

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>ANTHM (RNAV)</b>	<b>FOUR</b>	<b>BUBBI.ANTHM4</b>	<b>THREE</b>	<b>03/31/2016</b>	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
KEESH	KEESH.ANTHM4	KEESH	KEESH						
			BUBBI	117.14	12.81	5000	5000		BETWEEN 15000 AND FL180
KEMAN	KEMAN.ANTHM4	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.ANTHM4	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:

KBWI: 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 KBWI 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 105.71/2.50 TO CROSS SPNGL AT 4000, THEN ON HEADING 285.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI 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 KBWI 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 ASHOR, THEN ON TRACK 105.71/2.50 TO CROSS GRAMZ AT 4000 AND AT 210 KIAS, THEN ON TRACK 105.71. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING KBWI 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 KMTN: 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)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	

**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:**

CHART: POTOMAC APP CONN

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KBWI	BALTIMORE	MD
KMTN	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 RAAY TERMINUS: LDG KMTN

CHART: P56A, P56B, R4001A, R4001B, R4001C.

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<b>ANTHM (RNAV)</b>	<b>FOUR</b>	<b>BUBBI.ANTHM4</b>	<b>THREE</b>	<b>03/31/2016</b>	

**FLIGHT INSPECTED BY:**

MICHAEL G CAMPBELL

**ORGANIZATION:** **DATE:**

FPO

04/23/2024

Flight Inspected Signature:

*Digitally signed by*

**ALLAN WILL**

May 17, 2024

**DEVELOPED BY:**

Christopher Stocking (FAA); Adam Searcy (NATCA)

ESC PBN Co-Leads 02/28/2024

Developed By Signature:

*Digitally signed by*

**ALLAN WILL**

May 17, 2024

**APPROVED BY:**

ALLAN WILL (MANAGER)

AJV-A423

Approved By Signature:

*Digitally signed by*

**ALLAN WILL**

May 17, 2024

**CHANGES:**

1. MOVED: STRPS 4562 FT NE.
2. MOVED: STARZ 4098 FT NE.
3. ADDED: SPNGL WITH "AT 4000" CONSTRAINT TO RWY 10 TRANSITION.
4. MOVED: ASHOR 1.03 NM NE.
5. MOVED: GRAMZ 1.68 NM NW.
6. REMOVED: "OR AS ASSIGNED BY ATC" FROM RWY 10, 15L, 15R ARRIVAL ROUTE DESCRIPTION.
7. AMENDED: BWI RWY ARRIVAL DESCRIPTIONS: SEPARATED/AMENDED INSTRUCTIONS FOR RWY 10, 15L/R AND REMOVED OR AS ASSIGNED BY ATC.
8. ADDED: ARYIA WITH AN "AT 11000/250 KIAS" CONSTRAINT.
9. AMENDED: STARZ "AT 4000" CONSTRAINT TO "4000B5000/210 KIAS"
10. ADDED: "210 KIAS" CONSTRAINT AT FINNZ.
11. REMOVED: "AT 4000" CONSTRAINT AT ASHOR.
12. ADDED: "AT 4000/210 KIAS" CONSTRAINT AT GRAMZ.
13. ADDED: "AT 4000" CONSTRAINT AT ROAPS.
14. ADDED: "AT 4000" CONSTRAINT AT HOOK.
15. REMOVED MEA/MOCA VALUES FROM COMMON ROUTE/RWY TRANSITIONS
16. LOWERED ALL ENROUTE TRANSITION MEA VALUES.
17. REMOVED AIRPORT NAMES FROM AIRPORTS SERVED.
18. CHANGED TURBOJET NOTE TO REFLECT JETS.
19. REMOVED WP HOIST.

**REASONS:**

- 1-14. ATC REQUEST, PROVIDES MORE EFFICIENT ROUTING AND ALIGNS WITH ACTUAL OPERATIONAL REQUIREMENTS AT KBWI.
15. IAW 8260.19I
- 16 ATC REQUEST.
- 17-18. IAW 8260.19I.
19. ATC REQUEST.

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04/23/24: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 2/28/2024.

