

**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 JWG	PROCEDURE NAME RNAV (GPS) RWY 17	ORIGINAL/AMENDMENT 1	CITY WATONGA	STATE OK
AIRPORT ELEVATION 1551	TDZE 1551	SUPERSEDED RNAV (GPS) RWY 17	DATED 12/02/2021	MAG VAR 7E
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 12 JUNE 2025	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 1990
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ODINS		ASEHU		TF	FO	1.00	347.95	21.70	4000
CAMAR	IAF	ASEHU	NOPT	TF	FB	1.00	085.11	41.94	4000
ASEHU	IF/IAF	EFOCI		TF	FB	1.00	173.00	6.45	3200
EFOCI	FAF	RW17	MAP	TF	FO	0.30	173.00	5.05	
RW17	MAP	2100 MSL		CA			173.00		2100
2100 MSL		ASEHU		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 4000 DIRECT ASEHU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N ASEHU, RT, 173.00 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 173.00 FAF: EFOCI DIST FAF TO MAP: 5.05 DIST FAF TO THLD: 5.05
- MIN ALT: ASEHU 4000, EFOCI 3200
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.66 GS ANT: MM: IM:
- MIN GP INCPT: 3200 GP ALT AT PFAF: EFOCI 3200
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 40.0
- MSA FROM: RW17 3500



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CLK ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ODINS ON V17 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CAMAR ON V17 NORTHWEST BOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLK ALTIMETER SETTING AND INCREASE LPV DA TO 1887 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 2086 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CAT C 3/8 SM AND CIRCLING VISIBILITY CAT C 1/2 SM.

ADDITIONAL FLIGHT DATA:

CHART VANCE MOA 1A, 1B, 1C

FAS OBST: 1759 AAO 355530N/0982527W.

CHART VDP AT 1.47 NM TO RW17.

WAAS CHANNEL # 78047

REFERENCE PATH ID: W17A

LTP HAE: 445.7 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>			
	<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>												
LPV DA	1801	3/4	250	1801	3/4	250	1801	3/4	250		NA					
LNAV/VNAV DA	2000	1 3/8	449	2000	1 3/8	449	2000	1 3/8	449		NA					
LNAV MDA	2020	1	469	2020	1	469	2020	1 3/8	469		NA					
CIRCLING	2040	1	489	2140	1	589	2140	1 1/2	589		NA					



