

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SUPERSEDED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

- |              |                                                                                                            |          |                       |                  |                        |
|--------------|------------------------------------------------------------------------------------------------------------|----------|-----------------------|------------------|------------------------|
| 1. PT        | SIDE OF COURSE                                                                                             | OUTBOUND | FT WITHIN             | MILES OF         | (IAF)                  |
| 2.           | HOLD N ELISE INT/BWD 10.00 DME, RT, 175.36 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 10000.               |          |                       |                  |                        |
| 3. FAC:      | 175.36                                                                                                     | FAF:     | OWNEY OM/BWD 1.75 DME | DIST FAF TO MAP: | DIST FAF TO THLD: 3.68 |
| 4. 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 |          |                       |                  |                        |
| 8. MSA FROM: | BWD VOR/DME 3700                                                                                           |          |                       |                  |                        |





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



**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> |
|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| BWD               | LOC RWY 17            | 5               | BROWNWOOD   | TX           | 1387                     | I-BWD           |

**PART A: OBSTRUCTION DATA SEGMENTS**

**FEEDER**

**FROM** TQA VOR/DME **TO** ELISE INT/BWD 10.00 DME

| <u>RNP</u>         | <u>DISTANCE</u><br>44.98 | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            |            |           | <u>HMAS</u> |                    |                |
|--------------------|--------------------------|-----------------|-------------|-------------|------------|------------|------------|-----------|-------------|--------------------|----------------|
| <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 (48-015012)  | 321346.56N/0993741.55W   | 2880            | 50          | 20          | 2C         | 1000       |            |           |             | AT620              | 4500           |
| TERRAIN            | 321015.00N/0994951.00W   | 2352 (2400)     |             |             |            |            |            |           |             | AS1500             | 3900           |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INITIAL**

**FROM** KIMRR INT/BWD 25.52 DME **TO** ELISE INT/BWD 10.00 DME

| <u>RNP</u>         | <u>DISTANCE</u><br>15.52 | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> |            |           | <u>HMAS</u> |                    |                |
|--------------------|--------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| <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                | 320742.00N/0990154.00W   | 2071            | 215         | 8           | 4B        | 1000       |            |           |             | AT929              | 4000           |
| TERRAIN            | 320742.00N/0990154.00W   | 1870 (1900)     |             |             |           |            |            |           |             | AS1500             | 3400           |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**



INTERMEDIATE

FROM

ELISE INT/BWD 10.00 DME (IF/IAF)

TO

MACED/BWD 1.00 DME

| <u>RNP</u>         | <u>DISTANCE</u><br>9.00 | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u> |           |             |                    |                |
|--------------------|-------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| <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                | 320242.00N/0985506.00W  | 2136            | 215         | 8           | 4B        | 500        |             |           |             |                    | 2700           |
| TERRAIN            | 320242.00N/0985506.00W  | 1935 (1900)     |             |             |           |            |             |           |             | AS1500             | 3400           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM

MACED/BWD 1.00 DME

TO

OWNEY OM/BWD 1.75 DME

| <u>RNP</u>         | <u>DISTANCE</u><br>2.75 | <u>PAT</u>      | <u>MAP</u>  |             |           | <u>HAT</u> | <u>HMAS</u> |           |             |                    |                |
|--------------------|-------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| <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                | 315503.00N/0985606.00W  | 1864            | 215         | 8           | 4B        | 500        |             |           |             |                    | 2400           |
| TERRAIN            | 315427.00N/0985624.00W  | 1646 (1600)     |             |             |           |            |             |           |             | AS1000             | 2600           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LOC

FROM

OWNEY OM/BWD 1.75 DME

TO

PENFY/BWD 3.33 DME

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
|                    | 1.58                   |                 |             |             |            |            |             |           |             |                    |                |
| <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                | 315218.00N/0985703.00W | 1785            | 215         | 8           | 4B         | 250        |             |           |             | RA60               | 2100           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

PENFY/BWD 3.33 DME

TO

BWD 5.43 DME

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>   |             | <u>HAT</u> |            | <u>HMAS</u> |           |             |                    |                |
|--------------------|------------------------|-----------------|--------------|-------------|------------|------------|-------------|-----------|-------------|--------------------|----------------|
|                    | 2.10                   |                 | BWD 5.43 DME |             | 373        |            |             |           |             |                    |                |
| <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 (48-044910)   | 314844.38N/0985731.11W | 1463            | 20           | 3           | 1A         | 250        |             |           |             |                    | 1760           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



