

INSTRUMENT APPROACH PROCEDURE CHARTS

**A** IFR ALTERNATE AIRPORT MINIMUMS

Pilots must review the IFR Alternate Minimums Notes to determine alternate airport suitability.

**A**NA designation on the approach chart means that pilots may not use that approach as an alternate due to unmonitored facility, absence of weather reporting service, or lack of adequate navigation coverage. Approaches with the **A**NA designation are not listed in this section. **A** designation on the approach chart indicates that the approach procedure has non-standard minimums (for aircraft other than helicopters) or restrictions (for all users) for its use as an alternate.

Alternate Minima (ref: 14 CFR 91.169)

	Precision Approach	Non-Precision Approach
Standard	<b>600-2</b>	<b>800-2</b>
<b>A</b> Non-Standard or restrictions	As indicated below	As indicated below
Helicopters	For the selected approach: Ceiling: 200' above published ceiling Visibility: the greater of 1 SM visibility or the published visibility	
US Military (USA/USN/USAF)	See Service Regulations	

**Note:** For alternate airport flight planning purposes, precision approach operations include: ILS, PAR, and GLS, and Non-Precision approach operations include: NDB, VOR, LOC, TACAN, LDA, SDF, ASR, RNAV (GPS) and RNAV (RNP).

NAME ALTERNATE MINIMUMS

**ALICE, TX**

ALICE INTL (ALI).....**LOC/DME Rwy 31<sup>12</sup>**  
**RNAV (GPS) Rwy 13<sup>1</sup>**  
**RNAV (GPS) Rwy 31<sup>12</sup>**  
**VOR Rwy 31<sup>12</sup>**  
**VOR-A<sup>3</sup>**

<sup>1</sup>NA when local weather not available.  
<sup>2</sup>Category D, 800-2¼.  
<sup>3</sup>Categories A, B, 900-2; Category C, 900-2¼, Category D, 900-3.

**ALPINE, TX**

ALPINE-CASPARIS  
MUNI (E38).....**RNAV (GPS) Rwy 19<sup>1</sup>**  
**RNAV (GPS) Rwy 23<sup>2</sup>**

<sup>1</sup>Category B, 1000-2; Category C, 1300-3.  
<sup>2</sup>Category A, 900-2; Category B, 1000-2; Category C, 1300-3.

**AUSTIN, TX**

AUSTIN  
EXEC (EDC).....**RNAV (GPS) Rwy 13**  
**RNAV (GPS) Rwy 31**

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**AUSTIN, TX (CON'T)**

AUSTIN-BERGSTROM  
INTL (AUS).....**ILS or LOC Rwy 18L<sup>1</sup>**  
**ILS or LOC Rwy 36R<sup>1</sup>**  
**RNAV (GPS) Y Rwy 18L<sup>2</sup>**  
**RNAV (GPS) Y Rwy 18R<sup>2</sup>**  
**RNAV (GPS) Y Rwy 36L<sup>2</sup>**  
**RNAV (GPS) Y Rwy 36R<sup>2</sup>**

<sup>1</sup>LOC, Category E, 1000-3.  
<sup>2</sup>Category E, 1000-3.

**SAN MARCOS**

RGNL (HYI).....**NDB Rwy 13<sup>1</sup>**  
**RNAV (GPS) Rwy 8<sup>2</sup>**  
**RNAV (GPS) Rwy 13<sup>2</sup>**  
**RNAV (GPS) Rwy 17<sup>2</sup>**  
**RNAV (GPS) Rwy 26<sup>2</sup>**  
**RNAV (GPS) Rwy 31<sup>2</sup>**  
**RNAV (GPS) Rwy 35<sup>2</sup>**

NA when local weather not available.  
<sup>1</sup>Category D, 800-2¼.  
<sup>2</sup>Category D, 800-2¼; Category E, 800-2¼.

**BEEVILLE, TX**

BEEVILLE MUNI (BEA).....**RNAV (GPS) Rwy 30**  
Category C, 800-2½.

**BIG LAKE, TX**

REAGAN COUNTY (E41).....**RNAV (GPS) Rwy 16**  
NA when local weather not available.  
Category C, 800-2¼.

NAME ALTERNATE MINIMUMS

**BIGGS AAF (KBIF)**

FORT BLISS, TX.....RNAV (GPS) Rwy 22  
NA when R-5103 in use.

**BRADY, TX**

CURTIS FLD (BBD).....RNAV (GPS) Rwy 17  
RNAV (GPS) Rwy 35  
NA when local weather not available.

**BROWNSVILLE, TX**

BROWNSVILLE/SOUTH PADRE ISLAND  
INTL (BRO).....ILS or LOC Rwy 13<sup>1</sup>  
LOC BC Rwy 31<sup>1</sup>  
RNAV (GPS) Rwy 13  
RNAV (GPS) Rwy 18  
RNAV (GPS) Rwy 31  
VOR or TACAN-A

NA when local weather not available.  
<sup>1</sup>NA when control tower closed.

**BROWNWOOD, TX**

BROWNWOOD  
RGNL (BWD).....LOC Rwy 17  
RNAV (GPS) Rwy 17  
VOR Rwy 35

NA when local weather not available.  
Category D, 800-2 $\frac{1}{4}$ .

**BURNET, TX**

BURNET MUNI KATE CRADDOCK  
FLD (BMQ).....RNAV (GPS) Rwy 1  
RNAV (GPS) Rwy 19  
NA when local weather not available.

**CASTROVILLE, TX**

CASTROVILLE  
MUNI (CVB).....RNAV (GPS) Rwy 16  
RNAV (GPS) Rwy 34

NA when local weather not available.  
Category C, 900-2 $\frac{1}{4}$ .

**COLEMAN, TX**

COLEMAN MUNI (COM).....RNAV (GPS) Rwy 15  
RNAV (GPS) Rwy 33<sup>1</sup>

NA when local weather not available.  
<sup>1</sup>Category C, 800-2 $\frac{1}{4}$ .

**COMANCHE, TX**

COMANCHE  
COUNTY-CITY (MKN).....RNAV (GPS) Rwy 17  
RNAV (GPS) Rwy 35

NA when local weather not available.

NAME ALTERNATE MINIMUMS

**CORPUS CHRISTI, TX**

CORPUS CHRISTI  
INTL (CRP).....ILS or LOC Rwy 13<sup>1</sup>  
ILS or LOC Rwy 36<sup>24</sup>  
LOC Rwy 31<sup>2</sup>  
RNAV (GPS) Rwy 18<sup>3</sup>  
RNAV (GPS) X Rwy 31<sup>3</sup>  
RNAV (GPS) Y Rwy 13<sup>3</sup>  
RNAV (GPS) Y Rwy 31<sup>3</sup>  
RNAV (GPS) Y Rwy 36<sup>3</sup>  
VOR or TACAN Rwy 18<sup>34</sup>

<sup>1</sup>ILS, LOC, Category C, 800-2 $\frac{1}{4}$ ;  
Category D, 800-2 $\frac{1}{4}$ ; Category E, 800-2 $\frac{1}{4}$ .  
<sup>2</sup>LOC, Category C, 800-2 $\frac{1}{4}$ ; Category D, 800-2 $\frac{1}{4}$ ;  
Category E, 800-2 $\frac{1}{4}$ .  
<sup>3</sup>Category C, 800-2 $\frac{1}{4}$ ; Category D, 800-2 $\frac{1}{4}$ ;  
Category E, 800-2 $\frac{1}{4}$ .  
<sup>4</sup>NA when local weather not available.

**COTULLA, TX**

COTULLA-LA SALLE  
COUNTY (COT).....VOR-A  
NA when local weather not available.

**DEL RIO, TX**

DEL RIO INTL (DRT).....RNAV (GPS) Rwy 13<sup>1</sup>  
VOR-A<sup>23</sup>

NA when local weather not available.  
<sup>1</sup>Category D, 800-2 $\frac{1}{4}$ .  
<sup>2</sup>NA when Del Rio APP CON closed.  
<sup>3</sup>Category C, 800-2 $\frac{1}{4}$ . Category D, 800-2 $\frac{1}{4}$ .

**EDINBURG, TX**

SOUTH TEXAS INTL AT  
EDINDBURG (EBG).....RNAV (GPS) Rwy 14  
RNAV (GPS) Rwy 32  
Category D, 800-2 $\frac{1}{4}$ .

**EL PASO, TX**

EL PASO INTL (ELP).....ILS or LOC Rwy 22<sup>1</sup>  
LOC/DME Rwy 4<sup>2</sup>  
RADAR-1<sup>34</sup>  
RNAV (GPS) Rwy 26R<sup>2</sup>  
RNAV (GPS) X Rwy 4<sup>2</sup>  
RNAV (GPS) Y Rwy 22<sup>2</sup>  
RNAV (GPS) Y Rwy 26L<sup>2</sup>  
VOR Rwy 26L<sup>3</sup>

<sup>1</sup>LOC, Category D, 800-2 $\frac{1}{4}$ ; Category E, 800-2 $\frac{1}{4}$ .  
<sup>2</sup>Category D, 800-2 $\frac{1}{4}$ .  
<sup>3</sup>Category D, 800-2 $\frac{1}{4}$ ; Category E, 800-2 $\frac{1}{4}$ .  
<sup>4</sup>NA when local weather not available.

**FALFURRIAS, TX**

BROOKS  
COUNTY (BKS).....RNAV (GPS) Rwy 17  
RNAV (GPS) Rwy 35  
Category C, 900-2 $\frac{1}{4}$ ; Category D, 900-2 $\frac{1}{4}$ .

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NAME ALTERNATE MINIMUMS

**MC ALLEN, TX**

MC ALLEN MILLER

INTL (MFE).....ILS or LOC Rwy 14<sup>1</sup>  
 ILS or LOC Rwy 32<sup>2</sup>  
 RNAV (GPS) Rwy 14<sup>2</sup>  
 RNAV (GPS) Rwy 32<sup>2</sup>  
 VOR Rwy 14<sup>2</sup>  
 VOR Rwy 32<sup>2</sup>

NA when local weather not available.

<sup>1</sup>ILS, Category D, 700-2¼; LOC, Category D, 800-2¼.<sup>2</sup>Category D, 800-2¼.**MIDLAND, TX**

MIDLAND

AIRPARK (MDD).....RNAV (GPS) Rwy 25<sup>1</sup>  
 RNAV (GPS) Rwy 34  
 VOR Rwy 25<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category D, 900-3.

MIDLAND INTL AIR AND SPACE

PORT (MAF).....ILS or LOC Rwy 10<sup>12</sup>  
 VOR or TACAN Rwy 34L<sup>3</sup>  
 VOR or TACAN Rwy 16R<sup>3</sup>

<sup>1</sup>ILS, Category D, 700-2; Category E, 800-2½;

LOC, Category E, 800-2½.

<sup>2</sup>NA when control tower closed.<sup>3</sup>Category E, 800-2½.**NEW BRAUNFELS, TX**

NEW BRAUNFELS

NTL (BAZ).....RNAV (GPS) Rwy 13  
 RNAV (GPS) Rwy 17  
 RNAV (GPS) Rwy 31  
 RNAV (GPS) Rwy 35

NA when local weather not available.

**ODESSA, TX**

ODESSA-SCHLEMEYER

FLD (ODO).....RNAV (GPS) Rwy 11  
 RNAV (GPS) Rwy 20  
 RNAV (GPS) Rwy 29  
 VOR-A

NA when local weather not available.

**PECOS, TX**

PECOS MUNI (PEQ).....RNAV (GPS) Rwy 14  
 RNAV (GPS) Rwy 32

NA when local weather not available.

Category C, 800-2¼; Category D, 800-2½.

**PLEASANTON, TX**

PLEASANTON

MUNI (PEZ).....RNAV (GPS) Rwy 34

NA when local weather not available.

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NAME ALTERNATE

**PORT ARANSAS, TX**

MUSTANG

BEACH (RAS).....RNAV (GPS) Rwy 12  
 RNAV (GPS) Rwy 30

NA when local weather not available.

**PORT ISABEL, TX**

PORT ISABEL-CAMERON

COUNTY (PIL).....RNAV (GPS) Rwy 13

NA when local weather not available.

**ROBSTOWN, TX**

NUECES

COUNTY (RBO).....RNAV (GPS) Rwy 13  
 RNAV (GPS) Rwy 31

NA when local weather not available.

**ROCKPORT, TX**

ARANSAS

COUNTY (RKP).....RNAV (GPS) Rwy 14  
 RNAV (GPS) Rwy 18  
 RNAV (GPS) Rwy 32  
 RNAV (GPS) Rwy 36  
 VOR or TACAN-A<sup>1</sup>

NA when local weather not available.

<sup>1</sup>Category C, 800-2¼.**ROCKSPRINGS, TX**

EDWARDS

COUNTY (ECU).....VOR Rwy 14

NA when local weather not available.

**SAN ANGELO, TX**

SAN ANGELO RGNL/

MATHIS FLD (SJT).....ILS Y or LOC Y Rwy 3<sup>12</sup>  
 NDB Rwy 3<sup>3</sup>  
 RADAR-1<sup>34</sup>  
 RNAV (GPS) Rwy 3<sup>5</sup>  
 RNAV (GPS) Rwy 18<sup>5</sup>  
 RNAV (GPS) Rwy 21<sup>5</sup>  
 RNAV (GPS) Rwy 36<sup>5</sup>  
 VOR/DME or TACAN Rwy 3<sup>5</sup>

<sup>1</sup>LOC, Category D, 800-2½; Category E, 800-2¼.<sup>2</sup>LOC, NA when control tower closed.<sup>3</sup>NA when control tower closed.<sup>4</sup>Category D, 800-2½.<sup>5</sup>Category D, 800-2½; Category E, 800-2¼.

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NAME ALTERNATE MINIMUMS

**SAN ANTONIO, TX**

BOERNE STAGE  
FLD (5C1)..... **RNAV (GPS) Rwy 17**  
**RNAV (GPS) Rwy 35**

NA when local weather not available.

**SAN ANTONIO**

INTL (SAT)..... **ILS or LOC Rwy 4<sup>1</sup>**  
**ILS or LOC Rwy 13R<sup>2</sup>**  
**ILS or LOC Rwy 31L<sup>3</sup>**  
**RNAV (GPS) Y Rwy 4<sup>4</sup>**  
**RNAV (GPS) Y Rwy 13R<sup>5</sup>**  
**RNAV (GPS) Y Rwy 22<sup>4</sup>**  
**RNAV (GPS) Y Rwy 31L<sup>4</sup>**

<sup>1</sup>ILS, LOC, Category D, 800-2¼.

<sup>2</sup>LOC, Category D, 800-2½.

<sup>3</sup>LOC, Category D, 800-2¼.

<sup>4</sup>Category D, 800-2¼.

<sup>5</sup>Categories A, B, 900-2; Category C, 900-2½;  
Category D, 900-2¼.

**SINTON, TX**

ALFRED C BUBBA  
THOMAS (T69)..... **RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 32**  
**VOR Rwy 14**

NA when local weather not available.

**TAYLOR, TX**

TAYLOR  
MUNI (T74)..... **RNAV (GPS) Rwy 17**  
**VOR Rwy 17**

NA when local weather not available.

**TEMPLE, TX**

DRAUGHON-MILLER CENTRAL  
TEXAS RGNL (TPL)..... **RNAV (GPS) Rwy 15**  
**RNAV (GPS) Rwy 33**

Category D, 800-2¼.

**UVALDE, TX**

GARNER FLD (UVA)..... **RNAV (GPS) Rwy 33**  
Category D, 800-2¼.

**VAN HORN, TX**

CULBERSON  
COUNTY (VHN)..... **RNAV (GPS) Rwy 21**  
Category D, 1700-3.

NAME ALTERNATE

**WACO, TX**

TSTC WACO (CNW)..... **NDB Rwy 35R<sup>12</sup>**  
**RNAV (GPS) Rwy 17L**  
**RNAV (GPS) Rwy 35R**

NA when local weather not available.

<sup>1</sup>NA when Waco Rgnl approach control closed.

<sup>2</sup>Category D, 800-2¼.

**MC GREGOR**

EXEC (PWG)..... **RNAV (GPS) Rwy 17**  
**RNAV (GPS) Rwy 35**

NA when local weather not available.

WACO RGNL (ACT)..... **ILS or LOC Rwy 19<sup>1</sup>**  
**RNAV (GPS) Rwy 1**  
**RNAV (GPS) Rwy 14**  
**RNAV (GPS) Rwy 19**  
**RNAV (GPS) Rwy 32**  
**VOR/DME Rwy 32**

NA when local weather not available.

<sup>1</sup>NA when control tower closed.

**WESLACO, TX**

MID  
VALLEY (TXW)..... **RNAV (GPS) Rwy 14**  
NA when local weather not available.  
Category D, 900-2¼.

**WINK, TX**

WINKLER  
COUNTY (INK)..... **RNAV (GPS) Rwy 13<sup>1</sup>**  
**RNAV (GPS) Rwy 31<sup>1</sup>**  
**VOR Rwy 13**

NA when local weather not available.

<sup>1</sup>Category C, 800-2¼.

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**RADAR INSTRUMENT APPROACH MINIMUMS**

**BIGGS AAF (KBIF)**, Fort Bliss, TX Amdt 7A (20198) (USA)

ELEV **3947**

RADAR - 124.15 307.0 **T** **A** NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
ASR <sup>1</sup>	22		AB	<b>4460-¾</b>	513	(600-¾)
			CDE	<b>4460-1</b>	513	(600-1)
<b>G</b> CIR <sup>2</sup>	22		AB	<b>4460-1</b>	513	(600-1)
			C	<b>4540-1½</b>	593	(600-1½)
			DE	<b>4540-2</b>	593	(600-2)

<sup>1</sup>When ALS inop, increase CAT AB vis to 1 mile, CAT CDE vis to 1¾ miles.

<sup>2</sup>CAT DE circling west of Rwy 4-22 NA.

