

DME DME Assessment Results for TIPP4 path KBNA:RW02C:DER_DENST

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA TIPP4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA [IFPA] TIPP4 20250422_1036 EDT\KBNA-RW02C-DER_DENST\KBNA TIPP4 SID RW02C DENST 20250422_1036 EDT.pdf
Procedure Name:	TIPP4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW02C:DER	WP	N36° 07' 27.2406", W086° 40' 46.5500"	571.8	VNAV	130	FLY_BY	TF
SHWIT	WP	N36° 13' 37.6700", W086° 33' 07.0800"	4000	VNAV	200	FLY_BY	TF
KKAYS	WP	N36° 11' 49.3200", W086° 25' 48.8100"	5236	VNAV	200	FLY_BY	TF
TBUGG	WP	N35° 54' 31.1600", W086° 26' 36.9900"	10000	VNAV	200	FLY_BY	TF
RORRY_	WP	N35° 35' 35.1100", W086° 27' 29.3100"	12000	VNAV	240	FLY_BY	TF
TIPP4	WP	N35° 23' 08.2800", W086° 23' 32.1500"	14570	VNAV	240	FLY_BY	TF
DENST	WP	N34° 46' 18.3400", W085° 43' 58.1300"	14900	VNAV	240	FLY_BY	TF

Climb Gradient:
500.0 ft/NM up to 1099.0 ft MSL
200.0 ft/NM

DME DME Assessment Results for TIPP4 path KBNA:RW02C:DER_DENST

Flyability	
Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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	
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:	Not 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	SYI	N35° 33' 43.1090", W086° 26' 20.9383"	1.0 W	40	L		NO	Enabled	64.8 %	65.1 %
2	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	84 %	84.7 %
3	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	42 %	40 %
4	GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	H		NO	Enabled	24.1 %	25.3 %
5	GSU	N33° 38' 00.8300", W084° 24' 43.8800"	0.0 E	130	DH		NO	Enabled	28.8 %	31 %
6	RQZ	N34° 47' 50.0607", W086° 38' 01.8476"	2.0 E	40	L		NO	Enabled	27.9 %	30.1 %
7	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	77.8 %	80.6 %
8	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled	30.6 %	29 %
9	MKL	N35° 36' 12.8354", W088° 54' 37.5457"	1.0 W	130	DH		NO	Enabled	13.6 %	14.6 %

DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
5.9	BWG	HCH				
6.4						
8.9	GHM	BWG				
8.9	GHM	BWG	BNA			
10.9	GHM	BWG				
12.8	BWG	BNA	GHM			
13.9	SYI	BNA	BWG	GHM	HCH	
15.1	GHM	BWG	HCH	SYI		
15.3	BWG	BNA	SYI	GHM	HCH	
16.5	BWG	BNA	SYI	GHM		
25.0	BWG	HCH	SYI	BNA		
34.7	GHM	SYI	BWG	HCH	BNA	
50.3	HCH	BNA	GHM	BWG	GQO	
51.5	HCH	BNA	BWG	GQO		
52.4	HCH	BNA	BWG	MKL		
56.3	HCH	BNA	SYI	BWG	MKL	
56.4	SYI	HCH	BWG	MKL		
63.6	SYI	HCH	BWG	RQZ	MKL	
64.2	SYI	HCH	BWG	MKL		
65.9	SYI	HCH	BWG	RQZ	MKL	
69.0	SYI	HCH	BWG	RQZ		
78.0	SYI	HCH	RQZ	BWG	GSU	
93.6	HCH	GSU	BWG	RQZ		
99.5	HCH	GSU	GQO	BWG		
104.4	HCH	GSU	GQO			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 07' 29.2491", W086° 40' 45.7461"	N36° 11' 38.9327", W086° 35' 53.9211"	5.8454
2	N36° 11' 58.7268", W086° 35' 26.1240"	N36° 13' 37.6700", W086° 33' 07.0800"	2.4957

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW02C:DER	SHWIT	BWG, HCH, GHM	
SHWIT	KKAYS	SYI, BWG, BNA, HCH, GHM	
KKAYS	TBUGG	SYI, BWG, BNA, HCH, GHM	
TBUGG	RORRY_	SYI, BWG, BNA, GQO, HCH, GHM	
RORRY_	TIPPN	SYI, BWG, BNA, GQO, RQZ, HCH, GHM, MKL	
TIPPN	DENST	SYI, BWG, GQO, GSU, RQZ, HCH, MKL	

DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

User Data Files

File Name

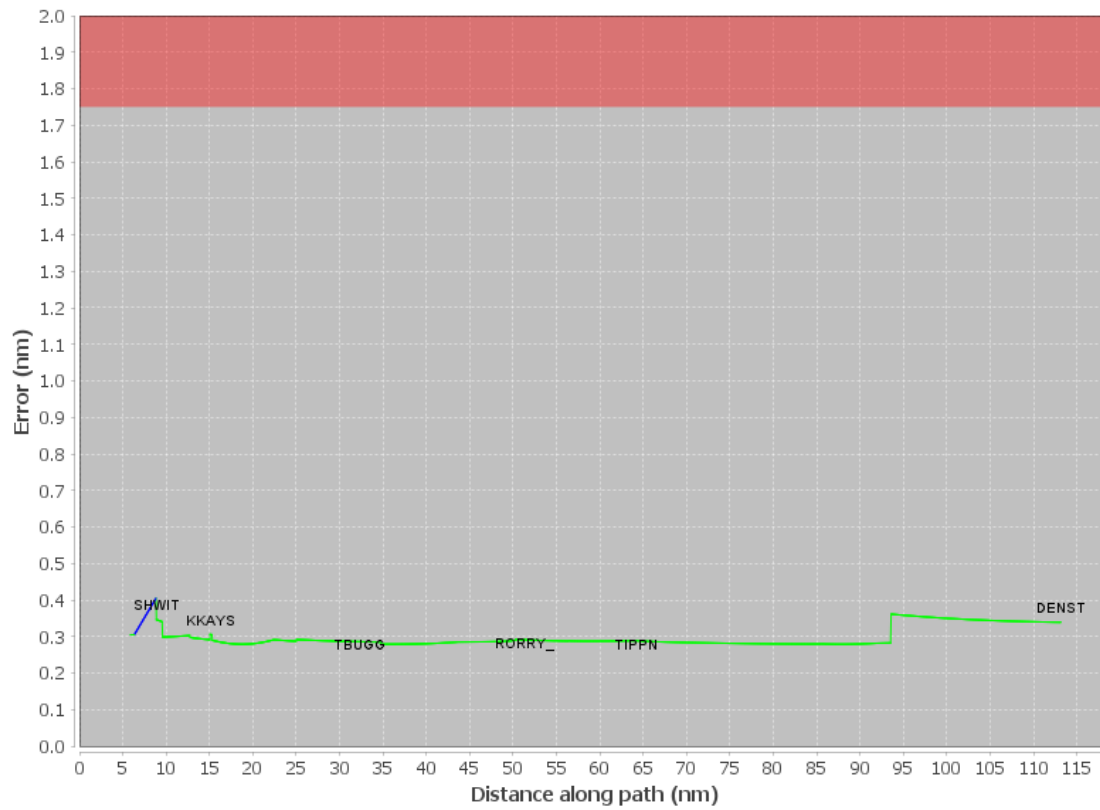
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		

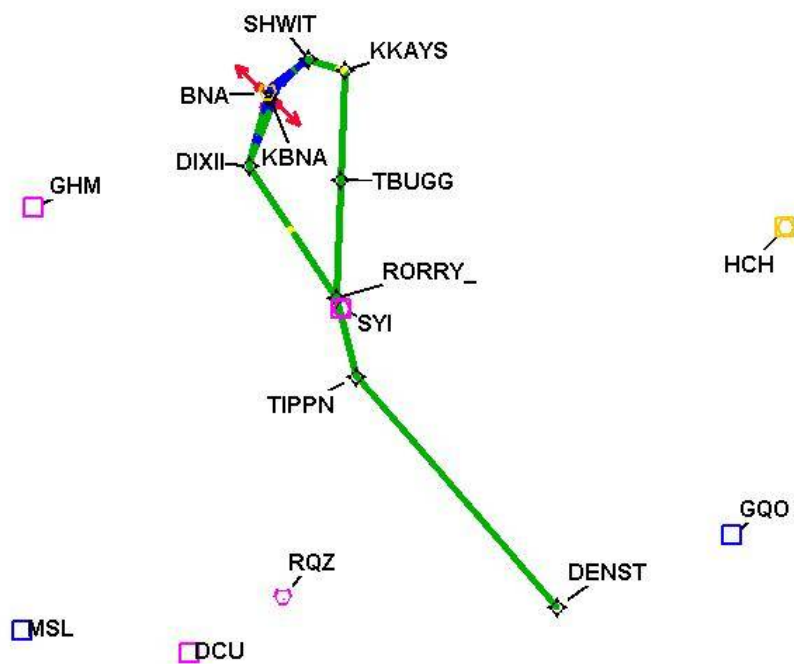
DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

