

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
KEESH	KEESH.ANTHM5	KEESH	KEESH						
			BUBBI	117.14	12.81	5000	5000		BETWEEN 15000 AND FL180
KEMAN	KEMAN.ANTHM5	KEMAN	KEMAN						
			BYNER	115.09	21.43	5500	5500		
			LUNDY	116.99	24.07	5500	5500		AT FL290
			CURBY	116.68	23.28	5500	5500		BETWEEN FL210 AND FL240
			KEESH	116.35	10.00	5000	5000		
			BUBBI	117.14	12.81	5000	5000		BETWEEN 15000 AND FL180
NUSMM	NUSMM.ANTHM5	NUSMM	NUSMM						
			KEMAN	116.93	37.26	5500	5500		
			BYNER	115.09	21.43	5500	5500		
			LUNDY	116.99	24.07	5500	5500		AT FL290
			CURBY	116.68	23.28	5500	5500		BETWEEN FL210 AND FL240
			KEESH	116.35	10.00	5000	5000		
			BUBBI	117.14	12.81	5000	5000		BETWEEN 15000 AND FL180

ARRIVAL ROUTE DESCRIPTION:

BWI: FROM BUBBI ON TRACK 100.94/8.00 TO CROSS SHEPH AT OR BELOW 15000, THEN ON TRACK 101.04/10.68 TO CROSS EAGLL BETWEEN 12000 AND 13000, THEN ON TRACK 101.68/17.30 TO ANTHM.

LANDING BWI RWY 10: FROM ANTHM ON TRACK 098.03/6.40 TO CROSS ROKTT AT 11000 AND AT 250 KIAS, THEN ON TRACK 098.00/16.50 TO CROSS FLAAG BETWEEN 6000 AND 7000, THEN ON TRACK 177.74/7.76 TO CROSS STARZ BETWEEN 4000 AND 5000 AND AT 210 KIAS, THEN ON TRACK 209.62/3.08 TO CROSS STRPS AT 4000 AND AT 210 KIAS, THEN ON TRACK 248.05/3.98 TO BRAYV, THEN ON TRACK 284.93/2.09 TO CROSS SPNGL AT 4000, THEN ON HEADING 284.93. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 15L/R: FROM ANTHM ON TRACK 085.00/6.40 TO CROSS ARYIA AT 11000 AND AT 250 KIAS, THEN ON HEADING 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 28: FROM ANTHM ON TRACK 103.88/13.84 TO CROSS JABRR AT 11000 AND AT 250 KIAS, THEN ON TRACK 104.07/15.39 TO CROSS OLBAY AT OR BELOW 9000 AND AT 250 KIAS, THEN ON TRACK 120.27/10.99 TO CROSS CRABZ BETWEEN 5000 AND 6000, THEN ON TRACK 159.51/5.69 TO CROSS FINNZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 143.36/3.37 TO CROSS ASHOR AT 4000, THEN ON TRACK 105.71/2.50 TO CROSS GRAMZ AT 4000, THEN ON TRACK 105.71. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 33L/R: FROM ANTHM ON TRACK 103.88/13.84 TO CROSS JABRR AT 11000 AND AT 250 KIAS, THEN ON TRACK 104.07/15.39 TO CROSS OLBAY AT OR BELOW 9000 AND AT 250 KIAS, THEN ON TRACK 120.27/10.99 TO CROSS CRABZ BETWEEN 5000 AND 6000, THEN ON TRACK 159.51/5.69 TO CROSS FINNZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 205.49/4.13 TO CROSS KEEYY AT 4000 AND AT 210 KIAS, THEN ON TRACK 204.09/5.04 TO CROSS ROAPS AT 4000, THEN ON TRACK 155.21/4.37 TO CROSS HOOK AT 4000, THEN ON TRACK 155.21. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING MTN: FROM BUBBI ON TRACK 100.94/8.00 TO CROSS SHEPH AT OR BELOW 15000, THEN ON TRACK 101.04/10.68 TO CROSS EAGLL BETWEEN 12000 AND 13000, THEN ON TRACK 101.68/17.30 TO ANTHM, THEN ON TRACK 103.88/13.84 TO CROSS JABRR AT 11000 AND AT 250 KIAS, THEN ON TRACK 104.07/15.39 TO CROSS OLBAY AT OR BELOW 9000 AND AT 250 KIAS, THEN ON TRACK 120.27/10.99 TO CROSS CRABZ BETWEEN 5000 AND 6000, THEN ON TRACK 159.51/5.69 TO CROSS FINNZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 160.00/5.00 TO CROSS RAAYY AT 4000, THEN ON TRACK 160.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