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**RADAR INSTRUMENT APPROACH MINIMUMS**

# RADAR MINS

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N2

## RADAR INSTRUMENT APPROACH MINIMUMS

### CORPUS CHRISTI NAS (TRUAX FLD) (KNGP), Corpus Christi, TX

Amdt 2 21APR22 (22111) (USN)

ELEV 19

RADAR - (E) 6835 124.65 270.8 284.6 337.2 354.8

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
PAR <sup>1</sup>	13R <sup>2</sup> <sup>6</sup>	3.0°/47/877	ABCDE	113-¾	100	(100-¾)
	18	3.0°/50/913	ABCDE	119-½	100	(100-½)
	31L	3.0°/50/959	ABCDE	118-½	100	(100-½)
	36	3.0°/50/937	ABCDE	119-½	100	(100-½)
PAR W/O GS <sup>1</sup>	13R <sup>3</sup>		ABCDE	340-¾	327	(400-¾)
	18		ABCDE	340-1	321	(400-1)
	36		AB	400-1	381	(400-1)
			CDE	400-1½	381	(400-1½)
	31L		AB	420-1	402	(500-1)
		CDE	420-1½	402	(500-1½)	
ASR	18		AB	400-1	381	(400-1)
			CDE	400-1½	381	(400-1½)
	13R <sup>4</sup> <sup>7</sup>		AB	420-¾	407	(500-¾)
			CDE	420-1	407	(500-1)
			AB	420-1	401	(500-1)
	13L		CDE	420-1½	401	(500-1½)
			AB	500-1	483	(500-1)
	4 <sup>8</sup>		CDE	500-1½	483	(500-1½)
			AB	500-1	482	(500-1)
	31L		CDE	500-1½	482	(500-1½)
			AB	500-1	481	(500-1)
	31R		CDE	500-1½	481	(500-1½)
			AB	500-1	481	(500-1)
36		CDE	500-1½	481	(500-1½)	
		AB	500-1	481	(500-1)	
CIR <sup>5</sup>	All Rwys		AB	500-1	481	(500-1)
			C	540-1½	521	(600-1½)
			D	620-2	601	(700-2)
			E	620-2¼	601	(700-2¼)

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<sup>1</sup>No-NOTAM MP: PAR Mon 1300-1700Z++.

<sup>2</sup>When ALS inop, increase CAT ABCDE vis to ½ mile.

<sup>3</sup>When ALS inop, increase CAT ABCDE vis to 1 mile.

<sup>4</sup>When ALS inop increase CAT AB vis to 1 mile, CAT CDE to 1½ miles.

<sup>5</sup>Circling authorized only from ASR and PAR W/O GS.

<sup>6</sup>CAUTION: TCH (47 feet) is less than the min CAT II Precision TCH (50 feet).

<sup>7</sup>SDF at 2 NM from thld, 660' min.

<sup>8</sup>SDF at 3 NM from thld, 980' min.

SC-3

## RADAR INSTRUMENT APPROACH MINIMUMS

# RADAR MINS

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N2

# RADAR MINS

22139

N3

## RADAR INSTRUMENT APPROACH MINIMUMS

### EL PASO, TX EL PASO INTL (ELP)

Amdt 15C, 25FEB21 (21056) (FAA)

ELEV 3962

RADAR-1 124.25 298.85 **T A**

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
ASR	22		AB	4440/24	490	(500-½)	CDE	4440/50	490	(400-1)
	26L		ABCDE	4400-¾	438	(500-¾)				
	4		AB	4400/55	477	(500-1¼)	CDE	4400-1%	477	(500-1¾)
<b>C</b> CIRCLING	ALL RWY		AB	4440-1	478	(500-1)				
			C	4460-1½	498	(500-1½)	D	4680-2¼	718	(800-2¼)
			E	4700-2½	738	(800-2½)				

Circling NA for CATS D and E W of Rwy 4-22.

For inoperative ALS, increase S-22 CAT C/D/E visibility to 1 3/8 SM, increase S-26L CAT A/B visibility to 1 SM, and CAT E to 1 1/4 SM.

Caution: steeply rising terrain 4.5 NM west of airport.

### FORT HOOD/KILLEEN, TX Orig-A, 24MAY18 (18144) (FAA)

ELEV 1015

#### ROBERT GRAY AAF (GRK)

RADAR-1 - 120.075 323.15 **T A** NA

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
ASR	33		AB	1460-¾	465	(500-¾)	CDE	1460-1	465	(500-1)
	15		AB	1520/40	505	(600-¾)	CDE	1520/55	505	(600-1¼)
<b>C</b> CIRCLING	ALL RWY		AB	1540-1¼	525	(600-1¼)	C	1560-1½	545	(600-1½)
			D	1620-2	605	(700-2)	E	1740-2½	725	(800-2½)

Circling NA W of Rwy 15-33.

For inoperative ALS, increase ASR S-15 and ASR S-33 CATS C/D/E visibility to 1½ mile.

### FORT HOOD/KILLEEN, TX Orig-A, 24MAY18 (18144) (FAA)

ELEV 1015

#### ROBERT GRAY AAF (GRK)

RADAR-2 - 120.075 323.15 **T A** NA

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
PAR	33	3.00°/53/973	ABCDE	1208-½	213	(200-½)
	15	3.00°/51/1062	ABCDE	1215/24	200	(200-½)

For inoperative ALS, increase PAR S-15 CAT E visibility to RVR 4000 and PAR S-33 CAT E visibility to ¾ SM.

Rwy 15 VGSI and PAR glidepath not coincident (VGSI Angle 3.00/TCH 71).

Rwy 33 VGSI and PAR glidepath not coincident (VGSI Angle 2.77/TCH 52).

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## RADAR INSTRUMENT APPROACH MINIMUMS

# RADAR MINS

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N3

SC-3



**RADAR INSTRUMENT APPROACH MINIMUMS**

**KINGSVILLE NAS (KNQI)**, Kingsville, TX Amdt 1 05NOV20 (22083) (USN)

ELEV 50

**RADAR<sup>1</sup> - (E)** 121.05x 254.4x 263.075x 269.35x 305.2x 310.8x 349.0x 355.6x



	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>	
PAR <sup>2</sup>	35R <sup>3,4</sup>	3.0°/33/618	ABCDE	148-¼	100	(100-¼)	
	13L <sup>5</sup>	3.0°/34/633	ABCDE	149-½	100	(100-½)	
	13R <sup>6</sup>	3.0°/31/600	ABCDE	150-½	100	(100-½)	
	17L <sup>4</sup>	3.0°/33/613	ABCDE	149-½	100	(100-½)	
	17R <sup>5</sup>	3.0°/34/649	ABCDE	149-½	100	(100-½)	
	31L <sup>6</sup>	3.0°/31/578	ABCDE	147-½	100	(100-½)	
	31R <sup>7</sup>	3.0°/37/672	ABCDE	144-½	100	(100-½)	
PAR W/O GS <sup>2</sup>	35R <sup>8</sup>		ABCDE	380-¾	332	(400-¾)	
	17L <sup>9</sup>		ABCDE	360-1⅙	311	(400-1⅙)	
	17R <sup>9</sup>		ABCDE	360-1⅙	311	(400-1⅙)	
	31L <sup>10</sup>		ABCDE	360-1⅙	313	(400-1⅙)	
	31R <sup>10</sup>		ABCDE	380-1⅙	336	(400-1⅙)	
	13L		ABCDE	460-1⅙	411	(500-1⅙)	
	13R		AB	480-1⅙	430	(500-1⅙)	
			CDE	480-1¼	430	(500-1¼)	
	ASR	35R <sup>11</sup>		AB	420-½	372	(400-½)
				CDE	420-⅝	372	(400-⅝)
17L <sup>12</sup>			ABCDE	400-1	351	(400-1)	
17R <sup>12</sup>			ABCDE	400-1	351	(400-1)	
31L <sup>12</sup>			ABCDE	380-1	333	(400-1)	
31R <sup>12</sup>			ABCDE	380-1	336	(400-1)	
35L			ABCDE	420-1	372	(400-1)	
13L <sup>12</sup>			AB	460-1	411	(500-1)	
			CDE	460-1⅙	411	(500-1⅙)	
			AB	460-1	410	(500-1)	
		CDE	460-1⅙	410	(500-1⅙)		
CIR <sup>13</sup>	ALL RWYS <sup>14</sup>		AB	540-1	490	(500-1)	
			C	760-2	710	(800-2)	
			D	760-2¼	710	(800-2¼)	
			E	800-2¾	750	(800-2¾)	

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<sup>1</sup>Use landing/taxi lights when conducting apch during VMC. DASR-11 unmto dur hr of afld closure.

<sup>2</sup>No NOTAM MP: PAR 1300-1700Z++ Wed. Maint conducted next bus day if clsd on Wed.

<sup>3</sup>When ALS inop, increase vis to ½ mile.

<sup>4</sup>CAUTION: TCH (33 ft) is less than the min CAT II Precision TCH (50 ft).

<sup>5</sup>CAUTION: TCH (34 ft) is less than the min CAT II Precision TCH (50 ft).

<sup>6</sup>CAUTION: TCH (31 ft) is less than the min CAT II Precision TCH (50 ft).

<sup>7</sup>CAUTION: TCH (37 ft) is less than the min CAT II Precision TCH (50 ft).

<sup>8</sup>When ALS inop, increase vis to 1⅙ mile.

<sup>9</sup>Step Down Fix at 3 NM from RPI, cross at or above 1100 ft.

<sup>10</sup>Step Down Fix at 2 NM from RPI, cross at or above 740 ft.

<sup>11</sup>When ALS inop, increase vis to 1 mile.

<sup>12</sup>Step Down Fix at 2 NM from rwy, cross at or above 720 ft.

<sup>13</sup>Circling authorized only from PAR W/O GS and ASR.

<sup>14</sup>When circling from PAR W/O GS increase CAT AB vis to 1⅙ miles.

**RADAR INSTRUMENT APPROACH MINIMUMS**

# RADAR MINS

22139

N5

## RADAR INSTRUMENT APPROACH MINIMUMS

### SAN ANGELO, TX

Amdt 1B, 28FEB19 (21112) (FAA)

ELEV 1919

### SAN ANGELO RGNL/MATHIS FLD (SJT)

RADAR-1 125.35 354.1 **T A**

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
ASR	36		AB	2460-1	541	(600-1)	CDE	2460-1 $\frac{1}{4}$	541	(600-1 $\frac{1}{4}$ )
	18		AB	2500-1	592	(600-1)	CDE	2500-1 $\frac{1}{4}$	592	(600-1 $\frac{1}{4}$ )
<b>C</b> CIRCLING	ALL RWY		AB	2500-1	641	(700-1)	C	2500-1 $\frac{1}{4}$	641	(700-1 $\frac{1}{4}$ )
			D	2700-2 $\frac{1}{2}$	781	(800-2 $\frac{1}{2}$ )	E	2700-2 $\frac{1}{4}$	781	(800-2 $\frac{1}{4}$ )

Circling NA for Cat E west of Rwy 18-36.

When control tower closed, ASR NA.

Rwy 36 helicopter visibility reduction below  $\frac{3}{4}$  SM not authorized.

### WACO, TX

Amdt 1A, 11FEB10 (22139) (FAA)

ELEV 592

### MC GREGOR EXEC (PWG)

RADAR-1 127.65 352.0 **T**

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
ASR	17		AB	1020-1	430	(500-1)	C	1020-1 $\frac{1}{4}$	430	(500-1 $\frac{1}{4}$ )
			D	NA						
CIRCLING	ALL RWY		A	1040-1	448	(500-1)	B	1060-1	468	(500-1)
			C	1060-1 $\frac{1}{2}$	468	(500-1 $\frac{1}{2}$ )	D	NA		

### WACO, TX

Amdt 4, 11FEB10 (10042) (FAA)

ELEV 470

### TSTC WACO (CNW)

RADAR-1 127.65 227.125 **T A**

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HAA</u>	<u>CEIL-VIS</u>
ASR	17L		AB	1080- $\frac{1}{2}$	611	(700- $\frac{1}{2}$ )	C	1080-1 $\frac{1}{4}$	611	(700-1 $\frac{1}{4}$ )
			D	1080-1 $\frac{1}{2}$	611	(700-1 $\frac{1}{2}$ )				
CIRCLING	ALL RWY		AB	1080-1	610	(700-1)	C	1080-1 $\frac{1}{4}$	610	(700-1 $\frac{1}{4}$ )
			D	1080-2	610	(700-2)				

When Waco Regional approach control closed, ASR not authorized.

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## RADAR INSTRUMENT APPROACH MINIMUMS

# RADAR MINS

22139

N5

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**RADAR INSTRUMENT APPROACH MINIMUMS**

**WACO, TX**

Amdt 4, 23SEP10 (14317) (FAA)

ELEV 516

**WACO RGNL (ACT)**

**RADAR-1** 127.65 227.125 **T**

	<u>RWY</u>	<u>GP/TCH/RPI</u>	<u>DA/</u>			<u>HAT/</u>				
			<u>CAT</u>	<u>MDA-VIS</u>	<u>HAA</u>	<u>CAT</u>	<u>MDA-VIS</u>	<u>HAA</u>	<u>CEIL-VIS</u>	
ASR	19		ABC	880/24	376	(400-½)	D	880/50	376	(400-1)
	1		ABC	860-1	351	(400-1)	D	860-1¼	351	(400-1¼)
	14		AB	920-1	407	(500-1)	CD	920-1¼	407	(500-1¼)
	32		AB	1020-1	504	(600-1)	CD	1020-1½	504	(600-1½)
CIRCLING	ALL RWY		AB	1020-1	504	(600-1)	C	1020-1½	504	(600-1½)
			D	1080-2	564	(600-2)				

For inoperative MALSR increase S-19 CAT D visibility to RVR 6000.  
When control tower closed, ASR NA.

11 AUG 2022 to 08 SEP 2022

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**RADAR INSTRUMENT APPROACH MINIMUMS**


**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND**

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

22223

INSTRUMENT APPROACH PROCEDURE CHARTS


**IFR TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

## Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR takeoff minimums other than standard, are listed below. Takeoff Minimums and Departure Procedures apply to all runways unless otherwise specified. An entry may also be listed that contains only Takeoff Obstacle Notes. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are textually described below, or published separately as a graphic procedure. If the ODP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned an ODP, SID, or RADAR vector as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Some ODPs, which are established solely for obstacle avoidance, require a climb in visual conditions to cross the airport, a fix, or a NAVIAID in a specified direction, at or above a specified altitude. These procedures are called Visual Climb Over Airport (VCOA). To ensure safe and efficient operations, the pilot must verbally request approval from ATC to fly the VCOA when requesting their IFR clearance.

At some locations where an ODP has been established, a diverse vector area (DVA) may be created to allow RADAR vectors to be used in lieu of an ODP. DVA information will state that headings will be as assigned by ATC and climb gradients, when applicable, will be published immediately following the specified departure procedure.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard takeoff rules and establishes takeoff minimums for certain operators as follows: (1) For aircraft, other than helicopters, having two engines or less – one statute mile visibility. (2) For aircraft having more than two engines – one-half statute mile visibility. (3) For helicopters – one-half statute mile visibility. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) takeoff minima are published below. For military takeoff minima, refer to appropriate service directives.

**ALICE, TX****ALICE INTL (ALI)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 15APR04 (04106) (FAA)

**TAKEOFF OBSTACLE NOTES:**

**Rwy 17**, multiple poles beginning 601' from DER, 413' right to 340' left of centerline, up to 36' AGL/204' MSL.

Multiple trees beginning 205' from DER, 348' left to 317' right of centerline, up to 26' AGL/194' MSL.

**Rwy 26**, building 797' from DER, 366' left of centerline, 30' AGL/208' MSL.

Tree 812' from DER, 301' left of centerline, 27' AGL/205' MSL.

Rod on OL DME, 715' from DER, 258' right of centerline, 21' AGL/199' MSL.

Steel post 83' from DER, 344' right of centerline, 4' AGL/181' MSL.

**Rwy 31**, rod on OL DME 388' from DER, 256' left of centerline, 21' AGL/199' MSL.

Tree 439' from DER, 608' left of centerline, 16' AGL/194' MSL.

Steel post 2' from DER, 251' right of centerline, 164' AGL/181' MSL.

Tree 1067' from DER, 359' right of centerline, 28' AGL/206' MSL.

**Rwy 35**, windmill 1461' from DER, 164' left of centerline, 140' AGL/214' MSL.

Bush 330' from DER, 287' right of runway, 14' AGL/185' MSL.


**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND**

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

22223

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

22223

## ALPINE, TX

### ALPINE-CASPARIS MUNI (E38)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 6 27JAN22 (22027) (FAA)

DEPARTURE PROCEDURE:

Use ODKAE DEPARTURE.

TAKEOFF OBSTACLE NOTES:

**Rwy 1**, fence 9' from DER, 283' left of centerline, 9' AGL/4458' MSL.

Sign 13' from DER, 239' right of centerline, 4452' MSL.

Vehicle on road 85' from DER, 278' left of centerline, 15' AGL/4463' MSL.

Pole 811' from DER, 470' right of centerline, 4470' MSL.

**Rwy 5**, sign 13' from DER, 239' left of centerline, 4452' MSL.

Sign 18' from DER, 164' right of centerline, 4453' MSL.

Antenna, vehicle on road, pole beginning 21' from DER, 400' right of centerline, up to 25' AGL/4474' MSL.

Tree 190' from DER, 468' left of centerline, 11' AGL/4455' MSL.

Trees beginning 292' from DER, 475' left of centerline, up to 19' AGL/4462' MSL.

Poles, tree beginning 480' from DER, 187' right of centerline, up to 4478' MSL.

Pole 612' from DER, 626' left of centerline, 33' AGL/4472' MSL.

Pole 1060' from DER, 658' left of centerline, 4476' MSL.

**Rwy 19**, vehicle on road, sign, tree beginning 1' from DER, 165' left of centerline, up to 4526' MSL.

Terrain 57' from DER, 121' right of centerline, 4516' MSL.

Vehicle on road 74' from DER, 276' right of centerline, 15' AGL/4531' MSL.

