

## DME DME Assessment Results for RAVNN8 path CACYE\_TBART

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\CACYE_TBART\KBWI RAVNN8 RNAV STAR CACYE TBART 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
CACYE	WP	N38° 20' 15.5800", W080° 38' 16.6800"	17000	VNAV	290	FLY_BY	TF
TBART	WP	N38° 14' 46.3300", W079° 15' 30.8000"	17000	VNAV	290	FLY_BY	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

**DME DME Assessment Results for RAVNN8 path CACYE\_TBART**

<b>DME/DME</b>	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	ZZV	N39° 56' 27.0911", W081° 53' 33.3687"	6.0 W	130	DH	IFPA	NO	Enabled		
2	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled		
3	HVQ	N38° 20' 58.8336", W081° 46' 11.6924"	3.0 W	130	H	IFPA	NO	Enabled		
4	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled		
5	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled		
6	PSK	N37° 05' 15.6676", W080° 42' 46.3767"	6.0 W	130	H	IFPA	NO	Enabled		
7	LWB	N37° 51' 49.9130", W080° 23' 30.5431"	0.0 E	40	L	IFPA	NO	Enabled		
8	BKW	N37° 46' 49.0788", W081° 07' 24.4398"	6.0 W	130	DH	IFPA	NO	Enabled		
9	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled		
10	HNN	N38° 45' 14.8487", W082° 01' 34.2034"	-0.0 E	130	H	IFPA	NO	Enabled		

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0	BKW	HNN	PSK	HVQ	LWB	ZZV
23.0	HVQ	LWB	HNN	PSK	GVE	BKW
30.4	PSK	GVE	LWB	HVQ	BKW	
38.7	PSK	GVE	HVQ	CSN	BKW	
46.7	PSK	MOL	BKW	GVE	FAK	CSN
63.6	CSN	MOL	BKW	GVE	FAK	

**DME DME Assessment Results for RAVNN8 path CACYE\_TBART**

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

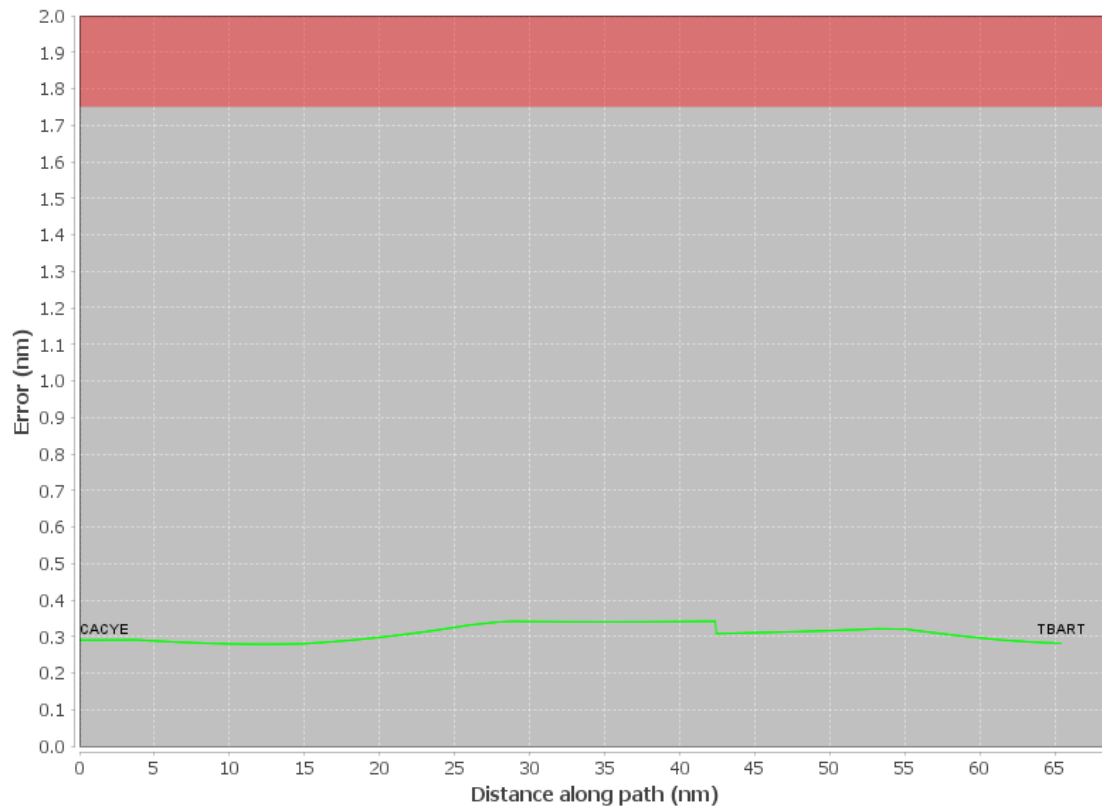
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
CACYE	TBART	ZZV [IFPA], FAK [IFPA], HVQ [IFPA], GVE [IFPA], CSN [IFPA], PSK [IFPA], LWB [IFPA], BKW [IFPA], MOL [IFPA], HNN	

User Data Files	
#	File Name
1	UserDMEsKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

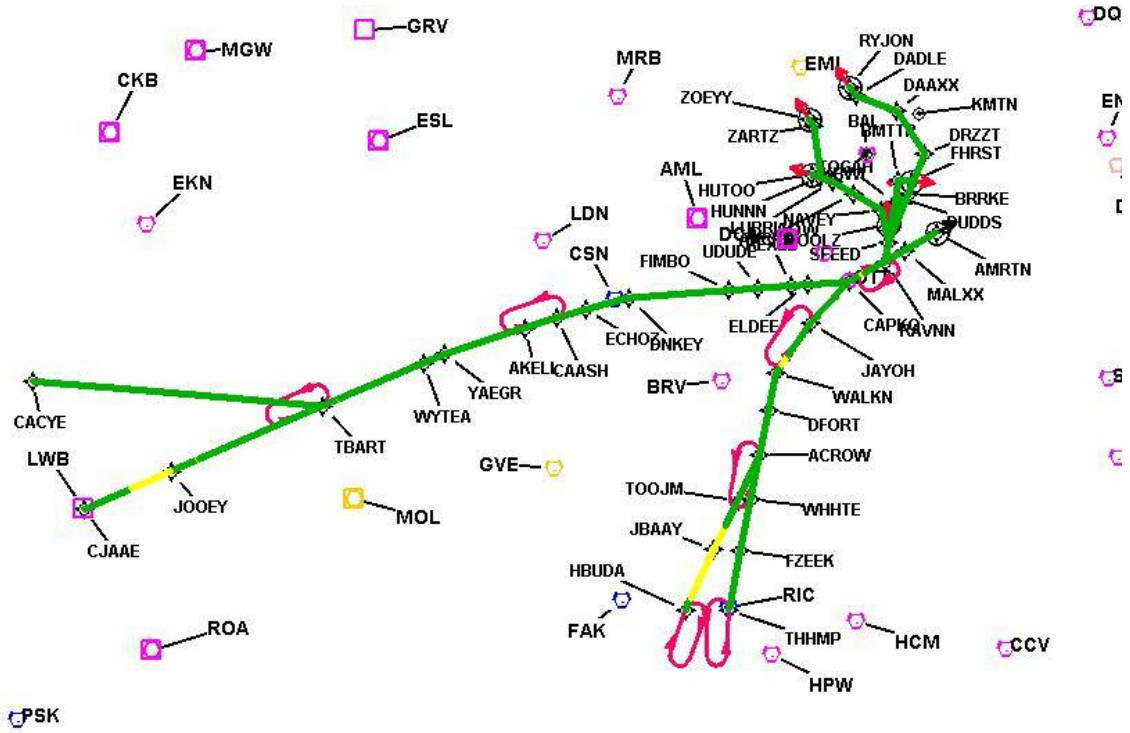
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

## DME Error



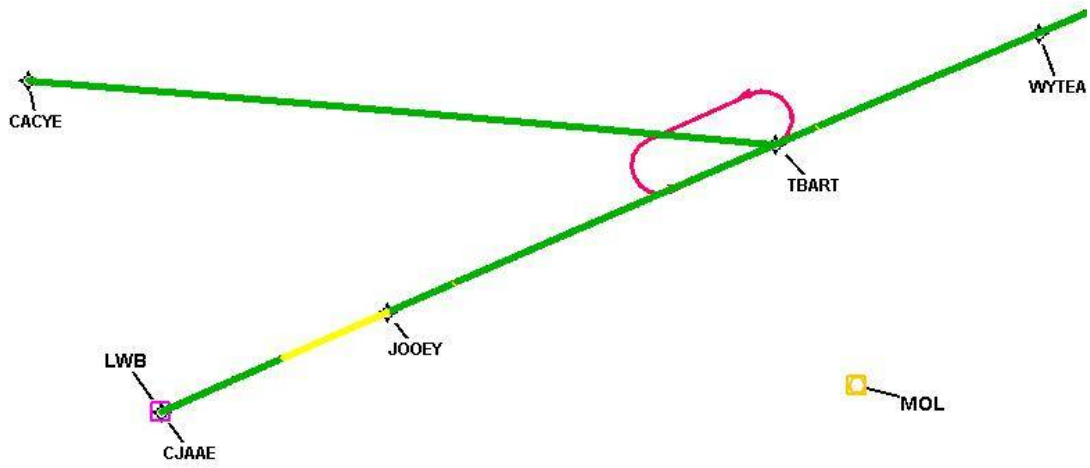
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 1



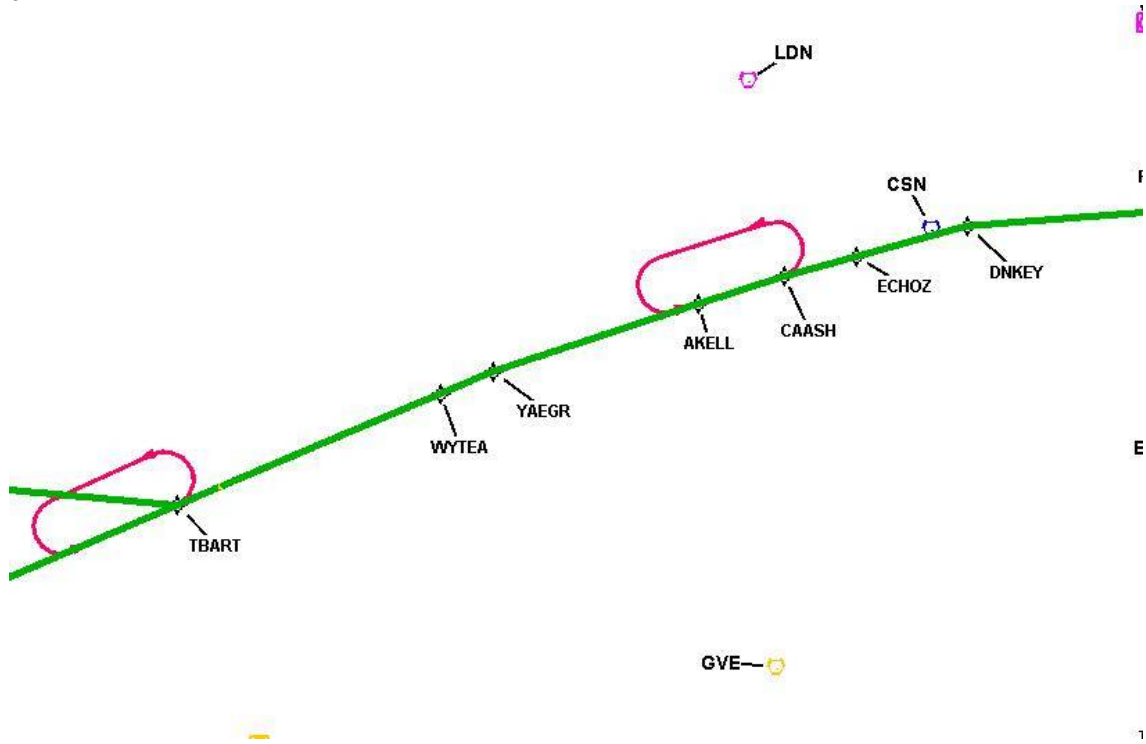
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 2



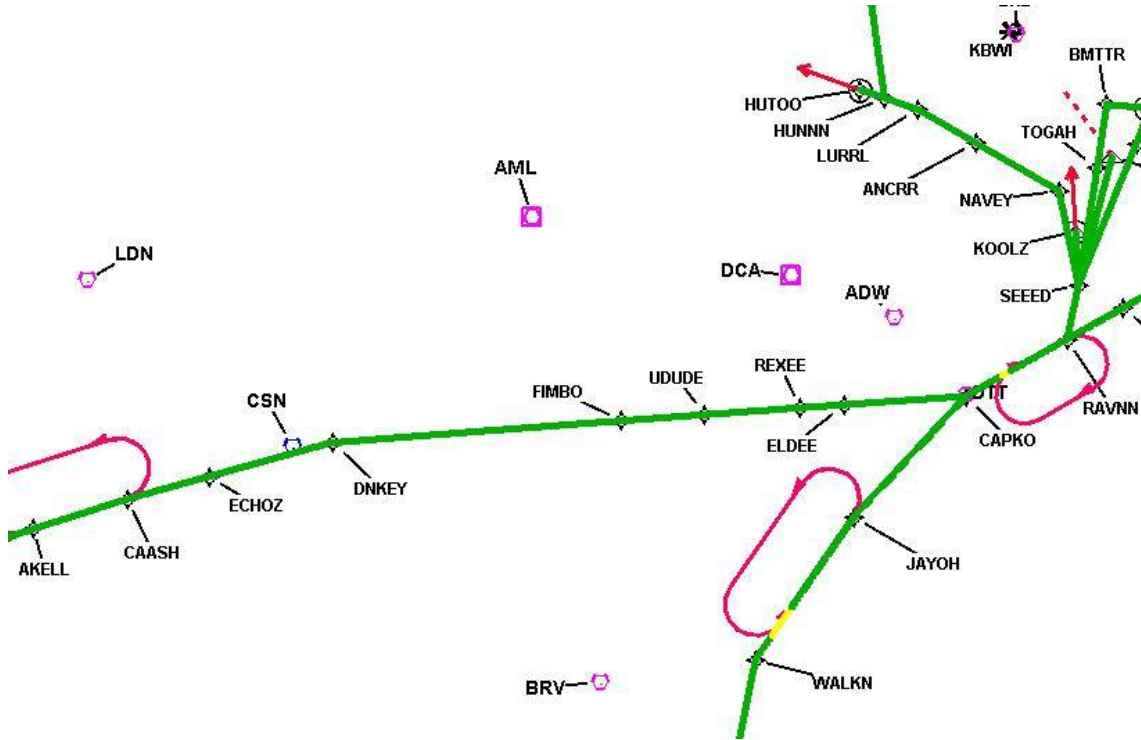
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 3



# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

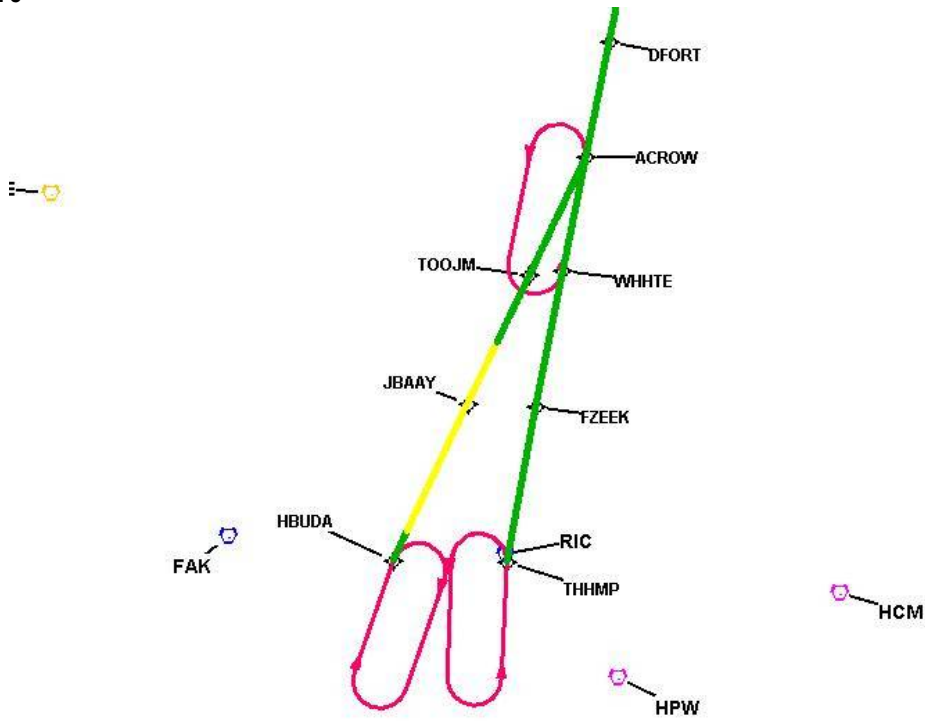
Graphic Depiction 4





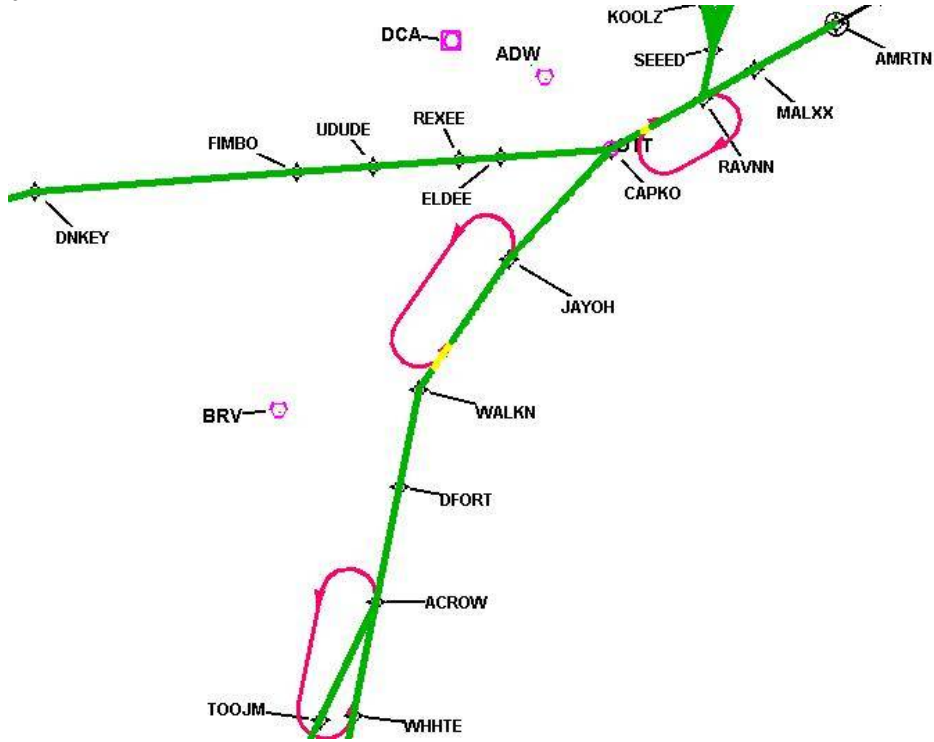
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 5



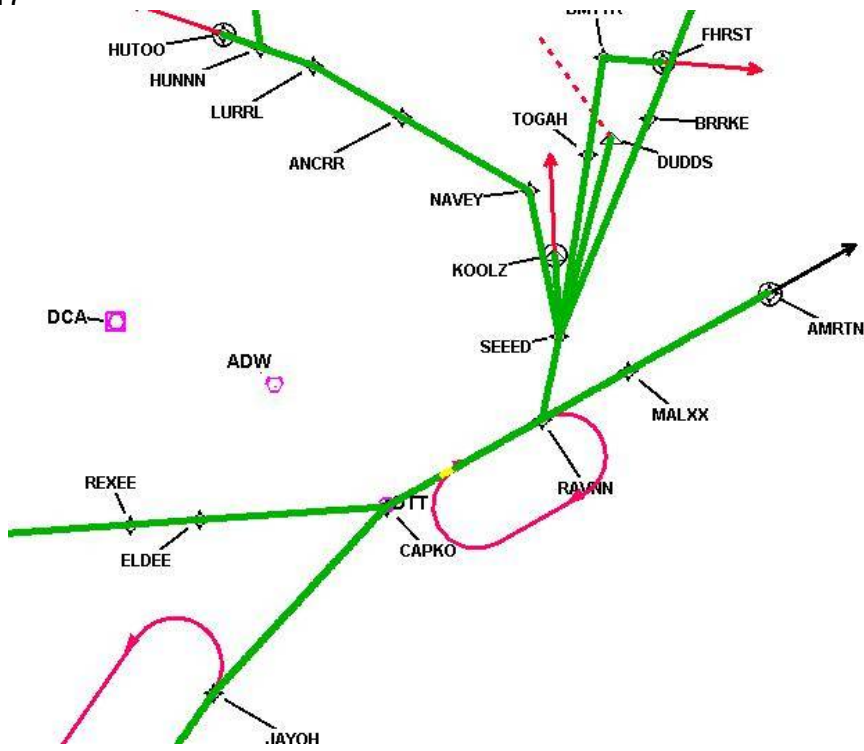
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 6



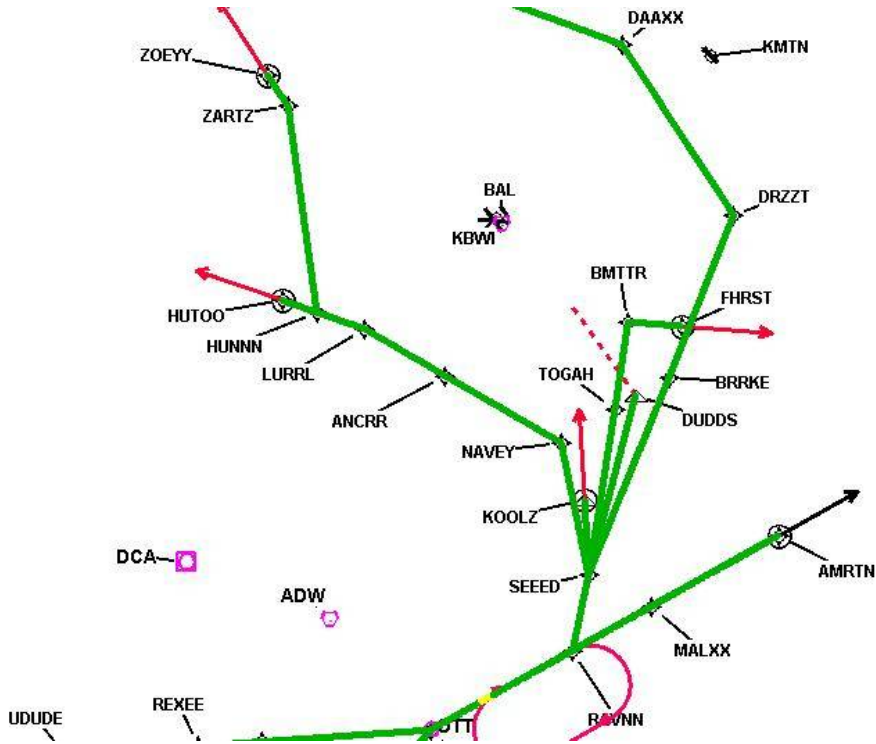
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 7



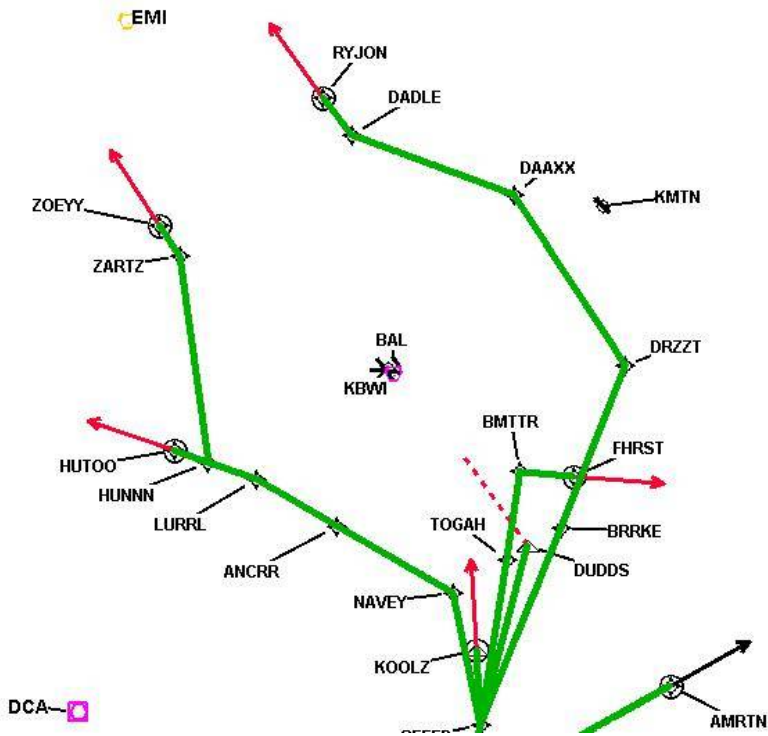
# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 8



# DME DME Assessment Results for RAVNN8 path CACYE\_TBART

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\CJAAE_ZOEYY\KBWI RAVNN8 RNAV STAR CJAAE ZOEYY 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

<b>Flight Plan</b>							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
CJAAE	WP	N37° 51' 49.6800", W080° 23' 31.3000"	17000	VNAV	290	FLY_BY	TF
JOOEY	WP	N38° 00' 21.0800", W079° 58' 34.0000"	17000	VNAV	290	FLY_BY	TF
TBART	WP	N38° 14' 46.3300", W079° 15' 30.8000"	17000	VNAV	290	FLY_BY	TF
WYTEA	WP	N38° 24' 20.1200", W078° 46' 21.4400"	14000	VNAV	290	FLY_BY	TF
YAEGR	WP	N38° 26' 14.6800", W078° 40' 28.5700"	10000	VNAV	290	FLY_BY	TF
AKELL	WP	N38° 32' 04.2300", W078° 17' 43.8000"	10000	VNAV	290	FLY_BY	TF
CAASH	WP	N38° 34' 23.7700", W078° 08' 18.2900"	10000	VNAV	280	FLY_BY	TF
ECHOZ	WP	N38° 36' 07.4500", W078° 00' 13.6200"	10000	VNAV	280	FLY_BY	TF
DNKEY	WP	N38° 38' 45.0500", W077° 47' 58.0100"	10000	VNAV	280	FLY_BY	TF
FIMBO	WP	N38° 40' 26.4900", W077° 19' 08.0400"	10000	VNAV	280	FLY_BY	TF
UDUDE	WP	N38° 40' 55.0400", W077° 10' 49.8100"	10000	VNAV	280	FLY_BY	TF
REXEE	WP	N38° 41' 26.7000", W077° 01' 20.4900"	10000	VNAV	280	FLY_BY	TF
ELDEE	WP	N38° 41' 41.5700", W076° 56' 49.1100"	5000	VNAV	280	FLY_BY	TF
CAPKO	WP	N38° 42' 20.5200", W076° 44' 42.5400"	5000	VNAV	250	FLY_BY	TF
RAVNN	WP	N38° 46' 43.0600", W076° 34' 39.2300"	5000	VNAV	250	FLY_BY	TF
SEED	WP	N38° 50' 51.6600", W076° 33' 32.3200"	4000	VNAV	250	FLY_BY	TF
NAVEY	WP	N38° 58' 10.9900", W076° 35' 29.2600"	4000	VNAV	230	FLY_BY	TF
ANCRR	WP	N39° 01' 52.1500", W076° 43' 43.6000"	3000	VNAV	210	FLY_BY	TF
LURRL	WP	N39° 04' 28.6300", W076° 49' 30.2300"	3000	VNAV	210	FLY_BY	TF
HUNNN	WP	N39° 05' 23.1000", W076° 52' 54.3500"	3000	VNAV	210	FLY_BY	TF
ZARTZ	WP	N39° 16' 46.1900", W076° 54' 57.2400"	3000	VNAV	210	FLY_BY	TF
ZOEYY	WP	N39° 18' 26.5700", W076° 56' 22.1100"	3000	VNAV	210	FLY_OVER	TF

