# 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.

| AIRPORT ID | PROCEDURE NAME | ORIGINAL/AMENDMENT | | CITY | STATE |
|---|---|---|---|---|---|
| MIW | RNAV (GPS) RWY 13 | 1C | | MARSHALLTOWN | IA |
| **AIRPORT ELEVATION** | **TDZE** | **SUPERSEDED** | **ORIGINAL/AMENDMENT** | **DATED** | **MAG VAR** / **EPOCH YEAR** |
| 975 | 975 | RNAV (GPS) RWY 13 | 1B | 02/28/2019 | 1E / 2010 |
| **FACILITY** | **COORDINATES OF FACILITIES** | **ACTUAL EFFECTIVE DATE** | **REQUIRED EFFECTIVE DATE** | **CANCEL/SUSPEND** | |
| RNAV | | | ROUTINE | | |

## TAA

| FROM | FIX TYPE | TO | FIX TYPE | ALTITUDE |
|---|---|---|---|---|
| 1. 036/30 CW 216/30 | NOPT | 036/10 CW 216/10 | | 2800 |
| 2. 036/10 CW 216/10 | | BRIDY | IF/IAF | 2700 |
| 3. 216/30 CW 036/30 | | BRIDY | IF/IAF | 2800 |

## TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|---|---|---|---|---|---|---|---|---|---|
| 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:**

| AIRPORT ID | PROCEDURE NAME | ORIGINAL/AMENDMENT | CITY | STATE |
|---|---|---|---|---|
| MIW | RNAV (GPS) RWY 13 | 1C | MARSHALLTOWN | IA |

## PROFILE:

1. **PT**        **SIDE OF COURSE**        **OUTBOUND**        **FT WITHIN**        **MILES OF**    (IAF)
2. HOLD NW BRIDY, RT, 125.93 INBOUND, 2700 IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 126.00        **FAF:** ATAXE        **DIST FAF TO MAP:** 4.97        **DIST 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:** 0.65        **GS ANT:**
6. **MIN GP INCPT:** 2600        **GP ALT AT PFAF:** ATAXE 2600        **OM:**        **MM:**        **IM:**
7. **GP ANGLE:** 3.00        **34:1:** IS CLEAR        **20:1:** IS CLEAR        **TCH:** 41.8
8. **MSA FROM:**

## PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

## NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING GGI ALTIMETER SETTING.
CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GGI ALTIMETER SETTING AND INCREASE LPV DA TO 1289 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1289 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM.

## ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 306.20 INBOUND.
CHART FAS OBST: 1060 GRAIN_ELEVATOR (19-065974) 420709N/0925613W.
CHART 1083 ELEVATOR (19-026075) 420824N/0925730W.
CHART VDP AT 0.95 NM TO RW13.
WAAS CHANNEL # 50236
REFERENCE PATH ID: W13A
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 | 3/4 | 250 | 1225 | 3/4 | 250 | 1225 | 3/4 | 250 | 1225 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 1225 | 3/4 | 250 | 1225 | 3/4 | 250 | 1225 | 3/4 | 250 | 1225 | 3/4 | 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 | | | |

QUALITY CHECKED 13

## CHANGES - REASONS

1. TAA: UPDATED 216/30 CW 036/30 ALTITUDE FROM "2700" TO "2800" – UPDATED SURVEY, NEW CONTROLLING OBSTACLE IDENTIFIED.
2. PROFILE LINE 4: UPDATED NOTE FROM "BRIDY 2700, ATAXE 2600, IKUDY/1.90 NM TO RW13 1620*" TO "BRIDY 2700, ATAXE 2600, IKUDY/1.90 NM TO RW13 1620" – ASTERISK NO LONGER REQUIRED.
3. PBN REQUIREMENT NOTES: UPDATED NOTE FROM "RNP APCH" TO "RNP APCH - GPS" – IAW 8260.19K 8-6-8.
4. NOTES: UPDATED CHART NOTE FROM "BARO-VNAV AND VDP NA WHEN USING GRINNELL ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING GGI ALTIMETER SETTING" – IAW 8260.19K 8-6-10.
5. NOTES: UPDATED CHART NOTE FROM "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" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GGI ALTIMETER SETTING AND INCREASE LPV DA TO 1289 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE LNAV/VNAV DA TO 1289 FEET AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/4 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM" – IAW 8260.19K 8-6-10.
6. ADDITIONAL FLIGHT DATA: REMOVED "CHART CIRCLING ICON" AND "*LNAV ONLY" – NO LONGER REQUIRED.
7. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM "CHART VDP AT 0.95 NM TO RW13*" TO "CHART VDP AT 0.95 NM TO RW13" – ASTERISK NO LONGER REQUIRED.
8. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM "1052 TREE 420701N/0925457W" TO "1060 GRAIN_ELEVATOR (19-065974) 420709N/0925613W" – NEW SURVEY, NEW OBSTACLE IDENTIFIED.
9. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM "CHART: 1083 ELEVATOR 420824N/0925730W" TO "CHART 1083 ELEVATOR (19-026075) 420824N/0925730W" – IAW 8260.19K 8-6-11.
10. MINIMUMS: UPDATED LPV DA AND LNAV/VNAV DA VIS FROM "1" TO "3/4" – IAW 8260.3E TABLE 3-3-1.
11. FAS DATA: UPDATED FPAP LONGITUDE/LATITUDE FROM "420607.5125N/ 0925350.9690W" TO "420607.5120N/ 0925350.9695W" AND CRC REMAINDER FROM "23763953" TO "1ABB9E25."