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ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**PROCEDURAL DATA NOTES:**

NOTE: JET AIRCRAFT ONLY

NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA AVOID SURFACE TO 18000 MSL.

NOTE: LANDING NORTH USE RUNWAY 33L TRANSITION, LANDING SOUTH USE RUNWAY 15R TRANSITION, LANDING EAST USE RUNWAY 10 TRANSITION, LANDING WEST USE RUNWAY 28 TRANSITION. EXPECT RUNWAY ASSIGNMENT FROM TRACON PRIOR TO ANTHM.

**FIXES AND/OR HOLDING PATTERNS:**

CHART HOLDING AT ANTHM: HOLD W, RT, 101.68 INBOUND, 5 NM LEGS.

CHART HOLDING AT BUBBI: HOLD NW, RT, 117.14 INBOUND, 10 NM LEGS.

CHART HOLDING AT BYNER: HOLD NW, RT, 115.09 INBOUND, 10 NM LEGS.

CHART HOLDING AT NUSMM: HOLD NW, LT, 116.93 INBOUND, 10 NM LEGS.

**COMMUNICATIONS:****AIRPORTS SERVED:**

AIRPORT ID	CITY	STATE
BWI	BALTIMORE	MD
MTN	BALTIMORE	MD

**LOST COMMUNICATIONS PREFERENCES:****REMARKS:**

THE ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.  
DO NOT CHART MOCA VALUES.

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: KBWI 11W/2000

CHART AT HOOK TERMINUS: KBWI LDG RWY 33 L/R

CHART AT GRAMZ TERMINUS: KBWI LDG RWY 28

CHART AT ARYA TERMINUS: KBWI LDG RWY 15 L/R

CHART AT SPNGL TERMINUS: KBWI LDG RWY 10

CHART AT RAAYY TERMINUS: LDG KMTN

CHART: P-56A, P-56B, R-4001A, R-4001B, R-4001C.

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ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024

**FLIGHT INSPECTED BY:**

DAVIN CHRISTOPHER OBRIEN

**ORGANIZATION:**

FPO

**DATE:**

11/13/2024

Flight Inspected Signature:

*Digitally signed by***ROBERT G HAMILTON**

Nov 15, 2024

**DEVELOPED BY:**

PHILLIP SMART (FAA)

AJV-A433

07/31/2024

Developed By Signature:

*Digitally signed by***ROBERT G HAMILTON**

Nov 15, 2024

**APPROVED BY:**

ROBERT HAMILTON (FAA)

AJV-A433

Approved By Signature:

*Digitally signed by***ROBERT G HAMILTON**

Nov 15, 2024

**CHANGES:**

1. ADDED: "AT 4000" CONSTRAINT AT ASHOR.
2. REMOVED: 210 KIAS CONSTRAINT AT GRAMZ.

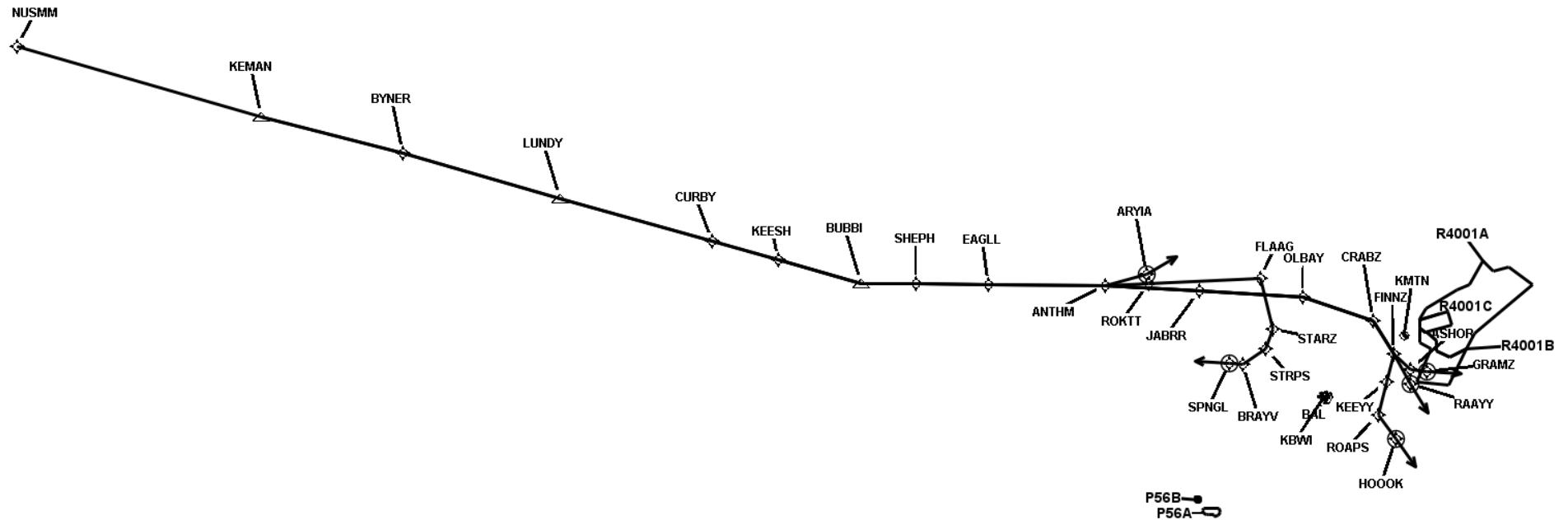
**REASONS:**

- 1-2. ATC REQUEST, ALIGNS WITH ACTUAL OPERATIONAL REQUIREMENTS AT BWI.

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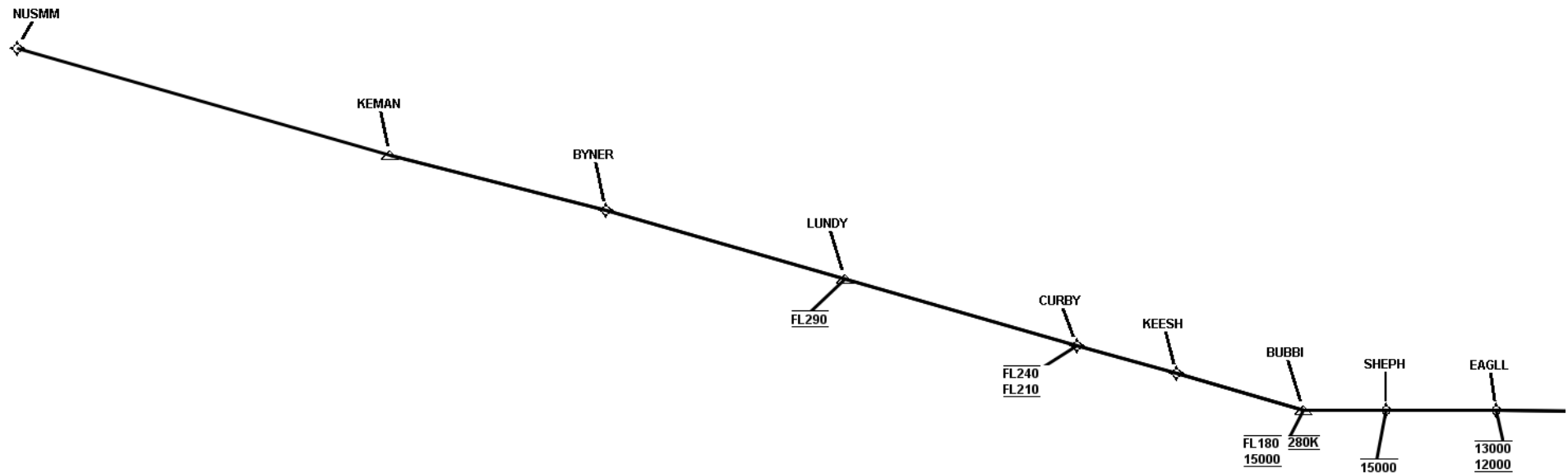
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024
Graphic Depiction 1					



