

**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.

<u><b>AIRPORT ID</b></u> BWD	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 17	<u><b>ORIGINAL/AMENDMENT</b></u> 1D	<u><b>CITY</b></u> BROWNWOOD	<u><b>STATE</b></u> TX
<u><b>AIRPORT ELEVATION</b></u> 1387	<u><b>TDZE</b></u> 1387	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 17	<u><b>DATED</b></u> 07/14/2022	<u><b>MAG VAR</b></u> 4E
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u>	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>EPOCH YEAR</b></u> 2020
				<u><b>CANCEL/SUSPEND</b></u>

**TAA**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 085/30 CW 265/30	NOPT	MUSRE	IF/IAF	4000
2. 265/30 CW 355/30		ZIHMY	IAF	4000
3. 355/30 CW 085/30		OHSOJ	IAF	4000

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
ZIHMY	IAF	MUSRE	NOPT	TF	FB	1.00	265.41	5.00	4000
OHSOJ	IAF	MUSRE	NOPT	TF	FB	1.00	085.31	5.00	4000
MUSRE	IF/IAF	INUWE		TF	FB	1.00	175.36	6.32	3000
INUWE	FAF	CUBKI/2.00 NM TO RW17		TF	FB	0.30	175.36	2.84	
CUBKI/2.00 NM TO RW17		RW17	MAP	TF	FO	0.30	175.36	2.00	
RW17	MAP	1637 MSL		CA			175.36		
1637 MSL		PEQIS		DF	FO	1.00			4000

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV: RW17

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 4000 DIRECT PEQIS AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

- 1. **PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**                      (IAF)
- 2. HOLD N MUSRE, RT, 175.36 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 10000.
- 3. **FAC:** 175.36                      **FAF:** INUWE                      **DIST FAF TO MAP:** 4.84                      **DIST FAF TO THLD:** 4.84
- 4. **MIN ALT:** MUSRE 4000, INUWE 3000, CUBKI/2.00 NM TO RW17 2060
- 5. **DIST TO THLD FROM OM:**                      **MM:**                      **IM:**                      **150 HAT:**                      **250 HAT:** 0.62                      **GS ANT:**
- 6. **MIN GP INCPT:** 3000                      **GP ALT AT PFAF:** INUWE 3000                      **OM:**                      **MM:**                      **IM:**
- 7. **GP ANGLE:** 3.00                      **34:1:** IS NOT CLEAR                      **20:1:** IS CLEAR                      **TCH:** 52.0
- 8. **MSA FROM:**

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CATS C AND D VISIBILITY TO 1 1/8 SM.  
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.

**ADDITIONAL FLIGHT DATA:**

HOLD S, RT, 355.36 INBOUND.  
 CHART FAS OBST: 1539 TREE 314918N/0985715W.  
 CHART VDP AT 1.13 NM TO RW17.  
 WAAS CHANNEL # 70325  
 REFERENCE PATH ID: W17A  
 LTP HAE: 395.8 M

**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
LPV DA	1637	3/4	250	1637	3/4	250	1637	3/4	250	1637	3/4	250				
LNAV MDA	1800	3/4	413	1800	3/4	413	1800	1	413	1800	1	413				
CIRCLING	1820	1	433	1840	1	453	2040	1 3/4	653	2160	2 1/2	773				



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT-C AND P-NOTAM FOR AMDT 1B INTO FORM – IAW 8260-19I PARA 8-3-4.C (3).
2. PROFILE LINE 5: UPDATED 250 HAT FROM "0.63" TO 0.62" - IAW 8260-19I PARA 8-6-7 F.
3. PBN REQUIREMENTS NOTE: UPDATED FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I, PARA 8-6-8B(2).
4. NOTES: ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CATS C AND D VISIBILITY TO 1 1/8 SM" - IAW 8260.3E TABLE 3-3-1.
5. NOTES: ADDED "CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS" - IAW 8260.3E TABLE 3-3-1.
6. ADDITIONAL FLIGHT DATA: REMOVED "CHART 1669 TREE 315248N/0985642W" - IAW 8260.19I 8-6-10.C.
7. ADDITIONAL FLIGHT DATA: UPDATED CHART VDP AT FROM "1.14 NM TO RW17\*" TO "CHART VDP AT 1.13 NM TO RW17" - IAW 8260-19I PARA 8-6-10 M.
8. ADDITIONAL FLIGHT DATA: DELETED "LNAV ONLY" - IAW 8260.19I IMPLEMENTATION MEMORANDUM UPDATED 12/21/2020, ATTACHMENT 3, CHAPTER 4 PARA 4.
9. ALTERNATE: UPDATED FROM "CAT D 800-2 1/2. NA WHEN LOCAL WEATHER NOT AVAILABLE" TO "STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19I PARA 8-6-11.
10. MINIMUMS: UPDATED CAT A CMDA/HAA FROM "1840/453" TO "1820/433" - NEW CONTROLLING OBSTACLE.
11. MINIMUMS: UPDATED CAT C CMDA/HAA FROM "1980/593" TO "2040/653" AND VISIBILITY FROM "1 1/2" TO "1 3/4" - NEW CONTROLLING OBSTACLE AND IAW 8260.3E TABLE 3-3-1.
12. FAS DATA: UPDATED CRC REMAINDER FROM "18CA9E6A" TO "D70746B3" - FPAP LAT/LONG UPDATED FROM "314637.5100N/0985717.1100W" TO "314637.5040N/0985717.1135W".