DME Error



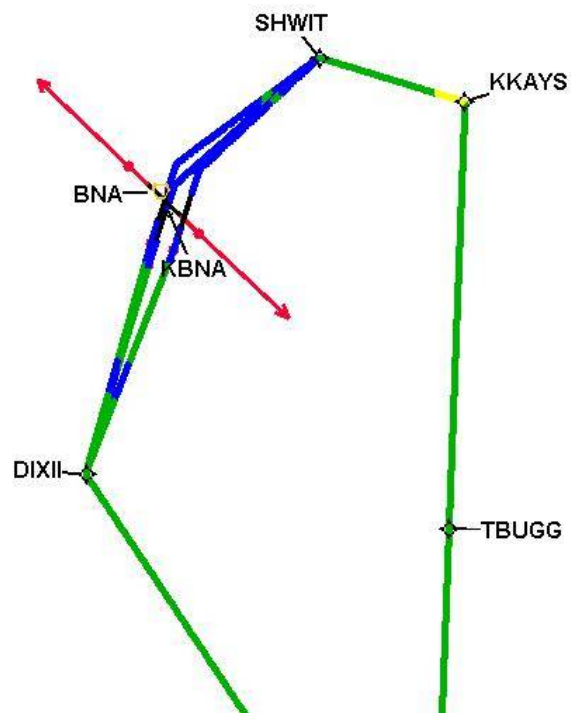
DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Graphic Depiction 1



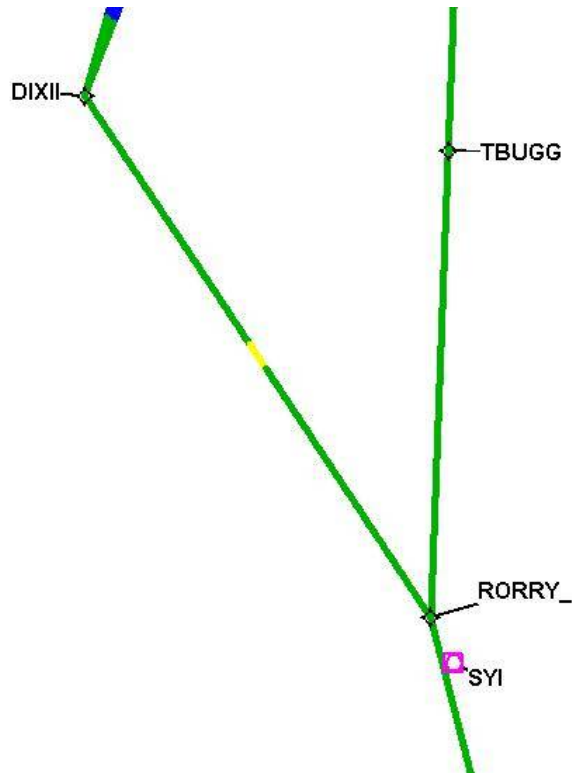
DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Graphic Depiction 2



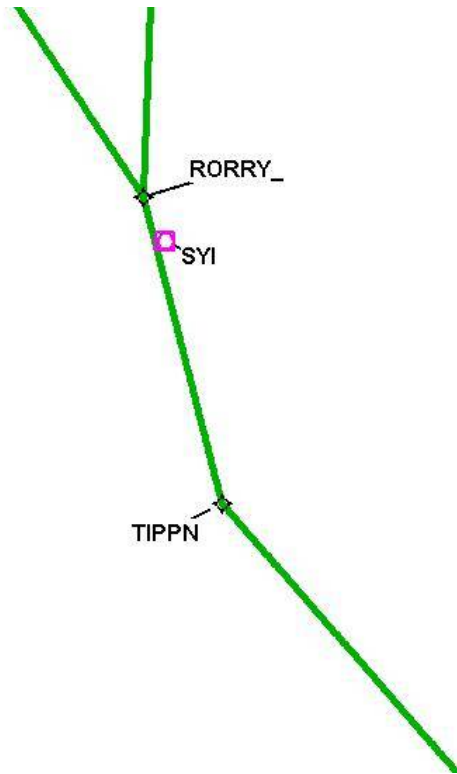
DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Graphic Depiction 3



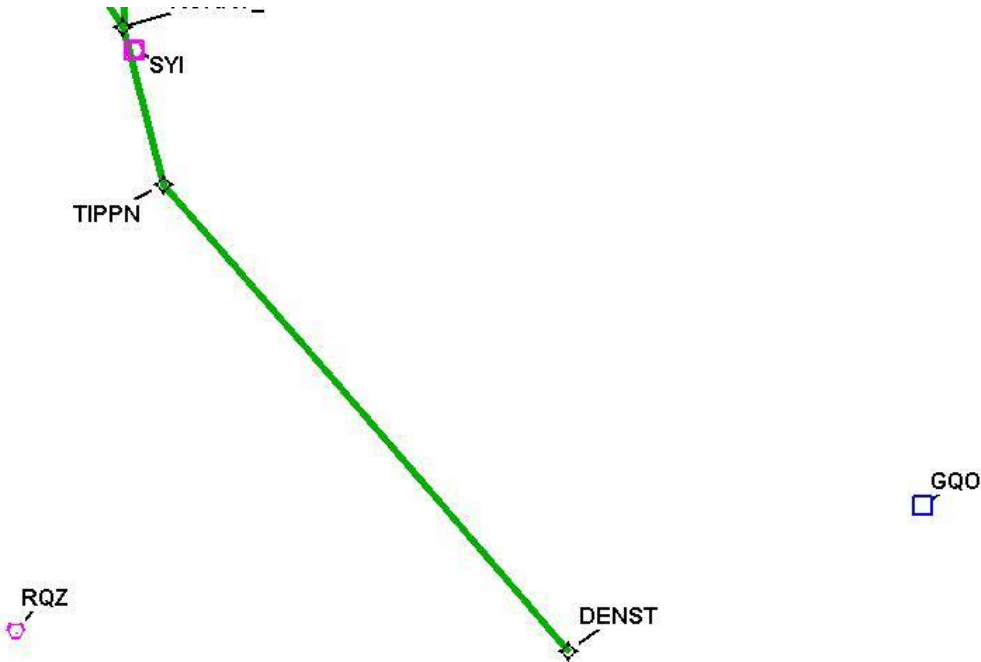
DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Graphic Depiction 4



DME DME Assessment Results for TIPPN4 path KBNA:RW02C:DER_DENST

Graphic Depiction 5



DME DME Assessment Results for TIPP4 path KBNA:RW02L:DER_SHWIT

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA TIPP4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA [IFPA] TIPP4 20250422_1036 EDT\KBNA-RW02L-DER_SHWIT\KBNA TIPP4 SID RW02L SHWIT 20250422_1036 EDT.pdf
Procedure Name:	TIPP4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW02L:DER	WP	N36° 08' 16.2324", W086° 40' 42.8335"	555.6	VNAV	130	FLY_BY	TF
SHWIT	WP	N36° 13' 37.6700", W086° 33' 07.0800"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 TIPPN4 path KBNA:RW02L:DER_SHWIT

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:	Not 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	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	5 %	5.3 %
2	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	5 %	5.3 %
3	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
5.5	BWG	HCH				
6.0						
8.3	GHM	BWG				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 08' 18.2396", W086° 40' 42.0460"	N36° 11' 56.8065", W086° 35' 55.0971"	5.4766
2	N36° 12' 14.6107", W086° 35' 25.4557"	N36° 13' 37.6700", W086° 33' 07.0800"	2.3224

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW02L:DER	SHWIT	BWG, HCH, GHM	

DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

User Data Files

File Name

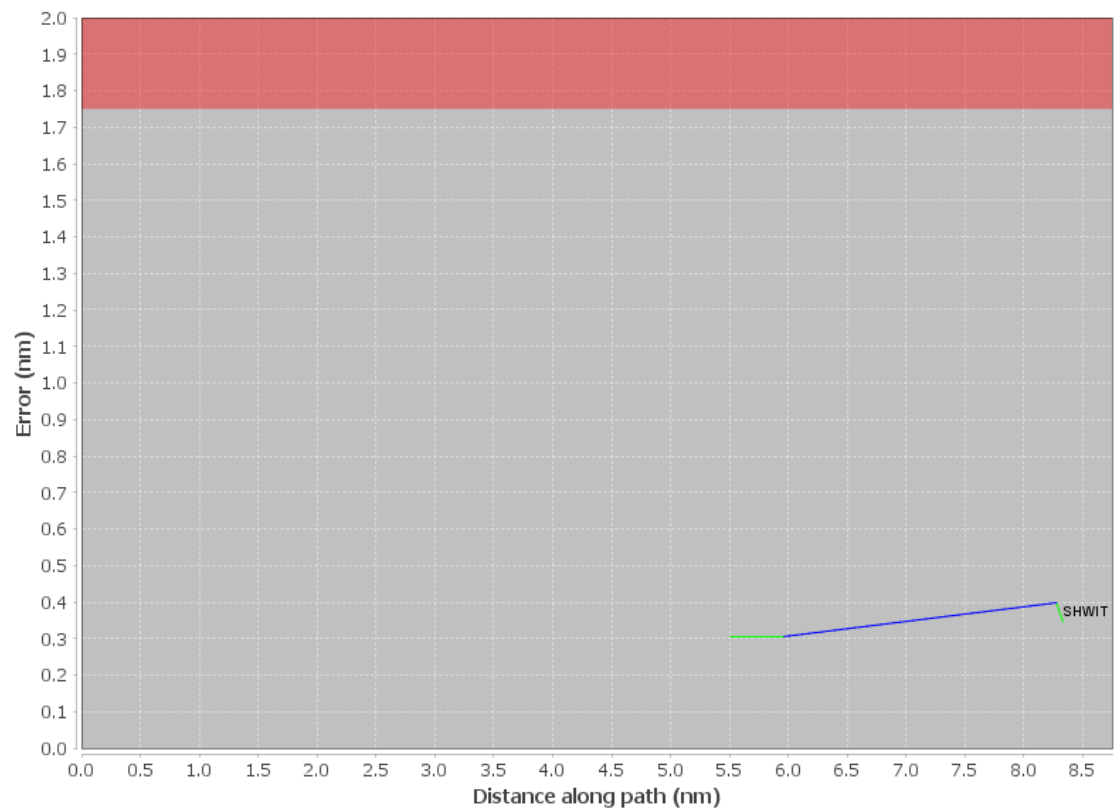
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		