<b>Flyability</b>	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

<b>DME/DME</b>	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None



**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
<b>#</b>	<b>Name</b>	<b>Lat/Lon</b>	<b>MAGVAR</b>	<b>Range</b>	<b>Type</b>	<b>Source</b>	<b>Critical</b>	<b>Status</b>	<b>Time</b>	<b>Distance</b>
1	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled		
2	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled		
3	HVQ	N38° 20' 58.8336", W081° 46' 11.6924"	3.0 W	130	H	IFPA	NO	Enabled		
4	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled		
5	LWB	N37° 51' 49.9130", W080° 23' 30.5431"	0.0 E	40	L	IFPA	NO	Enabled		
6	MOL	N37° 54' 03.1524", W079° 06' 22.2526"	5.0 W	40	L	IFPA	NO	Enabled		
7	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
8	LDN	N38° 51' 15.8344", W078° 12' 20.0559"	6.0 W	40	L	IFPA	NO	Enabled		
9	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
10	ROA	N37° 20' 36.4659", W080° 04' 13.4304"	4.0 W	40	L	IFPA	NO	Enabled		
11	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
12	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled		
13	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled		
14	ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	L	IFPA	NO	Enabled		
15	PSK	N37° 05' 15.6676", W080° 42' 46.3767"	6.0 W	130	H	IFPA	NO	Enabled		
16	BKW	N37° 46' 49.0788", W081° 07' 24.4398"	6.0 W	130	DH	IFPA	NO	Enabled		
17	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled		
18	HNN	N38° 45' 14.8487", W082° 01' 34.2034"	-0.0 E	130	H	IFPA	NO	Enabled		
19	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
20	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled		

**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

<b>Flight Check DME Selection</b>						
<b>Distance [NM]</b>	<b>Selected DMEs</b>					<b>Alternate</b>
0.0	PSK	HVQ	BKW	ROA	HNN	
5.6	BKW	ROA	LWB	PSK	HVQ	
21.6	PSK	HVQ	GVE	BKW		
26.5	PSK	MOL	HVQ	GVE	BKW	
34.6	PSK	MOL	FAK	GVE	LWB	CSN
39.9	PSK	MOL	FAK	GVE	BKW	CSN
58.9	CSN	MOL	BKW	GVE	FAK	
62.5	MOL	GVE	BKW	RIC		
62.7	MOL	BKW				
64.4	MOL	BKW	ESL			
70.6	FAK	MOL	ESL	BKW		
82.9	FAK	LDN	MOL	ESL	BKW	
84.4	FAK	LDN	MOL	ESL		
85.9	LDN	GVE	FAK	MOL	ESL	
87.6	LDN	GVE	FAK	ESL		
88.4	LDN	GVE	CSN			
104.4	CSN	GVE	FAK	ESL	LDN	
114.4	CSN	LDN	GVE	AML		
117.6	CSN	LDN	AML	BRV	GVE	
122.3	AML	LDN	CSN	BRV		
123.0	AML	LDN	FAK	CSN	BRV	
124.3	AML	LDN	BRV	FAK		
129.8	AML	BRV	LDN	DCA		
137.1	AML	LDN	BRV	DCA	ADW	
149.2	AML	CSN	OTT	BRV	ADW	DCA
168.2	OTT	DCA	AML	BRV	BAL	ADW
174.0	AML	BAL	BRV	DCA	OTT	
176.6	BRV	DCA	AML	BAL		
177.5	BRV	DCA	AML	BAL	ADW	
181.7	ADW	BRV	DCA	BAL		
184.2	AML	BAL	DCA	ADW	BRV	OTT
184.9	BAL	DCA	ADW			
187.8	BAL	ADW	DCA	OTT		

**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
199.3	ADW	EMI	BAL	DCA	OTT	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

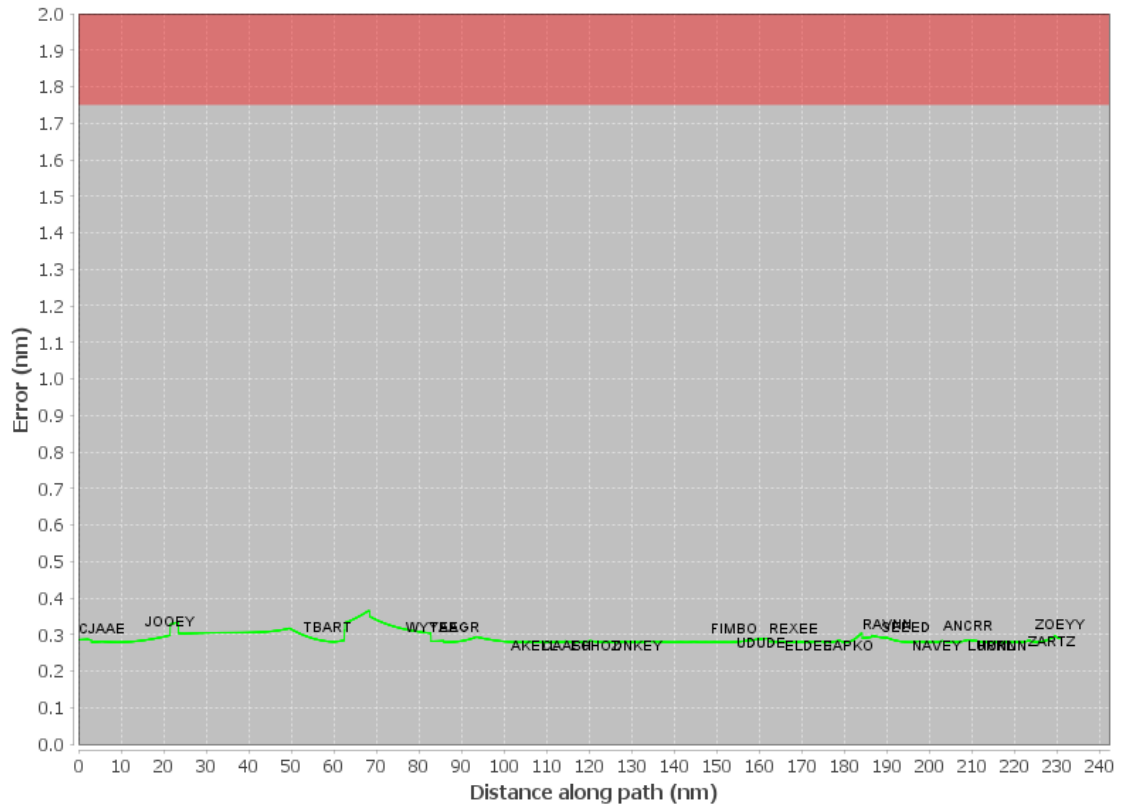
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
CJAAE	JOEY	ROA [IFPA], HVQ [IFPA], GVE [IFPA], PSK [IFPA], BKW [IFPA], LWB [IFPA], HNN	
JOEY	TBART	ROA [IFPA], FAK [IFPA], HVQ [IFPA], GVE [IFPA], CSN [IFPA], PSK [IFPA], LWB [IFPA], BKW [IFPA], MOL	
TBART	WYTEA	LDN [IFPA], RIC [IFPA], FAK [IFPA], GVE [IFPA], CSN [IFPA], ESL [IFPA], PSK [IFPA], MOL [IFPA], BKW	
WYTEA	YAEGR	LDN [IFPA], FAK [IFPA], ESL [IFPA], GVE [IFPA], MOL [IFPA], BKW	
YAEGR	AKELL	LDN [IFPA], FAK [IFPA], GVE [IFPA], ESL [IFPA], CSN	
AKELL	CAASH	LDN [IFPA], FAK [IFPA], CSN [IFPA], GVE [IFPA], ESL [IFPA], AML	
CAASH	ECHOZ	LDN [IFPA], BRV [IFPA], GVE [IFPA], CSN [IFPA], AML	
ECHOZ	DNKEY	LDN [IFPA], FAK [IFPA], BRV [IFPA], GVE [IFPA], CSN [IFPA], AML [IFPA], DCA	
DNKEY	FIMBO	LDN [IFPA], OTT [IFPA], BRV [IFPA], CSN [IFPA], AML [IFPA], DCA [IFPA], ADW	
FIMBO	UDUDE	OTT [IFPA], BRV [IFPA], CSN [IFPA], AML [IFPA], ADW [IFPA], DCA	
UDUDE	REXEE	OTT [IFPA], BAL [IFPA], BRV [IFPA], CSN [IFPA], AML [IFPA], ADW [IFPA], DCA	
REXEE	ELDEE	OTT [IFPA], BAL [IFPA], BRV [IFPA], CSN [IFPA], AML [IFPA], ADW [IFPA], DCA	
ELDEE	CAPKO	OTT [IFPA], BAL [IFPA], BRV [IFPA], AML [IFPA], ADW [IFPA], DCA	
CAPKO	RAVNN	OTT [IFPA], BAL [IFPA], BRV [IFPA], AML [IFPA], ADW [IFPA], DCA	
RAVNN	SEED	OTT [IFPA], BAL [IFPA], ADW [IFPA], DCA	
SEED	NAVEY	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW [IFPA], EMI	
NAVEY	ANCRR	OTT [IFPA], BAL [IFPA], AML [IFPA], DCA [IFPA], EMI [IFPA], ADW	
ANCRR	LURRL	OTT [IFPA], BAL [IFPA], AML [IFPA], ADW [IFPA], EMI [IFPA], DCA	
LURRL	HUNNN	OTT [IFPA], BAL [IFPA], AML [IFPA], ADW [IFPA], DCA [IFPA], EMI	
HUNNN	ZARTZ	OTT [IFPA], BAL [IFPA], AML [IFPA], ADW [IFPA], DCA [IFPA], EMI	
ZARTZ	ZOEYY	OTT [IFPA], BAL [IFPA], AML [IFPA], ADW [IFPA], DCA [IFPA], EMI	

**DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

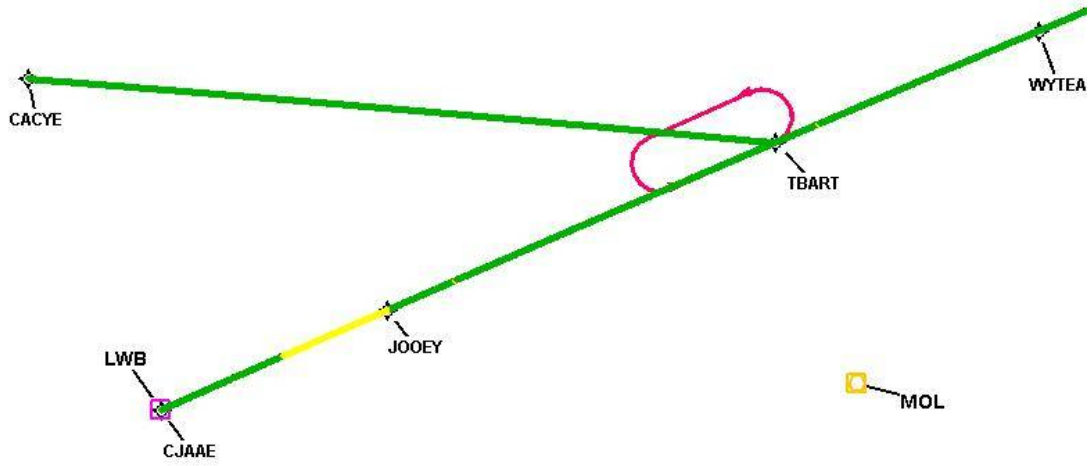
## DME Error





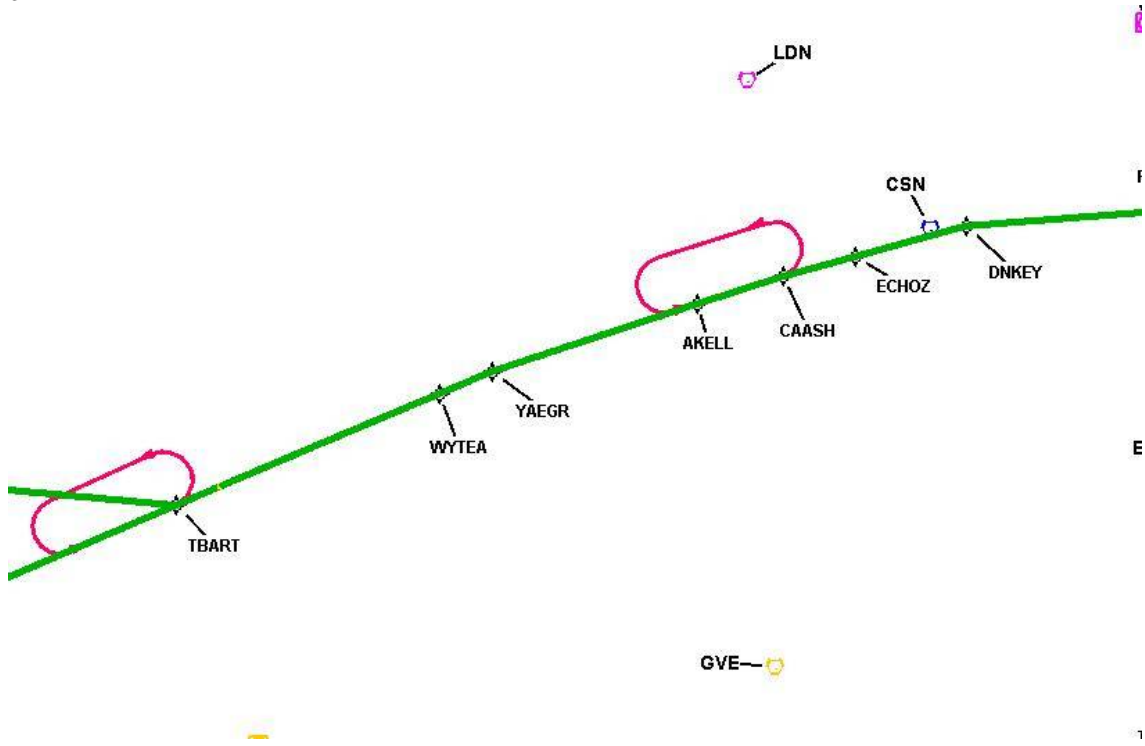
# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

Graphic Depiction 2



# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

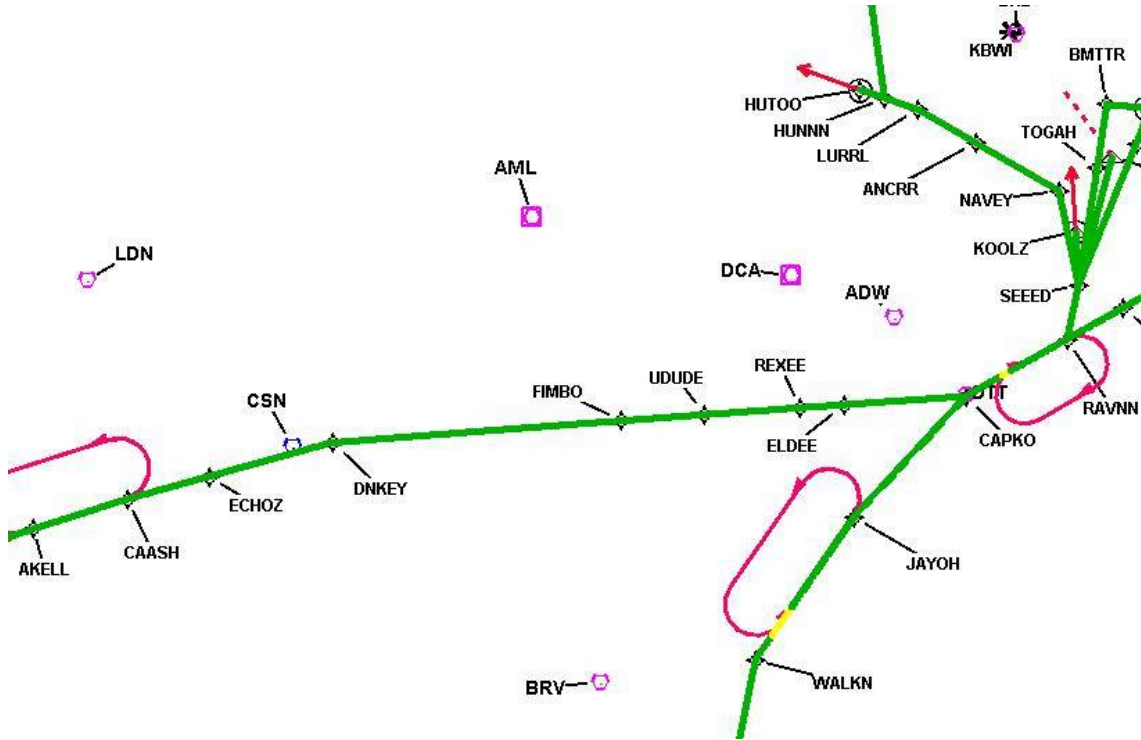
Graphic Depiction 3





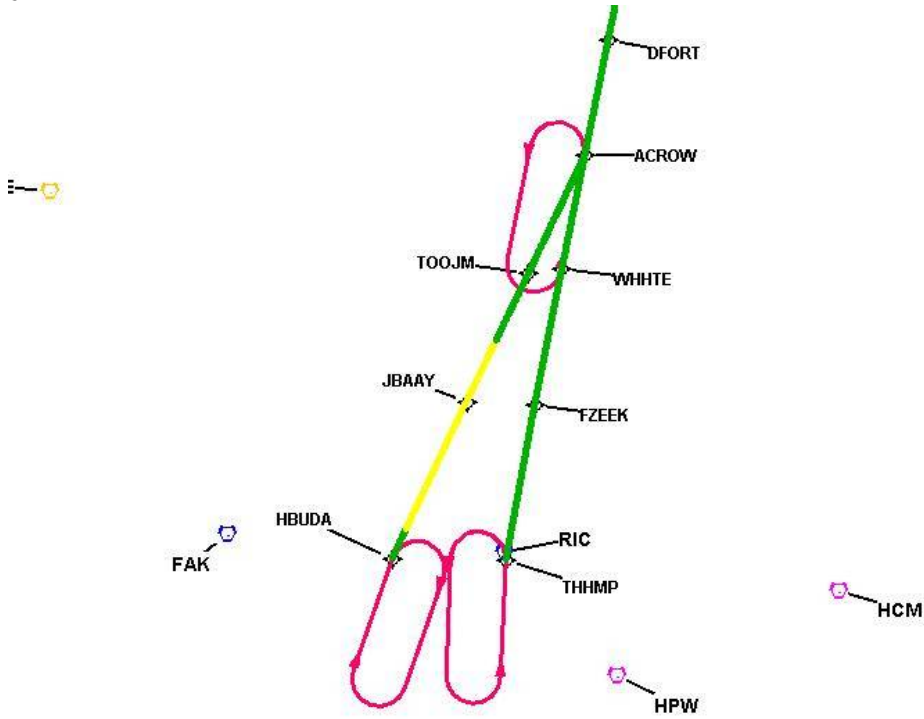
# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

Graphic Depiction 4



DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

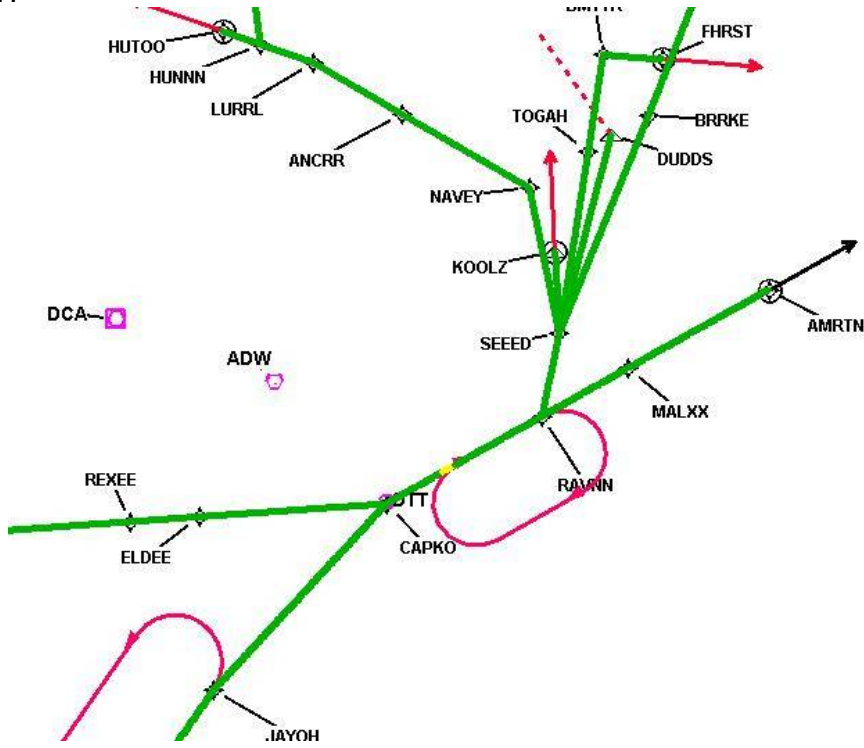
Graphic Depiction 5





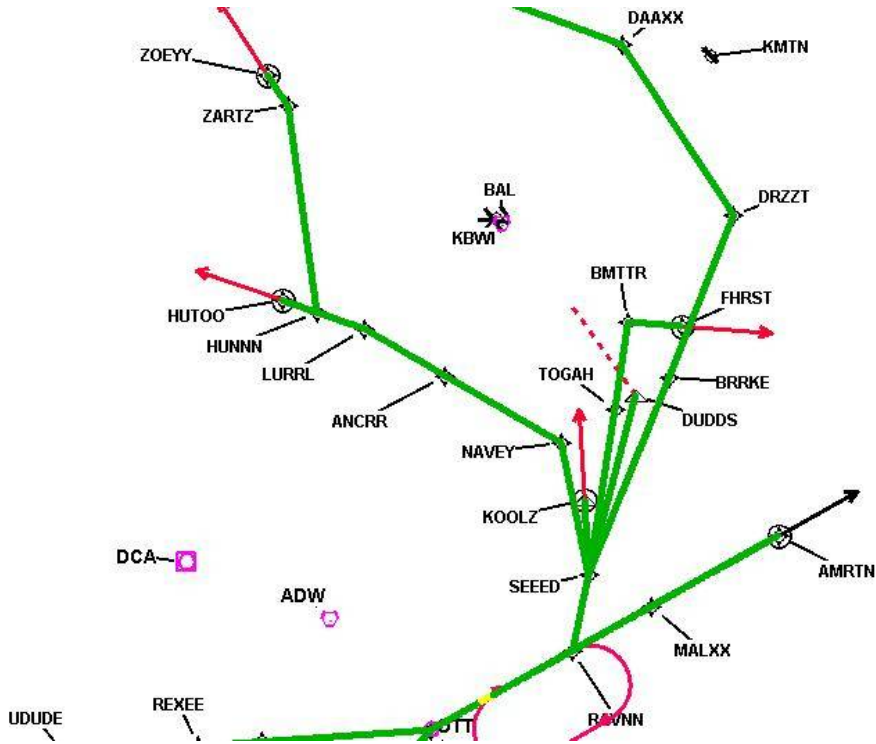
# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

Graphic Depiction 7



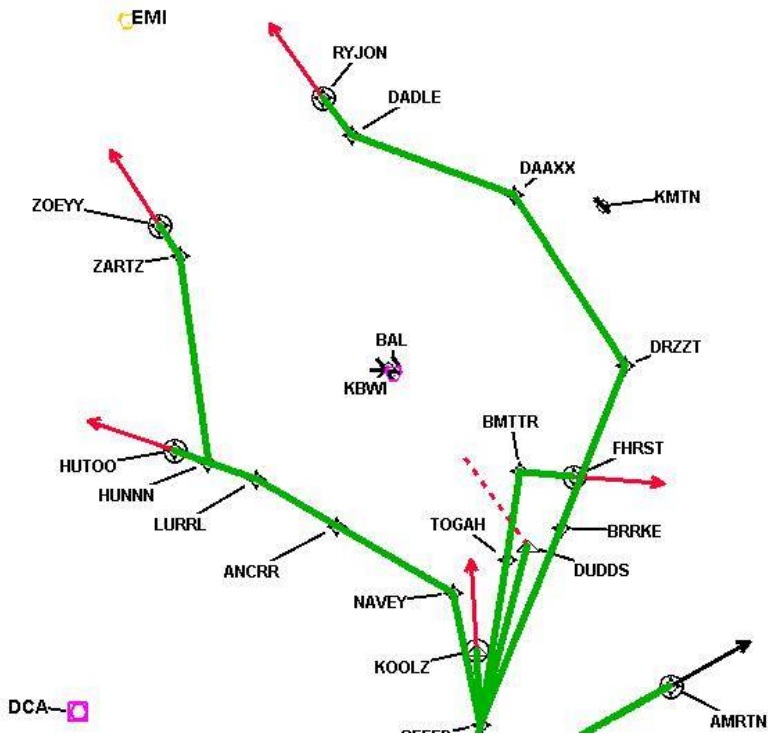
# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

Graphic Depiction 8



# DME DME Assessment Results for RAVNN8 path CJAAE\_ZOEYY

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\HBUDA_CAPKO\KBWI RAVNN8 RNAV STAR HBUDA CAPKO 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
None

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
HBUDA	WP	N37° 29' 35.6200", W077° 31' 36.8600"	12000	VNAV	280	FLY_BY	TF
JBAAY	WP	N37° 42' 57.2900", W077° 23' 26.3500"	12000	VNAV	280	FLY_BY	TF
TOOJM	WP	N37° 53' 48.9700", W077° 16' 39.4000"	9000	VNAV	280	FLY_BY	TF
ACROW	WP	N38° 03' 51.9300", W077° 10' 28.9800"	9000	VNAV	280	FLY_BY	TF
DFORT	WP	N38° 13' 41.6800", W077° 07' 54.6600"	9000	VNAV	280	FLY_BY	TF
WALKN	WP	N38° 21' 56.9500", W077° 05' 44.5400"	5000	VNAV	280	FLY_BY	TF
JAYOH	WP	N38° 33' 00.3100", W076° 55' 53.8600"	5000	VNAV	280	FLY_BY	TF
CAPKO	WP	N38° 42' 20.5200", W076° 44' 42.5400"	5000	VNAV	250	FLY_BY	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

**DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO**

<b>DME/DME</b>	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	L	IFPA	NO	Enabled		
2	HCM	N37° 26' 55.1756", W076° 42' 40.8741"	7.0 W	40	L	IFPA	NO	Enabled		
3	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled		
4	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled		
5	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled		
6	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
7	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
8	SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	L	IFPA	NO	Enabled		
9	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
10	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled		
11	GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	H	IFPA	NO	Enabled		
12	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled		
13	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		



**DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO**

<b>Flight Check DME Selection</b>						
<b>Distance [NM]</b>	<b>Selected DMEs</b>					<b>Alternate</b>
0.0	BRV	FAK	RIC	HPW	GVE	
6.7	HPW	FAK	RIC	HCM		
12.0	RIC	FAK	HPW	HCM	BRV	
20.6	HPW	FAK	SBY	RIC	BRV	
30.2	CSN	FAK	SBY	BRV	RIC	
43.6	FAK	CSN	BRV	OTT	SBY	
52.2	BRV	DCA	ADW	OTT		
58.8	AML	BRV	DCA	OTT	ADW	
79.9	BRV	DCA	ADW	AML	BAL	
82.3	ADW	BRV	DCA	BAL		

<b>Inertial Drift Segments</b>			
<b>#</b>	<b>Start Location</b>	<b>End Location</b>	<b>Length [NM]</b>