Vehicle on road 230' from DER, 290' left of centerline, 4527' MSL.

Vehicles on road beginning 293' from DER, 277' right of centerline, up to 4535' MSL.

Vehicles on road beginning 379' from DER, 265' right of centerline, up to 4536' MSL.

Vehicle on road 420' from DER, 289' left of centerline, 4528' MSL.

Pole 536' from DER, 573' left of centerline, 4548' MSL.

Windmill, vehicle on road, poles, tree beginning 548' from DER, 183' left of centerline, up to 4554' MSL.

Poles beginning 1325' from DER, 60' right of centerline, up to 4561' MSL.

Poles beginning 1334' from DER, 279' left of centerline, up to 4556' MSL.

Pole 1565' from DER, 689' right of centerline, 4562' MSL.

Terrain 2.4 NM from DER, 2888' left of centerline, 4927' MSL.

## AUSTIN, TX

### AUSTIN-BERGSTROM INTL (AUS)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2A 22APR21 (21112) (FAA)

DEPARTURE PROCEDURE:

**Rwy 36L**, climb on heading 355° to 1700 before turning left.**Rwy 36R**, climb on heading 355° to 1300 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 18L**, lighting 10' from DER, 4' right of centerline, 1' AGL/475' MSL.

Trees beginning 491' from DER, 560' left of centerline, up to 43' AGL/499' MSL.

Tree 552' from DER, 641' right of centerline, 29' AGL/494' MSL.

Trees beginning 562' from DER, 487' left of centerline, up to 44' AGL/501' MSL.

Tree 617' from DER, 571' right of centerline, 37' AGL/495' MSL.

Trees beginning 643' from DER, 472' left of centerline, up to 517' MSL.

Tree 674' from DER, 647' right of centerline, 50' AGL/499' MSL.

Trees beginning 721' from DER, 523' right of centerline, up to 50' AGL/504' MSL.

Trees beginning 756' from DER, 495' right of centerline, up to 64' AGL/508' MSL.

Tree 1750' from DER, 523' right of centerline, 75' AGL/519' MSL.

Tree 1899' from DER, 810' right of centerline, 75' AGL/526' MSL.

Tree 2165' from DER, 458' right of centerline, 85' AGL/529' MSL.

**Rwy 18R**, lighting, sign beginning 10' from DER, 4' left of centerline, up to 2' AGL/489' MSL.

Tree 1006' from DER, 730' right of centerline, 519' MSL.

Trees beginning 1919' from DER, 541' left of centerline, up to 93' AGL/545' MSL.

**Rwy 36L**, lighting beginning 5' from DER, 5' right of centerline, up to 1' AGL/543' MSL.**Rwy 36R**, lighting 10' from DER, 5' left of centerline, 1' AGL/493' MSL.

Tree 816' from DER, 663' right of centerline, 528' MSL.

## AUSTIN EXEC (EDC)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 17AUG17 (21112) (FAA)

TAKEOFF MINIMUMS:

**Rwys 16, 34**, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 31**, pole and trees beginning 900' from DER, 258' left of centerline, up to 669' MSL.

Transmission line tower 1931' from DER, 911' right of centerline, 83' AGL/670' MSL.

Transmission line tower 2325' from DER, 878' right of centerline, 89' AGL/682' MSL.

Poles beginning 2362' from DER, 590' right of centerline, up to 113' AGL/707' MSL.

Transmission line tower 2568' from DER, 1159' left of centerline, 77' AGL/697' MSL.

Transmission line tower 3692' from DER, 437' left of centerline, 122' AGL/728' MSL.

Transmission line tower 4411' from DER, 1110' left of centerline, 135' AGL/749' MSL.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## AUSTIN, TX (CON'T)

### SAN MARCOS RGNL (HY1)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 17AUG17 (17229) (FAA)

##### DEPARTURE PROCEDURE:

**Rwy 31**, climb heading 306° to 1500 before turning right.

**Rwy 35**, climb heading 006° to 2500 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 8**, sign 1' from DER, 250' left of centerline, 3' AGL/583' MSL.

Tree 942' from DER, 259' left of centerline, 612' MSL.

**Rwy 13**, tree 2505' from DER, 194' right of centerline, 71' AGL/637' MSL.

Tree 2615' from DER, 90' right of centerline, 75' AGL/639' MSL.

Trees beginning 2639' from DER, 139' right of centerline, up to 80' AGL/646' MSL.

**Rwy 17**, bush 26' from DER, 74' left of centerline, 2' AGL/576' MSL.

**Rwy 26**, REIL 9' from DER, 90' right of centerline, 4' AGL/589' MSL.

Tree 1073' from DER, 684' right of centerline, 621' MSL.

Poles and trees beginning 1206' from DER, 394' right of centerline, up to 50' AGL/638' MSL.

**Rwy 31**, trees beginning 912' from DER, 613' right of centerline, up to 622' MSL.

Pole and tree beginning 1046' from DER, 630' right of centerline, up to 34' AGL/631' MSL.

Tree 1287' from DER, 718' left of centerline, 627' MSL.

**Rwy 35**, sign 25' from DER, 198' left of centerline, 3' AGL/597' MSL.

Tree 2562' from DER, 1113' left of centerline, 659' MSL.

Tree 3227' from DER, 162' left of centerline, 54' AGL/676' MSL.

Trees beginning 3540' from DER, 51' left of centerline, up to 52' AGL/687' MSL.

Tree 3655' from DER, 362' right of centerline, 54' AGL/692' MSL.

Trees beginning 3664' from DER, 11' right of centerline, up to 54' AGL/693' MSL.

Tree 3727' from DER, 81' left of centerline, 52' AGL/688' MSL.

Tree 3741' from DER, 94' left of centerline, 52' AGL/690' MSL.

Tree 3972' from DER, 40' left of centerline, 48' AGL/696' MSL.

Tree 4131' from DER, 37' right of centerline, 42' AGL/699' MSL.

Tree 4146' from DER, 33' right of centerline, 43' AGL/700' MSL.

Pole and trees beginning 4150' from DER, 15' right of centerline, up to 44' AGL/702' MSL.

Tree 4209' from DER, 10' left of centerline, 39' AGL/701' MSL.

Tree 4222' from DER, 73' right of centerline, 42' AGL/704' MSL.

Tree 4225' from DER, 25' left of centerline, 38' AGL/702' MSL.

Trees beginning 4229' from DER, 35' right of centerline, up to 47' AGL/708' MSL.

Trees beginning 4406' from DER, 160' right of centerline, up to 36' AGL/709' MSL.

Trees beginning 4426' from DER, 278' right of centerline, up to 36' AGL/711' MSL.

Pole, buildings, and trees beginning 4435' from DER, 123' right of centerline, up to 47' AGL/720' MSL.

Pole 4450' from DER, 16' left of centerline, 36' AGL/707' MSL.

Pole, telephone line, and trees beginning 4554' from DER, 10' right of centerline, up to 35' AGL/722' MSL.

Tree 4785' from DER, 1629' left of centerline, 716' MSL.

Trees beginning 5071' from DER, 1533' left of centerline, up to 49' AGL/738' MSL.

## BALLINGER, TX

### BRUCE FLD (E30)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 22SEP11 (22139) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, trees beginning 1902' from DER, 661' right of centerline, up to 100' AGL/1859' MSL.

**Rwy 35**, trees, building, and road beginning 29' from DER, 210' left of centerline, up to 100' AGL/1839' MSL.

Tree and poles beginning 887' from DER, 429' right of centerline, up to 37' AGL/1772' MSL.

## BEEVILLE, TX

### BEEVILLE MUNI (BEA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 26MAY16 (16147) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 18, 36**, NA-environmental.

**Rwy 30**, 300-2 or std. w/ min. climb of 239' per NM to 700.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 12**, pole, and trees beginning 64' from DER, 290' right of centerline, up to 29' AGL/272' MSL.

Tree, road, and pole beginning 153' from DER, 9' right of centerline, up to 33' AGL/275' MSL.

Trees beginning 756' from DER, 50' left of centerline, up to 279' MSL.

Trees and pole beginning 933' from DER, 30' right of centerline, up to 282' MSL.

**Rwy 30**, pole, tree, and building beginning 117' from DER, 290' left of centerline, up to 32' AGL/301' MSL.

Tree 1054' from DER, 574' left of centerline, 307' MSL.

Tree 1835' from DER, 452' right of centerline, 319' MSL.

Pole and trees beginning 1875' from DER, 287' left of centerline, up to 323' MSL.

Tree beginning 1907' from DER, 246' right of centerline, up to 53' AGL/339' MSL.

Trees and poles beginning 1934' from DER, 100' left of centerline, up to 336' MSL.

Tower 1.4 NM from DER, 2568' right of centerline, 230' AGL/542' MSL.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

22223

## BIG LAKE, TX

REAGAN COUNTY (E41)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 24MAY18 (18144) (FAA)

TAKEOFF MINIMUMS:

**Rwys 9, 27**, NA - environmental.

DEPARTURE PROCEDURE:

**Rwy 16**, fly heading 161° to 3300 before turning left.

TAKEOFF OBSTACLE NOTES:

**Rwy 16**, road 384' from DER, 603' right of centerline, 17' AGL/2716' MSL.

## BIGGS AAF (KBIF)

FORT BLISS, TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 16JUL20 (20198)

DEPARTURE PROCEDURE:

**Rwy 4**, climbing right turn to intercept ELP VORTAC R-330 to ELP, thence...

**Rwy 22**, climbing left turn to intercept ELP VORTAC R-240 to ELP, thence...

Continue climb in ELP holding pattern (hold east, left turns, 261° inbound) to cross ELP at or above MEA for route of flight before proceeding on course. Procedure NA for TACAN-only equipped aircraft.

TAKEOFF OBSTACLE NOTES:

**Rwy 22**, pole 1978' from DER, 840' left of cntrln, 3961' MSL.

Pole, 4413' from DER, 1663' right of cntrln, 131' AGL/4025' MSL.

DIVERSE VECTOR AREA (RADAR VECTORS)

AMDT 1 05NOV20 (20310) (FAA)

**Rwy 3**, heading as assigned by ATC; requires min. climb of 224' per NM to 10700.

**Rwy 21**, heading as assigned by ATC; requires min. climb of 237' per NM to 6800.

## BRADY, TX

CURTIS FLD (BBD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 14FEB08 (22139) (FAA)

TAKEOFF MINIMUMS:

**Rwys 8, 26**, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 17**, Light poles, trees, fence, terrain, and vehicle on road beginning 50' from DER, 362' left of centerline, up to 30' AGL/1827' MSL.

Trees beginning 17' from DER, 216' right of centerline, up to 30' AGL/1818' MSL.

## BROWNSVILLE, TX

BROWNSVILLE/SOUTH PADRE ISLAND INTL (BRO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 13OCT16 (16287) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13**, trees and bushes beginning 32' from DER, 399' left of centerline, up to 30' AGL/50' MSL.

Trees, bushes, pole and building beginning 751' from DER, 191' right of centerline, up to 44' AGL/64' MSL.

**Rwy 18**, trees and pole beginning 56' from DER, 61' left of centerline, up to 53' AGL/78' MSL.

Trees and poles beginning 1011' from DER, 96' right of centerline, up to 44' AGL/69' MSL.

**Rwy 31**, airplanes on taxiway beginning 371' from DER, 563' right of centerline, up to 45' AGL/64' MSL.

Trees beginning 1141' from DER, 567' right of centerline, up to 37' AGL/52' MSL.

**Rwy 36**, pole and trees beginning 695' from DER, 140' right of centerline, up to 56' AGL/71' MSL.

Trees beginning 719' from DER, 84' left of centerline, up to 63' AGL/78' MSL.

## BROWNWOOD, TX

BROWNWOOD RGNL (BWD)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20OCT11 (11293) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13**, trees beginning 1523' from DER, 844' right of centerline, up to 47' AGL/1412' MSL.

**Rwy 17**, trees beginning 797' from DER, 649' left of centerline, up to 33' AGL/1398' MSL.

Trees beginning 691' from DER, 640' right of centerline, up to 31' AGL/1393' MSL.

Building 737' from DER, 253' right of centerline, 29' AGL/1391' MSL.

**Rwy 35**, trees beginning 77' from DER, 272' left of centerline, up to 49' AGL/1411' MSL.

Trees beginning 771' from DER, 282' right of centerline, up to 46' AGL/1418' MSL.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND  
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**BURNET, TX****BURNET MUNI KATE CRADDOCK FLD (BMQ)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2 03JAN19 (22139) (FAA)

**DEPARTURE PROCEDURE:****Rwy 1**, climb heading 009° to 1700 before turning left.**TAKEOFF OBSTACLE NOTES:****Rwy 1**, trees beginning 502' from DER, 28' left of centerline, up to 55' AGL/1355' MSL.

Trees beginning 1160' from DER, 52' right of centerline, up to 55' AGL/1335' MSL.

Trees beginning 1502' from DER, 30' left of centerline, up to 55' AGL/1375' MSL.

**Rwy 19**, trees beginning 158' from DER, 63' left of centerline, up to 55' AGL/1286' MSL.

Trees beginning 1194' from DER, 15' right of centerline, up to 55' AGL/1315' MSL.

**CARRIZO SPRINGS, TX****DIMMIT COUNTY (CZT)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 24SEP87 (87267) (FAA)

**DEPARTURE PROCEDURE:****Rwy 31**, climb runway heading to 1200 prior to left turn to avoid 1114' antenna west of airport.**CASTROVILLE, TX****CASTROVILLE MUNI (CVB)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 15OCT15 (15288) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 16**, trees beginning 103' from DER, 361' left of centerline, up to 50' AGL/787' MSL.

Trees beginning 221' from DER, 347' right of centerline, up to 50' AGL/794' MSL.

**Rwy 34**, agriculture equipment beginning 1' from DER, 55' left of centerline, up to 15' AGL/790' MSL.

Road beginning 107' from DER, left and right of centerline, 15' AGL/789' MSL.

Trees beginning 1928' from DER, 5' right of centerline, up to 50' AGL/838' MSL.

Trees beginning 2322' from DER, 685' left of centerline, up to 50' AGL/851' MSL.

Pole 1483' from DER, 834' right of centerline, 37' AGL/816' MSL.

Pole 2255' from DER, 247' right of centerline, 52' AGL/831' MSL.

Antenna on silo 2239' from DER, 911' left of centerline, 88' AGL/870' MSL.

**COLEMAN, TX****COLEMAN MUNI (COM)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 10MAR11 (11069) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 15**, trees beginning 792' from DER, 67' right of centerline, up to 100' AGL/1774' MSL.**Rwy 33**, cranes beginning 1010' from DER, 28' left of centerline, up to 65' AGL/1774' MSL.

Cranes beginning 2285' from DER, 13' right of centerline, up to 65' AGL/1774' MSL.

**COMANCHE, TX****COMANCHE COUNTY-CITY (MKN)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 30JAN20 (20030) (FAA)

**DEPARTURE PROCEDURE:****Rwy 17**, climb heading 173° to 2000 before turning right.**TAKEOFF OBSTACLE NOTES:****Rwy 17**, building, terrain, tree, vehicle on road beginning 32' from DER, 260' right of centerline, up to 1395' MSL.

Terrain, trees, pole beginning 191' from DER, 310' left of centerline, up to 1411' MSL.

Trees, pole beginning 718' from DER, 20' left of centerline, up to 1425' MSL.

Pole, trees, building beginning 784' from DER, 25' right of centerline, up to 1419' MSL.

Trees, poles beginning 1090' from DER, 25' left of centerline, up to 1430' MSL.

Tree 1382' from DER, 280' right of centerline, 1422' MSL.

Trees, poles beginning 1451' from DER, 18' right of centerline, up to 1436' MSL.

Tree 2280' from DER, 70' right of centerline, 1438' MSL.

Tree 2291' from DER, 83' left of centerline, 1436' MSL.

Trees beginning 2334' from DER, 155' right of centerline, up to 1444' MSL.

Trees beginning 2378' from DER, 56' right of centerline, up to 1446' MSL.

Trees beginning 2379' from DER, 74' left of centerline, up to 1438' MSL.

Tree 2463' from DER, 294' right of centerline, 1448' MSL.

Trees, pole beginning 2467' from DER, 62' right of centerline, up to 1463' MSL.

Tree 2558' from DER, 19' left of centerline, 1443' MSL.

Tree 2757' from DER, 314' left of centerline, 1446' MSL.

Tree 3120' from DER, 344' left of centerline, 1461' MSL.

Trees beginning 3132' from DER, 246' left of centerline, up to 1466' MSL.

**CONT**

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**COMANCHE, TX (CON'T)****COMANCHE COUNTY-CITY (MKN) (CON'T)**

**Rwy 35**, tree 54' from DER, 354' left of centerline, 1406' MSL.  
 Tree 481' from DER, 345' right of centerline, 1404' MSL.  
 Trees beginning 489' from DER, 436' right of centerline, up to 1408' MSL.

**CORPUS CHRISTI, TX****CORPUS CHRISTI INTL (CRP)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 3 26MAY16 (16147) (FAA)

**TAKEOFF MINIMUMS:****Rwy 36**, 400-2¾ or std. w/ min. climb of 235' per NM to 600.**DEPARTURE PROCEDURE:****Rwy 31**, Climb heading 312° to 600 before turning left.**TAKEOFF OBSTACLE NOTES:****Rwy 13**, vehicles on road and wind cone beginning 2' from DER, 260' right of centerline, up to 53' MSL.

Vehicles on road 69' from DER, 337' right of centerline, 54' MSL.

**Rwy 18**, vehicles on road beginning 301' from DER, 103' left of centerline, up to 53' MSL.**Rwy 31**, vehicles on road 22' from DER, 65' right of centerline, 58' MSL.

Poles beginning 765' from DER, 616' right of centerline, up to 36' AGL/75' MSL.

**Rwy 36**, vehicles on road beginning 261' from DER, 444' right of centerline, up to 52' MSL.

Vehicles on road 490' from DER, 604' left of centerline, 54' MSL.

