

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> | | |
|--------------------------|----------------------------------|------------------------------|--------------------------------|-----------------------|----------------|-------------------|
| CAD | RNAV (GPS) RWY 25 | 1 | CADILLAC | MI | | |
| <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SUPERSEDED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> |
| 1307 | 1305 | RNAV (GPS) RWY 25 | ORIG-B | 12/02/2021 | 4W | 1985 |
| <u>FACILITY</u> | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> | <u>REQUIRED EFFECTIVE DATE</u> | <u>CANCEL/SUSPEND</u> | | |
| RNAV | | | ROUTINE | | | |

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> |
|-------------|-----------------|-----------|-----------------|-----------------|--------------|------------|---------------|-----------------|-----------------|
| TVC VOR/DME | | FUNWI | | TF | FB | 1.00 | 137.09 | 18.34 | 3000 |
| MBL DME | | FUNWI | | TF | FB | 1.00 | 079.18 | 45.15 | 3200 |
| FUNWI | IAF | TEVUY | NOPT | TF | FB | 1.00 | 160.49 | 6.90 | 3000 |
| USOYU | IAF | TEVUY | NOPT | TF | FB | 1.00 | 340.57 | 6.90 | 3000 |
| TEVUY | IF/IAF | JERRO | | TF | FB | 1.00 | 250.52 | 6.03 | 3000 |
| JERRO | FAF | RW25 | MAP | TF | FO | 0.30 | 250.44 | 5.20 | |
| RW25 | MAP | 1555 MSL | | CA | | | 250.44 | | |
| 1555 MSL | | WIKAP | | DF | FO | 1.00 | | | 3600 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW25

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT WIKAP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD E TEVUY, RT, 250.53 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 250.44 FAF: JERRO DIST FAF TO MAP: 5.20 DIST FAF TO THLD: 5.20
- MIN ALT: TEVUY 3000, JERRO 3000
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.66 GS ANT: IM:
- MIN GP INCPT: 3000 GP ALT AT PFAF: JERRO 3000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0
- MSA FROM: RW25 4000

QUALITY
25
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C.
CHART NOTE: RWY 25 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TVC VOR/DME AIRWAY RADIALS 138 CW 152.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 070.18 INBOUND.
CHART FAS OBST: 1545 TREE (26-175733) 441802N/0852236W.
CHART 1656 TOWER (26-001840) 441755N/0851714W.
CHART VDP AT 1.38 NM TO RW25.
WAAS CHANNEL # 97513
REFERENCE PATH ID: W25A
CHART CIRCLING ICON.
LTP HAE: 362.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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 | 1555 | 3/4 | 250 | 1555 | 3/4 | 250 | 1555 | 3/4 | 250 | 1555 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 1800 | 1 3/8 | 495 | 1800 | 1 3/8 | 495 | 1800 | 1 3/8 | 495 | 1800 | 1 3/8 | 495 | | | |
| LNAV MDA | 1800 | 1 | 495 | 1800 | 1 | 495 | 1800 | 1 3/8 | 495 | 1800 | 1 3/8 | 495 | | | |
| CIRCLING | 1820 | 1 | 513 | 1840 | 1 | 533 | 1860 | 1 1/2 | 553 | 2060 | 2 1/2 | 753 | | | |



