

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.
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ALDAN (RNAV)	FOUR	MCDON.ALDAN4	THREE	02/25/2021	25 JAN 2024

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
FRIKY	FRIKY.ALDAN4	FRIKY	FRIKY						
			MCDON	137.07	54.65	9000	4500		AT/BELOW 17000
KPASS	KPASS.ALDAN4	KPASS	KPASS						
			ROBLS	082.76	67.22	9000	8000		
			TABER	084.10	21.97	9000	5600		
			MCDON	122.90	54.61	9000	5200		AT/BELOW 17000
MELTN	MELTN.ALDAN4	MELTN	MELTN						
			MCDON	222.65	37.93	9000	2000		AT/BELOW 17000

ARRIVAL ROUTE DESCRIPTION:

FROM MCDON ON TRACK 175.80/14.84 TO CROSS FAVKO AT OR BELOW 12000, THEN ON TRACK 175.84/2.20 TO CROSS ALDAN BETWEEN 9000 AND 12000 AND AT 250 KIAS.

LANDING RWY 5L/R: FROM ALDAN ON TRACK 175.85/9.51 TO CROSS BILLA AT OR ABOVE 9000, THEN ON TRACK 176.30/11.48 TO CROSS BLNKR AT OR ABOVE 8000 AND AT 220 KIAS, THEN ON TRACK 183.58/5.17 TO CROSS GABLR AT OR ABOVE 7000, THEN ON TRACK 234.53/4.48 TO CROSS HEAVE AT 6000 AND AT 210 KIAS, THEN ON TRACK 234.53. EXPECT RNP RWY 5L APPROACH. NON-RNP AIRCRAFT: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 23L/R: FROM ALDAN ON TRACK 143.10/8.11 TO CROSS GAZER AT OR BELOW 9000, THEN ON TRACK 143.58/2.00 TO CROSS HARSH BETWEEN 8000 AND 9000 AND AT 210 KIAS, THEN ON TRACK 143.20/7.75 TO CROSS BUTTS AT 6000 AND AT 210 KIAS, THEN ON TRACK 143.20. EXPECT ILS OR RNAV RWY 23L OR RWY 23R APPROACH.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

NOTE: LANDING NORTHEAST: USE RWY 5L TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM TRACON PRIOR TO ALDAN.

NOTE: LANDING SOUTHWEST: USE RWY 23R TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM TRACON PRIOR TO ALDAN.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT ALDAN: HOLD N, RT, 175.84 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

APP CON

AIRPORTS SERVED:

AIRPORT ID
KRDU

CITY
RALEIGH/DURHAM

STATE
NC

QUALITY
14
CHECKED

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LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ABBREV AMDT.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAGNETIC VARIATION: KRDU 09W/2020

CHART AT HEAVE TERMINUS: KRDU LDG RWY 5L/R

CHART AT BUTTS TERMINUS: KRDU LDG RWY 23L/R

FLIGHT INSPECTED BY:

ORGANIZATION:

DATE:

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION VALIDATION.

Flight Inspected Signature:

Digitally signed by
DAVID TEFFETELLER

Aug 16, 2023

DEVELOPED BY:

GUY COPELAND

AJV-A433

07/25/2023

Developed By Signature:

Digitally signed by
DAVID TEFFETELLER

Aug 16, 2023

APPROVED BY:

JOHNNIE BAKER

AJV-A430

Approved By Signature:

Digitally signed by
DAVID TEFFETELLER

Aug 16, 2023

CHANGES:

1. WAYPOINT NAME CHANGED FROM TIVAE TO FRIKY; RENAMED TRANSITION.
2. UPDATED AND MOVED PROCEDURAL DATA NOTES RNAV 1 AND DME/DME/IRU OR GPS REQUIRED TO PBN REQUIREMENT NOTES AS RNAV 1 - DME/DME/IRU OR GPS.
3. MOVED NOTE RADAR REQUIRED FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES.
4. NOTES SECTION-CHANGED TURBOJET TO JET.
5. REMOVED AIRPORT NAME FROM AIRPORTS SERVED.
6. CHARTED MOCA DATA.

REASONS:

