

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
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 depictions attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>LIBER (RNAV)</b>	<b>THREE</b>	<b>CAWIN.LIBER3</b>	<b>TWO</b>	<b>12/10/2015</b>	<b>22 JUN 2017</b>

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
-----------------	------------------------------	--------------------	------------------	------------	----------	-----	------	-----	----------------------------

ARRIVAL ROUTE DESCRIPTION:

FROM CAWIN ON TRACK 357.29/48.00 TO CROSS LIBER AT OR ABOVE 8900, THEN ON TRACK 357.73/24.30 TO CROSS GLOWS AT OR ABOVE 7100.

LANDING RWY 02L: FROM GLOWS ON TRACK 343.08/6.98 TO CROSS URSAA AT OR ABOVE 5000, THEN ON TRACK 343.07/3.01 TO CROSS CILAX AT OR ABOVE 4100, THEN ON TRACK 020.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 20R: FROM GLOWS ON TRACK 018.47/25.48 TO CROSS MINRR BETWEEN 5000 AND 6500 AND AT OR BELOW 210 KIAS, THEN ON TRACK 018.62/4.79 TO CROSS HISKA AT 5000, THEN ON TRACK 020.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RNAV 1

NOTE: GPS REQUIRED

NOTE: MONITOR ATIS FOR RWY IN USE.

NOTE: EXPECT RWY ASSIGNMENT FROM FAIRBANKS APPROACH CONTROL UPON INITIAL CONTACT.

NOTE: RADAR REQUIRED AFTER GLOWS.

FIXES AND/OR HOLDING PATTERNS:

FAI VORTAC (HOLD W, RT, 090.00 INBOUND, 9 NM LEGS.)

COMMUNICATIONS:

FAIRBANKS APP CON, ATIS.

AIRPORTS SERVED:

FAIRBANKS INTL, FAIRBANKS, AK

LOST COMMUNICATIONS PROCEDURE:

RUNWAY 2L: AFTER CILAX, FLY HEADING 020, THEN PROCEED ON THE ILS OR LOC RWY 02L APPROACH. IF UNABLE, PROCEED DIRECT FAI VORTAC AND HOLD, MAINTAIN 5000.

RUNWAY 20R: AFTER HISKA, FLY HEADING 260, MAINTAIN 4200, THEN PROCEED ON THE ILS OR LOC RWY 20R APPROACH. IF UNABLE, PROCEED DIRECT FAI VORTAC AND HOLD, MAINTAIN 5000.

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
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 depictions attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>LIBER (RNAV)</b>	<b>THREE</b>	<b>CAWIN.LIBER3</b>	<b>TWO</b>	<b>12/10/2015</b>	<b>22 JUN 2017</b>

REMARKS:ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: NOT CONDUCTED

REFERENCE MAGNETIC VARIATION = PAFA 18E/2020.

CHART: LOST COMM TRACKS FOR RWY 02L AND RWY 20R.

CHART: I-CNA.

CHART: I-FAI.

FLIGHT INSPECTED BY:

TONY BAMSEY  
Name

FICO  
Organization

03/21/2017  
Date

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 29, 2017

Signature

DEVELOPED BY:

STEVE KESSLER  
Name

ANCHORAGE ARTCC  
Organization

10-10-16  
Date

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 29, 2017

Signature

APPROVED BY:

Name

Organization

Date

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 29, 2017

Signature

CHANGES:

1. CHANGED HEADING IN LOST COMM INSTRUCTIONS FOR RWY 02L FROM 017 TO 020; REMOVED WORDING TO JOIN RWY 02L LOCALIZER; REPLACED CLEARED WITH PROCEED ON.
2. ADDED CROSSING RESTRICTION AT LIBER TO CROSS AT OR ABOVE 8900.
3. REMOVED MEAS FROM ARRIVAL ROUTE DESCRIPTION.
4. CHANGED RESTRICTION AT CILAX FROM AT OR ABOVE 4000 TO AT OR ABOVE 4100.
5. CHANGED ARRIVAL ROUTE DESCRIPTION AFTER HSKA FROM 013 TRACK TO 020 TRACK.

REASONS:

1. ATC REQUEST--MATCH THE PUBLISHED HEADING ON THE ILS OR LOC RWY 02L IAP.
2. ATC REQUEST--PREVENTS PREMATURE DESCENT BELOW MOCA BETWEEN COWIN AND LIBER.
3. NO LONGER REQUIRED.
4. REQUIRED TO MEET DESCENT GRADIENT CRITERIA.
5. ATC REQUEST--020 TRACK CONVERGES WITH THE FINAL APPROACH COURSE.

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
LIBER (RNAV)	THREE	CAWIN.LIBER3	TWO	12/10/2015	22 JUN 2017

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
<b>Common Route</b>									
CAWIN	631651.22N / 1485917.56W	Y		IF			AT/ABOVE 12000		CAWIN.LIBER3
LIBER	640257.64N / 1483029.65W	Y	FB	TF	015.29	48.00	AT/ABOVE 8900		
GLOWS	642615.88N / 1481517.88W	Y	FB	TF	015.73	24.30	AT/ABOVE 7100		
<b>Runway Transition</b>									
GLOWS	642615.88N / 1481517.88W	Y		IF			AT/ABOVE 7100		
URSAA	643313.29N / 1481459.51W	Y	FB	TF	001.08	06.98	AT/ABOVE 5000		
CILAX	643612.98N / 1481451.67W	Y	FO	TF	001.07	03.01	AT/ABOVE 4100		
PAFA:RWY 02L				FM	038.00				RECOMMENDED NAVAID: JOH VOR/DME
<b>Runway Transition</b>									
GLOWS	642615.88N / 1481517.88W	Y		IF			AT/ABOVE 7100		
MINRR	644636.97N / 1473954.99W	Y	FB	TF	036.47	25.48	5000B6500	AT/BELOW 210K	
HISKA	645026.55N / 1473313.83W	Y	FO	TF	036.62	04.79	AT 5000		
PAFA:RWY 20R				FM	038.00				RECOMMENDED NAVAID: JOH VOR/DME