Light poles beginning 1217' from DER, 648' right of centerline, up to 31' AGL/74' MSL.

Light poles beginning 1241' from DER, 665' left of centerline, up to 31' AGL/74' MSL.

Light pole 1294' from DER, 799' right of centerline, 31' AGL/75' MSL.

Light pole 1330' from DER, 850' left of centerline, 32' AGL/75' MSL.

Refinery 1.9 NM from DER, 180' right of centerline, 318' AGL/344' MSL.

Tower 2.1 NM from DER, 3773' left of centerline, 401' AGL/423' MSL.

**CORPUS CHRISTI NAS (TRUAX FLD) (KNGP)****CORPUS CHRISTI, TX****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 24FEB22 (22055) (USN)

**TAKEOFF OBSTACLE NOTES:****Rwy 4**, terrain 380' from DER, 602' right of centerline, 33' MSL.

Terrain 617' from DER, 665' left of centerline, 34' MSL.

RADAR antenna 103' from DER, 417' left of centerline, 20' AGL/38' MSL.

**Rwy 13L**, pylon 3366' from DER, 451' left of centerline, 91' AGL/102' MSL.

Pylon 3459' from DER, 146' left of centerline, 86' AGL/111' MSL.

Pylon 4005' from DER, 371' left of centerline, 100' AGL/130' MSL.

Terrain 0' from DER, 500' left of centerline, 35' MSL.

Terrain 551' from DER, 644' right of centerline, 33' MSL.

Antenna 56' from DER, 406' right of centerline, 22' AGL/37' MSL.

**Rwy 13R**, terrain 190' from DER, 551' right of centerline, 33' MSL.

Terrain 380' from DER, 602' right of centerline, 33' MSL.

Terrain 384' from DER, 600' left of centerline, 34' MSL.

Antenna 606' from DER, 344' left of centerline, 22' AGL/37' MSL.

**Rwy 18**, pylon 4219' from DER, 1453' right of centerline, 97' AGL/129' MSL.

Pylon 4236' from DER, 1104' right of centerline, 87' AGL/127' MSL.

Pylon 4925' from DER, 381' left of centerline, 124' AGL/142' MSL.

Terrain 0' from DER, 500' right of centerline, 33' MSL.

**Rwy 22**, antenna 208' from DER, 473' left of centerline, 20' AGL/40' MSL.

Terrain 0' from DER, 500' left of centerline, 33' MSL.

**Rwy 31L**, terrain 116' from DER, 520' left of centerline, 30' MSL.

Terrain 190' from DER, 551' right of centerline, 32' MSL.

**Rwy 31R**, terrain 0' from DER, 500' right of centerline, 33' MSL.

Terrain 294' from DER, 500' right of centerline, 33' MSL.

**Rwy 36**, terrain 0' from DER, 500' left of centerline, 36' MSL.

Terrain 300' from DER, 580' left of centerline, 36' MSL.

Antenna 568' from DER, 415' right of centerline, 20' AGL/38' MSL.

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**COTULLA, TX****COTULLA-LA SALLE COUNTY (COT)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 18SEP14 (14261) (FAA)

**TAKEOFF OBSTACLE NOTES:**

**Rwy 13**, trees beginning 4' from DER, left and right of centerline, up to 20' AGL/465' MSL.  
 Vehicles on unlit roadway, beginning 55' from DER, 507' left of centerline, up to 15' AGL/482' MSL.  
 Trees beginning 142' from DER, left and right of centerline, up to 20' AGL/482' MSL.  
 Trees beginning 622' from DER, left and right of centerline, up to 24' AGL/480' MSL.  
 Pole 1002' from DER, 548' left of centerline, 33' AGL/488' MSL.  
**Rwy 31**, fence .08' from DER, 310' right of centerline, 3' AGL/476' MSL.  
 Trees beginning 19' from DER, left and right of centerline, up to 13' AGL/485' MSL.  
 Trees beginning 178' from DER, 311' right of centerline, up to 16' AGL/490' MSL.  
 Trees beginning 380' from DER, 386' right of centerline, up to 21' AGL/493' MSL.

**DEL RIO, TX****DEL RIO INTL (DRT)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 09SEP99 (99252) (FAA)

**DEPARTURE PROCEDURE:****Rwy 13**, climb to 1500 prior to left turn.**DEVINE, TX****DEVINE MUNI (23R)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 15DEC11 (11349) (FAA)

**TAKEOFF MINIMUMS:****Rwy 35**, 300-1 or std. w/min. climb of 265' per NM to 900.**TAKEOFF OBSTACLE NOTES:**

**Rwy 17**, trees beginning 281' from DER, 383' left of centerline, up to 50' AGL/759' MSL.  
 Trees beginning 1145' from DER, 233' left of centerline, up to 50' AGL/779' MSL.  
**Rwy 35**, trees beginning 4761' from DER, 128' right of centerline, up to 50' AGL/839' MSL.

**EAGLE PASS, TX****MAVERICK COUNTY MEML INTL (5T9)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 25SEP08 (22139) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 13**, vehicle on road 171' from DER, 393' right of centerline, 15' AGL/894' MSL.**EDINBURG, TX****SOUTH TEXAS INTL AT EDINBURG (EBG)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 28SEP06 (06271) (FAA)

**TAKEOFF MINIMUMS:**

CAUTION: Unmarked balloon and cable to 15000' MSL in R-6317.

**Rwy 14**, 276/37.9 NM.**Rwy 32**, 276/38.5 NM.**TAKEOFF OBSTACLE NOTES:**

**Rwy 14**, tree 1109' from DER, 525' right of centerline, 19' AGL/108' MSL.  
 Terrain 20' from DER, 312' right of centerline, 0' AGL/74' MSL.  
**Rwy 32**, multiple poles beginning 831' from DER, 53' right of centerline, up to 32' AGL/111' MSL.  
 Road 640' from DER, 671' right of centerline, 17' AGL/96' MSL.

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**EL PASO, TX****EL PASO INTL (ELP)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 8 20AUG15 (15232) (FAA)

**TAKEOFF MINIMUMS:****Rwys 8L, 26R, NA** - Environmental.**Rwy 26L**, std. w/min. climb of 490' per NM to 6300.**DEPARTURE PROCEDURE:****Rwy 4, 8R**, climbing right turn heading 120° and ELP R-150 to 9000, then proceed on course.**Rwy 22, 26L**, climbing left turn heading 120° and ELP R-150 to 9000, then proceed on course.**TAKEOFF OBSTACLE NOTES:****Rwy 4**, light poles beginning 1053' from DER, 746' left of centerline, 39' AGL/3986' MSL.**Rwy 26L**, light poles beginning 1248' from DER, 614' left of centerline, up to 60' AGL/3983' MSL.

Windssock 113' from DER, 295' right of centerline, 20' AGL/3943' MSL.

**Rwy 22**, utility pedestal 30' from DER, 205' right of centerline, 4' AGL/3918' MSL.**DIVERSE VECTOR AREA (RADAR VECTORS)**

ORIG 05NOV20 (20310) (FAA)

**Rwy 4**, heading as assigned by ATC; requires min. climb of 491' per NM to 8200.**Rwy 8R**, heading as assigned by ATC.**Rwy 22**, heading as assigned by ATC; requires min. climb of 272' per NM to 6800.**Rwy 26L**, heading as assigned by ATC; requires min. climb of 391' per NM to 5800.**FALFURRIAS, TX****BROOKS COUNTY (BKS)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 07MAY09 (09127) (FAA)

**TAKEOFF MINIMUMS:****Rwy 32**, 400-2¼ or std. w/ min. climb of 249' per NM to 600.**Rwy 35**, std. w/ min. climb of 250' per NM to 800, or 500-3 w/ min. climb of 242' per NM to 800, or 900-2½ for climb in visual conditions.**DEPARTURE PROCEDURE:****Rwy 35**, for climb in visual conditions: cross Brooks County Airport at or above 900 MSL before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 14**, vehicle on road, 29' from DER, 499' left of centerline, 15' AGL/129' MSL.

Trees beginning 149' from DER, 523' left of centerline, up to 40' AGL/154' MSL.

Trees beginning at DER, 415' right of centerline, up to 40' AGL/149' MSL.

**Rwy 17**, vehicle on road, at DER, 364' left of centerline, 15' AGL/119' MSL.

Trees beginning 15' from DER, 331' right of centerline, up to 40' AGL/149' MSL.

Trees beginning 165' from DER, 126' left of centerline, up to 17' AGL/129' MSL.

**Rwy 32**, road and trees beginning 587' from DER, 35' right of centerline, up to 40' AGL/149' MSL.

Tower 1.9 NM from DER, 987' left of centerline, 298' AGL/418' MSL.

**Rwy 35**, vehicle on road, at DER, 360' right of centerline, 15' AGL/118' MSL.

Tree 1010' from DER, 278' right of centerline, 29' AGL/138' MSL.

Tower 2.6 NM from DER, 426' right of centerline, 414' AGL/539' MSL.

**FORT HOOD/KILLEEN, TX****ROBERT GRAY AAF (GRK)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES****TAKEOFF OBSTACLE NOTES:****Rwy 33**, pole 974' from DER, 746' left of centerline, 35' AGL/1050' MSL.

Pole 1121' from DER, 746' left of centerline, 33' AGL/1048' MSL.

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## FORT STOCKTON, TX

### FORT STOCKTON-PECOS COUNTY (FST)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 27AUG09 (09239) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 7, 11, 16, 25, 29, 34**, NA-Environmental.

**Rwy 21**, 300-1 or std. w/ min. climb of 280' per NM to 3600.

##### DEPARTURE PROCEDURE:

**Rwy 21**, climb heading 208° to 3600 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 12**, tree 899' from DER, 310' right of centerline, 39' AGL/3049' MSL.

**Rwy 21**, brush beginning 110' from DER, 222' right of centerline, up to 20' AGL/3159' MSL.

Terrain beginning 124' from DER, 77' right of centerline, up to 3173' MSL.

Terrain beginning 56' from DER, 132' left of centerline, up to 3111' MSL.

Bush 236' from DER, 30' left of centerline, 6' AGL/3013' MSL.

Vehicle on road, 2017' from DER, 973' left of centerline, 17' AGL/3066' MSL.

**Rwy 30**, trees beginning 64' from DER, 354' left of centerline, up to 6' AGL/2995' MSL.

## FREDERICKSBURG, TX

### GILLESPIE COUNTY (T82)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 25APR19 (19115) (FAA)

##### DEPARTURE PROCEDURE:

**Rwy 14**, climb heading 141° to 2400 before turning right.

**Rwy 32**, climb heading 321° to 2400 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, trees beginning 32' from DER, 310' right of centerline, up to 1685' MSL.

Pole 202' from DER, 515' left of centerline, 30' AGL/1708' MSL.

Tree 325' from DER, 298' right of centerline, 1688' MSL.

Trees beginning 336' from DER, 439' left of centerline, up to 1715' MSL.

Trees beginning 437' from DER, 297' left of centerline, up to 1718' MSL.

Trees beginning 517' from DER, 323' left of centerline, up to 1723' MSL.

Tree 531' from DER, 328' right of centerline, 1694' MSL.

**Rwy 32**, building, trees beginning 9' from DER, 22' right of centerline, up to 31' AGL/1719' MSL.

Trees beginning 84' from DER, 7' left of centerline, up to 1726' MSL.

Tree 943' from DER, 490' right of centerline, 1720' MSL.

Pole 1028' from DER, 713' right of centerline, 45' AGL/1733' MSL.

Trees, poles beginning 1038' from DER, 113' right of centerline, up to 1735' MSL.

Trees beginning 1108' from DER, 117' left of centerline, up to 1731' MSL.

Trees, poles beginning 1201' from DER, 39' right of centerline, up to 1737' MSL.

Tree 1883' from DER, 432' right of centerline, 1742' MSL.

## GEORGE WEST, TX

### LIVE OAK COUNTY (8T6)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 23JUN16 (16175) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 31**, 700-3 or std. with a min. climb of 230' per NM to 1000.

##### DEPARTURE PROCEDURE:

**Rwy 13**, climb runway heading to 600 before turning right.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, Trees and poles beginning 20' from DER, left and right of centerline, up to 37' AGL/157' MSL.

Vehicles on road starting 200' from DER, 431' left of centerline, up to 15' AGL/138' MSL.

Trees 815' from DER, 613' right of centerline, 48' AGL/168' MSL.

**Rwy 31**, Building, trees and poles beginning 57' from DER, 484' right of centerline, up to 40' AGL/163' MSL.

Vehicles on road starting 85' from DER, left and right of centerline, up to 15' AGL/143' MSL.

Trees and poles beginning 365' from DER, 401' left of centerline, 50' AGL/180' MSL.

## GEORGETOWN, TX

### GEORGETOWN EXEC (GTU)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17AUG17 (22195) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 18**, 200-1¼ or std. w/min. climb of 250' per NM to 1000.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 11**, tree 11' from DER, 401' right of centerline, 786' MSL.

Poles and trees beginning 79' from DER, 136' right of centerline, up to 39' AGL/796' MSL.

Building 183' from DER, 477' left of centerline, 776' MSL.

Poles and buildings beginning 251' from DER, 424' left of centerline, up to 789' MSL.

Trees beginning 489' from DER, 226' left of centerline, up to 791' MSL.

Transmission towers, catenary, and telephone line beginning 2019' from DER, 27' left of centerline, up to 97' AGL/837' MSL.

Transmission tower and telephone line beginning 2271' from DER, 900' right of centerline, up to 826' MSL

CON'T

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## GEORGETOWN, TX (CON'T) GEORGETOWN EXEC (GTU) (CON'T)

**Rwy 11 (CON'T)**, tower 536' from DER, 515' right of centerline, 179' AGL/894' MSL.  
**Rwy 18, REIL**, vehicles on road, and tree beginning 30' from DER, 124' left of centerline, up to 784' MSL.  
 Tree 148' from DER, 465' left of centerline, 33' AGL/787' MSL.  
 Trees beginning 175' from DER, 444' right of centerline, up to 779' MSL.  
 Obstruction light on pole, poles, and trees beginning 300' from DER, 38' left of centerline, up to 792' MSL.  
 Obstruction light on pole, poles, and trees beginning 351' from DER, 19' right of centerline, up to 792' MSL.  
 Transmission tower 3137' from DER, 1036' left of centerline, 90' AGL/835' MSL.  
 Antenna on water tower 1 NM from DER, 1158' right of centerline, 163' AGL/932' MSL.  
**Rwy 29**, bushes beginning 10' from DER, 117' left of centerline, up to 792' MSL.  
 Terrain 15' from DER, 91' right of centerline, 790' MSL.  
 Terrain 15' from DER, 191' right of centerline, 792' MSL.  
 Trees beginning 89' from DER, 345' left of centerline, up to 806' MSL.  
 Bush and tree beginning 103' from DER, 351' right of centerline, up to 23' AGL/819' MSL.  
 Tree 205' from DER, 403' left of centerline, 811' MSL.  
 Tree 260' from DER, 562' right of centerline, 824' MSL.  
 Trees beginning 296' from DER, 291' left of centerline, up to 819' MSL.  
 Trees beginning 331' from DER, 162' right of centerline, up to 828' MSL.  
 Trees beginning 544' from DER, 22' right of centerline, up to 833' MSL.  
 Trees beginning 549' from DER, 78' left of centerline, up to 821' MSL.  
 Pole 766' from DER, 524' right of centerline, 837' MSL.  
 Poles and trees beginning 787' from DER, 48' left of centerline, up to 826' MSL.  
 Poles and trees beginning 800' from DER, 56' right of centerline, up to 840' MSL.  
 Tree 1902' from DER, 923' right of centerline, 841' MSL.  
 Trees beginning 1958' from DER, 563' right of centerline, up to 844' MSL.  
**Rwy 36**, building 70' from DER, 513' right of centerline, 789' MSL.  
 Antenna 104' from DER, 492' right of centerline, 810' MSL.  
 Terrain 115' from DER, 345' left of centerline, 789' MSL.  
 Trees beginning 143' from DER, 378' left of centerline, up to 18' AGL/810' MSL.  
 Pole 269' from DER, 565' left of centerline, 35' AGL/828' MSL.  
 Trees beginning 284' from DER, 424' right of centerline, up to 818' MSL.  
 Tree 322' from DER, 360' left of centerline, 831' MSL.  
 Pole and trees beginning 392' from DER, 301' left of centerline, up to 837' MSL.  
 Tower and trees beginning 510' from DER, 429' right of centerline, up to 45' AGL/823' MSL.

## HAMILTON, TX

### HAMILTON MUNI (MNZ)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17DEC09 (09351) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, tree 689' from DER, 211' left of centerline, 40' AGL/1346' MSL.  
 Vehicle on North-South road 849' from DER, on extended centerline, 15' AGL/1321' MSL.  
**Rwy 36**, trees beginning 621' from DER, 186' left of centerline, 40' AGL/1359' MSL.  
 Trees 879' from DER, 87' right of centerline, 40' AGL/1359' MSL.

## HARLINGEN, TX

### VALLEY INTL (HRL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 15AUG19 (19227) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, sign 29' from DER, 251' left of centerline, 6' AGL/39' MSL.  
 Pole 1117' from DER, 550' left of centerline, 34' AGL/67' MSL.  
**Rwy 17L**, NAVAID 9' from DER, on centerline, 3' AGL/37' MSL.  
 Vehicle on road 410' from DER, 519' left of centerline, 50' MSL.  
 Vehicle on road 415' from DER, 1' right of centerline, 51' MSL.  
**Rwy 17R**, fence 23' from DER, 498' right of centerline, 9' AGL/41' MSL.  
**Rwy 31**, NAVAID 52' from DER, 199' left of centerline, 4' AGL/37' MSL.  
 Pole 752' from DER, 540' left of centerline, up to 34' AGL/66' MSL.  
 Tree 981' from DER, 461' left of centerline, 69' MSL.  
 Tree 1055' from DER, 517' left of centerline, 72' MSL.  
**Rwy 35L**, sign 23' from DER, 250' left of centerline, 3' AGL/36' MSL.  
**Rwy 35R**, NAVAID 40' from DER, 149' left of centerline, 3' AGL/36' MSL.  
 NAVAID 40' from DER, 148' right of centerline, 3' AGL/36' MSL.  
 NAVAID 40' from DER, 202' left of centerline, 4' AGL/37' MSL.

