

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
LOC 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 ID</u> KOTM	<u>PROCEDURE NAME</u> LOC BC RWY 13	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> OTTUMWA	<u>STATE</u> IA		
<u>AIRPORT ELEVATION</u> 846	<u>TDZE</u> 842	<u>SUPERSEDED</u> LOC/DME BC RWY 13	<u>ORIGINAL/AMENDMENT</u> 3C	<u>DATED</u> 12/30/2021	<u>MAG VAR</u> 1W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> I-OTM	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
OTM VOR/DME		RINER/OTM 12.45 DME					305.82	12.44	2500

**MISSED APPROACH**

**MAP:**

ODINN/OTM 8.41 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT OTM VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT L SIDE OF COURSE 315.96 OUTBOUND 2500 FT WITHIN 10 MILES OF RINER/OTM 12.45 DME (IAF)  
2.  
3. FAC: 135.96 FAF: RINER/OTM 12.45 DME DIST FAF TO MAP: 4.05 DIST FAF TO THLD: 4.77  
4. MIN ALT: RINER/OTM 12.45 DME 2400  
8. MSA FROM: OTM VOR/DME 3000

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.

**NOTES:**

CHART PROFILE NOTE: DISREGARD GS INDICATIONS.  
CHART NOTE: DME FROM OTM VOR/DME. SIMULTANEOUS RECEPTION OF I-OTM AND OTM DME REQUIRED.

QUALITY  
20  
CHECKED

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 303.00 INBOUND.  
FAS OBST: 1050 AAO 410905N/0923042W.  
CHART VDP AT 9.00 DME  
DISTANCE VDP TO THLD 1.31 NM.  
CHART CIRCLING ICON.  
RINER TO RW13: 3.00/41.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
S-13	1300	1	458	1300	1	458	1300	1 3/8	458		NA				
CIRCLING	1300	1	454	1300	1	454	1400	1 1/2	554		NA				

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM "LOC/DME BC RWY 13" TO "LOC BC RWY 13" - IAW 8260.3E 1-6-2, DME NO LONGER USED IN PROCEDURE NAMING.
2. INCORPORATED P-NOTAM AMENDMENTS: AMDT 3A/ NOTAM 1/8071, AMDT 3B/ NOTAM 9/9059, AMDT 3C/ NOTAM 1/2221.
3. AIRPORT ELEVATION UPDATED FROM "845" TO "846" - PER 09/08/2022 AIRPORT SURVEY.
4. TDZE UPDATED FROM "844" TO "842" - PER 11/01/2020 RUNWAY SURVEY.
5. MAG VAR AND YEAR UPDATED FROM "3E 1985" TO "1W 2025" - PER MAG VAR TABLE AND FPT REQUEST.
6. ALL REFERENCE TO RINER UPDATED FROM "RINER/OTM 12.43 DME" TO "RINER/OTM 12.45 DME" - RINER MOVED 115 FT NW ADJUSTING PROCEDURE FOR RUNWAY EXTENSION AND UPDATED LOCALIZER COURSE.
7. UPDATED COURSE/DISTANCE FOR LEG OTM VOR/DME TO RINER IN TERMINAL ROUTES FROM "305.83/12.43" TO "305.82/12.44" - RINER MOVED.
8. MAP UPDATED FROM "4.04 MILES AFTER RINER OR AT OTM 8.40 DME" TO "ODINN/OTM 8.41 DME" - MAP IS NOW A NAMED FIX AND LOCATION ADJUSTED FOR RUNWAY EXTENSION; TIMING TABLE NOT NECESSARY, DME REQUIRED.
9. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 2500 DIRECT OTM VOR/DME AND HOLD" TO "CLIMB TO 3000 DIRECT OTM VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" - VOR UNUSABLE 100-148 WITHIN 10NM BELOW 3000 PER AIRNAV DATA.
10. UPDATED PROFILE LINE 1 OUTBOUND COURSE FROM "311.99" TO "315.96" - CRS ADJUSTED FOR MAG VAR UPDATE AND UPDATED LOCALIZER COURSE.
11. UPDATED PROFILE LINE 3 FAC AND DIST FAF TO MAP FROM "131.99/4.04" TO "135.96/4.05" - FAF AND MAP MOVED FOR RUNWAY EXTENSION AND CRS ADJUSTED FOR MAG VAR UPDATE AND UPDATED LOCALIZER COURSE.
12. ADDED "DME REQUIRED" TO EQUIPMENT REQUIREMENTS SECTION - IAW 8260.19I 8-6-8.A.(2)(A).
13. MOVED SECONDARY ALTIMETER NOTES TO GENERAL REMARKS SECTION FOR CONTINGENCY PURPOSES.
14. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA - IAW 8260.19I 8-6-10.S.
15. ADDED "CHART VDP AT 9.00 DME" AND "DISTANCE VDP TO THLD 1.31 NM" TO ADDITIONAL FLIGHT DATA - VDP IS PUBLISHABLE, NOTES IAW 8260.19I ATTACHMENT 3 PARA 8-6-10.M.(1).
16. UPDATED FAS OBSTACLE IN ADDITIONAL FLIGHT DATA FROM "956 TANK 410851 /923022" TO "1050 AAO 410905N/0923042W" - NEW CONTROLLING OBSTACLE IN FINAL SEGMENT.
17. UPDATED ALTERNATE MINIMUMS FROM "STANDARD" TO "STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE" - IAW 8260.19I ATTACHMENT 4 PARA 5.B.
18. UPDATED S-13 MDA/HAT FROM "1220/376" TO "1300/458" AND CAT C VISIBILITY FROM "1" TO "1 3/8" - NEW CONTROLLING OBSTACLE AND HAT ADJUSTED FOR NEW TDZE, VIS UPDATE PER 8260.3E TABLE 3-3-1.
19. UPDATED CIRCLING CAT A CMDA/HAA FROM "1220/378" TO "1300/454" - INCREASE FOR STRAIGHT-IN MINIMUMS.
20. UPDATED CIRCLING CAT B HAA FROM "455" TO "454" AND CAT C HAA FROM "555" TO "554" - AIRPORT ELEVATION UPDATED.



