

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> HILO INTL	<u>AIRPORT ID</u> PHTO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> HILO	<u>STATE</u> HI
<u>AIRPORT ELEVATION</u> 38	<u>TDZE</u> 38	<u>SUPERSEDED</u> RNAV (GPS) RWY 26	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 11/10/2016	<u>MAG VAR</u> 11E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1985

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
GEBNE		FAMOP		TF	FB	1.00	278.65	13.71	4000
HAKRI		FAMOP		TF	FB	1.00	233.72	14.28	4000
ARBOR		CABIX		TF	FB	1.00	106.30	19.00	4000
FAMOP	IAF	CEKOB		TF	FB	1.00	259.11	6.00	2700
CABIX	IAF	CEKOB		TF	FB	1.00	169.07	6.80	2700
CEKOB	IF	EREBE		TF	FB	1.00	259.07	5.64	1800
EREBE	FAF	RW26	MAP	TF	FO	0.30	259.05	5.36	
RW26	MAP	500 MSL		CA			259.05		500
500 MSL		CABIX		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LNAV/VNAV: DA
 LNAV: RW26

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 4000 DIRECT CABIX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT CEKOB

3. FAC:

259.05

FAF: EREBE

DIST FAF TO MAP: 5.36

DIST FAF TO THLD: 5.36

4. MIN ALT: CEKOB 2700, EREBE 1800

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

382 HAT: 1.03

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF : EREBE

OM:

MM:

IM:

7. GP ANGLE:

3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 55.6

8. MSA FROM: RW26 15000

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA S OF RWY 8-26.
CHART NOTE: RWY 26 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: WAAS VNAV NA.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 15°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GEBNE ON V15 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HAKRI ON V22 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARBOR ON V15-V2-V16 NORTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILTY TO 1 1/8 SM, AND LNAV CATS A/B VISIBILITY TO 1SM, AND CAT C/D TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.20 NM TO RW26*
*LNAV ONLY
CHART FAS OBST: 189 TOWER 194345N/1550122W.
HOLD N, RT, 169.07 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2, CAT D 1400-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV/VNAV DA	420	3/4	382	420	3/4	382	420	3/4	382	420	3/4	382			
LNAV MDA	440	3/4	402	440	3/4	402	440	3/4	402	440	3/4	402			
CIRCLING	500	1	462	600	1	562	880	2 1/2	842	1340	3	1302			



CHANGES - REASONS

1. ADDED FIX CABIX. - NEW IAF LOCATION.
2. FIX EREBE RELOCATED 0.08 NM WEST. - TCH CHANGED FROM 53.0 TO 55.6. - ATC REQUEST.
3. TERMINAL ROUTE ARBOR TO COGDA REPLACED BY ROUTE ARBOR TO CABIX. - ADDITION OF FIX CABIX.
4. TERMINAL ROUTE COGDA TO CEKOB REPLACED BY ROUTE CABIX TO CEKOB. - ADDITION OF FIX CABIX.
5. TERMINAL ROUTE CEKOB TO EREBE COURSE/DISTANCE CHANGED FROM 259.08/5.71 TO 259.07/5.64 - RELOCATION OF FIX EREBE.
6. TERMINAL ROUTE EREBE TO RW26 COURSE/DISTANCE CHANGED FROM 259.08/5.30 TO 259.05/5.36. - RELOCATION OF FIX EREBE.
7. MISSED APPROACH (MA) CHANGED FROM CLIMB TO 5000 DIREECT EKAGE THEN ON TRACK 334.97 TO ARBOR AND HOLD TO CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 4000 DIRECT CABIX AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. - ATC REQUEST.
8. LINE 3: FAC CHANGED FROM 259.04 TO 259.05, DIST FAF TO MAP/THLD CHANGED FROM 5.29 TO 5.36. - RELOCATION OF FIX EREBE.
9. LINE 7: TCH CHANGED FROM 53.0 TO 55.6, ADDED NOTE 20:1 IS CLEAR. - ATC REQUEST/8260.19.
10. ADDITIONAL FLIGHT DATA: ADDED HOLDING INFORMATION FOR FIX CABIX. - 8260.19.
11. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON NOTE. - 8260.19.
12. LNAV/VNAV DA/HAT INCREASED FROM 350/312 TO 420/382, DIST TO DA CHANGED TO 1.03. - NEW EVALUATION/CLIMB GRADIENT ADDED.
13. LNAV MDA/HAT 440/402 UPDATED. - NEW EVALUATION.
14. NOTES: REPLACED DME/DME RNP-0.3 NA WITH PNB EQUIPMENT NOTE RNP APCH. - 8260.58.
15. NOTES: CHANGED CHART NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. TO "RWY 26 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - 8260.19.
16. INOPERATIVE NOTE CHANGED FROM FOR INOPERATIVE MALSR INCREASE LNAV CAT A, B & D VISIBILITIES 1/4 MILE. TO " FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILTY TO 1 1/8 SM, AND LNAV CATS A/B VISIBILITY TO 1SM." - NEW EVALUATION,

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** HILO ATCT, HILO APP, AMGR, HI AERO

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

HOWARD L. HAWKINS, JR.