1. PROCEDURAL DATA NOTES: UPDATED "NOTE: ARTCC WILL ISSUE LANDING DIRECTION (EAST OR WEST). POTOMAC TRACON WILL ISSUE RWY ASSIGNMENT." TO "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." – ATC REQUEST.

2. ADDITIONAL FLIGHT DATA: REMOVED "CHART: CAUTION: UNMARKED AEROSTAT TETHERED TO CABLE WITHIN R-4001C UP TO 10000 MSL." – ATC REQUEST - DISMANTLED

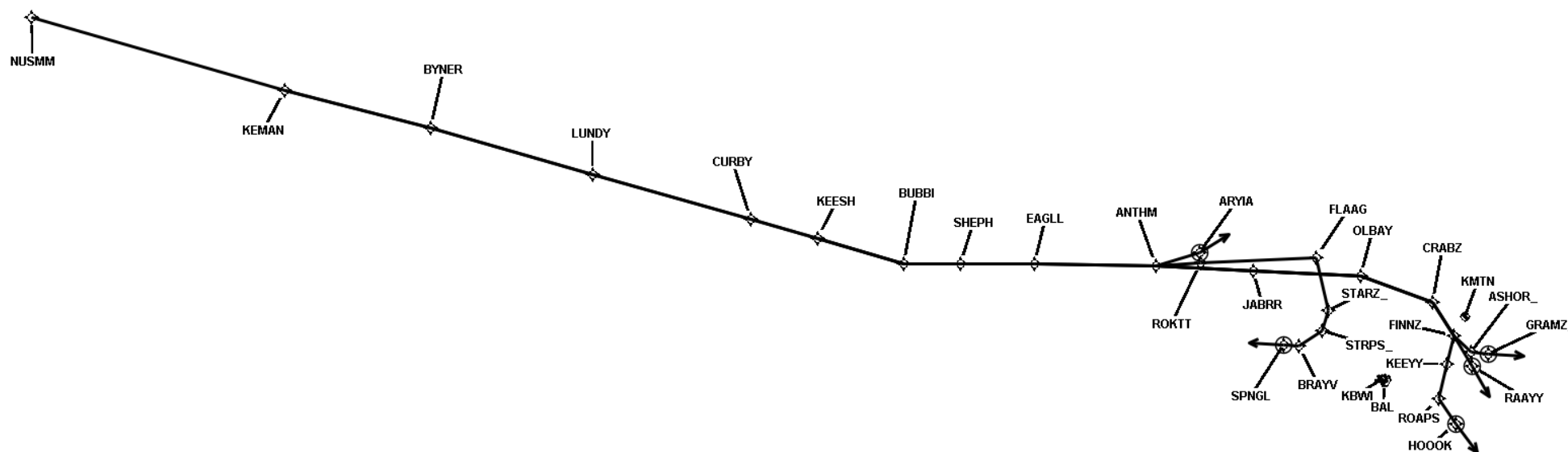
05/16/24: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/06/24.

1. ADDITIONAL FLIGHT DATA: CHANGED "CHART: P56A, P56B, R4001A, R4002B, R4001C." TO "CHART: P56A, P56B, R4001A, R4001B, R4001C." – CORRECTED SPELLING

