

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
LOC STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.25**

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> LOC RWY 17	<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> BROWNWOOD	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1387	<u>TDZE</u> 1387	<u>SUPERSEDED</u> LOC RWY 17	<u>ORIGINAL/AMENDMENT</u> 4C	<u>DATED</u> 07/15/2021
<u>FACILITY</u> I-BWD	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>REQUIRED EFFECTIVE DATE</u> 10/31/2024	<u>MAG VAR</u> 4E
				<u>EPOCH YEAR</u> 2020
				<u>CANCEL/SUSPEND</u>

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TQA VOR/DME		ELISE INT/BWD 10.00 DME					093.33	44.98	4500
KIMRR INT/BWD 25.52 DME	IAF	ELISE INT/BWD 10.00 DME	NOPT				171.71 (BWD R-352)	15.52	4000
ELISE INT/BWD 10.00 DME	IF/IAF	MACED/BWD 1.00 DME					175.36 (I-BWD)	9.00	3400
MACED/BWD 1.00 DME		OWNEY OM/BWD 1.75 DME					175.36 (I-BWD)	2.75	2600

**MISSED APPROACH**

**MAP:**

LOC: BWD 5.43 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 021 AND ON BWD VOR/DME R-356 TO ELISE INT/BWD 10.00 DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- HOLD N ELISE INT/BWD 10.00 DME, RT, 175.36 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 10000.
- FAC:** 175.36 **FAF:** OWNEY OM/BWD 1.75 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 3.68
- MIN ALT:** ELISE INT/BWD 10.00 DME 4000, MACED/BWD 1.00 DME 3400, OWNEY OM/BWD 1.75 DME 2600, PENFY/BWD 3.33 DME 2100
- MSA FROM:** BWD VOR/DME 3700



EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.  
RADAR REQUIRED FOR PROCEDURE ENTRY AT KIMRR.

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: DME FROM BWD VOR/DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-BWD AND BWD DME.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: TQA 44.98 DME AT ELISE.  
OWNEY OM/BWD 1.75 DME TO RW17 2.97/54.  
  
CHART FAS OBST: 1463 TREE (48-044910) 314844N/0985731W.  
CHART VDP AT 4.24 DME.  
DISTANCE VDP TO THLD 1.19 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-LOC 17	1760	3/4	373	1760	3/4	373	1760	3/4	373	1760	3/4	373			
CIRCLING	1820	1	433	1840	1	453	2040	1 3/4	653	2160	2 1/2	773			



