

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29

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> KORH	<u>PROCEDURE NAME</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 4E	<u>CITY</u> WORCESTER	<u>STATE</u> MA		
<u>AIRPORT ELEVATION</u> 1009	<u>TDZE</u> 990	<u>SUPERSEDED</u> ILS OR LOC RWY 29	<u>ORIGINAL/AMENDMENT</u> 4D	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 15W	<u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-EKW	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 OCTOBER 2023	<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>
PUT VOR/DME		SPAGS INT/I-EKW 6.41 DME	FAF/IAF				027.14	18.77	2700
GDM VOR/DME		SPAGS INT/I-EKW 6.41 DME	FAF/IAF				155.12	21.99	3500

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 5.21 NM AFTER SPAGS INT/I-EKW 6.41 DME OR AT I-EKW 1.20 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 240 AND ON GDM VOR/DME R-179 TO GRIPE INT/GDM 25.48 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 240 AND ON PUT VOR/DME R-359 TO GRIPE INT/PUT 11.20 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD E SPAGS INT, LT, 288.85 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 5400.
- FAC: 288.85 FAF: SPAGS INT/I-EKW 6.41 DME DIST FAF TO MAP: 5.21 DIST FAF TO THLD: 5.21
- MIN ALT: SPAGS INT/I-EKW 6.41 DME 2700
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 981
- MIN GS INCPT: 2700 GS ALT AT PFAF: SPAGS INT/I-EKW 6.41 DME 2700 OM: MM: IM:
- GS ANGLE: 3.00 34:1: 20:1: TCH: 53.6
- MSA FROM: GDM VOR/DME 060-330 3300, 330-060 4400

QUALITY  
10  
CHECKED

**NOTES:**

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1430 FEET.

ADDITIONAL FLIGHT DATA:

CHART (CFLSR) AT 421528.21N/0714212.73W  
HOLD N, RT, 178.85 INBOUND.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N GRIPE INT/PUT 11.20 DME, RT, 179.00 INBOUND.  
CHART FAS OBST: 1008 TREE 421552N/0715153W.  
CHART VDP AT 2.32 DME.  
DISTANCE VDP TO THLD 1.12 NM.  
CHART IN PLANVIEW: GRIPE INT/PUT 11.20 DME.  
CHART CIRCLING ICON.

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - CAT C, D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE., NA WHEN CONTROL TOWER CLOSED.

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
S-ILS 29	1190	4000	200	1190	4000	200	1190	4000	200	1190	4000	200			
S-LOC 29	1380	5500	390	1380	5500	390	1380	5500	390	1380	5500	390			
CIRCLING	1560	1	551	1740	1	731	2000	3	991	2000	3	991			

CHANGES - REASONS

1. RAISED CIRC CAT B CMDA FROM 1720 TO 1740 - NEW CONTROLLING OBSTACLE
2. CHANGED DISTANCE FROM MAP TO DME ANTENNA FROM 1.25 TO 1.20 - EKW DME ANTENNA MOVED 428 FT
3. CHANGED SPAGS/I-EKW 6.46 DME TO SPAGS/I-EKW 6.41 DME - EKW DME ANTENNA MOVED 428 FT
4. VDP CHANGED FROM 2.13 TO 2.32 AND DISTANCE FROM VDP TO THLD FROM .87 TO 1.12- NEW CALCUALTION
5. CHANGED FAC FROM 288.86 TO 288.85 - NEW CALCULATION
6. REMOVED NOTE: DME REQUIRED - NO LONGER REQUIRED
7. CHANGED NOTE: CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1266 FEET TO CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1430 FEET - CLEARS NOTAM 3/3135
8. DELETED ADDITIONAL FLIGHT DATA NOTE: CHART GOZZR LOM IN HALF-TONE - REMOVED ON PREVIOUS AMENDMENT
9. ADDED CLIMB-IN-HOLD TO THE PRIMARY AND MISSED APPROACH INSTRUCTIONS - MISSED ALTITUDE NOT REACHED BY CLEARANCE LIMIT

COORDINATED WITH:

A4A ☒ ALPA ☐ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZBW, BDL APP CON, ORH ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY  
MICHAEL G CAMPBELL

Digitally signed by  
JASON KRETSCHMER  
Jul 11, 2023

OFFICE  
FPO  
DATE  
07/07/2023

DEVELOPED BY  
ROSE BOONE-WALT  
Digitally signed by  
ROSE BOONE-WALT  
May 12, 2023

OFFICE  
AJV-A421  
DATE  
01/09/2023

APPROVED BY  
JASON KRETSCHMER  
Digitally signed by  
JASON KRETSCHMER  
May 16, 2023

OFFICE  
AJV-A421  
DATE

TITLE  
MANAGER

QUALITY  
10  
CHECKED