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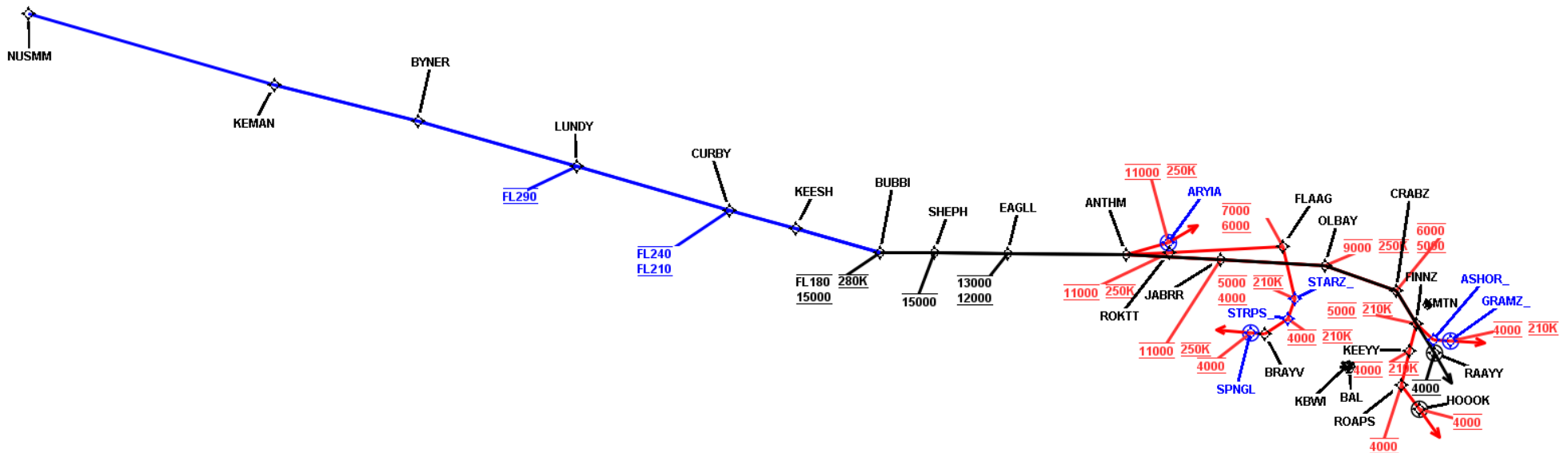
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ANTHM (RNAV)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	
Graphic Depiction 1					



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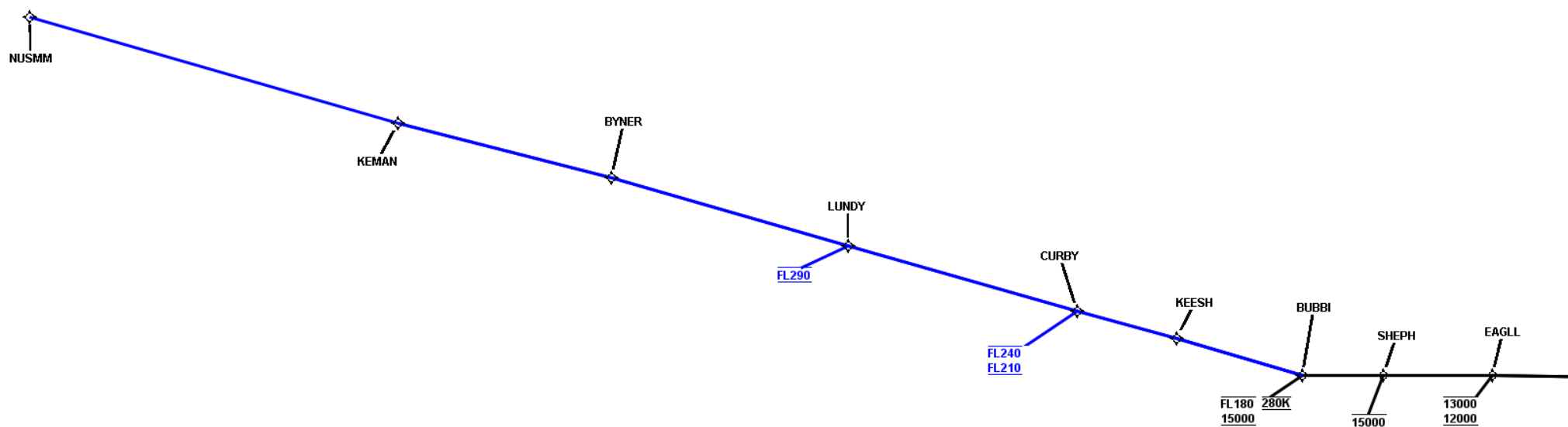
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	
Graphic Depiction 2					