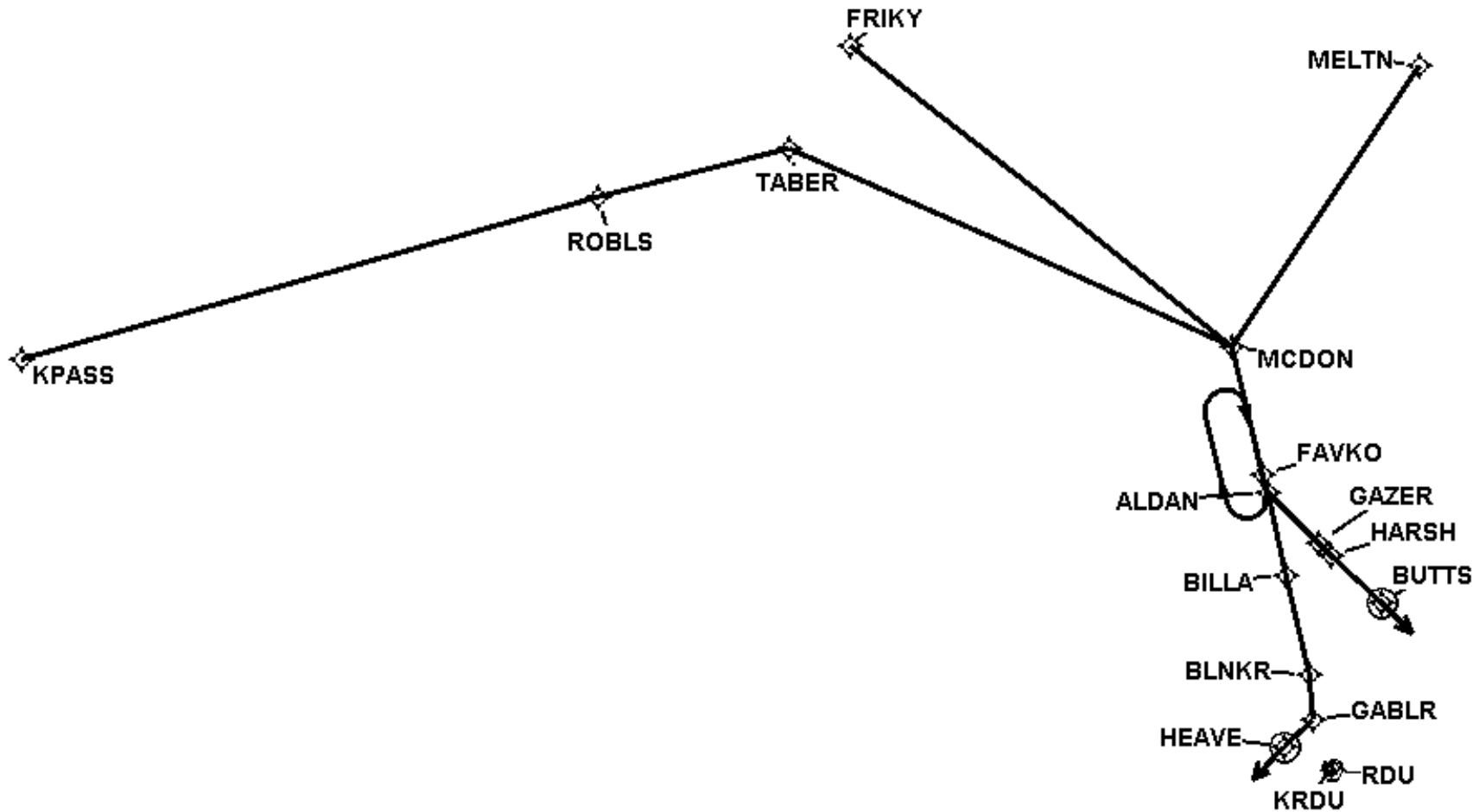
1. SIMILAR SOUNDING WAYPOINT IN THE SAME AREA.
2. NAVIGATION SPECIFICATION AND SENSOR INFORMATION REQUIRED TO BE ANNOTATED UNDER PBN REQUIREMENT NOTES.
3. EQUIPMENT REQUIREMENTS WILL APPEAR IN THEIR OWN DEDICATED SECTION IAW 8260.19I, PARA 8-6-8.
4. 5. CURRENT DOCUMENTATION STANDARDS.
6. IAW AFS MEMO DATED 07/01/2021.

QUALITY
14
CHECKED

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Graphic Depiction 1					



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)

Arrival Name ALDAN (RNAV)	Number FOUR	STAR Computer Code MCDON.ALDAN4		Superseded Number THREE		Dated 02/25/2021	Effective Date 25 JAN 2024		
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
En Route Transition									
FRIKY	371426.48N / 0795421.05W	Y		IF					FRIKY.ALDAN4
MCDON	364029.56N / 0790052.03W	Y	FB	TF	128.07	54.65	AT/BELOW 17000		
En Route Transition									
KPASS	363856.56N / 0814958.27W	Y		IF					KPASS.ALDAN4
ROBLS	365718.64N / 0802926.74W	Y	FB	TF	073.76	67.22			
TABER	370255.04N / 0800255.66W	Y	FB	TF	075.10	21.97			
MCDON	364029.56N / 0790052.03W	Y	FB	TF	113.90	54.61	AT/BELOW 17000		
En Route Transition									
MELTN	371209.22N / 0783444.33W	Y		IF					MELTN.ALDAN4
MCDON	364029.56N / 0790052.03W	Y	FB	TF	213.65	37.93	AT/BELOW 17000		
Common Route									
MCDON	364029.56N / 0790052.03W	Y		IF			AT/BELOW 17000		MCDON.ALDAN4
FAVKO	362601.27N / 0785640.09W	Y	FB	TF	166.80	14.84	AT/BELOW 12000		
ALDAN	362352.56N / 0785602.86W	Y	FB	TF	166.84	02.20	9000B12000	AT 250K	
Runway Transition									
ALDAN	362352.56N / 0785602.86W	Y		IF			9000B12000	AT 250K	
BILLA	361436.35N / 0785322.44W	Y	FB	TF	166.85	09.51	AT/ABOVE 9000	AT 250K	
BLNKR	360323.22N / 0785015.60W	Y	FB	TF	167.30	11.48	AT/ABOVE 8000	AT 220K	
GABLR	355814.12N / 0784939.51W	Y	FB	TF	174.58	05.17	AT/ABOVE 7000		
HEAVE	355505.41N / 0785335.78W	Y	FO	TF	225.53	04.48	AT 6000	AT 210K	
KRDU:RWY 5B				FM	225.53				
Runway Transition									
ALDAN	362352.56N / 0785602.86W	Y		IF			9000B12000	AT 250K	
GAZER	361813.08N / 0784850.38W	Y	FB	TF	134.10	08.11	AT/BELOW 9000		

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
HARSH	361648.66N / 0784704.60W	Y	FB	TF	134.58	02.00	8000B9000	AT 210K	
BUTTS	361123.72N / 0784012.70W	Y	FO	TF	134.20	07.75	AT 6000	AT 210K	
KRDU:RWY 23B				FM	134.20				