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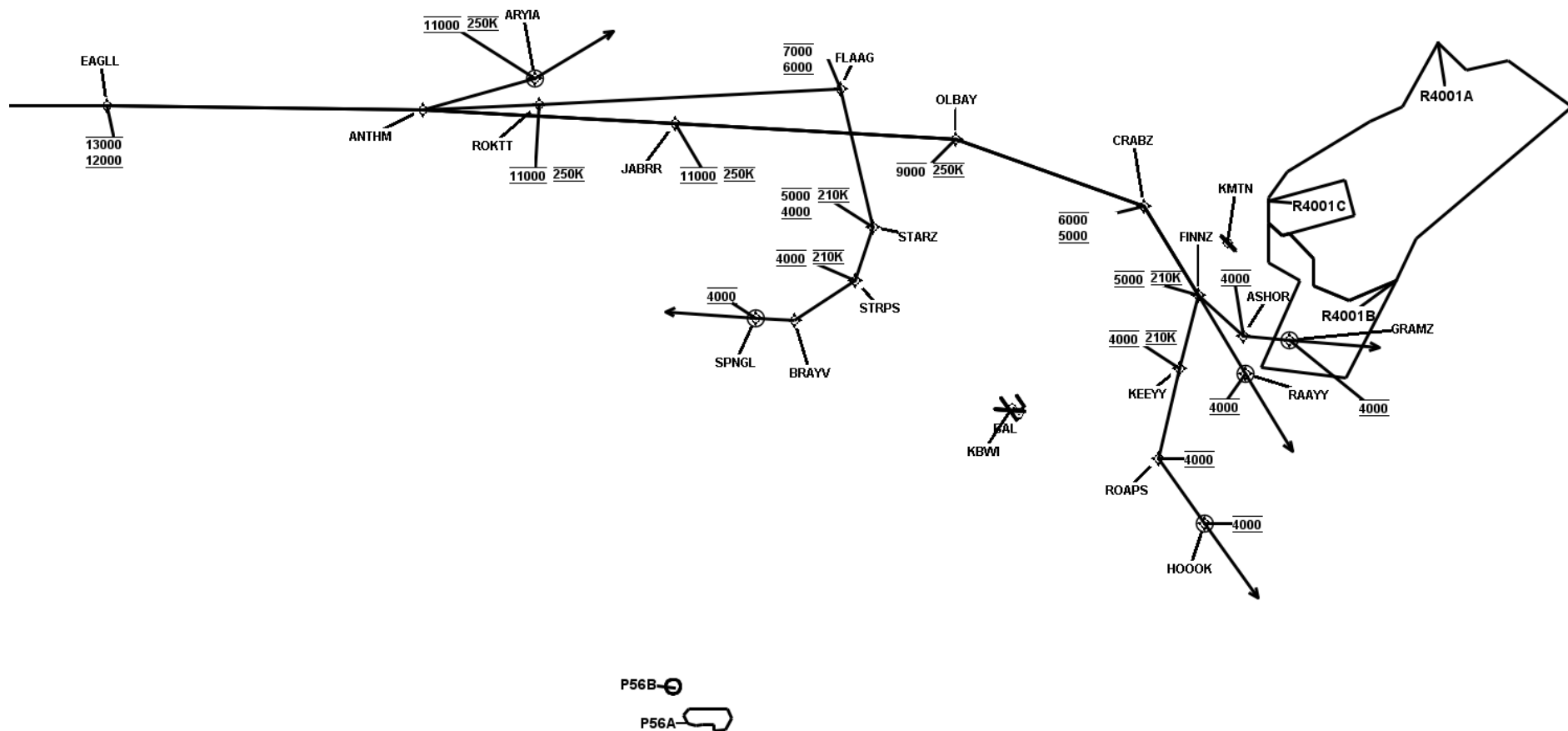
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024
Graphic Depiction 2					