**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

SCOTT WIEBE

*Digitally signed by*

**JASON KRETSCHMER**

Jul 21, 2022

**OFFICE**

FPO

**DATE**

07/18/2022

**DEVELOPED BY**

JASON KRETSCHMER (COLIN CAMPBELL)

*Digitally signed by*

**JASON KRETSCHMER**

May 31, 2022

**OFFICE**

AJV-A421

**DATE**

04/04/2022

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by*

**JASON KRETSCHMER**

May 31, 2022

**OFFICE**

AJV-A420

**DATE**

**TITLE**

MANAGER



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KOTM	<u>PROCEDURE NAME</u> LOC BC RWY 13	<u>AMDT NO.</u> 4	<u>CITY</u> OTTUMWA	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 846	<u>FACILITY</u> I-OTM
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM  
OTM VOR/DME

TO  
RINER/OTM 12.45 DME

<u>RNP</u>	<u>DISTANCE</u> 12.44	<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>
												STACK (19-000533)	410553.00N/0923318.00W	1285	500	125	5E	1000				AT215	2500
												TERRAIN	410842.00N/0923015.00W	875 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE: PT

FROM  
10 NM

TO  
RINER/OTM 12.45 DME

<u>RNP</u>	<u>DISTANCE</u> 10.00	<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 (19-001071)	411625.93N/0923647.78W	1148	500	50	5D	500					1700
												TERRAIN	411224.00N/0923512.00W	892 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL

FROM  
RINER/OTM 12.45 DME

TO  
ODINN/OTM 8.41 DME

RNP	DISTANCE 4.05	PAT	MAP ODINN/OTM 8.41 DME	HAT 458	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	410905.30N/0923042.47W		1050	50	20	2C	250					1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

PROCEDURE TURN

FROM  
RINER/OTM 12.45 DME

TO  
10 NM

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (19-059847)	411213.55N/0925107.75W		1326	250	50	4D	1000				AT174	2500
TERRAIN	411248.00N/0925251.00W		898 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH

FROM  
ODINN/OTM 8.41 DME

TO  
OTM VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1050					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
AAO	410251.00N/0922421.00W		1067	164	98	4E	1000					2100
TERRAIN	410251.00N/0922421.00W		866 (900)								AS1500	2400

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	410748.24N/0922726.45W	1.30	454	949	50	20	2C	300		SI	1300
CATEGORY B											
TREE	410748.24N/0922726.45W	1.83	454	949	50	20	2C	300		SI	1300
CATEGORY C											
TOWER (19-002134)	410549.00N/0923024.00W	2.89	554	1045	250	50	4D	300		AC50	1400

CIRCLING REMARKS:

MSA

CENTER  
OTM VOR/DME

RADIUS  
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (19-001087)	411139.00N/0915716.00W	053	19.5	1950	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
ZAU ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KOTM	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOTM	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KOOA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOOA	<u>DISTANCE</u> 7.44	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 18

WX REMARKS:  
RASS PRESSURE PATTERNS THE SAME  
KOTM 846, KOOA 841  
RA = 17.9.

<u>PRIMARY NAVAID</u> I-OTM	<u>MONITOR POINT</u> MOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW04 - HIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-G	
RW22 - HIRL (PCL), REIL (PCL), PAPI-2L (PCL)	NPI-G	
RW13 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	PIR-G	
RW31 - MALSR (PCL), HIRL (PCL)	PIR-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> 3.00	<u>TCH</u> 40.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	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





**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

<b><u>PENETRATIONS REMARKS:</u></b>

**PART C: GENERAL REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
  
TREES ASSUMED TO BE 100 FEET PER FPT.  
  
FOR CONTINGENCY PURPOSES:  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OSKALOOSA ALTIMETER SETTING AND INCREASE ALL MDAS 20 FEET.  
CHART NOTE: VDP NA WHEN USING OSKALOOSA ALTIMETER SETTING.  
  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KOTM	<u>PROCEDURE NAME</u> LOC BC RWY 13	<u>AMDT NO.</u> 4	<u>CITY</u> OTTUMWA	<u>STATE</u> IA	<u>AIRPORT ELEVATION</u> 846	<u>FACILITY</u> I-OTM
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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	3.10
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	134.96
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.77
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.25
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	134.96
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD  
COORDINATES  
(IF STR-IN)

410640.23N/0922722.01W

ARP COORDINATES

410626.00N/0922649.80W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 31 DISTANCE 0.55 NM

FAF  
COORDINATES

411002.51N/0923150.12W

FIX NAME  
COORDINATES

MAP ODINN: 410710.96N/0922802.70W

REMARKS

QUALITY  
20  
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 7 of 8

PART E: PREPARED BY

<u>NAME</u> JASON KRETSCHMER (COLIN CAMPBELL)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 04/04/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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