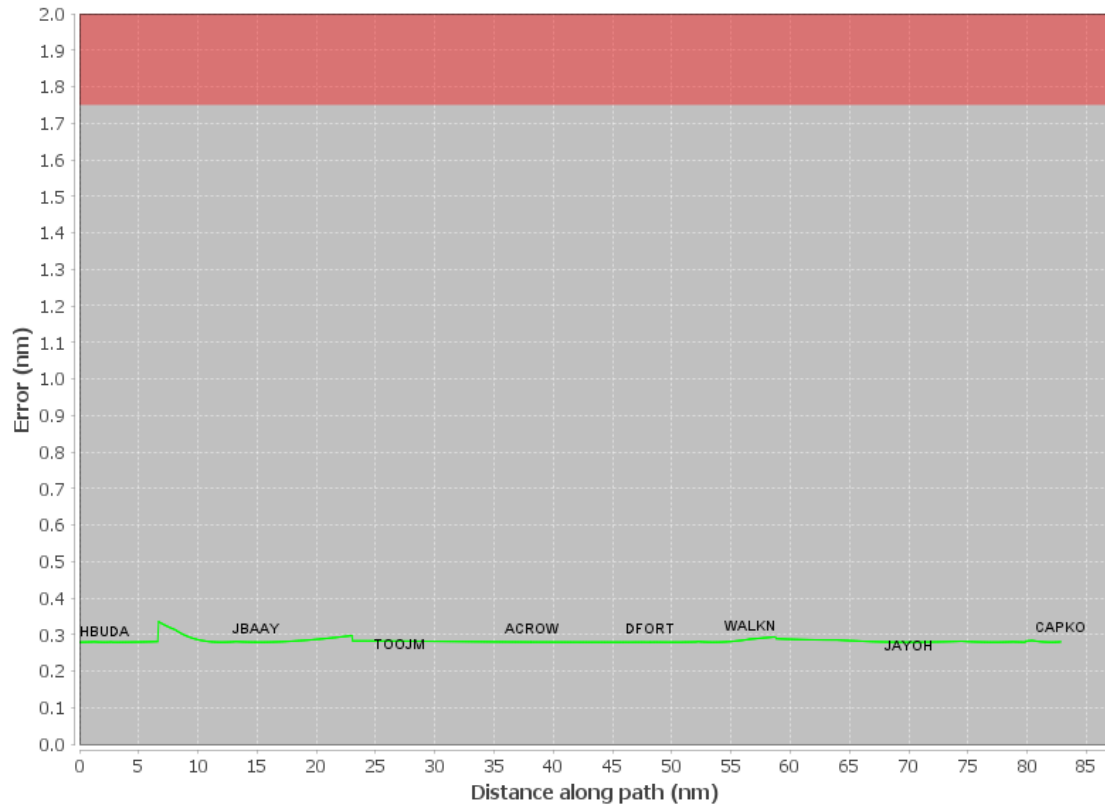
<b>Available DMEs by Waypoints</b>			
<b>Waypoint Before</b>	<b>Waypoint After</b>	<b>DME List</b>	<b>Suggested DMEs</b>
HBUDA	JBAAY	HPW [IFPA], HCM [IFPA], RIC [IFPA], FAK [IFPA], BRV [IFPA], GVE	
JBAAY	TOOJM	HPW [IFPA], HCM [IFPA], RIC [IFPA], FAK [IFPA], SBY [IFPA], BRV [IFPA], CSN	
TOOJM	ACROW	HPW [IFPA], RIC [IFPA], FAK [IFPA], SBY [IFPA], BRV [IFPA], CSN	
ACROW	DFORT	OTT [IFPA], RIC [IFPA], FAK [IFPA], SBY [IFPA], BRV [IFPA], CSN [IFPA], ADW [IFPA], DCA	
DFORT	WALKN	OTT [IFPA], FAK [IFPA], SBY [IFPA], BRV [IFPA], CSN [IFPA], ADW [IFPA], DCA	
WALKN	JAYOH	OTT [IFPA], BRV [IFPA], AML [IFPA], DCA [IFPA], ADW	
JAYOH	CAPKO	OTT [IFPA], BAL [IFPA], BRV [IFPA], AML [IFPA], ADW [IFPA], DCA	

**DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

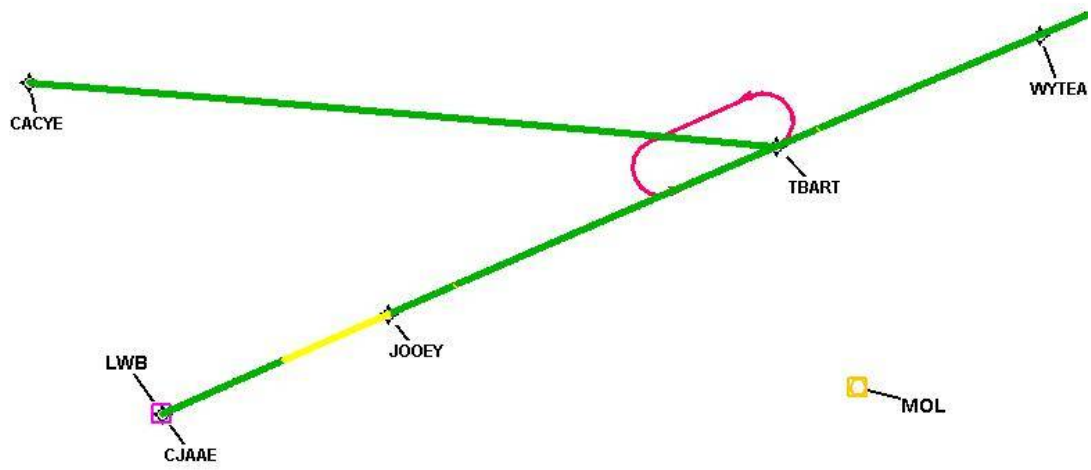
## DME Error





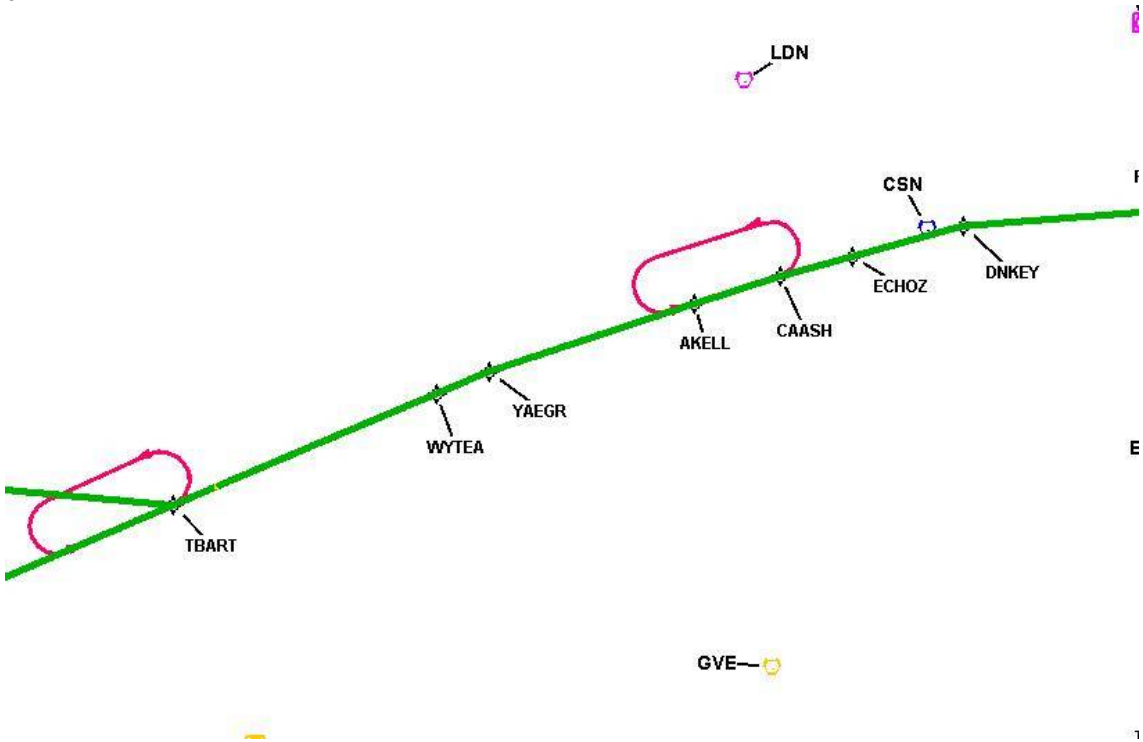
# DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 2



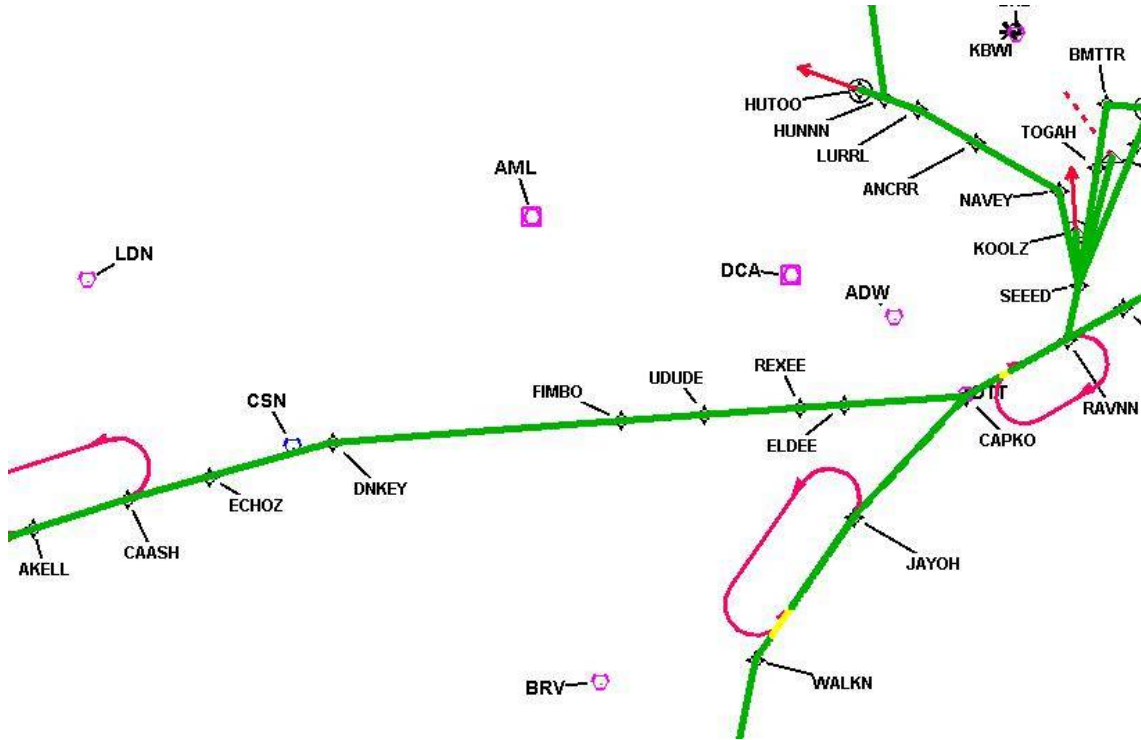
DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 3



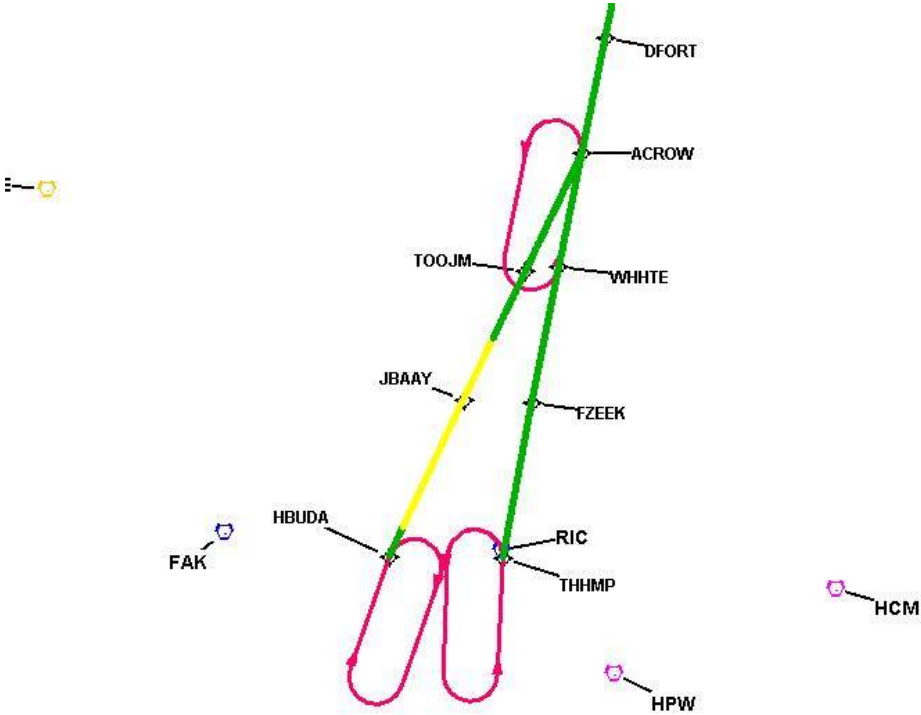
# DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 4



DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

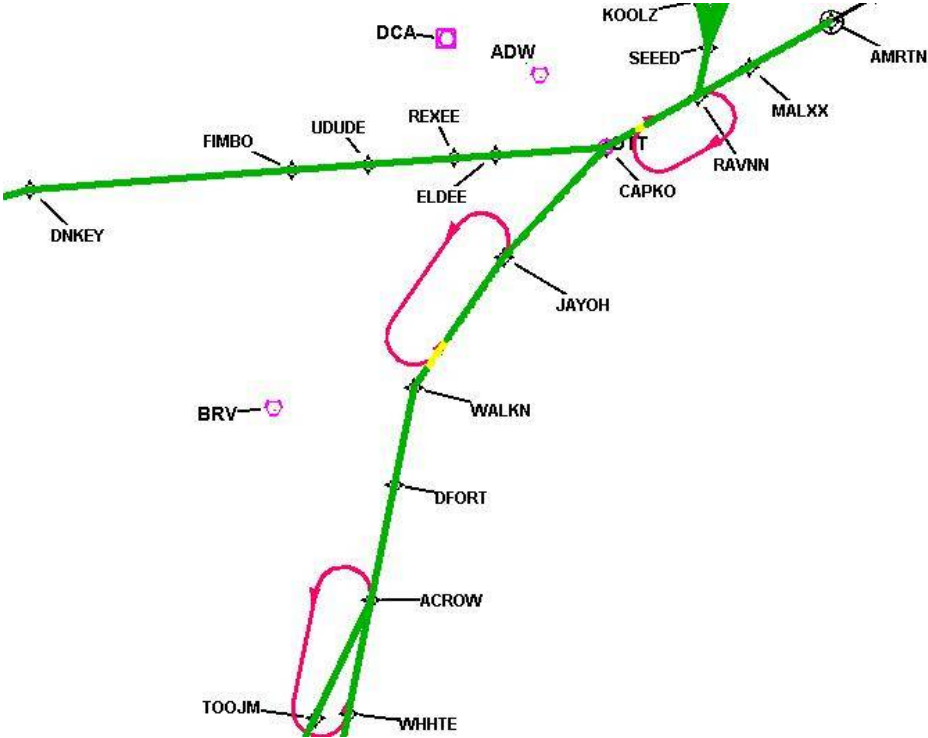
Graphic Depiction 5





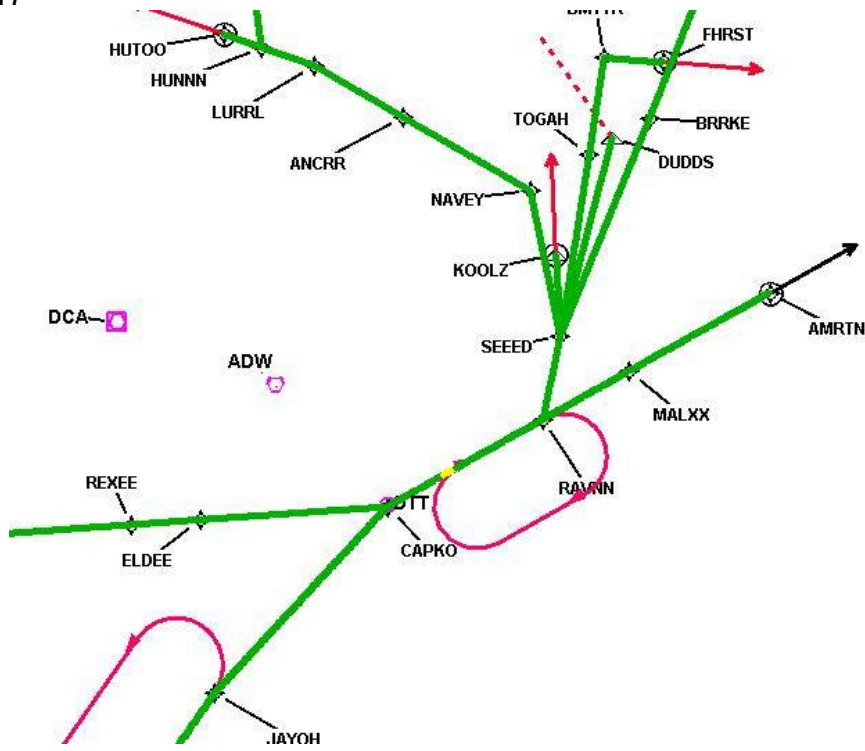
DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 6



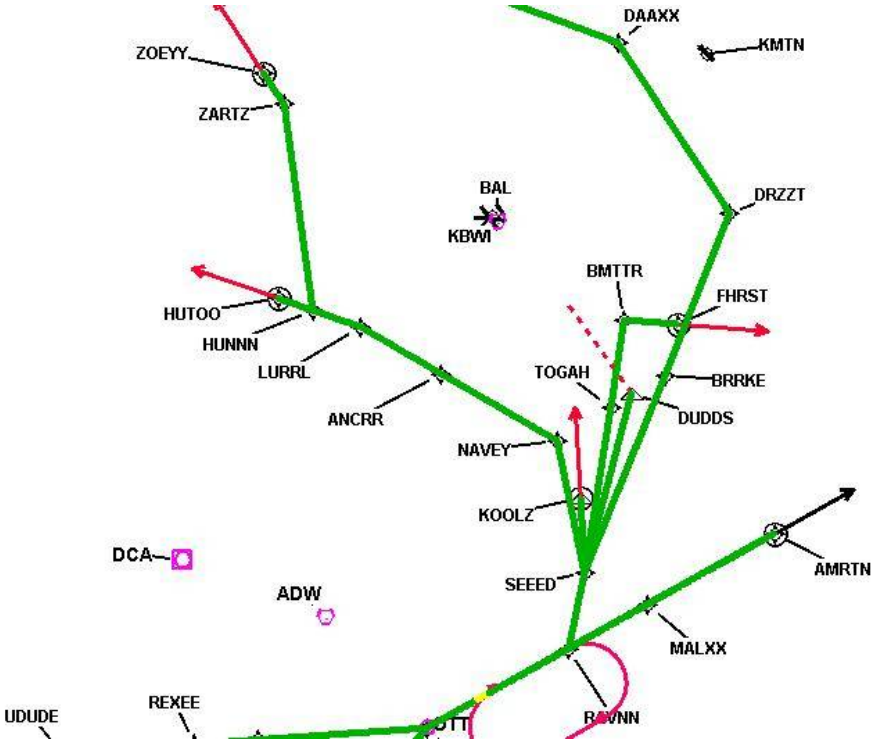
# DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 7



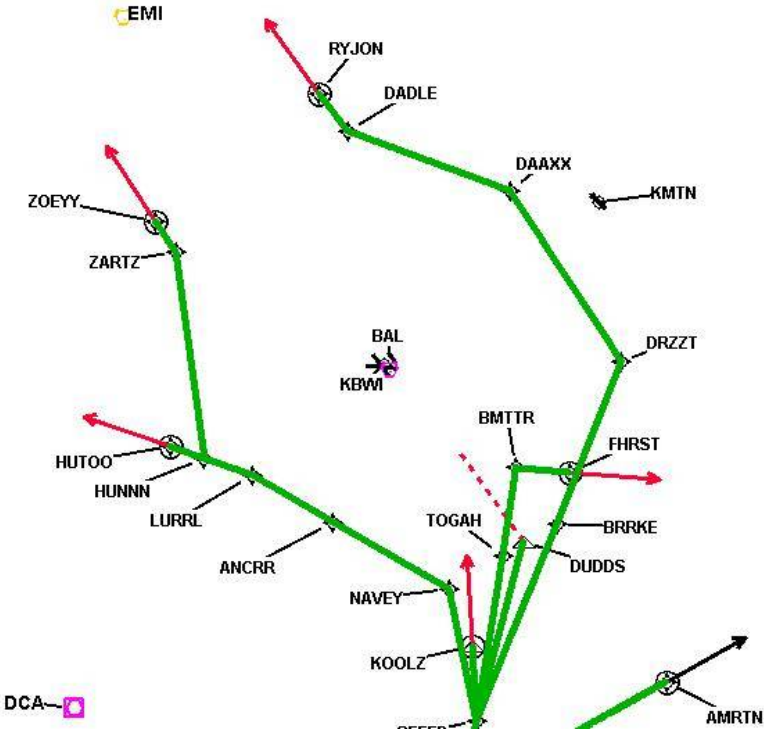
DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 8



DME DME Assessment Results for RAVNN8 path HBUDA\_CAPKO

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\HUNNN_HUTOO\KBWI RAVNN8 RNAV STAR HUNNN HUTOO 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
HUNNN	WP	N39° 05' 23.1000", W076° 52' 54.3500"	3000	VNAV	210	FLY_BY	TF
HUTOO	WP	N39° 06' 02.0200", W076° 55' 20.1700"	3000	VNAV	210	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	AML	N38° 56' 04.5329", W077° 28' 00.1263"	8.0 W	40	L	IFPA	NO	Enabled		
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
5	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
6	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	AML	OTT	EMI	BAL	ADW	DCA

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

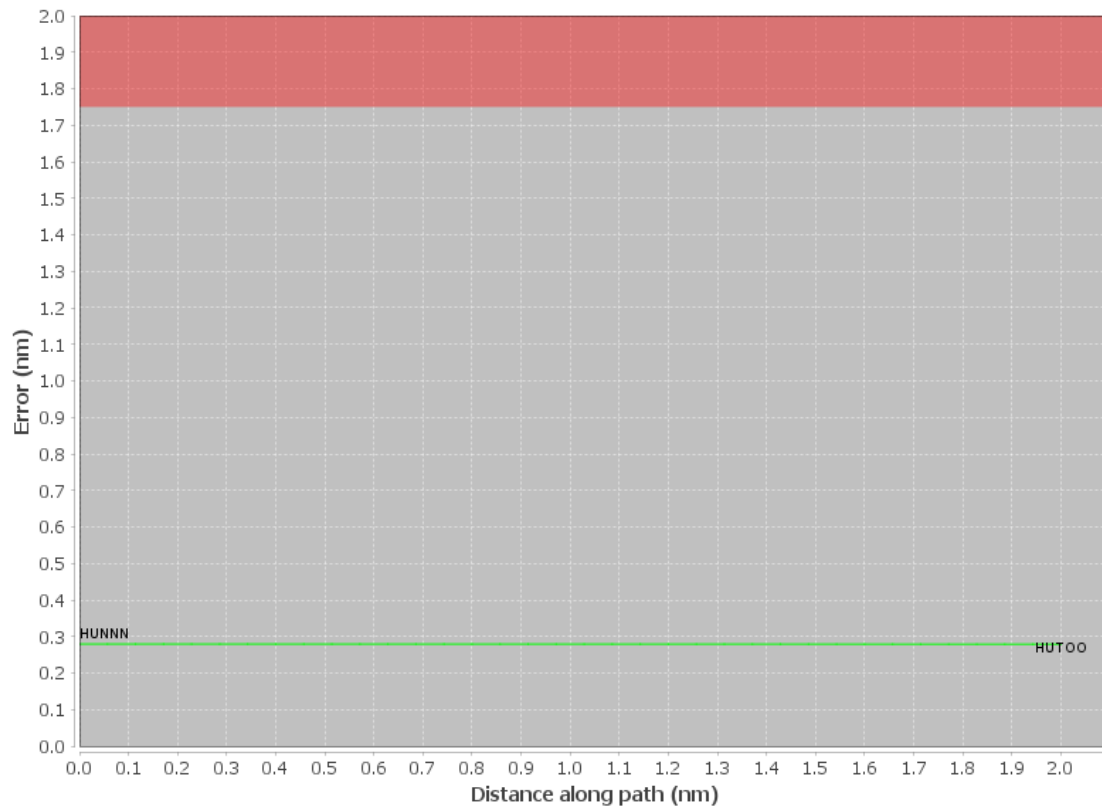
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HUNNN	HUTOO	OTT [IFPA], BAL [IFPA], AML [IFPA], ADW [IFPA], DCA [IFPA], EMI	

**DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

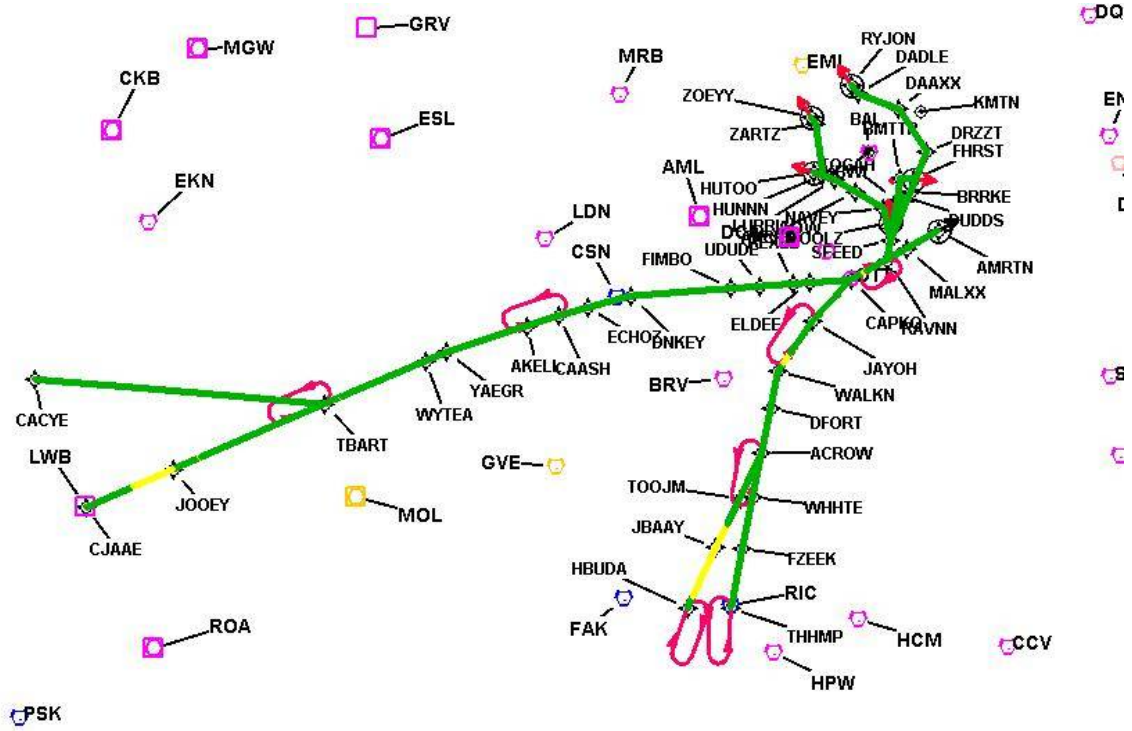
## DME Error





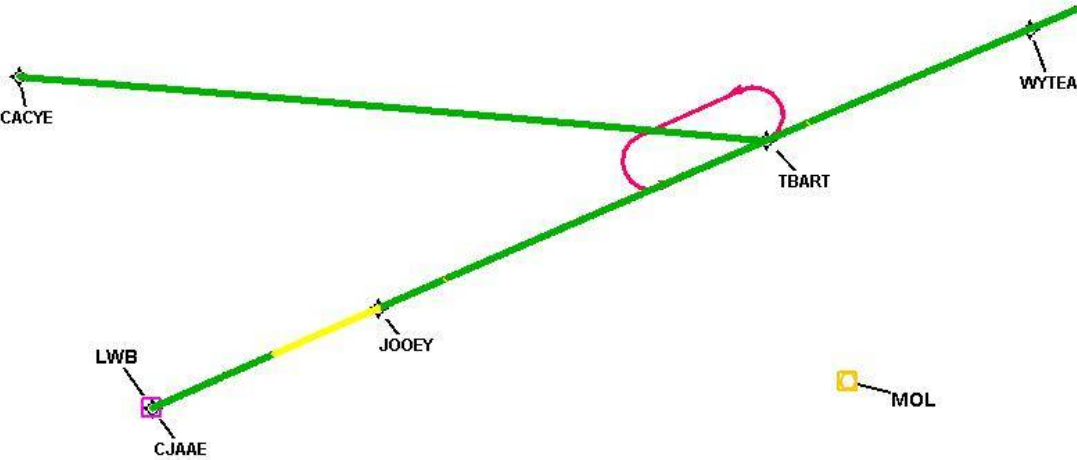
# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 1



