

**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> 77G	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 28	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MARLETTE	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 895	<u>TDZE</u> 881	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1C	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 24 MARCH 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 188/30 CW 008/30	NOPT	UYULU	IF/IAF	2700
2. 008/30 CW 188/30		UYULU	IF/IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UYULU	IF/IAF	OXWUP		TF	FB	1.00	277.66	6.05	2500
OXWUP	FAF	RW28	MAP	TF	FO	0.30	277.57	4.95	
RW28	MAP	1199 MSL		CA			277.57		
1199 MSL		QAJJU		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT QAJJU AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
16
CHECKED

CHANGES - REASONS

1. UPDATED LNAV HMAS FROM 1192 TO 1172 - NEW CONTROLLER.
2. ADDED LNAV/VNAV AND LPV LINES OF MINIMA - FPT REQUEST.
3. UPDATED CHART NOTE FROM "RWY 27 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - RUNWAY RENUMBERING.
4. REMOVED NOTE 20:1 IS NOT CLEAR AND ADDED 20:1 IS CLEAR - PENETRATIONS REMOVED.
5. REMOVED CHART NOTE PROCEDURE NA AT NIGHT - 20:1S REMOVED.
6. UPDATED PBN REQUIRMENTS NOTE FROM RNP APCH TO RNP APCH- GPS - 8260.19I.
7. ADDED CHART NOTE BARO-VNAV NA - 8260.19I 8-6-9.
8. ADDED BACK UP WEATHER NOTE CHART NOTE USE CARO ALTIMETER SETTING, WHEN NOT RECIEVED, USE BAD AXE ALTIMETER SETTING AND INCREASE LPV DA TO 1216 FEET; INCREASE LNAV/VNAV DA TO 1279 FEET; INCREASE ALL MDAS 20 FEET AND CIRCLING VISIBILITY CAT D 1/4 SM- BACK UP WEATHER AVAILABLE.
9. UPDATED CIRCLING CATS A-C MDA FROM 1460 TO 1420 - NEW CONTROLLER.
10. UPDATED RUNWAY NUMBER FROM 27 TO 28 - RUNWAY RENUMBERING.
11. UPDATED DISTANCE FROM UYULU TO OXWUP FROM 6.04 TO 6.05 - TCH CHANGE.
12. UPDATED DISTANCE FROM OXWUP TO RW28 FROM 4.96 TO 4.95 - TCH CHANGE.
13. UPDATED DIST FROM FAF TO MAP AND DIST FAF TO THLD FROM 4.96 TO 4.95 - TCH CHANGE.
14. ADDED CHART NOTE: CIRCLING RWY 10, 19 NA AT NIGHT - 8260.19I 8-6-11.
15. REMOVED PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - NOW COINCIDENT.
16. ADDED FAS DATA TO PROCEDURE - LPV MINIMUMS ADDED.

COORDINATED WITH:

A4A ☐
ALPA ☒
AOPA ☒
APA ☐
HAI ☐
NBAA ☒
OTHER: ZOB ARTCC, AMGR, MICHIGAN AERONAUTICS COMMISSION

FLIGHT CHECKED BY

JAMES ONIEAL

Digitally signed by
DAVID TEFFETELLER

Feb 11, 2022

OFFICE

FPO

DATE

02/09/2022

DEVELOPED BY

CASEY HILL

Digitally signed by

CASEY D HILL

Dec 02, 2021

OFFICE

AJV-A432

DATE

10/22/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by

DAVID TEFFETELLER

Feb 11, 2022

OFFICE

AJV-A430

DATE

TITLE
 MANAGER

QUALITY
 16
 CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	77G
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	431837.2755N
LTP/FTP LONGITUDE	0830459.3555W
LTP/FTP ELLIPSOIDAL HEIGHT	+02337
FPAP LATITUDE	431836.4670N
FPAP LONGITUDE	0830701.3870W
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	1592
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	EAF3E7EB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02680
FPAP ORTHOMETRIC HEIGHT	+02680