CHANGES - REASONS

1. TERMINAL ROUTES: FEEDER LEG MOP VOR/DME TO USOYU REMOVED – FACILITY SET FOR DECOMISSION.
2. TERMINAL ROUTES: FEEDER LEG TVC VOR/DME TO FUNWI COURSE CHANGED FROM “139.23” TO “137.09” AND DISTANCE CHANGED FROM “20.10” TO “18.34” – FUNWI MOVED TO COMPLY WITH 8260.58C 1-3-1D.
3. TERMINAL ROUTES: FEEDER LEG MBL DME TO FUNWI COURSE CHANGED FROM “081.54” TO “079.18” AND DISTANCE CHANGED FROM “45.50” TO “45.15” FUNWI MOVED TO COMPLY WITH 8260.58C 1-3-1D.
4. TERMINAL ROUTES: INITIAL LEG FUNWI TO TEVUY COURSE CHANGED FROM “160.50” TO “160.49” AND DISTANCE CHANGED FROM “5.00” TO “6.90” - FUNWI MOVED TO COMPLY WITH 8260.58C 1-3-1D.
5. TERMINAL ROUTES: FEEDER LEG USOYU TO TEVUY COURSE CHANGED FROM “340.56” TO “340.57” AND DISTANCE FROM “5.00” TO “6.90” – USOYU MOVED TO COMPLY WITH 8260.58C 1-3-1D.
6. TERMINAL ROUTES: INTERMEDIATE LEG TEVUY TO JERRO COURSE CHANGED FROM “250.53” TO “250.52” AND DISTANCE FROM “6.10” TO “6.03” – JERRO LOCATION RECALCULATED TO 3.00 GPA AND 45 TCH AT ATC REQUEST.
7. TERMINAL ROUTES: FINAL LEG JERRO TO RW25 DISTANCE CHANGED FROM “5.13” TO “5.20” - JERRO LOCATION RECALCULATED TO 3.00 GPA AND 45 TCH AT ATC REQUEST.
8. TERMINAL ROUTES: MISSED CA LEG CHANGED FROM “RW25 TO 1625 MSL” TO “RW25 TO 1555 MSL” – IAW 8260.58C, 3-5-2.B, NEW DA/MDA DUE TO NEW CONTROLLING OBSTACLE.
9. TERMINAL ROUTES: MISSED DF LEG CHANGED FROM “1625 MSL TO WIKAP” TO “1555 TO WIKAP” - IAW 8260.58C, 3-5-2.B, NEW DA/MDA DUE TO NEW CONTROLLING OBSTACLE.
10. PROFILE LINE 3: DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM “5.13” TO “5.20” – FAF/PFAF LOCATION RECALCULATED TO 3.00 GPA AND 45 TCH AT ATC REQUEST.
11. PROFILE LINE 5: “320 HAT: 0.88” CHANGED TO “250 HAT: 0.66” – NEW CONTROLLING OBSTACLE.
12. PROFILE LINE 7: GP ANGLE CHANGED FROM “3.04” TO “3.00” – IAW 8260.3F PARA 2-6-3.
13. PROFILE LINE 7: TCH CHANGED FROM “44.0” TO “45.0” – FPT REQUEST.
14. NOTES: CHART PLANVIEW NOTE: “PROCEDURE NA FOR ARRIVALS AT MOP VOR/DME ON V233 SOUTHBOUND” REMOVED – MOR VOR/DME TO BE DECOMMISSIONED.
15. NOTES: CHART PLANVIEW NOTE: ADDED "PROCEDURE NA FOR ARRIVAL ON TVC VOR/DME AIRWAY RADIALS 138 CW 152" - IAW 8260.19J, PARA 8-2-5.E.
16. NOTES: CHART NOTE CHANGED FROM “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24° C OR ABOVE 54° C” TO “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22° C OR ABOVE 54° C” – NEW FIVE YEAR HISTORY USED.
17. ADDITIONAL FLIGHT DATA: ADDED “CHART 1656 TOWER (26-001840) 441755N/0851714W” – CURRENT OBSTACLE EVALUATION IDENTIFIES NEW 7:1 OBSTACLE IAW 8260.19J 8-6-11E.(1).
18. ADDITIONAL FLIGHT DATA: CHART FAS OBST CHANGED FROM “1579 TREE 441800N/0852239W” TO “1545 TREE (26-175733) 441802N/0852236W” – NEW FAS OBSTACLE IDENTIFIED.
19. ADDITIONAL FLIGHT DATA: CHART VDP CHANGED FROM “1.52” TO “1.38” – LOWERED LNAV MDA RESULTED IN VDP CHANGE IAW 8260-3F FORMULA 2-6-5.
20. ADDITIONAL FLIGHT DATA: LTP HAE CHANGED FROM “362.2” TO “362.3” – CURRENT AIRNAV DATA INCORPORATED
21. MINIMUMS: LPV CHANGED DA FROM “1625” TO “1555”, VIS FROM “7/8” TO “3/4” AND HAT FROM “320” TO “250” ALL CATS – NEW CONTROLLING OBSTACLE.
22. MINIMUMS: LNAV/VNAV CHANGED DA FROM “1869” TO “1800”, VIS FROM “1 5/8” TO “1 3/8” AND HAT FROM “564” TO “495” ALL CATS – NEW CONTROLLING OBSTACLE.
23. MINIMUMS: LNAV CHANGED MDA “1840” TO “1800” AND HAA FROM “535” TO “495” ALL CATS – NEW CONTROLLING OBSTACLE.
24. MINIMUMS: LNAV CHANGED VIS FROM “1 1/2” TO “1 3/8” CAT C AND D – IAW 8260.3F TABLE 3-3-1.
25. MINIMUMS: CIRCLING CAT A MDA CHANGED FROM "1840" TO "1820" AND HAA FROM "533" TO "513," CAT C MDA CHANGED FROM "2040" TO "1860" AND HAA FROM "733" TO "553" - NEW CONTROLLING OBSTACLE.
26. MINIMUMS: CIRCLING CAT C VIS CHANGED FROM "2" TO "1 1/2" - IAW 8260.3F TABLE 3-3-1.
27. FAS DATA: UPDATED FPAP LAT/LONG FROM “441642.1730N 0852448.0825W” TO “441606.4360N 0852641.6830W”. – NEW AIRNAV DATA/SURVEY.
28. FAS DATA: UPDATED CRC REMAINDER FROM “2D6A6CA2” TO “54AFE6B2” – UPDATED FPAP LATITUDE/LONGITUDE.

