

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**LOC/DME BC 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</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
HOUGHTON COUNTY MEMORIAL	KCMX	LOC BC RWY 13	12A	HANCOCK	MI	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1095	1095	LOC/DME BC RWY 13	12	09/25/2008	2W	1985
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-CMX	471037.69N / 0883007.06W	15 AUGUST 2019	ROUTINE			

**TERMINAL ROUTES**

<u><b>FROM</b></u>	<u><b>FIX TYPE</b></u>	<u><b>TO</b></u>	<u><b>FIX TYPE</b></u>	<u><b>LEG TYPE</b></u>	<u><b>FO/FB</b></u>	<u><b>RNP</b></u>	<u><b>COURSE</b></u>	<u><b>DISTANCE</b></u>	<u><b>ALTITUDE</b></u>
CMX VOR/DME		FREDA/I-CMX 4.97 DME					311.55	5.76	2800
CIPMI/CMX VOR/DME 14.00 DME CW	IAF	GERKE/I-CMX 13.21 DME	NOPT				14.00 DME ARC (CMX LR-304)		2800
VAYUC/CMX VOR/DME 14.00 DME CCW	IAF	GERKE/I-CMX 13.21 DME	NOPT				14.00 DME ARC (CMX LR-321)		2800
GERKE/I-CMX 13.21 DME	IF	FREDA/I-CMX 4.97 DME					132.85	8.24 (I-CMX)	2800

**MISSED APPROACH**

**MAP:**

LOC: JOTUV/0.49 DME FIX

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3100 THEN RIGHT TURN DIRECT CMX VOR/DME AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L    **SIDE OF COURSE** 312.85    **OUTBOUND** 2800    **FT WITHIN** 10    **MILES OF** FREDA/I-CMX 4.97 DME (IAF)

2.

3. **FAC:** 132.85    **FAF:** FREDA/I-CMX 4.97 DME    **DIST FAF TO MAP:**    **DIST FAF TO THLD:** 5.15

4. **MIN ALT:** FREDA/I-CMX 4.97 DME 2800

8. **MSA FROM:** CMX VOR/DME 3300

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.

**NOTES:**

CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PROFILE NOTE: DISREGARD GS INDICATIONS.



CHART NOTE: REQUEST MIRL RWY 7-27 - CTAF.  
CHART PROFILE NOTE: USE I-CMX DME WHEN ON THE LOCALIZER COURSE.

ADDITIONAL FLIGHT DATA:

FREDA TO RW13: 3.04/43  
CHART CIRCLING ICON.  
CHART CMX R-243 AT CIPMI.  
CHART CMX R-332 AT VAYUC.  
CHART VDP AT 1.09 DME  
DISTANCE VDP TO THLD 1.26 NM  
FAS OBST: 1219 AAO 471303N/0883325W.  
HOLD SE, RT, 320.00 INBOUND

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

ALTERNATE: NA ☐ LOC: STANDARD - CAT D 800-2 1/4

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-LOC 13	1540	1	445	1540	1	445	1540	1 1/4	445	1540	1 1/2	445			
CIRCLING	1560	1	465	1600	1	505	1680	1 1/2	585	1820	2 1/4	725			

CHANGES - REASONS

1. REMOVED ALL REFERENCE OF BACK-UP (KSAW) ALTIMETER SETTING - LOCAL WEATHER TRANSMITTED ON WMSCR AND DEEMED RELIABLE.
2. ADDED CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - IAW FAAO 8260.19H, 8-6-11, K, (3)
3. ADDED CIRCLING ICON TO AFD BLOCK. - INCLUDED NEW CIRCLING AREA DATA BASED ON ILS OR LOC RWY 31 EVALUATION.
4. CHANGED CIRCLING MDA'S/HAA'S FROM: CAT A 1620/525, CAT B 1640/545, CAT C 1640/545, CAT D 1780/685 TO CAT A 1560/465, CAT B 1600/505, CAT C 1680/585, CAT D 1820/725. - NEW CIRCLING AREA EVALUATED ON ILS OR LOC RWY 31 APPROACH, DATA TRANSFERRED TO THIS AMENDMENT.
5. CHANGED PROCEDURE NAME FROM LOC/DME BC RWY 13 TO LOC BC RWY 13. - DME NO LONGER USED IN PROCEDURE NAMING.

4/18/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 4/12/2019:  
1. ADDED HOLD SE, RT, 320.00 INBOUND TO ADDITIONAL FLIGHT DATA.

COORDINATED WITH:

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

FLIGHT CHECKED BY  
PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

DONALD H LANIER  
Apr 18, 2019

OFFICE  
DATE  
AJV-A431  
02/19/2019

DEVELOPED BY  
DONALD H. LANIER (CHRISTOPHER SCHONES) Digitally signed by

APPROVED BY  
LONNIE EVERHART Digitally signed by  
DONALD H LANIER  
Apr 18, 2019

OFFICE  
DATE  
AJV-A430  
TITLE  
MANAGER