HOLD-IN-LIEU OF PT

FROM

ELISE INT/BWD 10.00 DME

TO

P-7

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u><br>P-7 | <u>MAP</u>  |             |           |            | <u>HAT</u> | <u>HMAS</u> |             |                    |                |
|--------------------|------------------------|-------------------|-------------|-------------|-----------|------------|------------|-------------|-------------|--------------------|----------------|
| <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                | 320242.00N/0985506.00W | 2136              | 215         | 8           | 4B        | 1000       |            |             |             | AT864              | 4000           |
| TERRAIN            | 320242.00N/0985506.00W | 1935 (1900)       |             |             |           |            |            |             |             | AS1500             | 3400           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LOC

FROM

5.43 DME

TO

ELISE INT/BWD 10.00 DME

| <u>RNP</u>         | <u>DISTANCE</u>        | <u>PAT</u>      | <u>MAP</u>  |             |           |            | <u>HAT</u> | <u>HMAS</u><br>1510 |             |                    |                |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|---------------------|-------------|--------------------|----------------|
| <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        |                     |             |                    | 4000           |
| TOWER (48-031526)  | 315723.80N/0985223.10W | 2328            | 20          | 3           | 1A        | 1000       |            |                     |             |                    | 3400           |
| TERRAIN            | 315703.00N/0985236.00W | 1978 (2000)     |             |             |           |            |            |                     |             | AS1500             | 3500           |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

BWD

PROCEDURE NAME

LOC RWY 17

AMDT NO.

5

CITY

BROWNWOOD

STATE

TX

AIRPORT ELEVATION

1387

FACILITY

I-BWD

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

| OBSTRUCTION       | COORDINATES            | RADIUS | HAA | ELEV MSL | HORZ | VERT | AC | ROC | OCS | ADJUSTMENTS | MIN ALT |
|-------------------|------------------------|--------|-----|----------|------|------|----|-----|-----|-------------|---------|
| CATEGORY A        |                        |        |     |          |      |      |    |     |     |             |         |
| TREE              | 314900.00N/0985748.00W | 1.31   | 433 | 1517     | 215  | 8    | 4B | 300 |     |             | 1820    |
| CATEGORY B        |                        |        |     |          |      |      |    |     |     |             |         |
| TREE              | 314700.00N/0985518.00W | 1.85   | 453 | 1533     | 215  | 8    | 4B | 300 |     |             | 1840    |
| CATEGORY C        |                        |        |     |          |      |      |    |     |     |             |         |
| TOWER (48-191085) | 314946.92N/0990018.96W | 2.92   | 653 | 1723     | 20   | 3    | 1A | 300 |     |             | 2040    |
| CATEGORY D        |                        |        |     |          |      |      |    |     |     |             |         |
| TOWER (48-007662) | 314548.54N/0985335.17W | 3.82   | 773 | 1805     | 500  | 50   | 5D | 300 |     | AC50        | 2160    |

CIRCLING REMARKS:

MSA

CENTER

BWD VOR/DME

RADIUS

25

| SECTOR  | OBSTRUCTION          | COORDINATES            | BEARING | DISTANCE | ELEV MSL | HORZ | VERT | AC | ROC  | OCS | ADJUSTMENTS | MIN ALT |
|---------|----------------------|------------------------|---------|----------|----------|------|------|----|------|-----|-------------|---------|
| 360-360 | WINDMILL (48-187248) | 321344.82N/0991045.51W | 323     | 23.1     | 2676     | 250  | 50   | 4D | 1000 |     |             | 3700    |

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:





PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

FTW FSS, ZFW ARTCC

|                           |                 |                      |                         |                 |                  |                    |
|---------------------------|-----------------|----------------------|-------------------------|-----------------|------------------|--------------------|
| <u>WX SERVICE</u>         | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>SERVICE-A</u> | <u>ADJUSTMENTS</u> |
| AWOS-3                    | BWD             | 24                   | BWD                     | 0               | Y                | 0                  |
| <u>BACK-UP WX SERVICE</u> | <u>LOCATION</u> | <u>HRS OPERATION</u> | <u>ALTIMETER SOURCE</u> | <u>DISTANCE</u> | <u>SERVICE-A</u> | <u>ADJUSTMENTS</u> |
| AWOS-3                    | MKN             | 24                   | MKN                     | 19.77           | Y                | 48                 |

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME  
KBWD 1387, KMKN 1402  
RA = 48.0.

|                       |                      |                      |            |
|-----------------------|----------------------|----------------------|------------|
| <u>PRIMARY NAVAID</u> | <u>MONITOR POINT</u> | <u>HRS OPERATION</u> | <u>CAT</u> |
| I-BWD                 | MOCC                 | 24                   | 1          |

|                                            |                        |                            |
|--------------------------------------------|------------------------|----------------------------|
| <u>APPROACH AND RUNWAY LIGHTING SYSTEM</u> | <u>RUNWAY MARKINGS</u> | <u>RUNWAY VISUAL RANGE</u> |
| RW13 - MIRL (PCL)                          | BSC-G                  |                            |
| RW31 - MIRL (PCL)                          | BSC-G                  |                            |
| RW17 - MALS (PCL), MIRL (PCL), PAPI-4L     | NPI-G                  |                            |
| RW35 - MIRL (PCL), PAPI-4L                 | NPI-G                  |                            |

|                         |                           |            |                        |                          |                   |            |
|-------------------------|---------------------------|------------|------------------------|--------------------------|-------------------|------------|
| <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              | 55.1       |

FINAL APPROACH COURSE AIMING

|                  |                                     |                    |                              |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD  | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE    | <input checked="" type="checkbox"/> | FT FROM CENTERLINE |                              |

CRITICAL TEMPERATURES

|                     |                      |            |                |
|---------------------|----------------------|------------|----------------|
| <u>CRITICAL LOW</u> | <u>CRITICAL HIGH</u> | <u>ACT</u> | <u>APT ISA</u> |
|---------------------|----------------------|------------|----------------|

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

|                                                         |                                                         |
|---------------------------------------------------------|---------------------------------------------------------|
| FINAL TYPE                                              | LOC                                                     |
| 34:1                                                    |                                                         |
| 1411 TREE (48-038095) 314816.8100N/0985721.5600W (2.61) | 1418 TREE (48-117100) 314819.8800N/0985715.1800W (0.66) |

PENETRATIONS REMARKS:

|  |                          |
|--|--------------------------|
|  | QUALITY<br>34<br>CHECKED |
|--|--------------------------|

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.

APPROVAL LETTER: VDA LESS THAN VGSI ANGLE USED; 8260.3E 2-6-2.B.

CONTINGENT ALTIMETER NOTES:  
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MKN ALTIMETER SETTING: INCREASE ALL MDAS 60 FEET AND S-LOC 17 VISIBILITY CAT C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT C AND D 1/4 SM.  
VDP NA WHEN USING MKN ALTIMETER SETTING.

ASSUMED VEGETATION PER FPT 50FT.

MISSED APPROACH ESTABLISHED AT IF HILO AND NOT CHARTED IAW 8260.19 8-6-6.G.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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                 | 3.68   |
| WIDTH OF        | FINAL        | SEGMENT AT 1000FT POINT         | 1.01   |
| TRUE COURSE OF  | FINAL        | SEGMENT CONTAINING 1000FT POINT | 179.36 |
| HIGH TERRAIN IN | FINAL        | SEGMENT CONTAINING 1000FT POINT | 1600   |
| DISTANCE FROM   | THLD         | TO 1500FT POINT                 | 5.83   |
| WIDTH OF        | INTERMEDIATE | SEGMENT AT 1500FT POINT         | 2.72   |
| TRUE COURSE OF  | INTERMEDIATE | SEGMENT CONTAINING 1500FT POINT | 179.36 |
| HIGH TERRAIN IN | INTERMEDIATE | SEGMENT CONTAINING 1500FT POINT | 1600   |

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| THRESHOLD COORDINATES (IF STR-IN)          | 314806.79N/0985718.28W          |
| ARP COORDINATES                            | 314737.00N/0985723.40W          |
| RUNWAY APCH END AND DIST FURTHEST FROM ARP | RUNWAY 17 DISTANCE 0.50 NM      |
| FAF COORDINATES                            | 315148.29N/0985721.19W          |
| FIX NAME COORDINATES                       | IF MACED 315433.40N/0985723.35W |

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

|                                        |          |            |                                     |
|----------------------------------------|----------|------------|-------------------------------------|
| NAME                                   | OFFICE   | DATE       | TITLE                               |
| ROBERT G HAMILTON (MATTHEW W.TOWNSEND) | AJV-A433 | 02/12/2024 | AERONAUTICAL INFORMATION SPECIALIST |

