

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29**

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> ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 7D	<u>CITY</u> MANHATTAN	<u>STATE</u> KS		
<u>AIRPORT ELEVATION</u> 1066	<u>TDZE</u> 1056	<u>SUPERSEDED</u> ILS OR LOC RWY 3	<u>ORIGINAL/AMENDMENT</u> 7C	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 4E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> I-MHK	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<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>
MHK VOR/DME		BELVE/MHK 13.00 DME					215.36	13.00	3800
SLN VORTAC	IAF	BELVE/MHK 13.00 DME	NOPT				077.81	36.48	3800
WEVAL/MHK 13.00 DME CW	IAF	BELVE/MHK 13.00 DME	NOPT				13.00 DME ARC (MHK LR-206)		3800
JUXON INT/MHK 13.00 DME CW	IAF	BELVE/MHK 13.00 DME	NOPT				13.00 DME ARC (MHK LR-206)		3800
BELVE/MHK 13.00 DME	IF/IAF	ADEKE/MHK 6.85 DME					035.90	6.15 (I-MHK)	3000

MISSED APPROACH

MAP:

ILS: DA
LOC: MHK 0.99 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2200 THEN CLIMBING RIGHT TURN TO 3000 ON MHK VOR/DME R-143 TO ALMAS INT/MHK 7.74 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SW BELVE, LT, 035.90 INBOUND, 3800 FT. IN LIEU OF PT (IAF), MAX 5500.

3. FAC:

035.90

FAF:

ADEKE/MHK 6.85 DME

DIST FAF TO MAP:

DIST FAF TO THLD:

5.86

4. MIN ALT: BELVE/MHK 13.00 DME 3800, ADEKE/MHK 6.85 DME 3000

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

1039

6. MIN GS INCPT:

3000

GS ALT AT PFAF :

ADEKE/MHK 6.85 DME 3000

OM:

MM:

IM:

7. GS ANGLE:

3.00

34:1:

20:1:

TCH:

46.4

8. MSA FROM: MHK VOR/DME 3100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 3.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 3 VISIBILITY CATS C AND D TO 1 3/8 SM.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARSHALL AAF ALTIMETER SETTING AND INCREASE S-ILS 3 DA TO 1272 FEET AND ALL MDA 20 FEET.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING MARSHALL AAF ALTIMETER SETTING, INCREASE S-LOC 3 VISIBILITY CATS C AND D TO 1 3/8 SM.
CHART NOTE: CIRCLING NA W OF 3-21.
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1350.

ADDITIONAL FLIGHT DATA:

CHART NOTE: DME FROM MHK VOR/DME.
CHART MARSHALL AAF.
HOLD SE, RT, 323.00 INBOUND.
CHART FAS OBST: 1189 POLE (20-023160) 390723N/0964139W.
CHART 1342 ROTATING BEACON 390259N/0964514W.
CHART 1460 AAO 390302N/0964504W.
CHART VDP AT 2.28 DME
DISTANCE VDP TO THLD 1.30 NM.
CHART MHK R-111 AT WEVAL.
CHART MHK R-203 AT JUXON.



MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: 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>
S-ILS 03	1256	1	200	1256	1	200	1256	1	200	1256	1	200			
S-LOC 03	1520	1	464	1520	1	464	1520	1	464	1520	1	464			
CIRCLING	1600	1	534	1700	1	634	1920	2 1/2	854	1920	2 3/4	854			

