

**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 ID</u> E41	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> BIG LAKE	<u>STATE</u> TX		
<u>AIRPORT ELEVATION</u> 2706	<u>TDZE</u> 2706	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 01/30/2020	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 071/30 CW 251/30	NOPT	IVIDE	IF/IAF	5000
2. 251/30 CW 341/30		HISPI	IAF	5000
3. 341/30 CW 071/30		COLKO	IAF	5000

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>
COLKO	IAF	IVIDE	NOPT	TF	FB	1.00	071.26	5.00	5000
HISPI	IAF	IVIDE	NOPT	TF	FB	1.00	251.36	5.00	5000
IVIDE	IF/IAF	RUGPY		TF	FB	1.00	161.31	6.00	4500
RUGPY	FAF	RW16	MAP	TF	FO	0.30	161.32	5.43	
RW16	MAP	3106 MSL		CA			161.32		
3106 MSL		JEKAB		DF	FO	1.00			5000

MISSED APPROACH

MAP:

LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5000 DIRECT JEKAB AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	HOLD N IVIDE, RT, 161.31 INBOUND, 5000 IN LIEU OF PT (IAF), MAX 6000.					
3.	FAC:	161.32	FAF:	RUGPY	DIST FAF TO MAP:	5.43
4.	MIN ALT:	IVIDE 5000, RUGPY 4500				
5.	DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	
6.	MIN GP INCPT:	GP ALT AT FAF:			OM:	MM:
7.	GP ANGLE:	34:1:	IS CLEAR	20:1:	IS CLEAR	IM:
8.	MSA FROM:					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: VDP NA WHEN USING SJT ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 34 NA AT NIGHT.
CHART NOTE: CIRCLING NA E OF RWY 16-34.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SJT ALTIMETER SETTING AND INCREASE ALL MDAS 240 FEET AND LNAV AND CIRCLING VISIBILITY CAT B/C 1 SM.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.58 NM TO RW16.
HOLD S, RT, 341.36 INBOUND.
FAS OBST: 2805 AAO 311715N/1013006W.
CHART TEXON MOA.
RUGPY TO RW16: 3.05/40.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	3240	1	534	3240	1	534	3240	1 1/2	534		NA				
CIRCLING	3240	1	534	3240	1	534	3280	1 1/2	574		NA				

CHANGES - REASONS

- INCORPORATED CHANGES FROM PREVIOUS P-NOTAMS INTO THE FORM
- PBN REQUIREMENTS NOTE: UPDATED FROM "RNP APCH" TO "RNP APCH - GPS" -- IAW 8260.19K
 - NOTES: UPDATED FROM "CHART NOTES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAN ANGELO ALTIMETER SETTING" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SJT ALTIMETER SETTING AND INCREASE ALL MDAS 240 FEET AND LNAV AND CIRCLING VISIBILITY CAT B/C 1 SM. -- LOCAL WX NOW AVAILABLE, REMOVED RASS ADJUSTMENT.
 - NOTES: ADDED "CHART NOTE: VDP NA WHEN USING SJT ALTIMETER SETTING" -- PER 8260.19K AND FPT REQUEST
 - NOTES: ADDED "CHART NOTE: CIRCLING RWY 34 NA AT NIGHT" -- 20:1 PENETRATIONS
 - NOTES: DELETED "CHART PLANVIEW NOTE: RADAR REQUIRED" --- PBN SPECS UPDATED, NO LONGER REQUIRED.
 - ADDITIONAL FLIGHT DATA: UPDATED FROM "CHART VDP AT 2.26 NM TO RWY 16" TO "CHART VDP AT 1.58 NM TO RWY 16" -- LOWER LNAV MINIMUMS PUBLISHED.
 - MINIMUMS: UPDATED LNAV MDA/HAT ALL CATS FROM 3460/754 TO 3240/534 -- RASS ADJUSTMENT NO LONGER REQUIRED
 - MINIMUMS: UPDATED LNAV VIS CAT B FROM 1 1/4 TO 1, VIS CAT C FROM 2 1/4 TO 1 1/2 -- IAW 8260.3G TABLE 3-3-1.
 - MINIMUMS: UPDATED CIRCLING MDA/HAA CATS A/B FROM 3460/754 TO 3240/534, CAT C MDA/HAA FROM 3460/754 TO 3280/574 -- RASS ADJUSTMENT NO LONGER REQUIRED
 - MINIMUMS: UPDATED CIRCLING VIS CAT B FROM 1 1/4 TO 1, CAT C FROM 2 1/4 TO 1 1/2 -- IAW 8260.3G TABLE 3-3-1.



