

**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> KATY	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> WATERTOWN	<u>STATE</u> SD		
<u>AIRPORT ELEVATION</u> 1749	<u>TDZE</u> 1745	<u>SUPERSEDED</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/14/2017	<u>MAG VAR</u> 6E	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 29 DECEMBER 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>
ASTOE	IAF	RIPVE	NOPT	TF	FB	1.00	296.54	26.11	4000
ZOTBY	IAF	RIPVE	NOPT	TF	FB	1.00	038.76	20.56	4000
RIPVE	IF/IAF	OXSAS		TF	FB	1.00	354.25	5.91	3800
OXSAS	FAF	FOMLI/3.50 NM TO RW35		TF	FB	0.30	354.25	2.79	
FOMLI/3.50 NM TO RW35		RW35	MAP	TF	FO	0.30	354.25	3.50	
RW35	MAP	1945 MSL		CA			354.25		
1945 MSL		BOBDE		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT BOBDE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S RIPVE, RT, 354.25 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 354.25FAF: OXSASDIST FAF TO MAP: 6.29DIST FAF TO THLD: 6.29

4. MIN ALT: RIPVE 4000, OXSAS 3800, FOMLI/3.50 NM TO RW35 2900

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.46GS ANT:

6. MIN GP INCPT: 3800GP ALT AT PFAF : OXSAS 3800OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 53.4

8. MSA FROM: RW35 4600

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 1/8 SM.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 174.25 INBOUND.
CHART FAS OBST: 1864 TREE (46-033402) 445423N/0970937W.
CHART VDP AT 1.14 NM TO RW35.
WAAS CHANNEL # 82614
REFERENCE PATH ID: W35A
CHART CIRCLING ICON.
LTP HAE: 506.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, 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	1945	1/2	200	1945	1/2	200	1945	1/2	200	1945	1/2	200			
LNAV/VNAV DA	2180	3/4	435	2180	3/4	435	2180	3/4	435	2180	3/4	435			
LNAV MDA	2160	1/2	415	2160	1/2	415	2160	3/4	415	2160	3/4	415			
CIRCLING	2260	1	511	2260	1	511	2500	2 1/4	751	2500	2 1/2	751			



CHANGES - REASONS

1. REMOVED FEEDER SEGMENT ATY VORTAC TO RIPVE. - VOR MON INITIATIVE ATY VORTAC DECOMMISSIONED.
2. ADDED "MAX 6000" TO PROFILE LINE 2 - IAW 8260.19I, 8-6-7.B(2).
3. CHANGED PROFILE LINE 4 FROM "FOMLI/3.50 NM TO RW35 2900*" TO "FOMLI/3.50 NM TO RW35 2900" - ASTERISK NO LONGER REQUIRED.
4. UPDATED CHART NOTE: FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C (-5°F) OR ABOVE 54°C (130°F)." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C." - 8260.19I PARA 8-6-9.R.
5. DELETED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH - GPS" TO PBN REQUIREMENTS NOTE - 8260.19I PARA 8-6-8.B (2).
6. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - 8260.19I, 8-6-7.G.(3).
7. UPDATED ADDITIONAL FLIGHT DATA: FROM "CHART FAS OBST: 1864 TREE 445423N/0970937W." TO "CHART FAS OBST: 1864 TREE (46-033402) 445423N/0970937W." - 8260.19I 8-6-10.C.
8. ADDITIONAL FLIGHT DATA UPDATED FROM "CHART VDP AT 1.14 NM TO RW35*" AND "LNAV ONLY" TO "CHART VDP AT 1.14 NM TO RW35." - LNAV ONLY NO LONGER REQUIRED.
9. ALTERNATE: CHANGED FROM "STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2." TO "STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE." - 8260.3E, TABLE 3-3-1.
10. UPDATED LNAV/VNAV VISIBILITY FROM "1" TO "3/4" - 8260.3E, TABLE 3-3-1.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, HON FSS, 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

ERIC N SUSKI

Aug 04, 2022

DEVELOPED BY

DONALD H. LANIER (COLE NESBITT)

OFFICE

AJV-A431

DATE

04/26/2022

Digitally signed by

ERIC N SUSKI

Aug 04, 2022

APPROVED BY

CASIMIR TABAKA

OFFICE

AJV-A430

DATE

TITLE
MANAGER

Digitally signed by

ERIC N SUSKI

Aug 04, 2022



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KATY
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	445405.9550N
LTP/FTP LONGITUDE	0970904.2160W
LTP/FTP ELLIPSOIDAL HEIGHT	+05061
FPAP LATITUDE	445535.0460N
FPAP LONGITUDE	0970903.6690W
THRESHOLD CROSSING HEIGHT (TCH)	00053.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0648
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	F5021EBF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05312
FPAP ORTHOMETRIC HEIGHT	+05312

