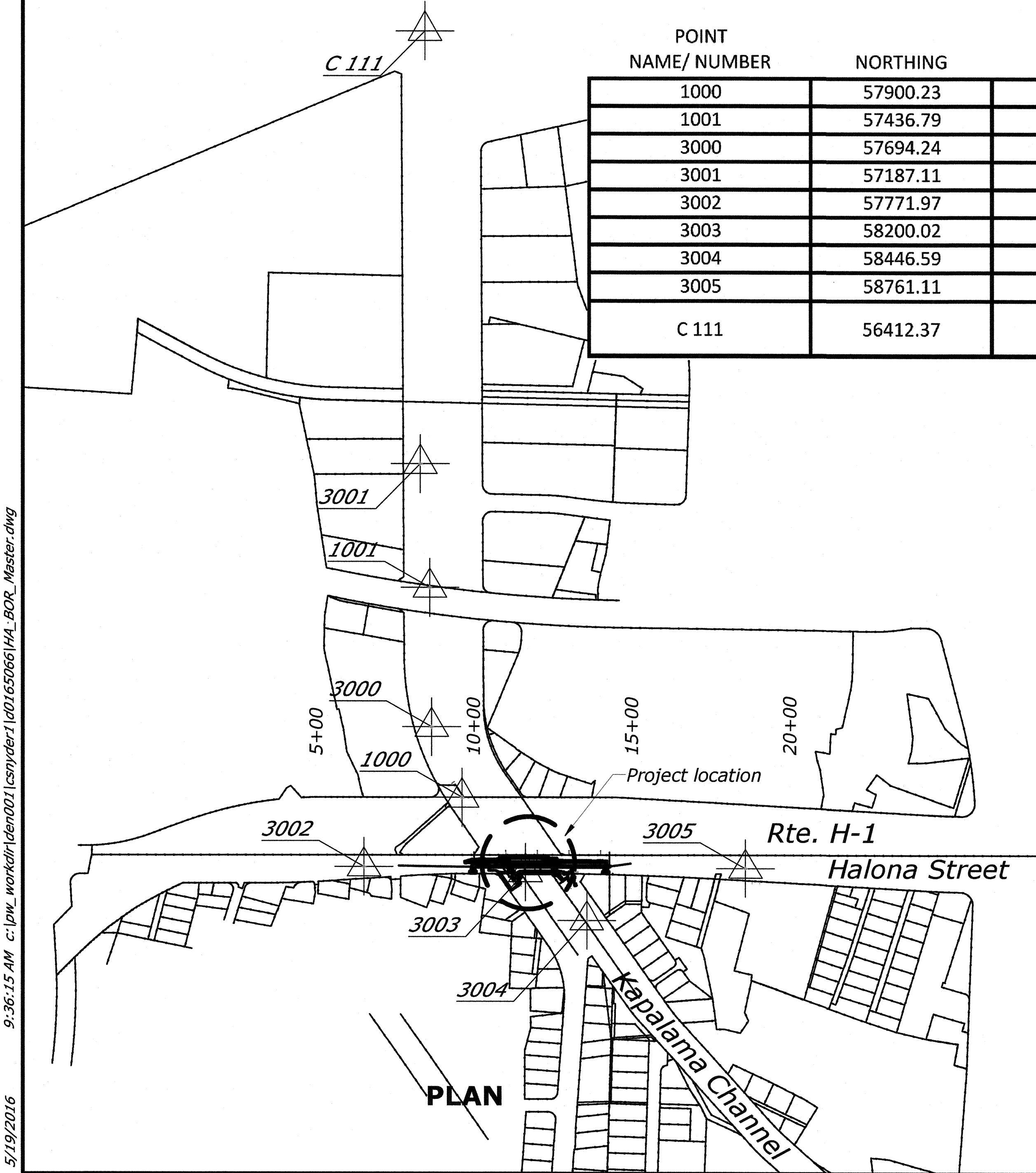
STATE	PROJECT	SHEET NO.
HI	HI STP H1(1)	A4

