

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> LUBBOCK PRESTON SMITH INTL	<u>AIRPORT ID</u> KLBB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> LUBBOCK	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 3282	<u>TDZE</u> 3258	<u>SUPERSEDED</u> RNAV (GPS) RWY 8	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 01/05/2017	<u>MAG VAR</u> 6E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 JULY 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
SLIDE		JUVAL		TF	FB	2.00	318.76	13.52	5200
JUVAL	IAF	KAPWU		TF	FB	1.00	014.76	16.10	5200
SPADE	IAF	KAPWU		TF	FB	1.00	152.43	16.10	5200
KAPWU	IF	CAVSI		TF	FB	1.00	083.55	6.24	4700
CAVSI	FAF	WUMBA/1.80 NM TO RW08		TF	FB	0.30	083.61	2.57	
WUMBA/1.80 NM TO RW08		RW08	MAP	TF	FO	0.30	083.61	1.80	
RW08	MAP	3458 MSL		CA			083.61		
3458 MSL		CELRA		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW08

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT CELRA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT KAPWU
3. FAC: 083.61

FAF: CAVSI

DIST FAF TO MAP: 4.37

DIST FAF TO THLD: 4.37
4. MIN ALT: KAPWU 5200, CAVSI 4700, WUMBA/1.80 NM TO RW08 3880*
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

200 HAT: 0.47
6. MIN GP INCPT: 4700

GP ALT AT FAF : CAVSI 4700

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 50.0
8. MSA FROM: RW08 5300

PBN EQUIPMENT REQUIREMENTS NOTES

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10C OR ABOVE 52C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPADE ON V62 NORTHWEST BOUND AND ARRIVALS AT SLIDE ON V76-81 SOUTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.04 NM TO RW08*
*LNAV ONLY
WAAS CHANNEL #97327
REFERENCE PATH ID: W08A
CHART FAS OBST: 3379 CTRLTWR 333958N/1014912W.
3484 AAO 334036N/1015402W.
HOLD E, RT, 263.79 INBOUND
LTP HAE: 968 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT E 900-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	3458	3/4	200	3458	3/4	200	3458	3/4	200	3458	3/4	200	3458	3/4	200
LNAV/VNAV DA	3544	7/8	286	3544	7/8	286	3544	7/8	286	3544	7/8	286	3544	7/8	286
LNAV MDA	3640	1	382	3640	1	382	3640	1 1/8	382	3640	1 1/8	382	3640	1 1/8	382
CIRCLING	3720	1	438	3740	1	458	3880	1 1/2	598	3940	2	658	4100	3	818