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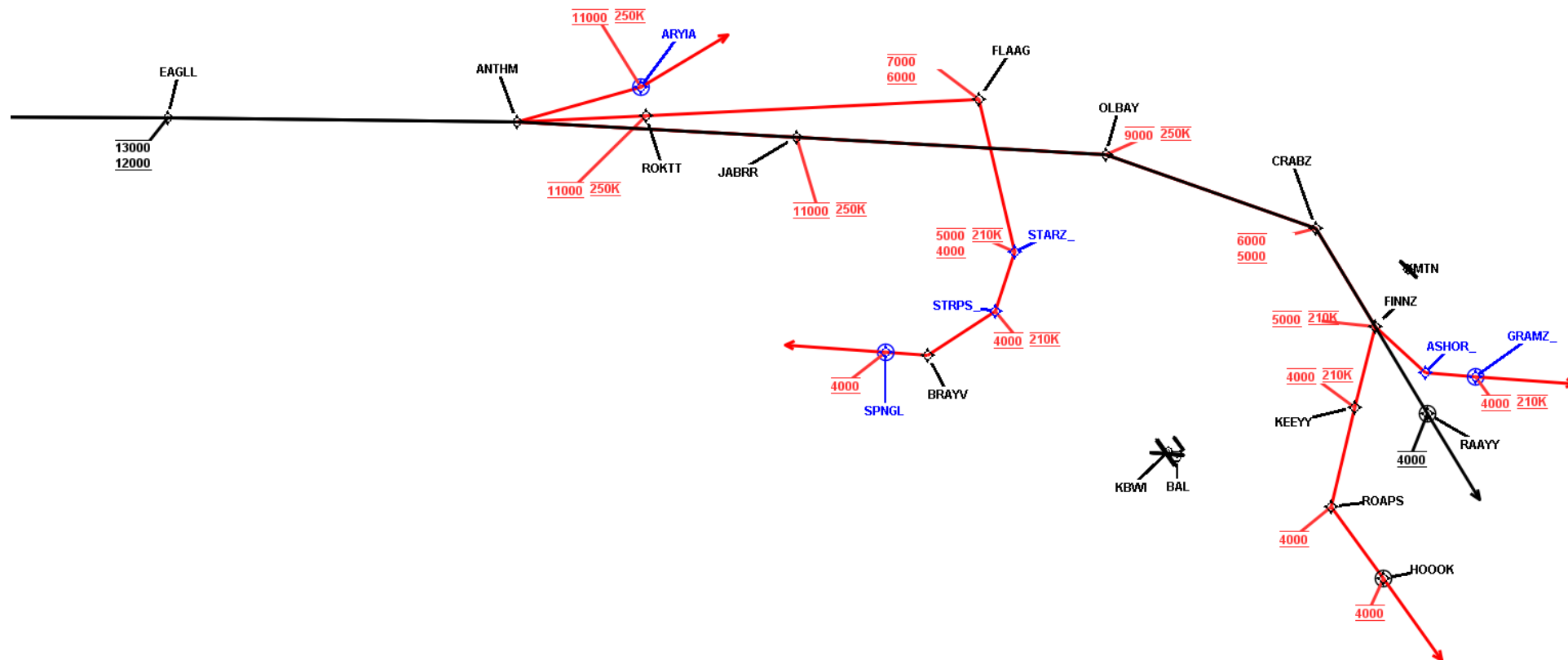
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	
Graphic Depiction 3					