CHANGES - REASONS

1. CHANGED AIRPORT ID FROM KJWG TO JWG – 8260.19J 8-6-2.A.
2. CHANGED ODINS-ASEHU COURSE FROM 347.96 TO 347.95 AND CAMAR-ASEHU COURSE FROM 085.12 TO 085.11 – ASEHU MOVED 16.13 FT NORTHWEST
3. UPDATED CAMAR-ASEHU TERMINAL ROUTE: ADDED CAMAR FIX TYPE "IAF", ADDED "NO PT" CHANGED ASEHU FROM FO TO FB – CAMAR CHANGED FROM FEDER FIX TO IAF PER FPT/ATC REQUEST
4. DECREASED ASEHU-EFOCI TERMINAL ROUTE DISTANCE FROM 6.51 TO 6.45 – EFOCI MOVED DUE TO GP/VDA CHANGE
5. INCREASED EFOCI-RW17 TERMINAL ROUTE DISTANCE FROM 4.99 TO 5.05 - EFOCI MOVED DUE TO GP/VDA CHANGE
6. INCREASED MISSED APPROACH CLIMB-TO ALTITUDE FROM 1951 MSL TO 2100 MSL – BASED ON LPV MA SECTION 2 START ALTITUDE IAW 8260.58C 3-5-2.A.(2)
7. ADDED MAP: LPV: DA AND LNAV/VNAV: DA – ADDED LPV AND LNAV/VNAV LINES OF MINIMA
8. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING LEFT TURN TO 4000 DIRECT ASEHU AND HOLD" TO "CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 4000 DIRECT ASEHU AND HOLD" – CLIMB-TO ALTITUDE REQUIRED DUE TO ADDITION OF LPV MINIMA
9. INCREASED PROFILE LINE 3 DIST FAF TO MAP AND FAF TO THLD FROM 4.99 TO 5.05 - EFOCI MOVED DUE TO GP/VDA CHANGE
10. ADDED PROFILE LINE 5 250 HAT: 0.66 – 8260.19J 8-6-7.E.
11. ADDED PROFILE LINE 7 GP ANGLE: 3.00 AND TCH: 40.0 – 8260.19J 8-6-7.G.
12. ADDED CHART NOTES "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18°C OR ABOVE 54°C" AND "BARO-VNAV AND VDP NA WHEN USING CLK ALTIMETER SETTING" – 8260.19J 8-6-10.E (8-9) AND 8-6-10.R.
13. ADDED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT ODINS ON V17 SOUTHEAST BOUND" – COURSE CHANGE EXCEEDS 90 DEGREES
14. ADDED PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT CAMAR ON V17 NORTHWEST BOUND" – COURSE CHANGE EXCEEDS 90 DEGREES
15. ADDED LPV AND LNAV/VNAV REMOTE ALTIMETER ADJUSTMENTS TO CHART NOTE - REQUIRED DUE TO ADDITION OF LPV AND LNAV/VNAV MINIMA
16. CHANGED CIRCLING VISIBILITY REMOTE ALTIMETER ADJUSTMENT FROM CAT C 1/4 SM TO CAT C 1/2 SM - UPDATED CIRCLING MINIMUMS
17. REMOVED "EFOCI TO RW17: 3.04/40" – GP ANGLE ESTABLISHED FOR VERTICALLY GUIDED PROCEDURE ON THE SAME CHART
18. CHANGED FAS OBST FROM "1769 TREE 355435N/0982424W" TO "1759 AAO 355530N/0982527W" - GP/VDA CHANGE FROM 3.04 TO 3.00
19. REMOVED 7:1 EXCLUDED OBST FROM ADDITIONAL FLIGHT DATA – AAO 7:1 NO LONGER DOCUMENTED ON 8260-3 FORM
20. ADDED "CHART VDP AT 1.47 NM TO RW17" – 20:1 SURFACE IS CLEAR
21. ADDED "WAAS CHANNEL #78047" AND "REFERENCE PATH ID: W17A" - REQUIRED DUE TO ADDITION OF LPV AND LNAV/VNAV MINIMA
22. CHANGED ALTERNATE MINIMUMS FROM "NA" TO "STANDARD – NA WHEN LOCAL WEATHER NOT AVAILABLE" – LOCAL WEATHER ON WMSCR
23. ADDED LPV AND LNAV/VNAV LINES OF MINIMA – PER FPT/ATC REQUEST
24. LOWERED LNAV MDA/HAT FROM TO 2060/509 TO 2020/469 - PREVIOUS XP ADJUSTMENT NO LONGER REQUIRED DUE TO OBSTACLE STUDY
25. LOWERED CIRCLING CAT A CMDA/HAA FROM 2060/509 TO 2040/489, CAT B & C FROM 2240/689 TO 2140/589 AND VISIBILITY CAT C FROM 2 SM TO 1 1/2 SM - SI ADJUSTMENT NO LONGER NEEDED DUE TO NEW LNAV MDA AND XP ADJUSTMENT NO LONGER REQUIRED DUE TO OBSTACLE STUDY
26. ADDED FAS DATA BLOCK INFORMATION - REQUIRED DUE TO ADDITION OF LPV AND LNAV/VNAV MINIMA

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA
 OTHER: ZKC, ZFW, END APCH CON, AMGR

FLIGHT CHECKED BY

Digitally signed by
CASIMIR L TABAKA

OFFICE

DATE

RUSSELL ROSLEWSKI

Mar 17, 2025

AJF

03/15/2025

DEVELOPED BY

JON NEIDIGH

Digitally signed by
JON M NEIDIGH

Sep 03, 2024

OFFICE

AJV-A432

DATE

05/29/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA

Mar 17, 2025

OFFICE

AJV-A432

DATE

**TITLE
MANAGER**



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KJWG
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	355212.2100N
LTP/FTP LONGITUDE	0982514.7260W
LTP/FTP ELLIPSOIDAL HEIGHT	+04457
FPAP LATITUDE	355042.9790N
FPAP LONGITUDE	0982514.7180W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 6088688D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+04727
FPAP ORTHOMETRIC HEIGHT	+04727

