

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Arrival Name FRDMM (RNAV)	Number SIX	STAR Computer Code ALWYZ.FRDM6	Superseded Number FIVE	Dated 06/20/2019	Effective Date 16 MAY 2024
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TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
BUCKO	BUCKO.FRDM6	BUCKO	BUCKO						AT FL310
			DRRON	106.74	12.41	8000	6100		BETWEEN FL270 AND FL310
			HONNR	106.91	15.19	8000	6100		BETWEEN FL240 AND FL280
			BRVRY	107.19	12.79	8000	6100		BETWEEN FL220 AND FL260
			COURG	108.02	11.00	8000	5300		BETWEEN FL200 AND FL230
			PLDGE	108.16	17.06	8000	5100		BETWEEN 15000 AND 17000
			WEWIL	118.61	12.35	8000	4900		AT/ABOVE 14000
			NEVVR	119.09	06.03	8000	4200		AT/ABOVE 12000
			FORGT	119.17	06.71	8000	4200		AT/ABOVE 11000
			SEPII	119.25	05.00	8000	4000		AT/ABOVE 10000
			ALWYZ	119.32	04.89	8000	3400		AT/BELOW 10000
LUISE	LUISE.FRDM6	LUISE	LUISE						
			BUCKO	123.21	43.95	8000	6100		AT FL310
			DRRON	106.74	12.41	8000	6100		BETWEEN FL270 AND FL310
			HONNR	106.91	15.19	8000	6100		BETWEEN FL240 AND FL280
			BRVRY	107.19	12.79	8000	6100		BETWEEN FL220 AND FL260
			COURG	108.02	11.00	8000	5300		BETWEEN FL200 AND FL230
			PLDGE	108.16	17.06	8000	5100		BETWEEN 15000 AND 17000
			WEWIL	118.61	12.35	8000	4900		AT/ABOVE 14000
			NEVVR	119.09	06.03	8000	4200		AT/ABOVE 12000
			FORGT	119.17	06.71	8000	4200		AT/ABOVE 11000
			SEPII	119.25	05.00	8000	4000		AT/ABOVE 10000
			ALWYZ	119.32	04.89	8000	3400		AT/BELOW 10000



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ARRIVAL ROUTE DESCRIPTION:

LANDING KADW RWY 1L/R: FROM ALWYZ ON TRACK 125.19/10.47 TO CROSS LETZZ AT 8000, THEN ON TRACK 130.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS, THEN ON TRACK 130.89/10.39 TO VCTRY, THEN ON TRACK 188.50/8.10 TO HEROO, THEN ON TRACK 188.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KADW RWY 19L/R: FROM ALWYZ ON TRACK 121.66/6.88 TO CROSS FRDMM AT 8000 AND AT 240 KIAS, THEN ON TRACK 077.78/9.38 TO STAND. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KDCA RWY 1, 4, 33: FROM ALWYZ ON TRACK 125.19/10.47 TO CROSS LETZZ AT 8000, THEN ON TRACK 130.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS, THEN ON TRACK 130.89/10.39 TO VCTRY, THEN ON TRACK 188.50/8.10 TO HEROO, THEN ON TRACK 188.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KDCA RWY 15, 19, 22: FROM ALWYZ ON TRACK 121.66/6.88 TO CROSS FRDMM AT 8000 AND AT 240 KIAS, THEN ON TRACK 077.78/9.38 TO STAND, THEN ON TRACK 077.67/4.73 TO TGTHR, THEN ON TRACK 147.60/4.04 TO FERGI, THEN ON TRACK 147.60. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KDA: FROM ALWYZ ON TRACK 125.19/10.47 TO CROSS LETZZ AT 8000, THEN ON TRACK 130.06/7.78 TO CROSS RLLLL AT 6000 AND AT 250 KIAS, THEN ON TRACK 130.89/10.39 TO VCTRY, THEN ON TRACK 188.50/8.10 TO HEROO, THEN ON TRACK 188.50. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

NOTE: JET AIRCRAFT ONLY

NOTE: TURBOPROP AIRCRAFT AS ASSIGNED BY ATC ONLY.

NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF KDCA AVOID - SURFACE TO FL180.

