

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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> BWD	<u>PROCEDURE NAME</u> VOR RWY 35	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BROWNWOOD	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 1387	<u>TDZE</u> 1386	<u>SUPERSEDED</u> VOR RWY 35	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 07/15/2021	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> BWD	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BWD VOR/DME		GRUPE/BWD 11.64 DME					170.81	11.64	3600
ZANNE/BWD 21.63 DME/RADAR	IF	GRUPE/BWD 11.64 DME	NOPT				350.81 (BWD R-171)	10.00	3100

MISSED APPROACH

MAP:

BWD 6.35 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT BWD VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3600.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	R	SIDE OF COURSE	170.81	OUTBOUND	3600	FT WITHIN	10	MILES OF	GRUPE/BWD 11.64 DME (IAF)
2.									
3. FAC:	350.81	FAF:	GRUPE/BWD 11.64 DME	DIST FAF TO MAP:		DIST FAF TO THLD:	5.28		
4. MIN ALT:	GRUPE/BWD 11.64 DME 3100								
8. MSA FROM:	BWD VOR/DME 3700								



EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME REQUIRED.

NOTES:

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

GRUPE/BWD 11.64 DME TO RW35: 3.00/48.

HOLD N, RT, 170.72 INBOUND.
CHART FAS OBST: 1687 TOWER (48-174109) 314408N/0985538W.
CHART VDP AT 7.99 DME.
DISTANCE VDP TO THLD 1.63 NM.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
S-35	1940	1	554	1940	1	554	1940	1 5/8	554	1940	1 5/8	554			
CIRCLING	1940	1	553	1940	1	553	2040	1 3/4	653	2160	2 1/2	773			

CHANGES - REASONS

1. TERMINAL ROUTES: UPDATED FROM "BWD VOR/DME TO GRUPE/BWD 12.00 DME" TO " BWD VOR/DME TO GRUPE/BWD 11.64 DME" - GRUPE MOVED TO ALIGN VDA AND VGSI.
2. TERMINAL ROUTES: ADJUSTED COURSE FROM BWD VOR/DME TO GRUPE/BWD 11.64 DME FROM "170.83" TO "170.81" AND DISTANCE FROM "12.00" TO "11.64" - GRUPE MOVED TO ALIGN VDA AND VGSI AND COURSE UPDATED WITH NEW EVALUATION.
3. TERMINAL ROUTES: REMOVED "LLO VORTAC TO ZANNE/BWD 22.00 DME" - LLO VOR MON.
4. TERMINAL ROUTES: UPDATED FROM "ZANNE/BWD 22.00 DME TO GRUPE/BWD 12.00 DME" TO "ZANNE/BWD 21.60 DME/RADAR TO GRUPE/BWD 11.64 DME" - GRUPE MOVED NORTH 2220FT.
5. TERMINAL ROUTES:ADJUSTED COURSE FROM ZANNE/BWD 21.60 DME/RADAR TO GRUPE/BWD 11.64 DME FROM "350.83" TO "350.81" - GRUPE MOVED NORTH 2220FT.
6. MISSED APPROACH: MAP UPDATED FROM "BWD 6.40 DME" TO "BWD 6.35 DME" - IAW 8260.19I 8-6-6(C).
7. PROFILE LINE 1: UPDATED MILES OF FROM "GRUPE (IAF)" TO "GRUPE/BWD 11.64 DME (IAF)" - FIX MAKEUP ADDED AND IAW 8260.19I 8-6-7(A).
8. PROFILE LINE 3: UPDATED FAC FROM "350.83" TO "350.81" AND FAF FROM "GRUPE/BWD 12.00 DME" TO "GRUPE/BWD 11.64 DME" AND UPDATED DIST FAF TO THLD FROM "5.70" TO "5.28" - GRUPE MOVED NORTH 2220FT AND IAW 8260.19I 8-6-7(C).
9. PROFILE LINE 4: UPDATED MIN ALT FROM "GRUPE/BWD 12.00 DME 3100" TO "GRUPE/BWD 11.64 DME 3100" - GRUPE MOVED NORTH 2220FT.
10. PROFILE LINE 8: MSA UPDATED FROM "BWD VOR/DME 3500" TO "BWD VOR/DME 3700" - NEW CONTROLLING OBSTACLE.
11. EQUIPMENT REQUIREMENTS NOTES: ADDED "RADAR REQUIRED FOR PROCEDURE ENTRY" - REQUIRED FOR ATC VECTORS AND IAW 8260.19I 8-6-8(A1).
12. NOTES: REMOVED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE/}TCH {FEET})" - VGSI ALIGNED WITH MOVEMENT OF GRUPE.
13. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "1630 TOWER 314424N/0985752W" TO "1687 TOWER (48-174109) 314408N/0985538W" - NEW CONTRLLING OBSTACLE.
14. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 7.99 DME" AND "DISTANCE VDP TO THLD 1.63 NM" - IAW 8260.19I 8-6-10(M)(N)
15. ADDITIONAL FLIGHT DATA: UPDATED FROM "GRUPE/BWD 12 DME TO RW35: 2.82/40" TO "GRUPE/BWD 11.64 DME TO RW35: 3.00/48" - IAW 8260.19I 8-6-10(O).
16. ADDITIONAL FLIGHT DATA: UPDATED "HOLD N, RT, 171.00 INBOUND" TO "HOLD N, RT, 170.72 INBOUND" - MATCHED TO VOR RWY 17.
17. MINIMUMS: RAISED CAT C CIRCLING CMDA/HAA FROM "1980/593" TO "2040/653" AND VISIBILITY FROM "1 5/8" TO "1 3/4" - NEW CONTROLLING OBSTACLE AND IAW 8260.3E TABLE 3-3-1.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☐

HAI

☐

NBAA

☒

OTHER: ZFW, FTW FSS, AMGR

FLIGHT CHECKED BY

BRIAN HARRELSON

Digitally signed by

ROBERT G HAMILTON

Sep 12, 2024

OFFICE

FPO

DATE

08/23/2024

DEVELOPED BY

MATTHEW W.TOWNSEND (ROBERT G HAMILTON)

Digitally signed by

ROBERT G HAMILTON

Sep 12, 2024

OFFICE

AJV-A433

DATE

01/25/2024

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Sep 12, 2024

OFFICE

AJV-A433

DATE

TITLE

MANAGER