## COORDINATED WITH:

A4A ☐   ALPA ☒   AOPA ☒   APA ☐   HAI ☐   NBAA ☒   **OTHER:** ZAU, ALO APP CON, AMGR

| FLIGHT CHECKED BY | | OFFICE | DATE | |
|---|---|---|---|---|
| SCOTT WIEBE | Digitally signed by *RAKE MCGRAW* Dec 16, 2025 | AJF | 12/14/2025 | |

| DEVELOPED BY | | OFFICE | DATE | |
|---|---|---|---|---|
| RAKE MCGRAW (JUDITH TUTTLE) | Digitally signed by *RAKE MCGRAW* Dec 16, 2025 | AJV-A431 | 08/26/2025 | |

| APPROVED BY | | OFFICE | DATE | TITLE |
|---|---|---|---|---|
| RAKE MCGRAW | Digitally signed by *RAKE MCGRAW* Dec 16, 2025 | AJV-A422 | | MANAGER |

QUALITY CHECKED 13

**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 | 420607.5120N |
| FPAP LONGITUDE | 0925350.9695W |
| 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 | 1ABB9E25 |

**ADDITIONAL PATH POINT RECORD INFORMATION**

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

QUALITY
13
CHECKED

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

| AIRPORT ID | PROCEDURE NAME | AMDT NO. | CITY | STATE | AIRPORT ELEVATION | FACILITY |
|---|---|---|---|---|---|---|
| MIW | RNAV (GPS) RWY 13 | 1C | MARSHALLTOWN | IA | 975 | RNAV |

## PART A: OBSTRUCTION DATA SEGMENTS

**STRAIGHT-IN AREA**

| FROM | TO |
|---|---|
| 036/30 CW 216/30 | 036/10 CW 216/10 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| | | | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WINDMILL (19-065062) | 421040.74N/0934956.73W | 1759 | 250 | 50 | 4D | 1000 | | | | | 2800 |
| TERRAIN | 423736.00N/0931621.00W | 1309 (1300) | | | | | | | | AS1500 | 2800 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**STRAIGHT-IN AREA**

| FROM | TO |
|---|---|
| 036/10 CW 216/10 | BRIDY |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| | | | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WINDMILL (19-053997) | 422045.61N/0925811.40W | 1624 | 250 | 50 | 4D | 1000 | | | | | 2700 |
| TERRAIN | 421524.00N/0931445.00W | 1171 (1200) | | | | | | | | AS1500 | 2700 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**STRAIGHT-IN AREA**

| FROM | | TO |
|---|---|---|
| 216/30 CW 036/30 | | BRIDY |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| | | | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WINDMILL (19-069177) | 420527.68N/0923514.41W | 1720 | 250 | 50 | 4D | 1000 | | | | | 2800 |
| TERRAIN | 420451.00N/0931524.00W | 1158 (1200) | | | | | | | | AS1500 | 2700 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**INTERMEDIATE**

| FROM | | TO |
|---|---|---|
| BRIDY (IF/IAF) | | ATAXE |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 1.00 | 5.96 | | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TOWER (19-021033) | 421402.55N/0930456.72W | 1332 | 250 | 50 | 4D | 500 | | | | | 1900 |
| TERRAIN | 421151.00N/0930736.00W | 1053 (1100) | | | | | | | | AS1500 | 2600 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

