

**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.

<b><u>AIRPORT</u></b> CLEVELAND MUNI	<b><u>AIRPORT ID</u></b> 6R3	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 16	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-C	<b><u>CITY</u></b> CLEVELAND	<b><u>STATE</u></b> TX
<b><u>AIRPORT ELEVATION</u></b> 150	<b><u>TDZE</u></b> 150	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 16	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-B	<b><u>DATED</u></b> 10/15/2015	<b><u>MAG VAR</u></b> 5E
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 20 JUNE 2019	<b><u>REQUIRED EFFECTIVE DATE</u></b> ROUTINE	<b><u>CANCEL/SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 1995

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
EAKES	IAF	HAWXE		TF	FB	1.00	086.50	11.73	3000
HAWXE	IF	DUUPO		TF	FB	1.00	156.71	5.50	2200
DUUPO	FAF	ANLIC/2.20 NM TO RW16		TF	FB	0.30	156.73	4.07	
ANLIC/2.20 NM TO RW16		RW16	MAP	TF	FO	0.30	156.73	2.20	
RW16	MAP	620 MSL		CA			156.73		620
620 MSL		KENNN		DF	FO	1.00			2000

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW16

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 620 THEN CLIMBING LEFT TURN TO 2000 DIRECT KENNN AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT HAWXE

3. FAC: 156.73

FAF: DUUPO

DIST FAF TO MAP: 6.27

DIST FAF TO THLD: 6.27

4. MIN ALT: HAWXE 3000, DUUPO 2200, ANLIC/2.20 NM TO RW16 900\*

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.62

GS ANT:

6. MIN GP INCPT: 2200

GP ALT AT FAF : DUUPO 2200

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 52.0

8. MSA FROM: RW16 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING TO RWY 34 NA AT NIGHT.  
CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EAKES ON T254 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.06 NM TO RW16\*  
\*LNAV ONLY  
WAAS CHANNEL #65724  
REFERENCE PATH ID: W16A  
CHART FAS OBST: 273 TREE 302234N/0950052W.  
HOLD SE, RT, 294.34 INBOUND  
LTP HAE: 18.3 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	400	1	250	400	1	250	400	1	250		NA				
LNAV/VNAV DA	433	1	283	433	1	283	433	1	283		NA				
LNAV MDA	540	1	390	540	1	390	540	1 1/8	390		NA				
CIRCLING	600	1	450	600	1	450	600	1 1/2	450		NA				





FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	6R3
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	302146.6630N
LTP/FTP LONGITUDE	0950037.8090W
LTP/FTP ELLIPSOIDAL HEIGHT	+00183
FPAP LATITUDE	302021.8400N
FPAP LONGITUDE	0950005.5700W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
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	2BD8D804

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00457
FPAP ORTHOMETRIC HEIGHT	+00457

