

**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> APN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> ALPENA	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 690	<u>TDZE</u> 685	<u>SUPERSEDED</u> RNAV (GPS) RWY 1	<u>DATED</u> 08/13/2020	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
RABBO		HOLKI		TF	FB	1.00	157.45	32.62	3000
SPARR		HOLKI		TF	FB	1.00	114.99	33.19	3100
WHOOB	IAF	JEGOB	NOPT	TF	FB	1.00	025.57	34.77	3000
HOLKI	IAF	JEGOB	NOPT	TF	FB	1.00	096.44	5.00	2800
JEGOB	IF/IAF	ONSOE		TF	FB	1.00	006.80	6.00	2800
ONSOE	FAF	RW01	MAP	TF	FO	0.30	006.80	6.37	
RW01	MAP	974 MSL		CA			006.80		
974 MSL		HIMVO		DF	FB	1.00			
HIMVO		RABBO		TF	FO	1.00	307.05	24.10	3500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT HIMVO AND ON TRACK 307.05 TO RABBO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD S JEGOB, RT, 006.80 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 006.80 **FAF:** ONSOE **DIST FAF TO MAP:** 6.37 **DIST FAF TO THLD:** 6.37
4. **MIN ALT:** JEGOB 2800, ONSOE 2800
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **289 HAT:** 0.75 **GS ANT:**
6. **MIN GP INCPT:** 2800 **GP ALT AT PFAF:** ONSOE 2800 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 52.3
8. **MSA FROM:** RW01 3500



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PZQ ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RABBO ON V78 NORTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WHOOP ON V45 SOUTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SPARR ON V420 WESTBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 3/8 SM.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PZQ ALTIMETER SETTING AND INCREASE LPV DA TO 1029 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1084 FEET; INCREASE ALL MDAS 60 FEET.
CHART NOTE: FOR INOPERATIVE ALS WHEN USING PZQ ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART: PIKEWEST MOA

HOLD NW, RT, 132.46 INBOUND.
CHART FAS OBST: 890 TREE 450018N/0833435W.
CHART VDP AT 1.33 NM TO RW01.
WAAS CHANNEL # 50310
REFERENCE PATH ID: W01A
CHART CIRCLING ICON.
LTP HAE: 171.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	974	1/2	289	974	1/2	289	974	1/2	289	974	1/2	289			
LNAV/VNAV DA	1029	5/8	344	1029	5/8	344	1029	5/8	344	1029	5/8	344			
LNAV MDA	1160	1/2	475	1160	1/2	475	1160	1	475	1160	1	475			
CIRCLING	1160	1	470	1160	1	470	1220	1 1/2	530	1300	2	610			



