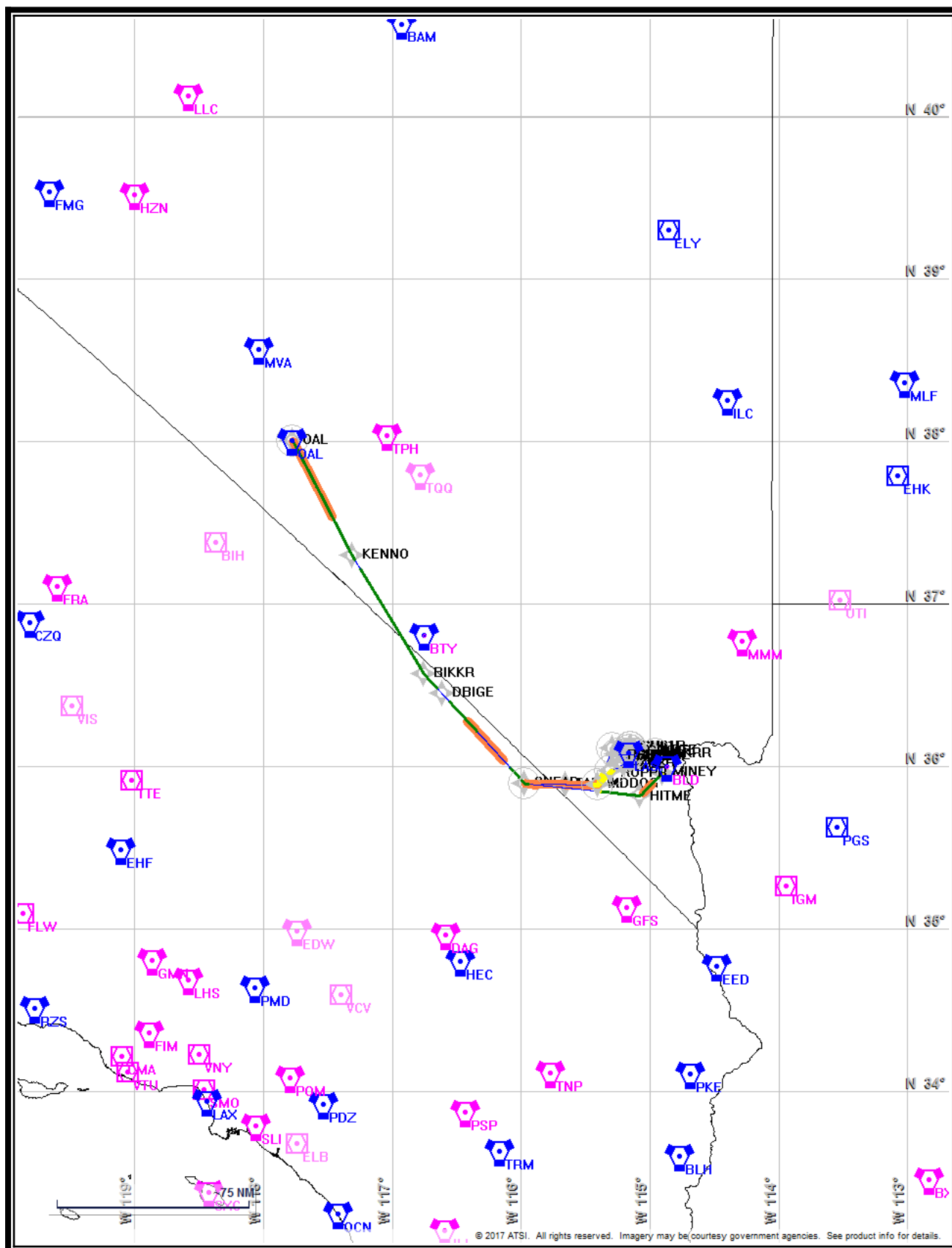


Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID RW01L OAL 20170517_1134
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:34:44 AM
Input File: [KLAS SHEAD1 SID RW01L OAL.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

