

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<br><b>RAVNN (RNAV)</b> | Number<br><b>EIGHT</b> | STAR Computer Code<br><b>CAPKO.RAVNN8</b> | Superseded Number<br><b>SEVEN</b> | Dated<br><b>09/05/2024</b> | Effective Date |
|-------------------------------------|------------------------|---|-----------------------------------|----------------------------|----------------|

TRANSITION ROUTES:

| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Course | Distance | MEA   | MOCA | MAA | Crossing Altitudes / Fixes |
|-----------------|---------------------------|-----------------|---------------|--------|----------|-------|------|-----|----------------------------|
| CACYE           | CACYE.RAVNN8              | CACYE           | CACYE         |        |          |       |      |     |                            |
|                 |                           |                 | TBART         | 105.38 | 65.39    | 17000 | 6900 |     |                            |
|                 |                           |                 | WYTEA         | 078.24 | 24.85    | 14000 | 6300 |     |                            |
|                 |                           |                 | YAAGR         | 078.54 | 05.00    | 10000 | 6300 |     | AT FL270                   |
|                 |                           |                 | AKELL         | 082.83 | 18.78    | 10000 | 6300 |     | AT/ABOVE FL240             |
|                 |                           |                 | CAASH         | 083.51 | 07.75    | 10000 | 5900 |     | AT/ABOVE FL220             |
|                 |                           |                 | ECHOZ         | 085.71 | 06.56    | 10000 | 3600 |     | AT/ABOVE FL200             |
|                 |                           |                 | DNKEY         | 085.66 | 09.96    | 10000 | 3400 |     | AT FL190                   |
|                 |                           |                 | FIMBO         | 096.57 | 22.65    | 10000 | 3000 |     | AT 16000                   |
|                 |                           |                 | UDUDE         | 096.78 | 06.52    | 10000 | 2100 |     | AT/ABOVE 13000             |
|                 |                           |                 | REXEE         | 096.89 | 07.45    | 10000 | 2100 |     | AT/ABOVE 12000             |
|                 |                           |                 | ELDEE         | 096.98 | 03.55    | 5000  | 2100 |     | AT/BELOW 11000             |
|                 |                           |                 | CAPKO         | 097.02 | 09.50    | 5000  | 2100 |     | AT 9000                    |
| CJAAE           | CJAAE.RAVNN8              | CJAAE           | CJAAE         |        |          |       |      |     |                            |
|                 |                           |                 | JOOEY         | 077.54 | 21.50    | 17000 | 6700 |     |                            |
|                 |                           |                 | TBART         | 077.80 | 36.90    | 17000 | 6700 |     |                            |
|                 |                           |                 | WYTEA         | 078.24 | 24.85    | 14000 | 6300 |     |                            |
|                 |                           |                 | YAAGR         | 078.54 | 05.00    | 10000 | 6300 |     | AT FL270                   |
|                 |                           |                 | AKELL         | 082.83 | 18.78    | 10000 | 6300 |     | AT/ABOVE FL240             |
|                 |                           |                 | CAASH         | 083.51 | 07.75    | 10000 | 5900 |     | AT/ABOVE FL220             |
|                 |                           |                 | ECHOZ         | 085.71 | 06.56    | 10000 | 3600 |     | AT/ABOVE FL200             |
|                 |                           |                 | DNKEY         | 085.66 | 09.96    | 10000 | 3400 |     | AT FL190                   |
|                 |                           |                 | FIMBO         | 096.57 | 22.65    | 10000 | 3000 |     | AT 16000                   |
|                 |                           |                 | UDUDE         | 096.78 | 06.52    | 10000 | 2100 |     | AT/ABOVE 13000             |
|                 |                           |                 | REXEE         | 096.89 | 07.45    | 10000 | 2100 |     | AT/ABOVE 12000             |
|                 |                           |                 | ELDEE         | 096.98 | 03.55    | 5000  | 2100 |     | AT/BELOW 11000             |
|                 |                           |                 | CAPKO         | 097.02 | 09.50    | 5000  | 2100 |     | AT 9000                    |