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**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND**

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

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**HEBBRONVILLE, TX**

JIM HOGG COUNTY (HBV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 29JUL10 (10210) (FAA)

TAKEOFF OBSTACLE NOTES:

**Rwy 13**, trees beginning 7' from DER, 59' left of centerline, up to 25' AGL/694' MSL.**Rwy 31**, trees beginning 112' from DER, 274' right of centerline to 438' left of centerline, up to 12' AGL/681' MSL.  
Pole 801' from DER, 374' right of centerline, up to 26' AGL/685' MSL.

NDB 275' from DER, 495' left of centerline, up to 33' AGL/692' MSL.

Vehicle on road 399' from DER, left and right of centerline, up to 15' AGL/674' MSL.

**HONDO, TX**

SOUTH TEXAS RGNL AT HONDO (HDO)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 28JUL11 (11209) (FAA)

TAKEOFF MINIMUMS:

**Rwys 4, 22**, NA-Environmental.

TAKEOFF OBSTACLE NOTES:

**Rwy 8**, trees 407' from DER, 243' left of centerline, 30' AGL/959' MSL.**Rwy 17L**, vehicles on road 488' from DER, 131' right of centerline, 15' AGL/925' MSL.**Rwy 17R**, sand storage domes beginning 3653' from DER, 838' right of centerline, up to 115' AGL/1023' MSL.**Rwy 35R**, vehicles on road 161' from DER, 172' left of centerline, 15' AGL/943' MSL.

Multiple trees beginning 636' from DER, 354' right of centerline, up to 26' AGL/955' MSL.

Vehicles on road beginning 490' from DER, 122' right of centerline, 15' AGL/943' MSL.

**Rwy 26**, trees 1022' from DER, 241' right of centerline, 30' AGL/959' MSL.**Rwy 13**, trees 726' from DER, 250' left of centerline, 30' AGL/939' MSL.**HOOD AHP (KHLR)**

FORT HOOD (KILLEEN), TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 30JAN20 (20030)

TAKEOFF MINIMUMS:

**Rwy 16, 34**, for Copter use only.**JUNCTION, TX**

KIMBLE COUNTY (JCT)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 05MAY11 (11125) (FAA)

TAKEOFF MINIMUMS:

**Rwys 8, 26**, NA - Environmental.**Rwy17**, std. w/min. climb of 340' per NM to 2300 or 1300-3 for climb in visual conditions.**Rwy 35**, std. w/min. climb of 565' per NM to 2200 or 400-3 with minimum climb of 230' per NM to 2500, or 1300-3 for climb in visual conditions.

DEPARTURE PROCEDURE:

**Rwy 17**, climb heading 172° to 2800 before proceeding on course, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.**Rwy 35**, for climb in visual conditions cross Kimble County Airport at or above 2900 before proceeding on course.

TAKEOFF OBSTACLE NOTES:

**Rwy 17**, trees beginning abeam DER, 297' right of centerline, up to 50' AGL/1749' MSL.

Power lines beginning 229' from DER, 370' right of centerline, up to 75' AGL/1744' MSL.

Vehicles on road beginning 390' from DER, left and right of centerline, up to 17' AGL/1716' MSL.

Trees beginning 1548' from DER, left and right of centerline, up to 50' AGL/2049' MSL.

Radio towers beginning 4568' from DER, 736' left of centerline, up to 169' AGL/1854' MSL.

**Rwy 35**, power lines beginning abeam DER, 545' left of centerline, up to 75' AGL/1854' MSL.

Power lines abeam DER, 561' right of centerline, up to 75' AGL/1854' MSL.

Vehicles on road beginning 1121' from DER, left and right of centerline, up to 15' AGL/1794' MSL.

Trees beginning 1254' from DER, left and right of centerline, up to 50' AGL/2129' MSL.

**KELLY FLD (KSKF)**

SAN ANTONIO, TX

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25MAY17 (17145)

TAKEOFF OBSTACLE NOTES:

**Rwy 34**, trees 50' AGL/743' MSL, 1763' from DER, 919' left of cntrl.

**TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND**

  
**DIVERSE VECTOR AREA (RADAR VECTORS)**

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## KENEDY, TX

### KENEDY RGNL (2R9)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
AMDT 2A 15AUG19 (19227) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 16**, 300-1¼ or std. w/min. climb of 310' per NM to 600.

**Rwy 34**, 400-2¼ or std. w/min. climb of 675' per NM to 600.

#### DEPARTURE PROCEDURE:

**Rwy 34**, climb heading 344° to 800 before turning left.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 16**, fence at DER, 293' right of centerline, 8' AGL/277' MSL.

Fence at DER, 291' left of centerline, 8' AGL/279' MSL.

Trees beginning 11' from DER, 268' right of centerline, up to 100' AGL/379' MSL.

Poles beginning 965' from DER, 352' left of centerline, up to 80' AGL/364' MSL.

Tree 1771' from DER, 937' right of centerline, 100' AGL/389' MSL.

Tree 2752' from DER, 993' right of centerline, 100' AGL/399' MSL.

Tree 3234' from DER, 1137' left of centerline, 100' AGL/409' MSL.

Tree 3408' from DER, 982' right of centerline, 100' AGL/419' MSL.

Tree 4050' from DER, 808' right of centerline, 100' AGL/429' MSL.

Tree 4523' from DER, 348' right of centerline, 100' AGL/439' MSL.

Tree 4854' from DER, 200' right of centerline, 100' AGL/449' MSL.

Tree 5091' from DER, 147' right of centerline, 100' AGL/459' MSL.

Trees beginning 5351' from DER, 18' right of centerline, up to 100' AGL/469' MSL.

Tree 5684' from DER, 983' right of centerline, 100' AGL/479' MSL.

Tree 1 NM from DER, 1953' right of centerline, 100' AGL/489' MSL.

Tree 1.1 NM from DER, 2105' right of centerline, 100' AGL/499' MSL.

Tree 1.5 NM from DER, 1603' right of centerline, 100' AGL/507' MSL.

**Rwy 34**, tree 51' from DER, 180' left of centerline, 100' AGL/399' MSL.

Fence 169' from DER, crossing extended runway centerline, 8' AGL/295' MSL.

Tower 1031' from DER, 2808' left of centerline, 238' AGL/678' MSL.

Tree 1457' from DER, 761' left of centerline, 100' AGL/419' MSL.

Tree 1512' from DER, 8' right of centerline, 100' AGL/409' MSL.

Tree 1615' from DER, 859' left of centerline, 100' AGL/429' MSL.

Tree 1779' from DER, 861' left of centerline, 100' AGL/439' MSL.

Tree 1902' from DER, 847' left of centerline, 100' AGL/449' MSL.

Tree 2521' from DER, 950' right of centerline, 100' AGL/429' MSL.

Tree 3594' from DER, 1437' right of centerline, 100' AGL/459' MSL.

Tree 4395' from DER, 107' left of centerline, 100' AGL/469' MSL.

Tree 4834' from DER, 178' left of centerline, 100' AGL/479' MSL.

Tree 5227' from DER, 352' left of centerline, 100' AGL/489' MSL.

Tree 5720' from DER, 153' left of centerline, 100' AGL/499' MSL.

Trees beginning 1 NM from DER, 24' left of centerline, up to 100' AGL/519' MSL.

Trees beginning 1.1 NM from DER, 4' right of centerline, up to 100' AGL/529' MSL.

Tower, trees beginning 1.4 NM from DER, 86' left of centerline, up to 238' AGL/628' MSL.

## KERRVILLE, TX

### KERRVILLE MUNI/LOUIS SCHREINER FLD (ERV)

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  
AMDT 2 03JAN19 (22139) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 3**, 500-3 w/min. climb of 390' per NM to 2600, or std. w/min. climb of 455' per NM to 2400 or 1300-3 for VCOA.

**Rwy 30**, std. w/min. climb of 215' per NM to 2300 or 1300-3 for VCOA.

#### VCOA:

**Rwys 3, 30**, obtain ATC approval for VCOA when requesting IFR clearance. Climb in visual conditions to cross

Kerrville Muni/Louis Schreiner Fld at or above 2800 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, tree 23' from DER, 465' left of centerline, 41' AGL/1631' MSL.

Terrain 25' from DER, 401' right of centerline, 1635' MSL.

Terrain 36' from DER, 505' right of centerline, 1647' MSL.

Vehicles on road, terrain beginning 45' from DER, 310' right of centerline, up to 1649' MSL.

Trees beginning 239' from DER, 445' left of centerline, up to 47' AGL/1640' MSL.

Vehicle on road, terrain beginning 296' from DER, 352' right of centerline, up to 1650' MSL.

Trees beginning 436' from DER, 344' left of centerline, up to 66' AGL/1664' MSL.

Vehicles on road, terrain beginning 496' from DER, 311' right of centerline, up to 1652' MSL.

Trees, vehicles on road beginning 853' from DER, 117' right of centerline, up to 38' AGL/1673' MSL.

Trees beginning 895' from DER, 46' right of centerline, up to 31' AGL/1675' MSL.

Trees beginning 985' from DER, 96' right of centerline, up to 26' AGL/1678' MSL.

Trees beginning 1030' from DER, 198' right of centerline, up to 41' AGL/1684' MSL.

Poles, vehicles on road, transmission line, trees beginning 1176' from DER, 11' right of centerline, up to 55' AGL/1715' MSL.

Pole 1434' from DER, 418' left of centerline, 58' AGL/1672' MSL.

Transmission line, pole beginning 1440' from DER, 414' left of centerline, up to 59' AGL/1674' MSL.

Pole 1523' from DER, 772' left of centerline, 63' AGL/1698' MSL.

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## KERRVILLE, TX (CON'T)

### KERRVILLE MUNI/LOUIS SCHREINER FLD (ERV) (CON'T)

**Rwy 3 (CON'T)**, transmission line, trees, windmill, pole, vehicle on road beginning 1525' from DER, 28' left of centerline, up to 64' AGL/1705' MSL.

Trees, vehicles on road, fence beginning 2019' from DER, 37' right of centerline, up to 33' AGL/1742' MSL.

Trees, terrain beginning 2581' from DER, 576' right of centerline, up to 1743' MSL.

Trees beginning 2717' from DER, 540' left of centerline, up to 29' AGL/1708' MSL.

Trees, fence beginning 2978' from DER, 804' left of centerline, up to 37' AGL/1733' MSL.

Trees beginning 3253' from DER, 920' left of centerline, up to 30' AGL/1738' MSL.

Trees, pole beginning 3636' from DER, 1190' left of centerline, up to 33' AGL/1742' MSL.

Tree 3905' from DER, 1490' right of centerline, 30' AGL/1751' MSL.

Trees beginning 4069' from DER, 920' right of centerline, up to 16' AGL/1753' MSL.

Trees beginning 4108' from DER, 1199' right of centerline, up to 27' AGL/1773' MSL.

Tree 4291' from DER, 1344' right of centerline, 23' AGL/1776' MSL.

Trees beginning 4312' from DER, 1120' right of centerline, up to 23' AGL/1796' MSL.

Fence, tree beginning 4440' from DER, 1207' right of centerline, up to 4' AGL/1824' MSL.

Fence, tree beginning 4504' from DER, 1136' right of centerline, up to 6' AGL/1832' MSL.

Terrain, fence, tree beginning 4610' from DER, 1475' right of centerline, up to 1869' MSL.

Trees, fence, terrain beginning 4656' from DER, 347' right of centerline, up to 14' AGL/1879' MSL.

Poles beginning 4892' from DER, 1415' left of centerline, up to 40' AGL/1753' MSL.

Pole, trees beginning 5066' from DER, 1275' left of centerline, up to 39' AGL/1758' MSL.

Pole, tree beginning 5204' from DER, 1373' left of centerline, up to 37' AGL/1760' MSL.

Tree 5259' from DER, 1498' left of centerline, 34' AGL/1764' MSL.

Trees beginning 5329' from DER, 1203' left of centerline, up to 41' AGL/1769' MSL.

Tree 5365' from DER, 1718' left of centerline, 33' AGL/1772' MSL.

Trees, vehicle on road, poles beginning 5366' from DER, 1159' left of centerline, up to 32' AGL/1773' MSL.

Tree 5569' from DER, 1423' left of centerline, 34' AGL/1775' MSL.

Pole 5579' from DER, 1525' left of centerline, 28' AGL/1778' MSL.

Pole beginning 5639' from DER, 1125' left of centerline, up to 27' AGL/1800' MSL.

Pole, terrain, trees beginning 5667' from DER, 1228' left of centerline, up to 36' AGL/1809' MSL.

Tree 5885' from DER, 1970' left of centerline, 28' AGL/1850' MSL.

Trees, terrain beginning 5931' from DER, 1356' left of centerline, up to 26' AGL/1874' MSL.

Tree 6068' from DER, 1968' left of centerline, 21' AGL/1890' MSL.

Trees beginning 1 NM from DER, 1442' left of centerline, up to 21' AGL/1892' MSL.

Tree, vehicle on road, terrain, fence beginning 1 NM from DER, 1349' left of centerline, up to 1924' MSL.

Vehicle on road, tree beginning 1 NM from DER, 914' right of centerline, up to 1902' MSL.

Vehicles on road beginning 1 NM from DER, 1170' right of centerline, up to 1903' MSL.

Trees beginning 1 NM from DER, 991' right of centerline, up to 22' AGL/1921' MSL.

Tree, vehicles on road beginning 1.1 NM from DER, 735' right of centerline, up to 29' AGL/1923' MSL.

Tree, terrain beginning 1.1 NM from DER, 524' right of centerline, up to 1927' MSL.

Trees, vehicles on road, terrain, poles beginning 1.1 NM from DER, 416' right of centerline, up to 36' AGL/1929' MSL.

Building, trees, vehicle on road beginning 1.2 NM from DER, 1213' right of centerline, up to 32' AGL/1931' MSL.

Trees, vehicles on road, poles, building, terrain, tank beginning 1.2 NM from DER, on and right of centerline, up to 35' AGL/1934' MSL.

Fence, tree beginning 1.3 NM from DER, 1576' left of centerline, up to 6' AGL/1925' MSL.

Building 1.3 NM from DER, 2597' left of centerline, 14' AGL/1934' MSL.

Tree 1.3 NM from DER, 2558' left of centerline, 23' AGL/1943' MSL.

Building, trees, poles, vehicles on road beginning 1.3 NM from DER, 1543' left of centerline, up to 41' AGL/1962' MSL.

Buildings, poles, vehicles on road, trees, fence, tank, terrain beginning 1.3 NM from DER, 18' left of centerline, up to 32' AGL/1963' MSL.

Trees, pole, vehicles on road beginning 1.4 NM from DER, 160' right of centerline, up to 31' AGL/1941' MSL.

Trees, vehicles on road, fence beginning 1.4 NM from DER, 233' right of centerline, up to 25' AGL/1947' MSL.

Trees, poles, vehicles on road beginning 1.5 NM from DER, 196' right of centerline, up to 25' AGL/1950' MSL.

Poles, trees, vehicles on road, fence, terrain beginning 1.5 NM from DER, 179' right of centerline, up to 44' AGL/1961' MSL.

Trees, vehicles on road, terrain beginning 1.6 NM from DER, 37' left of centerline, up to 25' AGL/1967' MSL.

Trees, vehicles on road, pole beginning 1.7 NM from DER, 133' right of centerline, up to 28' AGL/1962' MSL.

Vehicle on road, tree beginning 1.7 NM from DER, 1457' right of centerline, up to 1963' MSL.

Trees, vehicles on road beginning 1.7 NM from DER, 1588' left of centerline, up to 18' AGL/1968' MSL.

Trees, fence, vehicles on road beginning 1.7 NM from DER, 15' right of centerline, up to 22' AGL/1978' MSL.

Poles, trees, vehicles on road, terrain, building beginning 1.7 NM from DER, 196' right of centerline, up to 36' AGL/1982' MSL.

Vehicles on road, tree beginning 1.7 NM from DER, 2149' left of centerline, up to 1969' MSL.

Poles, trees, vehicles on road beginning 1.7 NM from DER, 906' left of centerline, up to 39' AGL/1976' MSL.

Pole, trees, vehicles on road beginning 1.7 NM from DER, 76' right of centerline, up to 45' AGL/1994' MSL.

Pole, tree, vehicle on road, terrain beginning 1.7 NM from DER, 17' left of centerline, up to 40' AGL/1986' MSL.

Tree, vehicle on road, tank beginning 1.8 NM from DER, 271' right of centerline, up to 36' AGL/2000' MSL.

Trees beginning 1.8 NM from DER, 88' right of centerline, up to 27' AGL/2010' MSL.

Poles, fence, buildings, trees, vehicles on road, terrain beginning 1.8 NM from DER, on centerline, up to 43' AGL/2022' MSL.

Vehicles on road, trees, pole beginning 1.8 NM from DER, 84' left of centerline, up to 1989' MSL.

Trees, poles, vehicles on road, building, terrain beginning 1.8 NM from DER, 173' left of centerline, up to 44' AGL/2003' MSL.

Tree, terrain, buildings, vehicles on road, pole beginning 1.9 NM from DER, 267' left of centerline, up to 34' AGL/2025' MSL.

Windmill, buildings, trees, terrain, vehicles on road, poles, tank, transmission line beginning 1.9 NM from DER, 34' left of centerline, up to 52' AGL/2044' MSL.

**CON'T**

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## KERRVILLE, TX (CON'T)

### KERRVILLE MUNI/LOUIS SCHREINER FLD (ERV) (CON'T)

**Rwy 3 (CON'T)**, transmission line, tree beginning 2.4 NM from DER, 1351' left of centerline, up to 116' AGL/2077' MSL.  
Transmission lines, trees beginning 2.4 NM from DER, 524' left of centerline, up to 108' AGL/2078' MSL.  
Transmission lines 2.5 NM from DER, 866' right of centerline, 103' AGL/2042' MSL.