QUALITY
13
CHECKED

**FINAL: LPV**

| FROM | | TO |
|---|---|---|
| ATAXE | | RW13 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | 4.98 | | DA | 250 | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TREE (19-031485) | 420659.25N/0925532.32W | 995 | 20 | 3 | 1A | | 34.00:1 | | | SA-6 | 1225 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV/VNAV**

| FROM | | TO |
|---|---|---|
| ATAXE | | RW13 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | 4.98 | | DA | 250 | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASC | | | | 1225 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV**

| FROM | | TO |
|---|---|---|
| ATAXE | | IKUDY/1.90 NM TO RW13 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | 3.08 | | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASC | | | | 1620 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**FINAL: LNAV STEPDOWN**

| FROM | TO |
|---|---|
| IKUDY/1.90 NM TO RW13 | RW13 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | 1.90 | | RW13 | 345 | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRAIN_ELEVATOR (19-065974) | 420709.39N/0925613.06W | 1060 | 20 | 3 | 1A | 250 | | | | | 1320 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**HOLD-IN-LIEU OF PT**

| FROM | TO |
|---|---|
| BRIDY | P-5 |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| | | P-5 | | | |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TOWER (19-000415) | 421132.00N/0931507.00W | 1404 | 250 | 50 | 4D | 1000 | | | | | 2500 |
| TERRAIN | 421524.00N/0931445.00W | 1171 (1200) | | | | | | | | AS1500 | 2700 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

QUALITY CHECKED 13

| AIRPORT ID | PROCEDURE NAME | AMDT NO. | CITY | STATE | AIRPORT ELEVATION | FACILITY |
|---|---|---|---|---|---|---|
| MIW | RNAV (GPS) RWY 13 | 1C | MARSHALLTOWN | IA | 975 | RNAV |

**MISSED APPROACH: LPV**

**FROM**
DA

**TO**
VUNDY

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | | | | | 1038 |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASC | | | | 2600 |
| TOWER (19-001768) | 420022.67N/0924131.70W | 1306 | 500 | 50 | 5D | 1000 | | | | | 2400 |
| TERRAIN | 415933.00N/0924624.00W | 1020 (1000) | | | | | | | | AS1500 | 2500 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

**MISSED APPROACH: LNAV/VNAV**

**FROM**
DA

**TO**
VUNDY

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30 | | | | | 1064 |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASC | | | | 2600 |
| TOWER (19-001768) | 420022.67N/0924131.70W | 1306 | 500 | 50 | 5D | 1000 | | | | | 2400 |
| TERRAIN | 415933.00N/0924624.00W | 1020 (1000) | | | | | | | | AS1500 | 2500 |

**COMPUTATIONS**

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

**SEGMENT REMARKS:**

QUALITY CHECKED 13

**MISSED APPROACH: LNAV**

| FROM | TO |
|---|---|
| RW13 | VUNDY |

| RNP | DISTANCE | PAT | MAP | HAT | HMAS |
|---|---|---|---|---|---|
| 0.30-1.00 | | | | | 1220 |

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ASC | | | | 2600 |
| TOWER (19-001768) | 420022.67N/0924131.70W | 1306 | 500 | 50 | 5D | 1000 | | | | | 2400 |
| TERRAIN | 415933.00N/0924624.00W | 1020 (1000) | | | | | | | | AS1500 | 2500 |

**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 (19-031542) | 420807.12N/0925525.74W | 1.30 | 425 | 1085 | 50 | 20 | 2C | 300 | | | 1400 |
| CATEGORY B | | | | | | | | | | | |
| TREE (19-044523) | 420730.64N/0925243.95W | 1.84 | 465 | 1094 | 50 | 20 | 2C | 300 | | HAA | 1440 |
| CATEGORY C | | | | | | | | | | | |
| TANK (19-026076) | 420841.48N/0925412.41W | 2.89 | 485 | 1156 | 50 | 20 | 2C | 300 | | | 1460 |
| CATEGORY D | | | | | | | | | | | |
| WINDMILL (19-025043) | 420933.80N/0925137.86W | 3.78 | 865 | 1471 | 500 | 50 | 5D | 300 | | AC50 | 1840 |

**CIRCLING REMARKS:**

**MSA/ESA**

| CENTER | RADIUS |
|---|---|
| | |

**REMARKS:**

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**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

