

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23**

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
39N	VOR-A	8	PRINCETON/ROCKY HILL	NJ	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
128		VOR-A	10/07/2021	10W	1965
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
SBJ			ROUTINE		

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>
SBJ VOR/DME	IF/IAF	DFRTZ INT/7.20 DME					170.99	7.20	1800

MISSED APPROACH

MAP:

4.37 NM AFTER DFRTZ INT/7.20 DME OR AT (CFLGX)

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 ON SBJ VOR/DME R-171 TO JERYY INT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | | |
|--|--|----------|-----------------------|----------|-------------------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF | (IAF) |
| 2. HOLD N SBJ VOR/DME, RT, 171.00 INBOUND, 2300 IN LIEU OF PT (IAF), MAX 6000. | | | | | |
| 3. FAC: 170.99 | FAF: DFRTZ INT/7.20 DME | | DIST FAF TO MAP: 4.37 | | DIST FAF TO THLD: |
| 4. MIN ALT: | | | | | |
| 8. MSA FROM: | SBJ VOR/DME 090-270 2300, 270-090 2900 | | | | |

NOTES:

CHART NOTE: CIRCLING RWY 28 NA AT NIGHT.
CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON SBJ VOR/DME AIRWAY RADIALS 237 CW 054.
CHART NOTE: USE TTN ALTIMETER SETTING; WHEN NOT RECEIVED, USE SMQ ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET AND VISIBILITY CAT B 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART TTN ASOS.
CHART (CFLGX) AT MAP.
HOLD N, LT, 171.00 INBOUND.
FAS OBST: 758 AAO 402718N/0744257W.
FAC CROSSES MIDPOINT OF RWY 10-28.

QUALITY
37
CHECKED

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

ALTERNATE: NA ☒

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
CIRCLING	1060	1 1/4	932	1060	1 1/4	932		NA			NA				

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM AMDT INTO FORM. - IAW 8260.19K 8-3-4 C(3).
2. UPDATED MAP FROM "4.37 NM AFTER DFRTZ INT/7.20 DME" TO "4.37 NM AFTER DFRTZ INT/7.20 DME OR AT (CFLGX)." - ADDED CNF AT MAP IAW 8260.19K 2-10-4 A(4)A.
3. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING LEFT TURN TO 2300 DIRECT SBJ VOR/DME AND HOLD" TO "CLIMB TO 2000 ON SBJ VOR/DME R-171 TO JERYY INT AND HOLD." – PER FPT/ATC REQUEST.
4. LINE 8: INCREASED MSA SECTOR 090-270 FROM 2200 TO 2300. – NEW CONTROLLING OBSTACLE.
5. EQUIPMENT REQUIREMENTS NOTES: REMOVED DME REQUIRED. - DME NOT REQUIRED TO FLY PROCEDURE.
6. UPDATED CHART NOTE: FROM" USE TRENTON ALTIMETER SETTING; WHEN NOT RECEIVED, USE SOMERVILLE ALTIMETER SETTING" TO "USE TTN ALTIMETER SETTING; WHEN NOT RECEIVED, USE SMQ ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET AND VISIBILITY CAT B 1/4 SM." - IAW 8260.19K 8-6-10F(4); NEW EVALUATION COMPLETED.
7. ADDITIONAL FLIGHT DATA: UPDATED "CHART TRENTON MERCER ASOS" TO "CHART TTN ASOS." – IAW 8260.19K 8-6-10 E(2)A.
8. ADDITIONAL FLIGHT DATA: UPDATED FAS OBST: FROM "740 AAO 402806N/0744253W" TO "758 AAO 402718N/0744257W." – NEW FINAL CONTROLLING OBSTACLE.
9. ADDITIONAL FLIGHT DATA: REMOVED CHART 839 TOWER 402814N/0744335W. – NEW 7:1 OBSTACLE AAO; NOT CHARTED.
10. ADDITIONAL FLIGHT DATA: REMOVED CHART CIRCLING ICON. - NO LONGER REQUIRED.
11. ADDITIONAL FLIGHT DATA: ADDED CHART (CFLGX) AT MAP. - IAW 8260.19K 8-6-11 Q.
12. INCREASED CIRCLING MDA/HAA ALL CATS FROM 1040/912 TO 1060/932. – NEW FINAL CONTROLLING OBSTACLE.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZNY, N90, AMGR

FLIGHT CHECKED BY

Digitally signed by
APRIL T SARMENTO
MICHAEL G CAMPBELL
Apr 27, 2026

OFFICE

AJF

DATE

0424/2026

DEVELOPED BY

Digitally signed by
APRIL T SARMENTO
CASIMIR L. TABAKA (BARBARA GORMAN)
Apr 27, 2026

OFFICE

AJV-A432

DATE

APPROVED BY

Digitally signed by
APRIL T SARMENTO
CASIMIR L. TABAKA
Apr 27, 2026

OFFICE

AJV-A430

DATE

TITLE

MANAGER



**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>
39N	VOR-A	8	PRINCETON/ROCKY HILL	NJ	128	SBJ

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE

FROM SBJ VOR/DME (IF/IAF) **TO** DFRTZ INT/7.20 DME

<u>RNP</u>	<u>DISTANCE</u> 7.20	<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>
TOWER (34-000416)	402814.10N/0744334.50W	839	250	50	4D	500				AT461	1800
TERRAIN	402809.00N/0744324.00W	564 (600)								AS1000	1600

