

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25

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

<u>AIRPORT ID</u> KTPA	<u>PROCEDURE NAME</u> LOC RWY 1R	<u>ORIGINAL/AMENDMENT</u> 4B	<u>CITY</u> TAMPA	<u>STATE</u> FL		
<u>AIRPORT ELEVATION</u> 26	<u>TDZE</u> 21	<u>SUPERSEDED</u> LOC RWY 1R	<u>ORIGINAL/AMENDMENT</u> 4A	<u>DATED</u> 12/31/2020	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> I-TWJ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
LAL VORTAC		MUWTY INT/I-TWJ 14.33 DME					242.19	31.16	3000
MUWTY INT/I-TWJ 14.33 DME	IF/IAF	ANAZE INT/I-TWJ 8.32 DME					006.73	6.01 (I-TWJ)	2600

MISSED APPROACH

MAP:

6.80 NM AFTER ANAZE INT/I-TWJ 8.32 DME OR AT I-TWJ 1.52 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2000 DIRECT LAL VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S MUWTY, RT, 006.73 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 4500.
3. FAC: 006.73 FAF: ANAZE INT/I-TWJ 8.32 DME DIST FAF TO MAP: 6.80 DIST FAF TO THLD: 6.80
4. MIN ALT: MUWTY INT/I-TWJ 14.33 DME 2600, ANAZE INT/I-TWJ 8.32 DME 2600, ZELTO INT/I-TWJ 4.83 DME 1300
8. MSA FROM: PIE VORTAC 2700

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



ADDITIONAL FLIGHT DATA:
CHART IN PLANVIEW: LAL 31.16 DME AT MUWTY.
HOLD W, RT, 101.00 INBOUND.
CHART FAS OBST: 155 BLDG 275719N/0823133W.
CHART 189 BUILDING 275301N/0823144W.
CHART VDP AT 2.74 DME
DISTANCE VDP TO THLD 1.21 NM.
CHART CIRCLING ICON.
CHART KMCF IN PLAN AND PROFILE VIEWS.
ANAZE TO RW01R: 3.50/55.

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

ALTERNATE: NA ☐ CAT A, B 1300-2, CAT C, D 1300-3

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
S-01R	1300	1 1/4	1279	1300	1 1/2	1279	1300	3	1279	1300	3	1279			
CIRCLING	1300	1 1/4	1274	1300	1 1/2	1274	1300	3	1274	1300	3	1274			
ZEL TO FIX MINIMUMS (DUAL VOR RECEIVERS OR DME REQUIRED)															
S-01R	460	1	439	460	1	439	460	1 3/8	439	460	1 3/8	439			
CIRCLING	560	1	534	560	1	534	680	1 3/4	654	980	3	954			

CHANGES - REASONS
1. PREVIOUSLY CHARTED CHANGES FROM P-NOTAM ACTIONS FOR AMENDMENT 4-A HAVE BEEN INCORPORATED ON THIS FORM.
2. UPDATED PROFILE LINE 2: ADDED MAX 4500. - REQUIRED IAW 8260.19I
3. REMOVED CHART NOTE "ADF REQUIRED" - NO LONGER REQUIRED, MISSED APPROACH CHANGED TO GO TO LAL VORTAC.
4. UPDATED CHART PROFILE NOTE: FROM "VGSI AND DESCENT ANGLES NOT COINCIDENT." TO "VGSI AND DESCENT ANGLE NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})." - IAW 8260.19I.
5. DECREASED S-1R HAT FROM "1280" TO "1279" - TDZE CHANGED FROM 20 FT TO 21 FT.
6. DECREASED S-1R ZEL TO FIX MINIMUMS HAT FROM "440" TO "439" - TDZE CHANGED FROM 20 FT TO 21 FT.

4/12/2021: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 3/8/2021
1. PROFILE LINE 4, ADDED "MUWTY INT/I-TWJ 14.33 DME 2600"

COORDINATED WITH:
A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZMA, ZJX, TPA ATCT, TPA APP CON, APT MGR

FLIGHT CHECKED BY
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY
DONALD H. LANIER (CHRISTOPHER SCHONES)
Digitally signed by DONALD H LANIER
Apr 13, 2021

APPROVED BY
LONNIE EVERHART
Digitally signed by DONALD H LANIER
Apr 13, 2021

OFFICE

OFFICE
AJV-A431
OFFICE
AJV-A430

DATE

DATE
01/11/2021
DATE

TITLE
MANAGER

QUALITY
18
CHECKED

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
KTPA	LOC RWY 1R	4B	TAMPA	FL	26	I-TWJ

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TO
LAL VORTAC MUWTY INT/I-TWJ 14.33 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	31.16											
<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>
1.TOWER (12-004378)	274910.84N/0821538.00W		1667	20	3	1A	1000				AT333	3000
2.TERRAIN	275942.00N/0820939.00W		155 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM TO
MUWTY INT/I-TWJ 14.33 DME (IF/IAF) ANAZE INT/I-TWJ 8.32 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	6.01											
<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>
3.AAO	274503.00N/0822751.00W		204	50	20	2C	500				AT1896	2600
4.TERRAIN	275041.00N/0823057.00W		14 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL

FROM
ANAZE INT/I-TWJ LOC 8.32 DME

TO
ZELTO INT/I-TWJ 4.83 DME

RNP	DISTANCE 3.50	PAT	MAP	HAT 1279	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.BLDG (12-005102)	275301.11N/0823143.71W		189	500	50	5D	250				AC50 XL40 DG771	1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: STEPDOWN

FROM
ZELTO INT/I-TWJ 4.83 DME

TO
6.80 NM AFTER ANAZE INT/I-TWJ 8.32 DME OR AT I-TWJ 1.52 DME

RNP	DISTANCE 3.30	PAT	MAP 6.80 NM AFTER ANAZE INT/I-TWJ 8.32 DME OR AT I-TWJ 1.52 DME	HAT 439	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.BLDG (12-023420)	275718.72N/0823132.54W		155	20	3	1A	250				SA-18 XP60	460

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP=60 TO RETAIN CURRENT MINIMUM.



HOLD-IN-LIEU OF PT

FROM
MUWTY

TO
P-10

RNP	DISTANCE	PAT P-10	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (12-001740)	273242.91N/0823426.88W		603	20	10	1B	1000				AT997	2600
8.TERRAIN	273402.00N/0822609.00W		49 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM
6.80 NM AFTER ANAZE INT/I-TWJ 8.32 DME OR AT I-TWJ 1.52 DME

TO
LAL VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 210					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
15.TOWER (12-002011)	275641.42N/0822150.72W		632	20	10	1B	1000					1700
16.TERRAIN	275945.00N/0820942.00W		155 (200)								AS1500	1700

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											
12.TOWER (12-001402)	275841.00N/0823015.00W	1.30	1274/534	254	20	3	1A	300		SI	1300/560
CATEGORY B											
12.TOWER (12-001402)	275841.00N/0823015.00W	1.81	1274/534	254	20	3	1A	300		SI	1300/560
CATEGORY C											
13.TOWER (12-002120)	280030.00N/0822847.00W	2.84	1274/654	317	500	50	5D	300		SI/AC50	1300/680
CATEGORY D											
14.BLDG (12-001620)	275648.00N/0822726.00W	3.70	1274/954	622	500	50	5D	300		SI/AC50	1300/980

CIRCLING REMARKS:

MSA

CENTER
PIE VORTAC

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (12-004378)	274910.84N/0821538.00W	108	23.1	1667	20	3	1A	1000			2700

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

SDF AT 3.3NM DEVELOPED PER FPT CHECKLIST.

100 FT MAXIMUM ADVERSE VEGETATION PER FPT CHECKLIST.

3.50 VDA FROM 2600 FAF AT ANAZE DUE TO MACDILL AFB PER FPT CHECKLIST.

43 FT MAX SHIP HEIGHT NORTH OF GANDY BRIDGE PER FPT EMAIL 02/03/2014.

182.5 FT MAX SHIP HEIGHT SOUTH OF GANDY BRIDGE PER FPT EMAIL 01/31/2014.

OBS #6 LIES 129.36 FEET INTO SECONDARY OF FINAL STEPDOWN SEGMENT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
TPA TOWER, TPA APP CON, ZMA ARTCC, ZJX ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KTPA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTPA	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
NO BACKUP ALTIMETER SOURCE NEEDED; REDUNDANT SOURCES AVAILABLE.

<u>PRIMARY NAVAID</u> I-TWJ	<u>MONITOR POINT</u> TPA ATCT	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW10 - HIRL, PAPI-4L	NPI-G	
RW28 - HIRL, PAPI-4L	NPI-G	
RW01L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW01R - HIRL, REIL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW19L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW19R - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<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> 70.8
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

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

"VISUAL PORTION OF FINAL" PENETRATIONS



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3 CHAPTER 2 APPLIED TO 189 BUILDING (12-005102) 275301.11N/0823143.71W.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KTPA	<u>PROCEDURE NAME</u> LOC RWY 1R	<u>AMDT NO.</u> 4B	<u>CITY</u> TAMPA	<u>STATE</u> FL	<u>AIRPORT ELEVATION</u> 26	<u>FACILITY</u> I-TWJ
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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	1.47
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.54
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	001.73
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.60
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	001.73
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD
COORDINATES
(IF STR-IN)

275751.52N/0823144.37W

ARP COORDINATES

275831.70N/0823159.70W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 19R DISTANCE 1.16 NM

FAF
COORDINATES

275102.55N/0823158.27W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
18
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (CHRISTOPHER SCHONES)	<u>OFFICE</u> AJV-A431	<u>DATE</u> 01/11/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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