COORDINATED WITH:

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

FLIGHT CHECKED BY

OFFICE **DATE**

DEVELOPED BY

ROBERT G HAMILTON (DANIEL R. JOHNSON)

OFFICE **DATE**
AJV-A433 04/17/2025

APPROVED BY

ROBERT G HAMILTON

OFFICE **DATE** **TITLE**
AJV-A433 MANAGER



AIRPORT ID
CAD

PROCEDURE NAME
RNAV (GPS) RWY 25

ORIGINAL/AMENDMENT
1

CITY
CADILLAC

STATE
MI

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KCAD |
| RUNWAY | RW25 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W25A |
| LTP/FTP LATITUDE | 441642.1730N |
| LTP/FTP LONGITUDE | 0852448.0825W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +03623 |
| FPAP LATITUDE | 441606.4360N |
| FPAP LONGITUDE | 0852641.6830W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| 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 | 54AFE6B2 |
|---------------|----------|

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +03956 |
| FPAP ORTHOMETRIC HEIGHT | +03956 |



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

| <u>AIRPORT ID</u> | <u>PROCEDURE NAME</u> | <u>AMDT NO.</u> | <u>CITY</u> | <u>STATE</u> | <u>AIRPORT ELEVATION</u> | <u>FACILITY</u> |
|-------------------|-----------------------|-----------------|-------------|--------------|--------------------------|-----------------|
| CAD | RNAV (GPS) RWY 25 | 1 | CADILLAC | MI | 1307 | RNAV |

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM TVC VOR/DME **TO** FUNWI

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |
|------------|-----------------|------------|------------|------------|-------------|
| 1.00 | 18.34 | | | | |

| <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> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| AAO | 442621.00N/0851412.00W | 1618 | 215 | 8 | 4B | 1000 | | | | AT382 | 3000 |
| TERRAIN | 442727.00N/0851500.00W | 1292 (1300) | | | | | | | | AS1500 | 2800 |

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM MBL DME **TO** FUNWI

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | <u>HAT</u> | <u>HMAS</u> |
|------------|-----------------|------------|------------|------------|-------------|
| 1.00 | 45.15 | | | | |

| <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> |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|-----------|-------------|--------------------|----------------|
| AAO | 442157.00N/0854048.00W | 1897 | 215 | 8 | 4B | 1000 | | | | | 2900 |
| TERRAIN | 442157.00N/0854048.00W | 1696 (1700) | | | | | | | | AS1500 | 3200 |

