

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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 ID</u> BLV	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 14R	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> BELLEVILLE	<u>STATE</u> IL
<u>AIRPORT ELEVATION</u> 459	<u>TDZE</u> 459	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 2W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2020
				<u>CANCEL/SUSPEND</u>

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>
SLANG	IF	LIBEE		TF	FB	1.00	318.47	5.00	5000
LIBEE		HTDGZ		RF	FB	1.00	(2.87 NM RADIUS CCW (CFLGN))	9.00	2800
DRFTR	IF	HTDGZ		TF	FB	1.00	138.43	4.00	2800
HDUBB	IF	WLSEN		TF	FB	1.00	318.67	5.00	5000
WLSEN		HTDGZ		RF	FB	1.00	(2.46 NM RADIUS CW (CFLGM))	7.74	2800
HTDGZ		HELGU	PFAF	TF	FB	1.00	138.47	2.00	2200
HELGU	PFAF	RW14R	MAP	TF	FO	0.30	138.49	5.31	
RW14R	MAP	803 MSL		CA			138.49		
803 MSL		BUFGE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BUFGE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT HTDGZ				
3. FAC:	138.49	PFAF: HELGU	DIST FAF TO MAP:	DIST FAF TO THLD:	
4. MIN ALT:	HTDGZ 2800, HELGU 2200				
5. DIST TO THLD FROM PFAF:	5.31	MM:	IM:	150 HAT:	344 HAT: 0.92
6. MIN GP INCPT:	2200	GP ALT AT PFAF: HELGU 2200		OM:	GS ANT: MM:
7. GP ANGLE:	3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 50.8	IM:
8. MSA FROM:	RW14R 2700				

QUALITY
34
CHECKED

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM WLSEN, LIBEE: RF

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 5500.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 SM.
CHART SPEED ICON IN PLANVIEW AT SLANG: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT HDUBB: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD SE, LT, 318.66 INBOUND.

MINIMUMS:

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

ALTERNATE: NA ☒

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
AUTHORIZATION REQUIRED															
RNP 0.11 DA	803	3000	344	803	3000	344	803	3000	344	803	3000	344			
RNP 0.15 DA	871	4000	412	871	4000	412	871	4000	412	871	4000	412			
RNP 0.30 DA	1019	6000	560	1019	6000	560	1019	6000	560	1019	6000	560			

CHANGES - REASONS

10/15/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/15/25.
1. ADDED DIST TO THLD FROM PFAF: 5.31 NM.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒

OTHER: ZKC, SCOTT TOWER, STL APP CON, HQ AMC TERPS, ANG/DOBA, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by

CASEY D HILL

Oct 16, 2025

OFFICE

AJF

DATE

09/25/2025

DEVELOPED BY

PHILLIP SMART

Digitally signed by

CASEY D HILL

Oct 16, 2025

OFFICE

AJV-A433

DATE

05/15/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

CASEY D HILL

Oct 16, 2025

OFFICE

AJV-A433

DATE

TITLE
MANAGER



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
BLV	RNAV (RNP) Z RWY 14R	ORIG	BELLEVILLE	IL	459	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM SLANG **TO** LIBEE

RNP 1.00 **DISTANCE** 5.00 **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>
AAO	383921.00N/0894842.00W	807	215	8	4B	500				AC8 AT3685	5000
TERRAIN	383921.00N/0894842.00W	606 (600)								AS1500	2100

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

INTERMEDIATE STEPDOWN

FROM LIBEE **TO** HTDGZ

RNP 1.00 **DISTANCE** 9.00 **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>
TOWER (17-002020)	383747.00N/0900040.00W	1068	100	20	3C	500				AC20 AT1212	2800
TERRAIN	383809.00N/0895848.00W	613 (600)								AS1500	2100

COMPUTATIONS

RF SEGMENT **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**
LIBEE-HTDGZ 5050 210 232.43 4591.24 34.29 2.87 19.88 0.00 0.00 (CFLGN)/9 NM