NOTE: LANDING SOUTH AT DCA USE RUNWAY 19 TRANSITION, LANDING NORTH USE RUNWAY 1 TRANSITION. LANDING SOUTH AT ADW USE RUNWAY 19R TRANSITION, LANDING NORTH USE RUNWAY 1L TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM TRACON PRIOR TO FORGT.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT ALWYZ: HOLD NW, LT, 119.32 INBOUND, 6 NM LEGS, 210 KIAS.

CHART HOLDING AT FORGT: HOLD NW, LT, 119.17 INBOUND, 10 NM LEGS.

CHART HOLDING AT LUISE: HOLD NW, LT, 117.00 INBOUND, 10 NM LEGS.

CHART HOLDING AT PLDGE: HOLD W, LT, 108.16 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

CHART: POTOMAC APP CON

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
KDCA	WASHINGTON	DC
KDAA	FORT BELVOIR	VA
KADW	CAMP SPRINGS	MD

LOST COMMUNICATIONS PREFERENCES:



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REMARKS:

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
 MAG VAR: KDCA 11W/2020
 CHART: P-56B, P-56A
 CHART AT HEROO TERMINUS: KDCA LDG RWY 1,4,33.
 CHART AT FERGI TERMINUS: KDCA LDG RWY 15,19,22
 CHART AT STAND TERMINUS: KADW LDG RWY 19 L/R.
 CHART AT HEROO TERMINUS: KADW LDG RWY 1 L/R.
 CHART AT HEROO TERMINUS: LDG KDA.

FLIGHT INSPECTED BY:

ORGANIZATION: **DATE:**

STEPHEN BAUER

FPO 01/19/2024

Flight Inspected Signature:

Digitally signed by
ROBERT G HAMILTON

Jan 25, 2024

DEVELOPED BY:

Christopher Stockton (FAA); Adam Searcy (NATCA)

ESC PBN Co-Leads 12/19/2023

Developed By Signature:

Digitally signed by
ROBERT G HAMILTON

Jan 25, 2024

APPROVED BY:

Bev Bordy

AJV-A430

Approved By Signature:

Digitally signed by
ROBERT G HAMILTON

Jan 25, 2024

CHANGES:

1. REMOVED: LDA/ DME RWY 19, RNAV (RNP) 19, RIVER VISUAL RWY 19 FROM THE KDCA RWY 15,19 & 22 ARRIVAL ROUTE DESCRIPTION.
2. DELETED: MGW VOR/DME AND ASSOCIATED HOLDING PATTERN.
3. ADDED: LUISE AND ASSOCIATED TRANSITION WITH HOLDING AT LUISE.
4. CHANGED: KDA A ROUTING FROM RWY TRANSITION TO COMMON ROUTE.
5. CHANGED: ALL ENROUTE MEA VALUES TO 8000.
6. REMOVED: ALL MEA/MOCA VALUES FROM ARRIVAL DESCRIPTION.
7. CHANGED: TURBOJETS NOTE TO REFLECT JETS.
8. REFORMATTED THE DESCEND VIA NOTE FROM USING THE NUMERICAL VALUE TO THE WRITTEN NUMBER NAME.
9. CHANGED STAND FROM FLYOVER TO FLYBY FIX; REMOVED FM LEG FROM KADW RWY 19 L/R ARRIVAL ROUTE.
10. REMOVED RECOMMENDED NAVAID FROM 17.2 FORM.
11. REFORMATTED PROHIBITED NOTED FROM REFERECNING DCA TO KDCA.
12. REMOVED: 250 HOLDING ICONS AT FORGT AND PLDGE.

REASONS:

1. KDCA ROUNDTABLE REQUEST TO REDUCE NOISE.
2. VORMON, NAVAID SCHEDULED FOR DECOMMISSIONING.



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- 3. ATC REQUEST, MORE EFFICIENT FLOW FROM ADJACENT ATC FACILITY.
- 4. IAW 8260.3E, PARA 2-2-3.
- 5. PROVIDE ADDITIONAL DME COVERAGE.
- 6. NO LONGER REQUIRED ON COMMON ROUTES AND/OR RWY TRANSITIONS.
- 7. IAW CURRENT DOCUMENTATION STANDARDS.
- 8. CORRECTED FORMAT TO CLARIFY STAR NUMBER VERSUS CODING DUE TO PROCEDURE UP NUMBERING.
- 9. FIX USED ON MULTIPLE TRANSITIONS (CANNOT BE A FO ON KADW 19L/R).
- 10. NO LONGER DOCUMENTED.
- 11. TO DISTINGUISH ARPT VS NAVAID IDENT.
- 12. ATC REQUEST.