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM

FUNWI

TO

TEVUY

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | | | <u>HAT</u> | <u>HMAS</u> | | | | |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| 1.00 | 6.90 | | | | | | | | | | |
| <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> |
| AAO | 442600.00N/0851021.00W | 1716 | 215 | 8 | 4B | 1000 | | | | | 2800 |
| TERRAIN | 442600.00N/0851021.00W | 1515 (1500) | | | | | | | | AS1500 | 3000 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

USOYU

TO

TEVUY

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | | | <u>HAT</u> | <u>HMAS</u> | | | | |
|--------------------|------------------------|-----------------|-------------|-------------|-----------|------------|-------------|-----------|-------------|--------------------|----------------|
| 1.00 | 6.90 | | | | | | | | | | |
| <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> |
| AAO | 442127.00N/0850957.00W | 1710 | 215 | 8 | 4B | 1000 | | | | | 2800 |
| TERRAIN | 442127.00N/0850957.00W | 1509 (1500) | | | | | | | | AS1500 | 3000 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE

FROM

TEVUY (IF/IAF)

TO

JERRO

RNP

1.00

DISTANCE

6.03

PAT

MAP

HAT

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|-------------|------|------|----|-----|-----|----|------|-------------|---------|
| AAO | 442127.00N/0850957.00W | 1710 | 215 | 8 | 4B | 500 | | | | | 2300 |
| TERRAIN | 442151.00N/0851048.00W | 1482 (1500) | | | | | | | | AS1500 | 3000 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

JERRO

TO

RW25

RNP

0.30

DISTANCE

5.20

PAT

MAP

DA

HAT

250

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|------------------|------------------------|----------|------|------|----|-----|---------|----|------|-------------|---------|
| TREE (26-033936) | 441648.03N/0852425.02W | 1348 | 50 | 20 | 2C | | 34.00:1 | | | | 1555 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV/VNAV

FROM

JERRO

TO

RW25

RNP

0.30

DISTANCE

5.20

PAT

MAP

DA

HAT

495

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|-------------|------------------------|----------|------|------|----|-----|---------|----|------|-------------|---------|
| TREE | 441748.00N/0852321.00W | 1492 | 215 | 8 | 4B | | 23.93:1 | | | AC8 | 1800 |

COMPUTATIONS

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

SEGMENT REMARKS:

CONTROLLING OBS IN SLOPING SURFACE, MINS MATCH LNAV MINS PER 8260.58C 3-3-5.

FINAL: LNAV

FROM

JERRO

TO

RW25

RNP

0.30

DISTANCE

5.20

PAT

MAP

RW25

HAT

495

HMAS

| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
|------------------|------------------------|----------|------|------|----|-----|-----|----|------|-------------|---------|
| TREE (26-175733) | 441801.71N/0852236.24W | 1545 | 20 | 3 | 1A | 250 | | | | | 1800 |

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

TEVUY

TO

P-5

| <u>RNP</u> | <u>DISTANCE</u> | <u>PAT</u> P-5 | <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> |
| AAO | 442557.00N/0851018.00W | 1723 | 215 | 8 | 4B | 1000 | | | | | 2800 |
| TERRAIN | 442557.00N/0851018.00W | 1522 (1522) | | | | | | | | AS1500 | 3000 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LPV

FROM

DA

TO

WIKAP

| <u>RNP</u> 0.30-1.00 | <u>DISTANCE</u> | <u>PAT</u> | <u>MAP</u> | | | | <u>HAT</u> | <u>HMAS</u> 1365 | | | |
|-------------------------|------------------------|-----------------|-------------|-------------|-----------|------------|------------|---------------------|-------------|--------------------|----------------|
| <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> |
| | | | | | | | ASC | | | | 3600 |
| TOWER (26-002421) | 441316.00N/0853651.00W | 1710 | 500 | 125 | 5E | 1000 | | | | | 2800 |
| TERRAIN | 441406.00N/0853933.00W | 1479 (1500) | | | | | | | | AS1500 | 3000 |