PROJECT : CFLHD BRIDGE REPLACEMENT, HALONA STREET BRIDGE, ISLAND OF OAHU, HAWAII

DATE OF FIELD WORK: 15 SEPTEMBER 2014
DATE OF FINAL ADJUSTMENT: 17 NOVEMBER 2014
STATION OFFSET BASED ON ALIGNMENT: N/A

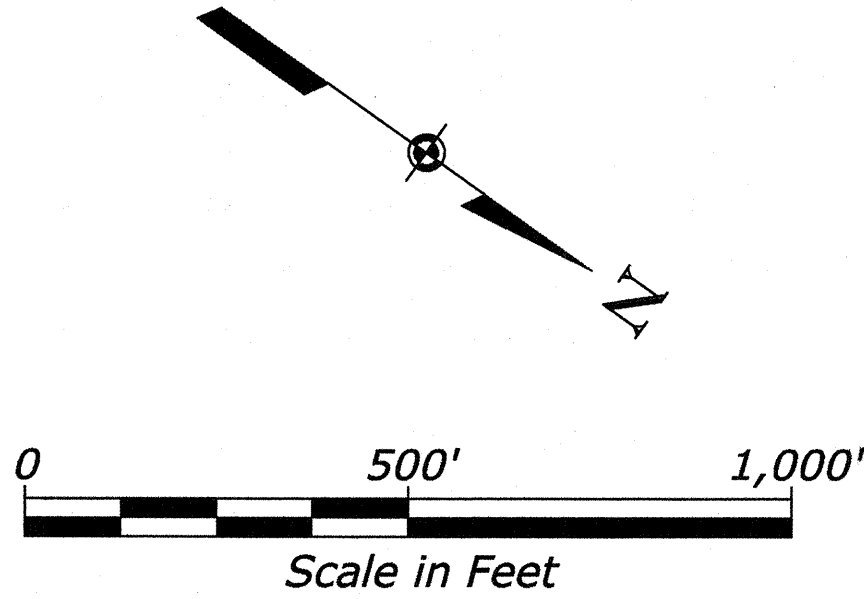
PROJECT UNITS: US SURVEY FOOT
COORDINATE SYSTEM: HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 3 (NAD 83)
VERTICAL DATUM: LOCAL MEAN SEA LEVEL
PROJECT BENCHMARK: NATIONAL GEODETIC SURVEY C 111 (PID AA6426)

POINT NAME/ NUMBER	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	MAPPING ANGLE	COMBINED FACTOR	DESCRIPTION
1000	57900.23	1685519.04	11.22	21°19'33.63230"N	157°52'02.95081"W	62.55	0°02'53"	0.99998934	BRASS DISC
1001	57436.79	1685037.71	11.00	21°19'29.04352"N	157°52'08.04598"W	62.27	0°02'52"	0.99998930	BRASS DISC
3000	57694.24	1685392.90	7.43	21°19'31.59197"N	157°52'04.28684"W	58.74	0°02'53"	0.99998951	PIPE W/ CAP
3001	57187.11	1684735.76	6.45	21°19'26.57154"N	157°52'11.24182"W	57.69	0°02'50"	0.99998949	PIPE
3002	57771.97	1685874.94	12.14	21°19'32.35824"N	157°51'59.18768"W	63.48	0°02'55"	0.99998933	PIPE W/ CAP
3003	58200.02	1685595.72	9.80	21°19'36.60274"N	157°52'02.13711"W	61.16	0°02'54"	0.99998941	"+" CUT
3004	58446.59	1685609.15	9.37	21°19'39.04626"N	157°52'01.99291"W	60.75	0°02'54"	0.99998943	PIPE W/ CAP
3005	58761.11	1685184.72	15.89	21°19'42.16677"N	157°52'06.47931"W	67.27	0°02'52"	0.99998908	"+" CUT
C 111	56412.37	1683612.12	8.02	21° 19' 18.90263" N	157° 52' 23.13306" W	60.71	0° 02' 46"	0.99998924	ROUND TOPPED IRON PIN



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Wayne M. Teruya
ParEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4/30/2018



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY

SURVEY CONTROL