

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> KART	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> WATERTOWN	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 331	<u>TDZE</u> 331	<u>SUPERSEDED</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 05/21/2020	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 25 JANUARY 2024	<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>
CIPNA		MUVRE		TF	FO	1.00	151.93	14.91	3500
LIDLE		PATEE		TF	FB	1.00	072.68	15.80	3600
PATEE	IAF	SUVOY	NOPT	TF	FB	1.00	357.43	5.15	3600
SUVOY		MUVRE		TF	FB	1.00	357.41	4.00	3500
MUVRE	IF/IAF	WONPO		TF	FB	1.00	285.14	5.44	2200
WONPO	FAF	HUPUM/2.90 NM TO RW28		TF	FB	0.30	285.06	2.83	
HUPUM/2.90 NM TO RW28		RW28	MAP	TF	FO	0.30	285.06	2.90	
RW28	MAP	531 MSL		CA			285.06		
531 MSL		TAREE		DF	FO	1.00			2400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2400 DIRECT TAREE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD SE MUVRE, LT, 307.14 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 285.06 FAF: WONPO DIST FAF TO MAP: 5.73 DIST FAF TO THLD: 5.73

4. MIN ALT: MUVRE 3500, WONPO 2200, HUPUM/2.90 NM TO RW28 1300

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.49 GS ANT:

6. MIN GP INCPT: 2200 GP ALT AT PFAF : WONPO 2200 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0

8. MSA FROM: RW28 3600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CATS A/B VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 104.76 INBOUND.
CHART FAS OBST: 665 ANTENNA (36-109024) 435904N/0755652W.
CHART VDP AT 1.70 NM TO RW28.
WAAS CHANNEL # 82322
REFERENCE PATH ID: W28A
CHART CIRCLING ICON.
LTP HAE: 67.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	531	1/2	200	531	1/2	200	531	1/2	200	531	1/2	200			
LNAV/VNAV DA	852	1	521	852	1	521	852	1	521	852	1	521			
LNAV MDA	920	3/4	589	920	3/4	589	920	1 1/4	589	920	1 1/4	589			
CIRCLING	920	1	589	960	1	629	980	1 3/4	649	1080	2 1/2	749			



CHANGES - REASONS

1. TERMINAL ROUTES: CIPNA TO MUVRE AND LIDLE TO PATEE RNP VALUE CHANGED FROM 2.0 TO 1.0 - PER CURRENT CRITERIA.
2. REMOVED ASTERISK FROM CHART VDP AT 1.70 NM TO RW28 AND REMOVED *LNAV ONLY - NO LONGER REQUIRED PER CURRENT CRITERIA.
3. ADDED MAX ALT OF 6000 TO HILD ON PROFILE LINE 2 - NEW CRITERIA REQUIREMENT.
4. LOWERED LPV DA/HAT FROM 581/250 TO 531/200 - OBSTACLE EVAL: FINAL SURFACE NOW CLEAR.
5. LPV ALL CATS VIS LOWERED FROM 3/4 TO 1/2 - APPLIED LIGHT CREDIT; LPV 34:1 VISI SFC IS CLEAR.
6. CHANGED DISTANCE TO THLD FROM HAT VALUES FROM 250/0.64 TO 200/0.49 - LPV HAT LOWERED AFTER OBSTACLE EVAL.
7. LNAV/VNAV ALL CATS VISIBILITY LOWERED FROM 1 3/4 TO 1 - APPLIED LIGHT CREDIT.
8. LNAV CATS A/B VISIBILITY LOWERED FROM 1 TO 3/4 AND CATS C/D VISIBILITY LOWERED FROM 1 3/4 TO 1 1/4 - APPLIED LIGHT CREDIT.
9. CIRCLING CAT A MDA/HAA LOWERED FROM 960/629 TO 920/589 - OBSTACLE EVAL, XP TO MATCH OTHER PROCEDURES REMOVED PER FPT.
10. ADDED PBN REQUIREMENTS NOTE RNP APCH-GPS - NEW REQUIREMENT.
11. REMOVED FAHRENHEIT VALUES FROM UNCOMPENSATED BARO-VNAV NOTE - NO LONGER REQUIRED.
12. DELETED DME/DME RNP-0.3 NA NOTE - REPLACED BY PBN REQUIREMENT NOTE.
13. REMOVED ALL BACKUP ALTIMETER SETTING TYPE NOTES - KART ASOS IS ON WMSCR; MOVED TO 8260-9 AS CONTINGENCY NOTES.
14. CRC REMAINDER CHANGED FROM FF50C66F TO 50DBD584 - FPAP LATITUDE CHANGED FROM 435933.1815N TO 435933.1810N AND VAL CHANGED FROM 50 TO 35.
15. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - IDENTIFY 20:1 VISI SFC CLEARANCE LEVEL.
16. DELETED PROCEDURE ENTRY NA NOTE FOR ENTRIES AT LIDLE ON V145 - V145 NO LONGER CHARTED AT LIDLE.
17. ADDED CIRCLING NA AT NIGHT RESTRICTION TO RWY 25 - 20:1 PENS.

08/15/2023 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/28/2023
REMOVED CIRCLING RWY 25 NA AT NIGHT NOTE.

COORDINATED WITH:

~~AAA~~ ☒ ~~ALPA~~ ☒ ~~AOPA~~ ☒ ~~APA~~ ☒ ~~HAI~~ ☐ ~~NBAA~~ ☒ **OTHER:** ZDC, APP CON, AMGR

FLIGHT CHECKED BY

BOB S PRESSLER

Digitally signed by
CASIMIR L TABAKA

Oct 05, 2023

OFFICE

FPO

DATE

10/04/2023

DEVELOPED BY

KELLY DEAN

Digitally signed by
KELLY D DEAN

Aug 15, 2023

OFFICE

AJV-A432

DATE

03/28/2023

APPROVED BY

CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA

Aug 18, 2023

OFFICE

AJV-A432

DATE

TITLE
MANAGER

QUALITY
35
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KART
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	435928.5830N
LTP/FTP LONGITUDE	0760014.7025W
LTP/FTP ELLIPSOIDAL HEIGHT	+00672
FPAP LATITUDE	435933.1810N
FPAP LONGITUDE	0760217.9630W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	50DBD584

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01008
FPAP ORTHOMETRIC HEIGHT	+01008

