

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRIZN (RNAV)	THREE	FRIZN.FRIZN3	TWO	18 SEPT 2014	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
RAMSE	RAMSE.FRIZN3	RAMSE	RAMSE						
			SUSZE	139.16	30.66	10000	2200		
			UNCOD	139.50	15.96	10000	2300		
			FRIZN	139.48	14.58	10000	2100		

ARRIVAL ROUTE DESCRIPTION:

FROM FRIZN ON TRACK 139.70/11.61 TO HONOS (MEA 6000/MOCA 2300), THEN ON ASSIGNED RUNWAY TRANSITION.

LANDING RWY 17L: FROM HONOS ON TRACK 121.86/17.01 TO CROSS THUND AT OR ABOVE 5000 (MEA 5000/MOCA 2300), THEN ON TRACK 167.86/3.53 TO CROSS RACRR AT OR ABOVE 4000 (MEA 4000/MOCA 3000). EXPECT ILS OR LOC RWY 17L.

LANDING RWY 17R: FROM HONOS ON TRACK 130.57/19.07 TO CROSS SPYRS AT OR ABOVE 4000 (MEA 4000/MOCA 3000), THEN ON TRACK 168.37/3.49 TO CROSS BLGRS AT OR ABOVE 3000 (MEA 3000). EXPECT ILS OR LOC RWY 17R.

LANDING RWY 29: FROM HONOS ON TRACK 149.96/8.09 TO HOOLA (MEA 6000/MOCA 2200), THEN ON TRACK 132.79/17.80 TO MIDDR (MEA 3000), THEN ON TRACK 114.61/15.40 TO SORTT (MEA 2300), THEN ON TRACK 114.61. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 35L/R: FROM HONOS ON TRACK 159.96/14.53 TO PROUF (MEA 6000/MOCA 2300), THEN ON TRACK 149.17/14.10 TO HAUGN (MEA 6000/MOCA 2400), THEN ON TRACK 163.74/8.15 TO LEWSS (MEA 5000/MOCA 2400), THEN ON TRACK 168.39. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE..

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: TURBOJET AIRCRAFT ONLY

CHART AT FRIZN: "EXPECT CLEARANCE TO CROSS AT 11000/250 KIAS."

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT RAMSE: NW, RT, 139.16 INBOUND, 10 NM LEGS.

CHART HOLDING AT FRIZN: NW, RT, 139.70 INBOUND, 10 NM LEGS.

CHART BRBON AND IIU VORTAC AS STAND-ALONE FIXES.

COMMUNICATIONS:

LOUISVILLE APP CON

STANDIFORD ATIS

AIRPORTS SERVED:

LOUISVILLE INTL-STANDIFORD FIELD, LOUISVILLE, KY

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRIZN (RNAV)	THREE	FRIZN.FRIZN3	TWO	18 SEPT 2014	

LOST COMMUNICATIONS PROCEDURE:

LANDING RWY 17L: TRACK TO RACRR, CROSS RACRR AT OR ABOVE 4000, INTERCEPT AND EXECUTE ILS OR LOC RWY 17L APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 17R: TRACK TO BLGRS, CROSS BLGRS AT OR ABOVE 3000, INTERCEPT AND EXECUTE ILS OR LOC RWY 17R APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 35L/R: TRACK TO LEWSS, CROSS LEWSS AT 5000, THEN PROCEED DIRECT BRBON, MAINTAIN 5000, EXECUTE ILS OR LOC RWY 35L APPROACH. IF UNABLE PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

LANDING RWY 29: TRACK TO SORTT, MAINTAIN 3000, AT SORTT FLY HEADING 210, MAINTAIN 3000, INTERCEPT AND EXECUTE LOC RWY 29 APPROACH. IF UNABLE, PROCEED TO IIU VORTAC AND HOLD, MAINTAIN 6000.

REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KSDF 03W/1995

SPECIAL CHARTING REQUEST: INSERT "TRK" ON GRAPHIC DEPICTION AFTER MAGNETIC COURSES FOR FM LEGS AFTER LEWSS AND SORTT.

CHART AT LEWSS: "LANDING RWY 35L/R; EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER LEWSS."

CHART AT SORTT: "LANDING RWY 29: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER SORTT."

