

**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.

AIRPORT ID BDL	PROCEDURE NAME RNAV (GPS) RWY 33	ORIGINAL/AMENDMENT 4	CITY WINDSOR LOCKS	STATE CT
AIRPORT ELEVATION 173	TDZE 171	SUPERSEDED ORIGINAL/AMENDMENT RNAV (GPS) RWY 33 3A	DATED 08/12/2021	MAG VAR 14W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1980
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HFD VOR/DME	IAF	HADUX	NOPT	TF	FB	1.00	025.86	9.88	2500
HADUX	IF/IAF	HOMEY		TF	FB	1.00	328.49	5.93	1800
HOMEY	FAF	RW33	MAP	TF	FO	0.30	328.43	4.94	
RW33	MAP	371 MSL		CA			328.43		
371 MSL		DOCEB		DF	FO	1.00			3700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3700 DIRECT DOCEB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3700.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- HOLD SE HADUX, RT, 328.49 INBOUND, 2500 IN LIEU OF PT (IAF), MAX 7000.
- FAC:** 328.43 **FAF:** HOMEY **DIST FAF TO MAP:** 4.94 **DIST FAF TO THLD:** 4.94
- MIN ALT:** HADUX 2500, HOMEY 1800
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.45 **GS ANT:**
- MIN GP INCPT:** 1800 **GP ALT AT PFAF:** HOMEY 1800 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 58.6
- MSA FROM:** RW33 3200



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HFD VOR/DME AIRWAY RADIALS 053 CW 097.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 148.25 INBOUND.
FAS OBST: 309 AAO 415300N/0723754W.
CHART VDP AT 1.00 NM TO RW33.
WAAS CHANNEL # 65628
REFERENCE PATH ID: W33A
LTP HAE: 22.3 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 1000-2 3/4, CAT D 1100-3

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	371	4000	200	371	4000	200	371	4000	200	371	4000	200			
LNAV/VNAV DA	460	4000	289	460	4000	289	460	4000	289	460	4000	289			
LNAV MDA	560	4000	389	560	4000	389	560	4500	389	560	4500	389			
CIRCLING	700	1	527	700	1	527	1100	2 3/4	927	1220	3	1047			

CHANGES - REASONS

1. TERMINAL ROUTES REMOVED ORW VOR/DME TO HADUX - ATC REQUEST.
2. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 3500 DIRECT DOCEB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3500 TO CLIMB TO 3700 DIRECT DOCEB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3700 - ATC REQUEST.
3. NOTES REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ORW VOR/DME AIRWAY RADIALS 238 CW 011 - SEGMENT NO LONGER ON IAP.
4. ADDITIONAL FLIGHT DATA UPDATED FAS OBSTACLE FROM 304 AAO 415303N/0723757W TO 309 AAO 415300N/0723754W NEW OBSTACLE EVALUATION.
5. NOTES ADDED CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 - DID NOT PRINT ON LAST VERSION OF FORMS.
6. MINIMUMS CIRCLING CAT C DA/HAA LOWERED FROM 1120/947 TO 1100/927 - TO MATCH CIRCLING CAT C RNAV (GPS) RWY 15.
7. NOTES: BARO-VNAV LOW TEMP VALUE CHANGED FROM -17C TO -18C - NEW TEMP VALUE BASED ON 2021-2025 TEMP DATA.



AIRPORT ID
BDL

PROCEDURE NAME
RNAV (GPS) RWY 33

ORIGINAL/AMENDMENT
4

CITY
WINDSOR LOCKS

STATE
CT

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA

OTHER: ZBW, BDL APP CON, AMGR

FLIGHT CHECKED BY

Digitally signed by

ROBERT G HAMILTON

Mar 12, 2026

OFFICE

AJF

DATE

03/06/2026

DEVELOPED BY

JOSHUA DUGAN

Digitally signed by

ROBERT G HAMILTON

Mar 12, 2026

OFFICE

AJV-A433

DATE

10/22/2025

APPROVED BY

ROBERT G HAMILTON

Digitally signed by
ROBERT G HAMILTON

Mar 12, 2026

OFFICE

AJV-A433

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBDL
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	415545.3235N
LTP/FTP LONGITUDE	0724030.9555W
LTP/FTP ELLIPSOIDAL HEIGHT	+00223
FPAP LATITUDE	415647.6570N
FPAP LONGITUDE	0724156.2965W
THRESHOLD CROSSING HEIGHT (TCH)	00058.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0664
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER 6D66B942

