

**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</u> CAPITAL REGION INTL | <u>AIRPORT ID</u> KLAN | <u>PROCEDURE NAME</u> RNAV (GPS) RWY 6 | <u>ORIGINAL/AMENDMENT</u> 1 | <u>CITY</u> LANSING | <u>STATE</u> MI |
| <u>AIRPORT ELEVATION</u> 861 | <u>TDZE</u> 859 | <u>SUPERSEDED</u> RNAV (GPS) RWY 6 | <u>ORIGINAL/AMENDMENT</u> ORIG | <u>DATED</u> 07/29/2010 | <u>MAG VAR</u> 5W |
| <u>FACILITY</u> RNAV | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> 25 FEBRUARY 2021 | <u>REQUIRED EFFECTIVE DATE</u> ROUTINE | <u>CANCEL/SUSPEND</u> | <u>EPOCH YEAR</u> 1985 |

TAA THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 21-03.

| FROM | FIX TYPE | TO | FIX TYPE | ALTITUDE |
|---------------------|----------|-------|----------|----------|
| 1. 328/30 CW 148/30 | NOPT | EGUTY | IF/IAF | 3000 |
| 2. 148/30 CW 238/30 | | HOYTV | IAF | 3000 |
| 3. 238/30 CW 328/30 | | BOODY | IAF | 3000 |

TERMINAL ROUTES

| FROM | FIX TYPE | TO | FIX TYPE | LEG TYPE | FO/FB | RNP | COURSE | DISTANCE | ALTITUDE |
|-----------------------|----------|-----------------------|----------|----------|-------|------|--------|----------|----------|
| HOYTV | IAF | EGUTY | NOPT | TF | FB | 1.00 | 147.84 | 7.00 | 3000 |
| BOODY | IAF | EGUTY | NOPT | TF | FB | 1.00 | 327.96 | 7.00 | 3000 |
| EGUTY | IF/IAF | STJOE | | TF | FB | 1.00 | 057.90 | 6.23 | 2100 |
| STJOE | FAF | LEKPE/1.92 NM TO RW06 | | TF | FB | 0.30 | 057.98 | 1.85 | |
| LEKPE/1.92 NM TO RW06 | | RW06 | MAP | TF | FO | 0.30 | 057.98 | 1.92 | |
| RW06 | MAP | 1109 MSL | | CA | | | 057.98 | | |
| 1109 MSL | | FETUM | | DF | FO | 1.00 | | | 3000 |

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW06

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT FETUM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
48
CHECKED

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW EGUTY, RT, 057.90 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 057.98 FAF: STJOE DIST FAF TO MAP: 3.77 DIST FAF TO THLD: 3.77
4. MIN ALT: EGUTY 3000, STJOE 2100, LEKPE/1.92 NM TO RW06 1500*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.66 GS ANT: MM: IM:
6. MIN GP INCPT: 2100 GP ALT AT FAF : STJOE 2100 OM:
7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 40.0
8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 10L, 28R NA AT NIGHT.
CHART NOTE: RWY 6 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:

CHART CIRCLING ICON.
CHART VDP AT 1.01 NM TO RW06*
*LNAV ONLY
WAAS CHANNEL #82118
REFERENCE PATH ID: W06A
CHART FAS OBST: 969 TREE 424512N/0843716W.
CHART: 975 TREE 424451N/0843804W.
1089 AAO 424404N/0843922W.
HOLD NE, RT, 238.17 INBOUND
LTP HAE: 228.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 900-3

| 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 | 1109 | 3/4 | 250 | 1109 | 3/4 | 250 | 1109 | 3/4 | 250 | 1109 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 1260 | 1 1/8 | 401 | 1260 | 1 1/8 | 401 | 1260 | 1 1/8 | 401 | 1260 | 1 1/8 | 401 | | | |
| LNAV MDA | 1220 | 1 | 361 | 1220 | 1 | 361 | 1220 | 1 | 361 | 1220 | 1 | 361 | | | |
| CIRCLING | 1320 | 1 | 459 | 1380 | 1 | 519 | 1600 | 2 | 739 | 1760 | 3 | 899 | | | |