FLIGHT INSPECTED BY:

Name

Organization

Date

Signature

DEVELOPED BY:

THOMAS DURY, MANAGER, AIRSPACE AND
PROCEDURES

INDIANAPOLIS ARTCC

Name

Organization

Date

Signature

APPROVED BY:

MARLON J. ROBINSON, MANAGER

AJV-5410

Name

Organization

Date

Signature

CHANGES:

1. ALTITUDE RESTRICTIONS AT FRIZN AND HAUGN DELETED.
2. TTH ENROUTE TRANSITION DELETED.
3. RAMSE ENROUTE TRANSITION CREATED.
4. NEW RWY 29 TRANSITION CREATED WITH HOOLA, MIDDR AND SORTT WAYPOINTS.
5. CANBE REMOVED FROM RWY 35L/R TRANSITION.
6. PROUF ADDED TO RWY 35L/R TRANSITION.
7. PILOT PLANNING GRAPHIC CHART NOTES FOR LANDING RWY 35L/R/29 REVISED TO REFLECT REVISED TRANSITIONS.

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRIZN (RNAV)	THREE	FRIZN.FRIZN3	TWO	18 SEPT 2014	

8. LOST COMMUNICATION PROCEDURES FOR RWY 35L/R/29 REVISED TO REFLECT NEW RWY 29 AND REVISED RUNWAY TRANSITIONS.
9. LEWSS ADDED TO RWY 35L/R TRANSITION.
10. STUGZ REMOVED FROM RWY 35L/R TRANSITION.
11. BNETT REMOVED FROM RWY 35L/R TRANSITION.
12. LAANG LOM STAND-ALONE FIX REMOVED.

REASONS:

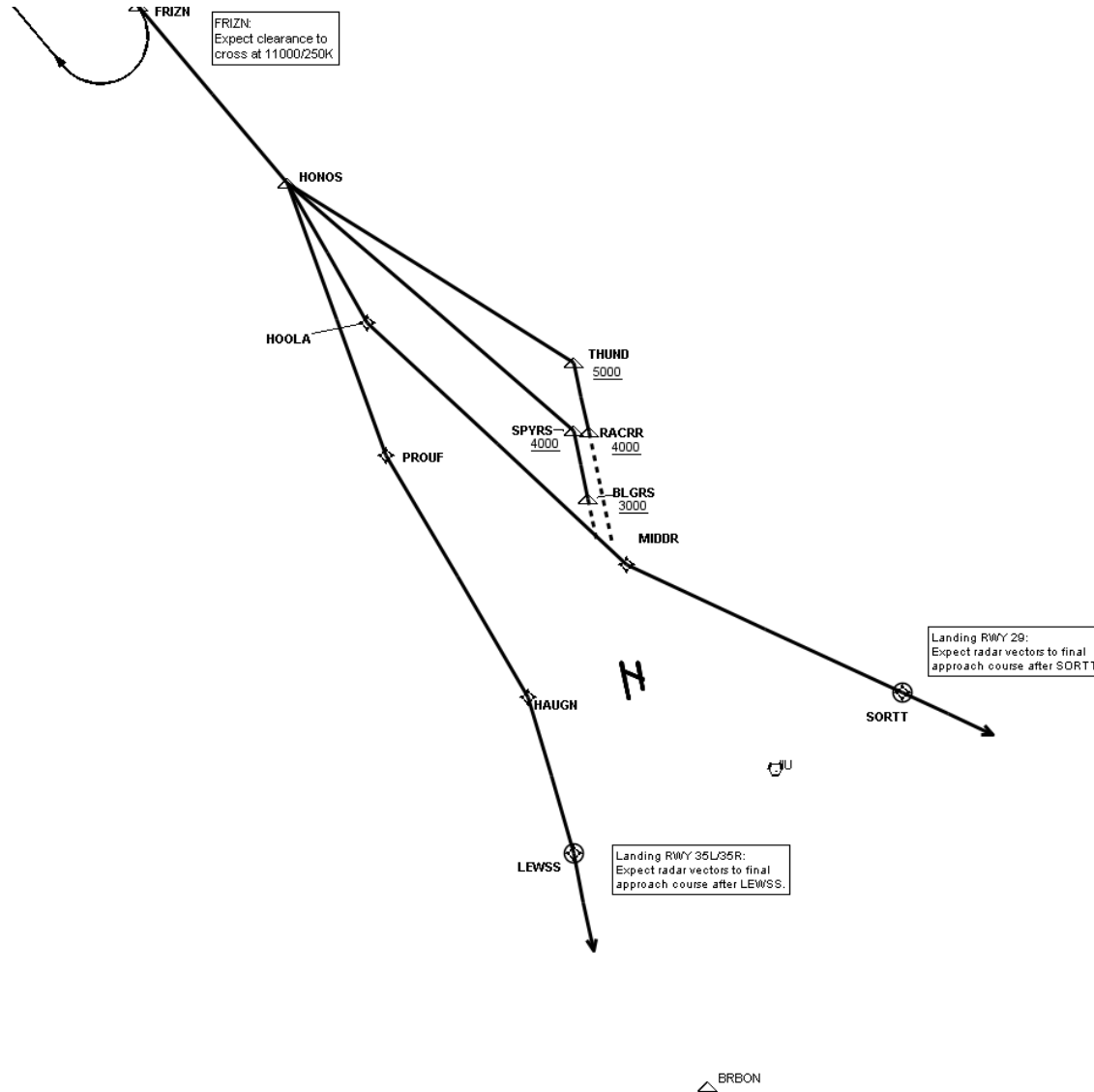
1. CORRECTIVE ACTION REPORT AND AIR TRAFFIC SAFETY ACTION PROGRAM REPORT RESOLUTION.
- 2-3. GROUND BASED NAVAID REMOVED FROM PROCEDURE.
4. IMPROVE EFFICIENCY FOR RWY 29 ARRIVALS.
- 5-6. AIRSPACE PROTECTION.
- 7-8. RUNWAY ARRIVAL ROUTES CHANGED.
- 9-11. PROCEDURE DISCONNECTED FROM RNP APPROACHES.
12. NAVAID NOT RELEVANT TO PROCEDURE.