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00514
FPAP ORTHOMETRIC HEIGHT	+00514



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

<u>AIRPORT ID</u> BDL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> 4	<u>CITY</u> WINDSOR LOCKS	<u>STATE</u> CT	<u>AIRPORT ELEVATION</u> 173	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM HFD VOR/DME **TO** HADUX

RNP 1.00 DISTANCE 9.88 PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	413718.00N/0723142.00W	1103	215	8	4B	1000				AT397	2500
TERRAIN	414024.00N/0722936.00W	869 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM HADUX (IF/IAF) **TO** HOMEY

RNP 1.00 DISTANCE 5.93 PAT MAP HAT HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (09-000154)	414800.35N/0722719.30W	1330	250	50	4D	500				SA-51	1800
TERRAIN	414845.00N/0722736.00W	564 (600)								AS1000	1600

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
173

FACILITY
RNAV

FINAL: LPV

FROM
HOMEY

TO
RW33

RNP
0.30

DISTANCE
4.94

PAT

MAP
DA

HAT
200

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				371

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
HOMEY

TO
RW33

RNP
0.30

DISTANCE
4.94

PAT

MAP
DA

HAT
289

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	415608.00N/0724030.00W	279	50	20	2C	161				AC20	460

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV

FROM
HOMEY

TO
RW33

RNP
0.30

DISTANCE
4.94

PAT

MAP
RW33

HAT
389

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	415300.00N/0723754.00W	309	215	8	4B	250					560

COMPUTATIONS

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

SEGMENT REMARKS:



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AIRPORT ELEVATION
173

FACILITY
RNAV

MISSED APPROACH: LNAV/VNAV

FROM
DA **TO**
DOCEB

RNP 0.30 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
302

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3700
AAO	420330.00N/0725406.00W	1542	215	8	4B	1000					2600
TERRAIN	420245.00N/0725357.00W	1233 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM
RW33 **TO**
DOCEB

RNP 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
460

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3700
AAO	420330.00N/0725406.00W	1542	215	8	4B	1000					2600
TERRAIN	420245.00N/0725357.00W	1233 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:



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APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW15 - REIL, HIRL, PAPI-4L	NPI-G	ROLL OUT
RW06 - ALSF-2, HIRL, TDZ, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW24 - MALSR, HIRL, C/LINE, TDZ, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW33 - MALSF, HIRL, PAPI-4R	PIR-G	APPROACH

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
168.5

TCH
58.6

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
72.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD
ON CENTERLINE

FT FROM THRESHOLD
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

CRITICAL TEMPERATURES

CRITICAL LOW
-18C

CRITICAL HIGH
+54C

ACT
-18C

APT ISA
+14.66C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2021-2025).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 956 HIGH TEMP 1116.

"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:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
TAA NOT DEVELOPED DUE TO HIGH TRAFFIC DENSITY.
100 FT MAXIMUM ADVERSE VEGETATION HEIGHT.
ORDER 8260.3 CHAPTER 2 APPLIED TO 322 AAO 415215.00N/0723542.00W.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



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AIRPORT ELEVATION
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FACILITY
RNAV

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	3.06
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	314.43
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	9.67
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	314.49
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	400

THRESHOLD COORDINATES (IF STR-IN) 415545.32N/0724030.96W
ARP COORDINATES 415620.52N/0724103.54W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 24 DISTANCE 0.89 NM
FAF COORDINATES 415217.86N/0723547.43W
FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JOSHUA DUGAN	AJV-A433	10/22/2025	AERONAUTICAL INFORMATION SPECIALIST

