

US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet. MSL. Altitudes are minimum altitudes unless otherwise indicated.

Distances are in nautical miles (NM). Graphic depiction attached.

Arrival Name GIIBS (RNAV)	Number TWO	STAR Computer Code GIIBS.GIIBS2	Superseded Number ONE	Dated 05 MAR 2015	Effective Date 10 NOV 2016
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
EASEL	EASEL.GIIBS2	EASEL	EASEL						AT/ABOVE 13000
			GIIBS	357.05	07.18	10000	2200		
HAGAL	HAGAL.GIIBS2	HAGAL	HAGAL						
			HASEV	358.37	11.59	10000	2300		AT/ABOVE FL240
			ONAGY	358.18	11.79	10000	2000		
			EASEL	358.44	27.82	10000	2200		AT/ABOVE 13000
			GIIBS	357.05	07.18	10000	2200		

ARRIVAL ROUTE DESCRIPTION:

FROM GIIBS ON TRACK 340.93/7.60 TO BUPTE (MEA 10000/MOCA 2300).

LANDING RWY 05L: FROM BUPTE ON TRACK 340.90/4.03 TO CROSS JOCKE BETWEEN 12000 AND 16000 (MEA 10000/MOCA 2100), THEN ON TRACK 326.04/10.04 TO CROSS FAMIL AT OR ABOVE 10000 (MEA 8000/MOCA 2200), THEN ON TRACK 327.77/10.16 TO CROSS MOSLY AT OR ABOVE 7000 AND AT 230 KIAS (MEA 5000/MOCA 2100), THEN ON TRACK 319.71/6.22 TO CROSS KNIGT AT 6000 AND AT 210 KIAS (MEA 3500/MOCA 2100), THEN ON TRACK 229.71/7.25 TO DOCEY (MEA 2500), THEN ON TRACK 229.71. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 05R: FROM BUPTE ON TRACK 340.90/4.03 TO CROSS JOCKE BETWEEN 12000 AND 16000 (MEA 10000/MOCA 2100), THEN ON TRACK 326.04/10.04 TO CROSS FAMIL AT OR ABOVE 10000 (MEA 8000/MOCA 2200), THEN ON TRACK 327.77/10.16 TO CROSS MOSLY AT OR ABOVE 7000 AND AT 230 KIAS (MEA 5000/MOCA 2100), THEN ON TRACK 319.71/6.22 TO CROSS KNIGT AT 6000 AND AT 210 KIAS (MEA 3500/MOCA 2100), THEN ON TRACK 229.71/7.25 TO DOCEY (MEA 2500), THEN ON TRACK 229.71. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 14: FROM BUPTE ON TRACK 340.90/4.03 TO CROSS JOCKE BETWEEN 12000 AND 16000 (MEA 10000/MOCA 2100), THEN ON TRACK 323.67/10.04 TO CROSS OPEVE AT OR ABOVE 10000 (MEA 8000/MOCA 2200), THEN ON TRACK 327.77/10.16 TO CROSS MOSLY AT OR ABOVE 7000 AND AT 230 KIAS (MEA 5000/MOCA 2100), THEN ON TRACK 309.27/10.52 TO CROSS ROGIE AT OR ABOVE 7000 AND AT 230 KIAS (MEA 6000/MOCA 2100), THEN ON TRACK 309.16/7.00 TO CROSS PNFLD AT 6000 AND AT 210 KIAS (MEA 3500/MOCA 2200), THEN ON TRACK 319.61/7.00 TO WONOK (MEA 3500/MOCA 2200), THEN ON TRACK 319.61. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 23L: FROM BUPTE ON TRACK 340.90/4.03 TO CROSS JOCKE BETWEEN 12000 AND 16000 (MEA 10000/MOCA 2100), THEN ON TRACK 326.04/10.04 TO CROSS FAMIL AT OR ABOVE 10000 (MEA 8000/MOCA 2200), THEN ON TRACK 327.77/10.16 TO CROSS MOSLY AT OR ABOVE 7000 AND AT 230 KIAS (MEA 5000/MOCA 2100), THEN ON TRACK 319.71/6.22 TO CROSS KNIGT AT 6000 AND AT 210 KIAS (MEA 3500/MOCA 2100), THEN ON TRACK 049.60/6.50 TO RAMEY (MEA 2500), THEN ON TRACK 049.60. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 23R: FROM BUPTE ON TRACK 340.90/4.03 TO CROSS JOCKE BETWEEN 12000 AND 16000 (MEA 10000/MOCA 2100), THEN ON TRACK 326.04/10.04 TO CROSS FAMIL AT OR ABOVE 10000 (MEA 8000/MOCA 2200), THEN ON TRACK 327.77/10.16 TO CROSS MOSLY AT OR ABOVE 7000 AND AT 230 KIAS (MEA 5000/MOCA 2100), THEN ON TRACK 319.71/6.22 TO CROSS KNIGT AT 6000 AND AT 210 KIAS (MEA 3500/MOCA 2100), THEN ON TRACK 049.60/6.50 TO RAMEY (MEA 2500), THEN ON TRACK 049.60. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 32: FROM BUPTE ON TRACK 340.88/10.38 TO CROSS SADLE AT OR ABOVE 7000 AND AT 230 KIAS (MEA 6000/MOCA 2200), THEN ON TRACK 320.93/11.85 TO CROSS OZMOE AT OR ABOVE 4500 AND AT 210 KIAS (MEA 3500/MOCA 2100). EXPECT RNAV(RNP), RNAV(GPS) OR ILS OR LOC RWY 32 OR RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: Expect descend via clearance and landing direction assignment by Indianapolis Center. Approach will assign landing Rwy.