**COORDINATED WITH:**

A4A   
  ALPA   
  AOPA   
  APA   
  HAI   
  NBAA   
 OTHER: ZFW, FTW FSS, AMGR

**FLIGHT CHECKED BY**

BRIAN HARRELSON

**ROBERT G HAMILTON**  
Sep 12, 2024

**OFFICE**

FPO

**DATE**

07/09/2024

**DEVELOPED BY**

ROBERT G HAMILTON (MATTHEW W.TOWNSEND)

*Digitally signed by*  
**ROBERT G HAMILTON**  
Sep 12, 2024

**OFFICE**

AJV-A433

**DATE**

02/21/2024

**APPROVED BY**

ROBERT G HAMILTON

*Digitally signed by*  
**ROBERT G HAMILTON**  
Sep 12, 2024

**OFFICE**

AJV-A433

**DATE**

09/05/2024

**TITLE**  
MANAGER



AIRPORT ID  
BWD

PROCEDURE NAME  
RNAV (GPS) RWY 17

ORIGINAL/AMENDMENT  
1D

CITY  
BROWNWOOD

STATE  
TX

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBWD
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	314806.7880N
LTP/FTP LONGITUDE	0985718.2830W
LTP/FTP ELLIPSOIDAL HEIGHT	+03958
FPAP LATITUDE	314637.5040N
FPAP LONGITUDE	0985717.1135W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1040
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER D70746B3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+04220
FPAP ORTHOMETRIC HEIGHT	+04220



**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	RNAV (GPS) RWY 17	1D	BROWNWOOD	TX	1387	RNAV

**PART A: OBSTRUCTION DATA SEGMENTS**

**STRAIGHT-IN AREA**

**FROM** 085/30 CW 265/30 **TO** MUSRE

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<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 (48-003924)	321109.89N/0991742.40W	2471	50	20	2C	1000				AT529	4000
TERRAIN	321551.00N/0991727.00W	2186 (2200)								AS1500	3700

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**LEFT BASE AREA**

**FROM** 265/30 CW 355/30 **TO** ZIHMY

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<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 (48-008778)	315452.00N/0984149.00W	2188	250	50	4D	1000				AT812	4000
TERRAIN	315709.00N/0985233.00W	1976 (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**  
RNAV (GPS) RWY 17

**AMDT NO.**  
1D

**CITY**  
BROWNWOOD

**STATE**  
TX

**AIRPORT ELEVATION**  
1387

**FACILITY**  
RNAV

**RIGHT BASE AREA**

**FROM**  
355/30 CW 085/30

**TO**  
OHSOJ

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS

<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 (48-004451)	315428.00N/0993649.00W	2550	500	50	5D	1000				AT450	4000
TERRAIN	315609.00N/0993018.00W	2071 (2100)								AS1500	3600

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INITIAL**

**FROM**  
ZIHMY

**TO**  
MUSRE

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS  
1.00                      5.00

<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	315709.00N/0985233.00W	2176	164	98	4E	1000				AT824	4000
TERRAIN	315709.00N/0985233.00W	1976 (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**  
RNAV (GPS) RWY 17

**AMDT NO.**  
1D

**CITY**  
BROWNWOOD

**STATE**  
TX

**AIRPORT ELEVATION**  
1387

**FACILITY**  
RNAV

**INITIAL**

**FROM**  
OHSOJ

**TO**  
MUSRE

**RNP**  
1.00

**DISTANCE**  
5.00

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	320051.00N/0985600.00W	1887	164	98	4E	1000				AT1113	4000
TERRAIN	320051.00N/0985600.00W	1687 (1700)								AS1500	3200

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM**  
MUSRE (IF/IAF)

**TO**  
INUWE

**RNP**  
1.00

**DISTANCE**  
6.32

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
AAO	315815.00N/0985248.00W	2149	50	20	2C	500				AT351	3000
TERRAIN	315815.00N/0985248.00W	1949 (1900)								AS1000	2900

**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**  
RNAV (GPS) RWY 17

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1D

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**STATE**  
TX

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1387

**FACILITY**  
RNAV

**FINAL: LPV**

**FROM**  
INUWE

**TO**  
RW17

**RNP**  
0.30

**DISTANCE**  
4.84

**PAT**

**MAP**  
DA

**HAT**  
250

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
TREE (48-117100)	314819.88N/0985715.18W	1418	20	3	1A		33.55:1				1637

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV**

**FROM**  
INUWE

**TO**  
CUBKI/2.00 NM TO RW17

**RNP**  
0.30

**DISTANCE**  
2.84

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
TREE	315248.00N/0985642.00W	1669	250	20	4C	250				DG141	2060