CHANGES - REASONS

1. INCORPORATED PNOTAMS FOR AMDT ORIG-A, ORIG-B, ORIG-C AND ORIG-D.
2. ALTERNATE MINS: DELETED "NA WHEN LOCAL WEATHER NOT AVAILABLE" – NO BACK UP ALTIMETER REQUIRED, 8260.19I 8-6-11 MEMO
3. PROFILE LINE 2: ADDED "MAX 6000" TO HOLD IN LIEU DATA – 8260.19I 8-6-7B(2).
4. PROFILE LINE 5: CHANGED DISTANCE TO THLD FROM 200 HAT: 0.47 TO 289 HAT: 0.75 NM – 8260.19I 8-6-7E(4) AND INCREASED HAT DUE TO NEW CNTL OBST FROM AMDT ORIG-A.
5. PBN EQUIPMENT NOTE: CHANGED "RNP APCH" TO "RNP APCH-GPS" – 8260.19I 8-6-8B(2)
6. NOTES: DELETED ALL BACK-UP ALTIMETER NOTES - NO BACK-UP WEATHER SOURCE REQUIRED, KAPN HAS NWS AS BACK-UP.
7. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 48°C" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C – UPDATED TARGETS CALCULATIONS.
8. CHANGED CHART NOTE FROM "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 1" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM, LNAV/VNAV ALL CATS VISIBILITY TO 1 SM AND LNAV CATS C/D VISIBILITY TO 1 3/8 SM" - 8260.3E TABLE 3-3-1.
9. ADDITIONAL FLIGHT DATA: DELETED 761 TREE 450314N/0833352W – ONLY NONPRECISION CONTROLLING OBST IS PUBLISHED IAW 8260.19I 8-6-10C.
10. CHANGED LNAV/VNAV VIS FROM 3/4 TO 5/8 ALL CATS – 8260.3E TABLE 3-3-1.
11. CHANGED LNAV CAT C VIS FROM 3/4 TO 1 -- 8260.3E TABLE 3-3-1.
12. FAS DATA: VAL CHANGED FROM 35 TO 50 -- LPV HAT IS 250 OR GREATER IAW 8260.19I APPENDIX K4X.
13. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01716 TO +01717 – AIRNAV DATA.
14. FAS DATA: LTP/FPT COORDS CHANGED FROM 450353.7800N/0833340.9400W TO 450353.7875N/0833340.9250W – UPDATED SURVEY.
15. FAS DATA: FPAP CHANGED FROM 450522.8300N/0833341.3800W TO 450522.8760/0833341.3650W – NEW TARGETS CALCULATION BASED ON LTP/FTP CHANGE.
16. CRC REMAINDER CHANGED FROM 0500BCCB TO 5FB8FE09 – FAS DATA CHANGES.
17. SPLIT CHART NOTE: PROCEDURE NA FOR ARRIVALS AT WHOOP ON V45 SOUTHBOUND, AND ARRIVALS AT SPARR ON V420 WESTBOUND, AND ARRIVALS AT RABBO ON V78 NORTHWEST BOUND INTO 3 SEPARATE NOTES - 8260.19J IMPLEMENTATION MEMO 290 ATTCH 4 PARA 7.

- 07/25/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/15/23.
1. ADDED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PZQ ALTIMETER SETTING AND INCREASE LPV DA TO 1029 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE LNAV/VNAV DA TO 1084 FEET; INCREASE ALL MDAS 60 FEET - BACK-UP WX SOURCE ADDED.
2. ADDED CHART NOTE: BARO-VNAV AND VDP NA WHEN USING PZQ ALTIMETER SETTING - BACK-UP WX SOURCE ADDED.
3. CHANGED CIRCLING CAT D MDA/HAA FROM 1280/590 TO 1300/610 - APPLIED UPDATED AAO TO MATCH ORIG RNAV PROCEDURES FOR RWY 7/25 IN DEVELOPMENT FOR THE SAME CHART CYCLE.
4. ADDED CHART NOTE: FOR INOPERATIVE ALS WHEN USING PZQ ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY TO 1 SM - BACK-UP WX SOURCE ADDED.

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZMP, APN APP CON, APT MGR

FLIGHT CHECKED BY

MICHAEL A GREENWOOD

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJF

DATE

11/01/2024

DEVELOPED BY

ALLAN WILL (STEVEN SCHUTRUM)

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJV-A423

DATE

04/25/2024

APPROVED BY

ALLAN WILL

Digitally signed by

ALLAN WILL

Nov 05, 2024

OFFICE

AJV-A423

DATE

09/05/2024

TITLE

MANAGER



FPAP ORTHOMETRIC HEIGHT

+02081



**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>
APN	RNAV (GPS) RWY 1	ORIG-E	ALPENA	MI	690	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
RABBO

TO
HOLKI

RNP
1.00

DISTANCE
32.62

PAT

MAP

HAT

HMAS

<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>
TOWER (26-002392)	445409.00N/0834615.00W	1438	50	20	2C	1000				AT562	3000
TERRAIN	444733.00N/0834048.00W	1162 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

FEEDER

FROM
SPARR

TO
HOLKI

RNP
1.00

DISTANCE
33.19

PAT

MAP

HAT

HMAS

<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>
TOWER (26-001398)	450100.00N/0842110.00W	2049	500	50	5D	1000				AT51	3100
TERRAIN	445954.00N/0841757.00W	1549 (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

WHOOB

TO

JEGOB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	34.77										
<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>
TOWER (26-001435)	445125.00N/0833234.00W	1649	500	125	5E	1000				AT351	3000
TERRAIN	443654.00N/0834154.00W	1185 (1200)								AC1500	2700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