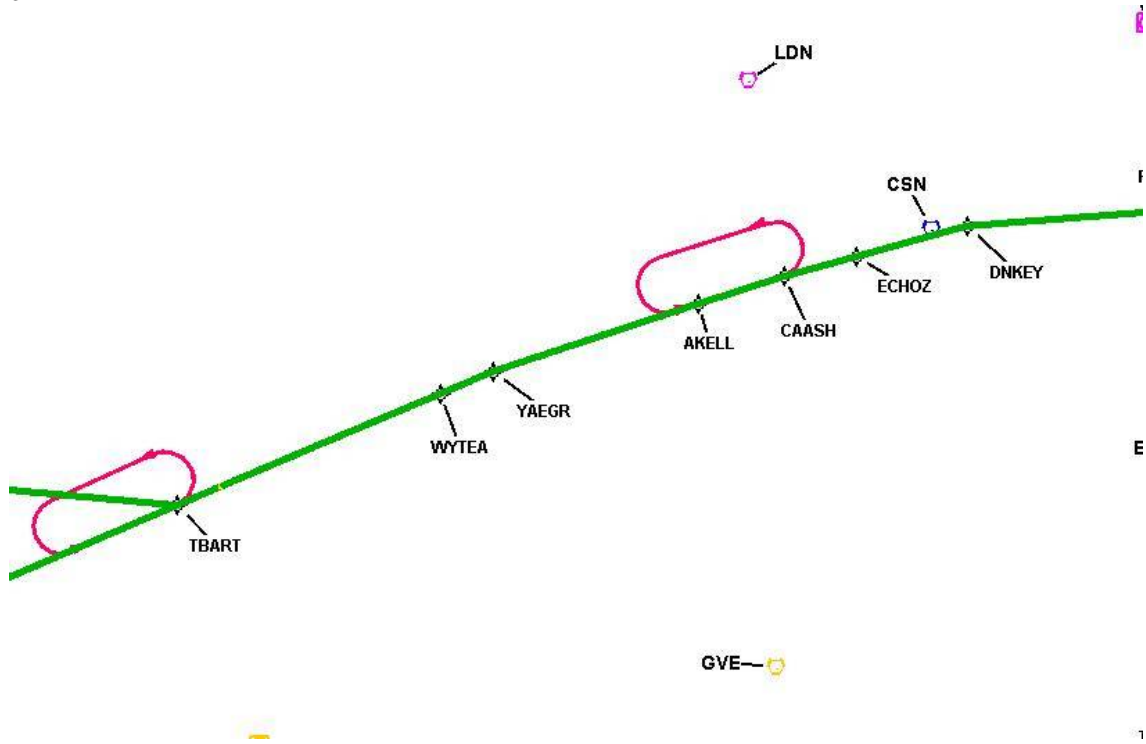
DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 2



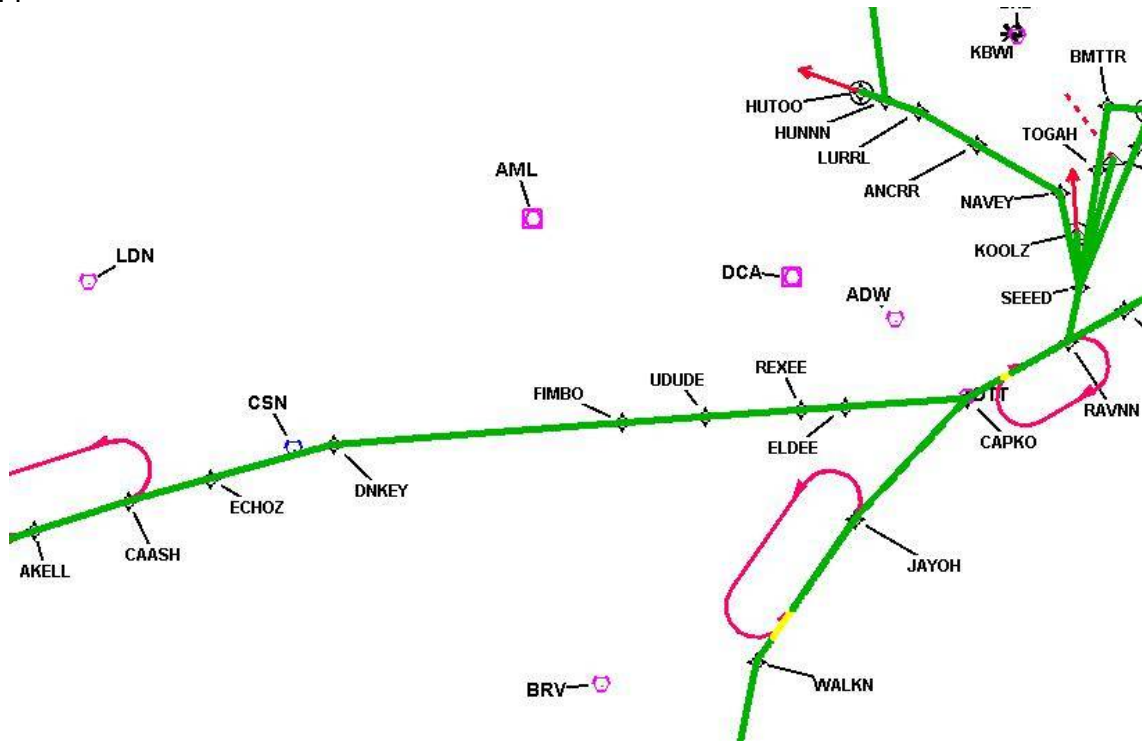
# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 3



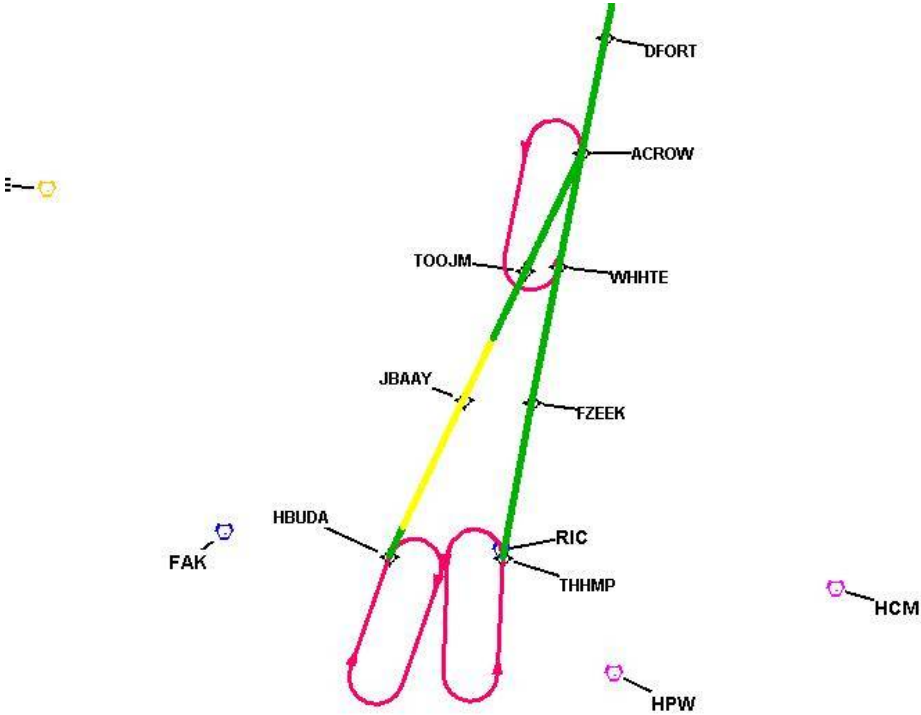
# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 4



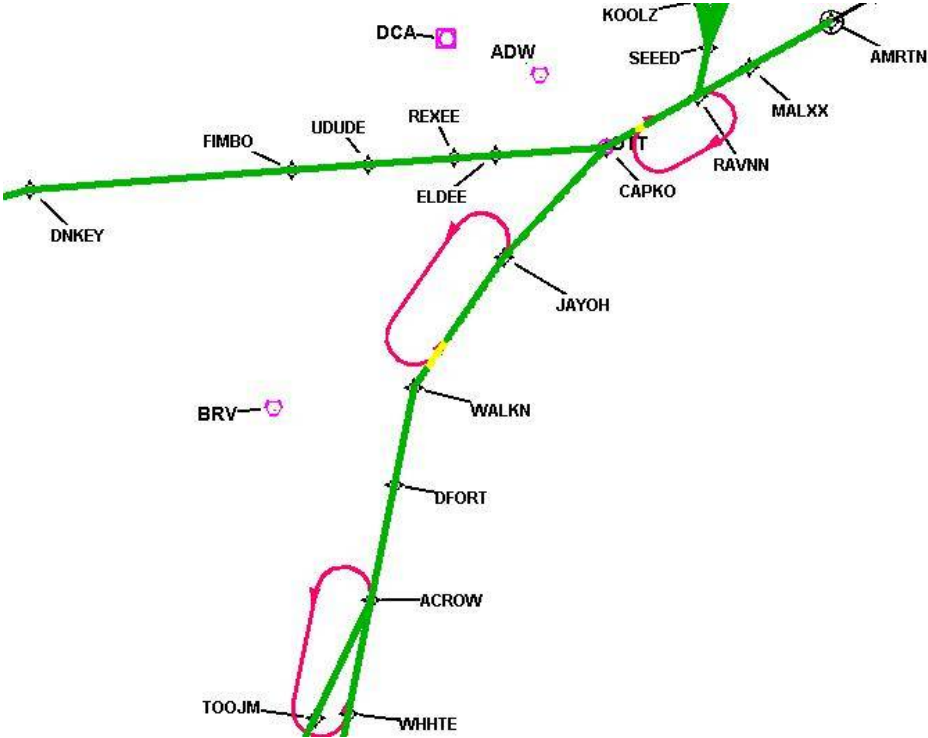
DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 5



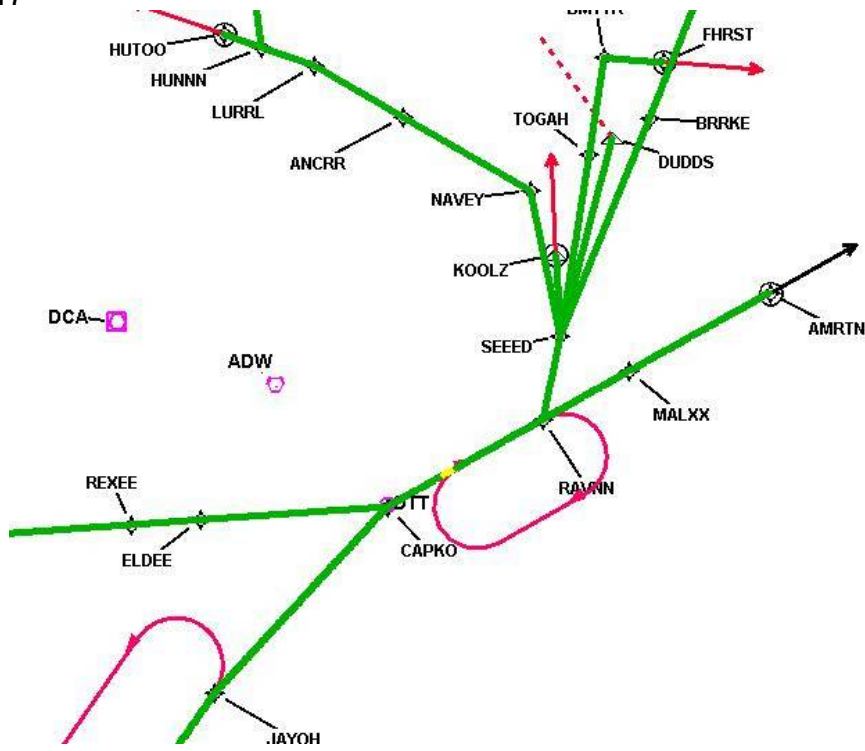
DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 6



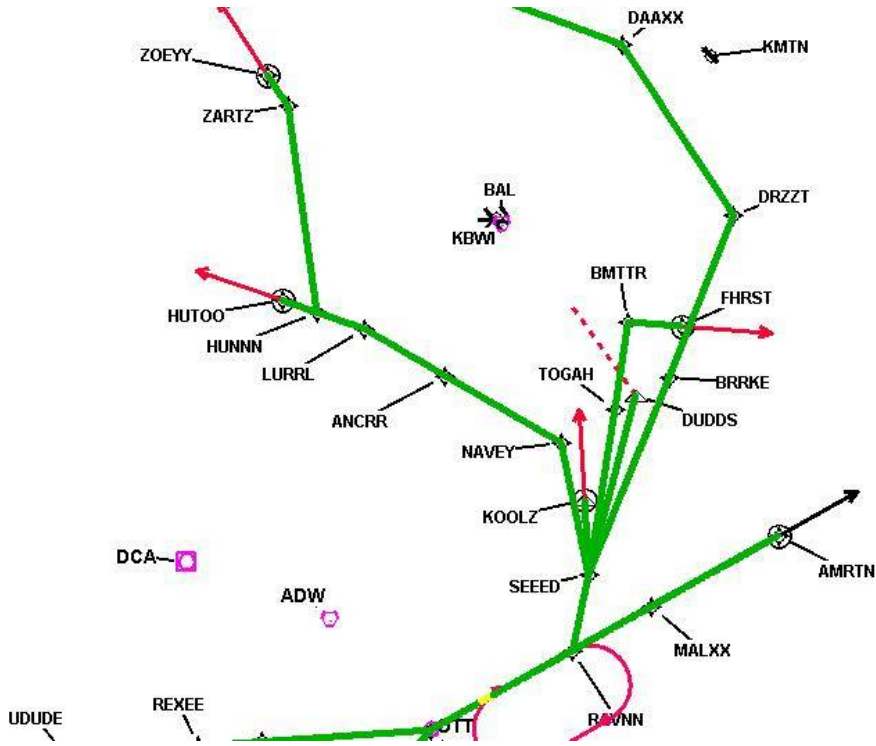
# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 7



# DME DME Assessment Results for RAVNN8 path HUNNN\_HUTOO

Graphic Depiction 8







## DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\RAVNN_AMRTN\KBWI RAVNN8 RNAV STAR RAVNN AMRTN 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
RAVNN	WP	N38° 46' 43.0600", W076° 34' 39.2300"	5000	VNAV	250	FLY_BY	TF
MALXX	WP	N38° 49' 08.5400", W076° 29' 03.5300"	3000	VNAV	250	FLY_BY	TF
AMRTN	WP	N38° 53' 04.2700", W076° 19' 57.5500"	3000	VNAV	250	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
4	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BAL	ADW	OTT	DCA		
11.5	OTT	BAL	ADW			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

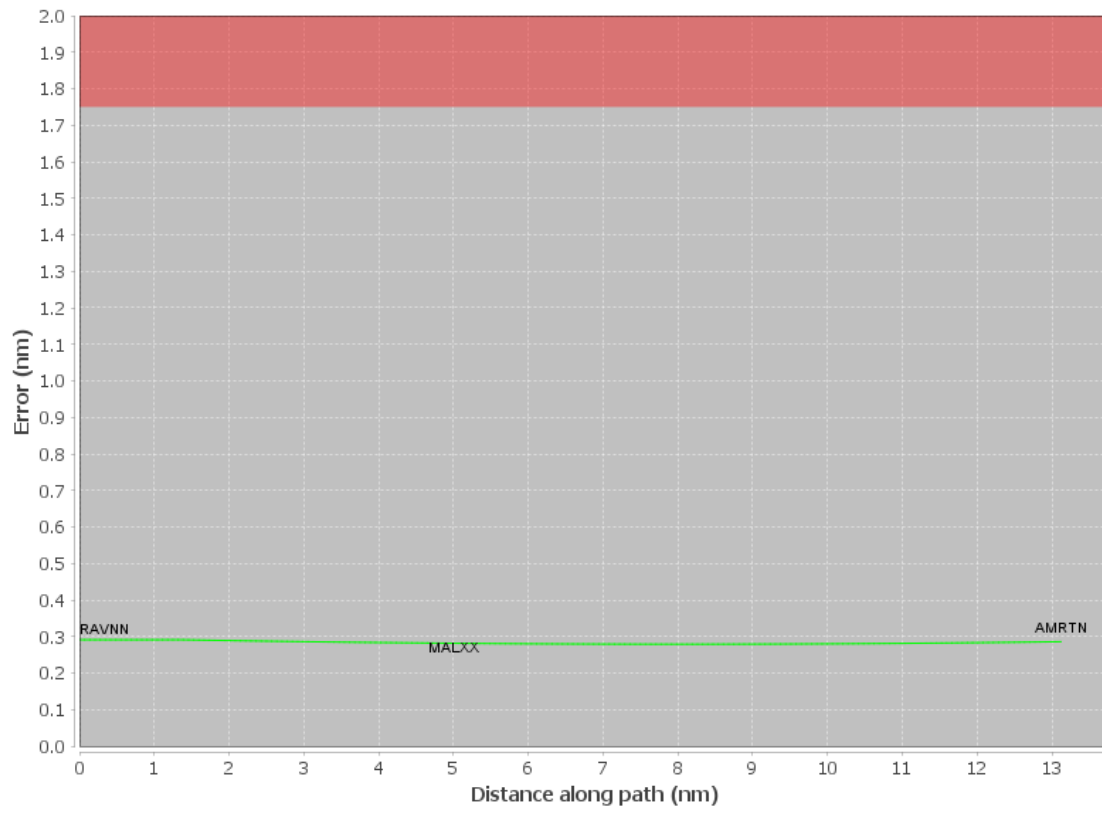
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
RAVNN	MALXX	OTT [IFPA], BAL [IFPA], ADW [IFPA], DCA	
MALXX	AMRTN	OTT [IFPA], BAL [IFPA], ADW [IFPA], DCA	

**DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

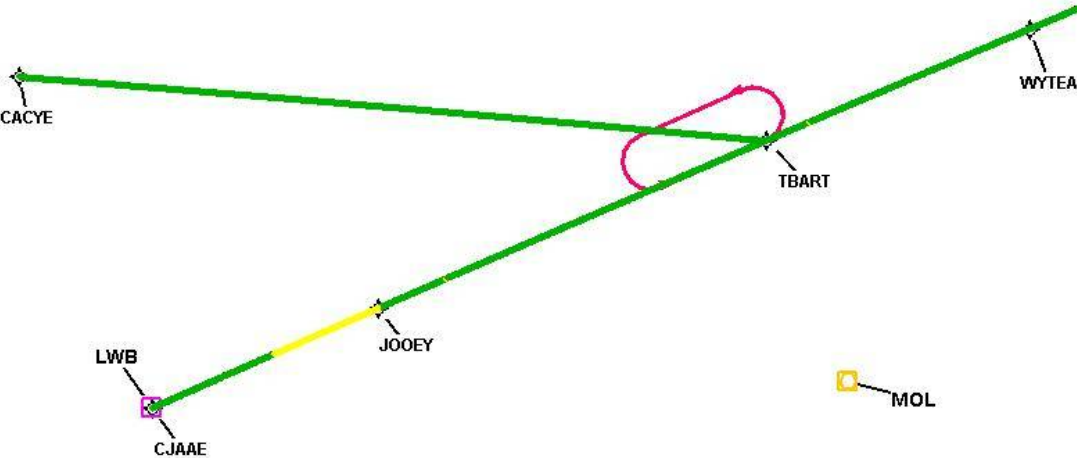
## DME Error





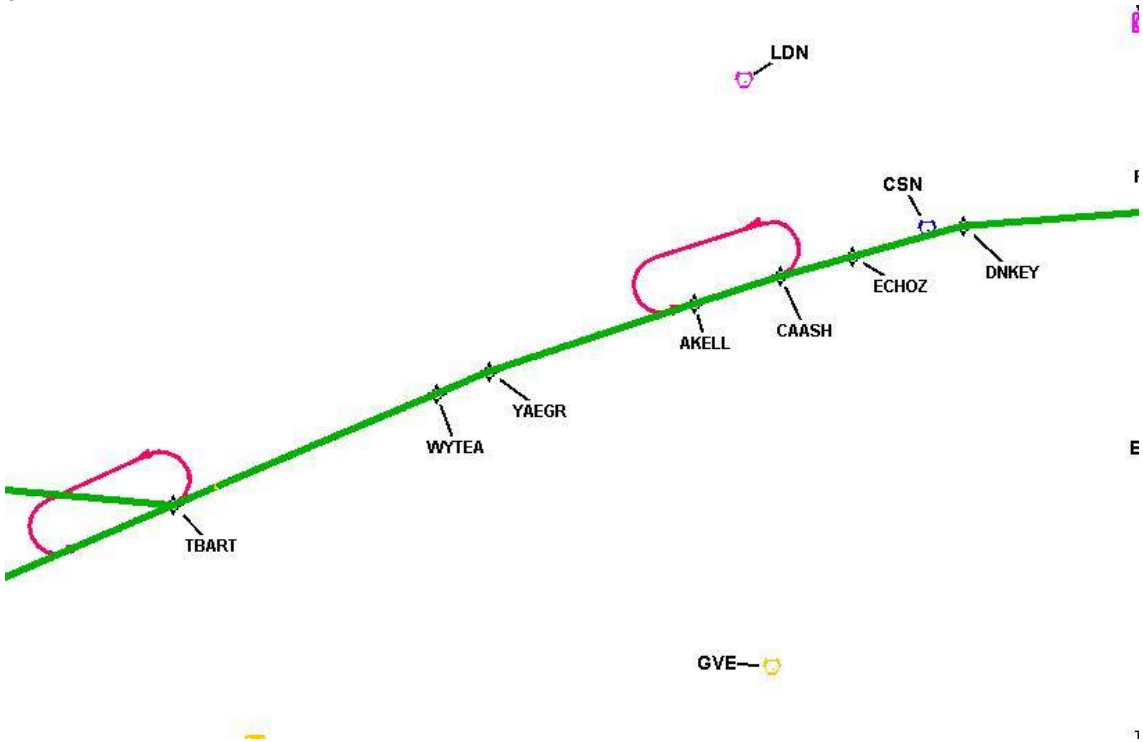
DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

Graphic Depiction 2



DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

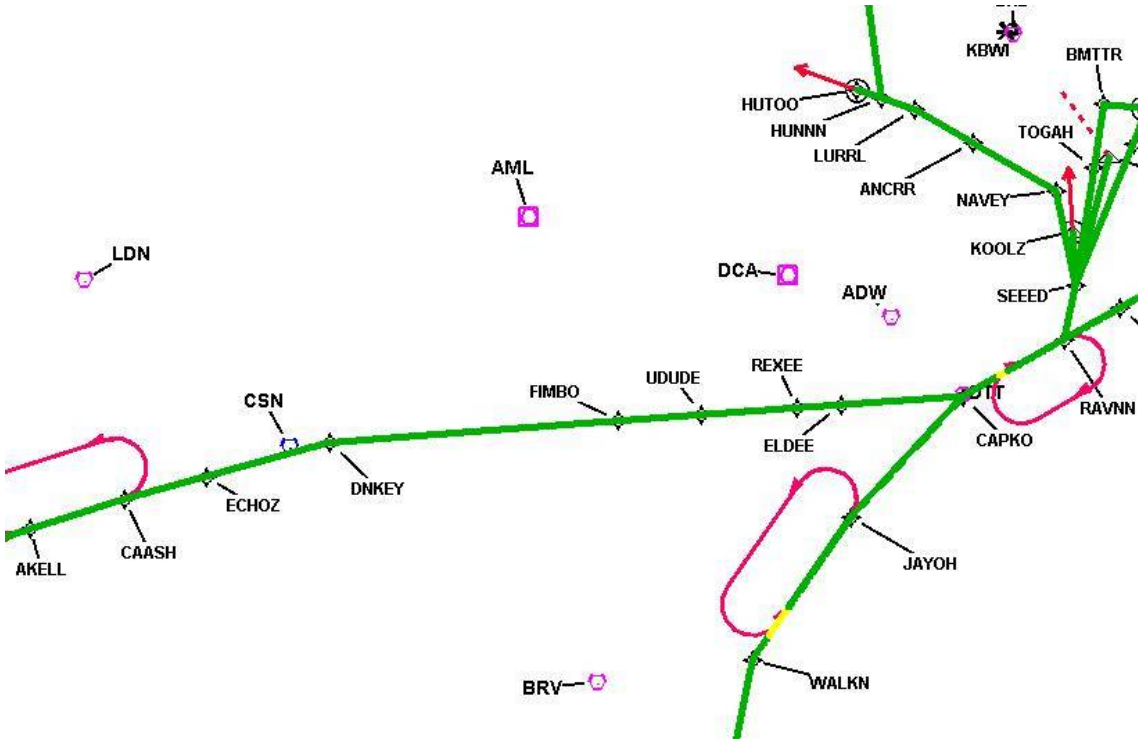
Graphic Depiction 3





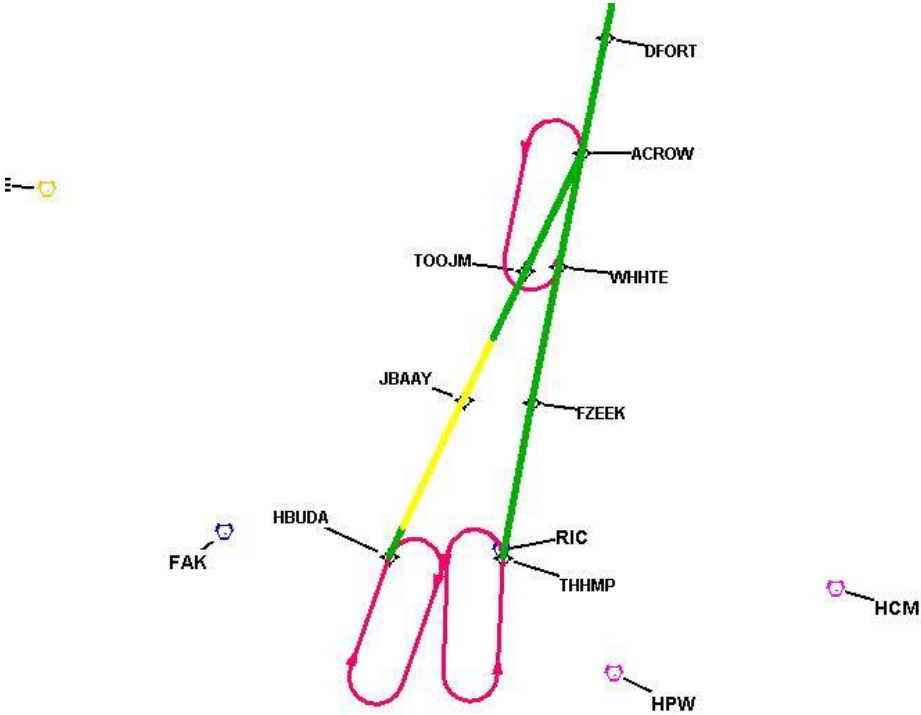
DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

Graphic Depiction 4



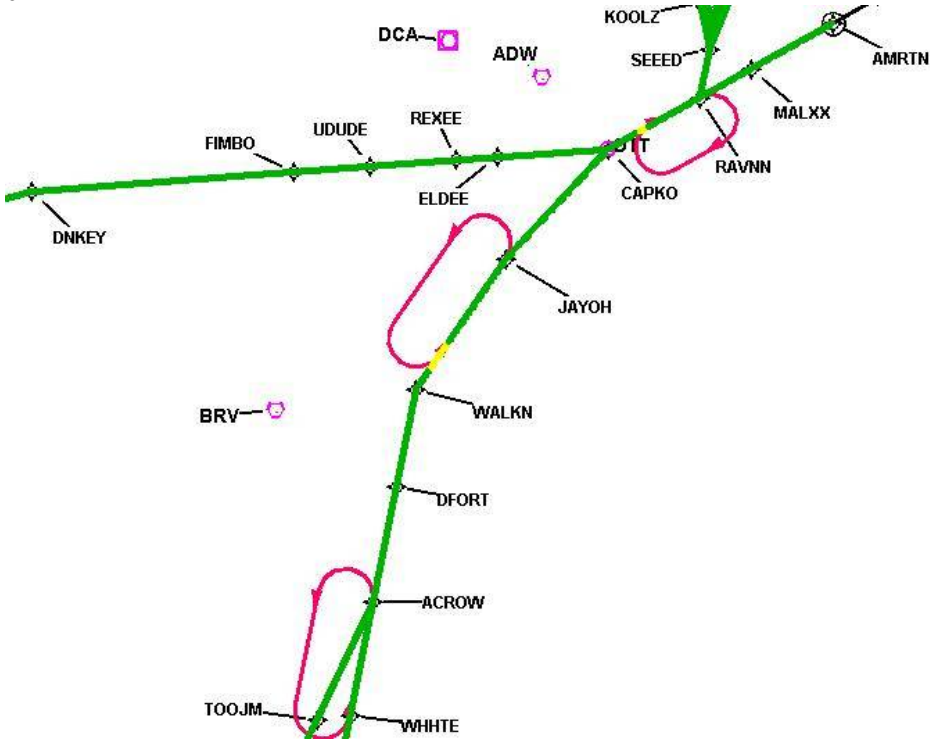
DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

