

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> F35	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> GRAFORD	<u>STATE</u> TX
<u>AIRPORT ELEVATION</u> 1008	<u>TDZE</u> 1008	<u>SUPERSEDED</u> RNAV (GPS) RWY 20	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 01/27/2022
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 19 MARCH 2026	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>MAG VAR</u> 7E
				<u>EPOCH YEAR</u> 1985
				<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>
CIYAL		HIPLA		TF	FB	1.00	063.38	19.20	3500
MQP VORTAC		COSOV		TF	FB	1.00	322.69	20.72	3500
HIPLA	IAF	JAPEP	NOPT	TF	FB	1.00	113.51	7.00	3500
COSOV	IAF	JAPEP	NOPT	TF	FB	1.00	293.65	7.00	3500
MUZZO	IAF	JAPEP	NOPT	TF	FB	1.00	195.09	10.82	3500
JAPEP	IF/IAF	KEHRE		TF	FB	1.00	203.58	7.00	2600
KEHRE	FAF	RW20	MAP	TF	FO	0.30	203.54	3.90	
RW20	MAP	1408 MSL		CA			203.54		
1408 MSL		ZOOOO		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT ZOOOO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT
- SIDE OF COURSE
- OUTBOUND
- FT WITHIN
- MILES OF (IAF)
- HOLD NE JAPEP, RT, 203.58 INBOUND, 3500 IN LIEU OF PT (IAF), MAX 6000.
- FAC: 203.54 FAF: KEHRE DIST FAF TO MAP: 3.90 DIST FAF TO THLD: 3.90
- MIN ALT: JAPEP 3500, KEHRE 2600
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: OM: MM: IM:
- MIN GP INCPT: GP ALT AT FAF:
- GP ANGLE: 34:1 IS NOT CLEAR 20:1 IS NOT CLEAR TCH:
- MSA FROM: RW20 3600



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIYAL ON V16 SOUTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MQP VORTAC AIRWAY RADIALS 330 CW 001 SOUTHBOUND.
CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE MWL ALTIMETER SETTING; WHEN NOT RECEIVED, USE LUD ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT B/C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/2 SM.

ADDITIONAL FLIGHT DATA:

CHART MWL ASOS.
HOLD SW, RT, 023.46 INBOUND.
FAS OBST: 1375 AAO 325851N/0982500W.
KEHRE TO RW20: 3.77/30.00.

MINIMUMS:

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

ALTERNATE: NA ☒

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	1680	1	672	1680	1	672	1680	1 7/8	672		NA				
CIRCLING	1700	1	692	1860	1 1/4	852	1880	2 1/2	872		NA				

CHANGES - REASONS

1. CHANGED FEEDER SEGMENT RNP VALUE FROM 2 TO 1 - IAW 8260.58D TABLE 1-2-1.
2. CHANGED INTERMEDIATE SEGMENT RNP VALUE FROM 0.50 TO 1.00 - IAW 8260.58D TABLE 1-2-1.
3. CHANGED FAF TO MAP (THLD) DIST FROM 4.81 TO 3.90 - IAW 8260.19K 8-6-7 C (3).
4. ADDED "20:1 IS NOT CLEAR" AND "34:1 IS NOT CLEAR" - NO SURVEY.
5. CHANGED NOTE FROM "USE MINERAL WELLS ALTIMETER SETTING; WHEN NOT RECEIVED, USE DECATUR MUNI ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET; INCREASE LNAV CATS B AND C VISIBILITY 1/4 SM AND CIRCLING CAT C VISIBILITY 1/2 SM." TO "USE MWL ALTIMETER SETTING; WHEN NOT RECEIVED, USE LUD ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT B/C 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/2 SM" - IAW 8260.19K 8-6-12 N.
6. CHANGED PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT MQP VORTAC VIA V18 EASTBOUND AND V17-161 SOUTHBOUND" TO "PROCEDURE NA FOR ARRIVALS AT MQP VORTAC AIRWAY RADIALS 330 CW 001 SOUTHBOUND" - IAW 8260.19K 8-2-5 E, UPDATED TO MATCH AIRWAYS PUBLISHED.
7. CHANGED MISSED APPROACH HOLD ALTITUDE FROM 3200 TO 3500 - 3200 IS BELOW MVA 3300, ATC REQUEST.
8. ADDED "CHART MWL ASOS" - IAW 8260.19K 8-2-4 B (3).
9. CHANGED LNAV VISIBILITY CAT C FROM 2 TO 1 7/8 - IAW 8260.3G TABLE 3-3-1.
10. HIPLA TO JAPEP AND COSOV TO JAPEP INITIAL SEGMENT LENGTHS INCREASED FROM 5NM TO 7NM - PER IFP CHECKLIST AND ATC REQUEST.
11. HIPLA TO JAPEP, COSOV TO JAPEP, MUZZO TO JAPEP SEGMENTS AND JAPEP H-I-L ALTITUDE INCREASED FROM 3200 TO 3500 - ATC REQUEST.

- 12/05/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 09/12/25.
1. REMOVED "CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES" FROM ADDITIONAL FLIGHT DATA - PROCEDURE REDESIGNED TO CLEAR OBSTACLES.
 2. ADDED VDA/TCH "KEHRE TO RW20: 3.77/30.00" TO ADDITIONAL FLIGHT DATA.
 3. ADDED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})."



COORDINATED WITH:

A4A☐

ALPA☐

AOPA☒

APA☐

HAI☐

NBAA☒

OTHER: AMGR, ZFW, DFW APP CON

FLIGHT CHECKED BY

JORDAN ROLIH

Digitally signed by

RAKE MCGRAW

Jan 08, 2026

OFFICE

AJF

DATE

01/06/2026

DEVELOPED BY

ARTHUR ULVESTAD

Digitally signed by

RAKE MCGRAW

Jan 08, 2026

OFFICE

AJV-A422

DATE

09/12/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW

Jan 08, 2026

OFFICE

AJV-A422

DATE

TITLE

MANAGER