

**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> CAMBRIDGE MUNI	<u>AIRPORT ID</u> KCBG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>CITY</u> CAMBRIDGE	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 945	<u>TDZE</u> 945	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 07/18/2019	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2010

**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>
LENCK		ZUBIS		TF	FO	1.00	304.23	25.28	3000
DOCKN		ZUBIS		TF	FO	1.00	005.33	16.82	3000
GOLLF	IAF	ZUBIS	NOPT	TF	FB	1.00	091.87	14.85	3000
CIVOL	IAF	ZUBIS	NOPT	TF	FB	1.00	136.80	3.90	3000
ZUBIS	IF/IAF	WERAM		TF	FB	1.00	161.46	6.12	2600
WERAM	FAF	JINEM/1.70 NM TO RW16		TF	FB	0.30	161.49	3.38	
JINEM/1.70 NM TO RW16		RW16	MAP	TF	FO	0.30	161.49	1.70	
RW16	MAP	1320 MSL		CA			161.49		
1320 MSL		NODKE		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LNAV: RW16

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT NODKE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT      SIDE OF COURSE      OUTBOUND      FT WITHIN      MILES OF (IAF)
2. HOLD N ZUBIS, RT, 161.46 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 161.49      FAF: WERAM      DIST FAF TO MAP: 5.08      DIST FAF TO THLD: 5.08
4. MIN ALT:      ZUBIS 3000, WERAM 2600, JINEM/1.70 NM TO RW16 1520
5. DIST TO THLD FROM OM:      MM:      IM:      150 HAT:      GS ANT:      OM:      MM:      IM:
6. MIN GP INCPT:      GP ALT AT FAF :
7. GP ANGLE:      34:1: IS NOT CLEAR      20:1: IS CLEAR      TCH:
8. MSA FROM: RW16 3500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LENCK ON V505 NORTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GOLLF ON T383 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

WERAM TO RW16: 3.00/40.  
CHART VDP AT 1.07 NM TO RW16  
CHART FAS OBST: 1069 TREE 453342N/0931623W.  
HOLD S, RT, 341.58 INBOUND

MINIMUMS:

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

ALTERNATE: NA    ☐    STANDARD - 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
LNAV MDA	1320	1	375	1320	1	375	1320	1	375		NA				



CHANGES - REASONS

1. REMOVED LPV AND LNAV/VNAV LINES OF MINIMA - EVALUATION PROVIDED NUMEROUS VERTICAL GUIDANCE SURFACE PENETRATIONS, PRECISION APPROACH WOULD REQUIRE GPA ADJUSTMENT IAW 8260.3D SEC 2-6-6.
2. REMOVED "BARO-VNAV NA WHEN USING PRINCETON ALTIMETER SETTING" - PROCEDURE LNAV ONLY, LPV AND LNAV/VNAV REMOVED.
3. REMOVED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C" - PROCEDURE LNAV ONLY, LPV AND LNAV/VNAV REMOVED.
4. ADDED CHART VDP: 1.07 TO RWY 16 - VDP PUBLISHABLE, NO 20:1 PENETRATIONS, TARGETS EVALUATION.
5. PROFILE SECTION, LINE 2, ADDED ZUBIS MAX HOLDING ALTITUDE OF 6000 - NEW REPORT FORMAT CHANGE TO DOCUMENTATION.
6. CHANGED CA FROM 1220 TO 1320 - NEW EVALUATION, LPV AND LNAV/VNAV REMOVED AND LNAV MINIMUM IAP CA LEG ALTITUDE.
7. ADDED "20:1 IS CLEAR" TO LINE 7 - NO 20:1 PENETRATIONS, NEW EVALUATION.
8. REMOVED BACKUP ALTIMETER SETTING NOTES - ADDED TO THE 8260-9 FOR CONTINGENCY PURPOSES.
9. CHANGED PROCEDURE ENTRY RESTRICTION NOTES FROM "PROCEDURE NA FOR ARRIVALS AT GOLLF ON V82-161 NORTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT GOLLF ON T383 NORTHBOUND" - GOLLF FIX LOCATED ON T383 AIRWAY.
10. ADDED ADDITIONAL FLIGHT DATA NOTE "WERAM TO RW16: 3.00/40" - IAW 8260-19H 8-6-10.
11. REMOVED CHART NOTE: PROCEDURE NA AT NIGHT - TARGETS EVALUATION, NO 20:1 PENETRATIONS.
12. REMOVED FROM ADDITIONAL FLIGHT DATA "WAAS CHANNEL #97428" AND "REFERENCE PATH ID: W16A" - PROCEDURE IS LNAV ONLY, WAAS CHANNEL AND REFERENCE PATH ID NOT APPLICABLE.

COORDINATED WITH:

A4A☐

ALPA☒

AOPA☒

APA☐

HAI☐

NBAA☒

OTHER: ZMP, AMGR.

FLIGHT CHECKED BY

COLIN D HENDERSON

Digitally signed by

JON DENTON

Dec 29, 2020

OFFICE

FICO

DATE

12/22/2020

DEVELOPED BY

WARDELL HENNING (GORDON LEMON)

Digitally signed by

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Dec 29, 2020

OFFICE

AJV-A432

DATE

12/16/2019

APPROVED BY

LONNIE EVERHART

Digitally signed by

JON DENTON

Dec 29, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER

