

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, 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 in feet RVR.			
TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW33 CLIMB TO 3000 DIRECT HOPWO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 146.20 INBOUND. CHART FAS OBST: 1230 TREE 420208N/0934924W DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 0.99 MILES TO RW33* *LNAV ONLY. WAAS CHANNEL # 40133 REFERENCE PATH ID: W33A CHART CIRCLING ICON LTP HAE: 318.9M			
CALUM (IF/IAF)	AKENE (FB)	326.37 / 6.20	3000				
AKENE (FAF)	EPHIZ/2.90 NM TO RW33 (FB)	326.32 / 2.82					
EPHIZ/2.90 NM TO RW33	RW33 (MAP) (FO)	326.32 / 2.90					
RW33 (MAP)	1389 MSL	326.32	3000				
1389 MSL	HOPWO (FO)						

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)			
2. HOLD SE CALUM, RT, 326.37 INBOUND, 4000 FT. IN LIEU OF PT (IAF)			
3. FAC: 326.32 FAF: AKENE		DIST FAF TO MAP: 5.72 THLD: 5.72	
4. MIN. ALT: CALUM 4000, AKENE 3000, EPHIZ/2.90 NM TO RW33 2100*			
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>			
6. MIN GS INCPT: 3000 GS ALT AT: AKENE 3000		OM: <u> </u> MM: <u> </u> IM: <u> </u>	
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR			
8. MSA FROM: <u> </u>			

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @					
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1389	1	250	1389	1	250		NA			NA				
LNAV/VNAV DA	1424	1	285	1424	1	285		NA			NA				
LNAV MDA	1480	1	341	1480	1	341		NA			NA				
CIRCLING	1620	1	460	1640	1	480		NA			NA				

NOTES:
 CHART NOTE: BARO-VNAV NA.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
 CHART NOTE: VDP NA WITH AMES MUNI ALTIMETER SETTING.
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 1160 THRE: 1139	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
BOONE, IA	AIRPORT NAME: BOONE MUNI		RNAV (GPS) RWY 33, AMDT 1	AMDT: ORIG
			22 AUGUST 2013	DATED 12/27/2001

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AMES MUNI ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL MDA 60 FEET. INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 MILE.

TAA

	FROM	TO	ALT
1.	236/30 CW 056/30 (NOPT)	CALUM (IF/IAF) (FB)	4000
2.	056/30 CW 236/30	CALUM (IF/IAF) (FO)	4000

QUALITY
2
CHECKED

CITY AND STATE
BOONE, IA

ELEVATION: 1160 THRE: 1139
AIRPORT NAME:
BOONE MUNI

FACILITY
IDENTIFIER:
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**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBNW
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	420234.8075N
LTP/FTP LONGITUDE	0935030.4555W
LTP/FTP ELLIPSOIDAL HEIGHT	+03189
FPAP LATITUDE	420351.4300N
FPAP LONGITUDE	0935131.5700W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDE PATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

0C565629

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03470
FPAP ORTHOMETRIC HEIGHT	+03470

QUALITY
2
CHECKED

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KBNWK3FR33	ACALUM	010	CALUMK3EA0EE	AR	HF		32640040	+	04000	18000		A	JS
SUSAP KBNWK3FR33	R	010	CALUMK3EA0E	I	IF			+	04000	18000		A	JS
SUSAP KBNWK3FR33	R	020	AKENEK3EA1E	F	051TF		32640062	+	03000			A	JS
SUSAP KBNWK3FR33	R	020	AKENEK3EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP KBNWK3FR33	R	021	EPHIZK3EA0E	S	031TF		32630028	V	0210002102	-300		A	JS
SUSAP KBNWK3FR33	R	030	RW33 K3PGOGY	M	031TF		32630029		01179	-300		A	JS
SUSAP KBNWK3FR33	R	040		0	M	CA	3263	+	01389			A	JS
SUSAP KBNWK3FR33	R	050	HOPWOK3EA0EY		DF			+	03000			A	JS
SUSAP KBNWK3FR33	R	060	HOPWOK3EA0EE	R	HM		14620040	+	03000			A	JS

[illegible][illegible]

SUP:	
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CALUM	CALUM	010	IAF	HF	R	FO		326.4 (329.4T)	004.0	AA 04000	
		CALUM	010	FACF	IF		FB				AA 04000	
		AKENE	020	FAF	TF		FB	0.5	326.4 (329.4T)	006.2	AA 03000	
		EPHIZ	021	SDF	TF		FB	0.3	326.3 (329.3T)	002.8	AA 02100	GS 02102
		RW33	030	MAP	TF		FO	0.3	326.3 (329.3T)	002.9	AT 01179	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		326.3 (329.3T)		AA 01389	
	HOPWO	050		DF		FO				AA 03000	
	HOPWO	060		HM	R	FO		146.2 (149.2T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AKENE	N415739.60	W0934635.48	N4157.660	W09346.591
	CALUM	N415219.42	W0934221.42	N4152.324	W09342.357
	EPHIZ	N420005.15	W0934831.24	N4200.086	W09348.521
	HOPWO	N421256.97	W0935847.75	N4212.950	W09358.796
	RW33	N420234.81	W0935030.46	N4202.580	W09350.508

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW33	01139	40

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