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRIZN (RNAV)	THREE	FRIZN.FRIZN3	TWO	18 SEPT 2014	
Graphic Depiction 1					



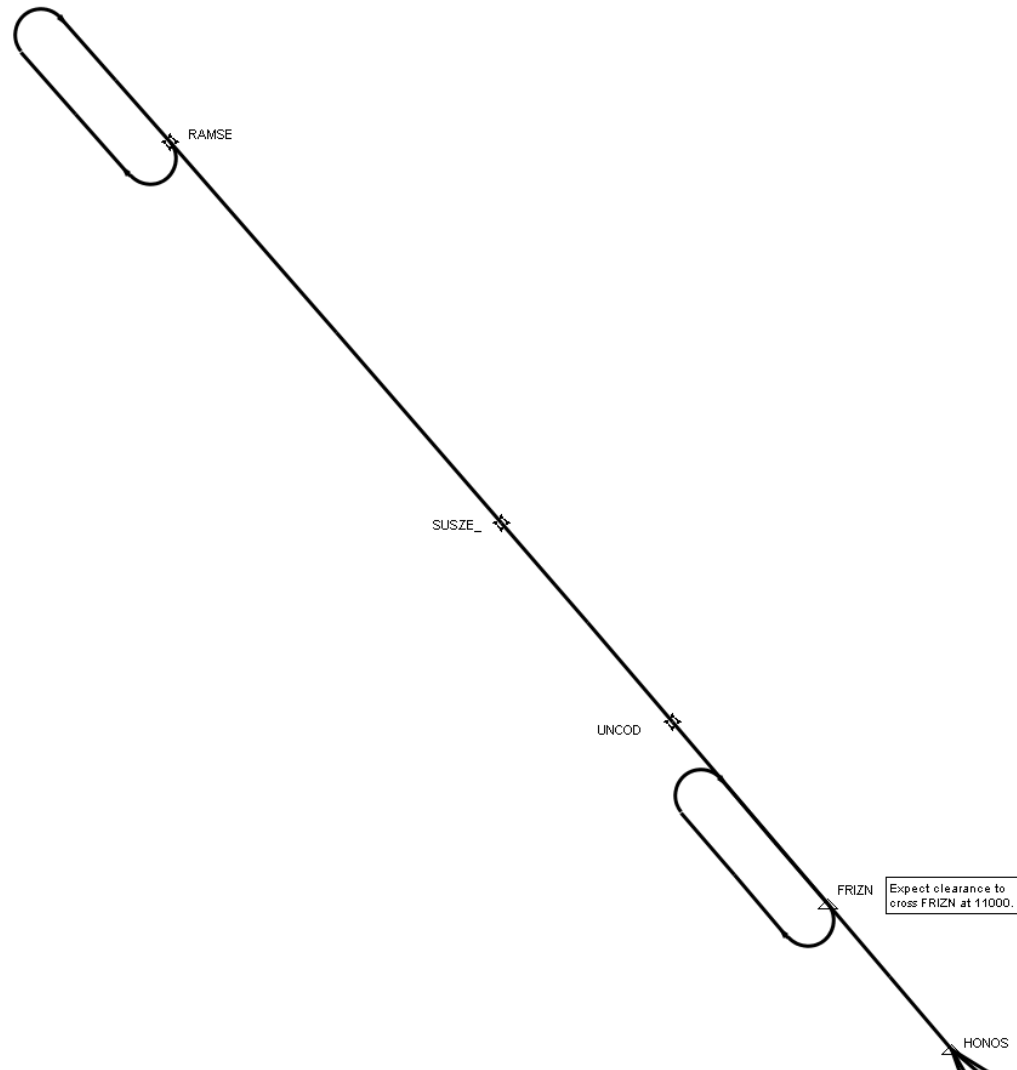
US DEPARTMENT of TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
STANDARD TERMINAL ARRIVAL (STAR)

