

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> KSBN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9R	<u>ORIGINAL/AMENDMENT</u> 10B	<u>CITY</u> SOUTH BEND	<u>STATE</u> IN		
<u>AIRPORT ELEVATION</u> 798	<u>TDZE</u> 790	<u>SUPERSEDED</u> ILS OR LOC RWY 9R	<u>ORIGINAL/AMENDMENT</u> 10A	<u>DATED</u> 12/05/2019	<u>MAG VAR</u> 5W	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> I-UXW	<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>
STYLE INT		MCITY INT					167.24	4.83 (OXI R-345)	2600
MISHA LOM		KNUTE OM/INT					273.87	10.30	2600
MCITY INT	IAF	PRAIR INT	NOPT				093.79	9.10 (I-UXW)	2600
OXI VOR/DME	IAF	PRAIR INT	NOPT				010.00	22.89	2600
PRAIR INT	IF	KNUTE OM/INT					093.79	5.90 (I-UXW)	2600

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.34 NM AFTER KNUTE INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT MISHA LOM/INT AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 2600 DIRECT GIJ VORTAC AND HOLD.



AIRPORT ID
KSBN

PROCEDURE NAME
ILS OR LOC RWY 9R

ORIGINAL/AMENDMENT
10B

CITY
SOUTH BEND

STATE
IN

CHANGES - REASONS

1. UPDATED MAGVAR FOR KSBN AND I-UXW FROM 03W TO 05W- MAGVAR.
2. UPDATED COURSE REVERSAL OUTBOUND COURSE FROM 271.79 TO 273.79 - MAGVAR.
3. UPDATED FEEDER COURSE STYLE INT TO MCITY INT FROM 165.24 TO 167.24 - MAGVAR.
4. UPDATED FEEDER COURSE MISHA LOM TO KNUTE OM/INT FROM 271.87 TO 273.87 - MAGVAR.
5. UPDATED INITIAL COURSE MCITY INT TO PRAIR INT FROM 091.79 TO 093.79 - MAGVAR.
6. UPDATED INITIAL COURSE OXI VOR/DME TO PRAIR INT FROM 008.00 TO 010.00 - MAGVAR.
7. UPDATED INTERMEDIATE COURSE PRAIR INT TO KNUTE OM/INT FROM 091.79 TO 093.79 - MAGVAR.
8. UPDATED FINAL COURSES ILS AND LOC FROM 091.79 TO 093.79 - MAGVAR.
9. UPDATED FAC FROM 091.79 TO 093.79 - MAGVAR.

COORDINATED WITH:

A4A ☒ **ALPA** ☐ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU ARTCC, SBN ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE
FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by
CASIMIR L TABAKA
Apr 11, 2022

DEVELOPED BY

CASEY HILL **CASEY D HILL**
Mar 22, 2022

OFFICE

AJV-A432

DATE

12/15/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by
CASIMIR L TABAKA
Apr 11, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
10
CHECKED

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

<u>AIRPORT ID</u> KSBN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9R	<u>AMDT NO.</u> 10B	<u>CITY</u> SOUTH BEND	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 798	<u>FACILITY</u> I-UXW
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TO
STYLE INT MCITY INT

<u>RNP</u>	<u>DISTANCE</u> 4.83	<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>
1.TWR (18-001589)	413834.00N/0864753.00W		1230	500	50	5D	1000				AT370	2600
2.TERRAIN	413818.00N/0864833.00W		919 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM TO
MISHA LOM KNUTE OM/INT

<u>RNP</u>	<u>DISTANCE</u> 10.30	<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>
3.TWR (18-000488)	413658.06N/0861137.89W		1918	500	50	5D	1000				SA-600 AT282	2600
4.TERRAIN	414512.00N/0862121.00W		903 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
MCITY INT

TO
PRAIR INT

RNP	DISTANCE 9.10	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1.TWR (18-001589)	413834.00N/0864753.00W		1230	500	50	5D	1000				AT370	2600
5.TERRAIN	414145.00N/0864033.00W		952 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
OXI VOR/DME

TO
PRAIR INT

RNP	DISTANCE 22.89	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.TWR (18-001121)	413557.00N/0864102.00W		1209	250	50	4D	1000				AT391	2600
7.TERRAIN	414139.00N/0864009.00W		916 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM
PRAIR INT

TO
KNUTE OM/INT

RNP	DISTANCE 5.90	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TWR (18-001917)	414435.00N/0863125.00W		1180	500	50	5D	500				AT920	2600
9.TERRAIN	414048.00N/0863000.00W		873 (900)								AS1500	2400

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

SEGMENT REMARKS:

FINAL: ILS

FROM
GP INTCP

TO
DA

RNP	DISTANCE 5.30	PAT	MAP DA	HAT 200			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				990

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

SEGMENT REMARKS:



FACILITY
I-UXW

HMAS

RF CENTER FIX/DISTANCE

HMAS

RF CENTER FIX/DISTANCE

QUALITY
10
CHECKED

MISSED APPROACH : ILS

FROM
DA

TO
MISHA LOM

RNP	DISTANCE	PAT	MAP	HAT			HMAS 823					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
11.AAO	414315.00N/0861315.00W		1008	50	20	2C	1000					2100
12.TERRAIN	414315.00N/0861315.00W		808 (800)								AS1500	2300

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

MISSED APPROACH : LOC

FROM
5.34 NM AFTER KNUTE INT

TO
MISHA LOM

RNP	DISTANCE	PAT	MAP	HAT			HMAS 950					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
11.AAO	414315.00N/0861315.00W		1008	50	20	2C	1000					2100
12.TERRAIN	414315.00N/0861315.00W		808 (800)								AS1500	2300

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



MISSED APPROACH ALTERNATE : ILS

FROM
DA

TO
GIJ VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 823					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
13.TWR (18-001499)	414457.60N/0860710.50W		1300	50	20	2C	1000					2300
14.TERRAIN	414757.00N/0861030.00W		837 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : LOC

FROM
5.34 NM AFTER KNUTE INT

TO
GIJ VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 950					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2600
13.TWR (18-001499)	414457.60N/0860710.50W		1300	50	20	2C	1000					2300
14.TERRAIN	414757.00N/0861030.00W		837 (800)								AS1500	2300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID

KSBN

PROCEDURE NAME

ILS OR LOC RWY 9R

AMDT NO.

10B

CITY

SOUTH BEND

STATE

IN

AIRPORT ELEVATION

798

FACILITY

I-UXW

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											
15.TREE (18-036737)	414312.60N/0862057.09W	1.30	482	966	20	3	1A	300			1280
CATEGORY B											
16.TANK (18-002286)	414335.00N/0862130.00W	1.83	482	972	50	20	2C	300			1280
CATEGORY C											
17.BLDG (18-000388)	414037.00N/0861509.00W	2.88	642	1078	500	50	5D	300		AC50	1440
CATEGORY D											
18.TWR (18-001113)	414337.40N/0862431.00W	3.77	702	1149	500	50	5D	300		AC50	1500

CIRCLING REMARKS:

MSA

CENTER

SB NDB

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (18-002311)	413655.00N/0861107.00W	167	05.6	1949	500	50	5D	1000			3000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

ESV ON FILE, FLIGHT INSPECTION DATED 04/26/1985 FOR UXW LOC COURSE USEABLE OUT TO 23 NM, COVERS "MCITY" FIX 21.83 NM.

VEGETATION: 100' PER FPT.

LOC FINAL OBST #10 (939 AAO) VERIFIED VIA MAP STUDY TO ACHIEVE 2C ACCURACY.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
SBN TOWER, SBN APP CON, ZAU ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KSBN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KSBN	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
NO BACKUP ALTIMETER SOURCE. REDUNDANT WX SOURCE AVAILABLE.

<u>PRIMARY NAVAID</u> I-UXW	<u>MONITOR POINT</u> SBN ATCT	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW9L - MIRL, PAPI-2L		NPI-G	
RW18 - MIRL (PCL), PAPI-4L		NPI-G	
RW27R - MIRL, PAPI-2L		NPI-G	
RW36 - MIRL (PCL), PAPI-4L		NPI-G	
RW9R - MALSF (PCL), HIRL (PCL), PAPI-4L		PIR-G	ROLL OUT
RW27L - MALSR (PCL), HIRL (PCL), PAPI-4L		PIR-G	APPROACH

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 789.9	<u>TCH</u> 54.8	<u>ELEV GS ANTENNA</u> 782.2	<u>DISTANCE FROM RWY</u> 1150	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 55.7
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

☒

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

☒

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

CRITICAL HIGH

ACT

APT ISA

CRITICAL TEMPERATURE REMARKS:



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	ILS/LOC
34:1	
891 TREE (18-023766) 414209.34N/0862031.43W (5.17)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - FINAL FACILITY DOES NOT HAVE DME.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1019 INDUSTRIAL_SYSTEM (18-001150) 414155.00N/0862749.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KSBN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 9R	<u>AMDT NO.</u> 10B	<u>CITY</u> SOUTH BEND	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 798	<u>FACILITY</u> I-UXW
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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	3.00
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.87
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	088.79
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	THLD	TO 1500FT POINT	4.57
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	088.79
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	800

THRESHOLD
COORDINATES
(IF STR-IN)

414215.58N/0861945.90W

ARP COORDINATES

414229.61N/0861902.42W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 27L DISTANCE 0.87 NM

FAF
COORDINATES

414208.59N/0862653.65W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
10
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASEY HILL	<u>OFFICE</u> AJV-A432	<u>DATE</u> 12/15/2021	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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