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	
Graphic Depiction 4					

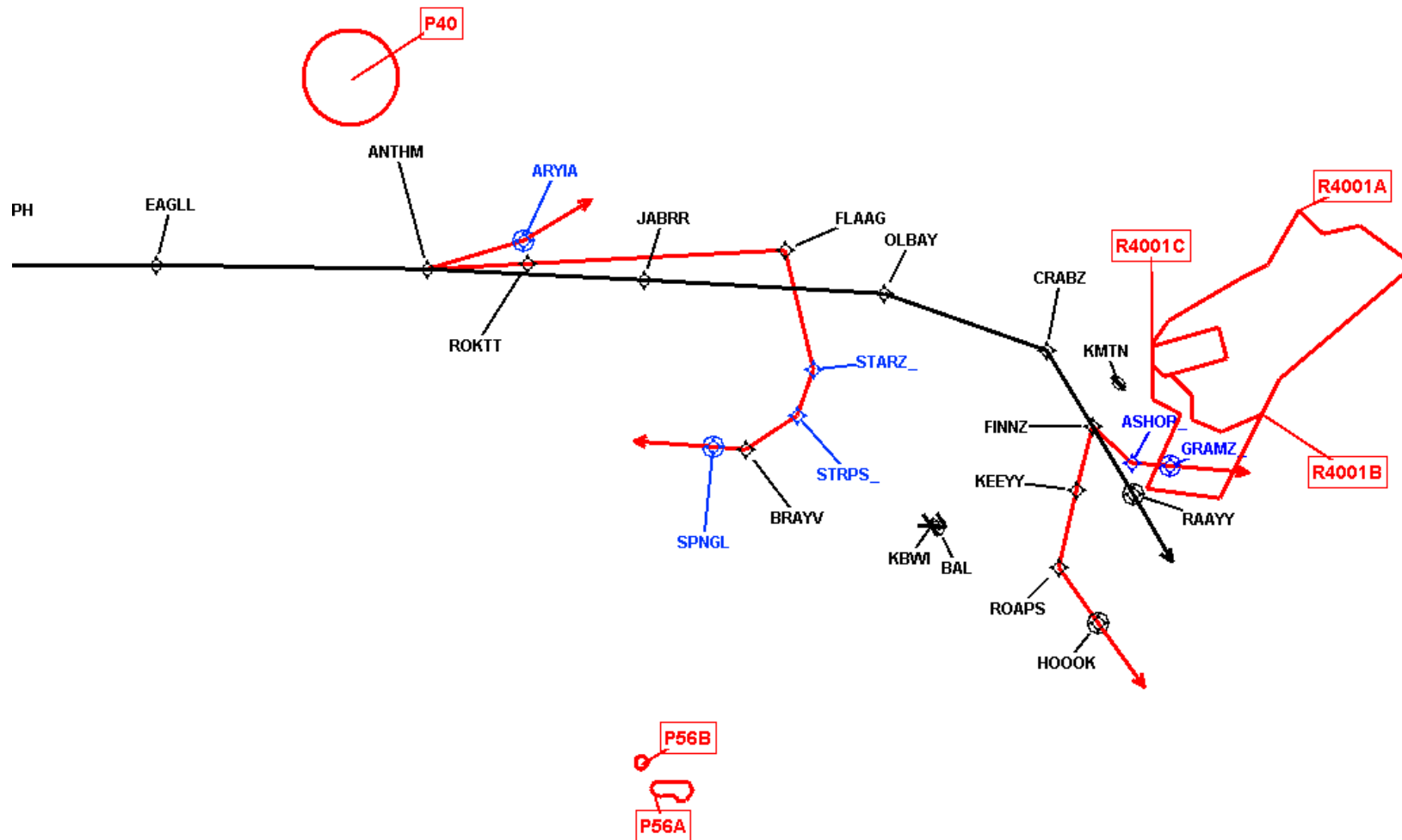




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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
ANTHM (RNAV)	FOUR	BUBBI.ANTHM4	THREE	03/31/2016	
Graphic Depiction 5					



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STAR (DATA RECORD)**

Arrival Name ANTHM (RNAV)		Number FOUR		STAR Computer Code BUBBI.ANTHM4		Superseded Number THREE		Dated 03/31/2016		Effective Date
<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.ANTHM4	
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.ANTHM4	
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.ANTHM4	
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.ANTHM4	
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.ANTHM4	
SHEPH	392703.31N / 0775755.05W	Y	FB	TF	089.94	08.00	AT/BELOW 15000			

**FEDERAL AVIATION ADMINISTRATION  
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STAR (DATA RECORD)**

Arrival Name ANTHM (RNAV)	Number FOUR	STAR Computer Code BUBBI.ANTHM4		Superseded Number THREE		Dated 03/31/2016	Effective Date		
<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>
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	274.00				
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)

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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>
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			
GRAMZ	391414.65N / 0762031.37W	Y	FO	TF	094.71	02.50	AT 4000	AT 210K	
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		
HOOOK	390415.21N / 0762626.84W	Y	FO	TF	144.21	04.37	AT 4000		
KBWI:RWY 33L RWY 33R				FM	144.21				