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	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
FRIZN (RNAV)	THREE	FRIZN.FRIZN3	TWO	18 SEPT 2014	

Graphic Depiction 2



STAR (DATA RECORD)

Arrival Name FRIZN (RNAV)	Number THREE	STAR Computer Code FRIZN.FRIZN3	Superseded Number TWO	Dated 18 SEPT 2014	Effective Date
-------------------------------------	------------------------	---	---------------------------------	------------------------------	----------------

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
RAMSE	392710.31N / 0871215.36W	Y		IF					RAMSE.FRIZN3
SUSZE	390459.00N / 0864459.00W	Y	FB	TF	136.16	30.66			
UNCOD	385322.86N / 0863054.69W	Y	FB	TF	136.50	15.96			
FRIZN	384247.04N / 0861804.78W	Y	FB	TF	136.48	14.58			

Common Route									
FRIZN	384247.04N / 0861804.78W	Y		IF					FRIZN.FRIZN3
HONOS	383419.24N / 0860755.74W	Y	FB	TF	136.70	11.61			

Runway Transition									
HONOS	383419.24N / 0860755.74W	Y		IF					
THUND	382604.54N / 0854858.05W	Y	FB	TF	118.86	17.01	AT/ABOVE 5000		
RACRR	382239.71N / 0854747.64W	Y	FB	TF	164.86	03.53	AT/ABOVE 4000		
KSDF:RWY 17L									

Runway Transition									
HONOS	383419.24N / 0860755.74W	Y		IF					
SPYRS	382239.30N / 0854842.51W	Y	FB	TF	127.57	19.07	AT/ABOVE 4000		
BLGRS	381916.28N / 0854735.24W	Y	FB	TF	165.37	03.49	AT/ABOVE 3000		
KSDF:RWY 17R									

Runway Transition									
HONOS	383419.24N / 0860755.74W	Y		IF					
HOOLA	382731.58N / 0860218.61W	Y	FB	TF	146.96	08.09			
MIDDR	381606.17N / 0854456.62W	Y	FB	TF	129.79	17.80			
SORTT	381024.05N / 0852647.14W	Y	FO	TF	111.61	15.40			
KSDF:RWY 29				FM	111.61				RECOMMENDED NAVAID: RID VORTAC

 QUALITY
17
CHECKED

STAR (DATA RECORD)

Arrival Name		Number		STAR Computer Code		Superseded Number		Dated	Effective Date
FRIZN (RNAV)		THREE		FRIZN.FRIZN3		TWO		18 SEPT 2014	
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
Runway Transition									
HONOS	383419.24N / 0860755.74W	Y		IF					
PROUF	382055.82N / 0860042.03W	Y	FB	TF	156.96	14.53			
HAUGN	380911.74N / 0855044.80W	Y	FB	TF	146.17	14.10			
LEWSS	380129.42N / 0854720.62W	Y	FO	TF	160.74	08.15			
KSDF:RWY 35B				FM	165.39				RECOMMENDED NAVAID: RID VORTAC

