

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> KMHK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MANHATTAN	<u>STATE</u> KS		
<u>AIRPORT ELEVATION</u> 1066	<u>TDZE</u> 1057	<u>SUPERSEDED</u> RNAV (GPS) RWY 3	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> CONCURRENT WITH KMHK ILS OR LOC RWY 3 AMDT 8	<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>
HEYDN		CADEX		TF	FB	1.00	303.07	22.68	3800
CADEX	IAF	BELVE	NOPT	TF	FB	1.00	305.84	5.00	3800
DIVBE	IAF	BELVE	NOPT	TF	FB	1.00	094.44	6.69	3800
BELVE	IF/IAF	ADEKE		TF	FB	1.00	035.79	6.06	3000
ADEKE	FAF	PIDME/1.37 NM TO RW03		TF	FB	0.30	035.85	4.58	
PIDME/1.37 NM TO RW03		RW03	MAP	TF	FO	0.30	035.85	1.37	
RW03	MAP	1257 MSL		CA			035.85		
1257 MSL		BIRME		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW03

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT BIRME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD SW BELVE, LT, 035.79 INBOUND, 3800 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC:	035.85	FAF: ADEKE	DIST FAF TO MAP: 5.96	DIST FAF TO THLD: 5.96	
4. MIN ALT:	BELVE 3800, ADEKE 3000, PIDME/1.37 NM TO RW03 1540				
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.48	GS ANT:
6. MIN GP INCPT:	3000	GP ALT AT PFAF :	ADEKE 3000	OM:	MM:
7. GP ANGLE:	3.00	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH: 46.4	IM:
8. MSA FROM:	RW03 3000				

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA NORTHWEST OF RWY 3-21.
CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DIVBE ON V4-508 SOUTHWEST BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART SPEED ICON IN PLANVIEW AT CADEX: MAX 210 KIAS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM, INCREASE LNAV CATS A/B VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 1/8 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HEYDN ON V77-280 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 216.02 INBOUND.
CHART FAS OBST: 1202 TREE (20-075061) 390751N/0964145W.
CHART 1341 TOWER 390259N/0964514W.
CHART 1368 TOWER 390413N/0964731W, 1260 TANK 390705N/0964252W.
CHART R-3602A AND R-3602B.
WAAS CHANNEL # 73018
REFERENCE PATH ID: W03A
LTP HAE: 292.4 M



MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2, CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	1257	1/2	200	1257	1/2	200	1257	1/2	200	1257	1/2	200			
LNAV/VNAV DA	1441	3/4	384	1441	3/4	384	1441	3/4	384	1441	3/4	384			
LNAV MDA	1460	3/4	403	1460	3/4	403	1460	3/4	403	1460	3/4	403			
CIRCLING	1540	1	474	1620	1	554	1920	2 1/2	854	1920	2 3/4	854			