SEGMENT REMARKS:



INTERMEDIATE

FROM

DRFTR

TO

HTDGZ

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	4.00										
<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>
TOWER (17-002020)	383747.00N/0900040.00W	1068	100	20	3C	500				AC20 AT1212	2800
TERRAIN	383809.00N/0895848.00W	613 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

HDUBB

TO

WLSEN

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	5.00										
<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>
TOWER (17-001504)	383531.65N/0900202.29W	1047	50	20	2C	500				AC20 AT3433	5000
TERRAIN	383409.00N/0900309.00W	623 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE STEPDOWN

FROM

WLSZN

TO

HTDGZ

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	7.74				

<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>
TOWER (17-002020)	383747.00N/0900040.00W	1068	100	20	3C	500				AC20 AT1212	2800
TERRAIN	383445.00N/0900412.00W	659 (700)								AS1500	2200

COMPUTATIONS

RF SEGMENT

WLSZN-HTDGZ

ALT

5050

KIAS

210

KTAS

232.25

HAA

4540.90

VKTW

49.90

TR

2.87

BA

25.20

DTA

0.00

COURSE CHANGE

0.00

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

(CFLGM)/9 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM

HTDGZ

TO

HELGU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	2.00				

<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>
TOWER (17-002020)	383747.00N/0900040.00W	1068	100	20	3C	500				AC20 AT612	2200
TERRAIN	383842.00N/0895706.00W	610 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL

FROM

HELGU

TO

RW14R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.11	5.31		DA				344				
<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>
TREE (17-044777)	383339.65N/0895238.74W	596	20	3	1A					AC3	803

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

HELGU

TO

RW14R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.15	5.31		DA				412				
<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>
TREE (17-040873)	383342.48N/0895255.89W	647	20	3	1A					AC3	871

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM

HELGU

TO

RW14R

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	5.31		DA				560				
<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>
TREE (17-080531)	383353.18N/0895334.70W	725	20	3	1A					AC3	1019

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
39
CHECKS

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BUFFE

RNP 0.11-1.00	DISTANCE	PAT	MAP			HAT	HMAS 642				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TREE	383345.00N/0895333.00W	737	215	8	4B	1000					1800
TERRAIN	383354.00N/0895336.00W	639 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BUFFE

RNP 0.15-1.00	DISTANCE	PAT	MAP			HAT	HMAS 710				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
TREE	383345.00N/0895333.00W	737	215	8	4B	1000					1800
TERRAIN	383354.00N/0895336.00W	639 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LEVEL SURFACE

FROM

DA

TO

BUFFE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30-1.00					876

<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>
							ASC				3000
TREE	383345.00N/0895333.00W	737	215	8	4B	1000					1800
TERRAIN	383354.00N/0895336.00W	639 (600)								AS1500	2100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED

MSA

CENTER

RW14R

RADIUS

25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TOWER (29-000382)	383450.00N/0901945.00W	277	22.1	1649	250	50	4D	1000			2700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>
ATIS	BLV	24	BLV		Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>WMSCR</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14L - HIRL, REIL, PAPI-4R	PIR-G	APPROACH, ROLL OUT
RW14R - ALSF-1, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW32L - ALSF-1, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW32R - MALSR, HIRL, PAPI-4L	PIR-G	APPROACH, ROLL OUT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	459.1	50.8			3.00	50.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-15C	+54C	-15C	+14.09C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 961 HIGH TEMP 1267.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:



PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - RNP PROCEDURE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100' TREE HEIGHT USED PER FPT.

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	3.42
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	136.49
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	THLD	TO 1500FT POINT	5.11
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	136.49
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD COORDINATES (IF STR-IN)	383306.58N/0895142.98W
ARP COORDINATES	383242.62N/0895006.67W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 32R DISTANCE 1.32 NM
FAF COORDINATES	383657.88N/0895622.47W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
PHILLIP SMART	AJV-A433	05/15/2025	AERONAUTICAL INFORMATION SPECIALIST