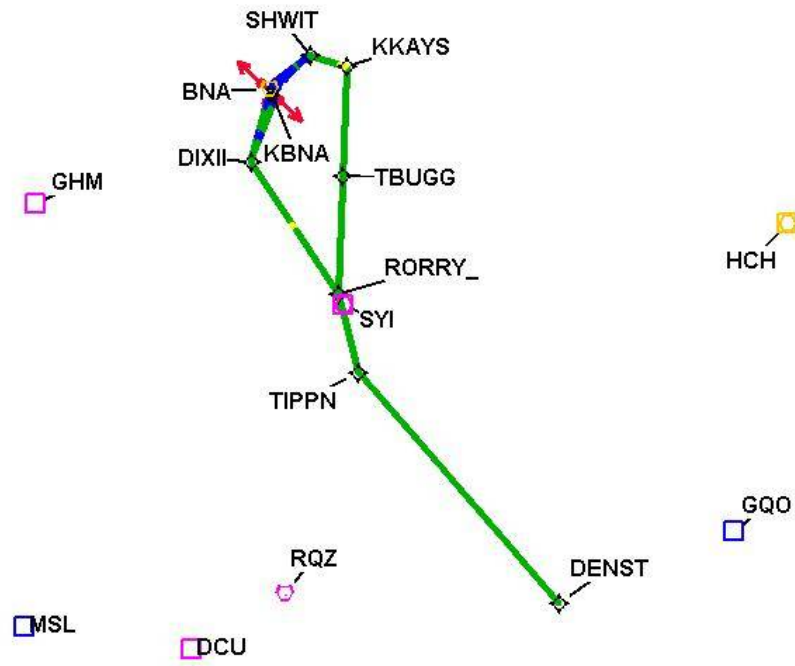
DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

DME Error



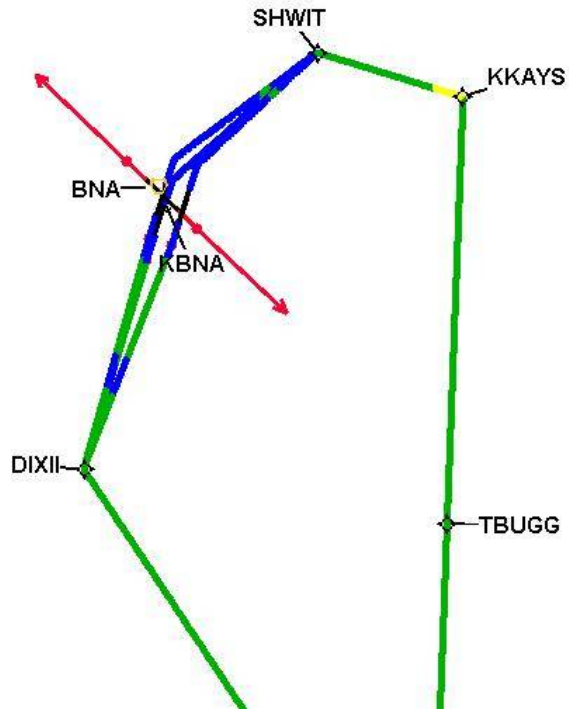
DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

Graphic Depiction 1



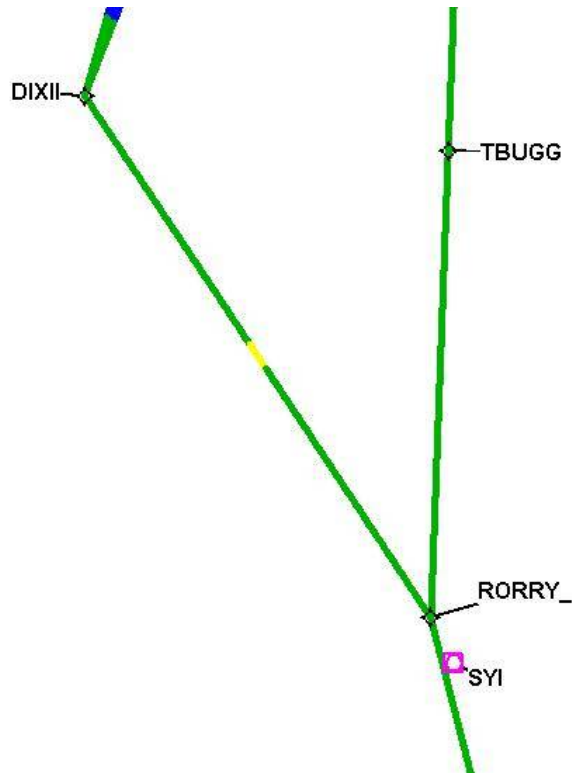
DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

Graphic Depiction 2



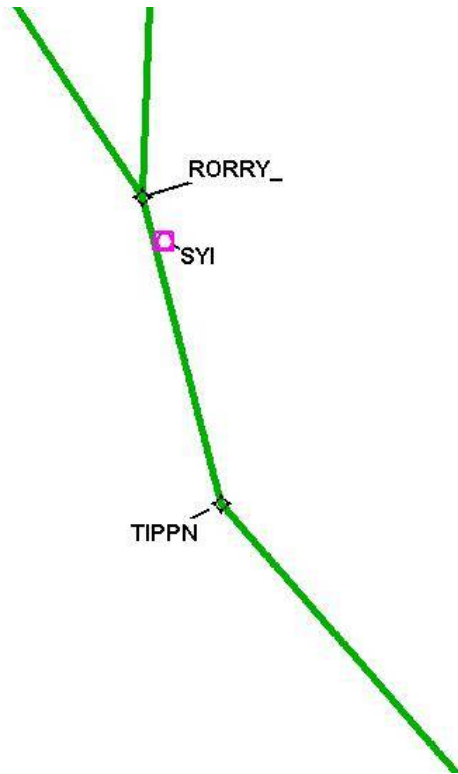
DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

Graphic Depiction 3



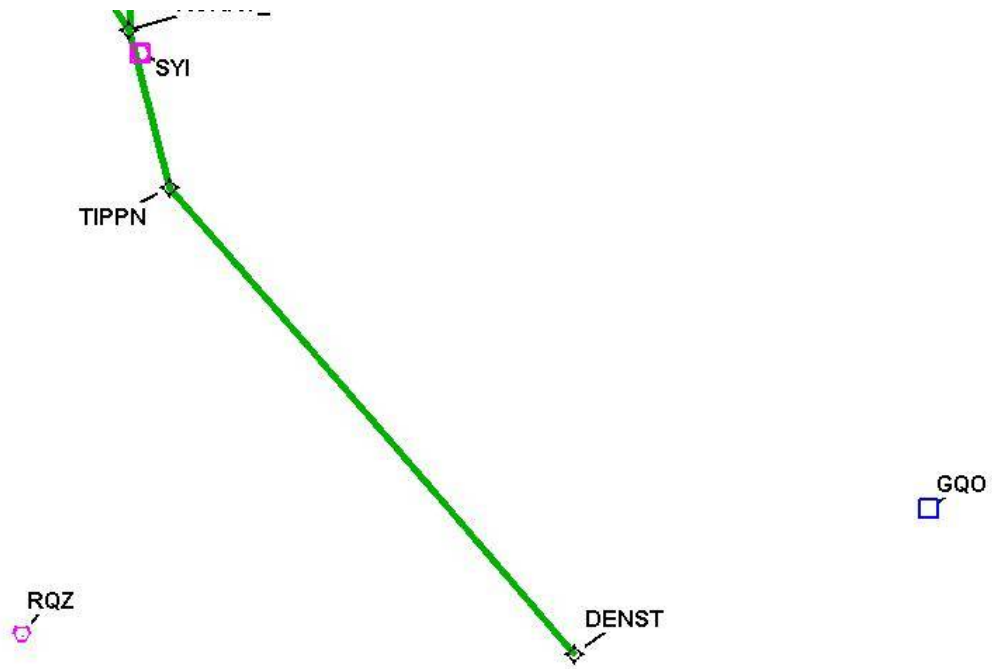
DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

Graphic Depiction 4



DME DME Assessment Results for TIPPN4 path KBNA:RW02L:DER_SHWIT

Graphic Depiction 5



DME DME Assessment Results for TIPP4 path KBNA:RW02R:DER_SHWIT

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA TIPP4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA [IFPA] TIPP4 20250422_1036 EDT\KBNA-RW02R-DER_SHWIT\KBNA TIPP4 SID RW02R SHWIT 20250422_1036 EDT.pdf
Procedure Name:	TIPP4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW02R:DER	WP	N36° 08' 01.0116", W086° 39' 33.3955"	540	VNAV	130	FLY_BY	TF
SHWIT	WP	N36° 13' 37.6700", W086° 33' 07.0800"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 TIPPN4 path KBNA:RW02R:DER_SHWIT