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL

FROM DFRTZ INT/7.20 DME **TO** 4.37 NM AFTER DFRTZ INT/7.20 DME OR AT (CFLGX)

<u>RNP</u>	<u>DISTANCE</u> 4.37	<u>PAT</u>	<u>MAP</u> 4.37 NM AFTER DFRTZ INT/7.20 DME OR AT (CFLGX)				<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>
AAO	402718.00N/0744257.00W	758	215	8	4B	250				RA33	1060

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
37
CHECKED

HOLD-IN-LIEU OF PT

FROM

SBJ VOR/DME

TO

P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-4	<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>
AAO	404354.00N/0744824.00W	1185	215	8	4B	1000				AT115	2300
TERRAIN	404354.00N/0744824.00W	984 (1000)								AS1000	2000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM

4.37 NM AFTER DFRTZ INT/7.20 DME OR AT (CFLGX)

TO

JERYY INT

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 777			
<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				2000
TREE (34-030506)	402238.83N/0744050.06W	463	20	10	1B	1000					1500
TERRAIN	402221.00N/0744109.00W	347 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	402248.00N/0744036.00W	1.30	932	419	215	8	4B	300		SI/RA33	1060
CATEGORY B											
TOWER (34-000133)	402407.28N/0743706.81W	1.81	932	496	20	3	1A	300		SI/RA33	1060

CIRCLING REMARKS:

MSA

CENTER	RADIUS
SBJ VOR/DME	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
090-270	AAO	403145.00N/0752057.00W	274	28.0	1208	215	8	4B	1000			2300
270-090	AAO	405945.00N/0750306.00W	340	28.5	1805	215	8	4B	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT 100 FT PER FPT.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZNY ARTCC, NY TRACON, MIV FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	TTN	24	TTN	10.27	Y	33
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	SMQ	24	SMQ	13.50	Y	35

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
39N 128, TTN 190
RA = 32.4

39N 128, SMQ 105
RA = 34.3

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
SBJ VOR/DME	AOCC	24	1



<u>AIRPORT ID</u> 39N	<u>PROCEDURE NAME</u> VOR-A	<u>AMDT NO.</u> 8	<u>CITY</u> PRINCETON/ROCKY HILL	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 128	<u>FACILITY</u> SBJ
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>			
RW10 - MIRL (PCL), REIL (PCL), PAPI-2L		NPI-G				
RW28 - MIRL (PCL), PAPI-2L		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>	<u>TCH</u>
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD		FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
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	RWY 28 CIRCLING		
20:1			
205 TREE (34-071098) 402359.9600N/0743858.1400W (23.12)		207 TREE (34-072125) 402400.6200N/0743857.0000W (20.67)	
180 TREE (34-071370) 402359.6300N/0743903.6900W (19.6)		202 TREE (34-072018) 402359.7400N/0743857.3800W (17.19)	
176 TREE (34-058489) 402358.9900N/0743902.7600W (12.04)		182 TREE (34-030125) 402358.0800N/0743901.0600W (11.52)	
173 TREE (34-055455) 402359.0800N/0743903.3200W (11.2)		172 TREE (34-055193) 402356.0900N/0743903.4300W (10.8)	
183 TREE (34-030120) 402357.8500N/0743900.3800W (9.9)		178 TREE (34-030121) 402358.2500N/0743901.6500W (9.79)	
210 TREE (34-071264) 402359.6800N/0743853.3200W (9.49)		169 POLE (34-023985) 402359.2500N/0743903.8700W (9.32)	
187 TRANSMISSION_LINE:T_L_TOWER (34-006079) 402400.0000N/0743859.0000W (8.44)		168 TREE (34-030103) 402356.7800N/0743903.2500W (6.07)	
177 TREE (34-055191) 402358.4700N/0743900.9400W (6.03)		207 TREE (34-029920) 402359.5400N/0743853.0200W (5.34)	
183 TREE (34-071872) 402400.3100N/0743859.2300W (5.31)		207 TREE (34-071827) 402359.6500N/0743852.8000W (4.48)	
205 TREE (34-030011) 402359.8400N/0743853.1200W (3.71)		163 POLE (34-023984) 402358.7900N/0743903.9300W (3.58)	
165 BUILDING (34-024030) 402356.3900N/0743902.8500W (1.54)		163 BUILDING (34-072234) 402359.7900N/0743903.1600W (0.54)	
186 TREE (34-030440) 402356.4700N/0743857.1000W (0.3)			
<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.

VDP NOT ESTABLISHED - CIRCLING APPROACH.

MAP UNNAMED AT CURRENT POSITION FOR FLIGHT CHECKED CONFIRMED DME TRACE ERROR DROPS OUT BELOW SERVICE VOLUME (P-NOTAM 1/0506), THUS THE "MILES AFTER" DME POINT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 765 AAO 402845N/0744239W.

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	3.70
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.79
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	160.99
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	600
DISTANCE FROM	THLD	TO 1500FT POINT	11.47
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	7.71
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	160.99
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	600

THRESHOLD COORDINATES (IF STR-IN)

ARP COORDINATES 402356.72N/0743932.42W

RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 28 DISTANCE 0.29 NM

FAF COORDINATES 402810.09N/0744125.99W

FIX NAME COORDINATES

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (BARBARA GORMAN)	AJV-A432		AERONAUTICAL INFORMATION SPECIALIST