CHANGES - REASONS

- 1. INCREASED ALTITUDE FOR SLIDE TO JUVAL, JUVAL TO KAPWU, AND KAPWU TO CAVSI FROM 5100 MSL TO 5200 MSL. - PURPOSE OF PROJECT WAS TO INCREASE SEGMENT ALTITUDES TO 5200 MSL TO MATCH INCREASE IN MVA SECTOR.
- 2. CHANGED TERMINAL ROUTE FROM: "CAVSI (FAF) TO WUMBA/1.40 NM TO RW08 083.61/2.97" TO: "CAVSI (FAF) TO WUMBA/1.80 NM TO RW08 083.61/2.57." - STEPDOWN FIX MOVED TO ENSURE DESCENT STABILITY THROUGHOUT FINAL APPROACH.
- 3. CHANGED TERMINAL ROUTE FROM: "WUMBA/1.40 NM TO RW08 TO RW08 083.61/1.40" TO: "WUMBA/1.80 NM TO RW08 TO RW08 083.61/1.80". - STEPDOWN FIX MOVED TO ENSURE DESCENT STABILITY THROUGHOUT FINAL APPROACH.
- 4. CHANGED CHART FAS OBST FROM 3379 ROD 333958N/1014912W TO 3379 CTRLTWR 333958N/1014912W. - NEW SURVEY DATA REVEALED NEW OBSTACLE DATA SET WHICH INCLUDED NEW CONTROLLING OBSTACLES.
- 5. ADDED 7:1 EXEMPTED AAO: 3484 AAO 334036N/1015402W IN ADDITIONAL FLIGHT DATA. - ORDER 8260.3C CHAPTER 2 APPLIED TO OBSTACLE, DOCUMENTED IAW 8260.19H.
- 6. ADDED CHART VDP AT 1.04 NM TO RW08* AND *LNAV ONLY IN ADDITIONAL FLIGHT DATA. - PROCEDURE PREVIOUSLY UNABLE TO HAVE VDP DUE TO PROXIMITY OF LNAV SDF TO RWY, LNAV SDF MOVED BACK .3 NM ALLOWING VDP TO BE CHARTED.
- 7. ON LINE 4, RAISED ALTITUDE AT KAPWU FROM 5100 FT MSL TO 5200 FT MSL AND CHANGED WUMBA DISTANCE/ALTITUDE FROM 1.40 NM TO RW08 3740* TO 1.80 NM TO RW08 3880*. - PURPOSE OF PROJECT WAS TO INCREASE SEGMENT ALTITUDES TO 5200 MSL TO MATCH INCREASE IN MVA SECTOR, STEPDOWN FIX MOVED TO ENSURE DESCENT STABILITY THROUGHOUT FINAL APPROACH.
- 8. ON LINE 7, CHANGED VISUAL SURFACE OBSTACLE DATA FROM 34:1 IS CLEAR TO 20:1 IS CLEAR 34:1 IS CLEAR. - PREVIOUS CRITERIA ONLY REQUIRED DOCUMENTATION OF 34:1 SURFACE ON LINE 7, UPDATED 8260.19H STIPULATES DOCUMENTATION FOR BOTH 20:1 AND 34:1 VISUAL SURFACES.
- 9. INCREASED LNAV/VNAV DA FROM 3543 FT MSL TO 3544 FT MSL. - LNAV/VNAV DA WITHOUT ADJUSTMENTS CAME TO 3540, PREVIOUS AMENDMENT ADDED 3 FT DUE TO MA PEN, CURRENT AMENDMENT REQUIRES ADDING 4 FT DUE TO MA PEN.
- 10. CHANGED CHART NOTE FROM: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12C (11F) OR ABOVE 52C (126F) TO: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -10C OR ABOVE 52C. - PREVIOUS VALUES CALCULATED BASED ON 3-YEAR WEATHER DATA COMPILED FROM 2012-2014, CURRENT VALUES CALCULATED BASED ON 5-YEAR WEATHER DATA COMPILED FROM 2013-2017.
- 11. CHANGED CHART NOTE FROM DME/DME RNP-0.3 NA TO PBN EQUIPMENT REQUIREMENTS NOTE: RNP APCH. - DME/DME NOTE NO LONGER APPLICABLE, PBN EQUIPMENT REQUIREMENTS NOTES NOW REQUIRED PER 8260.19H AND MEMO 257.



COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: AMGR, LBB ATCT, LBB APP CON, ZFW, ATA

FLIGHT CHECKED BY

ANTHONY D VALLERA

Digitally signed by
ROBERT G HAMILTON
Apr 23, 2018

OFFICE

FICO

DATE

4/18/18

DEVELOPED BY

ROBERT G HAMILTON (JOSHUA LEETE)

Digitally signed by
ROBERT G HAMILTON

OFFICE

AJV-5422

DATE

02/23/2018

APPROVED BY

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Apr 23, 2018

OFFICE

AJV-5420

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLBB
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	333944.0200N
LTP/FTP LONGITUDE	1014922.4350W
LTP/FTP ELLIPSOIDAL HEIGHT	+00968
FPAP LATITUDE	333944.5370N
FPAP LONGITUDE	1014735.6885W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	8F481DD3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+09931
FPAP ORTHOMETRIC HEIGHT	+09931