Digitally signed by

HOWARD L HAWKINS

Nov 27, 2018

OFFICE

AJV-5433

DATE

08/28/2018

APPROVED BY

PATRICK MULQUEEN

OFFICE

AJV-5430

DATE

TITLE
MANAGER



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> HILO INTL	<u>AIRPORT ID</u> PHTO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>AMDT NO.</u> 1	<u>CITY</u> HILO	<u>STATE</u> HI	<u>AIRPORT ELEVATION</u> 38	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
GEBNE

TO
FAMOP

RNP

DISTANCE
13.71

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.SHIP MAST	194315.99N/1544446.37W	150	250	50	4D	1000				AT2850	4000
2.TERRAIN	194315.99N/1544446.37W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FEEDER

FROM
HAKRI

TO
FAMOP

RNP

DISTANCE
14.28

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.SHIP MAST	194315.99N/1544446.37W	150	250	50	4D	1000				AT2850	4000
2.TERRAIN	194315.99N/1544446.37W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FEEDER

FROM
ARBOR

TO
CABIX

<u>RNP</u>	<u>DISTANCE</u> 19.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.SHIP MAST	194929.61N/1545040.09W		150	250	50	4D	1000				AT2850	4000
4.TERRAIN	194929.61N/1545040.09W		0 (0)								AS1500	1500

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

FROM
FAMOP

TO
CEKOB

<u>RNP</u>	<u>DISTANCE</u> 6.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.SHIP MAST	194315.99N/1544446.37W		150	250	50	4D	1000				AT1550	2700
2.TERRAIN	194315.99N/1544446.37W		0 (0)								AS1500	1500

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INITIAL

FROM
CABIX

TO
CEKOB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	6.80										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.SHIP MAST	194929.61N/1545040.09W	150	250	50	4D	1000				AT1550	2700
4.TERRAIN	194929.61N/1545040.09W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
CEKOB

TO
EREBE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
	5.64										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.SHIP MAST	194429.12N/1545049.69W	150	250	50	4D	1000				AT650	1800
6.TERRAIN	194429.12N/1545049.69W	0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

EREBE

TO

RW26

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.36		DA	382								
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
7.TREE	194248.00N/1550045.00W	139	50	20	2C		20.56:1			AC20	420	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

EREBE

TO

RW26

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.36		RW26	402								
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
8.TOWER (15-000275)	194345.38N/1550122.05W	189	20	3	1A	250					440	

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HMAS
288

RF CENTER FIX/DISTANCE

HMAS
340

RF CENTER FIX/DISTANCE

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
8.TOWER (15-000275)	194345.38N/1550122.05W	1.30	462	189	20	3	1A	300			500
CATEGORY B											
11.TREE	194300.00N/1550536.00W	1.81	562	281	50	20	2C	300			600
CATEGORY C											
12.TREE	194333.00N/1550636.00W	2.84	842	579	50	20	2C	300			880
CATEGORY D											
13.AAO	194430.04N/1550713.16W	3.70	1302	1039	50	20	2C	300			1340

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW26	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	194924.00N/1552809.00W	273	25.5	13947	50	125	2E	1000			15000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

SLOPE: 20.56:1



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LNAV.VNAV, LNAV		
34:1			
RWY 26, 34:1		79 TREE (15-020840) 194313.66N/1550131.63W (9.17)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
P-NOTAM'S 3/5611 (ORIG-A) WAAS VNAV NOTE, AND 4/4084 (ORIG-B) HELICOPTER NOTE INCLUDED IN THIS AMENDMENT.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.16
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	270.05
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	59
DISTANCE FROM	THLD	TO 1500FT POINT	4.96
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	270.05
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	59

THRESHOLD
COORDINATES
(IF STR-IN)

194316.92N/1550145.41W

ARP COORDINATES

194312.95N/1550254.49W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 26 DISTANCE 1.09 NM

FAF
COORDINATES

194316.76N/1545604.41W

FIX NAME
COORDINATES

REMARKS



<u>AIRPORT</u> HILO INTL	<u>AIRPORT ID</u> PHTO	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 26	<u>AMDT NO.</u> 1	<u>CITY</u> HILO	<u>STATE</u> HI	<u>AIRPORT ELEVATION</u> 38	<u>FACILITY</u> RNAV
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PART E: PREPARED BY

<u>NAME</u> HOWARD L. HAWKINS, JR.	<u>OFFICE</u> AJV-5433	<u>DATE</u> 08/28/2018	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
10
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Page 10 of 10