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|-----------------|---------------------------|-----------------|---------------|--------------------|-------------------|-------|------|------------|----------------------------|
| RAVNN (RNAV)    | EIGHT                     |                 |               | CAPKO.RAVNN8       | SEVEN             |       |      | 09/05/2024 |                            |
| Transition Name | Transition Computer Codes | From FIX/NAVAID | To FIX/NAVAID | Course             | Distance          | MEA   | MOCA | MAA        | Crossing Altitudes / Fixes |
| HBUDA           | HBUDA.RAVNN8              | HBUDA           | HBUDA         |                    |                   |       |      |            | AT/ABOVE FL250             |
|                 |                           |                 | JBAAY         | 036.91             | 14.84             | 12000 | 2600 |            | AT FL230                   |
|                 |                           |                 | TOOJM         | 037.32             | 12.11             | 9000  | 2100 |            | AT FL230                   |
|                 |                           |                 | ACROW         | 036.90             | 11.16             | 9000  | 2100 |            | AT/ABOVE FL210             |
|                 |                           |                 | DFORT         | 022.66             | 10.03             | 9000  | 2100 |            | AT/ABOVE FL180             |
|                 |                           |                 | WALKN         | 022.69             | 08.42             | 5000  | 2100 |            | BETWEEN 15000 AND 17000    |
|                 |                           |                 | JAYOH         | 045.95             | 13.48             | 5000  | 2100 |            | BETWEEN 11000 AND 12000    |
|                 |                           |                 | CAPKO         | 054.17             | 12.80             | 5000  | 2100 |            | AT 9000                    |
| JOEY            | JOEY.RAVNN8               | JOEY            | JOEY          |                    |                   |       |      |            |                            |
|                 |                           |                 | TBART         | 077.80             | 36.90             | 17000 | 6700 |            |                            |
|                 |                           |                 | WYTEA         | 078.24             | 24.85             | 14000 | 6300 |            |                            |
|                 |                           |                 | YAAGR         | 078.54             | 05.00             | 10000 | 6300 |            | AT FL270                   |
|                 |                           |                 | AKELL         | 082.83             | 18.78             | 10000 | 6300 |            | AT/ABOVE FL240             |
|                 |                           |                 | CAASH         | 083.51             | 07.75             | 10000 | 5900 |            | AT/ABOVE FL220             |
|                 |                           |                 | ECHOZ         | 085.71             | 06.56             | 10000 | 3600 |            | AT/ABOVE FL200             |
|                 |                           |                 | DNKEY         | 085.66             | 09.96             | 10000 | 3400 |            | AT FL190                   |
|                 |                           |                 | FIMBO         | 096.57             | 22.65             | 10000 | 3000 |            | AT 16000                   |
|                 |                           |                 | UDUDE         | 096.78             | 06.52             | 10000 | 2100 |            | AT/ABOVE 13000             |
|                 |                           |                 | REXEE         | 096.89             | 07.45             | 10000 | 2100 |            | AT/ABOVE 12000             |
|                 |                           |                 | ELDEE         | 096.98             | 03.55             | 5000  | 2100 |            | AT/BELOW 11000             |
|                 |                           |                 | CAPKO         | 097.02             | 09.50             | 5000  | 2100 |            | AT 9000                    |
| THHMP           | THHMP.RAVNN8              | THHMP           | THHMP         |                    |                   |       |      |            | AT/ABOVE FL250             |
|                 |                           |                 | FZEK          | 021.78             | 13.39             | 9000  | 2100 |            | AT FL230                   |
|                 |                           |                 | WHHTE         | 022.60             | 11.76             | 9000  | 2100 |            | AT FL230                   |
|                 |                           |                 | ACROW         | 022.63             | 09.87             | 9000  | 2100 |            | AT/ABOVE FL210             |
|                 |                           |                 | DFORT         | 022.66             | 10.03             | 9000  | 2100 |            | AT/ABOVE FL180             |



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| Arrival Name    | Number                    | STAR Computer Code | Superseded Number | Dated      | Effective Date |      |      |     |                            |
|-----------------|---------------------------|--------------------|-------------------|------------|----------------|------|------|-----|----------------------------|
| RAVNN (RNAV)    | EIGHT                     | CAPKO.RAVNN8       | SEVEN             | 09/05/2024 |                |      |      |     |                            |
| Transition Name | Transition Computer Codes | From FIX/NAVAID    | To FIX/NAVAID     | Course     | Distance       | MEA  | MOCA | MAA | Crossing Altitudes / Fixes |
|                 |                           |                    | WALKN             | 022.69     | 08.42          | 5000 | 2100 |     | BETWEEN 15000 AND 17000    |
|                 |                           |                    | JAYOH             | 045.95     | 13.48          | 5000 | 2100 |     | BETWEEN 11000 AND 12000    |
|                 |                           |                    | CAPKO             | 054.17     | 12.80          | 5000 | 2100 |     | AT 9000                    |

**ARRIVAL ROUTE DESCRIPTION:**

BWI: FROM CAPKO ON TRACK 071.89/9.00 TO CROSS RAVNN BETWEEN 6000 AND 7000.

LANDING BWI RWY 10: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 359.26/7.47 TO CROSS NAVAY AT 5000 AND AT 230 KIAS, THEN ON TRACK 310.87/7.40 TO CROSS ANCRP AT 4000 AND AT 210 KIAS, THEN ON TRACK 311.10/5.20 TO LURRL, THEN ON TRACK 299.92/2.80 TO HUNNN, THEN ON TRACK 299.92/2.00 TO CROSS HUTOO AT 4000, THEN ON TRACK 299.92. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 15L: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 033.41/11.82 TO CROSS BRRKE AT 4000, THEN ON TRACK 032.73/9.62 TO CROSS DRZTT AT 4000, THEN ON TRACK 337.71/11.27 TO DAAAX, THEN ON TRACK 301.22/9.56 TO CROSS DADLE AT 4000 AND AT 210 KIAS, THEN ON TRACK 333.97/2.58 TO CROSS RYJON AT 4000, THEN ON TRACK 335.19. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 15R: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 359.26/7.47 TO CROSS NAVAY AT 5000 AND AT 230 KIAS, THEN ON TRACK 310.87/7.40 TO CROSS ANCRP AT 4000 AND AT 210 KIAS, THEN ON TRACK 311.10/5.20 TO LURRL, THEN ON TRACK 299.92/2.80 TO HUNNN, THEN ON TRACK 003.04/11.49 TO CROSS ZARTZ AT 4000 AND AT 210 KIAS, THEN ON TRACK 337.70/2.00 TO CROSS ZOEYY AT 4000, THEN ON TRACK 337.70. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 28: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 020.11/9.27 TO CROSS TOGAH AT 5000 AND AT 210 KIAS, THEN ON TRACK 019.66/4.90 TO CROSS BMTTR AT 4000, THEN ON TRACK 105.57/3.00 TO CROSS FHRST AT 4000, THEN ON TRACK 105.57. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 33L: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 007.96/4.14 TO CROSS KOOLZ AT 5000 AND AT 210 KIAS, THEN ON TRACK 007.96. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BWI RWY 33R: FROM RAVNN ON TRACK 022.89/4.23 TO CROSS SEED BETWEEN 5000 AND 6000, THEN ON TRACK 025.78/10.27 TO CROSS DUDDS AT OR ABOVE 3000. EXPECT ILS OR LOC RWY 33R APPROACH.