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
E41	RNAV (GPS) RWY 16	ORIG-B	BIG LAKE	TX	2706	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 071/30 CW 251/30 **TO** IVIDE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-198778)	314434.85N/1015430.09W	3366	250	50	4D	1000				AT634	5000
TERRAIN	313433.00N/1020330.00W	2824 (2800)								AS1500	4300

COMPUTATIONS

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

SEGMENT REMARKS:

LEFT BASE AREA

FROM 251/30 CW 341/30 **TO** HISPI

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>			<u>HMAS</u>	
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-176453)	305943.94N/1011545.28W	3345	250	50	4D	1000				AT655	5000
TERRAIN	310854.00N/1012339.00W	2782 (2800)								AS1500	4300

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
14
CHECKED

RIGHT BASE AREA

FROM

341/30 CW 071/30

TO

COLKO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
WINDMILL (48-210412)	310023.58N/1015429.90W	3613	250	50	4D	1000				AT387	5000
TERRAIN	311403.00N/1021012.00W	3106 (3100)								AS1500	4600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

COLKO

TO

IVIDE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	5.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (48-191004)	312434.18N/1013323.82W	2880	20	3	1A	1000				AT1120	5000
TERRAIN	312427.00N/1013615.00W	2657 (2700)								AS1500	4200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

HISPI

TO

IVIDE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	5.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	312354.00N/1013048.00W	2842	215	8	4B	1000				AT1158	5000
TERRAIN	312357.00N/1013103.00W	2641 (2600)								AS1500	4100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

IVIDE (IF/IAF)

TO

RUGPY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (48-159246)	312136.09N/1013040.17W	2948	20	3	1A	500				AT1052	4500
TERRAIN	311745.00N/1013127.00W	2667 (2700)								AS1500	4200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM

RUGPY

TO

RW16

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	5.43		RW16	534	

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	311715.00N/1013006.00W	2805	215	8	4B	250				XP185	3240

COMPUTATIONS

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

SEGMENT REMARKS:

XP: PREVIOUS RA AND MA ADJUSTMENTS NO LONGER APPLICABLE DUE TO LOCAL WX AVAILABILITY.

HOLD-IN-LIEU OF PT

FROM

IVIDE

TO

P-6

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
		P-6			

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (48-159246)	312136.09N/1013040.17W	2948	20	3	1A	1000				AT1052	5000
TERRAIN	311751.00N/1013303.00W	2719 (2700)								AS1500	4200

COMPUTATIONS

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

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW16

TO

JEKAB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
0.30-1.00											3360
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				5000
WINDMILL (48-132906)	310856.52N/1012619.28W	3176	250	50	4D	1000					4200
TERRAIN	310703.00N/1012906.00W	2755 (2800)								AS1500	4300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TANK (48-198852)	311123.47N/1012835.91W	1.34	534	2872	20	3	1A	300		SI	3240
CATEGORY B											
TANK (48-198852)	311123.47N/1012835.91W	1.90	534	2872	20	3	1A	300		SI	3240
CATEGORY C											
TOWER (48-000152)	311131.00N/1013218.00W	3.00	574	2927	250	50	4D	300		AC50	3280

CIRCLING REMARKS:

MSA/ESA

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZFW ARTCC, SJT FSS

WX SERVICE

AWOS-3PT

LOCATION

E41

HRS OPERATION

24

ALTIMETER SOURCE

E41

DISTANCE

WMSCR

Y

ADJUSTMENTS

0



<u>AIRPORT ID</u> E41	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> BIG LAKE	<u>STATE</u> TX	<u>AIRPORT ELEVATION</u> 2706	<u>FACILITY</u> RNAV
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> SJT	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> SJT	<u>DISTANCE</u> 51.25	<u>WMSCR</u> Y	<u>ADJUSTMENTS</u> 229

WX REMARKS:

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW09	BSC-G	
RW27	BSC-G	
RW16 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	
RW34 - MIRL (PCL), PAPI-2L (PCL)	NPI-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 30.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	1005
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	CIRCLING
20:1	
2734 POLE (48-198859) 311129.8800N/1012812.2600W (9.13)	2730 POLE (48-198845) 311128.5200N/1012817.0000W (2.18)
2725 POLE (48-198860) 311129.2800N/1012817.0000W (0.96)	
<u>PENETRATIONS REMARKS:</u>	



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT25 FT

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.10
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	169.32
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	2800
DISTANCE FROM	THLD	TO 1500FT POINT	5.03
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.76
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	169.32
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	2800

THRESHOLD COORDINATES (IF STR-IN)	311215.44N/1012825.37W
ARP COORDINATES	311155.05N/1012830.88W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 16 DISTANCE 0.50 NM
FAF COORDINATES	311736.11N/1012935.73W
FIX NAME COORDINATES	

REMARKS

THLD DISPLACED 1005FT, ACTUAL COORDINATES: 311225.22N/1012827.52W

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RONI SECAIDA	AJV-A431	05/25/2026	AERONAUTICAL INFORMATION SPECIALIST