NOTE: For non-GPS equipped aircraft landing Rwy 14; SHB DME must be operational.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT EASEL: HOLD S, 358.44 INBOUND, LT, 10 NM LEGS.

CHART HOLDING AT HASEV: HOLD S, 358.37 INBOUND, LT, 10 NM LEGS.

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GIIBS (RNAV)	TWO	GIIBS.GIIBS2	ONE	05 MAR 2015	10 NOV 2016

COMMUNICATIONS:

IND ATIS, IND APP CON.

AIRPORTS SERVED:

INDIANAPOLIS INTL, INDIANAPOLIS, IN

LOST COMMUNICATIONS PROCEDURE:

CHART LOST COMMUNICATION: IN THE EVENT OF LOST COMMUNICATION PRIOR TO RUNWAY ASSIGNMENT, EXECUTE ILS OR LOC RWY 23R APPROACH

REMARKS:

CRITICAL DME NOTE THE RESULT OF POST FLIGHT INSPECTION DME/DME ASSESSMENT FOR THE GIIBS ONE.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KIND 05W/2015

FLIGHT INSPECTED BY:

Edward W Mesa

Name

FICO

Organization

07/29/2016

Date

Digitally signed by
JACOB POWERS
Sep 12, 2016

Signature

DEVELOPED BY:

Thomas Dury

Name

Airspace and Procedures Manager,
Indianapolis ARTCC

Organization

06/10/2016

Date

Digitally signed by
Patrick Mulqueen

Signature

APPROVED BY:

Patrick J Mulqueen Jr

Name

Manager, AJV 5442

Organization

06/10/2016

Date

Digitally signed by
Patrick Mulqueen

Signature

CHANGES:

1. Add 230 KIAS restriction at MOSLY, SADLE, and ROGIE.
2. Removed SLGGR WP and moved start of enroute transition 5 NM down track to new WP HAGAL.
3. Added ONAGY WP to the HAGAL transition.
4. Add holding at HASEV WP.
5. Add Lost Communication instructions.
6. Added "Expect descend via clearance..." note.
7. Added NOTE: For non-GPS equipped aircraft landing Rwy 14; SHB DME must be operational.

REASONS:

1. ATC request to manage compression.
2. Removed SLGGR due to similar sounding fix SLGRR nearby; moved enroute transition start to deconflict vertical profile with crossing STARs to other airports.
3. Needed for ZID internal procedures between Areas 1 and 7.

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4. Additional holding needed on GIIBS STAR.
5. ATC and industry request to manage crew expectations and provide standard procedures in the event of lost communication.
6. ATC request to mitigate pilot requests for clearance and runway assignments.
7. To support the results of the post flight inspection DME/DME assessment of the GIBBS ONE.

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STAR (DATA RECORD)