Graphic Depiction 5



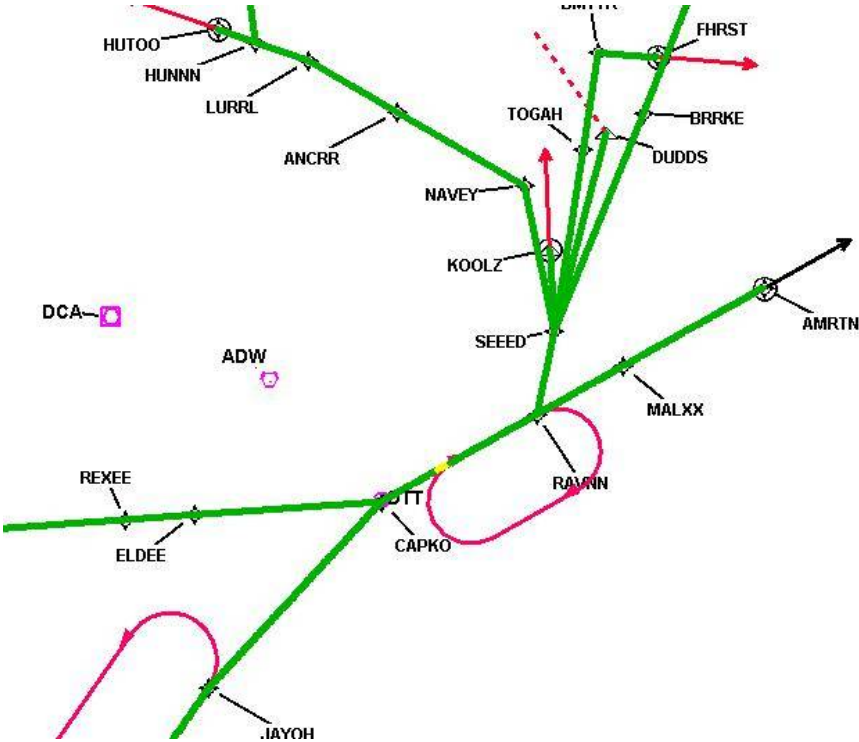
DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

Graphic Depiction 6



DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

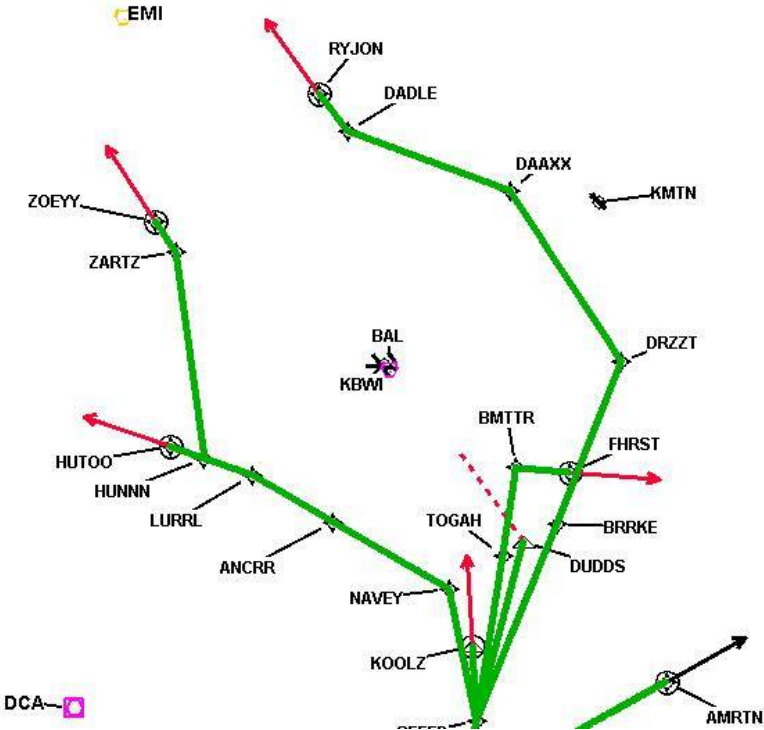
Graphic Depiction 7





DME DME Assessment Results for RAVNN8 path RAVNN\_AMRTN

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\SEED_DUDDS\KBWI RAVNN8 RNAV STAR SEED DUDDS 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
SEED	WP	N38° 50' 51.6600", W076° 33' 32.3200"	4000	VNAV	250	FLY_BY	TF
DUDDS	WP	N39° 00' 48.2100", W076° 30' 10.6100"	3000	VNAV	250	FLY_BY	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

**DME DME Assessment Results for RAVNN8 path SEED\_DUDDS**

<b>DME/DME</b>	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
5	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled		

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0	BAL	ADW	DCA	OTT		
9.6	BAL	ADW	EMI	DCA	OTT	

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
SEED	DUDDS	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW [IFPA], EMI	

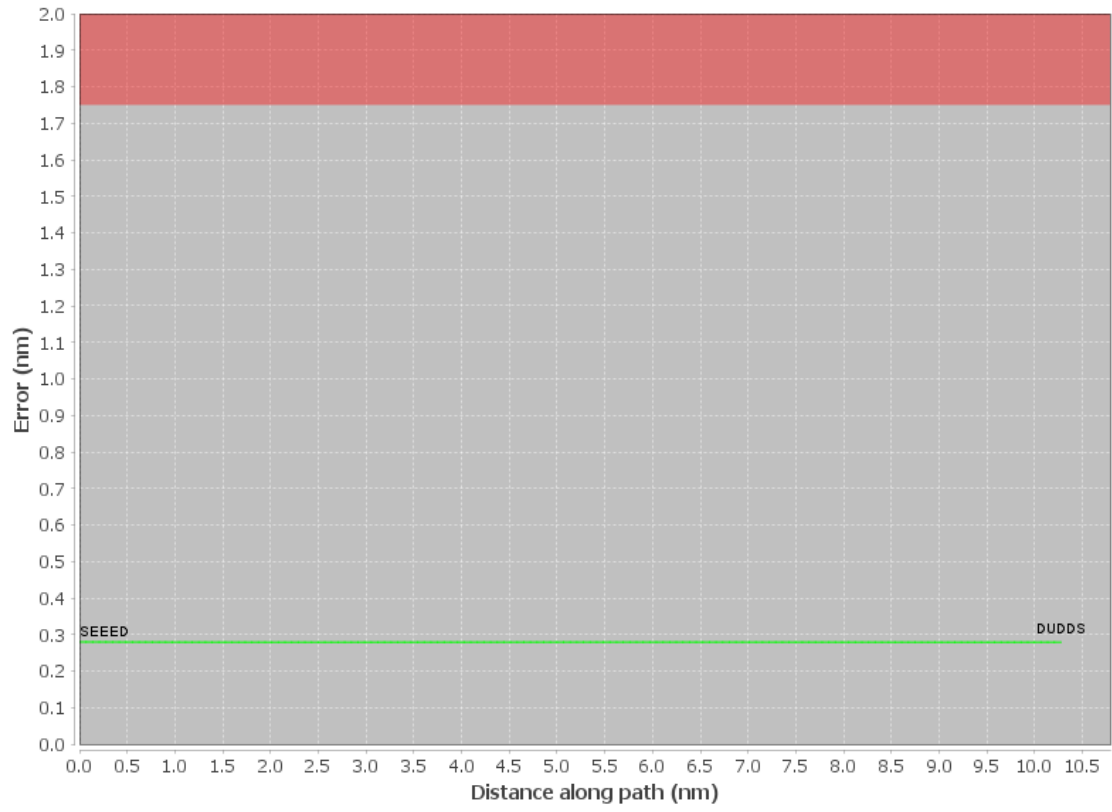


**DME DME Assessment Results for RAVNN8 path SEED\_DUDDS**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path SEEED\_DUDDS

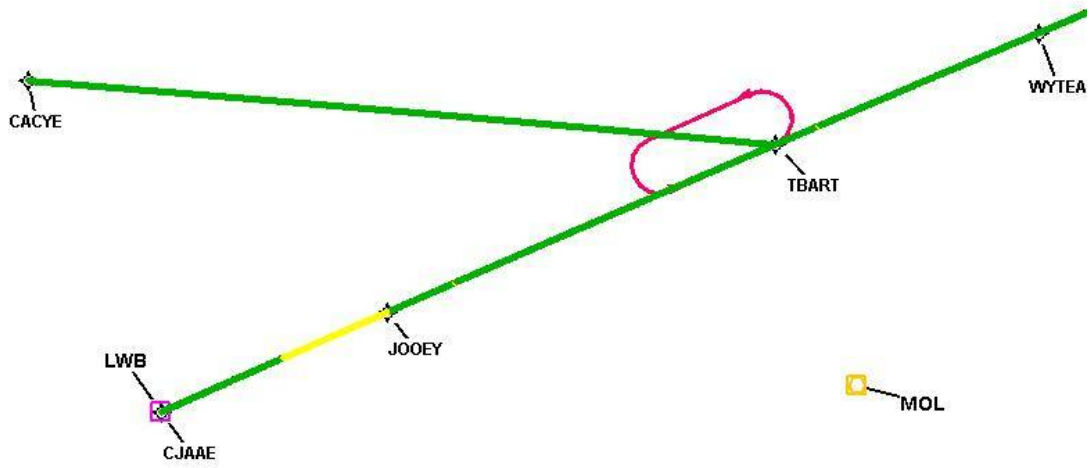
## DME Error





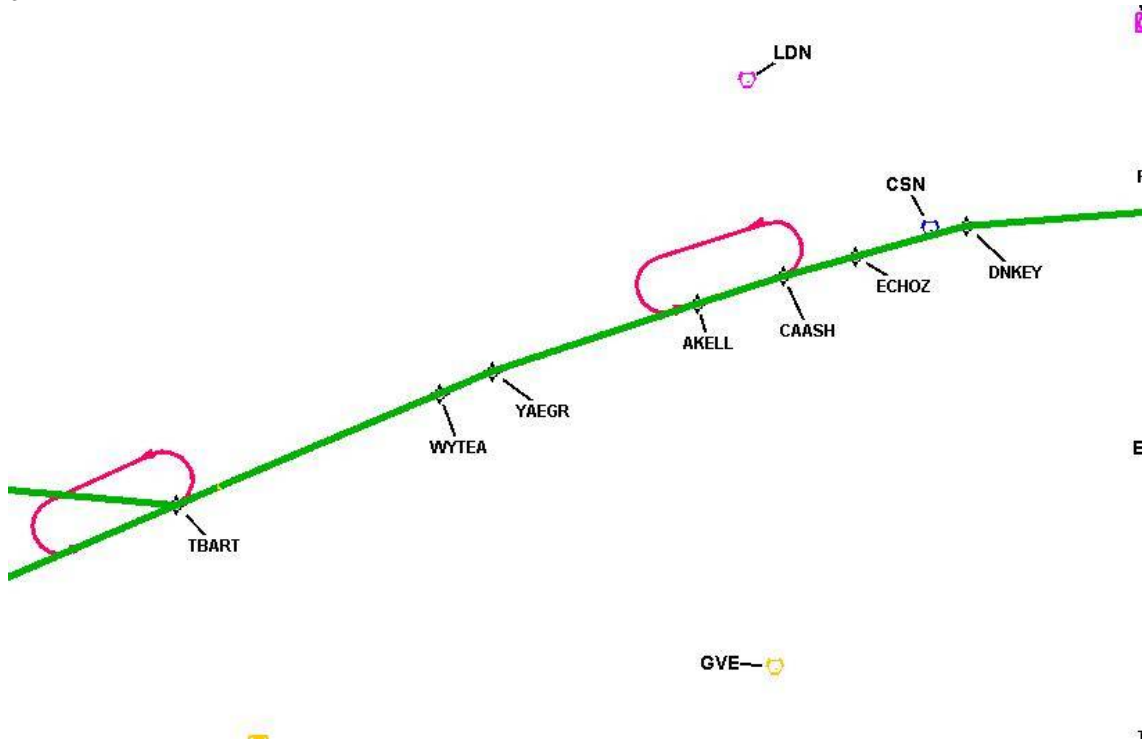
# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

Graphic Depiction 2



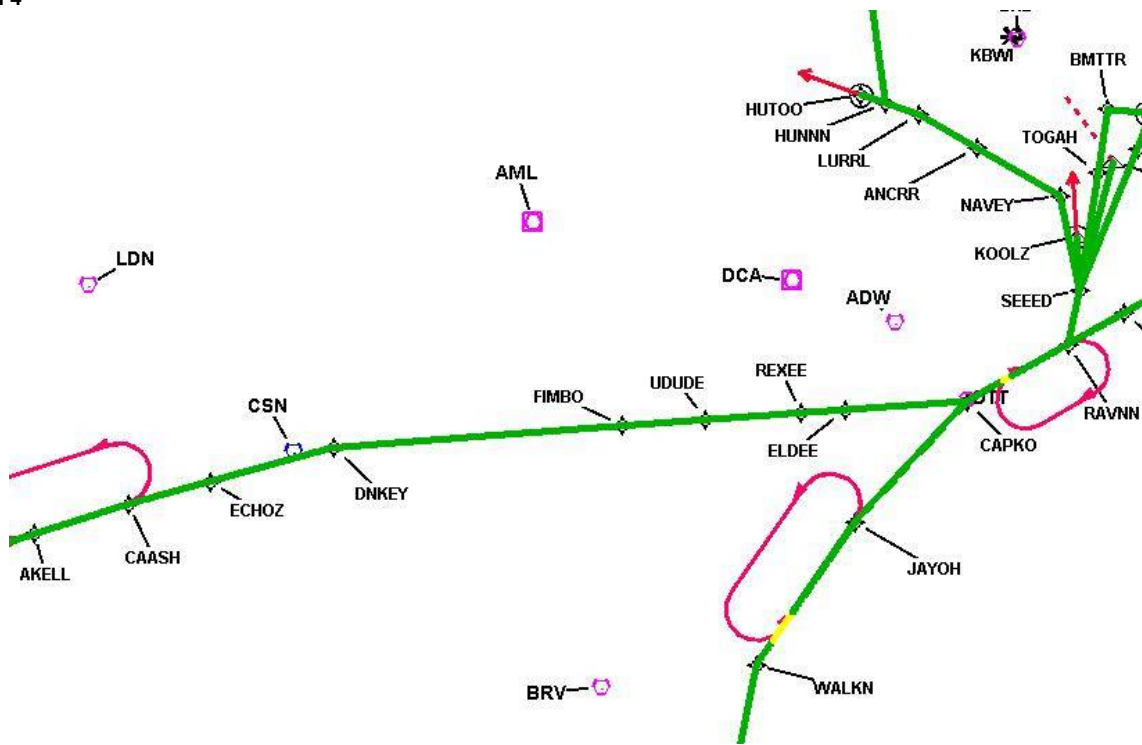
# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

Graphic Depiction 3



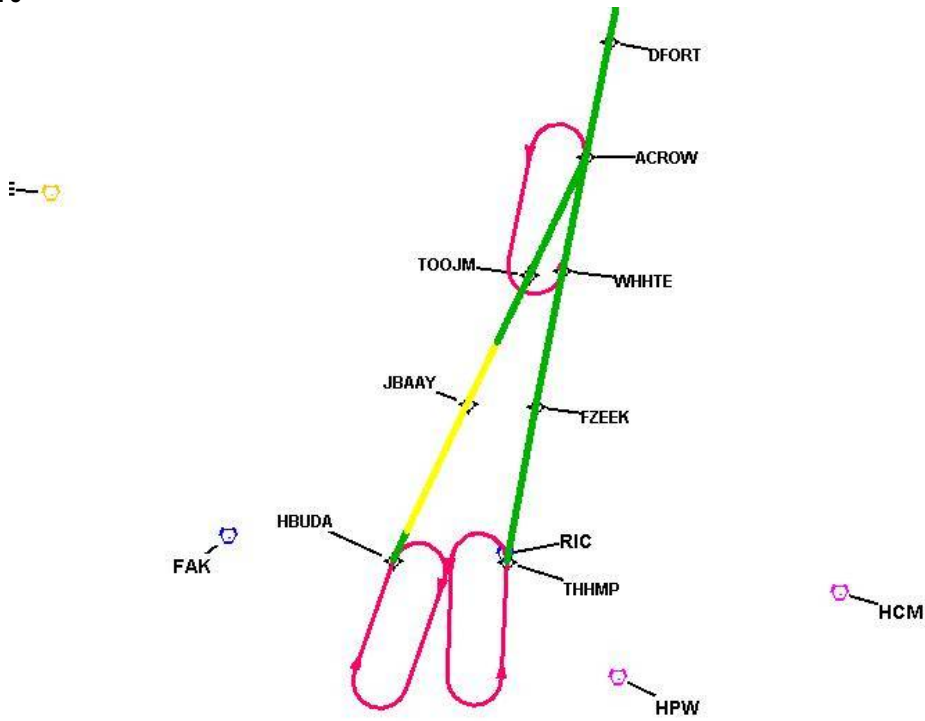
# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

Graphic Depiction 4



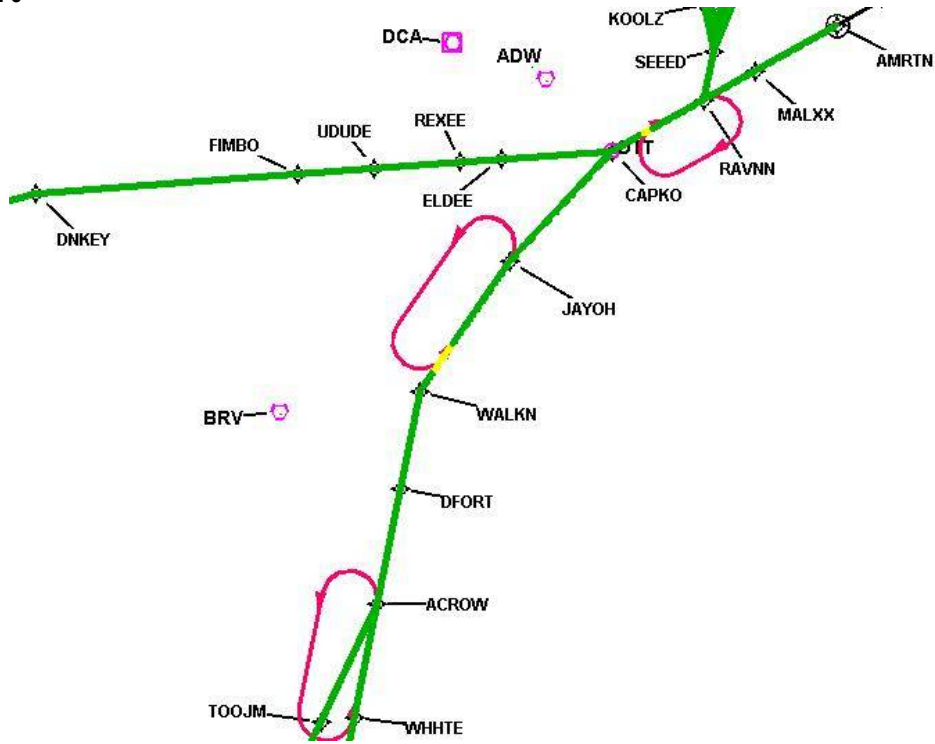
# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

Graphic Depiction 5



# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

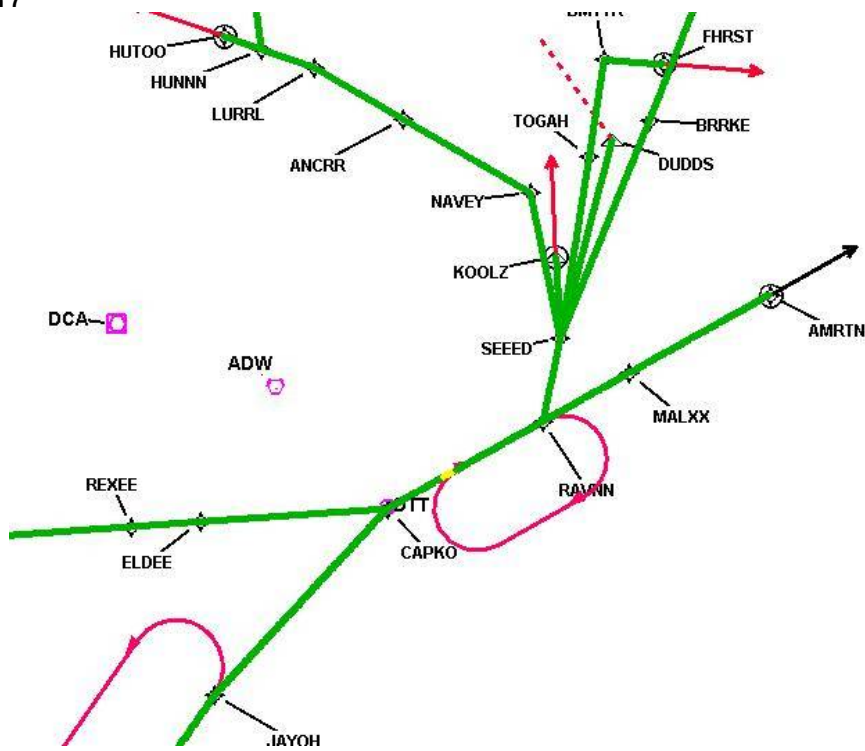
Graphic Depiction 6





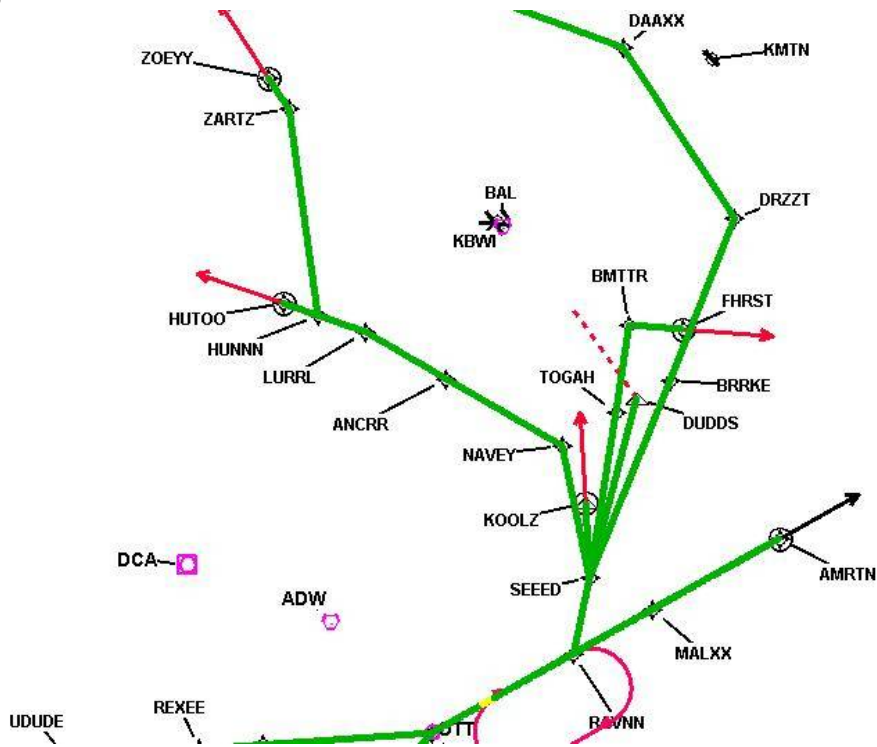
# DME DME Assessment Results for RAVNN8 path SEEED\_DUDDS

Graphic Depiction 7



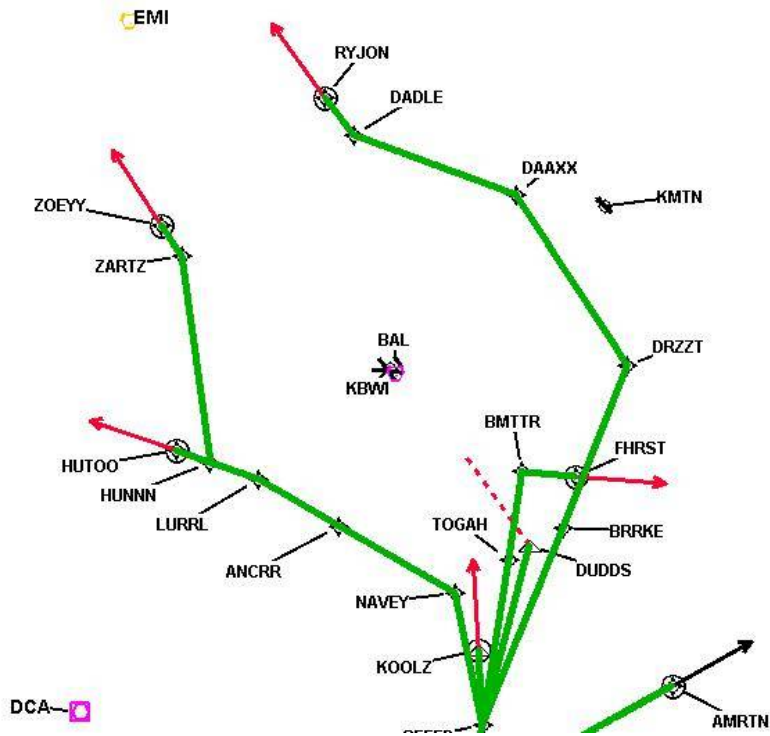
# DME DME Assessment Results for RAVNN8 path SEEED\_DUDDS

Graphic Depiction 8



# DME DME Assessment Results for RAVNN8 path SEED\_DUDDS

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path SEED\_FHRST

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\SEED_FHRST\KBWI RAVNN8 RNAV STAR SEED FHRST 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
SEED	WP	N38° 50' 51.6600", W076° 33' 32.3200"	4000	VNAV	250	FLY_BY	TF
TOGAH	WP	N39° 00' 01.2900", W076° 31' 39.4200"	4000	VNAV	210	FLY_BY	TF
BMTTR	WP	N39° 04' 52.2100", W076° 30' 42.5900"	3000	VNAV	210	FLY_BY	TF
FHRST	WP	N39° 04' 37.8000", W076° 26' 52.1800"	3000	VNAV	210	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path SEED\_FHRST

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
5	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BAL	ADW	DCA	OTT		
8.2	ADW	EMI	BAL	DCA	OTT	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
SEED	TOGAH	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW [IFPA], EMI	
TOGAH	BMTR	OTT [IFPA], BAL [IFPA], DCA [IFPA], EMI [IFPA], ADW	
BMTR	FHRST	OTT [IFPA], BAL [IFPA], DCA [IFPA], EMI [IFPA], ADW	

**DME DME Assessment Results for RAVNN8 path SEED\_FHRST**

**User Data Files**

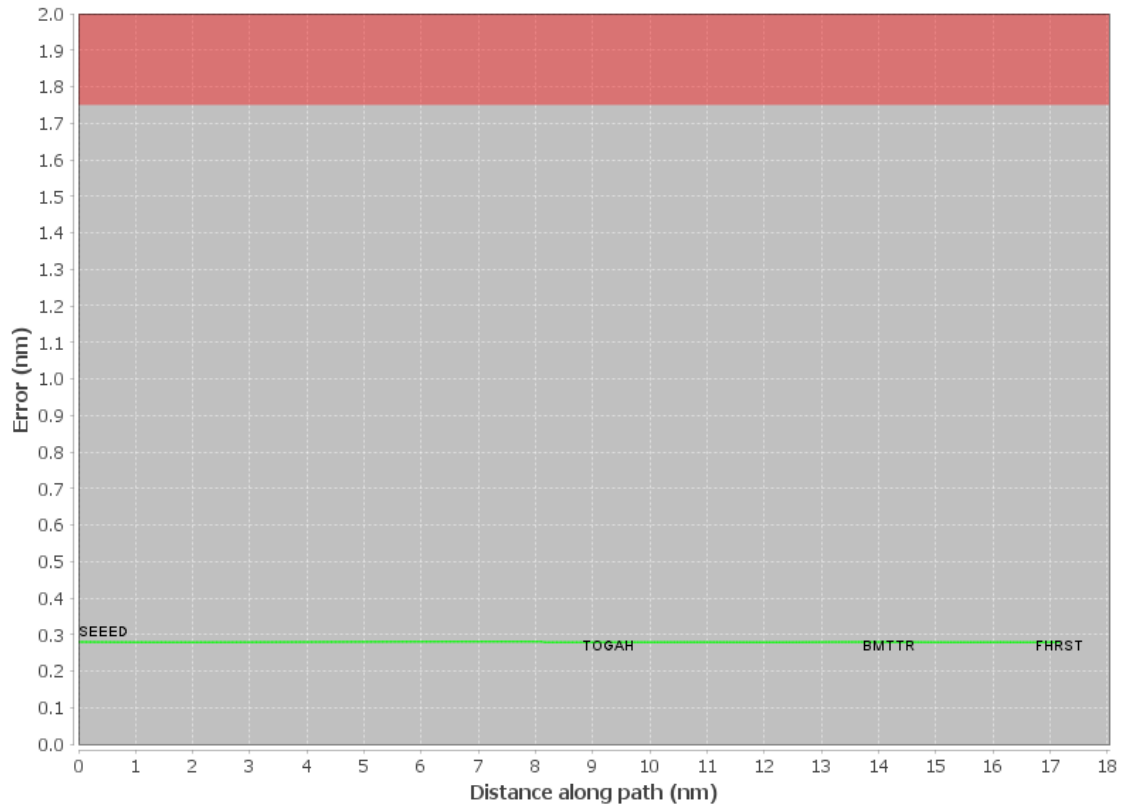
#	File Name
1	UserDMEsKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path SEED\_FHRST

