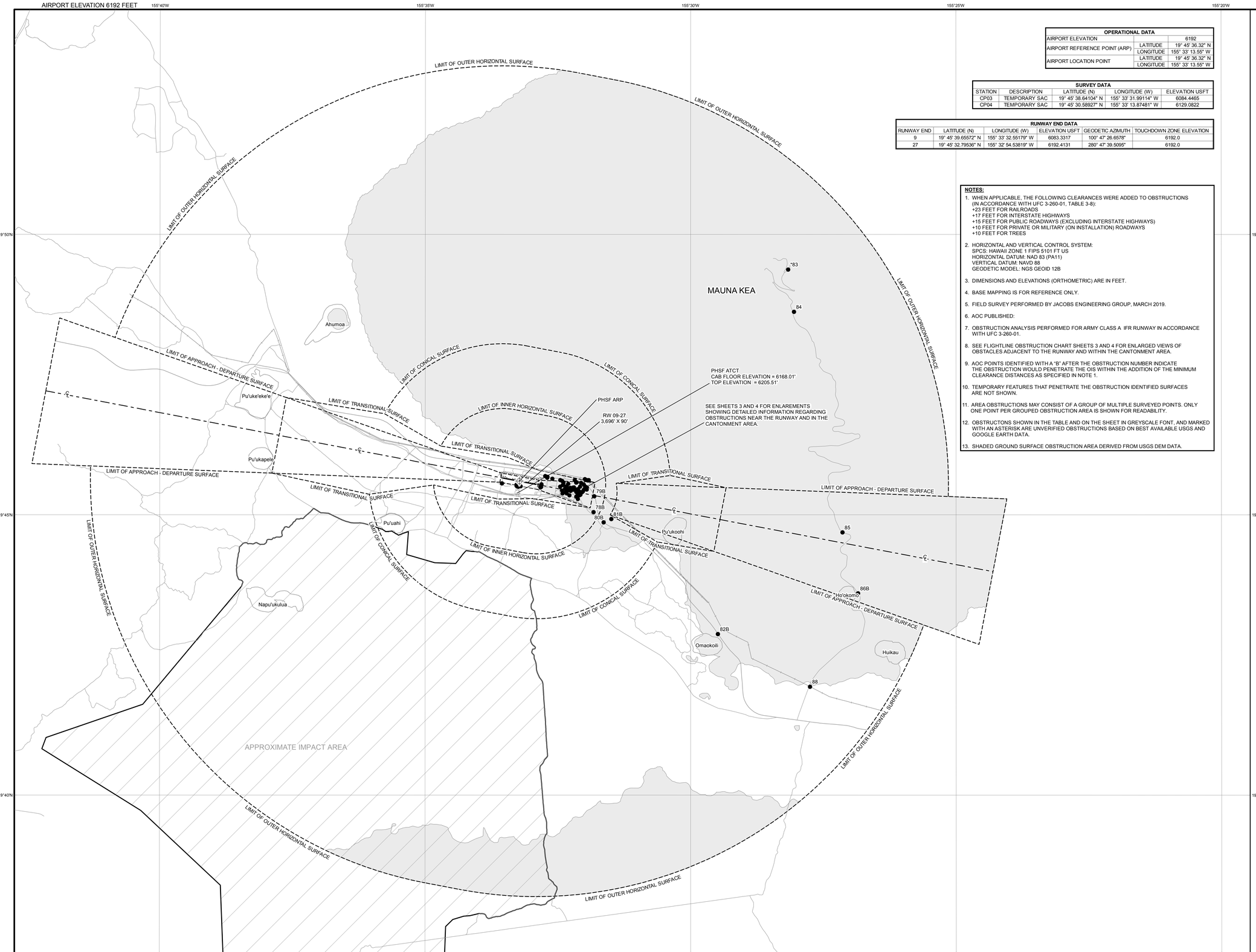
AIRPORT ELEVATION 6192 FEET



OPERATIONAL DATA		
AIRPORT ELEVATION		6192
AIRPORT REFERENCE POINT (ARP)	LATITUDE	19° 45' 36.32" N
	LONGITUDE	155° 33' 13.55" W
AIRPORT LOCATION POINT	LATITUDE	19° 45' 36.32" N
	LONGITUDE	155° 33' 13.55" W

SURVEY DATA				
STATION	DESCRIPTION	LATITUDE (N)	LONGITUDE (W)	ELEVATION USFT
CP03	TEMPORARY SAC	19° 45' 38.64104" N	155° 33' 31.99114" W	6084.4465
CP04	TEMPORARY SAC	19° 45' 30.58927" N	155° 33' 13.87481" W	6129.0822

RUNWAY END DATA					
RUNWAY END	LATITUDE (N)	LONGITUDE (W)	ELEVATION USFT	GEODETIC AZIMUTH	TOUCHDOWN ZONE ELEVATION
9	19° 45' 39.65572" N	155° 33' 32.55179" W	6083.3317	100° 47' 26.6578"	6192.0
27	19° 45' 32.79536" N	155° 32' 54.53819" W	6192.4131	280° 47' 39.5095"	6192.0

NOTES:

1. WHEN APPLICABLE, THE FOLLOWING CLEARANCES WERE ADDED TO OBSTRUCTIONS (IN ACCORDANCE WITH UFC 3-260-01, TABLE 3-8):
   +23 FEET FOR RAILROADS
   +17 FEET FOR INTERSTATE HIGHWAYS
   +15 FEET FOR PUBLIC ROADWAYS (EXCLUDING INTERSTATE HIGHWAYS)
   +10 FEET FOR PRIVATE OR MILITARY (ON INSTALLATION) ROADWAYS
   +10 FEET FOR TREES
2. HORIZONTAL AND VERTICAL CONTROL SYSTEM:
   SPCS: HAWAII ZONE 1 FIPS 5101 FT US
   HORIZONTAL DATUM: NAD 83 (PA11)
   VERTICAL DATUM: NAVD 88
   GEODETIC MODEL: NGS GEOID 12B
3. DIMENSIONS AND ELEVATIONS (ORTHOMETRIC) ARE IN FEET.
4. BASE MAPPING IS FOR REFERENCE ONLY.
5. FIELD SURVEY PERFORMED BY JACOBS ENGINEERING GROUP, MARCH 2019.
6. AOC PUBLISHED:
7. OBSTRUCTION ANALYSIS PERFORMED FOR ARMY CLASS A IFR RUNWAY IN ACCORDANCE WITH UFC 3-260-01.
8. SEE FLIGHTLINE OBSTRUCTION CHART SHEETS 3 AND 4 FOR ENLARGED VIEWS OF OBSTACLES ADJACENT TO THE RUNWAY AND WITHIN THE CANTONMENT AREA.
9. AOC POINTS IDENTIFIED WITH A "B" AFTER THE OBSTRUCTION NUMBER INDICATE THE OBSTRUCTION WOULD PENETRATE THE OIS WITHIN THE ADDITION OF THE MINIMUM CLEARANCE DISTANCES AS SPECIFIED IN NOTE 1.
10. TEMPORARY FEATURES THAT PENETRATE THE OBSTRUCTION IDENTIFIED SURFACES ARE NOT SHOWN.
11. AREA OBSTRUCTIONS MAY CONSIST OF A GROUP OF MULTIPLE SURVEYED POINTS. ONLY ONE POINT PER GROUPED OBSTRUCTION AREA IS SHOWN FOR READABILITY.
12. OBSTRUCTONS SHOWN IN THE TABLE AND ON THE SHEET IN GREYSCALE FONT, AND MARKED WITH AN ASTERISK ARE UNVERIFIED OBSTRUCTIONS BASED ON BEST AVAILABLE USGS AND GOOGLE EARTH DATA.
13. SHADED GROUND SURFACE OBSTRUCTION AREA DERIVED FROM USGS DEM DATA.

OBSTRUCTION DATA			
NUMBER	OBJECT	ELEVATION	PENETRATION
1B	TREE	6102.6	5.2
2B	TREE	6099.7	2.1
3	HANGER STORAGE	6140.0	11.2
4	POLE	6150.6	12.2
5	POLE	6152.2	7.6
6	POLE	6156.0	18.4
7	POLE LIGHT	6155.4	2.9
8	POLE LIGHT	6159.4	21.2
9	POLE	6141.8	4.4
10	BUILDING BASE OPS WITH ANTENNA	6159.9	21.8
11	POLE	6160.3	21.9
12	BUILDING OPS TRAILER	6142.1	2.4
13	POLE	6163.7	18.2
14	SIGN YIELD	6214.0	14.0
15B	TREE	6230.4	30.3
16	GROUND	6220.1	18.5
17	GROUND AT 8 FT PERIMETER FENCE	6277.3	19.7
18B	PUBLIC ROAD ASPHALT EDGE HIGHWAY 200	6301.1	30.5
19	GROUND AT 8 FT PERIMETER FENCE	6302.7	44.1
20B	PUBLIC ROAD	6291.2	15.2
21	GROUND	6312.9	60.8
22	GROUND	6328.3	64.0
23	GROUND	6322.9	63.8
24	GROUND AT 8 FT PERIMETER FENCE	6321.9	65.7
25	GROUND	6319.5	57.8
26B	PRIVATE/MILITARY ROAD CENTER	6324.7	66.4
27	GROUND AT 8 FT PERIMETER FENCE	6326.4	67.5
28	GROUND AT 8 FT PERIMETER FENCE	6329.1	69.9
29B	PRIVATE/MILITARY ROAD CENTER	6218.2	16.5
30	BUILDING LUMBER YARD T-17	6341.4	75.0
31B	TREE	6408.1	140.3
32	BUILDING SUPER GYM X-5	6356.4	86.5
33	BUILDING	6340.6	71.7
34	BUILDING VACANT	6344.1	71.2
35	BUILDING LOGISTICS READINESS CENTER T-25	6360.7	87.3
36	ROOF SHOP	6368.3	96.2
37B	TREE	6432.3	154.5
38B	TREE	6418.7	137.4
39	POLE POWER	6381.8	102.7
40B	TREE	6392.6	110.7
41	BUILDING BARRACKS	6359.8	73.3
42	BUILDING DEPOT P-81	6381.3	93.1
43	BUILDING	6368.2	80.1
44	GROUND	6392.4	103.2
45B	PUBLIC ROAD ASPHALT EDGE HIGHWAY 200	6403.2	92.1
46	GROUND	6480.6	188.3
47	GROUND	6396.0	96.2
48	POLE POWER	6408.9	111.2
49	BUILDING USO 95	6390.9	92.8
50	TOWER CELL	6501.6	208.0
51	BUILDING THEATER	6387.4	88.9
52	BUILDING	6377.5	76.9
53	POLE	6438.1	135.2
54B	PUBLIC ROAD CENTER	6402.9	97.8
55	POLE PA HORN	6417.5	117.1
56	POLE	6442.5	139.1
57	BUILDING RANGE CONTROL	6403.8	100.1
58	BUILDING T-93	6392.9	90.4
59	TOWER CELL	6442.0	134.7
60	BUILDING BARRACKS	6391.2	86.2
61	BUILDING LAUNDRY	6389.0	81.4
62	POLE FLAG	6421.9	113.0
63	POLE POWER	6418.8	109.4
64	POLE LIGHT	6415.3	105.5
65	BUILDING	6413.1	107.3
66	BUILDING NATURAL RESOURCES 226	6397.7	84.6
67	BUILDING CULTURAL RESOURCES 227 A,B,C	6399.2	84.3
68	BUILDING	6408.6	94.8
69	BUILDING GREENHOUSE	6407.6	90.8
70	TANK	6547.3	204.8
71	POLE	6433.4	114.4
72	BUILDING SHOWER POINT T-121	6414.8	95.1
73	TANK	6547.5	205.1
74B	PRIVATE/MILITARY ROAD CENTER	6415.4	94.3
75	POLE	6450.7	126.5
76	TANK	6551.2	208.8
77	POLE	6445.5	122.0
78B	PUBLIC ROAD CENTER	6466.4	124.0
79B	PUBLIC ROAD ASPHALT	6455.3	112.9
80B	PUBLIC ROAD ASPHALT	6504.6	119.1
81B	PUBLIC ROAD CENTER	6534.3	120.0
82B	PUBLIC ROAD ASPHALT	6767.3	74.9
*83	MAUNA KEA TOP OF OBSERVATORY	13843.0	7150.6
84	GROUND APPROXIMATE SUMMIT	12819.0	6126.5
85	GROUND	8510.0	1817.6
86B	PUBLIC ROAD ASPHALT	7630.2	937.8
*87	POLE POWER	6593.0	250.6
88	POLE POWER	6739.3	46.8

