

**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> KGCK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> GARDEN CITY	<u>STATE</u> KS		
<u>AIRPORT ELEVATION</u> 2891	<u>TDZE</u> 2885	<u>SUPERSEDED</u> RNAV (GPS) RWY 35	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 10/08/2020	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> 11/3/2022	<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>
GCK VORTAC		PIRIY		TF	FO	1.00	174.95	11.55	4800
BOONS	IAF	PIRIY	NOPT	TF	FB	1.00	036.03	5.38	4800
ZILCH	IAF	PIRIY	NOPT	TF	FB	1.00	278.09	5.72	4800
PIRIY	IF/IAF	PIEVE		TF	FB	1.00	355.42	6.02	4700
PIEVE	FAF	TELIC/2.90 NM TO RW35		TF	FB	0.30	355.42	2.64	
TELIC/2.90 NM TO RW35		RW35	MAP	TF	FO	0.30	355.42	2.90	
RW35	MAP	3085 MSL		CA			355.42		
3085 MSL		WEMDI		DF	FO	1.00			4700

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4700 DIRECT WEMDI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S PIRIY, RT, 355.42 INBOUND, 4800 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 355.42FAF: PIEVEDIST FAF TO MAP: 5.54DIST FAF TO THLD: 5.54

4. MIN ALT: PIRIY 4800, PIEVE 4700, TELIC/2.90 NM TO RW35 3860

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.47GS ANT:

6. MIN GP INCPT: 4700GP ALT AT PFAF : PIEVE 4700OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 59.4

8. MSA FROM: RW35 5000

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV CATS C/D VISIBILITY TO 3/4 SM, AND LNAV CATS C/D VISIBILITY TO 7/8 SM.
CHART PLANVIEW NOTE AT ZILCH: DO NOT EXCEED 230 KIAS UNTIL PIRIY.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 175.42 INBOUND.
CHART FAS OBST: 2919 POLE (20-022592) 375509N/1004331W.
2985 AAO 375157N/1004221W.
CHART VDP AT 0.89 NM TO RW35.
WAAS CHANNEL # 63103
REFERENCE PATH ID: W35A
CHART CIRCLING ICON.
LTP HAE: 851.2 M

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
LPV DA	3085	1/2	200	3085	1/2	200	3085	1/2	200	3085	1/2	200			
LNAV/VNAV DA	3135	1/2	250	3135	1/2	250	3135	1/2	250	3135	1/2	250			
LNAV MDA	3180	1/2	295	3180	1/2	295	3180	1/2	295	3180	1/2	295			
CIRCLING	3320	1	429	3360	1	469	3480	1 1/2	589	3480	2	589			