**Rwy 12**, terrain beginning 76' from DER, 189' left of centerline, up to 1593' MSL.  
Tree 289' from DER, 448' right of centerline, 32' AGL/1605' MSL.  
Vehicles on road beginning 517' from DER, 617' left of centerline, up to 1608' MSL.  
Tree 625' from DER, 442' right of centerline, 33' AGL/1607' MSL.

**Rwy 21**, fence, terrain beginning 1' from DER, 145' right of centerline, up to 1583' MSL.  
Vehicles on road, sign, terrain beginning 13' from DER, 125' left of centerline, up to 1576' MSL.  
Pole 838' from DER, 593' right of centerline, 35' AGL/1595' MSL.  
Pole, trees beginning 893' from DER, 422' right of centerline, up to 41' AGL/1602' MSL.  
Trees beginning 975' from DER, 277' right of centerline, up to 54' AGL/1608' MSL.  
Trees beginning 1291' from DER, 284' right of centerline, up to 80' AGL/1610' MSL.  
Tree 1439' from DER, 250' right of centerline, 89' AGL/1619' MSL.  
Antenna 2904' from DER, 870' right of centerline, 102' AGL/1655' MSL.  
Tree 4950' from DER, 1649' right of centerline, 48' AGL/1704' MSL.  
Tree, building beginning 4963' from DER, 1520' right of centerline, up to 50' AGL/1710' MSL.

**Rwy 30**, vehicle on road 1' from DER, 477' left of centerline, 1577' MSL.  
Tree 190' from DER, 493' left of centerline, 28' AGL/1584' MSL.  
Tree 210' from DER, 514' left of centerline, 41' AGL/1592' MSL.  
Pole, tree, building, lighting beginning 244' from DER, 208' left of centerline, up to 33' AGL/1594' MSL.  
Fence beginning 324' from DER, 330' right of centerline, up to 11' AGL/1582' MSL.  
Vehicles on road, fence beginning 329' from DER, 271' right of centerline, up to 1592' MSL.  
Tree 404' from DER, 521' right of centerline, 35' AGL/1610' MSL.  
Trees, poles beginning 407' from DER, 412' left of centerline, up to 51' AGL/1598' MSL.  
Poles, building, trees beginning 443' from DER, 32' right of centerline, up to 39' AGL/1615' MSL.  
Tree 599' from DER, 500' left of centerline, 51' AGL/1605' MSL.  
Trees beginning 621' from DER, 19' left of centerline, up to 51' AGL/1606' MSL.  
Trees beginning 874' from DER, 104' left of centerline, up to 83' AGL/1614' MSL.  
Tree 1748' from DER, 937' left of centerline, 93' AGL/1619' MSL.

## KILLEEN, TX

### SKYLARK FLD (ILE)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 15JAN09 (21224) (FAA)

##### DEPARTURE PROCEDURE:

**Rwy 19**, climb heading 190° to 1900 before turning east.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, multiple poles beginning 317' from DER, 384' left of centerline, up to 27' AGL/868' MSL.  
Tree, 973' from DER, 100' left of centerline, 28' AGL/876' MSL.  
Building, 486' from DER, 9' right of centerline, 13' AGL/854' MSL.  
Antenna, 351' from DER, 277' right of centerline, 11' AGL/852' MSL.  
**Rwy 19**, pole, 288' from DER, 588' right of centerline, 32' AGL/880' MSL.  
Building, 102' from DER, 411' right of centerline, 8' AGL/856' MSL.  
Vehicle on road, 232' from DER, 499' right of centerline, 15' AGL/867' MSL.  
Pole, 256' from DER, 497' left of centerline, 32' AGL/873' MSL.  
Building, 276' from DER, 342' left of centerline, 11' AGL/859' MSL.  
Building, 298' from DER, 83' left of centerline, 9' AGL/857' MSL.

## KINGSVILLE NAS (KNQI)

### KINGSVILLE, TX

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 16JUL20 (20198)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13R**, terrain 0' from DER, 500' right of cntrln, 0' AGL/45' MSL.  
**Rwy 17L**, terrain 0' from DER, 500' left of cntrln, 0' AGL/56' MSL.  
Terrain 328' from DER, 500' left of cntrln, 0' AGL/59' MSL.  
**Rwy 17R**, tower 559' from DER, 1' left of cntrln, 5' AGL/56' MSL.  
Terrain 0' from DER, 500' right of cntrln, 0' AGL/60' MSL.  
Terrain 281' from DER, 500' right of cntrln, 0' AGL/60' MSL.  
**Rwy 31L**, terrain 0' from DER, 500' left of cntrln, 0' AGL/52' MSL.

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**KINGSVILLE, TX****KLEBERG COUNTY (IKG)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 29JUL10 (10210) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 13**, trees beginning 528' from DER, 515' right of centerline, up to 35' AGL/154' MSL.

Trees beginning 775' from DER, 554' left of centerline, up to 35' AGL/159' MSL.

**Rwy 31**, trees beginning 184' from DER, 358' right of centerline, up to 28' AGL/153' MSL.**LAGO VISTA, TX****LAGO VISTA TX/RUSTY ALLEN (RYW)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1A 17AUG17 (22027) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 15**, building 4' from DER, 157' right of centerline, 25' AGL/1225' MSL.

Building and trees beginning 18' from DER, 248' left of centerline, up to 1232' MSL.

**Rwy 33**, trees beginning 14' from DER, 158' right of centerline, up to 1258' MSL.

Trees beginning 44' from DER, 144' left of centerline, up to 1257' MSL.

Trees beginning 173' from DER, 315' left of centerline, up to 1262' MSL.

Trees beginning 173' from DER, 235' right of centerline, up to 1259' MSL.

Trees beginning 494' from DER, 224' right of centerline, up to 1269' MSL.

Trees beginning 624' from DER, 274' left of centerline, up to 1270' MSL.

Trees beginning 743' from DER, 159' left of centerline, up to 1273' MSL.

Tree 1430' from DER, 122' right of centerline, 1270' MSL.

Tree 1612' from DER, 132' left of centerline, 1274' MSL.

**LAKEWAY, TX****LAKEWAY AIRPARK (3R9)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 3 05MAR15 (15064) (FAA)

**TAKEOFF MINIMUMS:****Rwy 16**, 500-2¾ or std. w/min. climb of 265' per NM to 1500.**DEPARTURE PROCEDURE:****Rwy 16**, climb heading 165° to 1700 before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 16**, trees on rising terrain beginning 26' from DER, 161' right of centerline, up to 50' AGL/975' MSL.

Building 38' from DER, 229' right of centerline, 50' AGL/989' MSL.

Tree 194' from DER, 221' left of centerline, 50' AGL/943' MSL.

Building and trees beginning 534' from DER, 165' left of centerline, 40' AGL/941' MSL.

Power lines with catenary markers beginning 776' from DER, crossing centerline, up to 80' AGL/999' MSL.

Tower 2.1 NM from DER, 1314' right of centerline, 195' AGL/1326' MSL.

**Rwy 34**, trees beginning abeam DER, right of centerline, up to 50' AGL/931' MSL.

Trees and buildings beginning abeam DER, 161' left of centerline, up to 50' AGL/965' MSL.

Trees and buildings on rising terrain beginning 3405' from DER, crossing centerline, up to 50' AGL/1009' MSL.

**LAMPASAS, TX****LAMPASAS (LZZ)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 17DEC09 (09351) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 16**, building 39' from DER, 374' left of centerline, 20' AGL/1189' MSL.

Trees beginning 795' from DER, 217' right of centerline, up to 30' AGL/1189' MSL.

**Rwy 34**, trees beginning 657' from DER, 147' left of centerline, up to 30' AGL/1249' MSL.

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## LAREDO, TX

### LAREDO INTL (LRD)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4B 08NOV18 (18312) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 14**, climb heading 142° to 1000 before turning right.

**Rwy 18L**, climb heading 163° to 1200 before turning right.

**Rwy 18R**, climb heading 163° to 1300 before turning right.

**Rwy 32**, climb heading 322° to 1200 before turning left.

**Rwys 36L, 36R**, climb heading 358° to 1000 before turning left.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, trees beginning 135' from DER, 298' left of centerline, up to 59' AGL/519' MSL.

Sign 226' from DER, 244' left of centerline, 14' AGL/474' MSL.

**Rwy 18L**, terrain beginning 48' from DER, 333' right of centerline, up to 478' MSL.

**Rwy 18R**, terrain beginning 4' from DER, 219' right of centerline, up to 489' MSL.

Light poles beginning 894' from DER, 344' right of centerline, up to 41' AGL/511' MSL.

**Rwy 32**, aircraft on taxiway beginning 50' from DER, 367' left of centerline, up to 75' AGL/584' MSL.

Trees beginning 768' from DER, 584' left of centerline, up to 59' AGL/559' MSL.

Trees beginning 88' from DER, 275' right of centerline, up to 59' AGL/559' MSL.

**Rwy 36L**, MALSR 5' from DER, on centerline, 5' AGL/505' MSL.

NAVAID 10' from DER, on centerline, 5' AGL/505' MSL.

Antenna on building 81' from DER, 404' left of centerline, 30' AGL/520' MSL.

**Rwy 36R**, terrain beginning 19' from DER, 191' left of centerline, up to 500' MSL.

Terrain beginning 176' from DER, 489' right of centerline, up to 512' MSL.

## LAUGHLIN AFB (KDLF)

### DEL RIO, TX

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDY 1 27JAN22 (22027) (USAF)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 13C**, taxiing aircraft 197' from DER, 222' right of centerline, 14' AGL/1079' MSL.

**Rwy 13L**, taxiing aircraft 9' from DER, 204' right of centerline, 14' AGL/1076' MSL.

**Rwy 13R**, taxiing aircraft 1159' from DER, 175' left of centerline, 38' AGL/1108' MSL.

Taxiing aircraft 14' from DER, 202' left of centerline, 14' AGL/1090' MSL.

Taxiing aircraft 65' from DER, 301' left of centerline, 14' AGL/1090' MSL.

Taxiing aircraft 524' from DER, 605' right of centerline, 14' AGL/1093' MSL.

**Rwy 31C**, vehicular traffic 16' from DER, 466' right of centerline, 10' AGL/1092' MSL.

**Rwy 31R**, terrain 0' from DER, 500' left of centerline, 1082' MSL.

Terrain 141' from DER, 516' left of centerline, 1083' MSL.

Terrain 173' from DER, 546' left of centerline, 1083' MSL.

Vehicular traffic 609' from DER, 534' left of centerline, 10' AGL/1092' MSL.

Terrain 115' from DER, 521' right of centerline, 1085' MSL.

Terrain 72' from DER, 449' right of centerline, 1083' MSL.

Taxiing aircraft 6' from DER, 174' left of centerline, 14' AGL/1090' MSL.

Railroad 1423' from DER, 469' right of centerline, 23' AGL/1102' MSL.

Windsock 19' from DER, 496' left of centerline, 26' AGL/1101' MSL.

Railroad 1239' from DER, 869' left of centerline, 23' AGL/1102' MSL.

## LLANO, TX

### LLANO MUNI (AQO)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17DEC09 (09351) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 13, 31**, NA-Environmental.

#### DEPARTURE PROCEDURE:

**Rwy 35**, climb heading 354° to 1900 before proceeding on course.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, tree 11' from DER, 364' left of centerline, 25' AGL/1144' MSL.

Trees 811' from DER, 242' left of centerline, 25' AGL/1124' MSL.

**Rwy 35**, hangar 209' from DER, 497' right of centerline, 30' AGL/1149' MSL.

Tree 485' from DER, 265' right of centerline, 25' AGL/1144' MSL.

Vehicles on North-South road, 270' left of centerline, 15' AGL/1114' MSL.

Vehicles on road 390' from DER, crosses centerline East-West, 15' AGL/1134' MSL.

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## LOCKHART, TX

### LOCKHART MUNI (50R)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 25AUG11 (11237) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 36**, 400-3 or std. w/min. climb of 275' per NM to 1200.

##### DEPARTURE PROCEDURE:

**Rwy 36**, climb heading 355° to 1200 before turning.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, trees beginning 47' from DER, 267' left of centerline, up to 65' AGL/555' MSL.

Trees beginning 245' from DER, 13' right of centerline, up to 42' AGL/541' MSL.

**Rwy 36**, bush 51' from DER, 305' right of centerline, 8' AGL/568' MSL.

Pole 1298' from DER, 561' right of centerline, 38' AGL/568' MSL.

Tower 2.2 NM from DER, 2536' right of centerline, 378' AGL/918' MSL.

## MARFA, TX

### MARFA MUNI (MRF)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 25FEB21 (21056) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 9, 27**, NA - Environmental.

CAUTION: Unmarked balloon and cable to 14000' MSL in R-6318.

##### DEPARTURE PROCEDURE:

**Rwy 4**, climbing right turn direct MRF VOR/DME thence...

**Rwy 13**, climb direct MRF VOR/DME thence...

**Rwys 22, 31**, climbing left turn direct MRF VOR/DME thence...

...all aircraft climb in MRF holding pattern (southeast, left turn, 313° inbound) to cross MRF VOR/DME at or above MEA for direction of flight.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 4**, vehicle on road, tree beginning 18' from DER, 319' left of centerline, up to 15' AGL/4863' MSL.

Tree 76' from DER, 504' right of centerline, 4852' MSL.

Vehicle on road, tree beginning 121' from DER, 48' left of centerline, up to 15' AGL/4864' MSL.

Vehicle on road 462' from DER, 270' left of centerline, 4866' MSL.

Vehicle on road 469' from DER, 613' right of centerline, 4863' MSL.

Vehicle on road beginning 558' from DER, 197' left of centerline, up to 4869' MSL.

Vehicle on road 709' from DER, 417' left of centerline, 4870' MSL.

Vehicle on road 744' from DER, 583' right of centerline, 4868' MSL.

**Rwy 13**, vehicle on road 29' from DER, 413' right of centerline, 4846' MSL.

Vehicle on road 175' from DER, 429' right of centerline, 15' AGL/4848' MSL.

Vehicle on road 513' from DER, 564' left of centerline, 4846' MSL.

Pole 1041' from DER, 572' right of centerline, 4858' MSL.

**Rwy 22**, vehicle on road beginning 5' from DER, 281' left of centerline, up to 15' AGL/4840' MSL.

Tree 152' from DER, 419' right of centerline, 4833' MSL.

Tank, vehicle on road beginning 340' from DER, 272' left of centerline, up to 4846' MSL.

**Rwy 31**, building 31' from DER, 249' right of centerline, 5' AGL/4843' MSL.

## MASON, TX

### MASON COUNTY (T92)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 17AUG17 (17229) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 36**, 300-1 or std. w/ min. climb of 440' per NM to 1800.

##### DEPARTURE PROCEDURE:

**Rwy 18**, climb heading 176° to 2100' before turning right.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, trees beginning 469' from DER, 87' left of centerline, up to 35' AGL/1555' MSL.

**Rwy 36**, trees beginning 379' from DER, left and right of centerline, up to 35' AGL/1538' MSL.

T-L tower 3061' from DER, 1185' left of centerline, 95' AGL/1628' MSL.

T-L towers beginning 3625' from DER, 193' left of centerline, up to 85' AGL/1641' MSL.

T-L towers beginning 4435' from DER, 303' right of centerline, up to 90' AGL/1667' MSL.

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**MC ALLEN, TX****MC ALLEN MILLER INTL (MFE)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 2 10DEC15 (15344) (FAA)

**TAKEOFF MINIMUMS:****Rwy 36**, 300-1½, or std. w/min. climb of 296' per NM to 500'.**TAKEOFF OBSTACLE NOTES:****Rwy 14**, trees beginning 792' from DER, 593' left of centerline, up to 44' AGL/139' MSL.**Rwy 32**, trees and poles beginning 709' from DER, 362' left of centerline, up to 52' AGL/157' MSL.

Tree 1019' from DER, 627' right of centerline, 42' AGL/142' MSL.

**Rwy 36**, pole 581' from DER, on centerline, 19' AGL/122' MSL.

Tower 198' from DER, 335' left of centerline, 38' AGL/140' MSL.

Buildings and trees beginning 652' from DER, 36' left of centerline, up to 50' AGL/155' MSL.

Towers, poles and buildings beginning 635' from DER, 25' right of centerline, up to 62' AGL/166' MSL.

Buildings 2016' from DER, 860' right of centerline, 89' AGL/197' MSL.

Buildings 1.29 NM from DER, 243' right of centerline, 263' AGL/394' MSL.

**MIDLAND, TX****MIDLAND AIRPARK (MDD)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 4 16AUG18 (18228) (FAA)

**TAKEOFF MINIMUMS:****Rwy 16**, 400-2½ or std. w/min. climb of 220' per NM to 3300.**Rwy 25**, 300-1½ or std. w/min. climb of 230' per NM to 3100, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.**TAKEOFF OBSTACLE NOTES:****Rwy 7**, vehicles on road and tree beginning 87' from DER, 360' left of centerline, up to 2803' MSL.

Vegetation 218' from DER, 441' right of centerline, 2797' MSL.

Poles beginning 316' from DER, 443' left of centerline, up to 50' AGL/2840' MSL.

Poles beginning 1601' from DER, 252' left of centerline, up to 52' AGL/2843' MSL.

Pole 1868' from DER, 377' left of centerline, 52' AGL/2849' MSL.

Pole 2136' from DER, 343' left of centerline, 52' AGL/2855' MSL.

Pole 2403' from DER, 309' left of centerline, 52' AGL/2859' MSL.

Poles beginning 2688' from DER, 256' left of centerline, up to 52' AGL/2861' MSL.

**Rwy 16**, vegetation 37' from DER, 490' right of centerline, 2803' MSL.

Pole 196' from DER, 498' right of centerline, 33' AGL/2827' MSL.