01/23/2024 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 12/19/2023

- 1. REMOVED NOTE MAINTAIN LAST ASSIGNED ALTITUDE UNTIL CLEARED TO "DESCEND VIA" THE FRDMM SIX. ARTCC WILL ISSUE LANDING DIRECTION ASSIGNMENT (NORTH OR SOUTH) AND POTOMAC TRACON WILL ISSUE RUNWAY ASSIGNMENTS.
- 2. ADDED NOTE LANDING SOUTH AT DCA USE RUNWAY 19 TRANSITION, LANDING NORTH USE RUNWAY 1 TRANSITION. LANDING SOUTH AT ADW USE RUNWAY 19R TRANSITION, LANDING NORTH USE RUNWAY 1L TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM TRACON PRIOR TO FORGT.

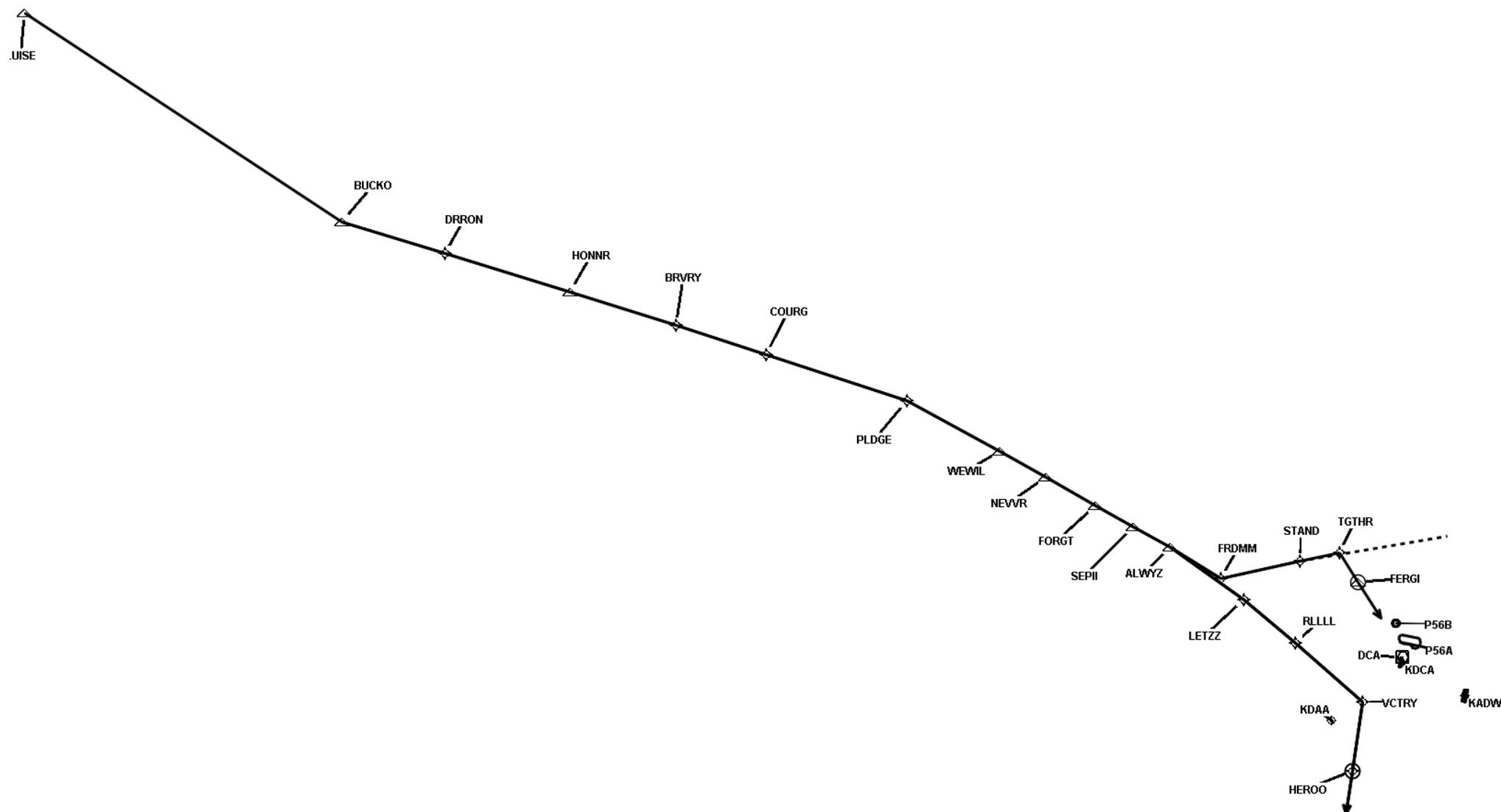


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Graphic Depiction 1