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:	Not 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	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	4.7 %	5 %
2	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	4.7 %	5 %
3	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
5.2	BWG	HCH				
5.6						
7.8	GHM	BWG				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 08' 03.0725", W086° 39' 32.5704"	N36° 11' 50.8717", W086° 35' 28.4479"	5.1318
2	N36° 12' 09.0534", W086° 35' 04.3928"	N36° 13' 37.6700", W086° 33' 07.0800"	2.163

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW02R:DER	SHWIT	BWG, HCH, GHM	

DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

User Data Files

File Name

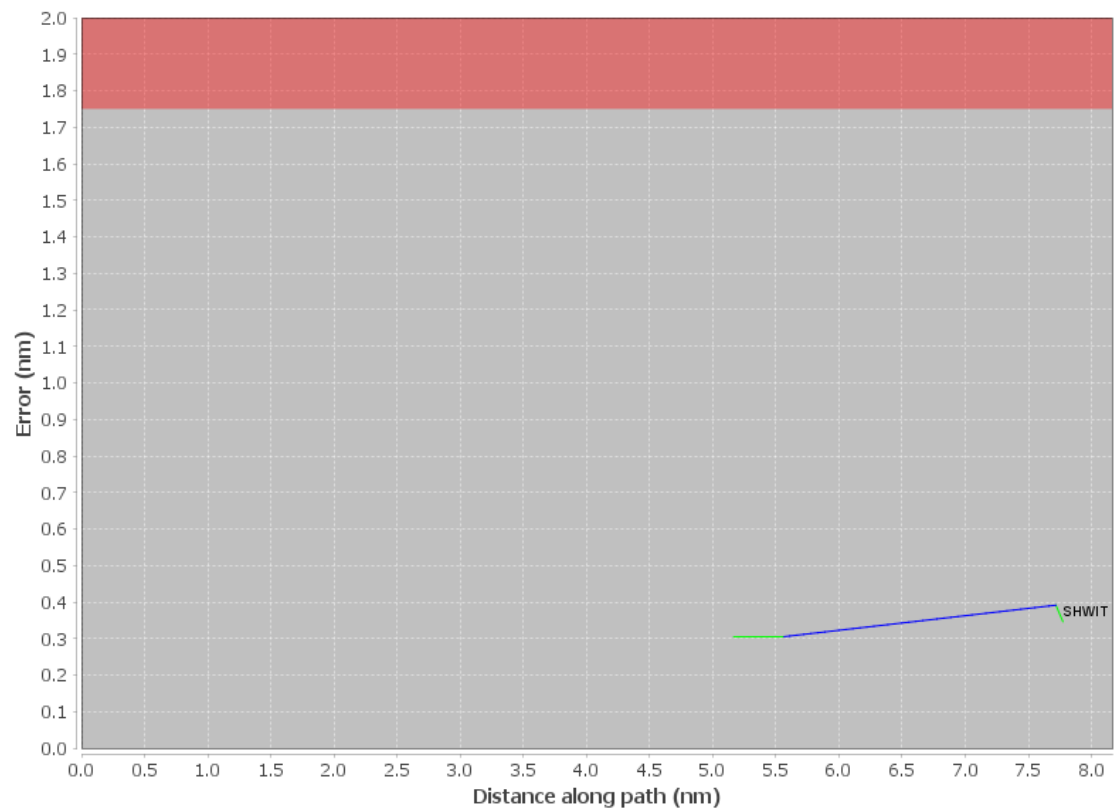
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		

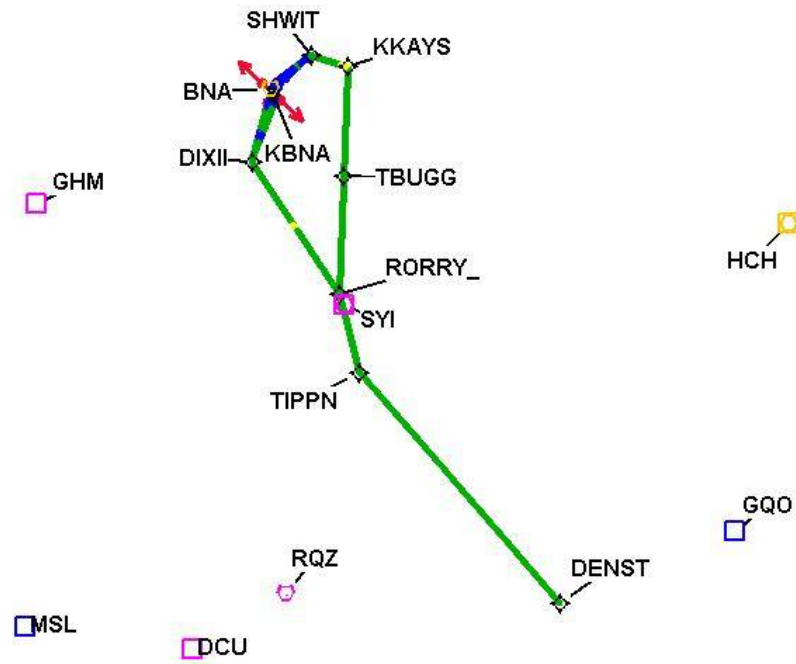
DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

DME Error



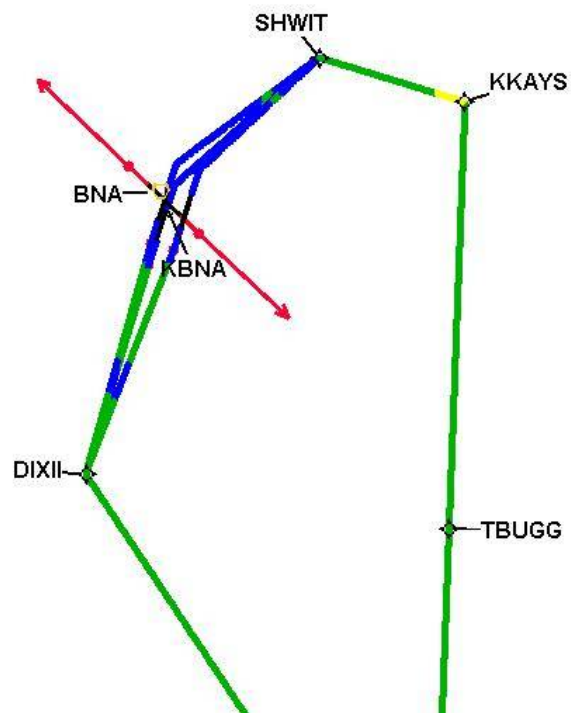
DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

Graphic Depiction 1



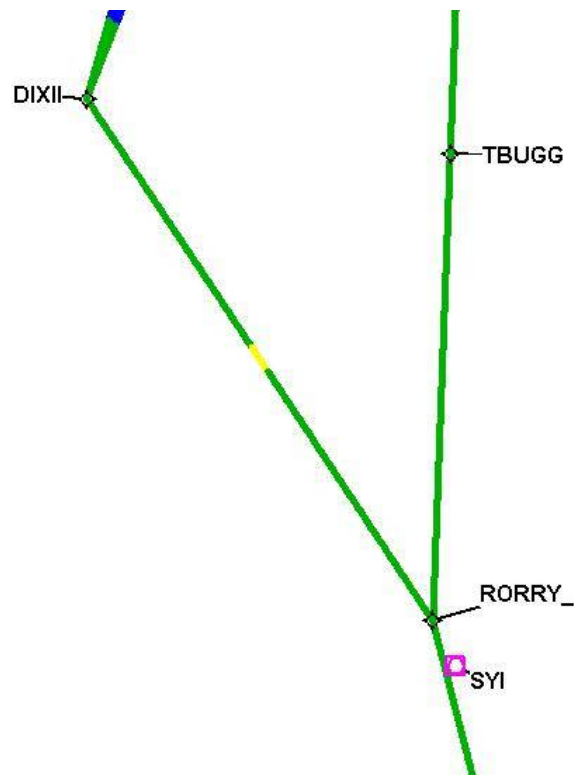
DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

Graphic Depiction 2



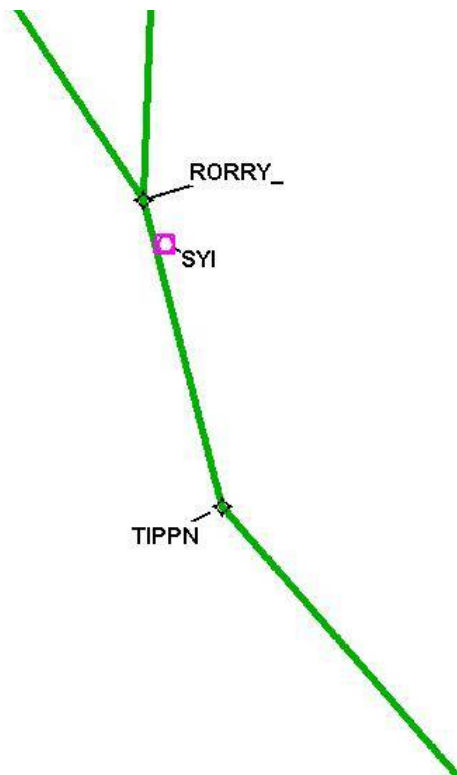
DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