LEGEND

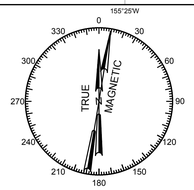
- OBSTRUCTION
- REQUIRED NAVAID OR REFERENCE OBJECT (NOT AN OBSTRUCTION)
- RUNWAY END
- AIRPORT REFERENCE POINT
- ROADS
- SURVEYED GROUND OBSTRUCTION AREA
- APPROXIMATE IMPACT AREA
- GROUND SURFACE OBSTRUCTION AREA (SEE NOTE 13)
- POWERLINES

4,000 0 4,000 8,000 FEET

1,200 0 1,200 2,400 METERS

1 0 1 2 STATUTE MILES

1 0 1 2 NAUTICAL MILES



MAGNETIC DECLINATION: 9º 27.00' E (MARCH 3, 2019)
ANNUAL CHANGE: (MINUTES/YEAR) 1'/YEAR WEST

SUBMITTED TO:
US Army Corps of Engineers®
U.S. ARMY CORPS OF ENGINEERS
1616 CAPITOL AVENUE, SUITE 9000
OMAHA, NE 68102
(402) 995-2747

PLOT SCALE: AS SHOWN | PLOT DATE: 04/23/2019 | SHEET SIZE: 30" X 42"

CONTRACT NO: W9128F-18-D-0031

FILE NAME: 1_PHSF_AIRSPACE_AND_OBSTRUCTIONS.MXD

BRADSHAW AAF (PHSF)
POHAKULOA TRAINING AREA, HI

SUBMITTED BY:
JACOBS
400 INDUSTRY DRIVE
SUITE 100
PITTSBURGH, PA 15275
(412) 249-6495

APPROVED BY:

DATE APPROVED:

AIRSPACE PLAN AND OBSTRUCTION TABLE

SURVEYED:	BOW
DRAWN:	DLL
CHECKED:	BFF
APPROVED:	MPB
DATE:	04/23/2019

SHEET IDENTIFICATION
1 OF 4

AOC EDITION:
FIRST EDITION

AIRPORT ELEVATION 6192 FEET

RUNWAY END DATA					
RUNWAY END	LATITUDE (N)	LONGITUDE (W)	ELEVATION USFT	GEODETIC AZIMUTH	TOUCHDOWN ZONE ELEVATION
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AIRPORT LOCATION POINT	LATITUDE	19° 45' 36.32" N
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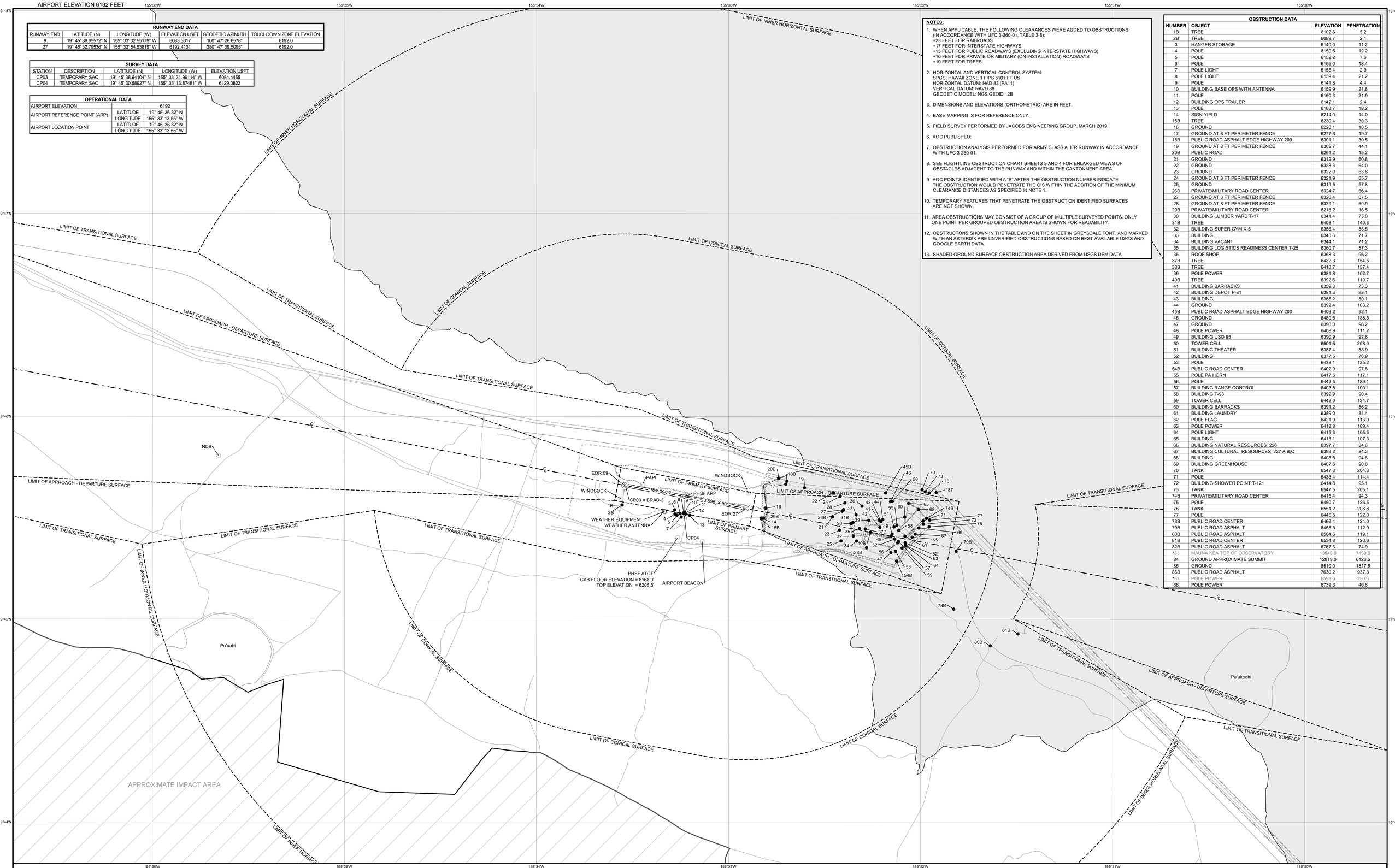

NOTES:

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6. AOC PUBLISHED:
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35	BUILDING LOGISTICS READINESS CENTER T-25	6360.7	87.3
36	ROOF SHOP	6368.3	96.2
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38B	TREE	6418.7	137.4
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45B	PUBLIC ROAD ASPHALT EDGE HIGHWAY 200	6403.2	92.1
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76	TANK	6551.2	208.8
77	POLE	6445.5	122.0
78B	PUBLIC ROAD CENTER	6466.4	124.0
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86B	PUBLIC ROAD ASPHALT	7630.2	937.8
*87	POLE POWER	6593.0	250.6
88	POLE POWER	6739.3	46.8

LEGEND

- OBSTRUCTION
- AIRPORT REFERENCE POINT
- RUNWAY END
- REQUIRED NAVAID OR REFERENCE OBJECT (NOT AN OBSTRUCTION)
- ROADS
- APPROXIMATE IMPACT AREA
- OBSTRUCTION AREA BASED ON SURVEY OR BEST AVAILABLE DATA
- GROUND SURFACE OBSTRUCTION AREA (SEE NOTE 13)
- EXISTING FENCE
- POWERLINES

1,000 0 1,000 2,000 FEET

300 0 300 600 METERS

½ 0 ½ 1 STATUTE MILES

½ 0 ½ 1 NAUTICAL MILES

MAGNETIC DECLINATION: 9° 27.00' E (MARCH 3, 2019)
ANNUAL CHANGE: (MINUTES/YEAR) 1'/YEAR WEST

SUBMITTED TO:
US Army Corps of Engineers®
U.S. ARMY CORPS OF ENGINEERS
1616 CAPITOL AVENUE, SUITE 9000
OMAHA, NE 68102
(402) 995-2747

PLOT SCALE:	PLOT DATE:	SHEET SIZE:
AS SHOWN	04/23/2019	30" X 42"

CONTRACT NO: W9128F-18-D-0031

FILE NAME: 2_PHSF_AOC_PLAN.MXD

BRADSHAW AAF (PHSF)
POHAKULOA TRAINING AREA, HI

SUBMITTED BY:
JACOBS
400 INDUSTRY DRIVE
SUITE 100
PITTSBURGH, PA 15275
(412) 249-6495

APPROVED BY:

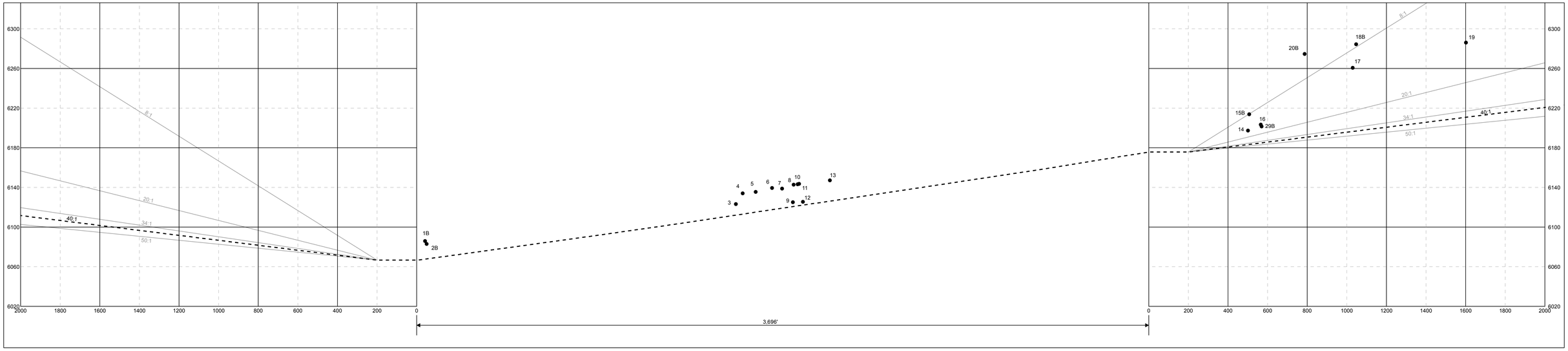
DATE APPROVED:

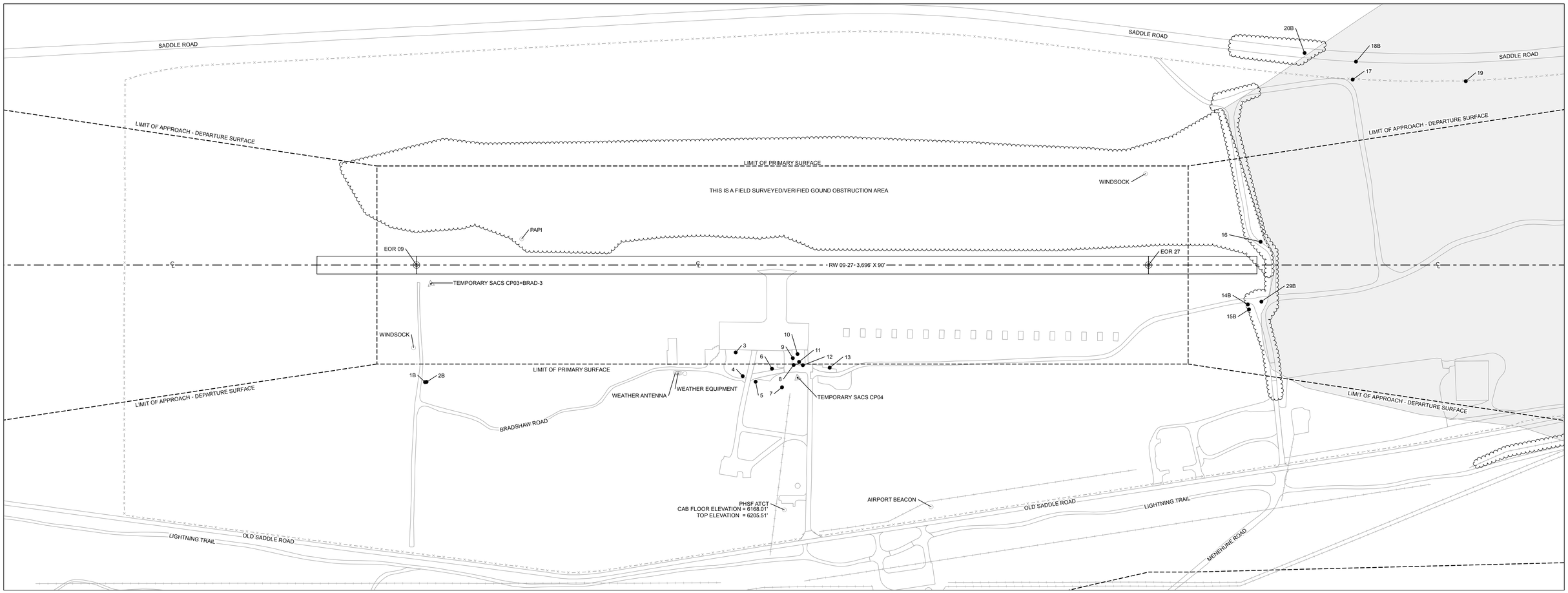
AIRPORT PLAN

SURVEYED:	BOW
DRAWN:	DDL
CHECKED:	KDG
APPROVED:	MPB
DATE:	04/23/2019

SHEET IDENTIFICATION
2 OF 4

AOC EDITION:
FIRST EDITION





LEGEND

- OBSTRUCTION
- AIRPORT REFERENCE POINT
- RUNWAY END
- REQUIRED NAVAID OR REFERENCE OBJECT (NOT AN OBSTRUCTION)
- AIRPORT CONTROL POINT
- USGS DEM GROUND SURFACE OBSTRUCTION AREA
- OBSTRUCTION AREA BASED ON SURVEY OR BEST AVAILABLE DATA
- REFERENCE ONLY BASE MAPPING DIGITIZED AND/OR ITAM DATA
- EXISTING FENCE

NOTES:

1. WHEN APPLICABLE, THE FOLLOWING CLEARANCES WERE ADDED TO OBSTRUCTIONS (IN ACCORDANCE WITH UFC 3-260-01, TABLE 3-8):
   +23 FEET FOR RAILROADS
   +17 FEET FOR INTERSTATE HIGHWAYS
   +15 FEET FOR PUBLIC ROADWAYS (EXCLUDING INTERSTATE HIGHWAYS)
   +10 FEET FOR PRIVATE OR MILITARY (ON INSTALLATION) ROADWAYS
   +10 FEET FOR TREES
2. HORIZONTAL AND VERTICAL CONTROL SYSTEM:
   SPCS: HAWAII ZONE 1 FIPS 5101 FT US
   HORIZONTAL DATUM: NAD 83 (PA11)
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   GEODETIC MODEL: NGS GEOID 12B
3. DIMENSIONS AND ELEVATIONS (ORTHOMETRIC) ARE IN FEET.
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5. FIELD SURVEY PERFORMED BY JACOBS ENGINEERING GROUP, MARCH 2019.
6. AOC PUBLISHED:
7. OBSTRUCTION ANALYSIS PERFORMED FOR ARMY CLASS A IFR RUNWAY IN ACCORDANCE WITH UFC 3-260-01.
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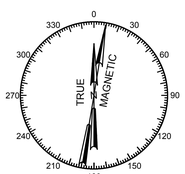