CHANGES - REASONS

1. TERMINAL ROUTE UPDATE: REMOVED INTERMEDIATE ROUTE FROM BELVE TO ZOBEN COURSE/DISTANCE/ALTITUDE 035.79/3.67/3800 AND FROM ZOBEN TO ADEKE COURSE/DISTANCE/ALTITUDE "035.83/2.42/3000" - PER FPT REQUEST.
2. TERMINAL ROUTE UPDATE: ADDED INTERMEDIATE ROUTE FROM BELVE TO ADEKE COURSE/DISTANCE/ALTITUDE 035.79/6.06/3000 - PER FPT REQUEST.
3. TERMINAL ROUTE UPDATE: ADDED FINAL STEPDOWN ROUTE FROM ADEKE TO PIDME/1.37 NM TO RW03 COURSE/DISTANCE "035.85/4.58" - FINAL STEPDOWN FIX PIDME ADDED PER FPT CHECKLIST.
4. TERMINAL ROUTE UPDATE: ADDED FINAL STEPDOWN ROUTE FROM PIDME/1.37 NM TO RW03 TO RW03 COURSE/DISTANCE 035.85/1.37 - FINAL STEPDOWN FIX PIDME ADDED PER FPT CHECKLIST.
5. TERMINAL ROUTE UPDATE: CHANGED FROM MA CA LEG RW03 TO 1256 MSL COURSE 035.86 TO RW03 TO 1257 MSL COURSE 035.85 - MA ROUTE RECALCULATED. TDZE CHANGED FROM 1056 TO 1057."
6. PROFILE LINE 3 UPDATE: DIST FAF TO MAP/THLD FROM 5.86 TO 5.96 - FAF LOCATION ADEKE MOVED FROM "39-03-23.37N/096-45-38.51W TO 39-03-19.11N, 96-45-42.97W", 0.09 NM SOUTHWEST.
7. PROFILE LINE 4 UPDATE: CHANGED MIN ALT FROM "BELVE 3800, ZOBEN 3800, ADEKE 3000" TO "BELVE 3800, ADEKE 3000, PIDME/1.37 NM TO RW03 1540" - FINAL LNAV STEPDOWN FIX PIDME ADDED AND INTERMEDIATE STEPDOWN FIX WAS REMOVED.
8. PROFILE LINE 7 UPDATE: ADDED 20:1 IS CLEAR - IAW 8260.19I PARA 8-6-7.G.(3). TCH CHANGED FROM 45.9 TO 46.4.
9. ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - IAW 8260.19I, PARA 8-6-8B(2).
10. DELETED CHART NOTE: DME/DME RNP-0.3 NA - IAW 8260.19H, PARA 4-6-10E AND MEMO 266 DATED 7/18/2018.
11. CHANGED CHART NOTE FROM "CIRCLING NA WEST OF RWY 3-21" TO "CIRCLING NA NORTHWEST OF RWY 3-21" - PER FPT CHECKLIST.
12. CHANGED CHART NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW 8260.19I PARA 8-6-11K(3).
13. REMOVED BACKUP ALTIMETER SETTING AND ASSOCIATED NOTES - MOVED TO -9 AS A CONTINGENCY, IAW 8260.19I, PARA 8-6-9F(3).
14. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 46°C (114°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C - IAW 8260.19I PARA 8-6-9R.
15. CHANGE CHART NOTE FROM "FOR INOPERATIVE MALSR, INCREASE LNAV CATS A, B VISIBILITY TO 1 MILE" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 1/8 SM, INCREASE LNAV CATS A/B VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 1/8 SM" - VISIBILITY RECALCULATION UPDATE.
16. ADDED "CHART SPEED ICON IN PLANVIEW AT CADEX: MAX 210 KIAS" - IAW 19I, PARA 4-6-10.G. ADDED SPEED RESTRICTION; AT OR BELOW 210 KTS TO MEET LEG LENGTHS PER FPT CHECKLIST.
17. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT HEYDN ON V307 SOUTHEAST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT HEYDN ON V77-280 NORTHEAST BOUND"- NOTE UPDATE. V77-280 NORTHWEST BOUND ALSO ON HEYDN AND V307 HAS BEEN DELETED IN THIS AREA.
18. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT DIVBE ON V4-308 SOUTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT DIVBE ON V4-508 SOUTHWEST BOUND" - NOTE UPDATE. V508 ON DIVBE NOT V308.
