

12/4/2014 11:15:36 AM W:\\_Civil\3D Projects\2014\_027.001 ATKINS Saddle Road West Side Truck Escape Ramps\Roadway\Sheets\A-Gen\_sht\HI SR 20000\_CONTROL.dgn

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(8)	A5	A9

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(6)	A5	A18

PROJECT: HI-A-AD 6(6) - SADDLE ROAD

DATE OF FIELD WORK: SEPTEMBER 2010  
DATE OF FINAL ADJUSTMENT: SEPTEMBER 2010

PROJECT UNITS: FEET US  
COORDINATE SYSTEM: LAMBERT NAD83, HAWAII ZONE 5101  
BASED ON CORS STATIONS PAH6 & UP05  
EPOCH:2002.0000, DATED SEPTEMBER 30, 2010

VERTICAL DATUM: SEA LEVEL (GPS ELEVATIONS BASED ON ELEVATIONS AT STATIONS PARK, SR83 & OMAOKOILI)  
ALL COORDINATES ARE IN US SURVEY FEET

STATE PLANE COORDINATES				NAD 83						
POINT NAME	NORTH	EAST	ELEVATION	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT	MAPPING ANGLE	COMBINED FACTOR	DESCRIPTION	
OMAOKOILI	319066.288	1641784.899	7089.75	19°42'42.89130"N	155°29'45.67873"W	7182.05	0°00' 04.8"	0.99962273	DRILL HOLE & TRIANGLE CUT IN LAVA	
PARK	332467.148	1630968.689	6485.52	19°44'55.71938"N	155°31'38.91458"W	6577.477	-0° 00' 33.4"	0.99965178	ALUMINUM CAP STAMPED PARK	
PUU PA	420060.367	1570331.659	2667.774	19°59'23.55478"N	155°42'14.85614"W	2742.087	-0° 04' 11.2"	0.99984097	USGS UNSTAMPED DISK	
SR83	344166.916	1602076.474	5605.86	19°46'51.57484"N	155°36'41.47887"W	5694.633	-0° 02' 15.8"	0.99969564	ALUMINUM CAP STAMPED SR-83	
PUU HINAI	388125.576	1544952.466	1442.352	19°54'06.65194"N	155°46'40.40631"W	1515.674	-0° 05' 40.5"	0.99990458	CENTER OF A 2.5" IRON PIPE	
KEAMUKU	361162.363	1560432.012	3076.418	19°49'39.61917"N	155°43'57.80127"W	3154.512	-0° 04' 44.2"	0.99982295	CENTER OF A 2.5" IRON PIPE	
NOHONAOHAE	394526.538	1577290.544	3251.587	19°55'10.53921"N	155°41'01.59798"W	3328.979	-0° 03' 45.4"	0.99981181	CENTER OF A 2.5" IRON PIPE	
PAH6	248812.251	1825696.351	598.333	19°31'03.61097"N	154°57'43.02958"W	650.456	0°10' 47.2"	0.99997491	GPS CORS	
UP05	513149.316	1508858.686	198.932	20°14'45.16685"N	155°53'01.65376"W	256.315	-0°07' 58.1"	0.99997425	GPS CORS	

NOTE: TO PRECISELY CHECK DISTANCES BETWEEN POINTS AS MEASURED ON THE GROUND:-  
-INVERSE THE STATE PLANE COORDINATES AND DIVIDE THE COMPUTED DISTANCE BY A MEAN OF THE COMBINED FACTOR OF THE TWO POINTS.  
  
-TO COMPUTE GEODETIC AZIMUTHS USE THE FOLLOWING FORMULA:  
-GEODETIC AZIMUTH = GRID AZIMUTH + MAPPING ANGLE

PROJECT: HI-A-AD 6(6) - SADDLE ROAD

DATE OF FIELD WORK: SEPTEMBER 2010  
DATE OF FINAL ADJUSTMENT: JANUARY 2012

PROJECT UNITS: FEET US  
COORDINATE SYSTEM: PROJECT COORDINATES

VERTICAL DATUM: PROJECT ELEVATIONS (SEA LEVEL)  
ALL COORDINATES ARE IN US SURVEY FEET

POINT NAME	NORTH	EAST	ELEVATION	DESCRIPTION
OMAOKOILI	0	0	7089.75	DRILL HOLE & TRIANGLE CUT IN LAVA
PARK	13401.31	-10814.93	6485.52	ALUMINUM CAP STAMPED PARK
PUU PA	100998.0007	-71443.5875	2667.774	USGS UNSTAMPED DISK
SR83	25103.271	-39705.6537	5605.86	ALUMINUM CAP STAMPED SR-83
PUU HINAI	69065.8933	-96824.9811	1442.352	CENTER OF A 2.5" IRON PIPE
KEAMUKU	42101.8766	-81347.9552	3076.418	CENTER OF A 2.5" IRON PIPE
NOHONAOHAE	75464.051	-64486.9508	3251.587	CENTER OF A 2.5" IRON PIPE

NOTE: COORDINATES REFERRED TO GOVERNMENT SURVEY TRIANGULATION STATION "OMAOKOILI"  
COORDINATES AND ELEVATIONS BASED ON "HI A-AD 6(5)"  
ELEVATIONS ARE GPS DERIVED



THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION  
*Dan L. M. Akita*  
Licensed Professional Surveyor

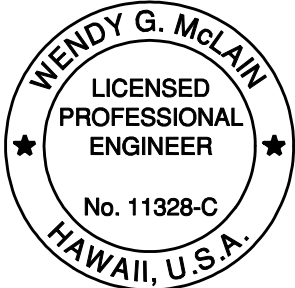
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SURVEY CONTROL

SHEET 1 of 1

REVISED: JANUARY 25, 2012

AMENDMENT A003  
1/25/12 Revise survey



THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION.  
*Wendy G. McLain*  
SIGNATURE  
4/30/2016  
EXPIRATION DATE  
OF THE LICENSE

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

SURVEY CONTROL

SHEET 1 of 1

NOTE: The embedded survey control sheet above is from the original roadway project for Saddle Road - West Side HI A-AD 6(6).