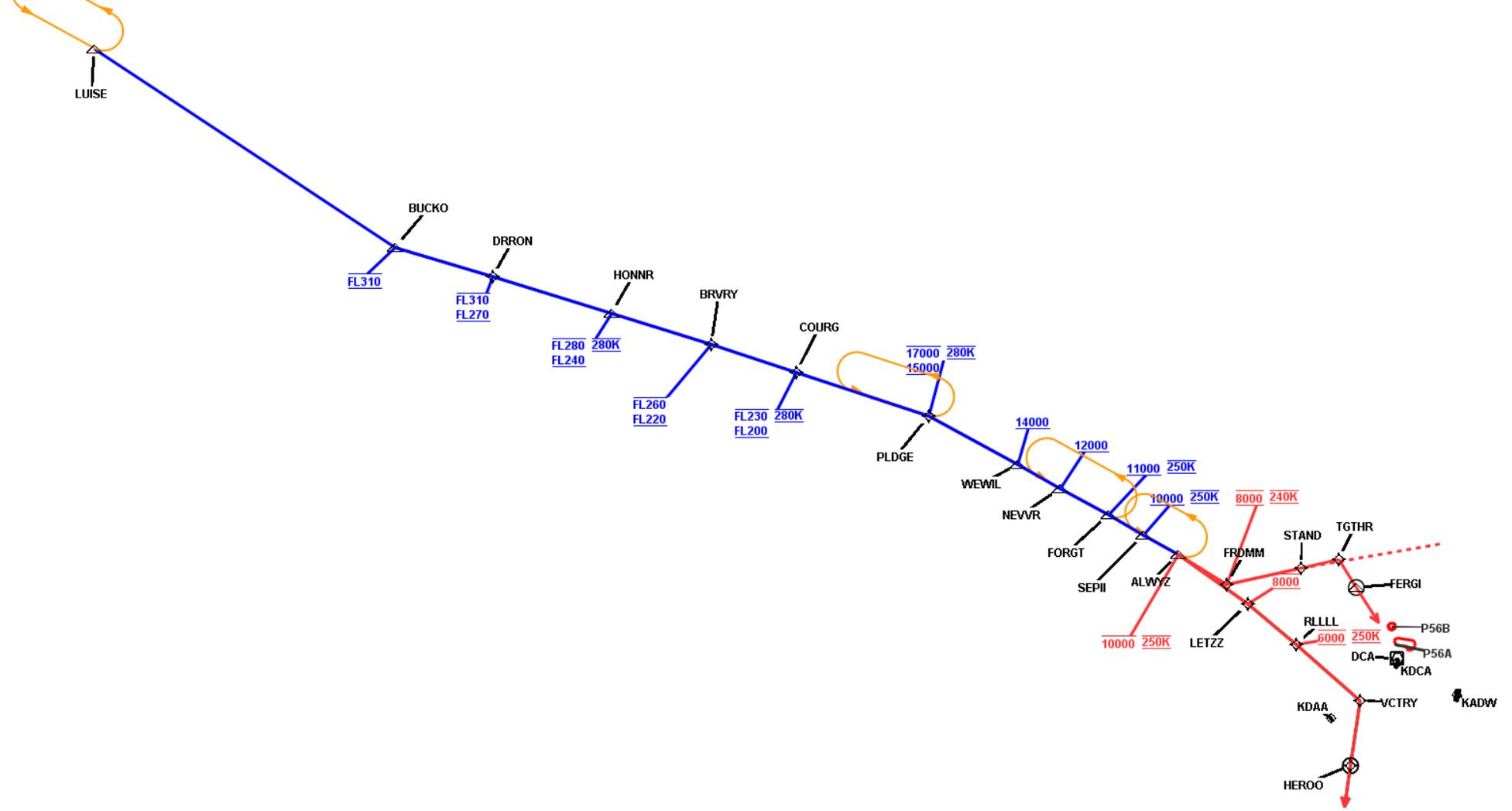


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Graphic Depiction 2

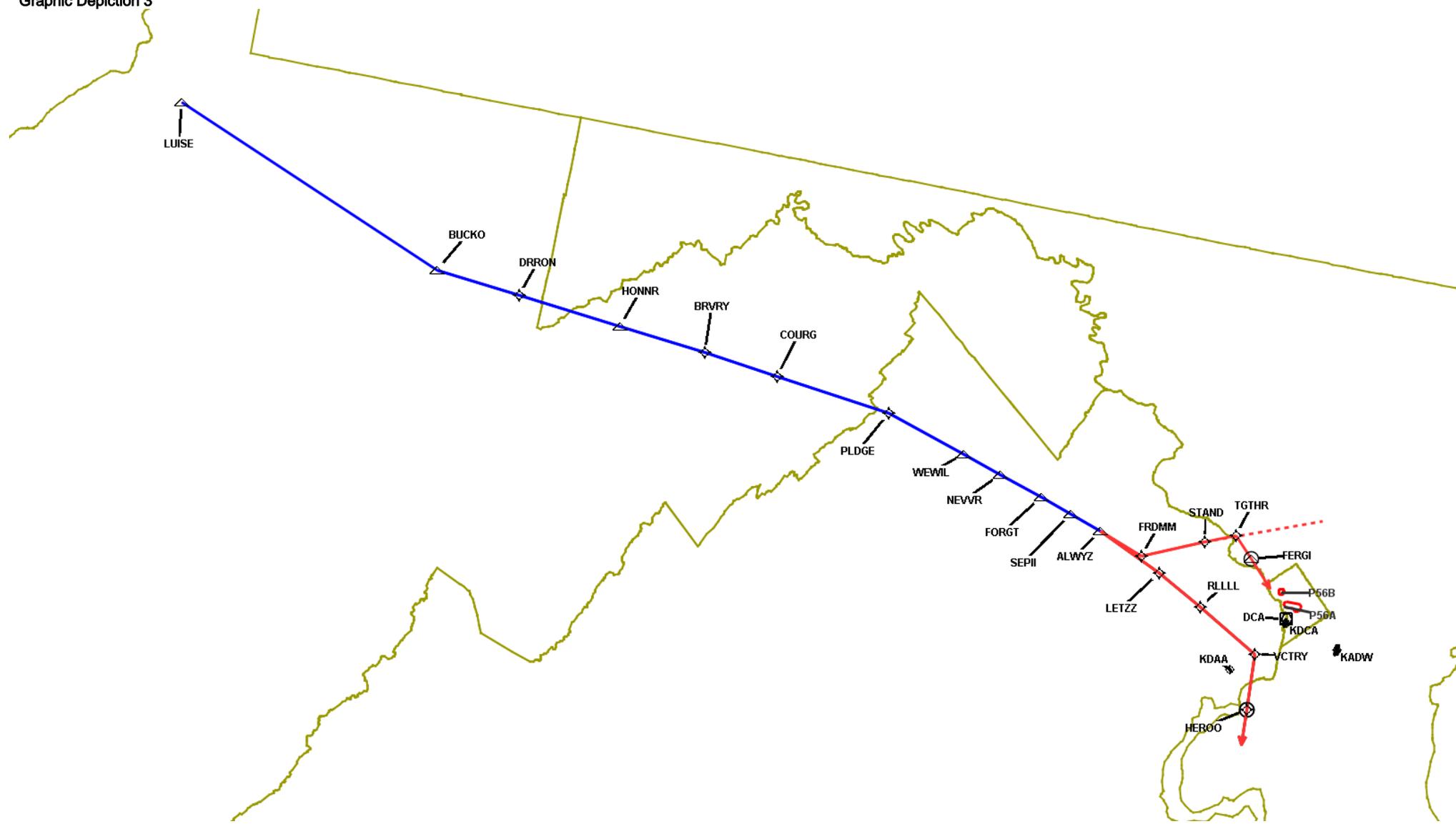


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Graphic Depiction 3



FEDERAL AVIATION ADMINISTRATION
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 STAR (DATA RECORD)