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

WIKAP

| <div><div>RNP</div><div>0.30-1.00</div></div> | <div>DISTANCE</div> | <div>PAT</div> | <div>MAP</div> | | <div>HAT</div> | | <div>HMAS</div> <div>1639</div> | | | | |
|---|------------------------|----------------|----------------|------|----------------|------|---------------------------------|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| | | | | | | | ASC | | | | 3600 |
| TOWER (26-002421) | 441316.00N/0853651.00W | 1710 | 500 | 125 | 5E | 1000 | | | | | 2800 |
| TERRAIN | 441406.00N/0853933.00W | 1479 (1500) | | | | | | | | AS1500 | 3000 |

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW25

TO

WIKAP

| <div><div>RNP</div><div>0.30-1.00</div></div> | <div>DISTANCE</div> | <div>PAT</div> | <div>MAP</div> | | <div>HAT</div> | | <div>HMAS</div> <div>1700</div> | | | | |
|---|------------------------|----------------|----------------|------|----------------|------|---------------------------------|----|------|-------------|---------|
| OBSTRUCTION | COORDINATES | ELEV MSL | HORZ | VERT | AC | ROC | OCS | CG | CGTA | ADJUSTMENTS | MIN ALT |
| | | | | | | | ASC | | | | 3600 |
| TOWER (26-002421) | 441316.00N/0853651.00W | 1710 | 500 | 125 | 5E | 1000 | | | | | 2800 |
| TERRAIN | 441406.00N/0853933.00W | 1479 (1500) | | | | | | | | AS1500 | 3000 |

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 | 441539.00N/0852345.00W | 1.31 | 513 | 1508 | 215 | 8 | 4B | 300 | | | 1820 |
| CATEGORY B | | | | | | | | | | | |
| WATER_TOWER (26-041622) | 441525.70N/0852344.09W | 1.85 | 533 | 1528 | 50 | 20 | 2C | 300 | | | 1840 |
| CATEGORY C | | | | | | | | | | | |
| VERTICAL_STRUCTURE (26-033734) | 441627.72N/0852826.26W | 2.91 | 553 | 1554 | 50 | 20 | 2C | 300 | | | 1860 |
| CATEGORY D | | | | | | | | | | | |
| TOWER (26-000359) | 441317.00N/0852406.00W | 3.81 | 753 | 1759 | 50 | 20 | 2C | 300 | | | 2060 |

CIRCLING REMARKS:

MSA

CENTER
RW25

RADIUS
25

| SECTOR | OBSTRUCTION | COORDINATES | BEARING | DISTANCE | ELEV MSL | HORZ | VERT | AC | ROC | OCS | ADJUSTMENTS | MIN ALT |
|---------|-------------------|------------------------|---------|----------|----------|------|------|----|------|-----|-------------|---------|
| 360-360 | TOWER (26-000202) | 440812.00N/0852033.00W | 164 | 9.0 | 2999 | 250 | 50 | 4D | 1000 | | | 4000 |

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZMP ARTCC, LAN FSS

| WX SERVICE | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
|--------------------|----------|---------------|------------------|----------|-------|-------------|
| AWOS-3P | CAD | 24 | CAD | 0.20 | Y | 0 |
| BACK-UP WX SERVICE | LOCATION | HRS OPERATION | ALTIMETER SOURCE | DISTANCE | WMSCR | ADJUSTMENTS |
| ASOS | HTL | 24 | HTL | 32.48 | Y | 97 |

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
CAD 1307, HTL 1149
RA = 96.8.

| PRIMARY NAVAID | MONITOR POINT | HRS OPERATION | CAT |
|---|---------------|-----------------|---------------------|
| APPROACH AND RUNWAY LIGHTING SYSTEM | | RUNWAY MARKINGS | RUNWAY VISUAL RANGE |
| RW18 | | | |
| RW36 | | | |
| RW07 - MALSF (PCL), REIL (PCL), HIRL (PCL), VASI-4L (PCL) | | PIR-G | |
| RW25 - REIL (PCL), HIRL (PCL), PAPI-4L (PCL) | | PIR-G | |

| GLIDESLOPE ANGLE | ELEV RWY THRESHOLD | TCH | ELEV GS ANTENNA | DISTANCE FROM RWY | VGSI ANGLE | TCH |
|------------------|--------------------|------|-----------------|-------------------|------------|------|
| 3.00 | 1297.9 | 45.0 | | | 3.00 | 56.0 |