Graphic Depiction 3



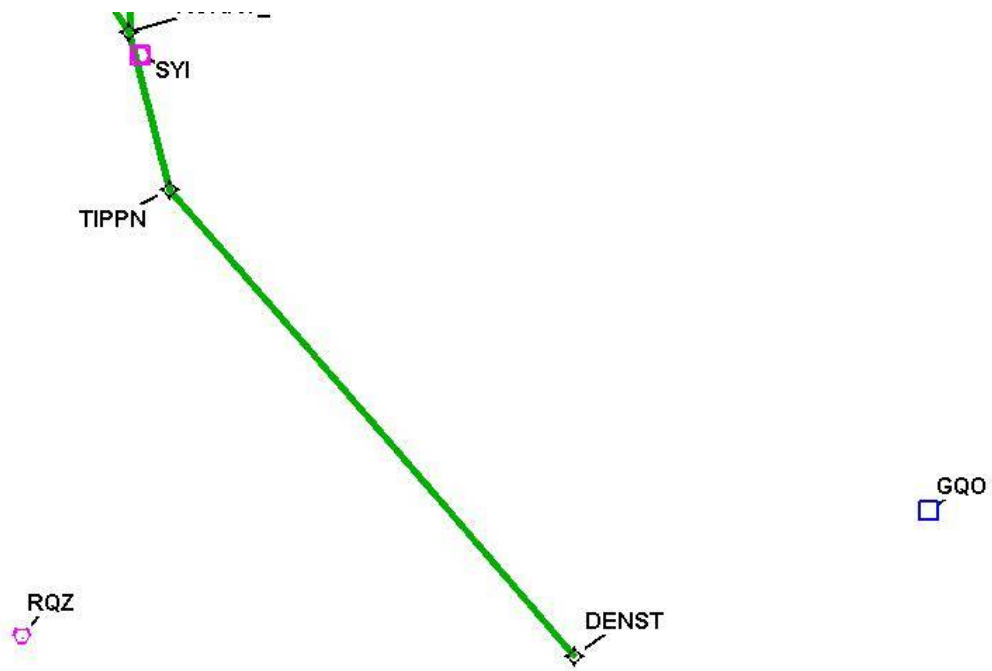
DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

Graphic Depiction 4



DME DME Assessment Results for TIPPN4 path KBNA:RW02R:DER_SHWIT

Graphic Depiction 5



DME DME Assessment Results for TIPP4 path KBNA:RW20C:DER_RORRY_

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA TIPP4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPP4\DME\KBNA [IFPA] TIPP4 20250422_1036 EDT\KBNA-RW20C-DER_RORRY_\KBNA TIPP4 SID RW20C RORRY_ 20250422_1036 EDT.pdf
Procedure Name:	TIPP4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW20C:DER	WP	N36° 06' 11.9899", W086° 41' 16.6591"	569.1	VNAV	130	FLY_OVER	TF
DIXII	WP	N35° 56' 44.4000", W086° 44' 50.8300"	5000	VNAV	200	FLY_BY	TF
RORRY_	WP	N35° 35' 35.1100", W086° 27' 29.3100"	12000	VNAV	240	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 TIPP4 path KBNA:RW20C:DER_RORRY_

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:	Not 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	SYI	N35° 33' 43.1090", W086° 26' 20.9383"	1.0 W	40	L		NO	Enabled	77.1 %	79.1 %
2	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	73.6 %	79.4 %
3	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	92 %	93.9 %
4	GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	H		NO	Enabled	8.9 %	10.2 %
5	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	50.1 %	50.3 %
6	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled	69.8 %	74.1 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.0	HCH	BNA				
2.8	HCH	BNA	SYI			
5.5						
6.6	GHM	SYI	BNA			
7.3	GHM	SYI	BWG	BNA		
22.0	HCH	BNA	BWG	SYI		
23.1	GHM	BWG	BNA	HCH	SYI	
31.9	HCH	BNA	GHM	BWG	GQO	
34.0	HCH	BNA	BWG	GQO		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 06' 09.9710", W086° 41' 17.4667"	N36° 05' 13.4425", W086° 41' 40.0735"	0.9891
2	N36° 00' 56.7661", W086° 43' 16.3735"	N35° 59' 54.2556", W086° 43' 39.7866"	1.0874

DME DME Assessment Results for TIPP4 path KBNA:RW20C:DER_RORRY_

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW20C:DER	DIXII	SYI, BWG, BNA, HCH, GHM	
DIXII	RORRY_	SYI, BWG, BNA, GQO, HCH, GHM	

User Data Files

File Name

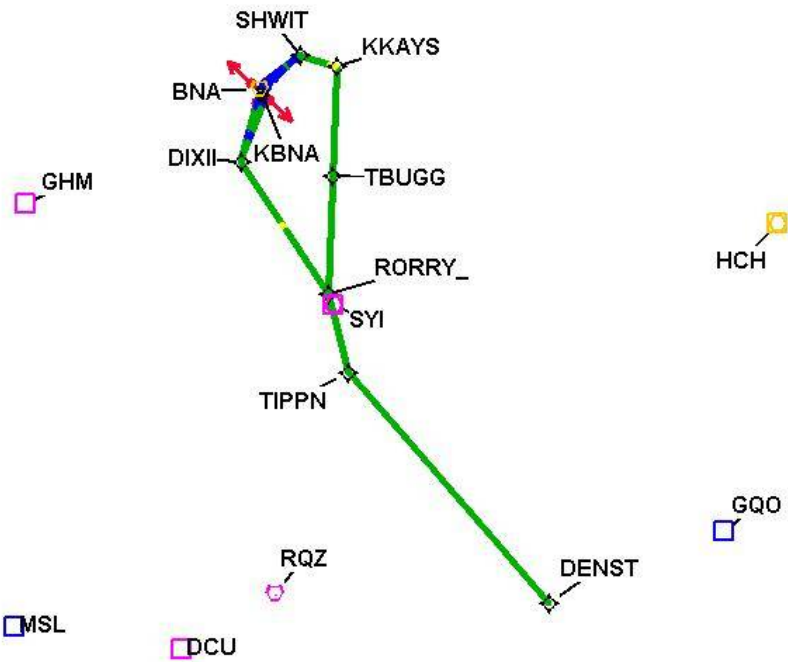
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User DMEs

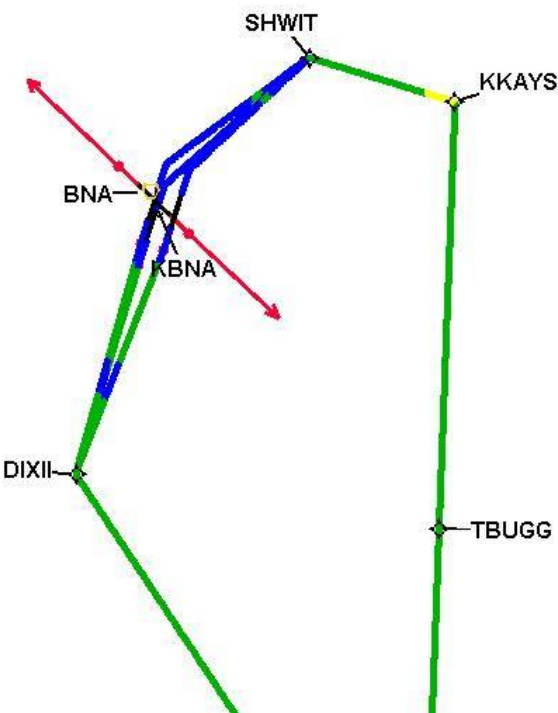
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		



