

**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.

<b><u>AIRPORT</u></b> MARSHALLTOWN MUNI	<b><u>AIRPORT ID</u></b> KMIW	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 13	<b><u>ORIGINAL/AMENDMENT</u></b> 1B	<b><u>CITY</u></b> MARSHALLTOWN	<b><u>STATE</u></b> IA
<b><u>AIRPORT ELEVATION</u></b> 975	<b><u>TDZE</u></b> 975	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 13	<b><u>ORIGINAL/AMENDMENT</u></b> 1A	<b><u>DATED</u></b> 03/31/2016	<b><u>MAG VAR</u></b> 1E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 28 FEBRUARY 2019	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 2010

**TAA**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>ALTITUDE</u></b>
1. 036/30 CW 216/30	NOPT	036/10 CW 216/10		2800
1. 036/10 CW 216/10		BRIDY	IF/IAF	2700
2. 216/30 CW 036/30		BRIDY	IF/IAF	2700

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
BRIDY	IF/IAF	ATAXE		TF	FB	1.00	125.93	5.96	2600
ATAXE	FAF	IKUDY/1.90 NM TO RW13		TF	FB	0.30	126.00	3.08	
IKUDY/1.90 NM TO RW13		RW13	MAP	TF	FO	0.30	126.00	1.90	
RW13	MAP	1225 MSL		CA			126.00		
1225 MSL		VUNDY		DF	FO	1.00			2600

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW13

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2600 DIRECT VUNDY AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NW BRIDY, RT, 125.93 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 126.00FAF: ATAXEDIST FAF TO MAP: 4.97DIST FAF TO THLD: 4.97

4. MIN ALT: BRIDY 2700, ATAXE 2600, IKUDY/1.90 NM TO RW13 1620\*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 2600GP ALT AT FAF : ATAXE 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 41.8

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.  
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING GRINNELL ALTIMETER SETTING.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C OR ABOVE 54C.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRINNELL ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL MDA 80 FEET; INCREASE LNAV CATS C/D AND CIRCLING CAT D VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 0.95 NM TO RW13\*  
\*LNAV ONLY  
WAAS CHANNEL #50236  
REFERENCE PATH ID: W13A  
CHART FAS OBST: 1052 TREE 420701N/0925457W.  
CHART: 1083 ELEVATOR 420824N/0925730W.  
HOLD SE, RT, 306.20 INBOUND  
LTP HAE: 265.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4, 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	1225	1	250	1225	1	250	1225	1	250	1225	1	250			
LNAV/VNAV DA	1225	1	250	1225	1	250	1225	1	250	1225	1	250			
LNAV MDA	1320	1	345	1320	1	345	1320	1	345	1320	1	345			
CIRCLING	1400	1	425	1440	1	465	1460	1 1/2	485	1840	2 3/4	865			

CHANGES - REASONS

1. REMOVED EQUIPMENT NOTE: DME/DME RNP-0.3 NA - 8260.19H DOCUMENTATION REQUIREMENT.
2. ADDED PBN NAVSPEC EQUIPMENT NOTE: RNP APCH - 8260.19H DOCUMENTATION REQUIREMENT.
3. LINE 7: ADDED 20:1 IS CLEAR - 8260.19H DOCUMENTATION REQUIREMENT.
4. ALTIMETER SETTING CHART NOTE: CHANGED "FT" TO "FEET" AND "MILE" TO "SM" - 8260.19H NOTES STANDARDIZATION.
5. ADDED CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT - NO OIS SURVEY.
6. INTERMEDIATE SEGMENT BRIDY TO ATAXE CHANGED RNP VALUE FROM 0.50 TO 1.00 - UPDATED ARINC REQUIREMENT.
7. MISSED APPROACH SEGMENT 1225 TO LIENS ADDED RNP 1.00 - UPDATED ARINC REQUIREMENT.

COORDINATED WITH:

A4A ☐

ALPA ☒

AOPA ☒

APA ☐

HAI ☐

NBAA ☒

OTHER: ZAU, ALO APP CON, AMGR

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

OFFICE

DATE

Digitally signed by  
ROBERT G HAMILTON  
Oct 15, 2018

DEVELOPED BY

DAVID A. DOWLING

Digitally signed by  
DAVID A DOWLING  
Oct 03, 2018

OFFICE

AJV-5422

DATE

09/18/2018

APPROVED BY

JULIE MORGAN

OFFICE

AJV-5420

DATE

Digitally signed by  
ROBERT G HAMILTON  
Oct 15, 2018

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMIW
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	420701.2415N
LTP/FTP LONGITUDE	0925526.4835W
LTP/FTP ELLIPSOIDAL HEIGHT	+02653
FPAP LATITUDE	420607.5125N
FPAP LONGITUDE	0925350.9690W
THRESHOLD CROSSING HEIGHT (TCH)	00041.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	23763953

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02970
FPAP ORTHOMETRIC HEIGHT	+02970