FINAL APPROACH COURSE AIMING

| | | | |
|------------------|-------------------------------------|--------------------|------------------------------|
| RUNWAY THRESHOLD | <input checked="" type="checkbox"/> | FT FROM THRESHOLD | DISPLACED THRESHOLD DISTANCE |
| ON CENTERLINE | <input checked="" type="checkbox"/> | FT FROM CENTERLINE | |

CRITICAL TEMPERATURES

| CRITICAL LOW | CRITICAL HIGH | ACT | APT ISA |
|--------------|---------------|------|---------|
| -22C | +54C | -22C | +12.41C |

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2019-2023).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 972 HIGH TEMP 1283.

"VISUAL PORTION OF FINAL" PENETRATIONS

| FINAL TYPE | LPV, LNAV/VNAV, AND LNAV | | |
|---|--------------------------|---|--|
| 34:1 | | | |
| 1348 TREE (26-033936) 441648.0300N/0852425.0200W (3.78) | | 1346 TREE (26-029651) 441647.4800N/0852425.1200W (2.63) | |
| 1344 TREE (26-033937) 441646.9800N/0852425.0900W (1.17) | | 1326 TREE (26-176144) 441646.4700N/0852433.4200W (0.11) | |

QUALITY
25
CHECKED

PENETRATIONS REMARKS:

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.

CONTINGENCY NOTES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HTL ALTIMETER SETTING AND INCREASE LPV DA TO 1652 FEET AND ALL VISIBILITIES 1/4 SM; INCREASE LNAV/VNAV DA TO 1897 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE ALL MDAS 100 FEET AND LNAV VISIBILITY CATS C AND D 3/8 SM, AND CIRCLING VISIBILITY CAT C AND D 1/4 SM.

BARO-VNAV AND VDP NA WHEN USING HTL ALTIMETER SETTING.

100 FT VEGETATION PER FPT.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1656 TOWER (26-001840) 441754.68N/0851714.25W.

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 | 3.63 |
| WIDTH OF | FINAL | SEGMENT AT 1000FT POINT | 1.20 |
| TRUE COURSE OF | FINAL | SEGMENT CONTAINING 1000FT POINT | 246.44 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1000FT POINT | 1500 |
| DISTANCE FROM | THLD | TO 1500FT POINT | 5.20 |
| WIDTH OF | FINAL | SEGMENT AT 1500FT POINT | 2.13 |
| TRUE COURSE OF | FINAL | SEGMENT CONTAINING 1500FT POINT | 246.44 |
| HIGH TERRAIN IN | FINAL | SEGMENT CONTAINING 1500FT POINT | 1500 |

| | |
|--|---------------------------------|
| THRESHOLD COORDINATES (IF STR-IN) | 441642.17N/0852448.08W |
| ARP COORDINATES | 441631.25N/0852508.20W |
| RUNWAY APCH END AND DIST FURTHEST FROM ARP | |
| FAF COORDINATES | 441847.15N/0851809.73W |
| FIX NAME COORDINATES | IF TEVUY 442111.46N/0851027.80W |

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

PART E: PREPARED BY

| | | | |
|---------------------------------------|----------|------------|-------------------------------------|
| NAME | OFFICE | DATE | TITLE |
| ROBERT G HAMILTON (DANIEL R. JOHNSON) | AJV-A433 | 04/17/2025 | AERONAUTICAL INFORMATION SPECIALIST |

AIRPORT ID
CAD

PROCEDURE NAME
RNAV (GPS) RWY 25

AMDT NO.
1

CITY
CADILLAC

STATE
MI

AIRPORT ELEVATION
1307

FACILITY
RNAV