QUALITY
48
CHECKED

CHANGES - REASONS

1. REMOVED 15NM STEPDOWN FROM RIGHT BASE TAA SECTOR. - NEW EVALUATION COMPLETED WITH NEW CONTROLLING OBSTACLE.
2. ADDED MAX 6000 ALT TO LINE 2 IN PROFILE. - IAW 8260.19H 8-6-7 B. (2).
3. TERMINAL ROUTES COURSE/DISTANCE CHANGED FOR IAF HOYTV - EGUTY AND IAF BOODY - EGUTY FROM 147.85/5.00 AND 327.95/5.00 NM TO 147.84/7.00 AND 327.96/7.00 NM. - MOVED HOYTV AND BOODY FIXES TO PROVIDE 90 DEGREE TURN DTA IAW 8260.58A 1-2-5 B.
4. TERMINAL ROUTES DISTANCE CHANGED FOR EGUTY TO STJOE FROM 6.27 TO 6.23. - MOVED STJOE FOR OPTIMAL PFAF LOCATION.
5. ADDED LEKPE STEPDOWN FIX TO FINAL AND LEKPE/1.92 NM TO RW06 1500* TO LINE 4 MIN ALT. - NEW EVALUATION COMPLETE AND YIELDS LOWER MINIMUMS.
6. LINE 2 H-I-L INBOUND COURSE CHANGED FROM 058.02 TO 057.90. - ALIGNED INTERMEDIATE TO PFAF TO AVOID TURNS.
7. LINE 3 FAC CHANGED FROM 057.97 TO 057.98. - MOVED PFAF/STJOE FOR OPTIMAL FINAL DESIGN.
8. ADDED 20:1 IS CLEAR TO LINE 7. - 20:1 PENETRATIONS NO LONGER EXIST.
9. CHANGED DIST TO THLD FROM 282 HAT: 0.76 TO 250 HAT: 0.66 ON LINE 5. - MINIMUMS LOWERED.
10. LINE 3 DIST FAF TO MAP/THLD CHANGED BOTH FROM 3.73 TO 3.77. - MOVED PFAF/STJOE FOR OPTIMAL DESIGN.
11. CHANGED CHART NOTE: FROM "VISIBILITY REDUCTION BY HELICOPTERS NA." TO "RWY 6 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 NOT AUTHORIZED." - REFLECT CURRENT CRITERIA IAW 8260.19H 8-6-11 K. (3).
12. REMOVED THE FAHRENHEIT VALUES FROM AND CHANGED THE TEMPS FROM -16C/46C TO -21C/54C IN THE UNCOMPENSATED BARO-VNAV CHART NOTE. - REFLECT CURRENT CRITERIA IAW 8260.19H 8-6-9 S.
13. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA. - IAW 8260.19H 8-6-10 T AND UPDATED TO NEW CIRCLING CRITERIA.
14. ADDED VDP. - NEW EVALUATION COMPLETED AND 20:1 PENETRATIONS NO LONGER EXIST.
15. ADDED *LNAV ONLY TO ADDITIONAL FLIGHT DATA. - ADDED LNAV STEPDOWN FIX AND VDP.
16. CHANGED FAS OBST FROM 1069 AAO TO 969 TREE. - NEW EVALUATION COMPLETED WITH STEPDOWN FIX.
17. ADDED 1089 AAO AND 975 TREE AS 7:1 OBSTS. - NEW EVALUATION COMPLETED.
18. ADDED CAT D 900-3, NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINIMUMS. - NEW EVALUATION COMPLETED.
19. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. FROM NOTES AND ADDED RNP APCH TO PBN REQUIREMENTS NOTE. - IAW 8260.19H 8-6-8 B (1).
20. LOWERED MINS: LPV FROM 1140/282/1SM TO 1109/250/3/4SM, LNAV/VNAV FROM 1338/480/1 3/4SM TO 1260/401/1 1/8SM, LNAV FROM 1340/482/CAT C 1 1/4SM AND CAT D 1 1/2SM TO 1220/361/CAT C/D 1. - NEW EVALUATION COMPLETED AND NEW CONTROLLING OBSTACLES.
21. CHANGED FAS DATA CRC REMAINDER FROM F4F8B59F TO B0068F2B. - CHANGED LTP LONGITUDE FROM 0843603.7640W TO 0843603.7630W AND FPAP COORDS FROM 424717.0000N/0843427.1000W TO 424716.9995N/0843427.0950W.
22. CHANGED MA HOLD INBOUND COURSE FROM 238.16 TO 238.17 IN ADDITIONAL FLIGHT DATA. - INTERMEDIATE COURSE ON RECIPROCAL APPROACH CHANGED.
23. CIRCLING MINS CHANGED: CAT A FROM 1380/519 TO 1320/459, CAT C FROM 1380/5519/1 1/2 TO 1600/739/2, CAT D 1440/579/2 TO 1760/899/3. - NEW EVALUATION COMPLETED WITH NEW CIRLING CRITERIA.
24. ADDED CHART NOTE: CIRCLING RWY 10L, 28R NA AT NIGHT. - REQUIRED BY FLIGHT INSPECTION RESULTS.
25. REMOVED CHART: ASR FROM ADDITIONAL FLIGHT DATA. - NO LONGER REQUIRED AS RADAR PROCEDURES ARE BEING CANCELED.

8260-9 CHANGES: 10/19/2020: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/18/20:

1. CHANGED BOODY-EGUTY IAF AND H-I-L CONTROLLING OBSTACLE FROM 1367 TOWER (26-000910) TO 1280 TOWER (26-001351) IAW FLIGHT CHECK RESULTS (10/10/20).
2. CHANGED HOYTV-EGUTY IAF AND INTERMEDIATE CONTROLLING OBSTACLE FROM 1367 TOWER (26-000910) TO 1273 TOWER (26-001686) IAW FLIGHT CHECK RESULTS (10/10/20).
3. ADJUSTED OBSTACLE NUMBERING TO REFLECT ABOVE CHANGES.

12/17/20: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/20/20.

1. ADDED "SM" TO HELICOPTER VISIBILITY REDUCTION NOTE.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOB, LAN APPCON, LAN ATCT, AMGR

Digitally signed by

FLIGHT CHECKED BY
GREGORY SCOTT WIEBE

JOHN BORDY
Dec 17, 2020

OFFICE
FIOG

DATE
10/10/2020

Digitally signed by

DEVELOPED BY
JOHN BORDY (ANDRE TUCKER)

JOHN BORDY
Dec 17, 2020

OFFICE
AJV-A422

DATE
03/18/2020

Digitally signed by

APPROVED BY
MARLON ROBINSON

JOHN BORDY
Dec 17, 2020

OFFICE
AJV-A420

DATE

TITLE
MANAGER

QUALITY
48
CHECKED

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KLAN |
| RUNWAY | RW06 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W06A |
| LTP/FTP LATITUDE | 424623.4020N |
| LTP/FTP LONGITUDE | 0843603.7630W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +02281 |
| FPAP LATITUDE | 424716.9995N |
| FPAP LONGITUDE | 0843427.0950W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00040.0 |
| 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 | B0068F2B |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K5 |
| LTP ORTHOMETRIC HEIGHT | +02617 |
| FPAP ORTHOMETRIC HEIGHT | +02617 |