Arrival Name GIIBS (RNAV)		Number TWO		STAR Computer Code GIIBS.GIIBS2		Superseded Number ONE		Dated 05 MAR 2015	Effective Date 10 NOV 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
EASEL	390205.70N / 0854256.78W	Y		IF			AT/ABOVE 13000		EASEL.GIIBS2
GIIBS	390912.73N / 0854413.34W	Y	FB	TF	352.05	07.18			
En Route Transition									
HAGAL	381111.38N / 0853522.72W	Y		IF					HAGAL.GIIBS2
HASEV	382242.86N / 0853704.79W	Y	FB	TF	353.37	11.59	AT/ABOVE FL240		
ONAGY	383425.78N / 0853851.88W	Y	FB	TF	353.18	11.79			
EASEL	390205.70N / 0854256.78W	Y	FB	TF	353.44	27.82	AT/ABOVE 13000		
GIIBS	390912.73N / 0854413.34W	Y	FB	TF	352.05	07.18			
Common Route									
GIIBS	390912.73N / 0854413.34W	Y		IF					GIIBS.GIIBS2
BUPTE	391609.49N / 0854812.92W	Y	FB	TF	335.93	07.60			
Runway Transition									
BUPTE	391609.49N / 0854812.92W	Y		IF					
JOCKE	391950.34N / 0855020.15W	Y	FB	TF	335.90	04.03	12000B16000		
FAMIL	392738.80N / 0855829.08W	Y	FB	TF	321.04	10.04	AT/ABOVE 10000		
MOSLY	393544.12N / 0860625.94W	Y	FB	TF	322.77	10.16	AT/ABOVE 7000	AT 230K	
KNIGT	394006.75N / 0861209.40W	Y	FB	TF	314.71	06.22	AT 6000	AT 210K	
DOCEY	393457.16N / 0861845.23W	Y	FO	TF	224.71	07.25			
KIND:RWY 05L				FM	224.71				RECOMMENDED NAVAID: ROD VORTAC
Runway Transition									
BUPTE	391609.49N / 0854812.92W	Y		IF					
JOCKE	391950.34N / 0855020.15W	Y	FB	TF	335.90	04.03	12000B16000		
FAMIL	392738.80N / 0855829.08W	Y	FB	TF	321.04	10.04	AT/ABOVE 10000		
MOSLY	393544.12N / 0860625.94W	Y	FB	TF	322.77	10.16	AT/ABOVE 7000	AT 230K	
KNIGT	394006.75N / 0861209.40W	Y	FB	TF	314.71	06.22	AT 6000	AT 210K	

QUALITY
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DOCEY	393457.16N / 0861845.23W	Y	FO	TF	224.71	07.25			
KIND:RWY 05R				FM	224.71				RECOMMENDED NAVAID: ROD VORTAC
Runway Transition									
BUPTE	391609.49N / 0854812.92W	Y		IF					
JOCKE	391950.34N / 0855020.15W	Y	FB	TF	335.90	04.03	12000B16000		
OPEVE	392722.63N / 0855853.62W	Y	FB	TF	318.67	10.04	AT/ABOVE 10000		
PDIDY	393026.82N / 0860223.27W	Y	FB	TF	318.60	04.09			
ROGIE	393622.18N / 0861338.40W	Y	FB	TF	304.27	10.52	AT/ABOVE 7000	AT 230K	
PNFLD	394017.94N / 0862108.52W	Y	FB	TF	304.16	07.00	AT 6000	AT 210K	
WONOK	394512.96N / 0862736.21W	Y	FO	TF	314.61	07.00			
KIND:RWY 14				FM	314.61				RECOMMENDED NAVAID: ROD VORTAC
Runway Transition									
BUPTE	391609.49N / 0854812.92W	Y		IF					
JOCKE	391950.34N / 0855020.15W	Y	FB	TF	335.90	04.03	12000B16000		
FAMIL	392738.80N / 0855829.08W	Y	FB	TF	321.04	10.04	AT/ABOVE 10000		
MOSLY	393544.12N / 0860625.94W	Y	FB	TF	322.77	10.16	AT/ABOVE 7000	AT 230K	
KNIGT	394006.75N / 0861209.40W	Y	FB	TF	314.71	06.22	AT 6000	AT 210K	
RAMEY	394444.58N / 0860614.30W	Y	FO	TF	044.60	06.50			
KIND:RWY 23L				FM	044.60				RECOMMENDED NAVAID: ROD VORTAC
Runway Transition									
BUPTE	391609.49N / 0854812.92W	Y		IF					
JOCKE	391950.34N / 0855020.15W	Y	FB	TF	335.90	04.03	12000B16000		
FAMIL	392738.80N / 0855829.08W	Y	FB	TF	321.04	10.04	AT/ABOVE 10000		
MOSLY	393544.12N / 0860625.94W	Y	FB	TF	322.77	10.16	AT/ABOVE 7000	AT 230K	
KNIGT	394006.75N / 0861209.40W	Y	FB	TF	314.71	06.22	AT 6000	AT 210K	

QUALITY
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RAMEY	394444.58N / 0860614.30W	Y	FO	TF	044.60	06.50			
KIND:RWY 23R				FM	044.60				RECOMMENDED NAVAID: ROD VORTAC
Runway Transition									
BUPTTE	391609.49N / 0854812.92W	Y		IF					
SADLE	392538.17N / 0855341.32W	Y	FB	TF	335.88	10.38	AT/ABOVE 7000	AT 230K	
OZMOE	393409.13N / 0860420.96W	Y	FB	TF	315.93	11.85	AT/ABOVE 4500	AT 210K	
KIND:RWY 32									

QUALITY
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