Graphic Depiction 1

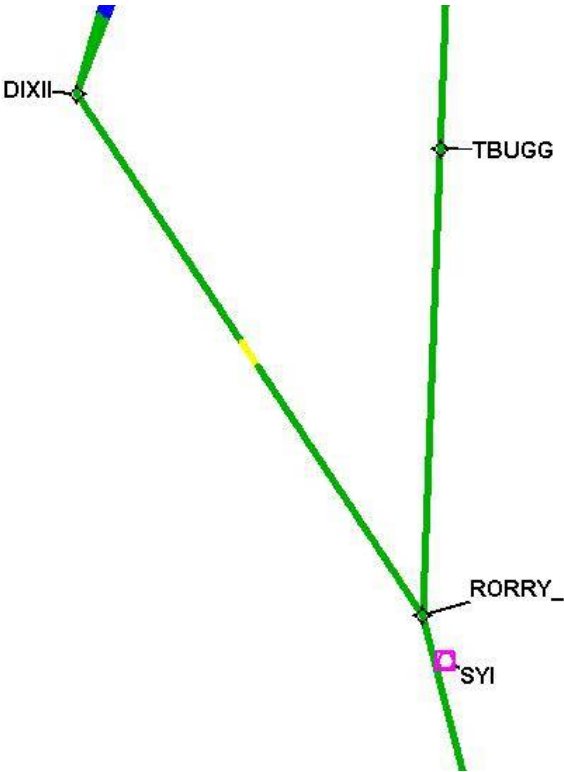


Graphic Depiction 2

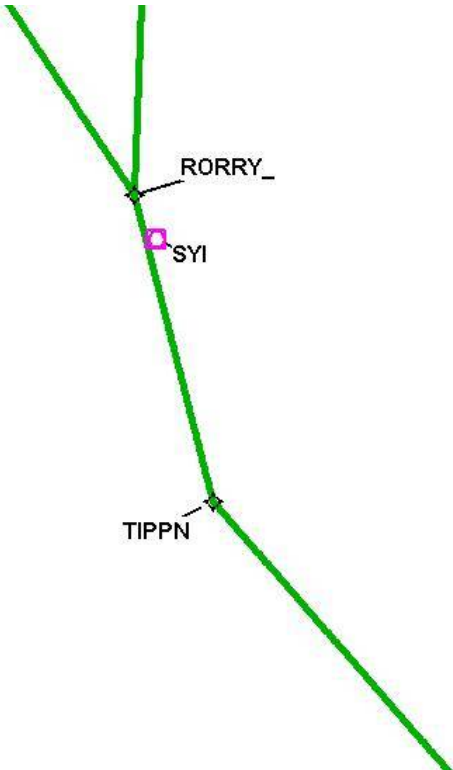


DME DME Assessment Results for TIPPN4 path KBNA:RW20C:DER_RORRY_

Graphic Depiction 3

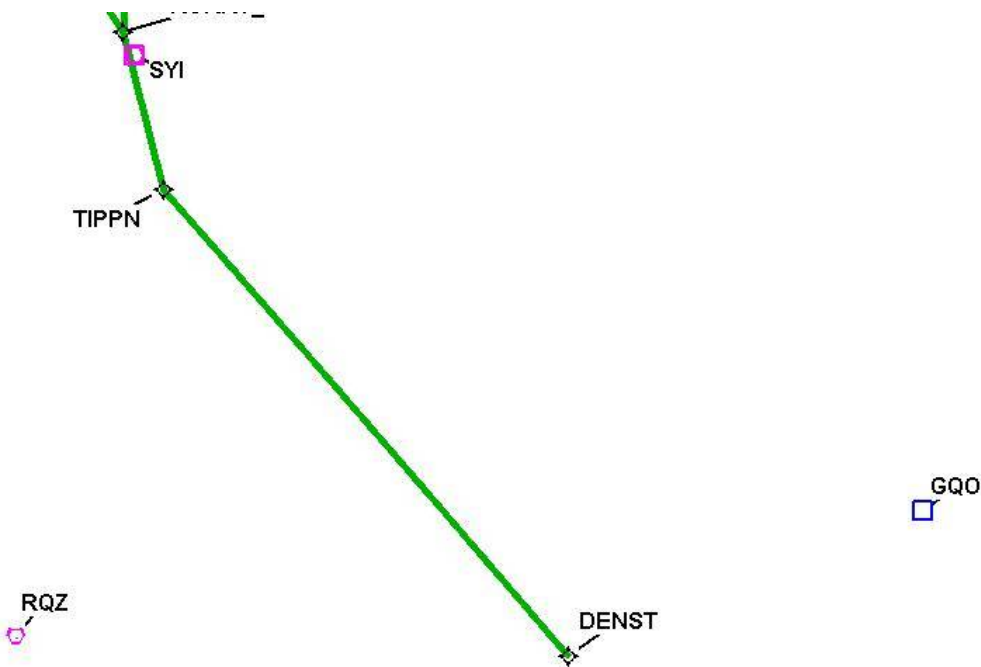


Graphic Depiction 4



Graphic Depiction 5

DME DME Assessment Results for TIPPN4 path KBNA:RW20C:DER_RORRY_



DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPPN4\DME\KBNA TIPPN4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPPN4\DME\KBNA [IFPA] TIPPN4 20250422_1036 EDT\KBNA-RW20L-DER_DIXII\KBNA TIPPN4 SID RW20L DIXII 20250422_1036 EDT.pdf
Procedure Name:	TIPPN4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW20L:DER	WP	N36° 06' 45.7670", W086° 40' 03.5138"	589.8	VNAV	130	FLY_OVER	TF
DIXII	WP	N35° 56' 44.4000", W086° 44' 50.8300"	5000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 TIPP4 path KBNA:RW20L:DER_DIXII

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:	Not 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	SYI	N35° 33' 43.1090", W086° 26' 20.9383"	1.0 W	40	L		NO	Enabled	59 %	61 %
2	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	23.4 %	26.6 %
3	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	67.9 %	69.6 %
4	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	40.9 %	39.6 %
5	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled	26.9 %	29.9 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.6	HCH	BNA				
2.3	HCH	BNA	SYI			
3.7	HCH	BNA				
3.8	HCH	BNA	SYI			
5.9						
7.5	GHM	SYI	BNA			
7.9	GHM	SYI	BNA	BWG		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 06' 43.7564", W086° 40' 04.3022"	N36° 05' 13.8022", W086° 40' 42.7950"	1.5868
2	N36° 01' 13.7068", W086° 42' 39.8206"	N35° 59' 43.9426", W086° 43' 23.5179"	1.6065

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW20L:DER	DIXII	SYI, BWG, BNA, HCH, GHM	

DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

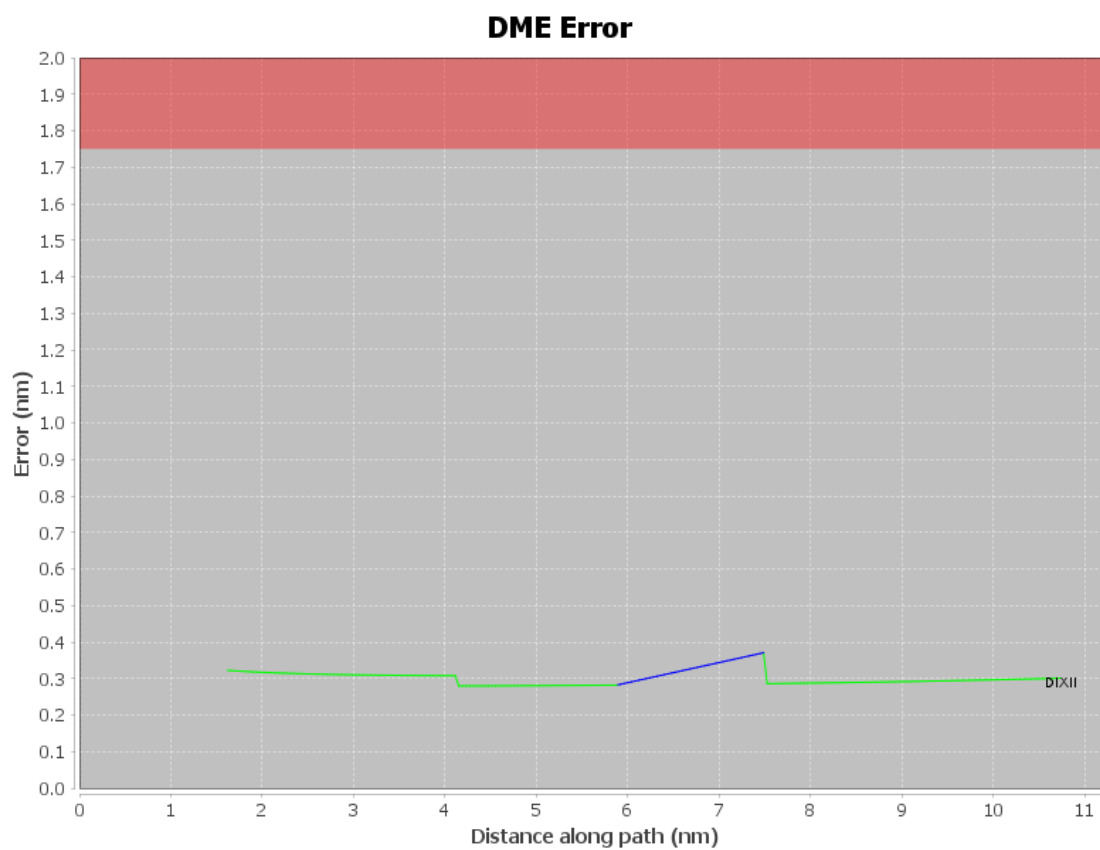
User Data Files

File Name

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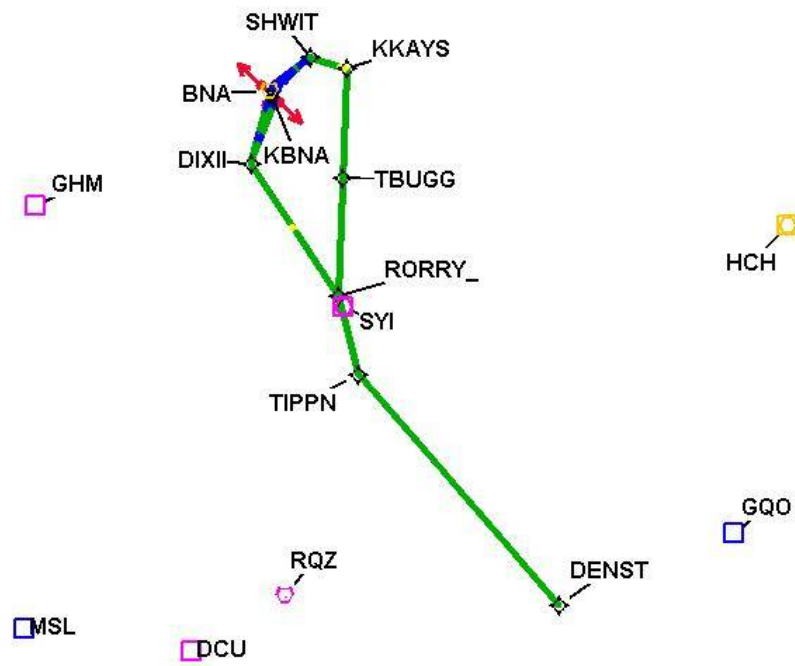
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		