QUALITY
20
CHECKED

CHANGES - REASONS

1. CHANGED MAG VAR FROM 9E TO 5E - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025. PER CFPT, GCK VORTAC NOT TO BE ROTATED.
2. CHANGED PBN REQUIREMENTS NOTE FROM RNP APCH TO RNP APCH-GPS PER FAAO 8260.19H, PARA 8-6-8.B.(2).
3. CHANGED RNAV CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C OR ABOVE 43°C TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C OR ABOVE 54°C - UTILIZED 5-YEAR ACT AND AHT TEMPERATURES FROM 2017 TO 2021, TARGETS CALCULATED.
4. CHANGED TERMINAL ROUTE FROM GCK VORTAC TO PIRIY COURSE FROM 170.93 TO 174.95 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025 AND NEW SURVEY DATA CHANGED ALIGNMENT.
5. CHANGED TERMINAL ROUTE FROM BOONS TO PIRIY COURSE FROM 032.03 TO 036.03 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
6. CHANGED TERMINAL ROUTE FROM ZILCH TO PIRIY COURSE FROM 274.09 TO 278.09 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
7. CHANGED TERMINAL ROUTE FROM "PIRIY TO TEYOT" TO "PIRIY TO PIEVE"; CHANGED COURSE FROM 351.42 TO 355.42; AND CHANGED DISTANCE FROM 6.11 TO 6.03 - TARGETS CALCULATED NEW PFAF, PIEVE REPLACED TEYOT TO MATCH ILS RW35 PFAF; MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 534 FT SOUTH.
8. CHANGED TERMINAL ROUTE FROM TEYOT TO RW35 TO PIEVE TO TELIC/2.90 NM TO RW35; CHANGED COURSE FROM 351.42 TO 355.42; AND CHANGED DISTANCE FROM 5.45 TO 2.64 - TARGETS CALCULATED NEW PFAF, PIEVE, TO MATCH ILS RW35 PFAF MOVED 534 FT NORTH; TARGETS CALCULATED SDF SEGMENT ADDED; AND MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
9. ADDED TERMINAL ROUTE "FROM TELIC/2.90 NM TO RW35 TO RW35" COURSE 355.42, DISTANCE 2.90 NM - TARGETS CALCULATED SDF SEGMENT ADDED TO MITIGATE NEW FINAL SEGMENT CONTROLLING OBSTACLE 3070 FT AAO.
10. CHANGED TERMINAL ROUTE FROM RW35 TO 3135 MSL TO RW35 TO 3085; CHANGED COURSE FROM 351.42 TO 355.42 - LPV DA LOWERED FROM 3135 TO 3085; AND MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
11. CHANGED PROFILE LINE 2 FROM "HOLD S PIRIY, RT, 351.42 INBOUND, 4800 FT. IN LIEU OF PT (IAF), MAX 6000" TO "HOLD S PIRIY, RT, 355.42 INBOUND, 4800 FT IN LIEU OF PT (IAF), MAX 6000" - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
12. CHANGED PROFILE LINE 3 FROM FAC 351.42 TO 355.42; CHANGED DIST FAF TO MAP/DIST FAF TO THLD FROM 5.45 TO 5.54 - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025; TARGETS CALCULATED PFAF MOVED 534 FT SOUTH.
13. ADDED TO PROFILE LINE 4 "TELIC/2.90 NM TO RW35 3860" - ADDED TARGETS CALCULATED SDF TO MITIGATE NEW FINAL SEGMENT CONTROLLING OBSTACLE 3070 FT AAO.
14. CHANGED VDP PROFILE VIEW NOTE FROM "CHART VDP *0.89 NM TO RW35" TO "CHART VDP 0.82 NM TO RW35" - ASTERISK REMOVED, LNAV MDA LOWERED 20 FT.
15. CHANGED ADDITIONAL FLIGHT DATA FROM "CHART FAS OBST: 2936 TREE 375039N/1004315W" TO "CHART FAS OBST: 2919 POLE (20-022592) 375509N/1004331W" AND ADDED "2985 AAO 375157N/1004221W" - THE 2985 FT AAO IS THE 7:1 OBSTACLE, STEPPED OVER WITH THE NEW SDF, THE NEW FINAL APPROACH SEGMENT CONTROLLING OBSTACLE IS NOW THE 2919 FT POLE.
16. CHANGED ADDITIONAL FLIGHT DATA: HOLD N, RT, 171.42 INBOUND TO HOLD N, RT, 175.42 INBOUND - MAGVAR ROTATION FROM E9/EPOCH YEAR 1985 TO E5/EPOCH YEAR 2025.
17. CRC REMAINDER CHANGED FROM 074E2C4B TO 60D7854E - FPAP LOCATION CHANGED AND VAL CHANGED FROM 50 TO 35.
18. LOWERED LPV DA/HAT FROM 3135/250 TO 3085/200 - LPV FINAL OCS IS CLEAR = 200 FT HAT.
19. LOWERED LNAV/VNAV DA/HAT FROM 3169/284 TO 3135/250 - LNAV/VNAV FINAL OCS IS CLEAR = 250 FT HAT.
20. LOWERED LNAV MDA/HAT FROM 3200/315 TO 3180/295 - FINAL STEP-DOWN FIX ADDED TO LOWER MINIMA.
21. LOWERED LNAV/VNAV CAT D VISIBILITY FROM 3/4 SM TO 1/2 SM - PER FAAO 8260.3E, TABLE 3-3-1.
22. LOWERED LNAV CAT D VISIBILITY FROM 1 SM TO 1/2 SM - PER FAAO 8260.3E, TABLE 3-3-1.
23. REMOVED *LNAV ONLY FROM ADDITIONAL FLIGHT DATA - PER FAAO 8260.19I, ASTERISK NO LONGER REQUIRED FOR VDP NOTE.
24. ADDED AIRSPEED RESTRICTION 230 AT ZILCH - CFPT REQUESTED, REQUIRED TO RETAIN INITIAL APPROACH SEGMENT LEG LENGTH.
25. CHANGED CHART NOTE FROM "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM, AND LNAV CAT C VISIBILITY TO 7/8 SM. INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT D." TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV CATS C/D VISIBILITY TO 3/4 SM, AND LNAV CATS C/D VISIBILITY TO 7/8 SM." - PER FAAO 8260.3E, TABLES 3-3-1, 3-3-3, 3-3-4 AND INOPERATIVE COMPONENTS OR VISUAL AIDS TABLE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: AMGR, GCK ATCT, ZKC, KS STATE AERO.

FLIGHT CHECKED BY

PENDING

OFFICE

DATE

Digitally signed by
DONALD E SMITH
Aug 23, 2022

DEVELOPED BY

WILLIAM HANBY

Digitally signed by
WILLIAM HANBY
Aug 05, 2022

OFFICE

AJV-A412

DATE

06/16/2022

APPROVED BY

JULIE MORGAN

OFFICE

AJV-A410

DATE

TITLE
MANAGER

Digitally signed by
DONALD E SMITH
Aug 23, 2022



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGCK
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	375509.1445N
LTP/FTP LONGITUDE	1004322.8150W
LTP/FTP ELLIPSOIDAL HEIGHT	+08512
FPAP LATITUDE	375638.3420N
FPAP LONGITUDE	1004321.9955W
THRESHOLD CROSSING HEIGHT (TCH)	00059.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	60D7854E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+08768
FPAP ORTHOMETRIC HEIGHT	+08768