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV STEPDOWN**

**FROM**  
CUBKI/2.00 NM TO RW17

**TO**  
RW17

**RNP**  
0.30

**DISTANCE**  
2.00

**PAT**

**MAP**  
RW17

**HAT**  
413

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
TREE	314918.00N/0985715.00W	1539	50	20	2C	250					1800

**COMPUTATIONS**

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

**SEGMENT REMARKS:**





**AIRPORT ID**  
BWD

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RNAV (GPS) RWY 17

**AMDT NO.**  
1D

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**STATE**  
TX

**AIRPORT ELEVATION**  
1387

**FACILITY**  
RNAV

**HOLD-IN-LIEU OF PT**

**FROM**  
MUSRE **TO**  
P-5

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
P-5

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	320303.90N/0985509.60W	2143	1000	3	6A	1000				AT857	4000
TERRAIN	320303.90N/0985509.60W	1943 (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: LPV**

**FROM**  
DA **TO**  
PEQIS

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
0.30 1447

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
TOWER (48-174085)	314003.58N/0985644.03W	1774	250	50	4D	1000					2800
TERRAIN	313833.00N/0985930.00W	1597 (1600)								AS1500	3100

**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**  
RNAV (GPS) RWY 17

**AMDT NO.**  
1D

**CITY**  
BROWNWOOD

**STATE**  
TX

**AIRPORT ELEVATION**  
1387

**FACILITY**  
RNAV

**MISSED APPROACH: LNAV**

**FROM**  
RW17 **TO**  
PEQIS

**RNP**  
0.30-1.00

**DISTANCE**

**PAT**

**MAP**

**HAT**

**HMAS**  
1700

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
TOWER (48-174085)	314003.58N/0985644.03W	1774	250	50	4D	1000					2800
TERRAIN	313833.00N/0985930.00W	1597 (1600)								AS1500	3100

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**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	250	10	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/ESA**

**CENTER** **RADIUS**

**REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**



**AIRPORT ID**  
BWD

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TX

**AIRPORT ELEVATION**  
1387

**FACILITY**  
RNAV

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

ZFW ARTCC, ZFW FSS

**WX SERVICE**  
AWOS-3

**LOCATION**  
BWD

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
BWD

**DISTANCE**  
0

**SERVICE-A**  
Y

**ADJUSTMENTS**  
0

**BACK-UP WX SERVICE**  
AWOS-3

**LOCATION**  
MKN

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
MKN

**DISTANCE**  
19.77

**SERVICE-A**  
Y

**ADJUSTMENTS**  
48

**WX REMARKS:**

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

**PRIMARY NAVAID**

**MONITOR POINT**

**HRS OPERATION**

**CAT**

<b>APPROACH AND RUNWAY LIGHTING SYSTEM</b>	<b>RUNWAY MARKINGS</b>	<b>RUNWAY VISUAL RANGE</b>
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	

**GLIDESLOPE ANGLE**  
3.00

**ELEV RWY THRESHOLD**  
1384.4

**TCH**  
52.0

**ELEV GS ANTENNA**

**DISTANCE FROM RWY**

**VGSI ANGLE**  
3.00

**TCH**  
55.1

**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD  
ON CENTERLINE

FT FROM THRESHOLD  
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

**CRITICAL TEMPERATURES**

**CRITICAL LOW**

**CRITICAL HIGH**

**ACT**

**APT ISA**

**CRITICAL TEMPERATURE REMARKS:**

**"VISUAL PORTION OF FINAL" PENETRATIONS**

FINAL TYPE	LPV, LNAV
34:1	
1411 TREE (48-038095) 314816.81N/0985721.56W (2.61)	1418 TREE (48-117100) 314819.88N/0985715.18W (0.66)

**PENETRATIONS REMARKS:**

QUALITY  
34  
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.

**CONTINGENT ALTIMETER NOTES:**

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MKN ALTIMETER SETTING: INCREASE LPV DA TO 1685 FEET; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CATS C AND D 1/4 SM.  
VDP NA WHEN USING MKN ALTIMETER SETTING.  
FOR INOPERATIVE ALS WHEN USING MKN ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM.

LNAV/VNAV NOT DEVELOPED PER CENTRAL FPT REQUEST.

ASSUMED VEGETATION PER FPT 50FT FOR CIRCLING AND FINAL AND MISSED.  
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**

<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1000FT POINT</b>	<b>3.65</b>
<b>WIDTH OF</b>	<b>FINAL</b>	<b>SEGMENT AT 1000FT POINT</b>	<b>1.82</b>
<b>TRUE COURSE OF</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>179.36</b>
<b>HIGH TERRAIN IN</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>1600</b>
<b>DISTANCE FROM</b>	<b>FAF</b>	<b>TO 1500FT POINT</b>	<b>5.10</b>
<b>WIDTH OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT AT 1500FT POINT</b>	<b>7.77</b>
<b>TRUE COURSE OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>179.36</b>
<b>HIGH TERRAIN IN</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>1900</b>

**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** 315257.83N/0985722.09W  
**FIX NAME COORDINATES**

**REMARKS**

NO ADDITIONAL AIRSPACE REQUIRED.

**PART E: PREPARED BY**

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**OFFICE**  
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**DATE**  
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