## DME Error

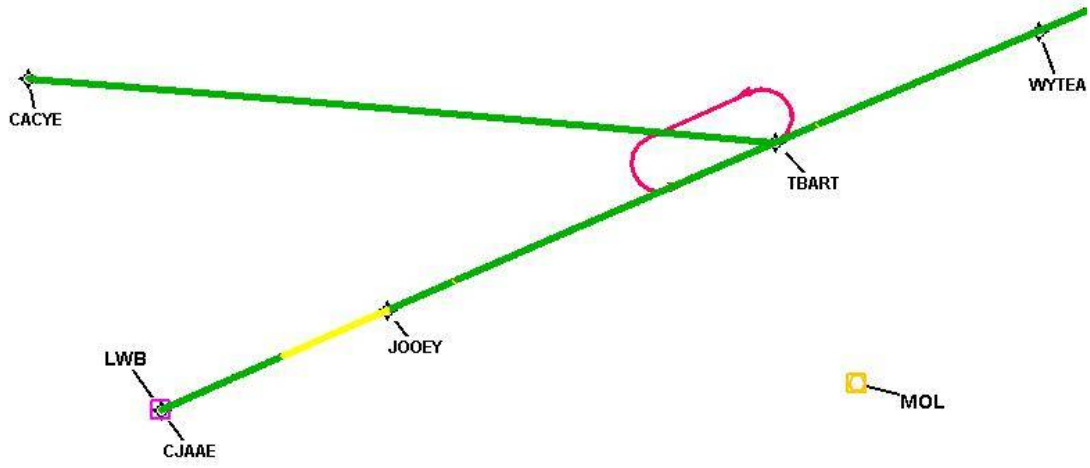






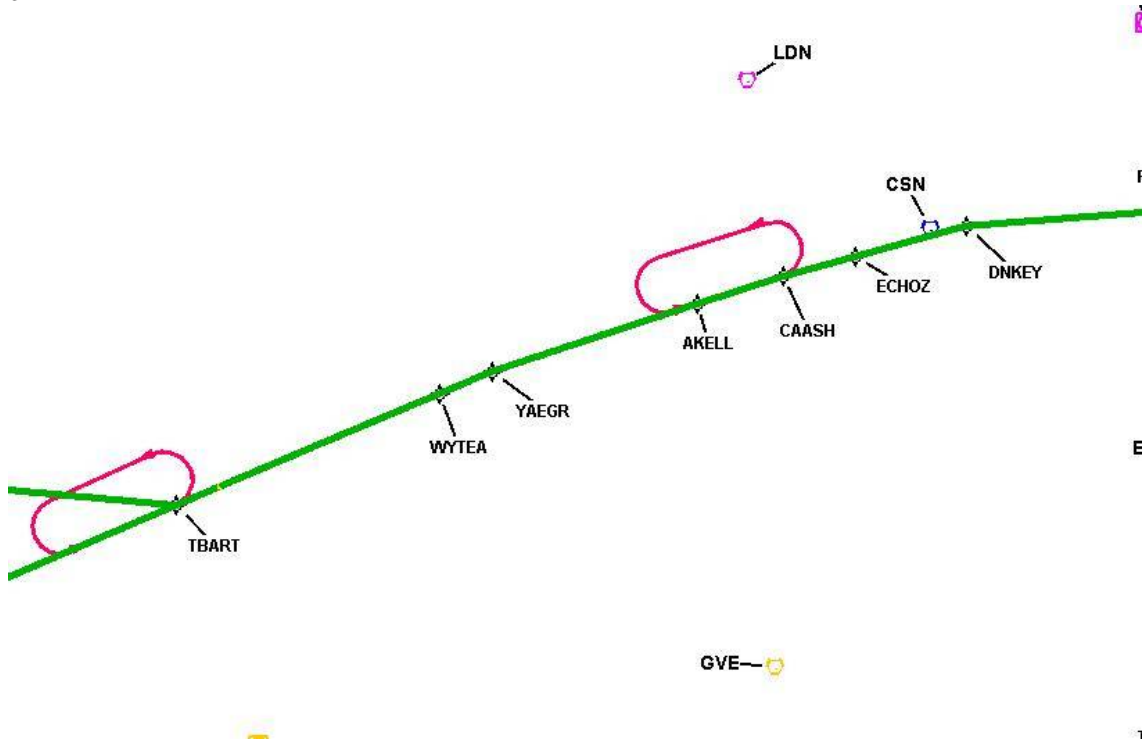
# DME DME Assessment Results for RAVNN8 path SEED\_FHRST

Graphic Depiction 2



# DME DME Assessment Results for RAVNN8 path SEEED\_FHRST

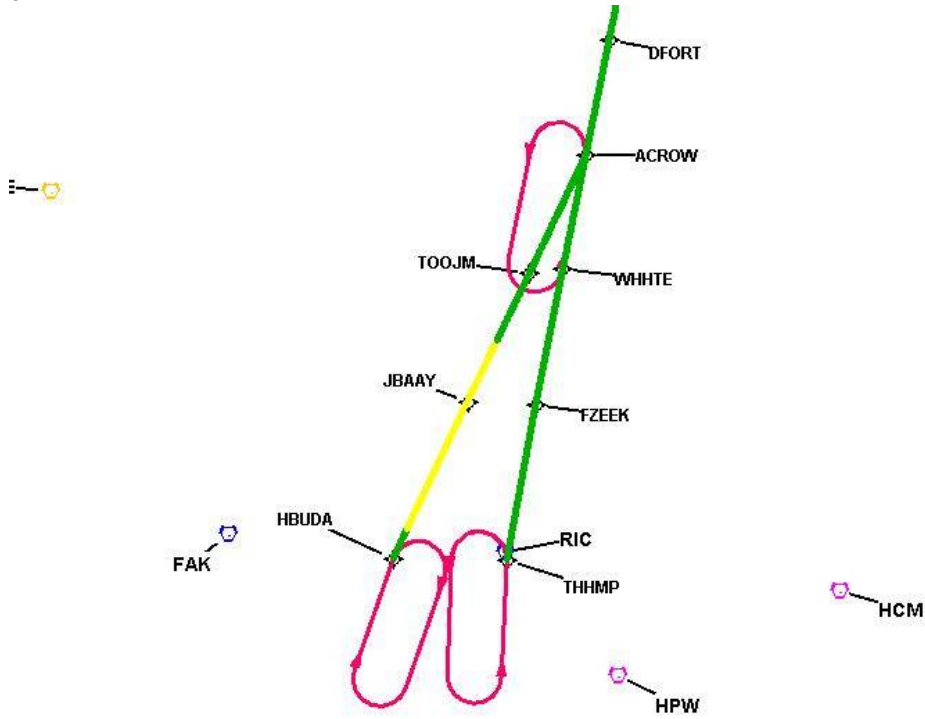
Graphic Depiction 3





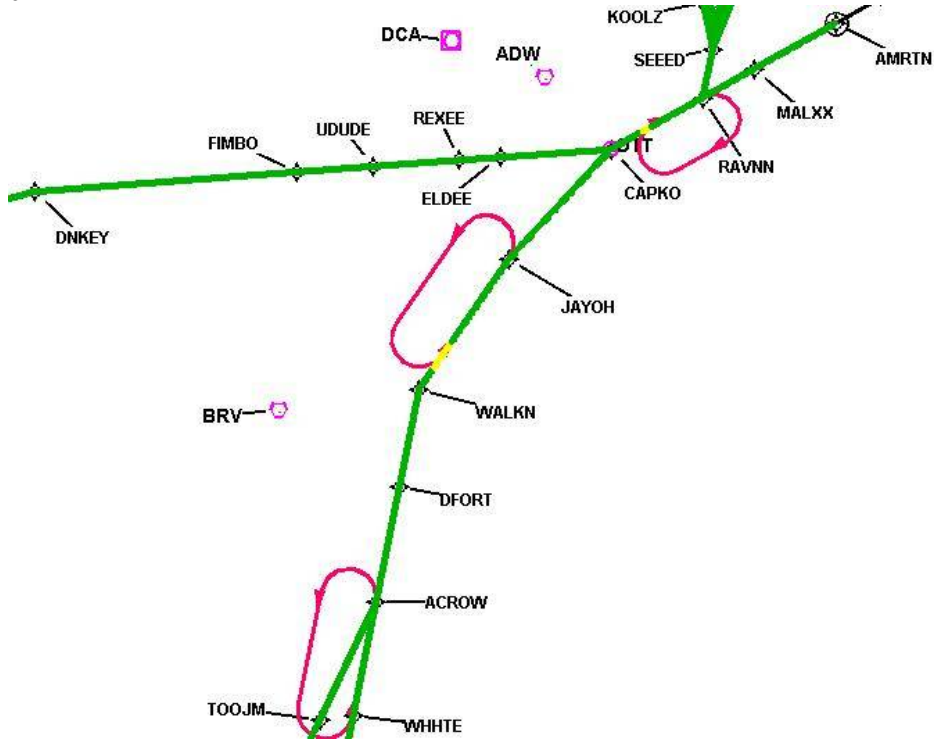
DME DME Assessment Results for RAVNN8 path SEED\_FHRST

Graphic Depiction 5



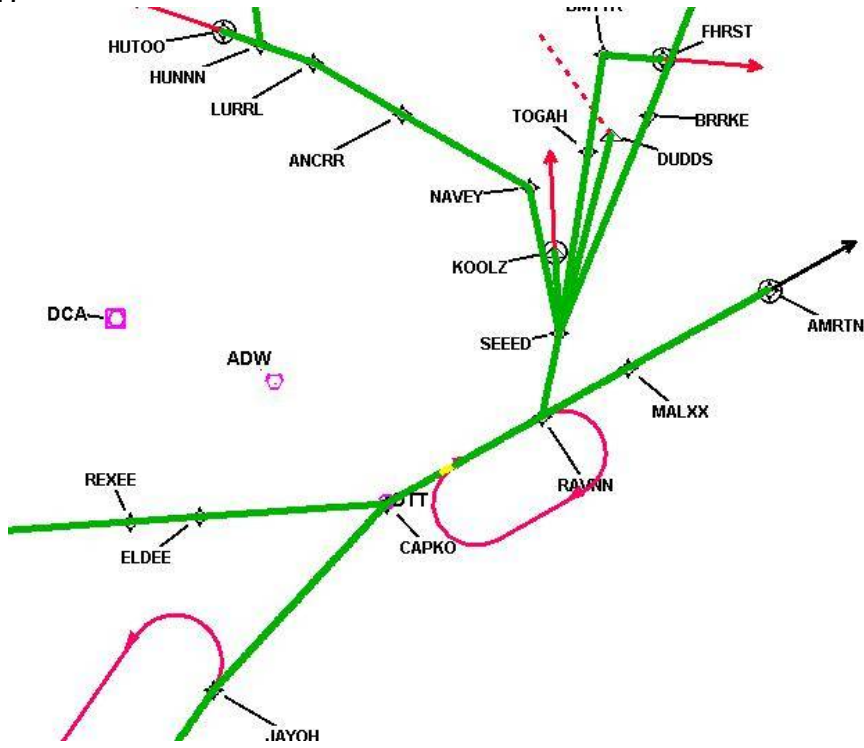
# DME DME Assessment Results for RAVNN8 path SEED\_FHRST

Graphic Depiction 6



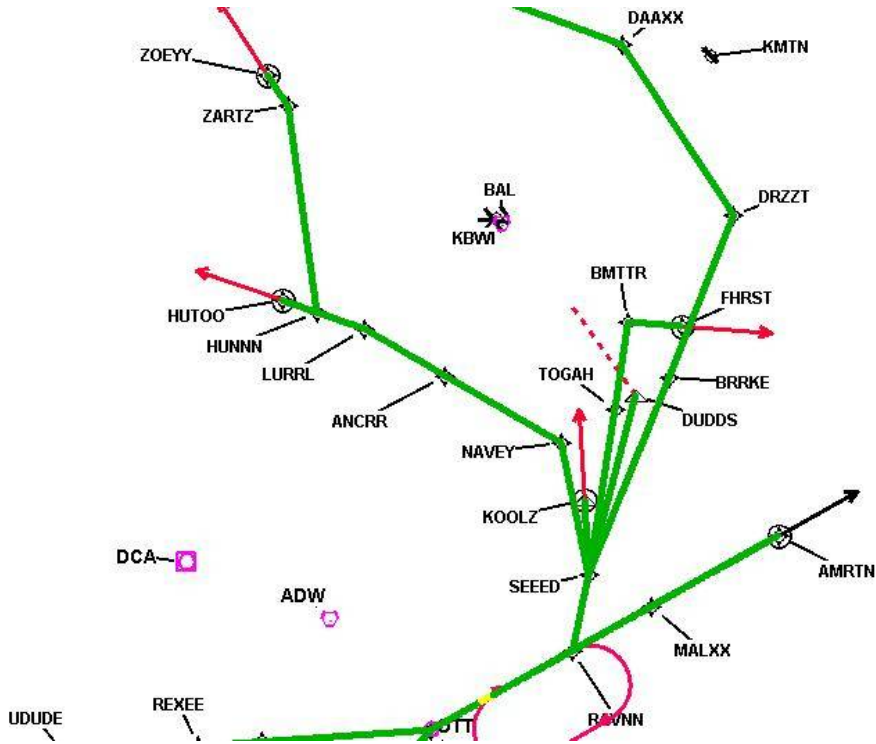
# DME DME Assessment Results for RAVNN8 path SEED\_FHRST

Graphic Depiction 7



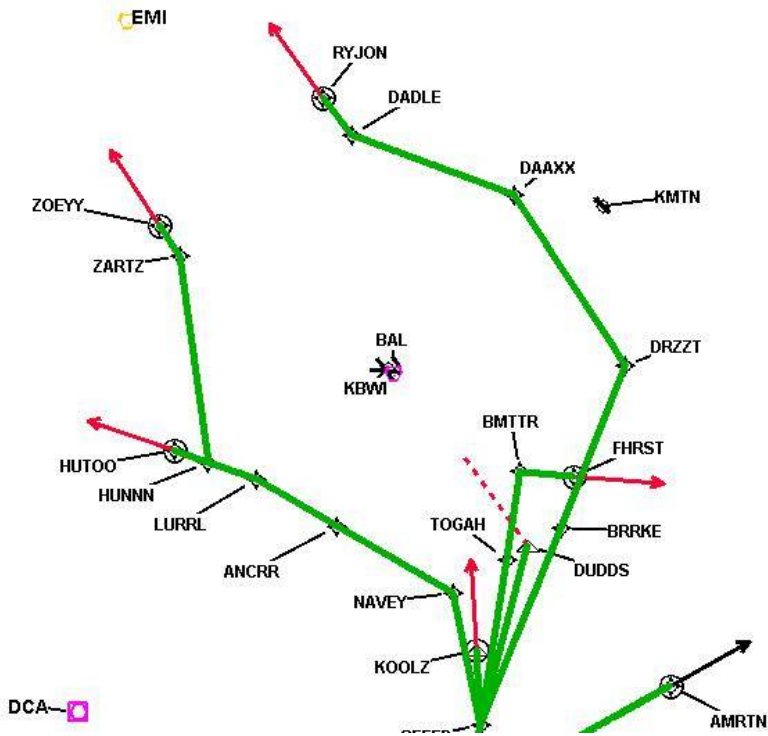
# DME DME Assessment Results for RAVNN8 path SEEED\_FHRST

Graphic Depiction 8



# DME DME Assessment Results for RAVNN8 path SEED\_FHRST

Graphic Depiction 9





## DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\SEED_KOOLZ\KBWI RAVNN8 RNAV STAR SEED KOOLZ 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

### Failures

No Failures

### Warnings

No Warnings

### Informational

No Informational

### Notes For Flight Check

None

### Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
SEED	WP	N38° 50' 51.6600", W076° 33' 32.3200"	4000	VNAV	250	FLY_BY	TF
KOOLZ	WP	N38° 54' 59.7800", W076° 33' 49.2000"	4000	VNAV	210	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BAL	ADW	DCA	OTT		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

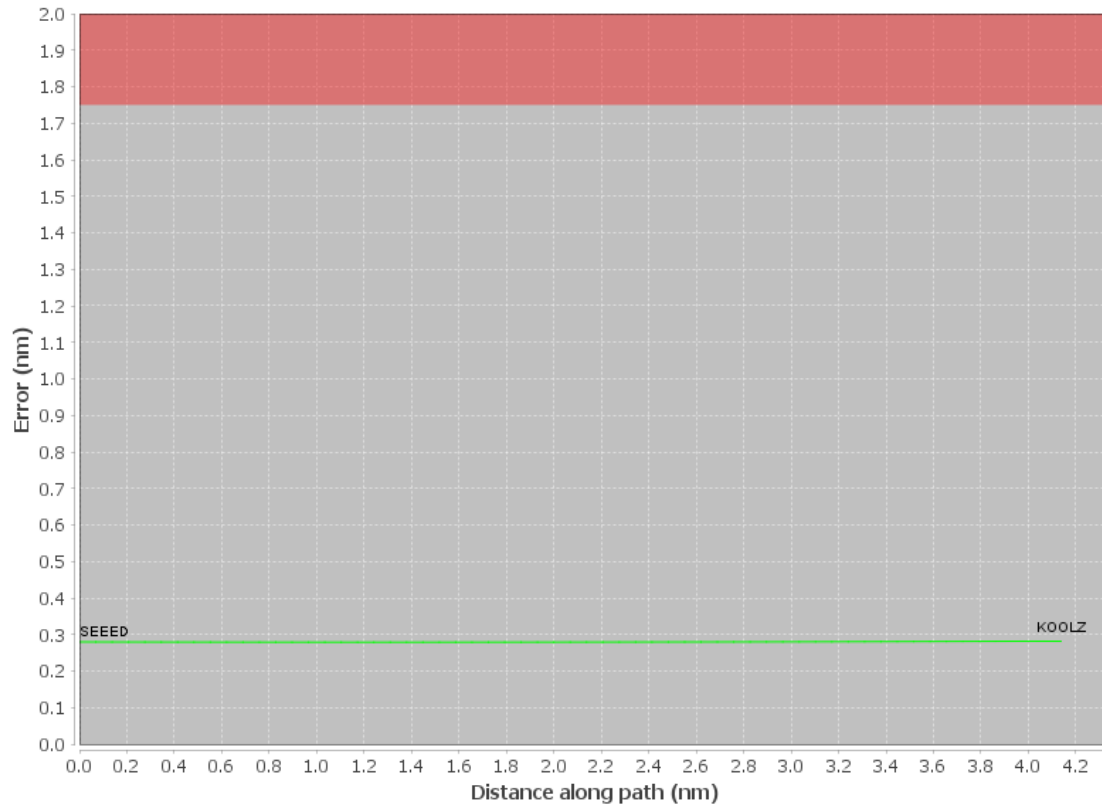
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
SEED	KOOLZ	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW	

**DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ**

<b>User Data Files</b>								
#	File Name							
1	UserDMESKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt							
<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

# DME DME Assessment Results for RAVNN8 path SEEED\_KOOLZ

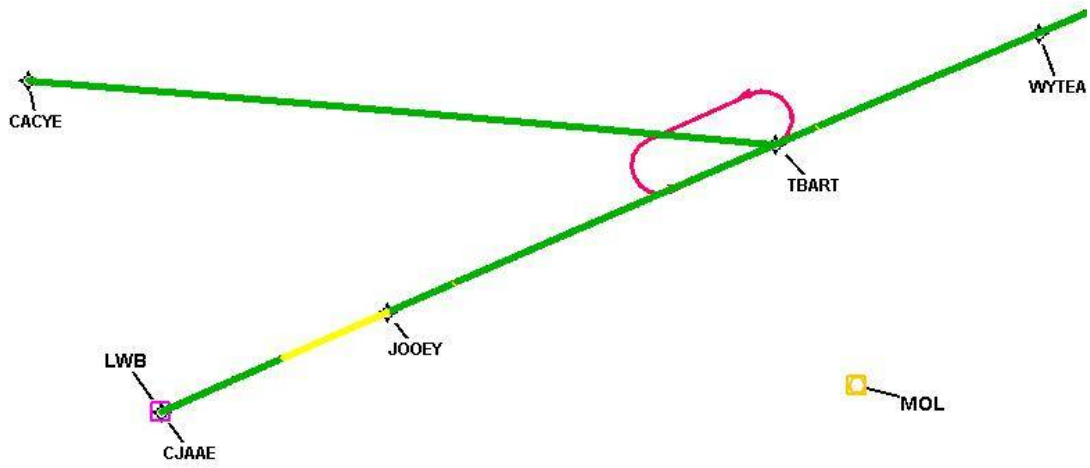
## DME Error





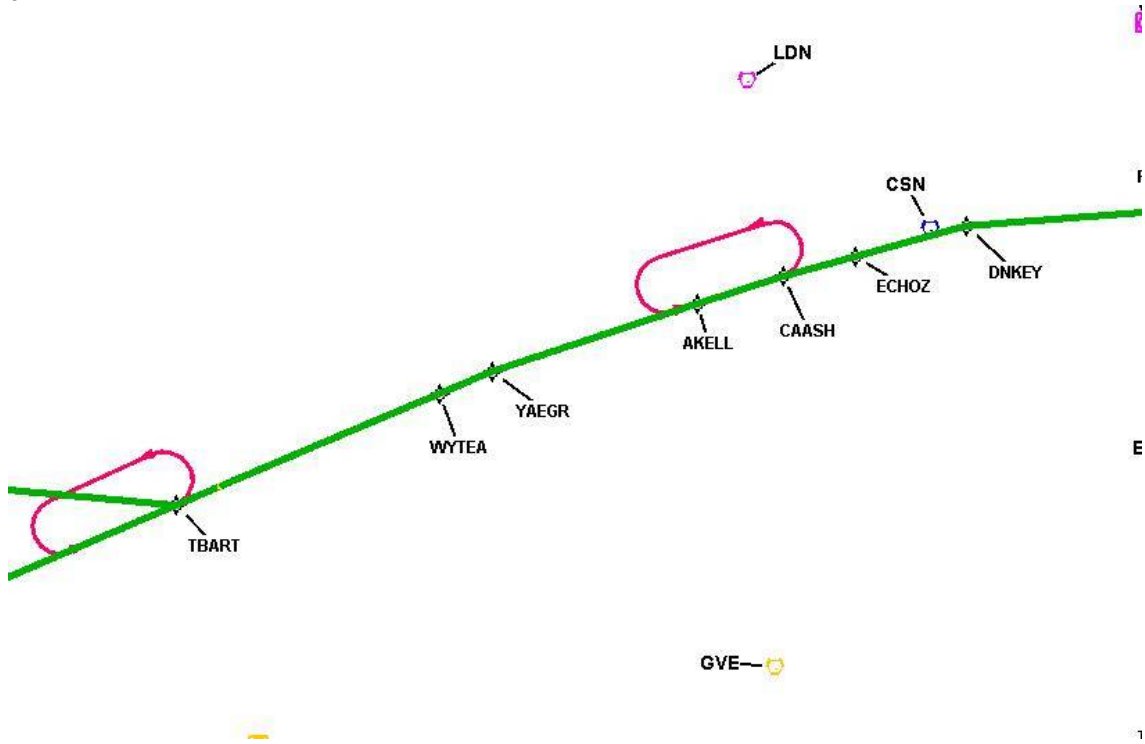
# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

Graphic Depiction 2



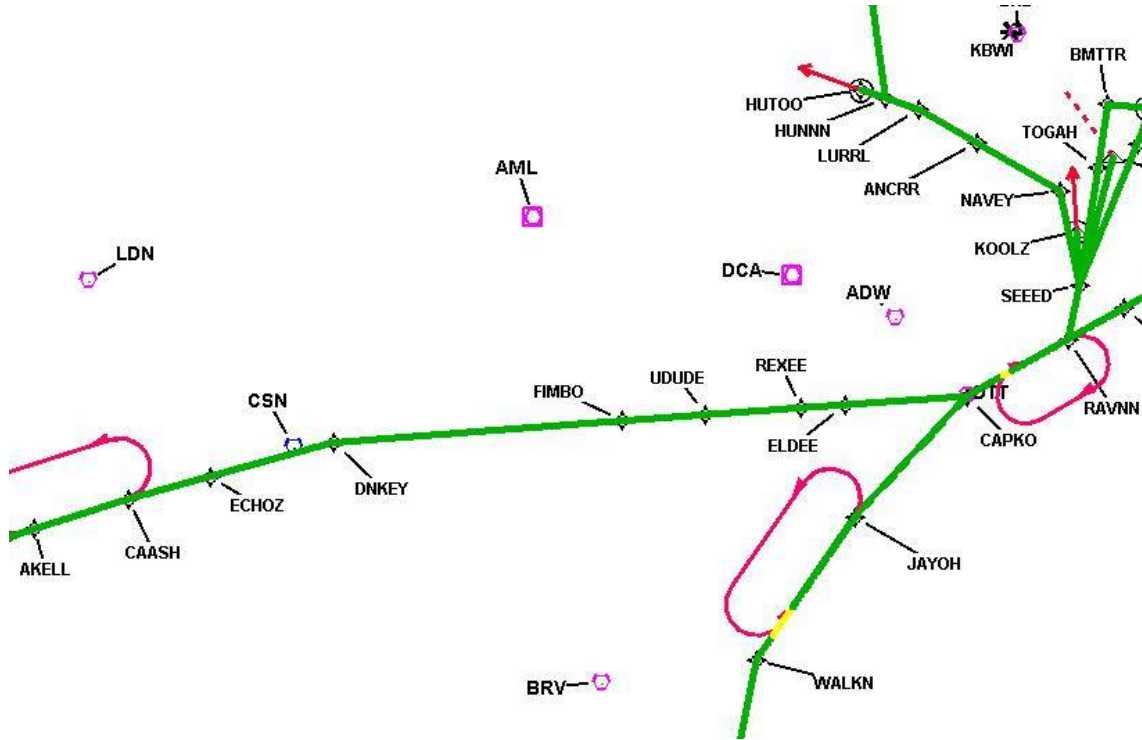
# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