LANDING MTN: FROM CAPKO ON TRACK 071.89/9.00 TO CROSS RAVNN BETWEEN 6000 AND 7000, THEN ON TRACK 071.99/5.00 TO CROSS MALXX AT 6000, THEN ON TRACK 072.05/8.12 TO CROSS AMRTN AT 5000, THEN ON HEADING 073.00. 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: ALL PART 91, 101, 103, 105, 125, 133, 135, AND 137 FLIGHT OPERATIONS ARE PROHIBITED ON THE CACYE/CJAAE/JOOEY TRANSITIONS.

NOTE: HBUDA TRANSITION, ATC ASSIGNED ONLY.

NOTE: JOOEY TRANSITION, ATC ASSIGNED ONLY.

**FIXES AND/OR HOLDING PATTERNS:**

CHART HOLDING AT ACROW: HOLD SW, LT, 022.63 INBOUND, 10 NM LEGS.

CHART HOLDING AT CAASH: HOLD W, LT, 083.51 INBOUND, 10 NM LEGS.

CHART HOLDING AT HBUDA: HOLD SW, RT, 030.33 INBOUND, 10 NM LEGS.

CHART HOLDING AT JAYOH: HOLD SW, LT, 045.95 INBOUND, 10 NM LEGS, 210 KIAS.

CHART HOLDING AT RAVNN: HOLD W, RT, 071.89 INBOUND, 5 NM LEGS, 210 KIAS.



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|---------------------|--------------|---------------------|-------------------|-------------------|----------------|
| <b>RAVNN (RNAV)</b> | <b>EIGHT</b> | <b>CAPKO.RAVNN8</b> | <b>SEVEN</b>      | <b>09/05/2024</b> |                |

CHART HOLDING AT TBART: HOLD W, LT, 077.54 INBOUND, 10 NM LEGS.  
 CHART HOLDING AT THHMP: HOLD S, LT, 013.11 INBOUND, 10 NM LEGS.  
 CHART DBOGG AS STANDALONE FIX.

**COMMUNICATIONS:**

**AIRPORTS SERVED:**

| <u>AIRPORT ID</u> | <u>CITY</u> | <u>STATE</u> |
|-------------------|-------------|--------------|
| 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.

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)  
 MAG VAR: BWI 11W/2000  
 CHART AT RYJON TERMINUS: BWI LDG RWY 15L  
 CHART AT ZOEYY TERMINUS: BWI LDG RWY 15R  
 CHART AT FHRST TERMINUS: BWI LDG RWY 28  
 CHART AT KOOLZ TERMINUS: BWI LDG RWY 33L  
 CHART AT HUTOO TERMINUS: BWI LDG RWY 10  
 CHART AT DUDDS TERMINUS: BWI LDG RWY 33R  
 CHART AT AMRTN TERMINUS: LDG MTN

**FLIGHT INSPECTED BY:**

**ORGANIZATION:**    **DATE:**

EDWARD W MESA

AJF                      01/15/2025

Flight Inspected Signature:

*Digitally signed by*

**ALLAN WILL**

Jan 16, 2025

*Digitally signed by*

**ALLAN WILL**

Jan 16, 2025

*Digitally signed by*

**ALLAN WILL**

Jan 16, 2025

**DEVELOPED BY:**

Christopher Stocking (FAA); Adam Searcy (NATCA)

ESC PBN Co-Leads 10/03/2024

Developed By Signature:

**APPROVED BY:**

ALLAN WILL (MANAGER)

AJV-A423

Approved By Signature:



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|--------------|--------|--------------------|-------------------|------------|----------------|
| RAVNN (RNAV) | EIGHT  | CAPKO.RAVNN8       | SEVEN             | 09/05/2024 |                |

**CHANGES:**

1. AMENDED CAYCE TRANSITION: ADDED WAYPOINT ELDEE, MEA 5000 WITH ALTITUDE RESTRICTION AOB 11000.
2. AMENDED CJAAE TRANSITION: ADDED WAYPOINT ELDEE, MEA 5000 WITH ALTITUDE RESTRICTION AOB 11000.
3. REMOVED ALL "K" FROM AIRPORT IDS.
4. UPDATED "CHART NOTE: DO NOT FILE HBUDA TRANSITION - TO BE ASSIGNED BY ATC." AND "CHART NOTE: DO NOT FILE JOOEY TRANSITION - TO BE ASSIGNED BY ATC." TO "NOTE: HBUDA TRANSITION, ATC ASSIGNED ONLY." AND "NOTE: JOOEY TRANSITION, ATC ASSIGNED ONLY."
5. REMOVED "CHART: POTOMAC APP CON"
6. UPDATED ZARTZ - ZOEYY COURSE FROM "337.71" TO "337.70"

**REASONS:**

- 1-2: ATC REQUEST, ELDEE WAS INADVERTENTLY OMITTED PREVIOUSLY.
3. 8260.19J 4-5-12(G)
4. 8260.19J 4-5-12(d)3
5. 8260.19J 4-5-12(F)
6. CURRENT EVALUATED COURSE.