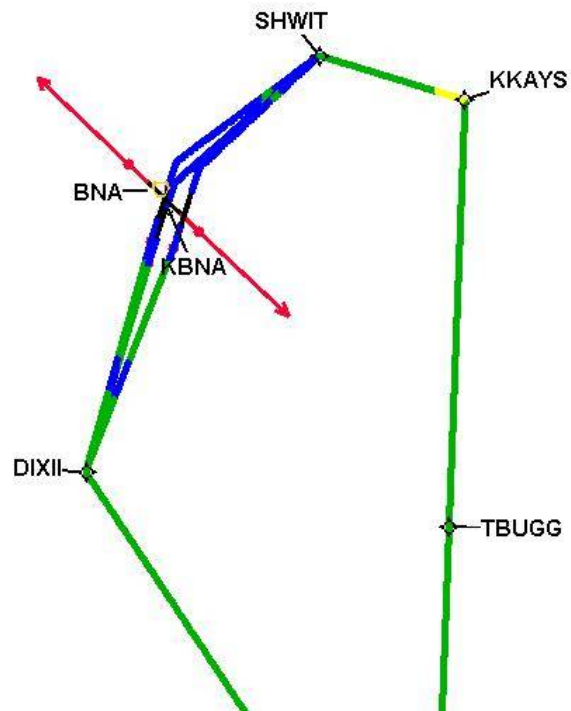
DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

Graphic Depiction 1



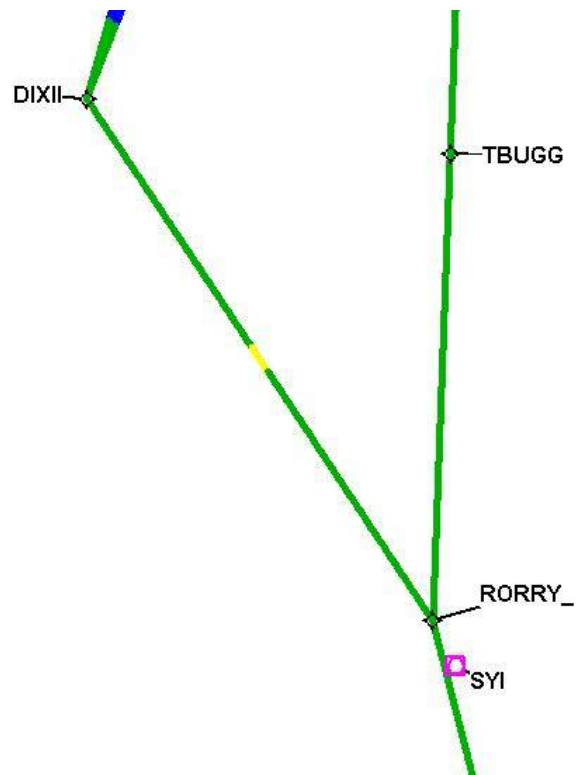
DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

Graphic Depiction 2



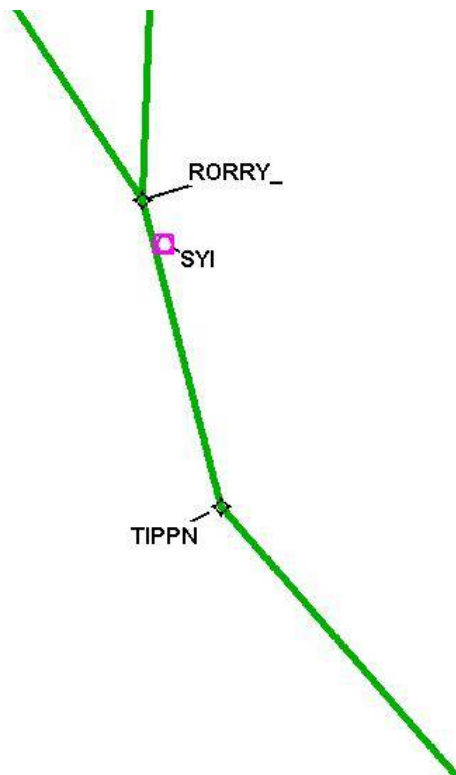
DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

Graphic Depiction 3



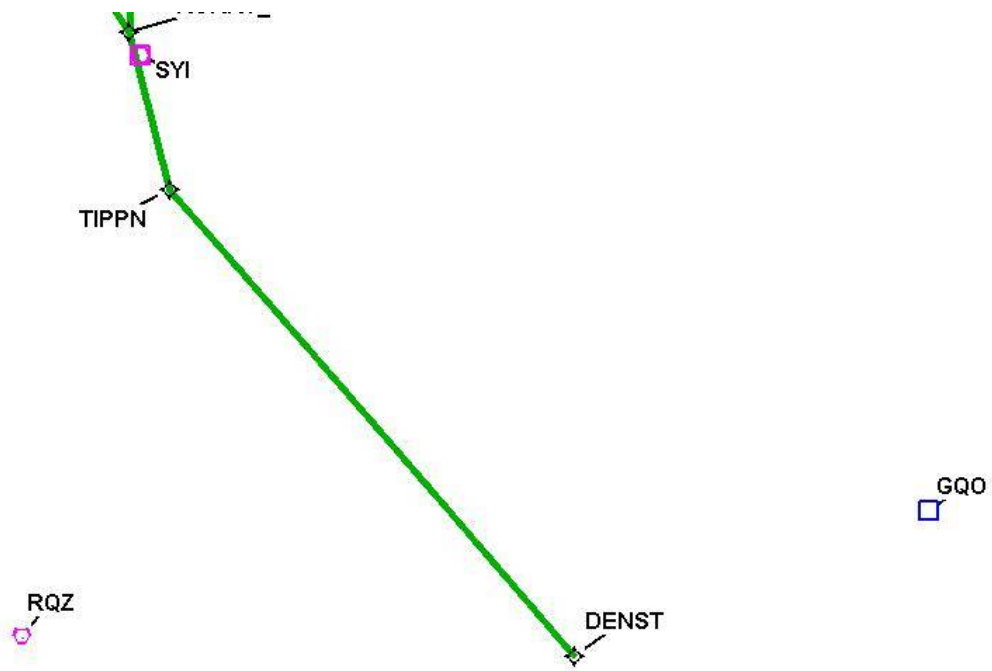
DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

Graphic Depiction 4



DME DME Assessment Results for TIPPN4 path KBNA:RW20L:DER_DIXII

Graphic Depiction 5



DME DME Assessment Results for TIPPN4 path KBNA:RW20R:DER_DIXII

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\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPPN4\DME\KBNA TIPPN4 (RNAV) SID DME 03 MAR 2025.tgs
Output File:	C:\Users\David C-CTR Cook\Documents\TARGETS WORK\DME-DME WORK\KBNA 2025\KBNA SIDs (9) 27_NOV_2025\TIPPN4\DME\KBNA [IFPA] TIPPN4 20250422_1036 EDT\KBNA-RW20R-DER_DIXII\KBNA TIPPN4 SID RW20R DIXII 20250422_1036 EDT.pdf
Procedure Name:	TIPPN4
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/22/2025 10:36 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
KBNA:RW20R:DER	WP	N36° 07' 03.6342", W086° 41' 11.3105"	598.7	VNAV	130	FLY_OVER	TF
DIXII	WP	N35° 56' 44.4000", W086° 44' 50.8300"	5000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KBNA [IFPA]
Climb Gradient:	500.0 ft/NM up to 1099.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 TIPP4 path KBNA:RW20R:DER_DIXII

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:	Not 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	SYI	N35° 33' 43.1090", W086° 26' 20.9383"	1.0 W	40	L		NO	Enabled	53.7 %	55.8 %
2	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	24.7 %	27.7 %
3	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	66.8 %	68.6 %
4	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	38.3 %	37.1 %
5	GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	L		NO	Enabled	28.5 %	31.5 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.9	HCH	BNA				
3.3	HCH	BNA	SYI			
5.9						
7.3	GHM	SYI	BNA			
7.8	GHM	SYI	BWG	BNA		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 07' 01.5881", W086° 41' 12.1129"	N36° 05' 15.2626", W086° 41' 51.7188"	1.85
2	N36° 01' 23.0630", W086° 43' 13.2126"	N35° 59' 59.4668", W086° 43' 42.5179"	1.4466

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KBNA:RW20R:DER	DIXII	SYI, BWG, BNA, HCH, GHM	