Arrival Name FRDMM (RNAV)	Number SIX	STAR Computer Code ALWYZ.FRDM6		Superseded Number FIVE		Dated 06/20/2019	Effective Date 16 MAY 2024		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
BUCKO	391737.82N / 0794930.10W	Y		IF			AT FL310		BUCKO.FRDM6
DRRON	391622.12N / 0793335.86W	Y	FB	TF	095.74	12.41	FL270BFL310		
HONNR	391446.59N / 0791408.91W	Y	FB	TF	095.91	15.19	FL240BFL280	AT 280K	
BRVRY	391322.68N / 0785747.18W	Y	FB	TF	096.19	12.79	FL220BFL260		
COURG	391201.14N / 0784344.52W	Y	FB	TF	097.02	11.00	FL200BFL230	AT 280K	
PLDGE	390951.33N / 0782158.72W	Y	FB	TF	097.16	17.06	15000B17000	AT 280K	
WEWIL	390605.98N / 0780651.76W	Y	FB	TF	107.61	12.35	AT/ABOVE 14000		
NEVVR	390413.29N / 0775930.17W	Y	FB	TF	108.09	06.03	AT/ABOVE 12000		
FORGT	390207.34N / 0775119.25W	Y	FB	TF	108.17	06.71	AT/ABOVE 11000	AT 250K	
SEPII	390033.12N / 0774513.74W	Y	FB	TF	108.25	05.00	AT/ABOVE 10000	AT 250K	
ALWYZ	385900.66N / 0773916.54W	Y	FB	TF	108.32	04.89	AT/BELOW 10000	AT 250K	
En Route Transition									
LUISE	393427.39N / 0804154.65W	Y		IF					LUISE.FRDM6
BUCKO	391737.82N / 0794930.10W	Y	FB	TF	112.21	43.95	AT FL310		
DRRON	391622.12N / 0793335.86W	Y	FB	TF	095.74	12.41	FL270BFL310		
HONNR	391446.59N / 0791408.91W	Y	FB	TF	095.91	15.19	FL240BFL280	AT 280K	
BRVRY	391322.68N / 0785747.18W	Y	FB	TF	096.19	12.79	FL220BFL260		
COURG	391201.14N / 0784344.52W	Y	FB	TF	097.02	11.00	FL200BFL230	AT 280K	
PLDGE	390951.33N / 0782158.72W	Y	FB	TF	097.16	17.06	15000B17000	AT 280K	
WEWIL	390605.98N / 0780651.76W	Y	FB	TF	107.61	12.35	AT/ABOVE 14000		
NEVVR	390413.29N / 0775930.17W	Y	FB	TF	108.09	06.03	AT/ABOVE 12000		
FORGT	390207.34N / 0775119.25W	Y	FB	TF	108.17	06.71	AT/ABOVE 11000	AT 250K	
SEPII	390033.12N / 0774513.74W	Y	FB	TF	108.25	05.00	AT/ABOVE 10000	AT 250K	
ALWYZ	385900.66N / 0773916.54W	Y	FB	TF	108.32	04.89	AT/BELOW 10000	AT 250K	
Common Route									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000	AT 250K	ALWYZ.FRDM6
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		



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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KDAA				FM	177.50				
Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000	AT 250K	
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KADW: RWY 1 L/R				FM	177.50				
Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000	AT 250K	
FRDMM	385634.54N / 0773101.39W	Y	FB	TF	110.66	06.88	AT 8000	AT 240K	
STAND	390016.17N / 0771957.84W	Y	FB	TF	066.78	09.38			
KADW: RWY 19 L/R									
Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000	AT 250K	
LETZZ	385442.36N / 0772702.40W	Y	FB	TF	114.19	10.47	AT 8000		
RLLLL	385055.11N / 0771820.23W	Y	FB	TF	119.06	07.78	AT 6000	AT 250K	
VCTRY	384543.63N / 0770649.28W	Y	FB	TF	119.89	10.39			
HEROO	383737.42N / 0770622.27W	Y	FO	TF	177.50	08.10			
KDCA: RWY 1, 4, 33				FM	177.50				
Runway Transition									
ALWYZ	385900.66N / 0773916.54W	Y		IF			AT/BELOW 10000	AT 250K	
FRDMM	385634.54N / 0773101.39W	Y	FB	TF	110.66	06.88	AT 8000	AT 240K	



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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>
STAND	390016.17N / 0771957.84W	Y	FB	TF	066.78	09.38			
TGTHR	390208.41N / 0771423.69W	Y	FB	TF	066.67	04.73			
FERGI	385912.16N / 0771050.18W	Y	FO	TF	136.60	04.04			
KDCA: RWY 15, 19, 22				FM	136.60				