CHANGES - REASONS

1. CHANGES FROM P-NOTAMS FOR AMDT 7A, 7B AND 7C INCORPORATED INTO FORM. - REQUIRED IAW 8260.19I PARA 8-3-4C.
2. REMOVED INTERMEDIATE STEPDOWN FIX (ZOBEN) - PER FPT REQUEST/TO MEET DESCENT GRADIENT CRITERIA
3. TERMINAL ROUTES: CHANGED INTERMEDIATE COURSE FROM "35.91" TO "35.90" - UPDATED COURSE TO MATCH ACTIVE AIRNAV DATA.
4. MISSED APPROACH: CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 ON MHK VOR/DME R-143 TO ALMAS INT/MHK 7.74 DME AND HOLD, OR AS DIRECTED BY ATC" TO "CLIMB TO 2200 THEN CLIMBING RIGHT TURN TO 3000 ON MHK VOR/DME R-143 TO ALMAS INT/MHK 7.74 DME AND HOLD." - RAISED CA LEG ALTITUDE PER FPT REQUEST.
5. MISSED APPROACH: REMOVED ALTERNATE MISSED APPROACH INSTRUCTIONS AND ALL ASSOCIATED NOTES - PER FPT REQUEST.
6. PROFILE LINE 2: UPDATED HOLD-IN-LIEU INBOUND COURSE COURSE FROM "035.91" TO "035.90" - UPDATED COURSE TO MATCH LOC AIRNAV DATA.
7. ADDED "MAX 5500" TO PROFILE LINE 2- IAW 8260.19I 8-6-7 B. (2).
8. PROFILE LINE 3: UPDATED FAC FROM "035.91" TO "035.90" - UPDATED COURSE TO MATCH LOC AIRNAV DATA.
9. REMOVED "ZOBEN 3800" FROM PROFILE LINE 4- STEPDOWN FIX ZOBEN REMOVED PER FPT REQUEST.
10. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST: FROM "1265 POLE 390335N/0964433W" TO "1189 POLE (20-023160) 390722.60N/0964138.66W"- NEW CONTROLLING OBSTACLE ON FINAL.
11. ADDED CHART NOTE "CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT."- VGSI AND ILS GLIDEPATH ARE NOT COINCIDENT.
12. RAISED S-ILS 3 VISIBILITY ALL CATS FROM 3/4 SM TO 1 SM. - NEW VISIBILITY CALCULATION.
13. RAISED S-LOC 3 VISIBILITY CATS A AND B FROM 3/4 SM TO 1 SM. - NEW VISIBILITY CALCULATION.
14. UPDATED CHART NOTE FROM "FOR INOPERATIVE MALSR WHEN USING MARSHALL AAF ALTIMETER SETTING, INCREASE S-ILS 3 ALL CATS TO 1 1/4 MILE." TO "FOR INOPERATIVE ALS, INCREASE S-LOC 3 VISIBILITY CATS C AND D TO 1 3/8 SM." - NEW VISIBILITY CALCULATION.
15. ADDED ADDITIONAL FLIGHT DATA NOTE "1460 AAO 390302N/0964504W" FOR 7:1 EXCLUDED AAO - NEW MANUAL TERRAIN EVALUATION.
16. UPDATED CHART NOTE FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARSHALL AAF ALTIMETER SETTING AND INCREASE ALL DA 16 FEET AND ALL MDA 20 FEET" TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARSHALL AAF ALTIMETER SETTING AND INCREASE S-ILS 3 DA TO 1272 FEET AND ALL MDA 20 FEET." - VERBIAGE UPDATED PER CRITERIA CHANGE.
17. ADDED NOTES "CHART VDP AT 2.28 DME" AND "DISTANCE VDP TO THLD 1.30 NM." TO ADDITIONAL FLIGHT DATA - FINAL FACILITY HAS DME.
18. MISSED APPROACH: UPDATED LOC MAP FROM "5.86 MILES AFTER ADEKEIMHK 6.85 DME OR AT MHK 0.99 DME FIX" TO "MHK 0.99 DME". - PROCEDURE NOW REQUIRES DME.
19. ADDITIONAL FLIGHT DATA: REMOVED "CHART IN PLANVIEW: SLN VORTAC 36.48 DME AT BELVE." - REMOVED SLN VORTAC FROM BELVE FIX MAKE UP PER FPT REQUEST.
20. ADDITIONAL FLIGHT DATA: CHANGED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." TO "CHART NOTE: RWY 3 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - UPDATED CHART NOTE TO MATCH CURRENT CRITERIA.
21. ADDED CHART NOTE: "AUTOPILOT COUPLED APPROACH NA BELOW 1350" - INCORPORATED NOTAM FDC 1/1195 INTO THIS AMDT.
22. TERMINAL ROUTES: IAF BELVE CHANGED FROM "BELVE INT/MHK 13.00 DME" TO "BELVE/MHK 13.00 DME" - BELVE IS NO LONGER AN INTERSECTION FIX.



AIRPORT ID
KMHK

PROCEDURE NAME
ILS OR LOC RWY 3

ORIGINAL/AMENDMENT
7D

CITY
MANHATTAN

STATE
KS

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZKC, MHK, ATCT, APT MGR

FLIGHT CHECKED BY
EDWARD W MESA

OFFICE
FPO

DATE
09/07/2022

Digitally signed by
CASIMIR L TABAKA
Aug 02, 2022

DEVELOPED BY
CASIMIR L. TABAKA (LEAH JENSEN)

Digitally signed by
CASIMIR L TABAKA
Aug 02, 2022

OFFICE
AJV-A432

DATE
05/05/2022

APPROVED BY
CASIMIR TABAKA

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CASIMIR L TABAKA
Aug 02, 2022

OFFICE
AJV-A430

DATE

TITLE
MANAGER