MAGNETIC DECLINATION: 9° 27.00' E (MARCH 3, 2019)
ANNUAL CHANGE: (MINUTES/YEAR) 1'/YEAR WEST

200 0 200 400 FEET

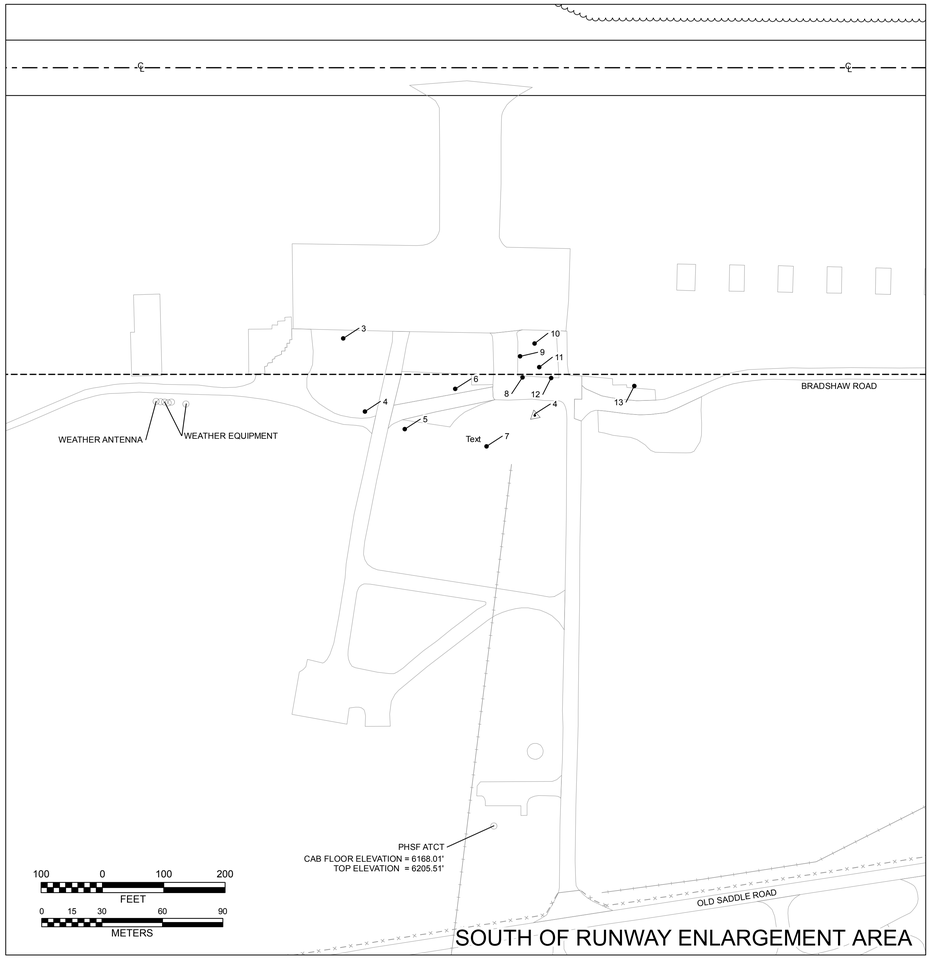
60 0 60 120 METERS

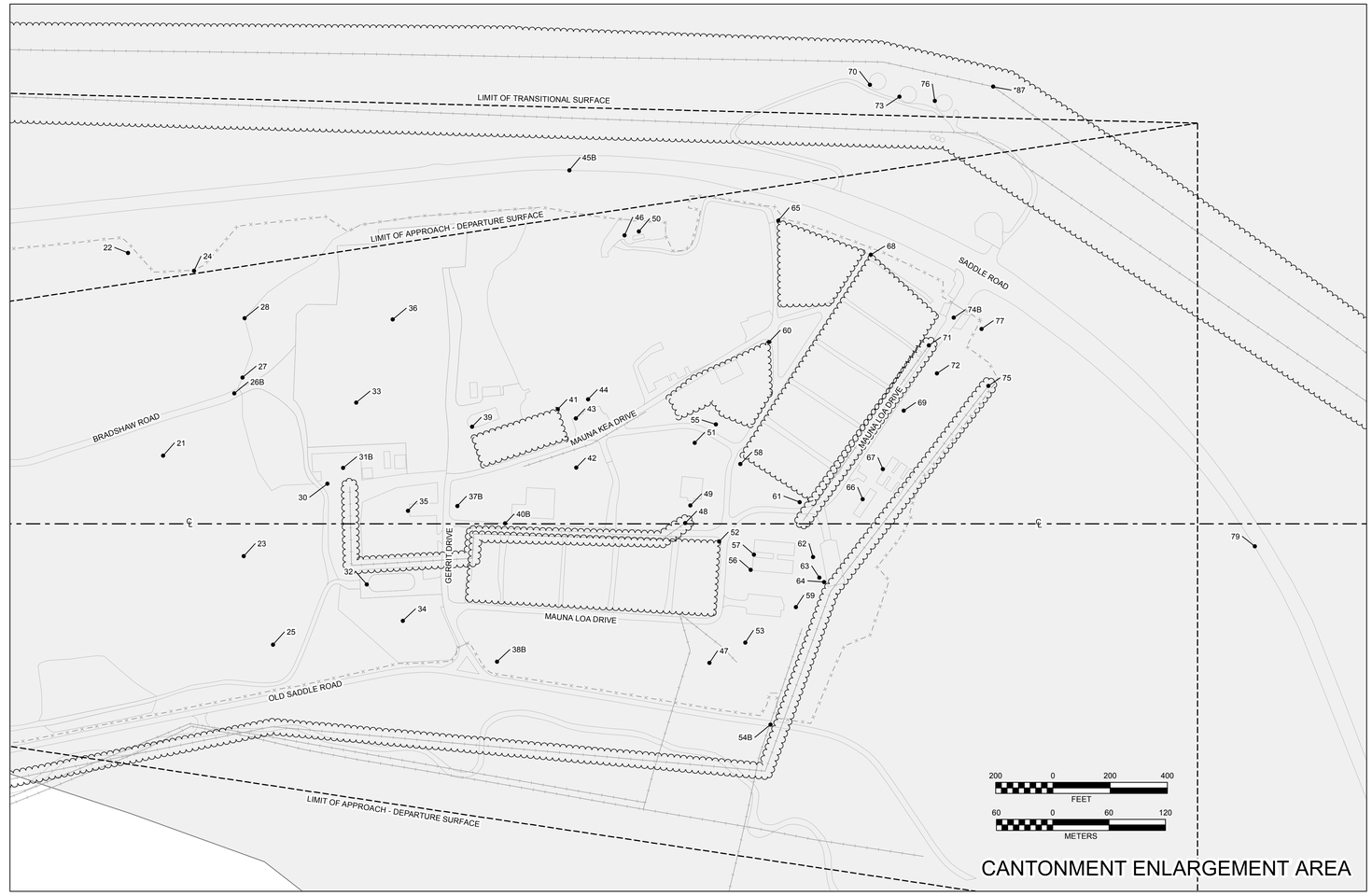
SUBMITTED TO: US Army Corps of Engineers — U.S. ARMY CORPS OF ENGINEERS, 1616 CAPITOL AVENUE, SUITE 9000, OMAHA, NE 68102, (402) 995-2747	PLOT SCALE: AS SHOWN	PLOT DATE: 04/23/2019	SHEET SIZE: 30" X 42"
	CONTRACT NO: W9128F-18-D-0031	04/12/2019	
	FILE NAME: 3_PHSF_AOC_PLAN_AND_PROFILE.MXD		

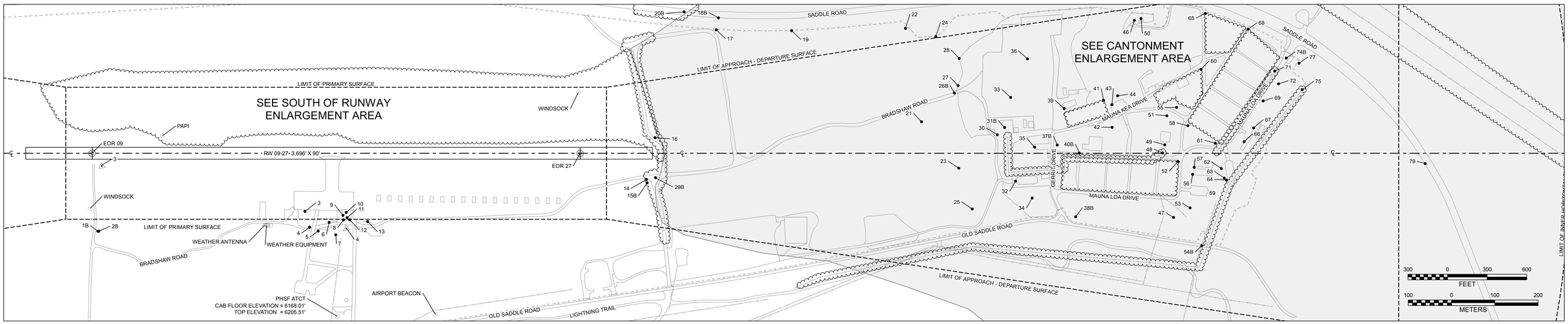
BRADSHAW AAF (PHSF)
POHAKULOA TRAINING AREA, HI