Graphic Depiction 3



# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

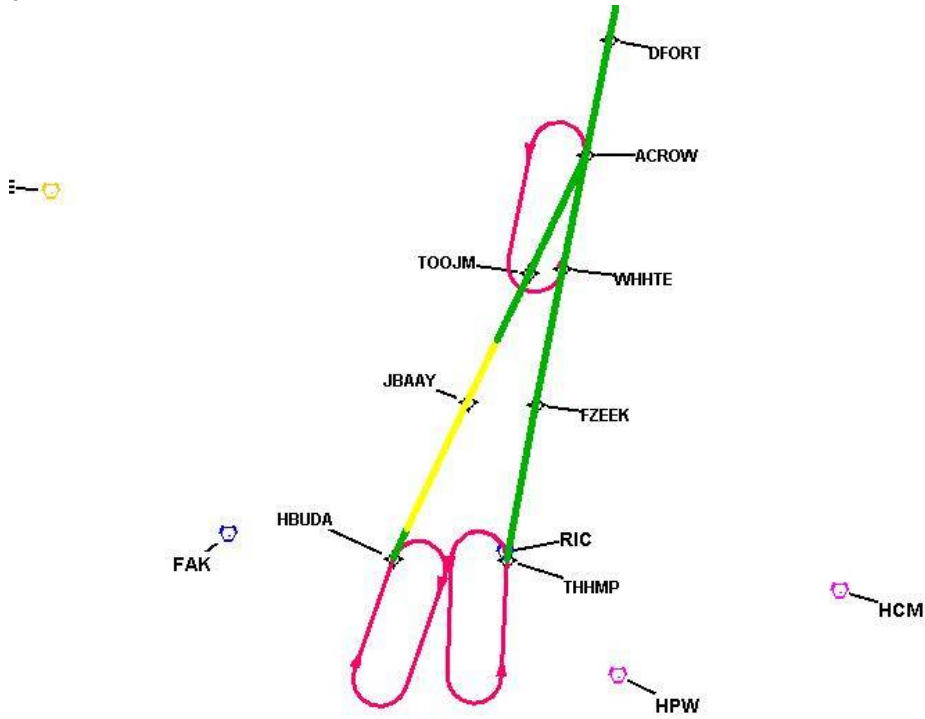
Graphic Depiction 4





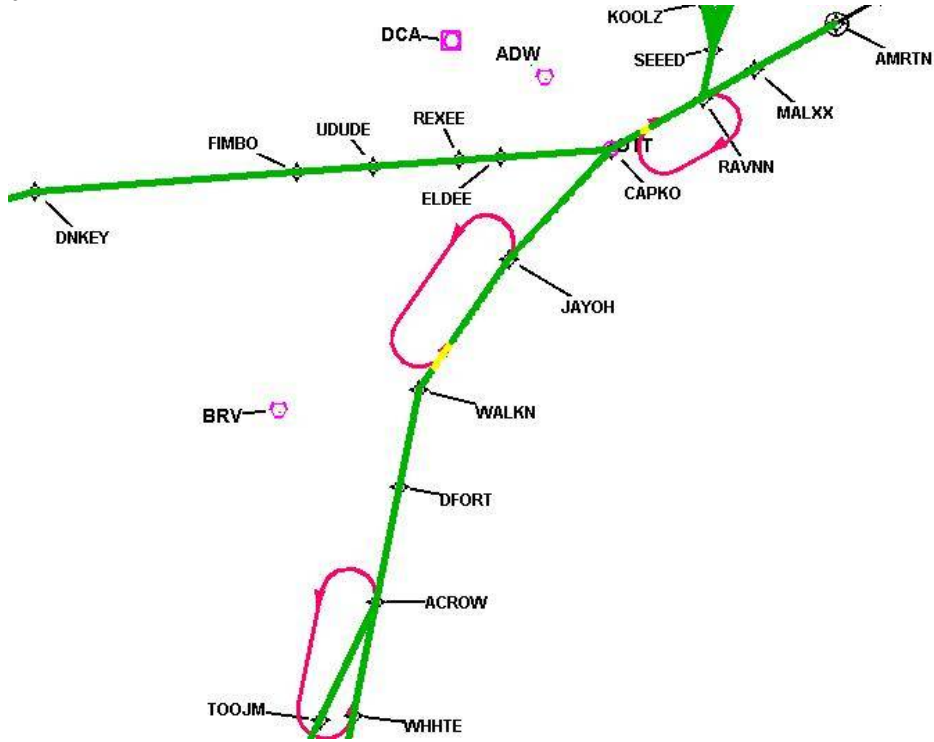
# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

Graphic Depiction 5



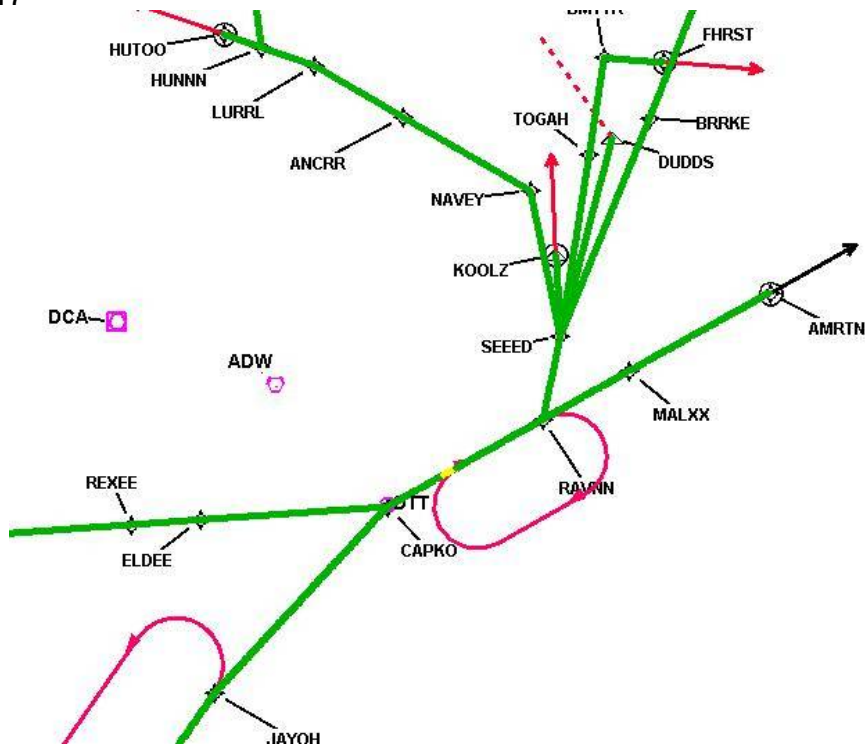
# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

Graphic Depiction 6



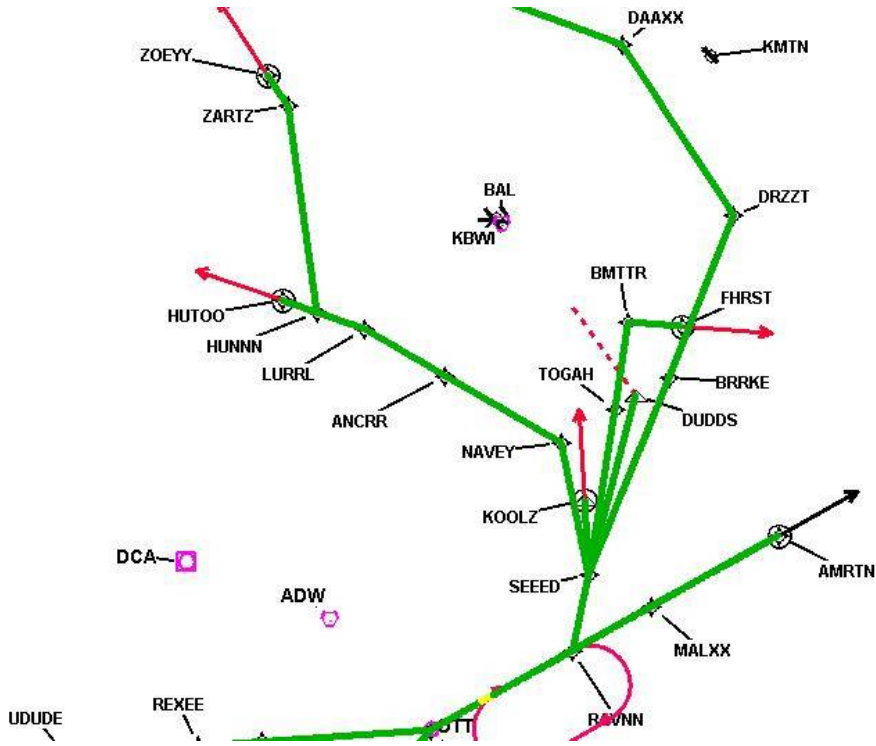
# DME DME Assessment Results for RAVNN8 path SEED\_KOOLZ

Graphic Depiction 7



# DME DME Assessment Results for RAVNN8 path SEEED\_KOOLZ

Graphic Depiction 8





## DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\SEED_RYJON\KBWI RAVNN8 RNAV STAR SEED RYJON 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
None

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
SEED	WP	N38° 50' 51.6600", W076° 33' 32.3200"	4000	VNAV	250	FLY_BY	TF
BRRKE	WP	N39° 01' 47.7900", W076° 27' 45.3400"	3000	VNAV	250	FLY_BY	TF
DRZZT	WP	N39° 10' 44.4000", W076° 23' 10.5200"	3000	VNAV	250	FLY_BY	TF
DAAXX	WP	N39° 20' 09.9400", W076° 31' 09.0300"	3000	VNAV	250	FLY_BY	TF
DADLE	WP	N39° 23' 27.8800", W076° 42' 43.5000"	3000	VNAV	210	FLY_BY	TF
RYJON	WP	N39° 25' 31.5700", W076° 44' 43.8100"	3000	VNAV	210	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path SEED\_RYJON

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.1352", W076° 44' 41.0854"	10.0 W	40	L	IFPA	NO	Enabled		
2	BAL	N39° 10' 15.8283", W076° 39' 40.5225"	11.0 W	40	L	IFPA	NO	Enabled		
3	DCA	N38° 51' 34.0300", W077° 02' 11.1700"	9.0 W	40	L	IFPA	NO	Enabled		
4	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		
5	EMI	N39° 29' 42.0266", W076° 58' 42.8591"	8.0 W	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BAL	ADW	DCA	OTT		
12.7	OTT	BAL	ADW	EMI	DCA	
25.5	ADW	EMI	OTT	BAL		
28.7	ADW	EMI	BAL			
37.3	ADW	EMI	DCA	BAL		
41.7	DCA	EMI	ADW			
44.1	DCA	EMI				
44.8						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 25' 28.8217", W076° 44' 41.1352"	N39° 25' 31.5700", W076° 44' 43.8100"	0.0573

## DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
SEED	BRRKE	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW	
BRRKE	DRZZT	OTT [IFPA], BAL [IFPA], DCA [IFPA], ADW [IFPA], EMI	
DRZZT	DAAXX	OTT [IFPA], BAL [IFPA], EMI [IFPA], ADW [IFPA], DCA	
DAAXX	DADLE	BAL [IFPA], EMI [IFPA], ADW [IFPA], DCA	
DADLE	RYJON	ADW [IFPA], EMI [IFPA], DCA	

### User Data Files

#	File Name
1	UserDMEsKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt

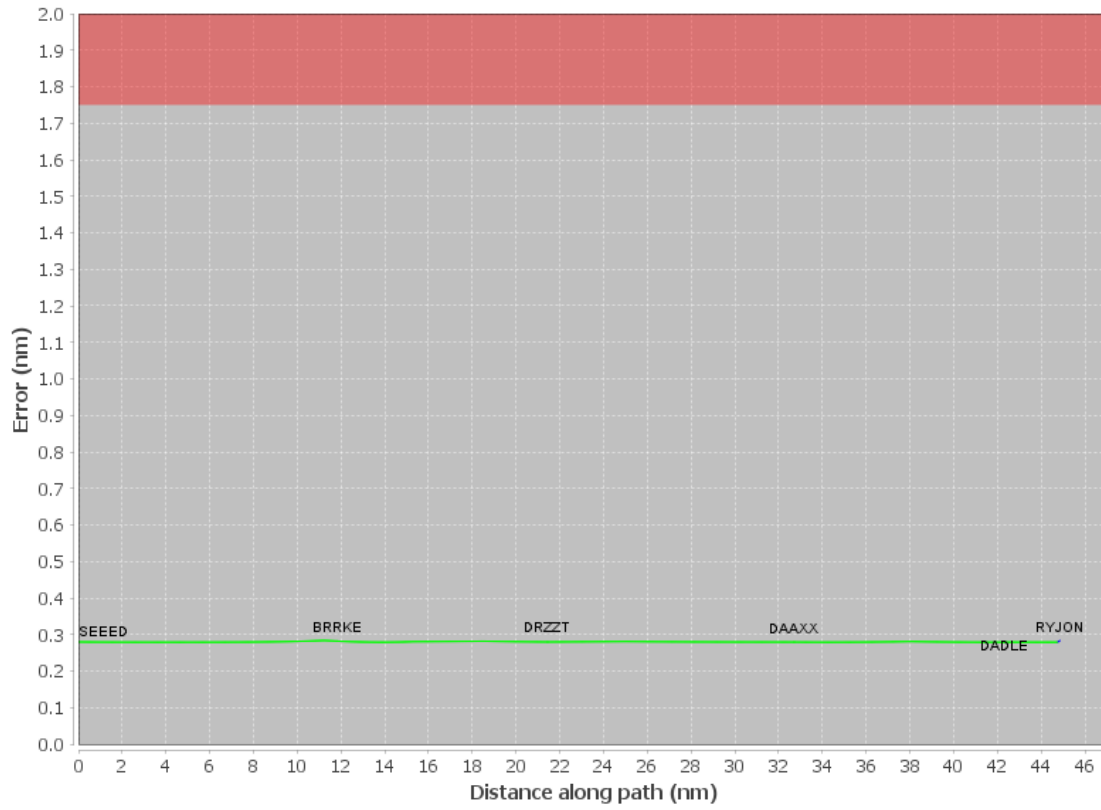
### User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
		ESV: Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
		ESV: Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
		ESV: Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
		ESV: Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
		ESV: Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
		ESV: Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
		ESV: Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
		ESV: Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		



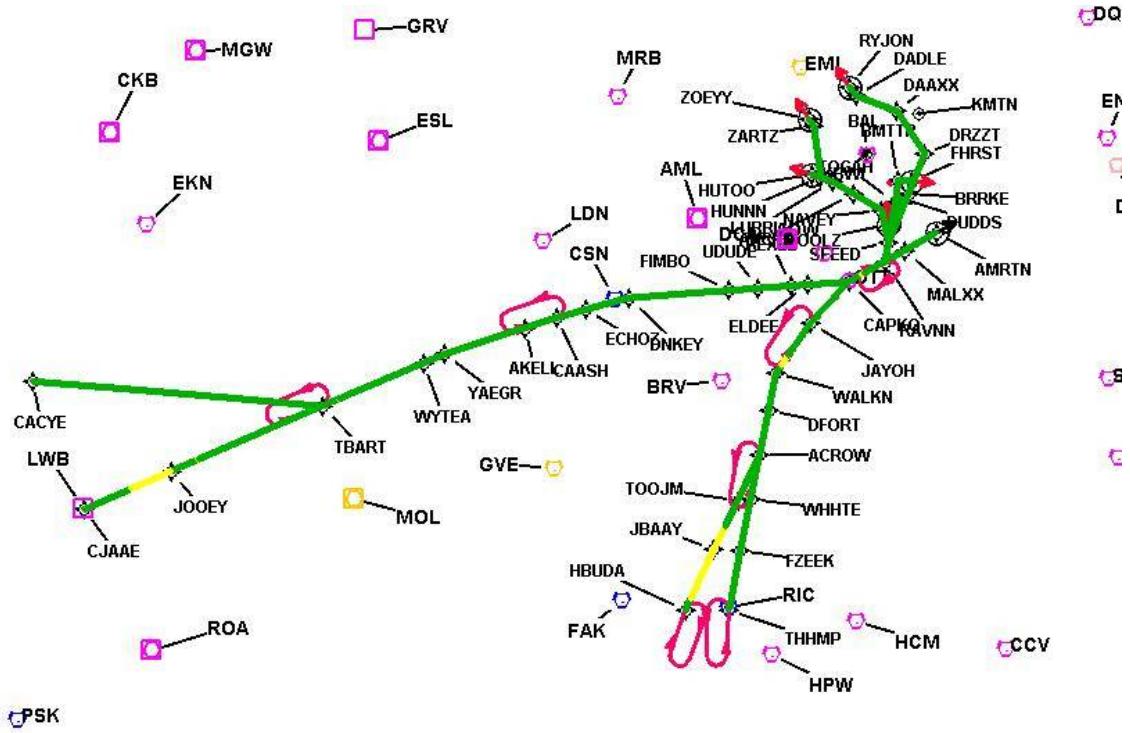
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

## DME Error



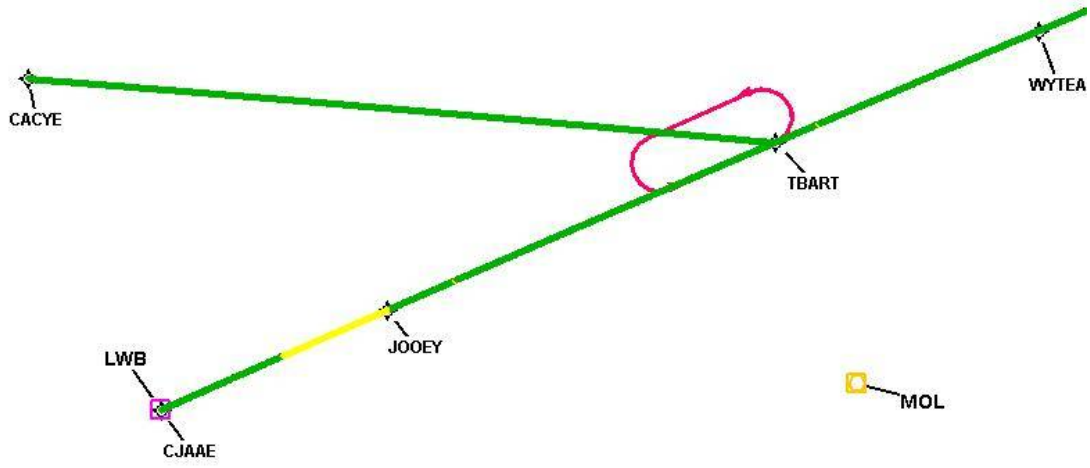
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 1



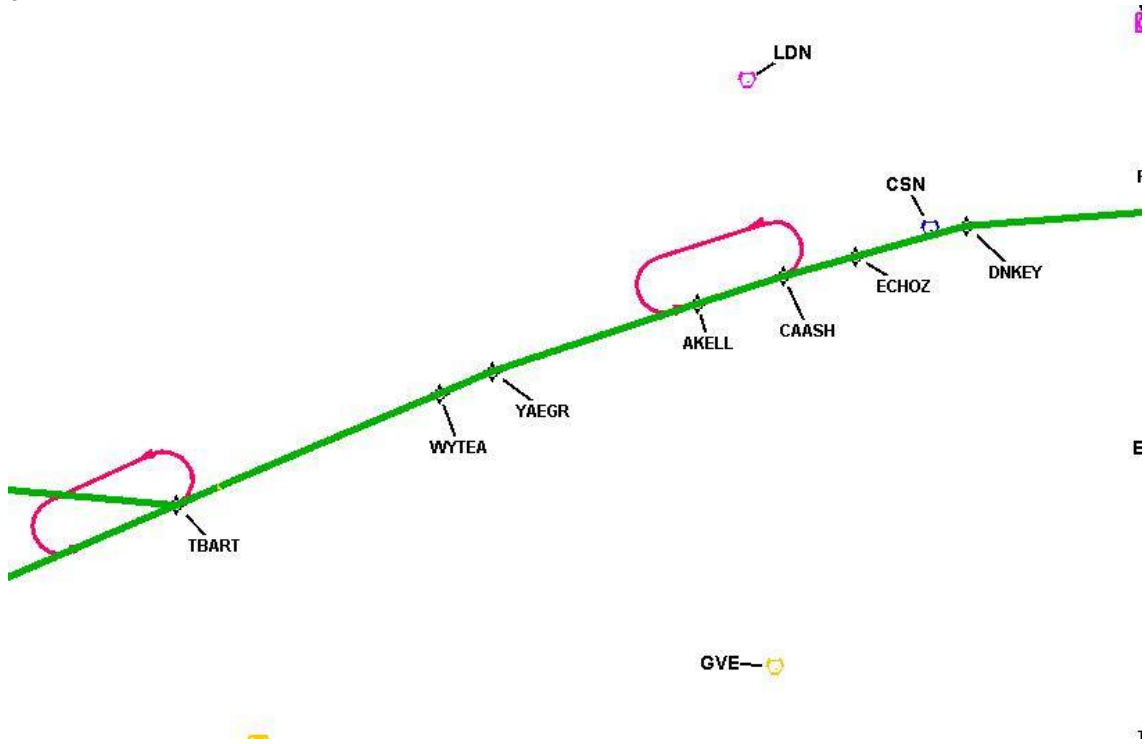
DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 2



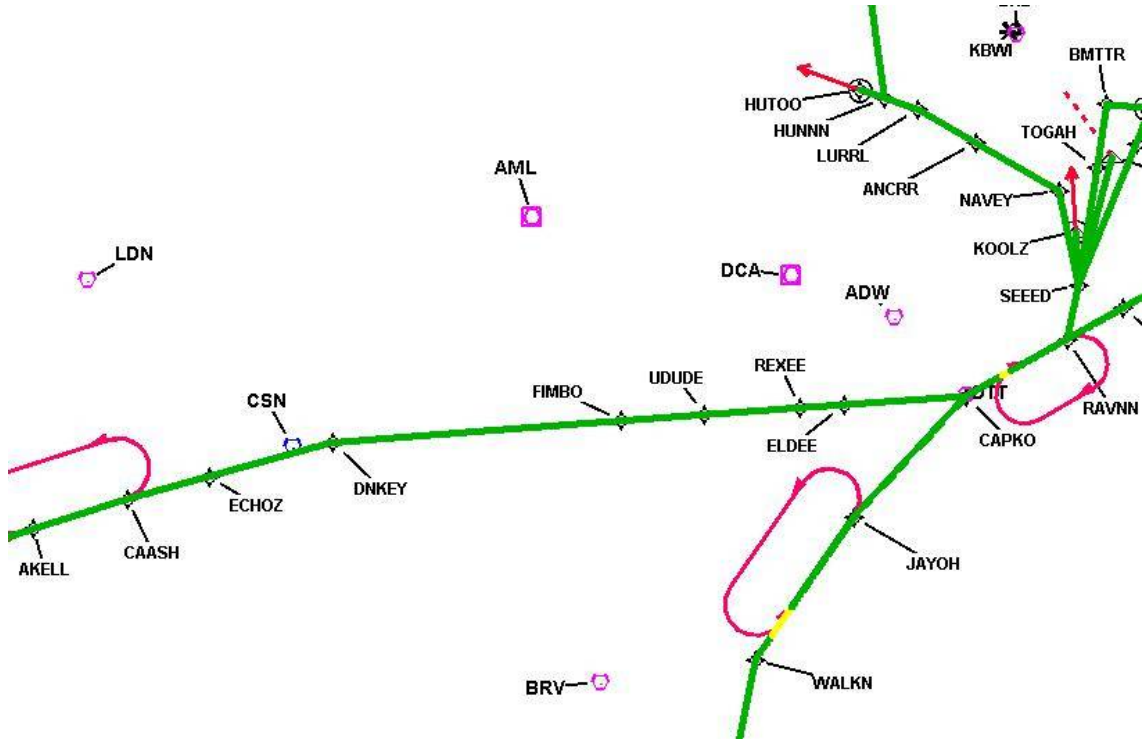
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 3



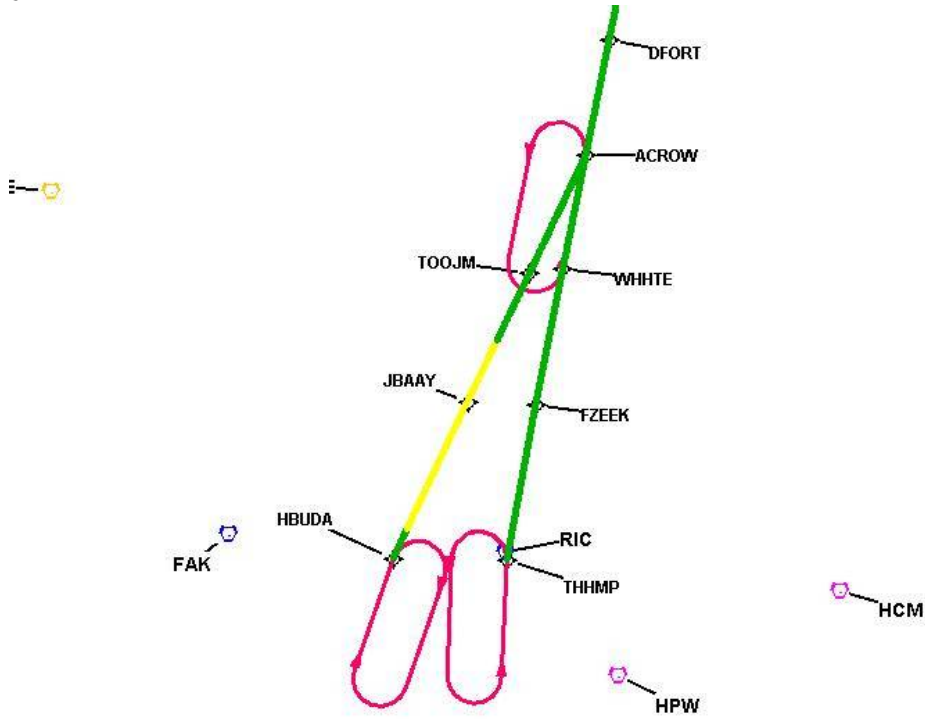
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 4



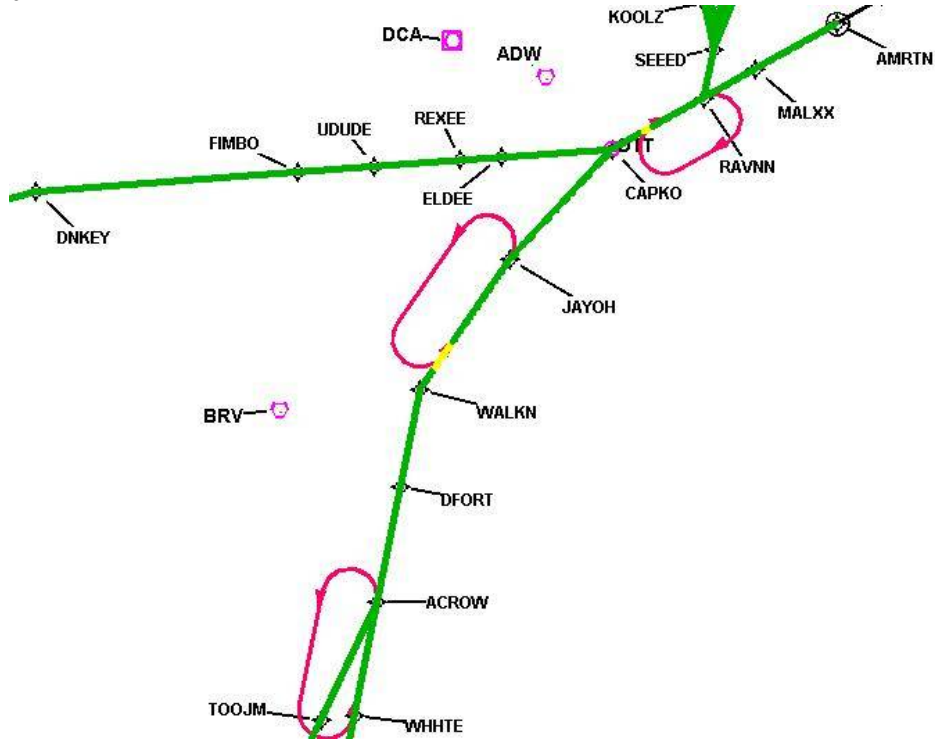
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 5



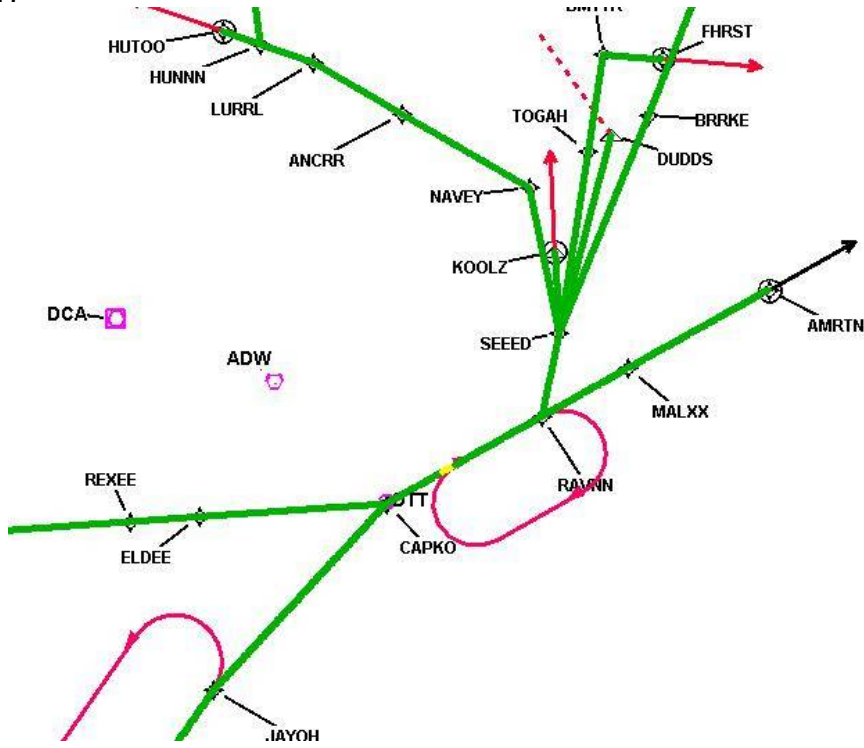
# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 6