DME DME Assessment Results for TIPPN4 path KBNA:RW20R:DER_DIXII

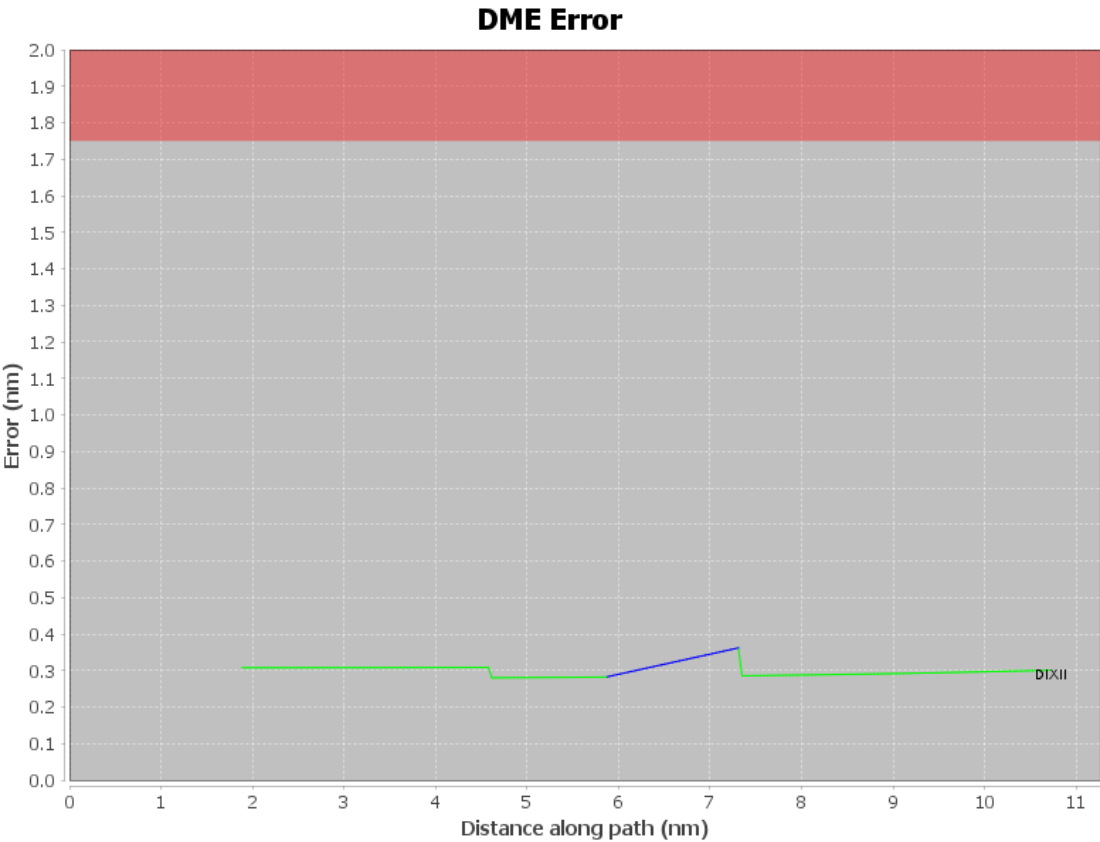
User Data Files

File Name

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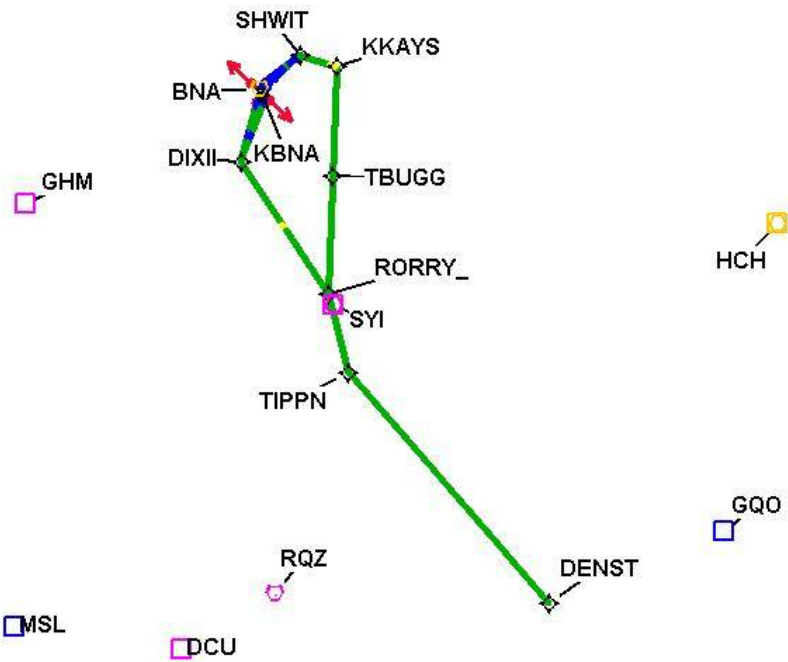
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	GHM FAA 755483-13 GHM	N35° 50' 02.1911", W087° 27' 06.4824"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
2	GQO FAA 110610-10 GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	1013.6	115.8	GQO FAA 110610-10	
ESV:		Bearing [True]: 244.0° to 314.0° Bearing [Mag]: 244.0° to 314.0°				Arc Distance: Out to 110.0 NM Altitude: 11000.0 to 19100.0 ft		
3	HCH FAA 700766-35 HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	3040	117.6	HCH FAA 700766-35	
ESV:		Bearing [True]: 288.0° to 300.0° Bearing [Mag]: 290.0° to 302.0°				Arc Distance: Out to 83.0 NM Altitude: 5000.0 to 8800.0 ft		

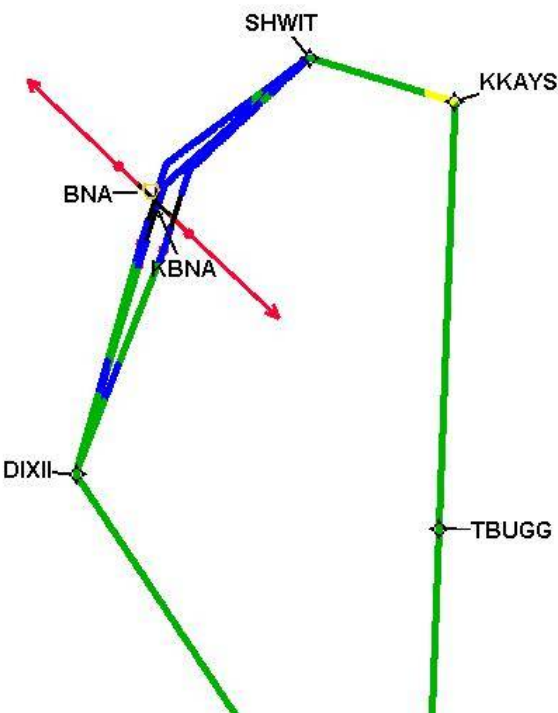


DME DME Assessment Results for TIPPN4 path KBNA:RW20R:DER_DIXII

Graphic Depiction 1

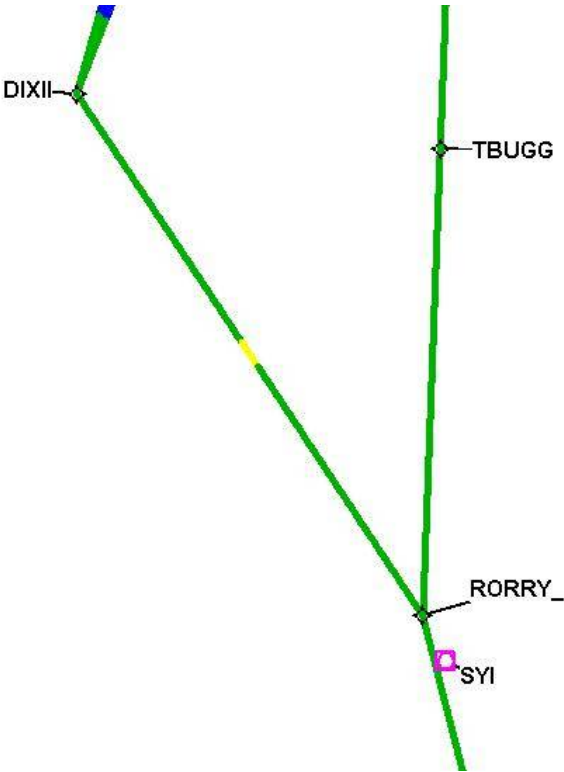


Graphic Depiction 2

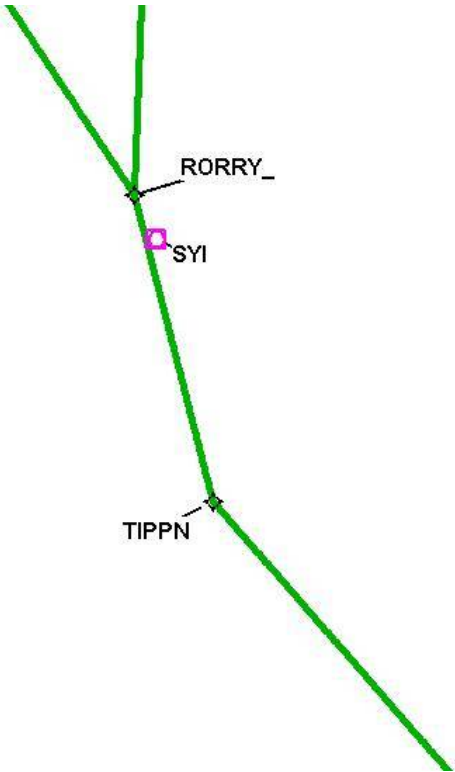


DME DME Assessment Results for TIPPN4 path KBNA:RW20R:DER_DIXII

Graphic Depiction 3



Graphic Depiction 4



DME DME Assessment Results for TIPPN4 path KBNA:RW20R:DER_DIXII

Graphic Depiction 5