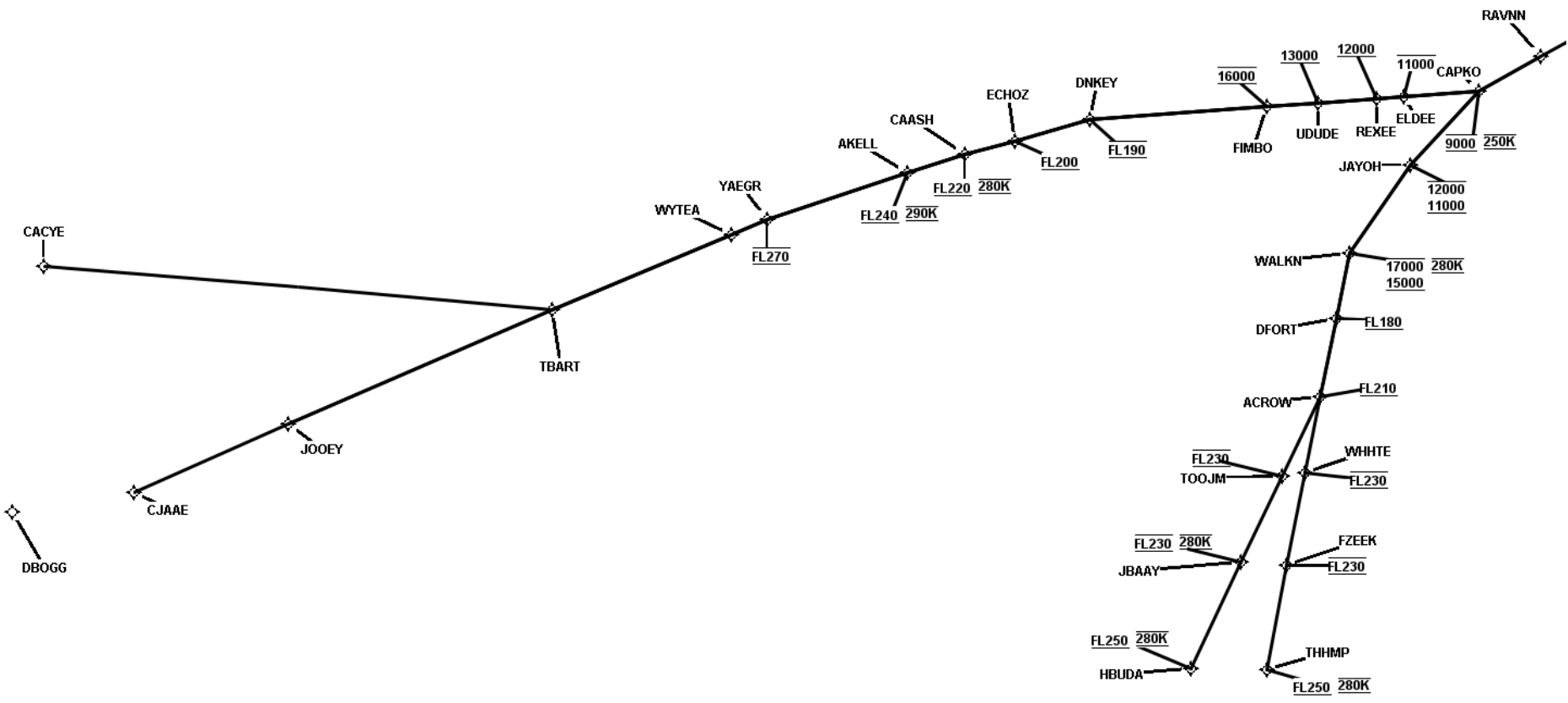


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| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated      | Effective Date |
|--------------|--------|--------------------|-------------------|------------|----------------|
| RAVNN (RNAV) | EIGHT  | CAPKO.RAVNN8       | SEVEN             | 09/05/2024 |                |

