

**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> KORD	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 27L	<u>ORIGINAL/AMENDMENT</u> 5	<u>CITY</u> CHICAGO	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 680	<u>TDZE</u> 654	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 27L	<u>ORIGINAL/AMENDMENT</u> 4A	<u>DATED</u> 08/17/2017	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 DECEMBER 2021	<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>
VOGLR	IAF	NRMAH		TF	FB	1.00	280.58	17.29	9000
NRMAH		JOEBO		TF	FB	1.00	273.39	3.14	8000
JOEBO		GRABL		TF	FB	1.00	273.35	3.14	7000
GRABL		RIPPR		TF	FB	1.00	273.30	3.14	6000
RIPPR		BASHH		TF	FB	1.00	273.25	3.14	5000
BASHH	IF	EBENS		TF	FB	1.00	273.21	3.14	4000
EBENS		TAFFS		TF	FB	1.00	273.16	5.95	2200
TAFFS	FAF	RW27L	MAP	TF	FO	0.30	273.07	4.68	
RW27L	MAP	854 MSL		CA			273.07		
854 MSL		WASCO		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW27L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT WASCO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT NRMAH

3. FAF: 273.07

FAF: TAFS

DIST FAF TO MAP: 4.68

DIST FAF TO THLD: 4.68

4. MIN ALT: NRMAH 9000, JOEBO 8000, GRABL 7000, RIPPR 6000, BASHH 5000, EBENS 4000, TAFS 2200

5. DIST TO THLD FROM FAF: 4.68

MM:

IM:

150 HAT:

200 HAT: 0.46

GS ANT:

6. MIN GP INCPT: 2200

GP ALT AT FAF : TAFS 2200

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 58.0

8. MSA FROM: RW27L 3400

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.
RADAR REQUIRED

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 092.68 INBOUND.
FAS OBST: 855 AAO 415921N/0874838W.
CHART VDP AT 1.29 NM TO RW27L.
WAAS CHANNEL # 77804
REFERENCE PATH ID: W27A
LTP HAE: 164.6 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	854	3/4	200	854	3/4	200	854	3/4	200	854	3/4	200			
LNAV/VNAV DA	1088	1 1/4	434	1088	1 1/4	434	1088	1 1/4	434	1088	1 1/4	434			
LNAV MDA	1120	1	466	1120	1	466	1120	1 3/8	466	1120	1 3/8	466			