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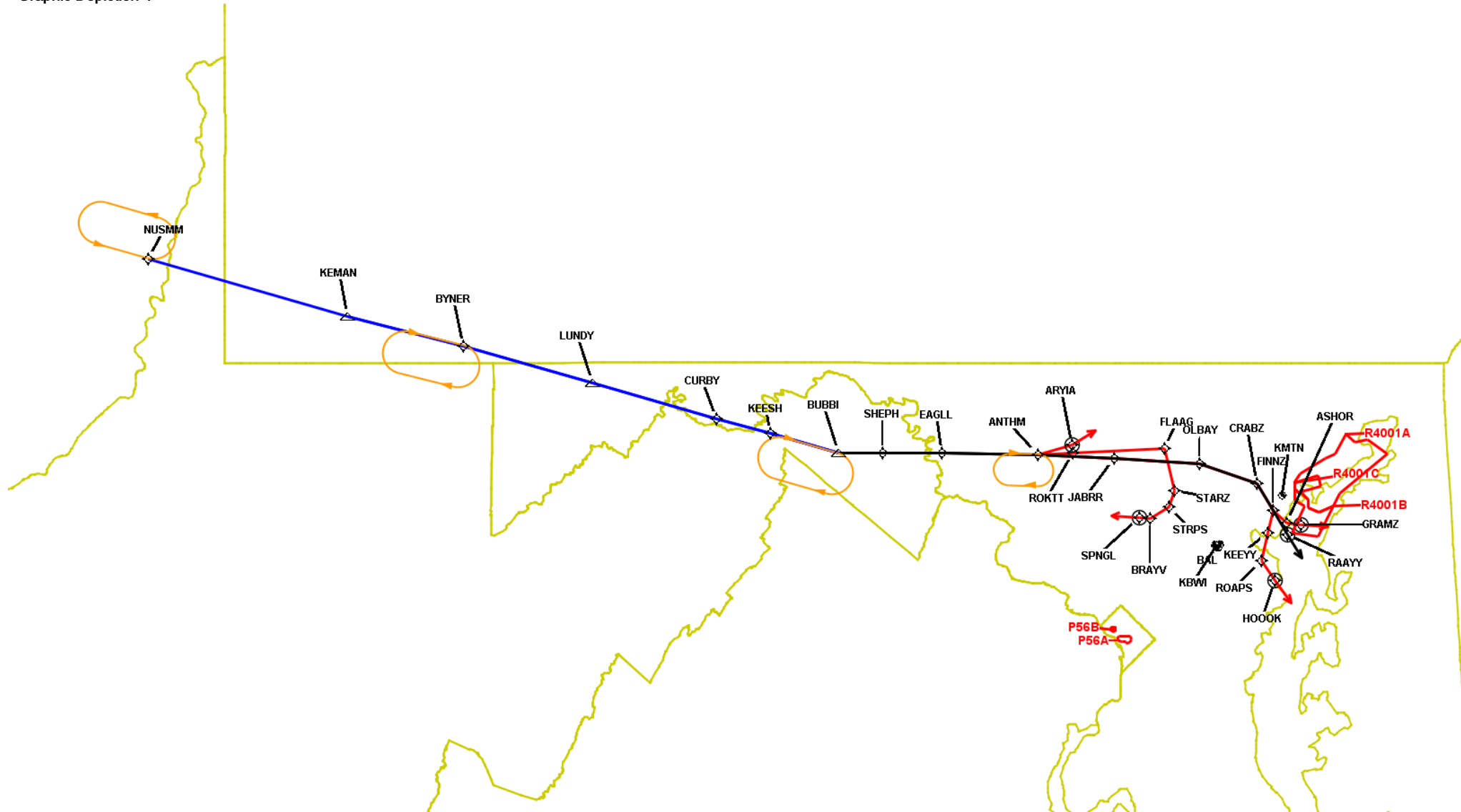
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024
Graphic Depiction 3					