SUBMITTED BY: JACOBS, 400 INDUSTRY DRIVE, SUITE 100, PITTSBURGH, PA 15275, (412) 249-6495	APPROVED BY:	PLAN AND PROFILE
	DATE APPROVED:	

SURVEYED:	BOW	SHEET IDENTIFICATION
DRAWN:	DDL	3 OF 4
CHECKED:	BFF	
APPROVED:	MPB	AOC EDITION:
DATE:	04/23/2019	FIRST EDITION





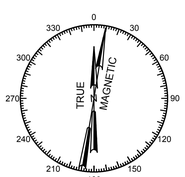


LEGEND

- OBSTRUCTION
- AIRPORT REFERENCE POINT
- RUNWAY END
- REQUIRED NAVAID OR REFERENCE OBJECT (NOT AN OBSTRUCTION)
- AIRPORT CONTROL POINT
- OBSTRUCTION AREA BASED ON SURVEY OR BEST AVAILABLE DATA
- GROUND SURFACE OBSTRUCTION AREA (SEE NOTE 13)
- REFERENCE BASE MAPPING DIGITIZED AND/OR ITAM DATA
- EXISTING FENCE

NOTES:

1. WHEN APPLICABLE, THE FOLLOWING CLEARANCES WERE ADDED TO OBSTRUCTIONS (IN ACCORDANCE WITH UFC 3-260-01, TABLE 3-8):
   +23 FEET FOR RAILROADS
   +17 FEET FOR INTERSTATE HIGHWAYS
   +15 FEET FOR PUBLIC ROADWAYS (EXCLUDING INTERSTATE HIGHWAYS)
   +10 FEET FOR PRIVATE OR MILITARY (ON INSTALLATION) ROADWAYS
   +10 FEET FOR TREES
2. HORIZONTAL AND VERTICAL CONTROL SYSTEM:
   SPCS: HAWAII ZONE 1 FIPS 5101 FT US
   HORIZONTAL DATUM: NAD 83 (PA11)
   VERTICAL DATUM: NAVD 88
   GEODETIC MODEL: NGS GEOID 12B
3. DIMENSIONS AND ELEVATIONS (ORTHOMETRIC) ARE IN FEET.
4. BASE MAPPING IS FOR REFERENCE ONLY.
5. FIELD SURVEY PERFORMED BY JACOBS ENGINEERING GROUP, MARCH 2019.
6. AOC PUBLISHED:
7. OBSTRUCTION ANALYSIS PERFORMED FOR ARMY CLASS A IFR RUNWAY IN ACCORDANCE WITH UFC 3-260-01.
8. SEE FLIGHTLINE OBSTRUCTION CHART SHEETS 3 AND 4 FOR ENLARGED VIEWS OF OBSTACLES ADJACENT TO THE RUNWAY AND WITHIN THE CANTONMENT AREA.
9. AOC POINTS IDENTIFIED WITH A "B" AFTER THE OBSTRUCTION NUMBER INDICATE THE OBSTRUCTION WOULD PENETRATE THE OIS WITHIN THE ADDITION OF THE MINIMUM CLEARANCE DISTANCES AS SPECIFIED IN NOTE 1.
10. TEMPORARY FEATURES THAT PENETRATE THE OBSTRUCTION IDENTIFIED SURFACES ARE NOT SHOWN.
11. AREA OBSTRUCTIONS MAY CONSIST OF A GROUP OF MULTIPLE SURVEYED POINTS. ONLY ONE POINT PER GROUPED OBSTRUCTION AREA IS SHOWN FOR READABILITY.
12. OBSTRUCTIONS SHOWN IN THE TABLE AND ON THE SHEET IN GREYSCALE FONT, AND MARKED WITH AN ASTERISK ARE UNVERIFIED OBSTRUCTIONS BASED ON BEST AVAILABLE USGS AND GOOGLE EARTH DATA.
13. SHADED GROUND SURFACE OBSTRUCTION AREA DERIVED FROM USGS DEM DATA.



MAGNETIC DECLINATION: 9° 27.00' E (MARCH 3, 2019)
ANNUAL CHANGE: (MINUTES/YEAR) 1'/YEAR WEST

SUBMITTED TO: U.S. ARMY CORPS OF ENGINEERS, 1616 CAPITOL AVENUE, SUITE 9000, OMAHA, NE 68102, (402) 995-2747 — US Army Corps of Engineers®	PLOT SCALE: AS SHOWN	PLOT DATE: 04/23/2019	SHEET SIZE: 30" X 42"
	CONTRACT NO: W9128F-18-D-0031		
	FILE NAME: 4_PHSF_RUNWAY_OBSTRUCTION_CHART.MXD		

BRADSHAW AAF (PHSF)
POHAKULOA TRAINING AREA, HI

SUBMITTED BY: JACOBS, 400 INDUSTRY DRIVE, SUITE 100, PITTSBURGH, PA 15275, (412) 249-6495	APPROVED BY:	RUNWAY OBSTRUCTIONS WITH AREA ENLARGEMENTS
	DATE APPROVED:	

SURVEYED:	BOW	SHEET IDENTIFICATION 4 OF 4
DRAWN:	DDL	
CHECKED:	KDG	
APPROVED:	MPB	AOC EDITION: FIRST EDITION
DATE:	04/23/2019	