Graphic Depiction 2

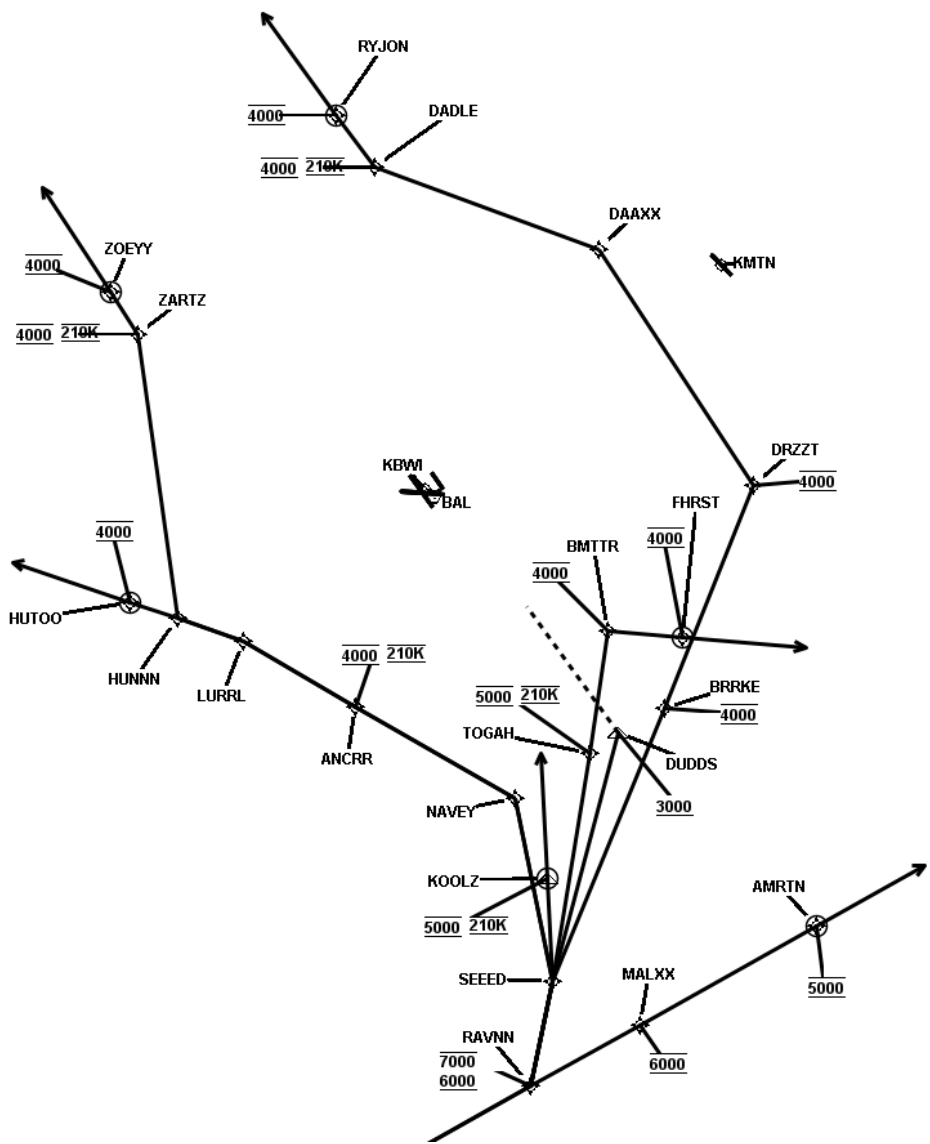


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| Arrival Name | Number | STAR Computer Code | Superseded Number | Dated      | Effective Date |
|--------------|--------|--------------------|-------------------|------------|----------------|
| RAVNN (RNAV) | EIGHT  | CAPKO.RAVNN8       | SEVEN             | 09/05/2024 |                |

Graphic Depiction 3







FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 STAR (DATA RECORD)

| Arrival Name<br>RAVNN (RNAV) | Number<br>EIGHT          | STAR Computer Code<br>CAPKO.RAVNN8 |       | Superseded Number<br>SEVEN |        | Dated<br>09/05/2024 | Effective Date |         |              |
|------------------------------|--------------------------|------------------------------------|-------|----------------------------|--------|---------------------|----------------|---------|--------------|
| FIX/NAVAID                   | LAT/LONG                 | C                                  | FO/FB | LEG<br>TYPE                | TC     | DIST<br>(NM)        | ALTITUDE       | SPEED   | REMARKS      |
| En Route Transition          |                          |                                    |       |                            |        |                     |                |         |              |
| CACYE                        | 382015.58N / 0803816.68W | Y                                  |       | IF                         |        |                     |                |         | CACYE.RAVNN8 |
| TBART                        | 381446.33N / 0791530.80W | Y                                  | FB    | TF                         | 094.38 | 65.39               |                |         |              |
| WYTEA                        | 382420.12N / 0784621.44W | Y                                  | FB    | TF                         | 067.24 | 24.85               |                |         |              |
| YAEGR                        | 382614.68N / 0784028.57W | Y                                  | FB    | TF                         | 067.54 | 05.00               | AT FL270       |         |              |
| AKELL                        | 383204.23N / 0781743.80W | Y                                  | FB    | TF                         | 071.83 | 18.78               | AT/ABOVE FL240 | AT 290K |              |
| CAASH                        | 383423.77N / 0780818.29W | Y                                  | FB    | TF                         | 072.51 | 07.75               | AT/ABOVE FL220 | AT 280K |              |
| ECHOZ                        | 383607.45N / 0780013.62W | Y                                  | FB    | TF                         | 074.71 | 06.56               | AT/ABOVE FL200 |         |              |
| DNKEY                        | 383845.05N / 0774758.01W | Y                                  | FB    | TF                         | 074.66 | 09.96               | AT FL190       |         |              |
| FIMBO                        | 384026.49N / 0771908.04W | Y                                  | FB    | TF                         | 085.57 | 22.65               | AT 16000       |         |              |
| UDUDE                        | 384055.04N / 0771049.81W | Y                                  | FB    | TF                         | 085.78 | 06.52               | AT/ABOVE 13000 |         |              |
| REXEE                        | 384126.70N / 0770120.49W | Y                                  | FB    | TF                         | 085.89 | 07.45               | AT/ABOVE 12000 |         |              |
| ELDEE                        | 384141.57N / 0765649.11W | Y                                  | FB    | TF                         | 085.98 | 03.55               | AT/BELOW 11000 |         |              |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  | FB    | TF                         | 086.02 | 09.50               | AT 9000        | AT 250K |              |
| En Route Transition          |                          |                                    |       |                            |        |                     |                |         |              |
| CJAAE                        | 375149.68N / 0802331.30W | Y                                  |       | IF                         |        |                     |                |         | CJAAE.RAVNN8 |
| JOEY                         | 380021.08N / 0795834.00W | Y                                  | FB    | TF                         | 066.54 | 21.50               |                |         |              |
| TBART                        | 381446.33N / 0791530.80W | Y                                  | FB    | TF                         | 066.80 | 36.90               |                |         |              |
| WYTEA                        | 382420.12N / 0784621.44W | Y                                  | FB    | TF                         | 067.24 | 24.85               |                |         |              |
| YAEGR                        | 382614.68N / 0784028.57W | Y                                  | FB    | TF                         | 067.54 | 05.00               | AT FL270       |         |              |
| AKELL                        | 383204.23N / 0781743.80W | Y                                  | FB    | TF                         | 071.83 | 18.78               | AT/ABOVE FL240 | AT 290K |              |
| CAASH                        | 383423.77N / 0780818.29W | Y                                  | FB    | TF                         | 072.51 | 07.75               | AT/ABOVE FL220 | AT 280K |              |
| ECHOZ                        | 383607.45N / 0780013.62W | Y                                  | FB    | TF                         | 074.71 | 06.56               | AT/ABOVE FL200 |         |              |
| DNKEY                        | 383845.05N / 0774758.01W | Y                                  | FB    | TF                         | 074.66 | 09.96               | AT FL190       |         |              |
| FIMBO                        | 384026.49N / 0771908.04W | Y                                  | FB    | TF                         | 085.57 | 22.65               | AT 16000       |         |              |
| UDUDE                        | 384055.04N / 0771049.81W | Y                                  | FB    | TF                         | 085.78 | 06.52               | AT/ABOVE 13000 |         |              |
| REXEE                        | 384126.70N / 0770120.49W | Y                                  | FB    | TF                         | 085.89 | 07.45               | AT/ABOVE 12000 |         |              |