HOLKI

TO

JEGOB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>					<u>HMAS</u>	
1.00	5.00										
<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>
TOWER (26-001435)	445125.00N/0833234.00W	1649	500	125	5E	1000				AT151	2800
TERRAIN	444730.00N/0833234.00W	1060 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

JEGOB (IF/IAF)

TO

ONSOE

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.00				

<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>
TOWER (26-001435)	445125.00N/0833234.00W	1649	500	125	5E	500				AT526 AC125	2800
TERRAIN	445242.00N/0833857.00W	1054 (1100)								AS1500	2600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

ONSOE

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	6.37		DA	289	

<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>
NAVAID (26-094195)	450351.74N/0833344.06W	694	20	2	1A		34:1			XP39	974

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP - MAINTAIN PREVIOUS MINS

FINAL: LNAV/VNAV

FROM

ONSOE

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	6.37		DA	344	

<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>
ANTENNA (26-067004)	450404.16N/0833401.23W	776	20	3	1A	161				XP92	1029

COMPUTATIONS

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

SEGMENT REMARKS:
XP-MAINTAIN PREVIOUS MINS

FINAL: LNAV

FROM

ONSOE

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	6.37		RW01	475	

<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>
TREE	450017.89N/0833435.01W	890	50	20	2C	250				XL19	1160

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

JEGOB

TO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<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>
TOWER (26-001435)	445125.00N/0833234.00W	1649	500	125	5E	1000				AT151	2800
TERRAIN	444427.00N/0833303.00W	1106 (1100)								AS1500	2600

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

RABBO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30-1.00											768
<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				3500
AAO	451633.00N/0840000.00W	1159	250	125	4E	1000					2200
TERRAIN	451603.00N/0835915.00W	921 (900)								AS1500	2400

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

RABBO

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 868				
<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				3500
AAO	451633.00N/0840000.00W	1159	250	125	4E	1000					2200
TERRAIN	451603.00N/0835915.00W	921 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW01

TO

RABBO

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u> 1041				
<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				3500
AAO	451633.00N/0840000.00W	1159	250	125	4E	1000					2200
TERRAIN	451603.00N/0835915.00W	921 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID

APN

PROCEDURE NAME

RNAV (GPS) RWY 1

AMDT NO.

ORIG-E

CITY

ALPENA

STATE

MI

AIRPORT ELEVATION

690

FACILITY

RNAV

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											
ANTENNA (26-060973)	450512.61N/0833406.10W	1.30	470	823	20	3	1A	300		SI	1160
CATEGORY B											
ANTENNA (26-060973)	450512.61N/0833406.10W	1.83	470	823	20	3	1A	300		SI	1160
CATEGORY C											
TOWER (26-129174)	450809.26N/0833437.94W	2.88	530	919	20	3	1A	300			1220
CATEGORY D											
AAO	450118.00N/0833633.00W	3.76	610	981	215	8	4B	300			1300

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW01	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (26-000672)	450817.00N/0840944.00W	287	25.9	2409	250	125	4E	1000			3500

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT ESTABLISHED - ATC REQUEST.

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

APN APP CON, ZMP ARTCC, LAN FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	APN	24	APN	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3	PZQ	24	PZQ	22.46	Y	55

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KAPN 690, KPZQ 670
RA = 54.4.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW07 - REIL (PCL), MIRL (PCL), PAPI-4L		NPI-G	
RW25 - REIL (PCL), MIRL (PCL), PAPI-4L		NPI-G	
RW01 - MALSR (PCL), HIRL (PCL), PAPI-4L		PIR-G	
RW19 - HIRL (PCL), REIL (PCL), PAPI-4L		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	682.9	52.3			3.00	53.5

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-16C	+54C	-16C	+13.63C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 964 HIGH TEMP 1272.

"VISUAL PORTION OF FINAL" PENETRATIONS

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.
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	3.34
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.57
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.8
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	800
DISTANCE FROM	THLD	TO 1500FT POINT	5.37
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.89
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.8
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	800

THRESHOLD COORDINATES (IF STR-IN)	450353.79N/0833340.93W
ARP COORDINATES	450441.10N/0833337.10W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 1 DISTANCE 0.79 NM
FAF COORDINATES	445731.53N/0833339.06W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
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