# DME DME Assessment Results for RAVNN8 path SEED\_RYJON

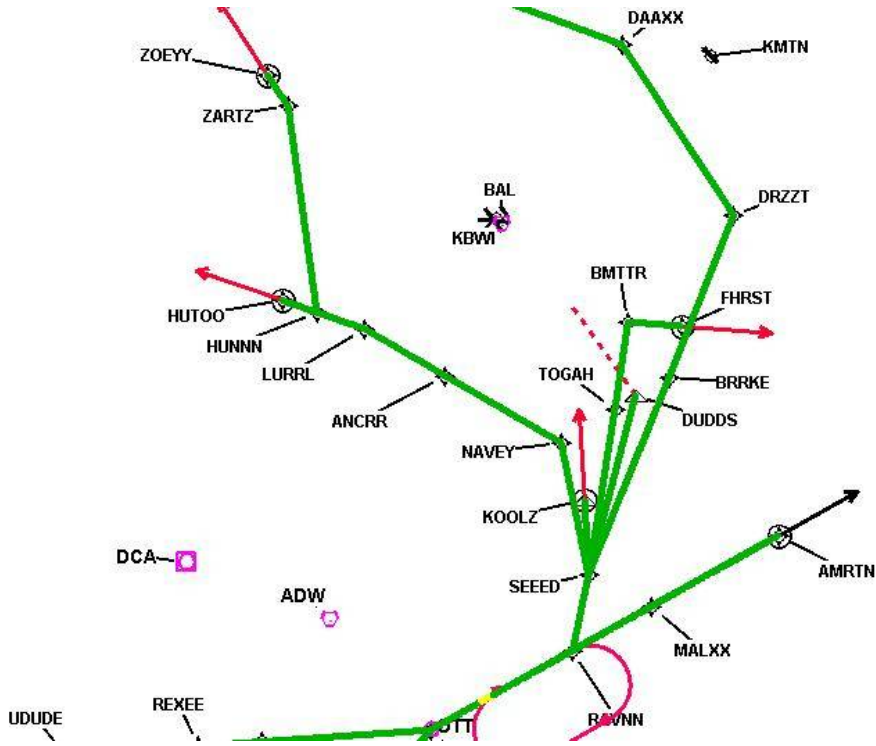
Graphic Depiction 7





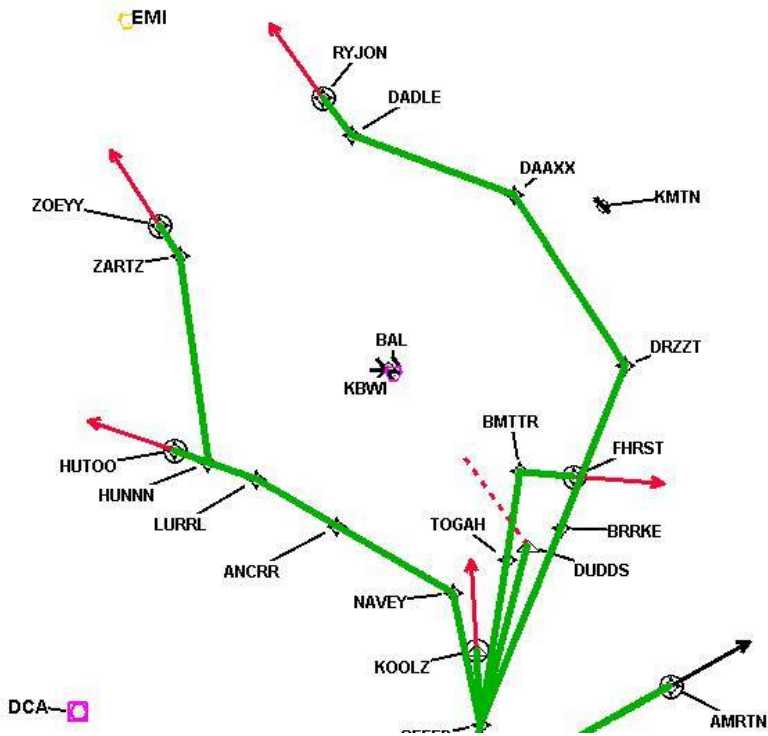
# DME DME Assessment Results for RAVNN8 path SEEED\_RYJON

Graphic Depiction 8



DME DME Assessment Results for RAVNN8 path SEED\_RYJON

Graphic Depiction 9



## DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	David C-CTR Cook
Project File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 (RNAV) STAR_20241003_DME-DME.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\2-20-2025 PUBLICATION\KBWI RAVNN8 (RNAV) STAR\10-3-2024\VERSION 2\KBWI RAVNN8 20241003_1343 EDT\THHMP_ACROW\KBWI RAVNN8 RNAV STAR THHMP ACROW 20241003_1343 EDT.pdf
Procedure Name:	RAVNN8
Software: DmeDmePlugin:	7.3.3
Date/Time:	10/03/2024 13:43 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures
No Failures

Warnings
No Warnings

Informational
No Informational

Notes For Flight Check
None

Flight Plan							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
THHMP	WP	N37° 29' 29.4700", W077° 19' 08.7500"	9000	VNAV	280	FLY_BY	TF
FZEEK	WP	N37° 42' 39.5200", W077° 15' 59.4300"	9000	VNAV	280	FLY_BY	TF
WHHTE	WP	N37° 54' 11.4200", W077° 13' 00.1300"	9000	VNAV	280	FLY_BY	TF
ACROW	WP	N38° 03' 51.9300", W077° 10' 28.9800"	9000	VNAV	280	FLY_BY	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KBWI
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

## DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	HPW	N37° 19' 43.9320", W077° 06' 57.3970"	6.0 W	40	L	IFPA	NO	Enabled		
2	HCM	N37° 26' 55.1756", W076° 42' 40.8741"	7.0 W	40	L	IFPA	NO	Enabled		
3	RIC	N37° 30' 08.4521", W077° 19' 12.9944"	9.0 W	130	H	IFPA	NO	Enabled		
4	FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	H	IFPA	NO	Enabled		
5	SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	L	IFPA	NO	Enabled		
6	BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	L	IFPA	NO	Enabled		
7	CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	H	IFPA	NO	Enabled		
8	ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	L	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	ADW	FAK	HCM	HPW		
3.6	HCM	RIC	HPW	FAK		
12.5	HPW	FAK	BRV	HCM	RIC	
25.9	CSN	FAK	BRV	SBY	HPW	RIC
29.2	FAK	CSN	SBY	BRV	RIC	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

## DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
THHMP	FZEEK	HPW [IFPA], HCM [IFPA], RIC [IFPA], FAK [IFPA], BRV [IFPA], ADW	
FZEEK	WHHTE	HPW [IFPA], HCM [IFPA], RIC [IFPA], FAK [IFPA], BRV	
WHHTE	ACROW	HPW [IFPA], HCM [IFPA], RIC [IFPA], FAK [IFPA], SBY [IFPA], BRV [IFPA], CSN	

### User Data Files

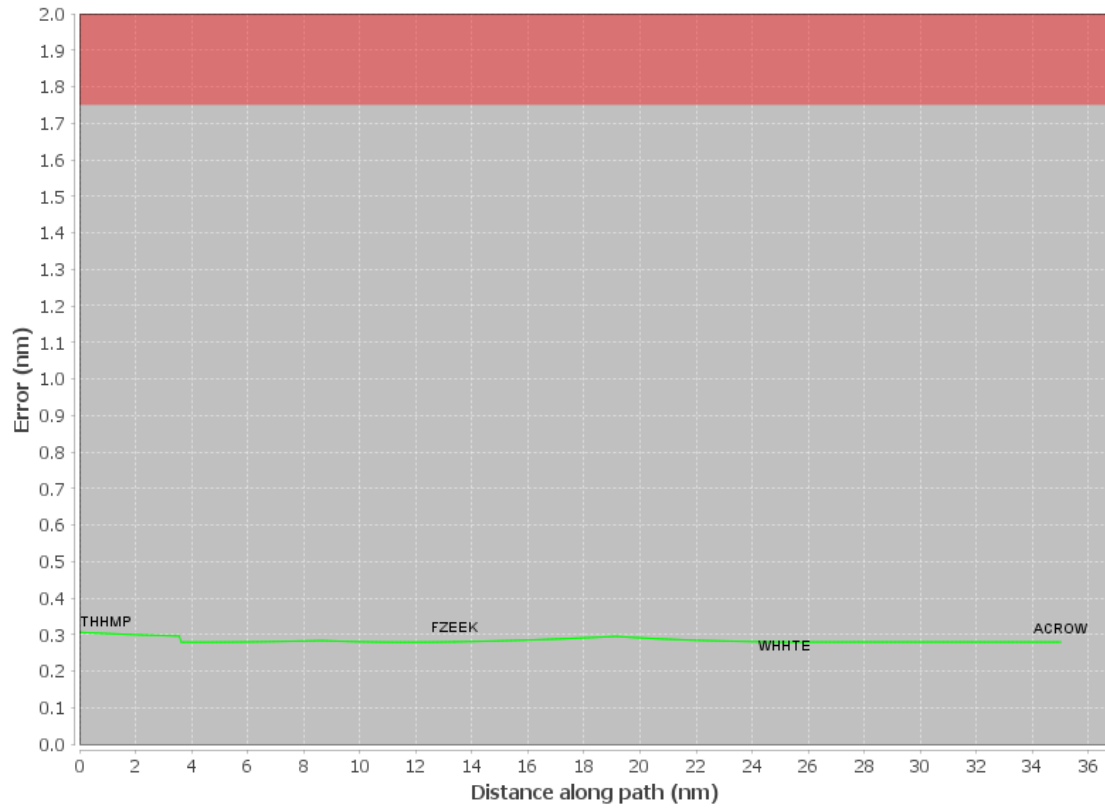
#	File Name
1	UserDMEsKBWI RAVNN8 RNAV STAR_20241003_1232 EDT.udt

### User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	UDT ESV GVE GVE	N38° 00' 48.9578", W078° 09' 10.8957"	6.0 W	130	382.6	115.6	UDT ESV GVE	
	ESV:	Bearing [True]: 122.0° to 150.0° Bearing [Mag]: 128.0° to 156.0°				Arc Distance: Out to 51.0 NM Altitude: 4000.0 to 16000.0 ft		
2	UDT ESV SBY SBY	N38° 20' 42.0201", W075° 30' 38.0674"	12.0 W	40	48.2	111.2	UDT ESV SBY	
	ESV:	Bearing [True]: 248.0° to 288.0° Bearing [Mag]: 260.0° to 300.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 18000.0 ft		
3	UDT ESV ADW ADW	N38° 48' 25.9900", W076° 51' 58.5200"	10.0 W	40	262.9	113.1	UDT ESV ADW	
	ESV:	Bearing [True]: 160.0° to 200.0° Bearing [Mag]: 170.0° to 210.0°				Arc Distance: Out to 85.0 NM Altitude: 6000.0 to 10000.0 ft		
4	UDT ESV BRV BRV	N38° 20' 10.5264", W077° 21' 10.3159"	9.0 W	40	144.5	114.5	UDT ESV BRV	
	ESV:	Bearing [True]: 184.0° to 194.0° Bearing [Mag]: 193.0° to 203.0°				Arc Distance: Out to 53.0 NM Altitude: 11900.0 to 18200.0 ft		
5	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 4.0° to 104.0° Bearing [Mag]: 10.0° to 110.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
6	UDT ESV FAK FAK	N37° 31' 42.6340", W077° 49' 41.5890"	6.0 W	130	460	113.3	UDT ESV FAK	
	ESV:	Bearing [True]: 309.0° to 3.0° Bearing [Mag]: 315.0° to 9.0°				Arc Distance: Out to 86.0 NM Altitude: 5000.0 to 16000.0 ft		
7	UDT ESV CSN CSN	N38° 38' 28.3277", W077° 51' 55.7979"	6.0 W	130	441.8	116.3	UDT ESV CSN	
	ESV:	Bearing [True]: 44.0° to 154.0° Bearing [Mag]: 50.0° to 160.0°				Arc Distance: Out to 82.0 NM Altitude: 7000.0 to 16000.0 ft		
8	UDT ESV ESL ESL	N39° 13' 31.7740", W078° 59' 22.2000"	6.0 W	40	2590	110.8	UDT ESV ESL	
	ESV:	Bearing [True]: 128.0° to 201.0° Bearing [Mag]: 134.0° to 207.0°				Arc Distance: Out to 70.0 NM Altitude: 7000.0 to 14000.0 ft		

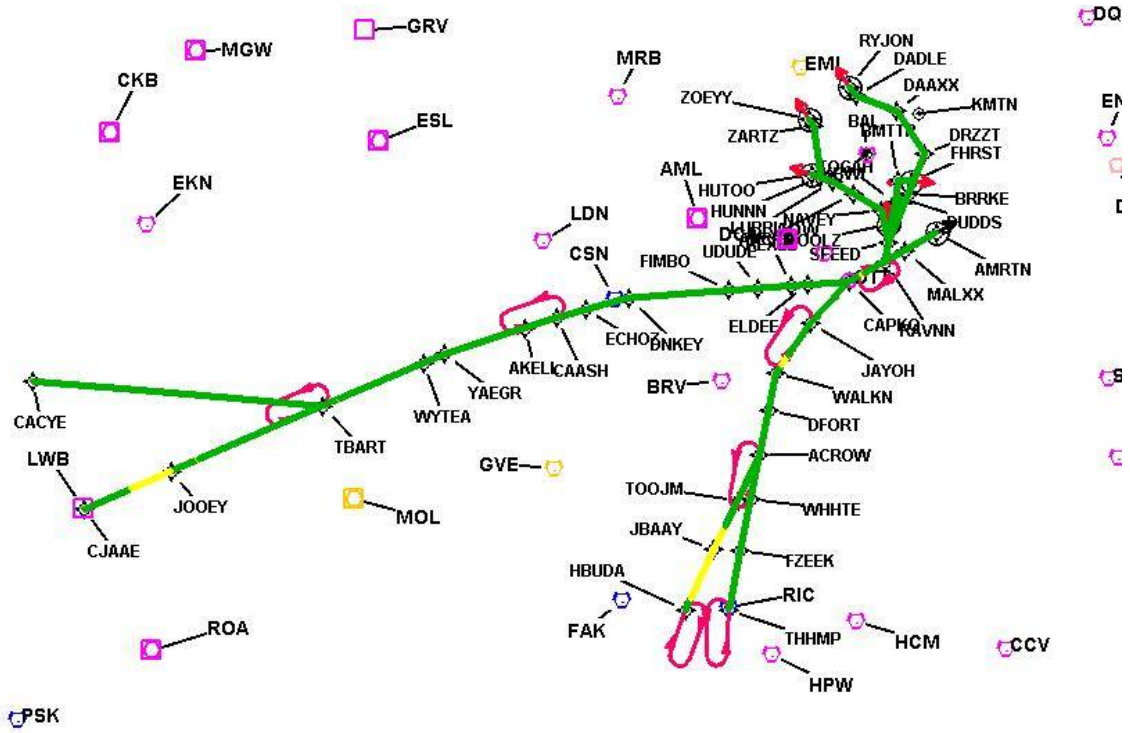
# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

## DME Error



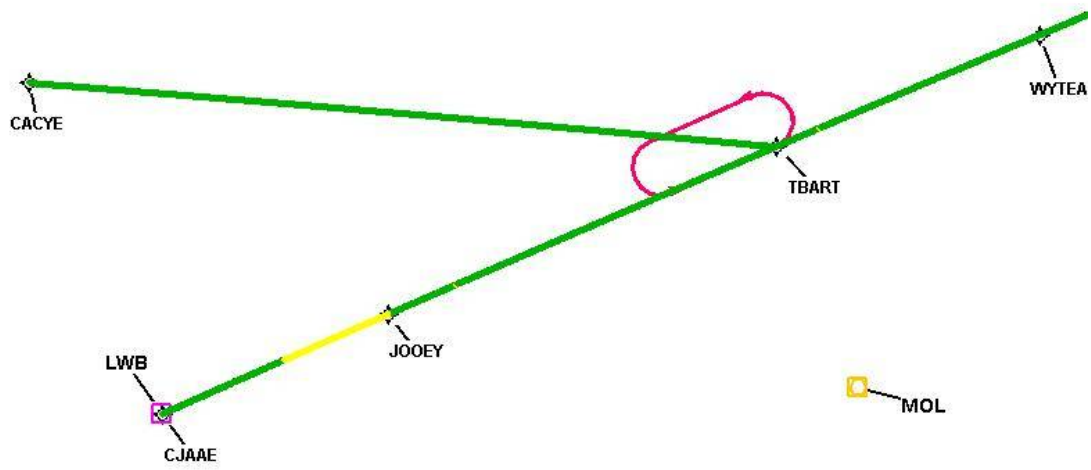
# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 1



# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

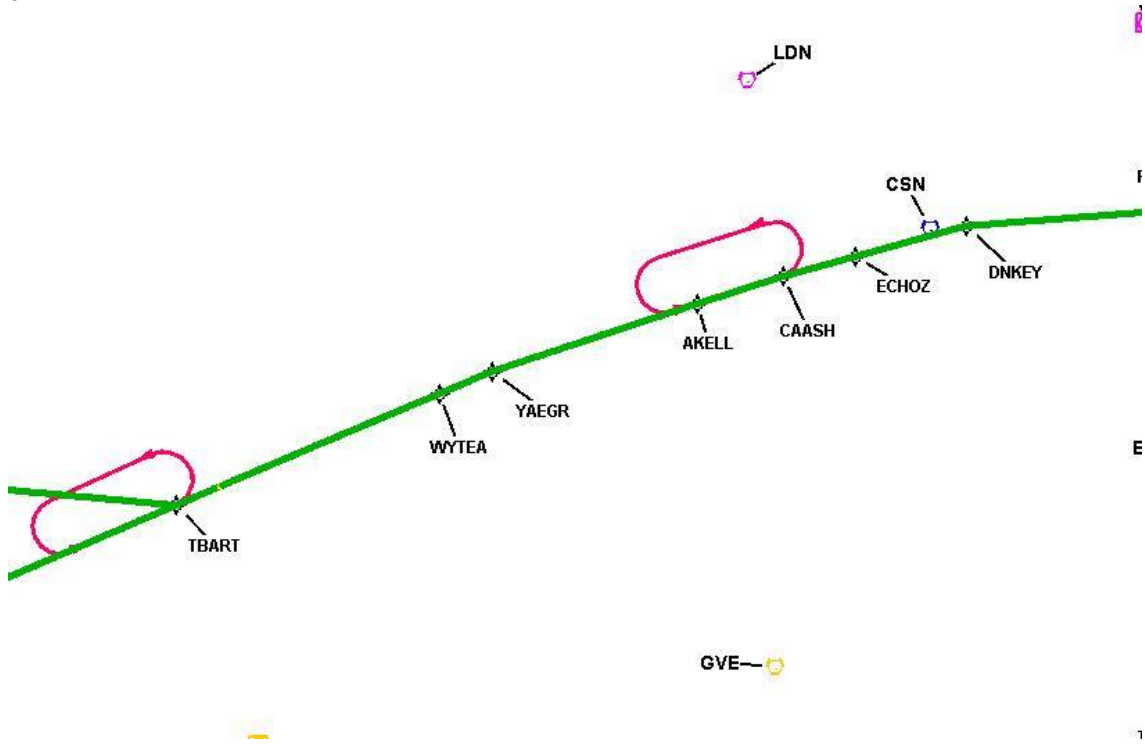
Graphic Depiction 2





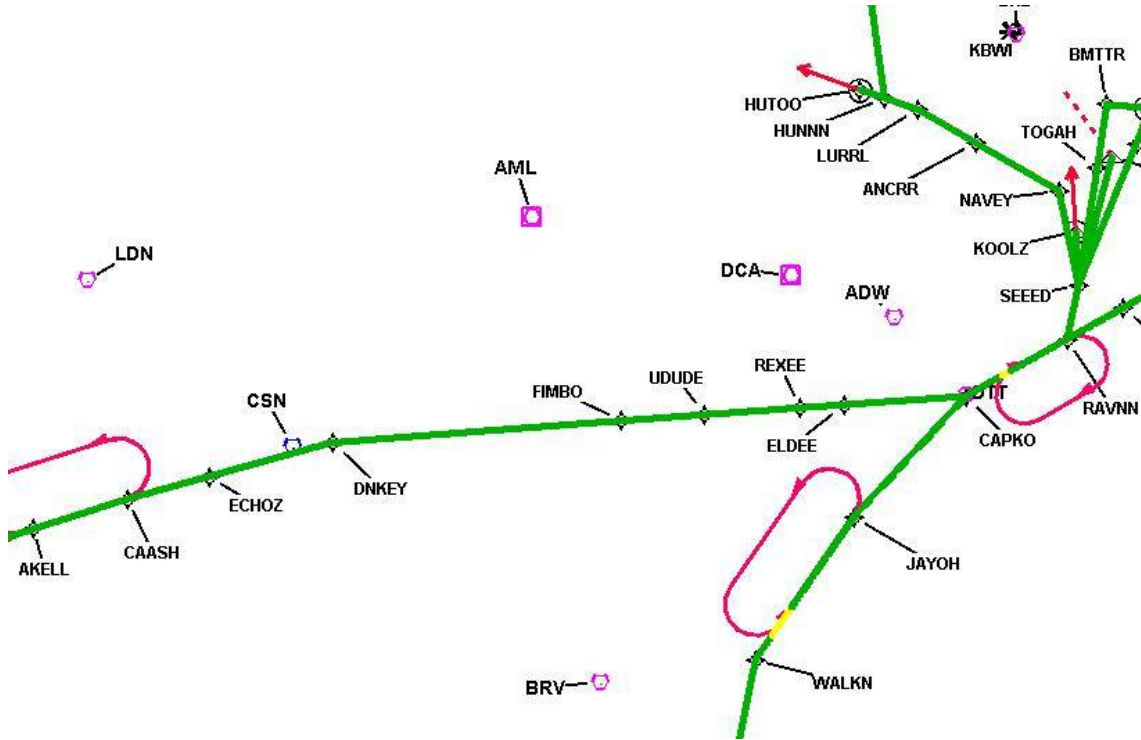
# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 3



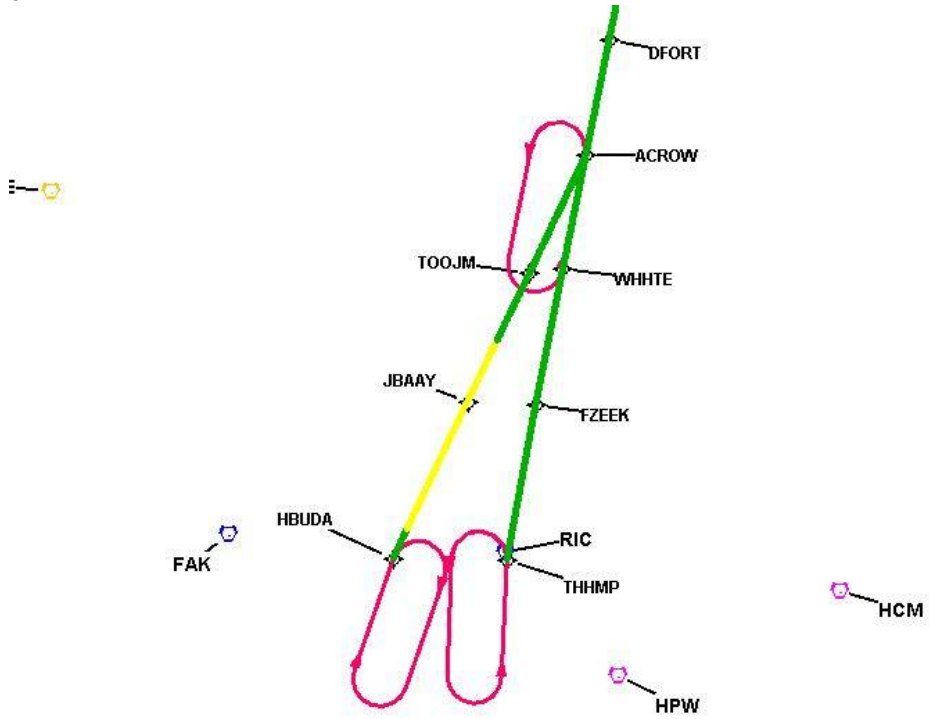
DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 4



DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

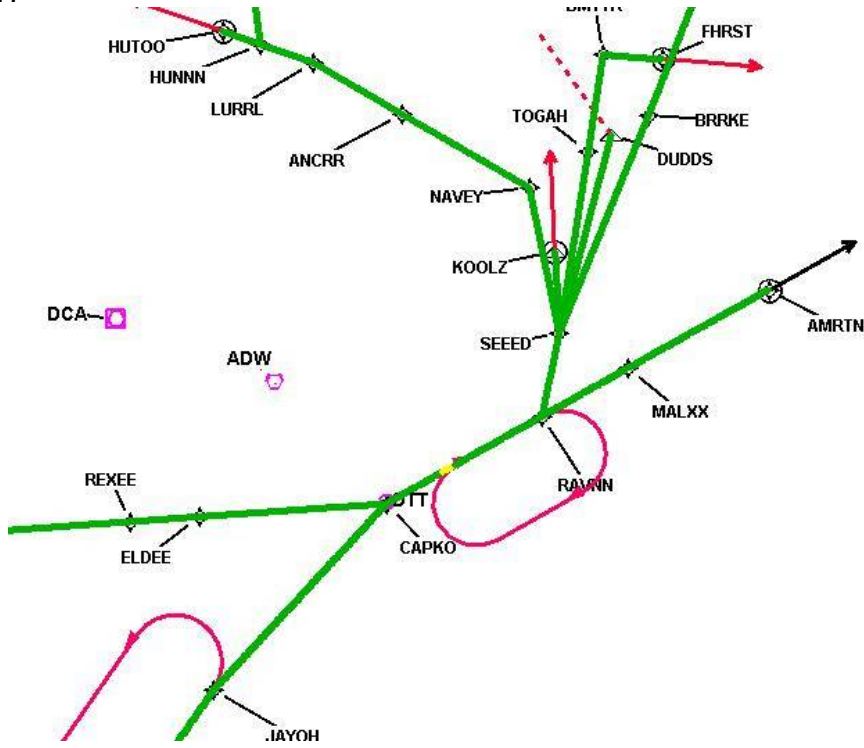
Graphic Depiction 5





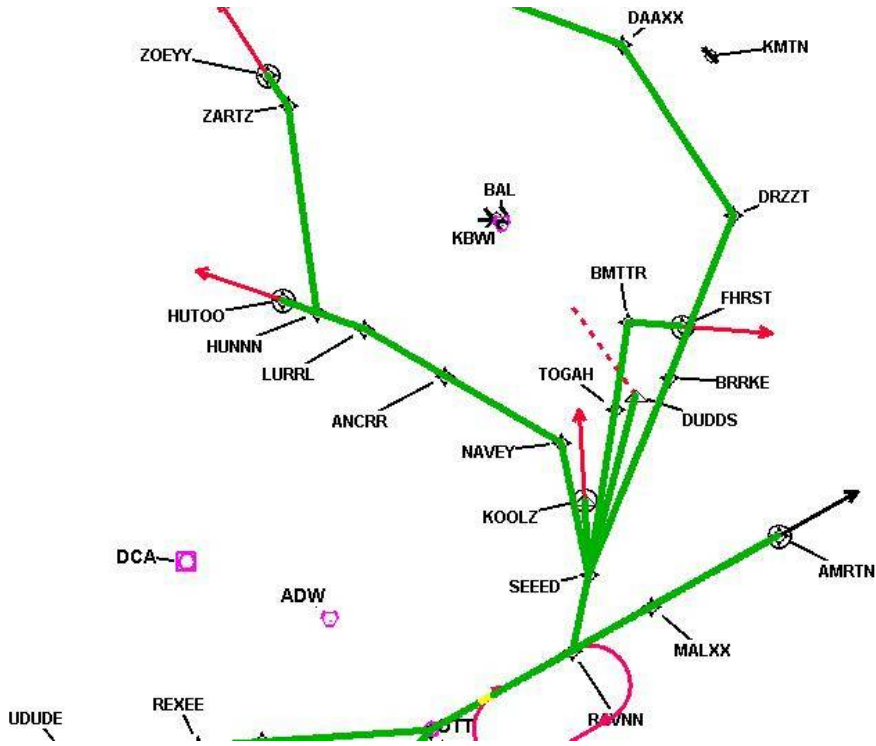
# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 7



# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 8



# DME DME Assessment Results for RAVNN8 path THHMP\_ACROW

Graphic Depiction 9