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FIVE	BUBBI.ANTHM5	FOUR	09/05/2024	26 DEC 2024
Graphic Depiction 4					



FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)

Arrival Name ANTHM (RNAV)	Number FIVE	STAR Computer Code BUBBI.ANTHM5		Superseded Number FOUR		Dated 09/05/2024		Effective Date 26 DEC 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									
KEESH	393038.33N / 0782408.14W	Y		IF					KEESH.ANTHM5
BUBBI	392703.29N / 0780814.71W	Y	FB	TF	106.14	12.81	15000BFL180	AT 280K	
En Route Transition									
KEMAN	395137.81N / 0800230.15W	Y		IF					KEMAN.ANTHM5
BYNER	394621.42N / 0793532.46W	Y	FB	TF	104.09	21.43			
LUNDY	393939.40N / 0790534.57W	Y	FB	TF	105.99	24.07	AT FL290		
CURBY	393317.96N / 0783635.74W	Y	FB	TF	105.68	23.28	FL210BFL240		
KEESH	393038.33N / 0782408.14W	Y	FB	TF	105.35	10.00			
BUBBI	392703.29N / 0780814.71W	Y	FB	TF	106.14	12.81	15000BFL180	AT 280K	
En Route Transition									
NUSMM	400201.29N / 0804902.02W	Y		IF					NUSMM.ANTHM5
KEMAN	395137.81N / 0800230.15W	Y	FB	TF	105.93	37.26			
BYNER	394621.42N / 0793532.46W	Y	FB	TF	104.09	21.43			
LUNDY	393939.40N / 0790534.57W	Y	FB	TF	105.99	24.07	AT FL290		
CURBY	393317.96N / 0783635.74W	Y	FB	TF	105.68	23.28	FL210BFL240		
KEESH	393038.33N / 0782408.14W	Y	FB	TF	105.35	10.00			
BUBBI	392703.29N / 0780814.71W	Y	FB	TF	106.14	12.81	15000BFL180	AT 280K	
Common Route									
BUBBI	392703.29N / 0780814.71W	Y		IF			15000BFL180	AT 280K	BUBBI.ANTHM5
SHEPH	392703.31N / 0775755.05W	Y	FB	TF	089.94	08.00	AT/BELOW 15000		
EAGLL	392702.08N / 0774407.71W	Y	FB	TF	090.04	10.68	12000B13000		
ANTHM	392647.56N / 0772147.67W	Y	FB	TF	090.68	17.30			
Common Route									
BUBBI	392703.29N / 0780814.71W	Y		IF			15000BFL180	AT 280K	BUBBI.ANTHM5
SHEPH	392703.31N / 0775755.05W	Y	FB	TF	089.94	08.00	AT/BELOW 15000		



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STAR (DATA RECORD)