QUALITY CHECKED 13

ALO APP CON, ZAU ARTCC, FOD FSS

| WX SERVICE | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
|---|---|---|---|---|---|---|
| ASOS | MIW | 24 | MIW | | Y | 0 |

| BACK-UP WX SERVICE | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
|---|---|---|---|---|---|---|
| AWOS-3 | GGI | 24 | GGI | 25.52 | Y | 64 |

**WX REMARKS:**

RASS PRESSURE PATTERNS THE SAME
KMIW 975, KGGI 1008
RA = 63.4.

| PRIMARY NAVAID | MONITOR POINT | HRS OPERATION | CAT |
|---|---|---|---|
| | | | |

| APPROACH AND RUNWAY LIGHTING SYSTEM | RUNWAY MARKINGS | RUNWAY VISUAL RANGE |
|---|---|---|
| RW18 - MIRL (PCL) | BSC-G | |
| RW36 - MIRL (PCL) | BSC-G | |
| RW13 - MIRL (PCL), REIL (PCL), VASI-4L (PCL) | NPI-F | |
| RW31 - REIL (PCL), MIRL (PCL), VASI-4L (PCL) | NPI-F | |

| GLIDESLOPE ANGLE | ELEV RWY THRESHOLD | TCH | ELEV GS ANTENNA | DISTANCE FROM RWY | VGSI ANGLE | TCH |
|---|---|---|---|---|---|---|
| 3.00 | 974.3 | 41.8 | | | 3.00 | 41.8 |

**FINAL APPROACH COURSE AIMING**

| RUNWAY THRESHOLD | [X] | | FT FROM THRESHOLD | DISPLACED THRESHOLD DISTANCE |
|---|---|---|---|---|
| ON CENTERLINE | [X] | | FT FROM CENTERLINE | |

**CRITICAL TEMPERATURES**

| CRITICAL LOW | CRITICAL HIGH | ACT | | APT ISA |
|---|---|---|---|---|
| -21C | +54C | -26C | | +13.07C |

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020 - 2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 968 HIGH TEMP 1277.

**"VISUAL PORTION OF FINAL" PENETRATIONS**

QUALITY
13
CHECKED

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


and/or


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


| PENETRATIONS REMARKS: |
|---|
|  |


**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2018-04-10:  NOTICE SENT TO FPT ADVISING  CIRCLING RWY 18, 36 NA  AT NIGHT AND 20:1 SURFACE REMAINS UNVERIFIED BECAUSE RWY 18/36 HAS NO SURVEY (TRACKING #2044).

TAA ESTABLISHED PER FPT CHECKLIST, DATED 22 NOV 2013.

VEGETATION 75 FEET USED PER APT MGR AND FPT CHECKLIST, DATED 22 NOV 2013.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1201 AAO 421048.00N/0925954.00W.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1083 ELEVATOR (19-026075) 420824.30N/0925730.08W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

**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** | 2.91 |
| **WIDTH OF** | FINAL | **SEGMENT AT 1000FT POINT** | 1.65 |
| **TRUE COURSE OF** | FINAL | **SEGMENT CONTAINING 1000FT POINT** | 127.01 |
| **HIGH TERRAIN IN** | FINAL | **SEGMENT CONTAINING 1000FT POINT** | 1018 |
| **DISTANCE FROM** | THLD | **TO 1500FT POINT** | 4.71 |
| **WIDTH OF** | FINAL | **SEGMENT AT 1500FT POINT** | 2.00 |
| **TRUE COURSE OF** | FINAL | **SEGMENT CONTAINING 1500FT POINT** | 127.01 |
| **HIGH TERRAIN IN** | FINAL | **SEGMENT CONTAINING 1500FT POINT** | 1018 |

| | |
|---|---|
| **THRESHOLD COORDINATES (IF STR-IN)** | 420701.24N/0925526.48W |
| **ARP COORDINATES** | 420645.90N/0925504.00W |
| **RUNWAY APCH END AND DIST FURTHEST FROM ARP** | RUNWAY 31 DISTANCE 0.45 NM |
| **FAF COORDINATES** | 421001.03N/0930046.71W |
| **FIX NAME COORDINATES** | |

**REMARKS**

NO ADDITIONAL AIRSPACE REQUIRED.


**PART E: PREPARED BY**

| NAME | OFFICE | DATE | TITLE |
|---|---|---|---|
| RAKE MCGRAW (JUDITH TUTTLE) | AJV-A431 | 08/26/2025 | AERONAUTICAL INFORMATION SPECIALIST |

QUALITY 13 CHECKED