Pole 318' from DER, 449' right of centerline, 34' AGL/2828' MSL.

Poles and trees beginning 613' from DER, 296' right of centerline, up to 42' AGL/2834' MSL.

Pole 826' from DER, 454' left of centerline, 32' AGL/2822' MSL.

Tree 856' from DER, 227' left of centerline, 2829' MSL.

Trees beginning 1098' from DER, 291' right of centerline, up to 2842' MSL.

Poles beginning 1269' from DER, 664' left of centerline, up to 51' AGL/2839' MSL.

Tower 2 NM from DER, 3181' left of centerline, 354' AGL/3136' MSL.

Building 2 NM from DER, 3680' left of centerline, 354' AGL/3135' MSL.

**Rwy 25**, pole 104' from DER, 519' right of centerline, 67' AGL/2870' MSL.

Poles beginning 373' from DER, 316' right of centerline, up to 69' AGL/2873' MSL.

Tree and sign beginning 642' from DER, 205' left of centerline, up to 2840' MSL.

Poles, lighting, and tree beginning 644' from DER, 12' right of centerline, up to 71' AGL/2876' MSL.

Tree, pole, and lighting beginning 681' from DER, 76' left of centerline, up to 2842' MSL.

Building and trees beginning 866' from DER, 38' left of centerline, up to 40' AGL/2851' MSL.

Tower 5309' from DER, 1326' right of centerline, 137' AGL/2956' MSL.

**Rwy 34**, vehicles on road 572' from DER, 423' left of centerline, 2816' MSL.

Pole and trees beginning 635' from DER, 329' right of centerline, up to 51' AGL/2843' MSL.

Tree 838' from DER, 484' left of centerline, 2825' MSL.

Trees beginning 1216' from DER, 328' right of centerline, up to 2850' MSL.

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## MIDLAND, TX (CON'T)

### MIDLAND INTL AIR AND SPACE PORT (MAF)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 22JUN17 (17173) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 34L**, 300-1½ or std. w/min. climb of 400' per NM to 3200.

**Rwy 34R**, 300-1¼ or std. w/min. climb of 320' per NM to 3200.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 4**, trees beginning 24' from DER, 34' right of centerline, up to 40' AGL/2903' MSL.

Rods, towers and domes beginning 1231' from DER, 442' left of centerline, up to 108' AGL/2963' MSL.

**Rwy 10**, rods, antennas, and lights beginning 72' from DER, 40' right of centerline, up to 20' AGL/2874' MSL.

Trees, poles, and signs beginning 1296' from DER, 457' left of centerline, up to 40' AGL/2913' MSL.

**Rwy 16L**, signs and poles beginning 94' from DER, 20' left of centerline, up to 30' AGL/2877' MSL.

Railroad beginning 530' from DER, 17' left of centerline, 23' AGL/2869' MSL.

Vehicles on road beginning 301' from DER, 268' left of centerline, 17' AGL/2862' MSL.

**Rwy 16R**, pole 1794' from DER, 975' right of centerline, 55' AGL/2906' MSL.

**Rwy 22**, tower, poles, lights, and antenna beginning 111' from DER, 66' right of centerline, up to 102' AGL/2986' MSL.

Hangars 1112' from DER, 600' right of centerline, 55' AGL/2906' MSL.

Tower, poles, and sign beginning 83' from DER, 62' left of centerline, up to 120' AGL/2971' MSL.

**Rwy 34L**, drilling rigs beginning 201' from DER, 178' right of centerline, up to 165' AGL/3037' MSL.

Drilling rigs beginning 3228' from DER, 769' left of centerline, 165' AGL/3056' MSL.

**Rwy 34R**, vehicles on road beginning 256' from DER, 10' right of centerline, up to 17' AGL/2881' MSL.

Trees and bushes beginning 171' from DER, 80' right of centerline, up to 40' AGL/2878' MSL.

Poles and fence beginning 28' from DER, 109' right of centerline, up to 38' AGL/2903' MSL.

Fence beginning 83' from DER, 271' left of centerline, 8' AGL/2872' MSL.

Windmill, poles and trees beginning 1239' from DER, 116' left of centerline, up to 66' AGL/2913' MSL.

Drilling rig 5540' from DER, 267' left of centerline, 165' AGL/3025' MSL.

## MONAHANS, TX

### ROY HURD MEML (E01)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 31MAY12 (21224) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 1**, 400-1½ or std. w/min. climb of 434' per NM to 3100.

**Rwy 12**, 300-1 or std. w/min. climb of 552' per NM to 2900.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, vehicles on road, trees, and power line and poles beginning 185' from DER, left and right of centerline, up to 40' AGL/2649' MSL.

Tower 1.2 NM from DER, 211' right of centerline, 303' AGL/2928' MSL.

**Rwy 12**, bush 75' from DER, 479' left of centerline, 12' AGL/2617' MSL.

Trees and a pole beginning 778' from DER, 23' right of centerline, up to 31' AGL/2641' MSL.

Trees beginning 1041' from DER, 29' left of centerline, up to 42' AGL/2652' MSL.

Tower 2283' from DER, 909' left of centerline, 130' AGL/2744' MSL.

**Rwy 19**, vehicle on road 215' from DER, 457' right of centerline, 15' AGL/2624' MSL.

**Rwy 30**, fence, railroad, poles, and trees beginning 56' from DER, 106' right of centerline, up to 44' AGL/2649' MSL.

Vehicle on road, light pole, building, and poles beginning 294' from DER, 41' left of centerline, up to 50' AGL/2655' MSL.

## NEW BRAUNFELS, TX

### NEW BRAUNFELS NTL (BAZ)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 25JUN15 (21336) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, poles beginning 1236' from DER, 277' right of centerline, up to 40' AGL/678' MSL.

Poles beginning 1238' from DER, 557' left of centerline, up to 41' AGL/677' MSL.

Trees beginning 1339' from DER, 211' right of centerline, up to 55' AGL/690' MSL.

**Rwy 35**, airport visual aid 56' from DER, 25' right of centerline, 3' AGL/649' MSL.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## ODESSA, TX

### ODESSA-SCHLEMEYER FLD (ODO)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 3A 13SEP18 (21308) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 16**, 300-2 or std. w/min. climb of 255' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 1300 feet prior to DER.

**Rwy 20**, 300-2½ or std. w/min. climb of 225' per NM to 3400, or alternatively, with std. takeoff minimums and a normal 200' per NM climb gradient. Takeoff must occur no later than 2100' prior to DER.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 2**, vehicles on roadway 184' from DER, left and right of centerline, up to 13' AGL/3013' MSL.

**Rwy 16**, tower 1.5 NM from DER, 2759' right of centerline, 145' AGL/3205' MSL.

**Rwy 20**, tower 2.0 NM from DER, 1311' left of centerline, 340' AGL/3287' MSL.

**Rwy 29**, rising terrain, trees and poles beginning 8' from DER, 495' right of centerline, up 3012' MSL.

**Rwy 34**, vehicles on roadway beginning 48' from DER, left and right of centerline, up to 16' AGL/3001' MSL.

Hangars 739' from DER, 628' left of centerline, 25' AGL/3012' MSL.

Antenna 1104' from DER, 185' right of centerline, 45' AGL/3032' MSL.

## ORANGE GROVE NALF (KNOG)

### ORANGE GROVE, TX

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 09SEP21 (21252) (USN)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 31**, terrain 0' from DER, 500' right of cntrln, 259' MSL.

## OZONA, TX

### OZONA MUNI (OZA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 10JUL03 (03191) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 16**, 300-1 or std. with a min. climb of 445' per NM to 2700.

**Rwy 34**, 200-1½ or std. with a min. climb of 380' per NM to 2600.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 16**, trees 3686' from DER, 354' left of centerline, 100' AGL/2560' MSL.

Trees 4436' from DER, 355' left of centerline, 100' AGL/2574' MSL.

**Rwy 34**, trees 1363' from DER, 638' left of centerline, 100' AGL/2529' MSL.

Trees 3479' from DER, 791' left of centerline, 100' AGL/2535' MSL.

Trees 7679' from DER, 932' left of centerline, 100' AGL/2593' MSL.

## PEARSALL, TX

### MC KINLEY FLD (T30)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 17NOV11 (22111) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, trees beginning abeam DER, 300' left of centerline, up to 40' AGL/605' MSL.

Transmission lines beginning 1777' from DER, across centerline, up to 80' AGL/642' MSL.

**Rwy 31**, train on track 496' from DER, across centerline, 23' AGL/610' MSL.

Vehicle on road 291' from DER, across centerline, 15' AGL/602' MSL.

## PECOS, TX

### PECOS MUNI (PEQ)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 20SEP12 (12264) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, bush 170' from DER, 252' right of centerline, up to 7' AGL/2607' MSL.

**Rwy 32**, bush 129' from DER, 348' left of centerline, up to 9' AGL/2614' MSL.

## PLEASANTON, TX

### PLEASANTON MUNI (PEZ)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 20NOV08 (08325) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 16**, vehicle on road 108' from DER, 285' left of centerline, 15' AGL/424' MSL.

Fence 135' from DER, 194' left of centerline, 3' AGL/412' MSL.

Fence 235' from DER, 38' right of centerline, 3' AGL/412' MSL.

Trees beginning 246' from DER, 56' left of centerline, up to 100' AGL/529' MSL.

Trees beginning 173' from DER, 154' right of centerline, up to 100' AGL/529' MSL.

**Rwy 34**, vehicle on road 136' from DER, left to right of centerline, up to 15' AGL/444' MSL.

Fence 191' from DER, 251' left of centerline, 3' AGL/442' MSL.

Trees beginning 210' from DER, 51' left of centerline, up to 100' AGL/539' MSL.

Trees 172' from DER, 74' right of centerline, 100' AGL/529' MSL.

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## PORT ARANSAS, TX

### MUSTANG BEACH (RAS)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15JAN09 (09015) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 12**, transmission towers and poles beginning 43' from DER, 28' right of centerline, up to 81' AGL/86' MSL. Building 2435' from DER, 967' right of centerline, 130' AGL/135' MSL.

Transmission towers and poles beginning 1141' from DER, 13' left of centerline, up to 83' AGL/88' MSL.

**Rwy 30**, boat 1657' from DER, 915' left of centerline, 50' AGL/50' MSL.

## PORT ISABEL, TX

### PORT ISABEL-CAMERON COUNTY (PIL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2B 19JUL18 (18200) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, std. w/min. climb of 243' per NM to 700 or 900-3 for VCOA.

**Rwy 21**, 600-3 w/min. climb of 231' per NM to 700 or std. w/min. climb of 312' per NM to 700 or 900-3 for VCOA.

##### DEPARTURE PROCEDURE:

**Rwy 13**, climb on heading 130° to 500 before turning right.

**Rwy 17**, climb on heading 175° to 600 before turning right.

##### VCOA:

**Rwy 17**, obtain ATC approval for VCOA when requesting IFR clearance: climb in visual conditions to cross Port Isabel-Cameron County airport at or above 800 before proceeding on course.

**Rwy 21**, obtain ATC approval for VCOA when requesting IFR clearance: climb in visual conditions to cross Port Isabel-Cameron County airport at or above 800 before proceeding on course.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, trees beginning 15' from DER, 5' right of centerline, up to 100' AGL/117' MSL.

Trees beginning 200' from DER, 25' left of centerline, up to 100' AGL/117' MSL.

**Rwy 8**, trees beginning 141' from DER, 109' right of centerline, up to 100' AGL/117' MSL.

Trees beginning 142' from DER, 183' left of centerline, up to 100' AGL/117' MSL.

**Rwy 13**, trees beginning 6' from DER, 6' left of centerline, up to 100' AGL/117' MSL.

Trees beginning 26' from DER, 15' right of centerline, up to 100' AGL/117' MSL.

**Rwy 17**, trees beginning 183' from DER, 84' right of centerline, up to 100' AGL/117' MSL.

Trees beginning 185' from DER, 178' left of centerline, up to 100' AGL/117' MSL.

**Rwy 21**, trees beginning 90' from DER, 19' left of centerline, up to 100' AGL/117' MSL.

Trees beginning 246' from DER, 0' of centerline, up to 100' AGL/117' MSL.

Windmill 2.1 NM from DER, 2541' left of centerline, 492' AGL/512' MSL.

Windmill 2.2 NM from DER, 1999' left of centerline, 492' AGL/514' MSL.

Windmill 2.4 NM from DER, 1377' left of centerline, 499' AGL/522' MSL.

**Rwy 26**, trees beginning 6' from DER, 208' right of centerline, up to 100' AGL/117' MSL.

Trees beginning 7' from DER, 83' left of centerline, up to 100' AGL/117' MSL.

**Rwy 35**, trees beginning 158' from DER, 202' right of centerline, up to 100' AGL/114' MSL.

Trees beginning 765' from DER, 63' left of centerline, up to 100' AGL/114' MSL.

Trees beginning 3191' from DER, 61' left of centerline, up to 100' AGL/117' MSL.

## PRESIDIO, TX

### PRESIDIO LELY INTL (PRS)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 03APR14 (14093) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 17**, std. w/min. climb of 230' per NM to 5600, or 1900-3 for climb in visual conditions.

**Rwy 35**, std. w/min. climb of 280' per NM to 5700, or 1900-3 for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 17**, climbing left turn to 9000 on heading 045° and MRF VOR/DME R-185 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure.

**Rwy 35**, climbing right turn to 9000 on heading 065° and MRF VOR/DME R-190 to MRF VOR/DME, or for climb in visual conditions, cross Presidio Lely Intl airport at or above 4700, then climb to 9000 on heading 021° and MRF VOR/DME R-197 to MRF VOR/DME. When executing VCOA, notify ATC prior to departure.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, brush abeam DER, left and right of centerline, up to 10' AGL/2929' MSL.

Power line 990' from DER, 762' left of centerline, 86' AGL/3005' MSL.

Vehicles on road, 990' from DER, 762' left of centerline, 17' AGL/2936' MSL.

**Rwy 35**, brush abeam DER, left and right of centerline, up to 10' AGL/3089' MSL.

Powerlines beginning 2978' from DER, 749' right of centerline, up to 86' AGL/3205' MSL.

Vehicles on road, 2978' from DER, 1291' right of centerline, up to 17' AGL/3016' MSL.

# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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# TAKEOFF MINIMUMS, (OBSTACLE) DEPARTURE PROCEDURES, AND DIVERSE VECTOR AREA (RADAR VECTORS)

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## ROBSTOWN, TX

### NUECES COUNTY (RBO)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 30JAN20 (20030) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 13**, std. w/min. climb of 267' per NM to 1400 or 1400-2½ for climb in visual conditions.

##### DEPARTURE PROCEDURE:

**Rwy 13**, climb heading 129° to 1400 before turning eastbound or northbound. For climb in visual conditions, cross Nueces County airport at or above 1300' MSL before proceeding on course. When executing VCOA, notify ATC prior to departure.

**Rwy 31**, climb heading 309° to 700 before turning southeast bound.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 13**, tower 4.8 NM from DER, 5070' right of centerline, 989' AGL/1049' MSL.

Poles beginning 1005' from DER, 347' right of centerline, up to 42' AGL/116' MSL.

Poles, vehicles on road, post, transmission tower and grain bin/silo beginning at DER, 69' left of centerline, up to 62' AGL/136' MSL.

**Rwy 31**, vehicles on road and pole beginning 2' from DER, 250' right of centerline, 15' AGL/93' MSL.

## ROCKPORT, TX

### ARANSAS COUNTY (RKP)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 15MAR07 (07074) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, road plus vehicle 500' from DER, 593' left of centerline, 17' AGL/40' MSL.

**Rwy 18**, antenna 5599' from DER, 602' left of centerline, 160' AGL/171' MSL.

**Rwy 32**, road plus vehicle 291' from DER, 533' left of centerline, 17' AGL/40' MSL.

**Rwy 36**, road plus vehicle 576' from DER, 597' left of centerline, 17' AGL/40' MSL.

## ROCKSPRINGS, TX

### EDWARDS COUNTY (ECU)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 28SEP06 (06271) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 14**, multiple trees beginning 1076' from DER, 22' right of centerline, up to 100' AGL/2459' MSL.

**Rwy 32**, fence 101' from DER, 35' left of centerline, 5' AGL/2374' MSL.

Multiple trees beginning 318' from DER, 71' left of centerline, up to 100' AGL/2479' MSL.

Multiple trees beginning 992' from DER, 532' right of centerline, up to 100' AGL/2479' MSL.

## SAN ANGELO, TX

### SAN ANGELO RGNL/MATHIS FLD (SJT)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 26AUG10 (21112) (FAA)

##### DEPARTURE PROCEDURE:

**Rwy 27**, climb to 2500 before turning right.

**Rwy 36**, climb to 2600 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, fence 8' from DER, 490' right of centerline, 3' AGL/1896' MSL.

**Rwy 18**, multiple trees and poles beginning 112' from DER, 183' left of centerline, up to 43' AGL/1962' MSL.

Multiple trees and poles beginning 1076' from DER, 114' right of centerline, up to 47' AGL/1966' MSL.

Catenary 1779' from DER, 457' right of centerline, 45' AGL/1964' MSL.

**Rwy 27**, multiple trees beginning 482' from DER, 74' left of centerline, up to 24' AGL/1933' MSL.

Light pole 1040' from DER, 252' left of centerline, 22' AGL/1931' MSL.

Tree 538' from DER, 226' right of centerline, 21' AGL/1930' MSL.

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## SAN ANTONIO, TX

### BOERNE STAGE FLD (5C1)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 18JAN07 (22027) (FAA)

#### DEPARTURE PROCEDURE:

**Rwy 17**, climb heading 169° to 2000 before turning westbound.

**Rwy 35**, climb heading 349° to 2800 before turning westbound.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, tree, pole beginning 20' from DER, 34' left of centerline, up to 1446' MSL.

Tree, pole beginning 47' from DER, 12' right of centerline, up to 1410' MSL.

Pole, tree beginning 788' from DER, 526' left of centerline, up to 1448' MSL.

Trees beginning 1005' from DER, 566' left of centerline, up to 1451' MSL.