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 STAR (DATA RECORD)

| Arrival Name<br>RAVNN (RNAV) | Number<br>EIGHT          | STAR Computer Code<br>CAPKO.RAVNN8 |       | Superseded Number<br>SEVEN |        | Dated<br>09/05/2024 | Effective Date |         |              |
|------------------------------|--------------------------|------------------------------------|-------|----------------------------|--------|---------------------|----------------|---------|--------------|
| FIX/NAVAID                   | LAT/LONG                 | C                                  | FO/FB | LEG<br>TYPE                | TC     | DIST<br>(NM)        | ALTITUDE       | SPEED   | REMARKS      |
| ELDEE                        | 384141.57N / 0765649.11W | Y                                  | FB    | TF                         | 085.98 | 03.55               | AT/BELOW 11000 |         |              |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  | FB    | TF                         | 086.02 | 09.50               | AT 9000        | AT 250K |              |
| En Route Transition          |                          |                                    |       |                            |        |                     |                |         |              |
| HBUDA                        | 372935.62N / 0773136.86W | Y                                  |       | IF                         |        |                     | AT/ABOVE FL250 | AT 280K | HBUDA.RAVNN8 |
| JBAAY                        | 374257.29N / 0772326.35W | Y                                  | FB    | TF                         | 025.91 | 14.84               | AT FL230       | AT 280K |              |
| TOOJM                        | 375348.97N / 0771639.40W | Y                                  | FB    | TF                         | 026.32 | 12.11               | AT FL230       |         |              |
| ACROW                        | 380351.93N / 0771028.98W | Y                                  | FB    | TF                         | 025.90 | 11.16               | AT/ABOVE FL210 |         |              |
| DFORT                        | 381341.68N / 0770754.66W | Y                                  | FB    | TF                         | 011.66 | 10.03               | AT/ABOVE FL180 |         |              |
| WALKN                        | 382156.95N / 0770544.54W | Y                                  | FB    | TF                         | 011.69 | 08.42               | 15000B17000    | AT 280K |              |
| JAYOH                        | 383300.31N / 0765553.86W | Y                                  | FB    | TF                         | 034.95 | 13.48               | 11000B12000    |         |              |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  | FB    | TF                         | 043.17 | 12.80               | AT 9000        | AT 250K |              |
| En Route Transition          |                          |                                    |       |                            |        |                     |                |         |              |
| JOOEY                        | 380021.08N / 0795834.00W | Y                                  |       | IF                         |        |                     |                |         | JOOEY.RAVNN8 |
| TBART                        | 381446.33N / 0791530.80W | Y                                  | FB    | TF                         | 066.80 | 36.90               |                |         |              |
| WYTEA                        | 382420.12N / 0784621.44W | Y                                  | FB    | TF                         | 067.24 | 24.85               |                |         |              |
| YAAGR                        | 382614.68N / 0784028.57W | Y                                  | FB    | TF                         | 067.54 | 05.00               | AT FL270       |         |              |
| AKELL                        | 383204.23N / 0781743.80W | Y                                  | FB    | TF                         | 071.83 | 18.78               | AT/ABOVE FL240 | AT 290K |              |
| CAASH                        | 383423.77N / 0780818.29W | Y                                  | FB    | TF                         | 072.51 | 07.75               | AT/ABOVE FL220 | AT 280K |              |
| ECHOZ                        | 383607.45N / 0780013.62W | Y                                  | FB    | TF                         | 074.71 | 06.56               | AT/ABOVE FL200 |         |              |
| DNKEY                        | 383845.05N / 0774758.01W | Y                                  | FB    | TF                         | 074.66 | 09.96               | AT FL190       |         |              |
| FIMBO                        | 384026.49N / 0771908.04W | Y                                  | FB    | TF                         | 085.57 | 22.65               | AT 16000       |         |              |
| UDUDE                        | 384055.04N / 0771049.81W | Y                                  | FB    | TF                         | 085.78 | 06.52               | AT/ABOVE 13000 |         |              |
| REXEE                        | 384126.70N / 0770120.49W | Y                                  | FB    | TF                         | 085.89 | 07.45               | AT/ABOVE 12000 |         |              |
| ELDEE                        | 384141.57N / 0765649.11W | Y                                  | FB    | TF                         | 085.98 | 03.55               | AT/BELOW 11000 |         |              |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  | FB    | TF                         | 086.02 | 09.50               | AT 9000        | AT 250K |              |
| En Route Transition          |                          |                                    |       |                            |        |                     |                |         |              |
| THHMP                        | 372929.47N / 0771908.75W | Y                                  |       | IF                         |        |                     | AT/ABOVE FL250 | AT 280K | THHMP.RAVNN8 |



FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 STAR (DATA RECORD)

| Arrival Name<br>RAVNN (RNAV) | Number<br>EIGHT          | STAR Computer Code<br>CAPKO.RAVNN8 |              | Superseded Number<br>SEVEN | Dated<br>09/05/2024 | Effective Date       |                 |              |                |
|------------------------------|--------------------------|------------------------------------|--------------|----------------------------|---------------------|----------------------|-----------------|--------------|----------------|
| <u>FIX/NAVAID</u>            | <u>LAT/LONG</u>          | <u>C</u>                           | <u>FO/FB</u> | <u>LEG<br/>TYPE</u>        | <u>TC</u>           | <u>DIST<br/>(NM)</u> | <u>ALTITUDE</u> | <u>SPEED</u> | <u>REMARKS</u> |
| FZEEK                        | 374239.52N / 0771559.43W | Y                                  | FB           | TF                         | 010.78              | 13.39                | AT FL230        |              |                |
| WHHTE                        | 375411.42N / 0771300.13W | Y                                  | FB           | TF                         | 011.60              | 11.76                | AT FL230        |              |                |
| ACROW                        | 380351.93N / 0771028.98W | Y                                  | FB           | TF                         | 011.63              | 09.87                | AT/ABOVE FL210  |              |                |
| DFORT                        | 381341.68N / 0770754.66W | Y                                  | FB           | TF                         | 011.66              | 10.03                | AT/ABOVE FL180  |              |                |
| WALKN                        | 382156.95N / 0770544.54W | Y                                  | FB           | TF                         | 011.69              | 08.42                | 15000B17000     | AT 280K      |                |
| JAYOH                        | 383300.31N / 0765553.86W | Y                                  | FB           | TF                         | 034.95              | 13.48                | 11000B12000     |              |                |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  | FB           | TF                         | 043.17              | 12.80                | AT 9000         | AT 250K      |                |
| Common Route                 |                          |                                    |              |                            |                     |                      |                 |              |                |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  |              | IF                         |                     |                      | AT 9000         | AT 250K      | CAPKO.RAVNN8   |
| RAVNN                        | 384643.06N / 0763439.23W | Y                                  | FB           | TF                         | 060.89              | 09.00                | 6000B7000       |              |                |
| Common Route                 |                          |                                    |              |                            |                     |                      |                 |              |                |
| CAPKO                        | 384220.52N / 0764442.54W | Y                                  |              | IF                         |                     |                      | AT 9000         | AT 250K      | CAPKO.RAVNN8   |
| RAVNN                        | 384643.06N / 0763439.23W | Y                                  | FB           | TF                         | 060.89              | 09.00                | 6000B7000       |              |                |
| MALXX                        | 384908.54N / 0762903.53W | Y                                  | FB           | TF                         | 060.99              | 05.00                | AT 6000         |              |                |
| AMRTN                        | 385304.27N / 0761957.55W | Y                                  | FO           | TF                         | 061.05              | 08.12                | AT 5000         |              |                |
| KMTN                         |                          |                                    |              | VM                         | 061.05              |                      |                 |              |                |
| Runway Transition            |                          |                                    |              |                            |                     |                      |                 |              |                |
| RAVNN                        | 384643.06N / 0763439.23W | Y                                  |              | IF                         |                     |                      | 6000B7000       |              |                |
| SEED                         | 385051.66N / 0763332.32W | Y                                  | FB           | TF                         | 011.89              | 04.23                | 5000B6000       |              |                |
| NAVEY                        | 385810.99N / 0763529.26W | Y                                  | FB           | TF                         | 348.26              | 07.47                | AT 5000         | AT 230K      |                |
| ANCRR                        | 390152.15N / 0764343.60W | Y                                  | FB           | TF                         | 299.87              | 07.40                | AT 4000         | AT 210K      |                |
| LURRL                        | 390428.63N / 0764930.23W | Y                                  | FB           | TF                         | 300.10              | 05.20                |                 |              |                |
| HUNNN                        | 390523.10N / 0765254.35W | Y                                  | FB           | TF                         | 288.92              | 02.80                |                 |              |                |
| HUTOO                        | 390602.02N / 0765520.17W | Y                                  | FO           | TF                         | 288.92              | 02.00                | AT 4000         |              |                |
| KBWI:RWY 10                  |                          |                                    |              | FM                         | 288.92              |                      |                 |              |                |