Arrival Name ANTHM (RNAV)	Number FIVE	STAR Computer Code BUBBI.ANTHM5		Superseded Number FOUR		Dated 09/05/2024	Effective Date 26 DEC 2024		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
EAGLL	392702.08N / 0774407.71W	Y	FB	TF	090.04	10.68	12000B13000		
ANTHM	392647.56N / 0772147.67W	Y	FB	TF	090.68	17.30			
JABRR	392604.46N / 0770357.57W	Y	FB	TF	092.88	13.84	AT 11000	AT 250K	
OLBAY	392513.32N / 0764407.76W	Y	FB	TF	093.07	15.39	AT/BELOW 9000	AT 250K	
CRABZ	392134.81N / 0763045.57W	Y	FB	TF	109.27	10.99	5000B6000		
FINNZ	391643.30N / 0762655.87W	Y	FB	TF	148.51	05.69	AT 5000	AT 210K	
RAAYY	391225.88N / 0762337.09W	Y	FO	TF	149.00	05.00	AT 4000		
KMTN				FM	149.00				
Runway Transition									
ANTHM	392647.56N / 0772147.67W	Y		IF					
ROKTT	392707.15N / 0771332.84W	Y	FB	TF	087.03	06.40	AT 11000	AT 250K	
FLAAG	392757.13N / 0765216.24W	Y	FB	TF	087.00	16.50	6000B7000		
STARZ	392023.71N / 0764958.65W	Y	FB	TF	166.74	07.76	4000B5000	AT 210K	
STRPS	391728.38N / 0765114.67W	Y	FB	TF	198.62	03.08	AT 4000	AT 210K	
BRAYV	391518.45N / 0765532.35W	Y	FB	TF	237.05	03.98			
SPNGL	391527.03N / 0765813.52W	Y	FO	TF	273.93	02.09	AT 4000		
KBWI:RWY 10				VM	273.93				
Runway Transition									
ANTHM	392647.56N / 0772147.67W	Y		IF					
ARYIA	392833.22N / 0771350.97W	Y	FO	TF	074.00	06.40	AT 11000	AT 250K	
KBWI:RWY 15L RWY 15R				VM	059.00				
Runway Transition									
ANTHM	392647.56N / 0772147.67W	Y		IF					
JABRR	392604.46N / 0770357.57W	Y	FB	TF	092.88	13.84	AT 11000	AT 250K	
OLBAY	392513.32N / 0764407.76W	Y	FB	TF	093.07	15.39	AT/BELOW 9000	AT 250K	
CRABZ	392134.81N / 0763045.57W	Y	FB	TF	109.27	10.99	5000B6000		

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STAR (DATA RECORD)

Arrival Name ANTHM (RNAV)		Number FIVE		STAR Computer Code BUBBI.ANTHM5		Superseded Number FOUR		Dated 09/05/2024	Effective Date 26 DEC 2024
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
FINNZ	391643.30N / 0762655.87W	Y	FB	TF	148.51	05.69	AT 5000	AT 210K	
ASHOR	391427.03N / 0762343.78W	Y	FB	TF	132.36	03.37	AT 4000		
GRAMZ	391414.65N / 0762031.37W	Y	FO	TF	094.71	02.50	AT 4000		
KBWI:RWY 28				FM	094.71				
Runway Transition									
ANTHM	392647.56N / 0772147.67W	Y		IF					
JABRR	392604.46N / 0770357.57W	Y	FB	TF	092.88	13.84	AT 11000	AT 250K	
OLBAY	392513.32N / 0764407.76W	Y	FB	TF	093.07	15.39	AT/BELOW 9000	AT 250K	
CRABZ	392134.81N / 0763045.57W	Y	FB	TF	109.27	10.99	5000B6000		
FINNZ	391643.30N / 0762655.87W	Y	FB	TF	148.51	05.69	AT 5000	AT 210K	
KEEYY	391243.16N / 0762815.62W	Y	FB	TF	194.49	04.13	AT 4000	AT 210K	
ROAPS	390748.10N / 0762943.72W	Y	FB	TF	193.09	05.04	AT 4000		
HOOK	390415.21N / 0762626.84W	Y	FO	TF	144.21	04.37	AT 4000		
KBWI:RWY 33L RWY 33R				FM	144.21				