Tree 2244' from DER, 986' right of centerline, 1450' MSL.

Tree 2327' from DER, 1069' right of centerline, 1455' MSL.

Tree 2464' from DER, 1005' left of centerline, 1452' MSL.

Tree 2465' from DER, 1093' right of centerline, 1457' MSL.

Tree 2531' from DER, 1082' left of centerline, 1454' MSL.

Trees beginning 2569' from DER, 980' right of centerline, up to 1471' MSL.

Trees beginning 2659' from DER, 1037' right of centerline, up to 1476' MSL.

**Rwy 35**, building beginning 3' from DER, 221' right of centerline, up to 1400' MSL.

Trees beginning 79' from DER, 175' right of centerline, up to 1412' MSL.

Tree, pole beginning 103' from DER, 8' left of centerline, up to 1416' MSL.

Trees beginning 163' from DER, 23' right of centerline, up to 1431' MSL.

Pole, tree beginning 207' from DER, 37' left of centerline, up to 1418' MSL.

Pole, tree beginning 246' from DER, 103' left of centerline, up to 1422' MSL.

Trees beginning 437' from DER, 573' left of centerline, up to 1426' MSL.

Trees beginning 584' from DER, 78' left of centerline, up to 1428' MSL.

Trees beginning 778' from DER, 371' left of centerline, up to 1430' MSL.

## SAN ANTONIO INTL (SAT)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 02MAR17 (17061) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 13R**, antenna on rtr tower, 1034' from DER, 723' right of centerline, 42' AGL/820' MSL.

Building 3801' from DER, 1488' right of centerline, 117' AGL/881' MSL.

**Rwy 22**, antenna on hangar and flagpole 1198' from DER, 700' right of centerline, 39' AGL/825' MSL.

Poles beginning 2209' from DER, 1041' right of centerline, up to 23' AGL/869' MSL.

Sign 2713' from DER, 1034' right of centerline, 71' AGL/857' MSL.

**Rwy 31L**, pole 1931' from DER, 911' left of centerline, 42' AGL/867' MSL.

Poles beginning 2356' from DER, 913' left of centerline, up to 42' AGL/892' MSL.

Sign 2435' from DER, 1032' right of centerline, 42' AGL/873' MSL.

Tower 2766' from DER, 834' left of centerline, 54' AGL/891' MSL.

**Rwy 31R**, rod on ol gs 1261' from DER, 591' left of centerline, 57' AGL/854' MSL.

## STINSON MUNI (SSF)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 14FEB08 (08045) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 9**, std. w/min. climb of 225' per NM to 1900 or 1000-2½ for climb in visual conditions.

**Rwy 27**, 300-1¼ or std. w/min. climb of 221' per NM to 900, or alternatively, with std. takeoff minimums and normal 200' per NM climb gradient, takeoff must occur no later than 1700' prior to DER.

#### DEPARTURE PROCEDURE:

**Rwy 9**, for climb in visual conditions, cross Stinson Muni airport at or above 1400 MSL before proceeding on course.

**Rwy 14**, climb heading 137° to 1200 before turning left.

**Rwy 32**, climb heading 317° to 1500 before turning right.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 9**, vehicle on road 285' from DER, 380' left of centerline, 15' AGL/584' MSL.

Trees beginning 1653' from DER, 435' right of centerline, up to 70' AGL/629' MSL.

**Rwy 14**, vehicle on road 114' from DER, on centerline extending 373' left of centerline, up to 15' AGL/564' MSL.

Trees beginning 72' from DER, 79' right of centerline, up to 70' AGL/607' MSL.

Trees beginning 232' from DER, 54' left of centerline, up to 70' AGL/618' MSL.

Transmission line tower 4205' from DER, 133' right of centerline, 119' AGL/663' MSL.

**Rwy 27**, fence 41' from DER, 30' right of centerline, 8' AGL/584' MSL.

Vehicle on road 108' from DER, 202' right of centerline, 15' AGL/584' MSL.

Vehicle on road 123' from DER, 113' right of centerline, 15' AGL/596' MSL.

Trees and poles beginning 229' from DER, 117' right of centerline, up to 70' AGL/645' MSL.

Trees and poles beginning 599' from DER, 6' left of centerline, up to 70' AGL/634' MSL.

Tank beginning 1.32 NM from DER, 1338' right of centerline, 179' AGL/799' MSL.

Building 1422' from DER, 432' right of centerline, 40' AGL/627' MSL.

Building 2133' from DER, 36' left of centerline, 55' AGL/635' MSL.

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## SAN ANTONIO, TX (CON'T)

### STINSON MUNI (SSF) (CON'T)

**Rwy 32**, fence 17' from DER, 80' left of centerline, 8' AGL/578' MSL.

Vehicle on road 54' from DER, 199' left of centerline, 15' AGL/586' MSL.

Trees beginning 164' from DER, 125' right of centerline, up to 70' AGL/639' MSL.

Trees and poles beginning 43' from DER, 41' left of centerline, up to 75' AGL/668' MSL.

## SINTON, TX

### ALFRED C. BUBBA THOMAS (T69)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 13NOV14 (14317) (FAA)

##### TAKEOFF MINIMUMS:

**Rwys 3, 21**, NA-Environmental.

##### DEPARTURE PROCEDURE:

**Rwy 14**, climb runway heading to 800 prior to turning east.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 32**, vehicle on road 29' from DER, 308' right of centerline, 15' AGL/64' MSL.

## SONORA, TX

### SONORA MUNI (SOA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 20AUG15 (15232) (FAA)

##### TAKEOFF MINIMUMS:

**Rwy 18**, 300-1 or std. w/min. climb gradient of 553' per NM to 2400.

##### DEPARTURE PROCEDURE:

**Rwy 18**, climb heading 182° to 2900 before turning left.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 18**, buildings beginning 683' from DER, left and right of centerline, up to 27' AGL/2163' MSL.

Trees and terrain beginning 2233' from DER, 686' right of centerline, up to 50' AGL/2309' MSL.

Tower 4860' from DER, 1458' right of centerline, 75' AGL/2287' MSL.

**Rwy 36**, fence beginning 2' from DER, left and right of centerline, up to 5' AGL/2144' MSL.

Vehicles on road beginning 8' from DER, left and right of centerline, up to 10' AGL/2149' MSL.

Tree 65' from DER, 462' right of centerline, 48' AGL/2178' MSL.

Tree 247' from DER, 337' left of centerline, 47' AGL/2187' MSL.

Trees beginning 278' from DER, 439' right of centerline, up to 27' AGL/2157' MSL.

Tree 759' from DER, 508' left of centerline, 15' AGL/2195' MSL.

Trees and terrain beginning 981' from DER, 258' left of centerline, up to 39' AGL/2269' MSL.

## TAYLOR, TX

### TAYLOR MUNI (T74)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1A 17AUG17 (17229) (FAA)

##### TAKEOFF OBSTACLE NOTES:

**Rwy 17**, transmission line towers beginning 2212' from DER, 17' left of centerline, up to 50' AGL/656' MSL.

Transmission line towers beginning 2298' from DER, 463' right of centerline, up to 85' AGL/649' MSL.

Transmission line tower 2365' from DER, 1041' right of centerline, 110' AGL/661' MSL.

**Rwy 35**, vehicles on road 773' from DER, 544' left of centerline, 630' MSL.

Pole and tree beginning 829' from DER, 442' left of centerline, up to 28' AGL/642' MSL.

Vehicles on road 1105' from DER, 427' right of centerline, 635' MSL.

Tree 1129' from DER, 415' right of centerline, 639' MSL.

Poles beginning 1150' from DER, 474' right of centerline, up to 30' AGL/644' MSL.

## TEMPLE, TX

### DRAUGHON-MILLER CENTRAL TEXAS RGNL (TPL)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 4 23SEP10 (10266) (FAA)

##### DEPARTURE PROCEDURE:

**Rwy 2**, climb on heading between 085° CW to 200° from DER, or climb on heading between 200° CW to 345° from DER to 3600 before proceeding on course or minimum climb of 250' per NM to 3200 for all other courses.

**Rwy 33**, climb on heading between 070° CW to 155° from DER, or climb on heading between 155° CW to 330° from DER to 3600 before proceeding on course or minimum climb of 240' per NM to 3200 for all other courses.

##### TAKEOFF OBSTACLE NOTES:

**Rwy 2**, tree 279' from DER, 362' right of centerline, 11' AGL/680' MSL.

Bushes and tree beginning 176' from DER, 416' left of centerline, up to 30' AGL/699' MSL.

**Rwy 15**, bush 60' from DER, 210' left of centerline, 11' AGL/680' MSL.

**Rwy 20**, hangars beginning 548' from DER, 571' right of centerline, up to 18' AGL/697' MSL.

**Rwy 33**, trees beginning 307' from DER, 474' right of centerline, up to 32' AGL/701' MSL.

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## UVALDE, TX

### GARNER FLD (UVA)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 05MAY11 (22139) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 15**, trees and poles beginning 70' from DER, 374' left of centerline, up to 100' AGL/1039' MSL.

Trees and poles beginning 208' from DER, 359' right of centerline, up to 100' AGL/1059' MSL.

**Rwy 33**, vehicle on roadway 622' from DER, left and right of centerline, up to 15' AGL/966' MSL.

Trees beginning 744' from DER, 636' left of centerline, up to 100' AGL/1059' MSL.

Trees beginning 861' from DER, 269' right of centerline, up to 100' AGL/1049' MSL.

## VAN HORN, TX

### CULBERSON COUNTY (VHN)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 1 15AUG19 (19227) (FAA)

#### TAKEOFF MINIMUMS:

**Rwy 25**, NA-Obstacles.

#### DEPARTURE PROCEDURE:

**Rwys 3, 7, 21**, Use JURDU DEPARTURE.

#### TAKEOFF OBSTACLE NOTES:

**Rwy 3**, tree, vegetation beginning 16' from DER, 133' right of centerline, up to 11' AGL/3928' MSL.

Trees, vegetation beginning 45' from DER, 147' left of centerline, up to 11' AGL/3929' MSL.

Tree, traverse way beginning 135' from DER, 487' right of centerline, up to 17' AGL/3930' MSL.

Trees, traverse way beginning 248' from DER, 343' right of centerline, up to 18' AGL/3931' MSL.

**Rwy 7**, vegetation beginning 60' from DER, 12' right of centerline, up to 100' AGL/3918' MSL.

Vegetation 119' from DER, 215' left of centerline, 100' AGL/3915' MSL.

Vegetation beginning 148' from DER, 12' left of centerline, up to 100' AGL/3918' MSL.

**Rwy 21**, tree, vegetation beginning 49' from DER, 291' right of centerline, up to 10' AGL/3969' MSL.

Vegetation beginning 84' from DER, 404' left of centerline, up to 3961' MSL.

Vegetation 4132' from DER, 1604' right of centerline, 100' AGL/3990' MSL.

## WACO, TX

### MC GREGOR EXEC (PWG)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

AMDT 2 13DEC90 (22139) (FAA)

#### TAKEOFF MINIMUMS:

**Rwys 4, 17, 22, 35**, 2000-3 or std. w/min. climb of 280' per NM to 3000.

#### DEPARTURE PROCEDURE:

**Rwys 17, 22**, climb via ACT R-195 to 3000 before proceeding on course.

**Rwys 4, 35**, climb runway heading to 3000 before proceeding on course.

## TSTC WACO (CNW)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG-A 05DEC19 (19339) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 17L**, terrain 104' from DER, 473' right of centerline, 460' MSL.

Terrain 198' from DER, 467' right of centerline, 464' MSL.

Poles beginning 1123' from DER, 584' left of centerline, up to 45' AGL/493' MSL.

**Rwy 17R**, vehicles on roads beginning at DER, 365' right of centerline, up to 10' AGL/479' MSL.

Trees beginning 750' from DER, 482' right of centerline, up to 66' AGL/514' MSL.

Trees beginning 870' from DER, 238' right of centerline, up to 81' AGL/530' MSL.

Tree 1239' from DER, 449' left of centerline, 497' MSL.

Tree 1568' from DER, 629' left of centerline, 500' MSL.

Tree 1924' from DER, 73' left of centerline, 512' MSL.

**Rwy 35L**, aircraft on taxiway at DER, on centerline, 65' AGL/532' MSL.

Aircraft on taxiway 783' from DER, 478' left of centerline, 65' AGL/534' MSL.

Aircraft on taxiway 808' from DER, 315' right of centerline, 65' AGL/518' MSL.

Tree 2349' from DER, 669' left of centerline, 537' MSL.

Tree 2877' from DER, 1044' left of centerline, 539' MSL.

**Rwy 35R**, tree 2082' from DER, 897' left of centerline, 523' MSL.

## WACO RGNL (ACT)

#### TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

ORIG 23SEP10 (10266) (FAA)

#### TAKEOFF OBSTACLE NOTES:

**Rwy 1**, rising terrain beginning 11' from DER, 34' right of centerline, up to 504' MSL.

Pole 1170' from DER, 593' left of centerline, 34' AGL/534' MSL.

Tree 1674' from DER, 794' right of centerline, 80' AGL/581' MSL.

**Rwy 19**, rod 590' from DER, 257' right of centerline, 40' AGL/524' MSL.

**Rwy 32**, trees beginning 501' from DER, 17' left of centerline, up to 70' AGL/562' MSL.

Trees beginning 836' from DER, 30' right of centerline, up to 80' AGL/609' MSL.

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**WESLACO, TX****MID VALLEY (TXW)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

AMDT 1 02MAR17 (17061) (FAA)

**DEPARTURE PROCEDURE:****Rwy 14**, climbing left turn heading 360° to 1800 before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 14**, road, fence, sign, tree, bldg, beginning 4' from DER, 174' left of centerline, up to 84' MSL.

Road, fence, beginning 18' from DER, 442' right of centerline, up to 82' MSL.

Road 71' from DER, 502' right of centerline, 83' MSL.

Tree, flagpole, road, pole, beginning 94' from DER, 421' left of centerline, up to 26' AGL/90' MSL.

Flagpole, road, beginning 110' from DER, 373' left of centerline, up to 31' AGL/96' MSL.

Tree, road, fence, beginning 161' from DER, 429' left of centerline, up to 33' AGL/98' MSL.

Pole, beginning 220' from DER, 408' left of centerline, up to 32' AGL/99' MSL.

Pole, tree, beginning 242' from DER, 412' left of centerline, up to 34' AGL/101' MSL.

Light pole, beginning 284' from DER, 462' left of centerline, up to 38' AGL/103' MSL.

Pole, tree, lt pole, beginning 289' from DER, 349' left of centerline, up to 37' AGL/105' MSL.

Pole, tree, lt pole, beginning 360' from DER, 307' left of centerline, up to 39' AGL/106' MSL.

Pole 499' from DER, 475' right of centerline, 31' AGL/98' MSL.

Pole 499' from DER, 471' right of centerline, 30' AGL/99' MSL.

Tower, tree, pole, lt pole, ant, flagpole, bldg, beginning 511' from DER, 264' left of centerline, up to 60' AGL/131' MSL.

Catenary, road, pole, beginning 520' from DER, 468' right of centerline, up to 33' AGL/100' MSL.

Pole, tree, beginning 546' from DER, 337' right of centerline, up to 33' AGL/101' MSL.

Tree, lt pole, catenary, beginning 745' from DER, 268' right of centerline, up to 42' AGL/108' MSL.

Antenna, pole, catenary, beginning 1422' from DER, 437' right of centerline, up to 59' AGL/127' MSL.

Flagpole, pole, beginning 1711' from DER, 763' right of centerline, up to 75' AGL/142' MSL.

**Rwy 32**, road, fence, beginning 17' from DER, 345' left of centerline, up to 82' MSL.

Tree 64' from DER, 510' left of centerline, 29' AGL/95' MSL.

Tree 69' from DER, 496' left of centerline, 32' AGL/97' MSL.

Pole 109' from DER, 524' left of centerline, 33' AGL/100' MSL.

Pole, road, tree, bldg, beginning 111' from DER, 261' left of centerline, up to 38' AGL/103' MSL.

Road, beginning 562' from DER, 396' right of centerline, up to 87' MSL.

Road 630' from DER, 391' right of centerline, 88' MSL.

Road, beginning 659' from DER, 75' right of centerline, up to 89' MSL.

Trees, beginning 881' from DER, 571' left of centerline, up to 40' AGL/106' MSL.

**WINK, TX****WINKLER COUNTY (INK)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG-A 10MAR11 (11069) (FAA)

**DEPARTURE PROCEDURE:****Rwy 13**, climb heading 147° to 3400 before proceeding on course.**TAKEOFF OBSTACLE NOTES:****Rwy 4**, power lines beginning 524' from DER, right and left of centerline, up to 30' AGL/2829' MSL.

Trees beginning 742' from DER, right and left of centerline, up to 50' AGL/2859' MSL.

**Rwy 13**, trees beginning 133' from DER, 307' right of centerline, up to 50' AGL/2822' MSL.

Vehicles on road beginning 535' from DER, right and left of centerline, up to 15' AGL/2829' MSL.

**Rwy 31**, trees beginning 49' from DER, 396' left of centerline, up to 50' AGL/2832' MSL.

Trees beginning 1563' from DER, 585' right of centerline, up to 50' AGL/2874' MSL.

**WINTERS, TX****WINTERS MUNI (77F)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 25AUG11 (11237) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 17**, multiple trees and fence beginning 428' from DER, 45' left of centerline, up to 25' AGL/1914' MSL.

Multiple trees and terrain beginning 110' from DER, 188' right of centerline, up to 12' AGL/1895' MSL.

**YOAKUM, TX****YOAKUM MUNI (T85)****TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES**

ORIG 10MAR11 (11069) (FAA)

**TAKEOFF OBSTACLE NOTES:****Rwy 13**, vehicle on road, 179' from DER, 237' left of centerline, up to 15' AGL/364' MSL.**Rwy 31**, vehicle on road, 77' from DER, 257' right of centerline, up to 15' AGL/384' MSL.

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