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

| Arrival Name<br>RAVNN (RNAV) | Number<br>EIGHT | STAR Computer Code<br>CAPKO.RAVNN8 | Superseded Number<br>SEVEN | Dated<br>09/05/2024 | Effective Date |
|------------------------------|-----------------|------------------------------------|----------------------------|---------------------|----------------|
|------------------------------|-----------------|------------------------------------|----------------------------|---------------------|----------------|

| FIX/NAVAID        | LAT/LONG                 | C | FO/FB | LEG<br>TYPE | TC     | DIST<br>(NM) | ALTITUDE  | SPEED   | REMARKS |
|-------------------|--------------------------|---|-------|-------------|--------|--------------|-----------|---------|---------|
| Runway Transition |                          |   |       |             |        |              |           |         |         |
| RAVNN             | 384643.06N / 0763439.23W | Y |       | IF          |        |              | 6000B7000 |         |         |
| SEED              | 385051.66N / 0763332.32W | Y | FB    | TF          | 011.89 | 04.23        | 5000B6000 |         |         |
| BRRKE             | 390147.79N / 0762745.34W | Y | FB    | TF          | 022.41 | 11.82        | AT 4000   |         |         |
| DRZZT             | 391044.40N / 0762310.52W | Y | FB    | TF          | 021.73 | 09.62        | AT 4000   |         |         |
| DAAXX             | 392009.94N / 0763109.03W | Y | FB    | TF          | 326.71 | 11.27        |           |         |         |
| DADLE             | 392327.88N / 0764243.50W | Y | FB    | TF          | 290.22 | 09.56        | AT 4000   | AT 210K |         |
| RYJON             | 392531.57N / 0764443.81W | Y | FO    | TF          | 322.97 | 02.58        | AT 4000   |         |         |
| KBWI:RWY 15L      |                          |   |       | FM          | 324.20 |              |           |         |         |

|                   |                          |   |    |    |        |       |           |         |  |
|-------------------|--------------------------|---|----|----|--------|-------|-----------|---------|--|
| Runway Transition |                          |   |    |    |        |       |           |         |  |
| RAVNN             | 384643.06N / 0763439.23W | Y |    | IF |        |       | 6000B7000 |         |  |
| SEED              | 385051.66N / 0763332.32W | Y | FB | TF | 011.89 | 04.23 | 5000B6000 |         |  |
| NAVEY             | 385810.99N / 0763529.26W | Y | FB | TF | 348.26 | 07.47 | AT 5000   | AT 230K |  |
| ANCRR             | 390152.15N / 0764343.60W | Y | FB | TF | 299.87 | 07.40 | AT 4000   | AT 210K |  |
| LURRL             | 390428.63N / 0764930.23W | Y | FB | TF | 300.10 | 05.20 |           |         |  |
| HUNNN             | 390523.10N / 0765254.35W | Y | FB | TF | 288.92 | 02.80 |           |         |  |
| ZARTZ             | 391646.19N / 0765457.24W | Y | FB | TF | 352.04 | 11.49 | AT 4000   | AT 210K |  |
| ZOEYY             | 391826.57N / 0765622.11W | Y | FO | TF | 326.70 | 02.00 | AT 4000   |         |  |
| KBWI:RWY 15R      |                          |   |    | FM | 326.70 |       |           |         |  |

|                   |                          |   |    |    |        |       |           |         |  |
|-------------------|--------------------------|---|----|----|--------|-------|-----------|---------|--|
| Runway Transition |                          |   |    |    |        |       |           |         |  |
| RAVNN             | 384643.06N / 0763439.23W | Y |    | IF |        |       | 6000B7000 |         |  |
| SEED              | 385051.66N / 0763332.32W | Y | FB | TF | 011.89 | 04.23 | 5000B6000 |         |  |
| TOGAH             | 390001.29N / 0763139.42W | Y | FB | TF | 009.11 | 09.27 | AT 5000   | AT 210K |  |
| BMTTR             | 390452.21N / 0763042.59W | Y | FB | TF | 008.66 | 04.90 | AT 4000   |         |  |
| FHRST             | 390437.80N / 0762652.18W | Y | FO | TF | 094.57 | 03.00 | AT 4000   |         |  |
| KBWI:RWY 28       |                          |   |    | FM | 094.57 |       |           |         |  |



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

| Arrival Name<br>RAVNN (RNAV) | Number<br>EIGHT          | STAR Computer Code<br>CAPKO.RAVNN8 |              | Superseded Number<br>SEVEN | Dated<br>09/05/2024 | 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> |
| Runway Transition            |                          |                                    |              |                            |                     |                  |                 |              |                |
| RAVNN                        | 384643.06N / 0763439.23W | Y                                  |              | IF                         |                     |                  | 6000B7000       |              |                |
| SEED                         | 385051.66N / 0763332.32W | Y                                  | FB           | TF                         | 011.89              | 04.23            | 5000B6000       |              |                |
| KOOLZ                        | 385459.78N / 0763349.20W | Y                                  | FO           | TF                         | 356.96              | 04.14            | AT 5000         | AT 210K      |                |
| KBWI:RWY 33L                 |                          |                                    |              | FM                         | 356.96              |                  |                 |              |                |
| Runway Transition            |                          |                                    |              |                            |                     |                  |                 |              |                |
| RAVNN                        | 384643.06N / 0763439.23W | Y                                  |              | IF                         |                     |                  | 6000B7000       |              |                |
| SEED                         | 385051.66N / 0763332.32W | Y                                  | FB           | TF                         | 011.89              | 04.23            | 5000B6000       |              |                |
| DUDDS                        | 390048.21N / 0763010.61W | Y                                  | FB           | TF                         | 014.78              | 10.27            | AT/ABOVE 3000   |              |                |
| KBWI:RWY 33R                 |                          |                                    |              |                            |                     |                  |                 |              |                |

