

**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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
LWD	RNAV (GPS) RWY 18	1A	LAMONI	IA		
<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SUPERSEDED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>
1131	1131	RNAV (GPS) RWY 18	1	12/02/2021	3E	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		14 MAY 2026	ROUTINE			

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 088/30 CW 268/30	NOPT	TOQIC	IF/IAF	3200
2. 268/30 CW 358/30		VUGHO	IAF	3200
3. 358/30 CW 088/30		XERMY	IAF	3200

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>
VUGHO	IAF	TOQIC	NOPT	TF	FB	1.00	268.31	6.46	3200
XERMY	IAF	TOQIC	NOPT	TF	FB	1.00	088.13	6.46	3200
TOQIC	IF/IAF	QUTMU		TF	FB	1.00	178.22	4.91	2800
QUTMU	FAF	RW18	MAP	TF	FO	0.30	178.23	5.09	
RW18	MAP	2000 MSL		CA			178.23		2000
2000 MSL		TOQIC		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT TOQIC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD N TOQIC, RT, 178.22 INBOUND, 3200 IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	178.23	FAF:	QUTMU	DIST FAF TO MAP:	5.09	DIST FAF TO THLD:	5.09							
4.	MIN ALT:	TOQIC 3200, QUTMU 2800													
5.	DIST TO THLD FROM PFAF:	5.09	MM:		IM:		150 HAT:		250 HAT:	0.63	GS ANT:				
6.	MIN GP INCPT:	2800	GP ALT AT PFAF:	QUTMU 2800					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	50.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA W OF RWY 18-36.
CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

FAS OBST: 1250 AAO 404130N/0935436W.
CHART VDP AT 1.01 NM TO RW18.
WAAS CHANNEL # 65645
REFERENCE PATH ID: W18A
LTP HAE: 312.6 M

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
LPV DA	1381	1	250	1381	1	250	1381	1	250	1381	1	250			
LNAV/VNAV DA	1381	1	250	1381	1	250	1381	1	250	1381	1	250			
LNAV MDA	1500	1	369	1500	1	369	1500	1	369	1500	1	369			
CIRCLING	1520	1	389	1720	1	589	1720	1 1/2	589	1720	2	589			

CHANGES - REASONS

1. REMOVED CHART CIRCLING ICON FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
2. TAA: ALL ALTITUDES CHANGED FROM 3000 TO 3200 - 2181 TOWER OBSTACLE IN SECTOR 088/30 CW TO 268/30 TOQIC..
3. TERMINAL ROUTES: CHANGED IAF ALTITUDES FROM 3000 TO 3200 - TO MATCH STRAIGHT IN TAA ALTIUDE.
4. MISSED APPROACH INSTRUCTIONS CHANGED FROM CLIMB TO 2000, THEN CLIMBING LEFT TURN 3000 DIRECT TOQIC AND HOLD TO CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT TOQIC AND HOLD - CORRECT FORMATTING.
5. PROFILE LINE 2: CHANGED FROM 3000 IN LIEU OF PT (IAF) TO 3200 IN LIEU OF PT (IAF) - TAA STRAIGHT SECTOR RAISED TO CLEAR OBSTACLE AT IAF.
6. PROFILE LINE 4: MIN ALT CHANGED FROM TOQIC 3000 TO 3200 - IAF ALTITUDE INCREASED PER ARRIVAL OBSTACLE.
7. ADDITIONAL FLIGHT DATA: CHANGED FROM FAS OBST: 1240 AAO 404130N/0935442W TO FAS OBST: 1250 AAO 404130N/0935436W - UPDATED EVALUATION.
8. ADDITIONAL FLIGHT DATA: 7:1 OBSTACLE NOW RELOCATED TO DASH 9 AND UPDATED.



COORDINATED WITH:

A4A

☐

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY
SUSANNA ROBERTS

Digitally signed by

RAKE MCGRAW

Mar 09, 2026

OFFICE

AJF

DATE

03/08/2026

DEVELOPED BY
RAYMOND JOHNSON

Digitally signed by

RAKE MCGRAW

Mar 09, 2026

OFFICE

AJV-A422

DATE

12/03/2025

APPROVED BY
RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Mar 09, 2026

OFFICE

AJV-A422

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLWD
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	403813.4065N
LTP/FTP LONGITUDE	0935407.5425W
LTP/FTP ELLIPSOIDAL HEIGHT	+03126
FPAP LATITUDE	403644.2680N
FPAP LONGITUDE	0935410.0420W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	1185F65E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03440
FPAP ORTHOMETRIC HEIGHT	+03440