CHANGES - REASONS

1. UPDATED DISTANCE ON LEG EBENS TO TAFS IN TERMINAL ROUTES FROM "5.89" TO "5.95" - RUNWAY WAS EXTENDED, APCH REALIGNED WITH PENDING ILS.
2. UPDATED DISTANCE ON LEG TAFS TO RW27L IN TERMINAL ROUTES FROM "4.69" TO "4.68" - RUNWAY WAS EXTENDED, APCH REALIGNED WITH PENDING ILS.
3. PROFILE LINE 3 DIST FAF TO MAP/DIST FAF TO THLD CHANGED FROM "4.69/4.69" TO "4.68/4.68" - PFAF, AND THLD/MAP ADJUSTED FOR PENDING APT/ILS DATA FOLLOWING RUNWAY EXTENSION.
4. PROFILE LINE 5 DIST TO THLD FROM 200 HAT UPDATED FROM "0.47" TO "0.46" - APPROACH GEOMETRY CHANGED TO MATCH PENDING ILS.
5. ADDED "DIST TO THLD FROM FAF: 4.68" TO PROFILE LINE 5 - IAW 8260.19I 8-6-7.E.
6. ADDED "20:1 IS CLEAR" TO PROFILE LINE 7 - THERE ARE NO 20:1 PENETRATIONS TO RWY 27L.
7. CHANGED TCH ON PROFILE LINE 7 FROM "55.3" TO "58.0" - DESIGN CHANGE TO MATCH PENDING ILS PER FPT.
8. ADDED PBN REQUIREMENTS NOTE: "RNP APCH - GPS" - IAW 8260.19I 8-6-8.B.(2).
9. CHANGED NOTE FROM "CHART PLANVIEW NOTE: RADAR REQUIRED" TO EQUIPMENT REQUIREMENTS NOTE: "RADAR REQUIRED" - IAW 8260.19I 8-6-9.G, PER ATC REQUEST.
10. REMOVED DME/DME RNP -0.3 NA - NO LONGER REQUIRED.
11. DELETED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET})" - VGSI NOT SCHEDULED TO BE INSTALLED UNTIL 7/2022.
12. CHANGED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (2F) OR ABOVE 54C (130F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C" - REMOVED FAHRENHEIT - IAW 8260.19I 8-6-9.R.
13. REMOVED NOTE "CHART NOTE: FOR INOPERATIVE ALSF, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 MILE" - ALS NO LONGER INSTALLED.
14. UPDATED SIMULTANEOUS OPERATION NOTE FROM "CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS" TO "CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS" - IAW 8260.19I 8-6-11.O.(8)(D).
15. UPDATED VDP NOTE IN ADDITIONAL FLIGHT DATA FROM "CHART VDP AT 1.26 NM TO RW27L*" TO "CHART VDP AT 1.29 NM TO RW27L" - VDP UPDATED WITH NEW APCH DESIGN, "*" NO LONGER REQUIRED.
16. REMOVED "LNAV ONLY" FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
17. UPDATED MA HOLD IN ADDITIONAL FLIGHT DATA FROM "HOLD W, RT, 093.00 INBOUND" TO "HOLD W, RT, 092.68 INBOUND" - UPDATED WITH PENDING APT DATA AND APCH REDESIGN.
18. UPDATED FAS OBSTACLE ELEVATION IN ADDITIONAL FLIGHT DATA FROM "859" TO "855" - RE-ACCOMPLISHED MAP STUDY IAW 8260.19I 2-11-5.B.(3).
19. REMOVED ADDITIONAL FLIGHT DATA NOTE "CHART 817 BLDG 415937N/0875142W" - NO LONGER REQUIRED IAW 8260.19I 8-6-10.C-E.
20. UPDATED LTP HAE IN ADDITIONAL FLIGHT DATA FROM "164.5" TO "164.6" - UPDATED WITH PENDING AIRPORT DATA FOLLOWING RUNWAY EXTENSION.
21. UPDATED LPV VIS FROM "1800" TO "3/4" - RVR SENSORS NO LONGER INSTALLED.
22. UPDATED LNAV/VNAV DA/VIS/HAT FROM "1125/ 6000 /471" TO "1088/ 1 1/4 /434" - NEW CONTROLLING OBSTACLE IN LNAV/VNAV FINAL SEGMENT, RVR SENSORS NO LONGER INSTALLED.
23. UPDATED LNAV CATS A AND B VIS FROM "2400" TO "1" - RVR SENSORS NO LONGER INSTALLED.
24. UPDATED LNAV CATS C AND D VIS FROM "5000" TO "1 3/8" - RVR SENSORS NO LONGER INSTALLED.
25. LTP/FTP LOCATION AND HEIGHT IN FAS DATA FROM "415902.0405N/0875320.5830W, +01645" TO "415902.0415N/0875324.5555W, +01646" - RWY WAS EXTENDED.
26. FPAP LOCATION IN FAS DATA FROM "415902.0225N/0875520.0545W" TO "415902.0170N/0875553.6460W" - RWY WAS EXTENDED, APPROACH ALIGNED WITH PENDING ILS DATA.
27. TCH IN FAS DATA FROM "00055.3" TO "00058.0" - PROCEDURE DESIGNED FOR PENDING ILS DATA, PER FPT.
28. LENGTH OFFSET IN FAS DATA FROM "0320" TO "0000" - PROCEDURE DESIGNED FOR PENDING ILS DATA.
29. CRC REMAINDER CHANGED FROM "48E415BF" TO "8CE036B3" - LTP/FTP AND FPAP LOCATIONS CHANGED DUE TO RUNWAY EXTENSION.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, CHICAGO APP CON, ORD TOWER, AMGR

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by
JASON KRETSCHMER

OFFICE
FPO

DATE
10/19/2021

Digitally signed by Oct 20, 2021

DEVELOPED BY

JASON KRETSCHMER (COLIN CAMPBELL)

JASON KRETSCHMER
Aug 20, 2021

OFFICE
AJV-A421

DATE
07/07/2021

APPROVED BY

MARLON ROBINSON

Digitally signed by
JASON KRETSCHMER
Aug 20, 2021

OFFICE
AJV-A420

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KORD
RUNWAY	RW27L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W27A
LTP/FTP LATITUDE	415902.0415N
LTP/FTP LONGITUDE	0875324.5555W
LTP/FTP ELLIPSOIDAL HEIGHT	+01646
FPAP LATITUDE	415902.0170N
FPAP LONGITUDE	0875553.6460W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 CRC REMAINDER	 8CE036B3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01982
FPAP ORTHOMETRIC HEIGHT	+01982