19. ADDITIONAL FLIGHT DATA UPDATE: CHANGED CHART FAS OBST FROM "1265 POLE 390335N/0964433W, 1194 TREE 390726N/0964140W" TO "CHART FAS OBST: 1202 TREE (20-075061) 390751N/0964145W" - LNAV FINAL STEPDOWN ADDED. NEW OBSTACLE EVALUATION UPDATE.
20. ADDITIONAL FLIGHT DATA UPDATE: REMOVED CHART VDP AT 1.36 NM TO RW03 - VDP IS NOT PUBLISHABLE DUE TO: VDP IS LOCATED WITHIN 0.5 NM FROM FINAL FIX.
21. ADDITIONAL FLIGHT DATA UPDATE: ADDED CHART 1368 TOWER 390413N/0964731W, 1260 TANK 390705N/0964252W - 7:1 INFORMATION ADDED IAW 8260.19I, PARA 8-6-10E.
22. LPV MINS UPDATE: LPV DA/VIS ALL CATS CHANGED FROM 1256/3/4 TO 1257/1/2 - LPV MINS RECALCULATION UPDATE AND TDZE CHANGED FROM 1056 TO 1057.
23. LNAV/VNAV MINS UPDATE: LNAV/VNAV DA/HAT/VIS CHANGED FROM 1695/639/ 1 3/4 TO 1441/384/ 3/4 - NEW LNAV/VNAV FINAL CONTROLLING OBSTACLE EVALUATION UPDATE.
24. LNAV MINS UPDATE: LNAV MDA/HAT ALL CATS CHANGED FROM 1540/484 TO 1460/403. CAT D VIS CHANGED FROM 1 TO 3/4 - NEW LNAV OBSTACLE EVALUATION UPDATE.
25. CIRCLING MINS UPDATE: CIRCLING CAT A MDA/HAA CHANGED FROM 1600/534 TO 1540/474, CAT B MDA/HAA CHANGED FROM 1700/634 TO 1620/554 - NEW CIRCLING CAT A/B CONTROLLING OBSTACLE EVALUATION UPDATE.
26. CHANGED CRC REMAINDER FROM 21B9F0BA TO F9D95D3D - LTP/FTP LAT/LONG CHANGED FROM 390750.5500N/0964052.0000W TO 390753.5765N/0964048.7380W. FPAP LAT/LONG CHANGED FROM 390844.0100N/0963954.5900W TO 390901.9870N/0963935.2690W. LENGTH OFFSET CHANGED FROM 0016 TO 0496. TCH CHANGED FROM 00045.9 TO 00046.4. LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +02922 TO +02924.
27. ADDITIONAL FLIGHT DATA UPDATE: CHANGED "CHART 1343 ROTATING BEACON 390259N/0964514W" TO "CHART 1341 TOWER 390259N/0964514W" - PER FPT.
28. PROFILE LINE 2 UPDATE: ADDED MAX 6000 - IAW 8260.19I, PARA 8-6-7B(2).
29. PROFILE LINE 5 UPDATE - CHANGE FROM DIST TO THLD FROM 200 HAT: 0.49 NM TO "200 HAT: 0.48" - TDZE CHANGED FROM 1056 TO 1057.
30. MA INBOUND HOLDING COURSE CHANGED FROM 216.01 TO 216.02 - INBOUND COURSE CORRECTION UPDATE. BIRME PREVIOUSLY MOVED 4484' NE.
31. ADDITIONAL FLIGHT DATA UPDATE: REMOVED *LNAV ONLY - NO LONGER REQUIRED PER CURRENT CRITERIA.



AIRPORT ID
KMHK

PROCEDURE NAME
RNAV (GPS) RWY 3

ORIGINAL/AMENDMENT
2

CITY
MANHATTAN

STATE
KS

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZKC, MHK ATCT, AMGR.

FLIGHT CHECKED BY

PENDING

Digitally signed by
DAVID TEFFETELLER

OFFICE

DATE

DEVELOPED BY
KWEKU DONKOR

Digitally signed by
DAVID TEFFETELLER

Jun 27, 2023

OFFICE
AJV-A433

DATE
02/27/2023

APPROVED BY
JOHNNIE BAKER

Digitally signed by
DAVID TEFFETELLER
Jun 27, 2023

OFFICE
AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMHK
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	390753.5765N
LTP/FTP LONGITUDE	0964048.7380W
LTP/FTP ELLIPSOIDAL HEIGHT	+02924
FPAP LATITUDE	390901.9870N
FPAP LONGITUDE	0963935.2690W
THRESHOLD CROSSING HEIGHT (TCH)	00046.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	F9D95D3D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03222
FPAP ORTHOMETRIC HEIGHT	+03222