CHANGES - REASONS

1. TERMINAL ROUTES: REMOVED LEG "BUILT INT/35.84 DME TO BWD VOR/DME" - PER ATC REQUEST AND V161 BECOMING T ROUTE AND BUILT INT WILL BE TRANSITIONING TO WP AND VHF FIX ONLY.
2. TERMINAL ROUTES: REMOVED LEG "LLO VORTAC TO BWD VOR/DME" - LLO VOR MON.
3. TERMINAL ROUTES: REMOVED LEG "ABI VORTAC TO BWD VOR/DME" - PER ATC REQUEST.
4. TERMINAL ROUTES: ADDED LEG "TQA VOR/DME TO ELISE INT/BWD 10.00 DME" AND COURSE, DISTANCE, AND ALTITUDE OF "093.33, 44.98, AND 4500" - PER ATC REQUEST.
5. TERMINAL ROUTES: UPDATED LEG FROM KIMRR INT/BWD 25.52 DME TO ELISE INT/BWD 10.00 DME DISTANCE FROM "15.50" TO "15.52 (BWD R-352)" AND ALTITUDE FROM "3600" TO "4000" - ELISE INT/BWD 10.00 DME MOVED 754FT EAST AND ALTITUDE RAISED PER ATC REQUEST TO MEET IF ALTITUDE.
6. TERMINAL ROUTES: UPDATED LEG FROM "ELISE INT/BWD 10.00 DME TO BWD VOR/DME" TO "ELISE INT/BWD 10.00 DME TO MACED/BWD 1.00 DME" AND COURSE, DISTANCE, AND ALTITUDE FROM "175.35, 10.00, AND 3100" TO "175.36, 9.00(I-BWD), AND 3400" - INTERMEDIATE SEGMENT REBUILT PER ATC REQUEST.
7. TERMINAL ROUTES: ADDED LEG "MACED/1.00 DME TO OWNEY OM/BWD 1.75 DME" AND COURSE, DISTANCE, AND ALTITUDE OF "175.36, 2.75(I-BWD), AND 2600" - STEP DOWN FIX ADDED PER ATC REQUEST.
8. MISSED APPROACH: UPDATED MAP FROM "LOC: 3.70 NM AFTER OWNEY OM/BWD 1.75 DME" TO "BWD 5.43 DME" - IAW 8260.19I 8-6-6(E).
9. MISSED APPROACH: UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING LEFT TURN TO 3600 DIRECT BWD VOR/DME AND HOLD" TO "CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 4000 ON HEADING 021 AND ON BWD VOR/DME R-356 TO ELISE INT/BWD 10 DME AND HOLD" - PER ATC REQUEST TO REPLACE BWD VOR/DME WITH ELISE INT/10.00 DME AND IAW 8260.19I 8-6-6(G).
10. PROFILE LINE 1: REMOVED PROCEDURE TURN INFO " PT: L, SIDE OF COURSE:351.00, OUTBOUND:3600, FT WITHIN: 10, MILES OF: BWD(IAF)" - IAW 8260.19I 8-6-7(A).
11. PROFILE LINE 2: ADDED "HOLD N ELISE, RT, 175.36 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 10000" - IAW 8260.19I 8-6-7(B).
12. PROFILE LINE 3: UPDATED FAC FROM "175.35" TO "175.36", AND DISTANCE FAF TO THLD FROM "3.70" TO "3.68" AS WELL AS REMOVED DIST FAF TO MAP "3.70" - UPDATED EVALUATION.
13. PROFILE LINE 4: UPDATED MIN ALT FROM "BWD VOR/DME 3100, OWNEY OM/BWD 1.75 DME 2600" TO "ELISE INT/BWD 10.00 DME 4000, MACED/BWD 1.00 DME 3400, OWNEY OM/BWD 1.76 DME 2600, PENFY/BWD 3.33 DME 2100" - IAW 8260.19I 8-6-7(D).
14. PROFILE LINE 8: UPDATED MSA FROM "BWD VOR/DME 3600" TO "BWD VOR/DME 3700" - IAW 8260.19I 8-6-7 (H) AND NEW CONTROLLING OBSTACLE.
15. EQUIPMENT REQUIREMENTS NOTES: ADDED "DME REQUIRED" AND "RADAR REQUIRED FOR PROCEDURE ENTRY AT KIMRR" - PROJECT UNABLE TO REMAIN VOR MON SAFE APPROACH, PROCEDURE RECONSTRUCTED PER FPT REQUEST.
16. NOTES: DELETED "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY" - IAW 8260.19I, 8-6-11 (O) (3), NOT APPLICABLE AS STANDARD NO-LIGHT INCREASES APPLIES.
17. NOTES: ADDED "CHART NOTE: DME FROM BWD VOR/DME. DME USE REQUIRES SIMULTANEOUS RECEPTION OF I-BWD AND BWD DME" - IAW 8260.19I 8-6-9.K.
18. ADDITIONAL FLIGHT DATA: REMOVED "HOLD N, RT, 171.00 INBOUND" - MISSED APPROACH ESTABLISHED AT IF HILO AND NOT CHARTED IAW 8260.19 8-6-6.G.
19. ADDITIONAL FLIGHT DATA: UPDATED "CHART VDP AT 4.20 DME" AND "DISTANCE VDP TO THLD 1.20 NM" TO "CHART VDP AT 4.24 DME" AND "DISTANCE VDP TO THLD 1.19 NM" - IAW 8260.19I 8-6-10(M).
20. ADDITIONAL FLIGHT DATA: ADDED "CHART IN PLANVIEW: TQA 44.98 DME AT ELISE" - IAW 8260.19J 8-6-11.
21. MINIMUMS: UPDATED S-LOC MDA/HAT FROM "1820/433" TO "1760/373" AND VISIBILITY FROM "1" TO "3/4" - NEW EVALUATION AND IAW 8260.3 TABLE 3-3-1.
22. MINIMUMS: UPDATED CIRCLING CAT C CMDA/HAA FROM "1980/593" TO "2040/653" AND VIS UPDATED FROM "1 1/2" TO "1 3/4" - NEW CONTROLLING OBSTACLE AND IAW 8260.3 TABLE 3-3-1.

09/12/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/12/24.

1. CHANGED REQUIRED EFFECTIVE DATE FROM ROUTINE TO 10/31/2024 - HARD DATED.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER:ZFW, FTW FSS, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by

ROBERT G HAMILTON

Sep 13, 2024

OFFICE

DATE

DEVELOPED BY

ROBERT G HAMILTON (MATTHEW W.TOWNSEND)

Digitally signed by

ROBERT G HAMILTON

Sep 13, 2024

OFFICE

DATE

AJV-A433

02/12/2024

APPROVED BY

ROBERT G HAMILTON

Digitally signed by

ROBERT G HAMILTON

Sep 13, 2024

OFFICE

DATE

AJV-A433

TITLE

MANAGER