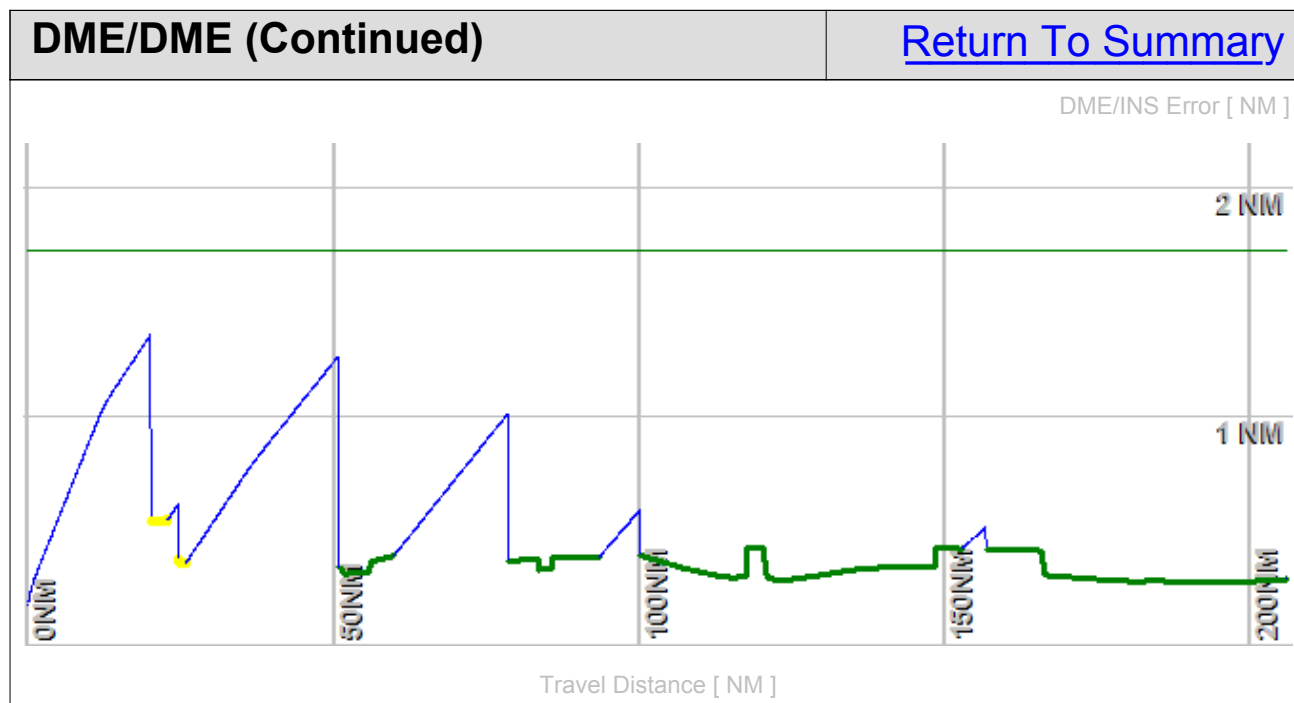
Flyability	✓	Please Check Flyability Results
DME/DME	✓	5 Critical DMEs Exist: BLD LAS GOG BTY TPH
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01L(...	WP	N 36° 4' 36.44" W 115° 10' 10.30"	2181.3	VNAV	0.0	Fly Over	TF
RW19R(...	WP	N 36° 5' 51.77" W 115° 9' 27.19"	2123.7	VNAV	130.0	Fly Over	VA
GH01L	WP	N 36° 6' 56.41" W 115° 8' 50.18"	2681.0	VNAV	145.0	Fly Over	DF
BESSY	WP	N 36° 6' 27.67" W 115° 17' 22.56"	5400.0	VNAV	180.0	Fly By	TF
MDDOG	WP	N 35° 53' 8.03" W 115° 24' 19.14"	9000.0	VNAV	180.0	Fly By	TF
TARRK	WP	N 35° 53' 25.66" W 115° 38' 58.32"	11000.0	VNAV	210.0	Fly By	TF
SHEAD	WP	N 35° 53' 44.62" W 115° 58' 15.99"	14000.0	VNAV	210.0	Fly By	TF
DBIGE	WP	N 36° 26' 44.76" W 116° 36' 29.61"	21000.0	VNAV	240.0	Fly By	TF
BIKKR	WP	N 36° 34' 0.00" W 116° 45' 0.00"	21000.0	VNAV	240.0	Fly By	TF
KENNO	WP	N 37° 17' 53.37" W 117° 18' 36.81"	25000.0	VNAV	240.0	Fly By	TF
OAL	WP	N 38° 0' 11.74" W 117° 46' 13.61"	25000.0	VNAV	240.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 6000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure	
	Selected Airport: KLAS	
	Aircraft Category: Cat D	
	Climb Gradient: 500.0 ft/NM up to 6000.0 ft MSL	
	Ground Speeds:	
	Departure: 120.0 Kts out to 10.0 NM	
	Table:	
	200.0 Kts up to 11000.0 ft	
	240.0 Kts up to 18000.0 ft	
	260.0 Kts up to 24000.0 ft	
340.0 Kts up to 99900.0 ft		
Wind Settings: <i>None assigned</i>		
Descent During a Turn: Allowed		
VNAV Mode: Flight Plan		
Aircraft ALTITUDE at Fly-By WP BESSY too high.		
Required IAS at Fly-By WP TARRK could not be reached with given A/C acceleration performance.		
Flight Track comes into contact with terrain. Minimum AGL along route was -48.14 Ft.		
Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.		

DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
Critical DMEs: Allowed		
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Minimum MSL DMEs Avail: 7873 ft		
Total Number of DMEs Used: 8		
Maximum DME Error: 1.361 NM.		
5 Critical DMEs were found.		
Available DMEs: BLD, LAS, GOG, BTY, HEC, OAL, TPH, MVA		

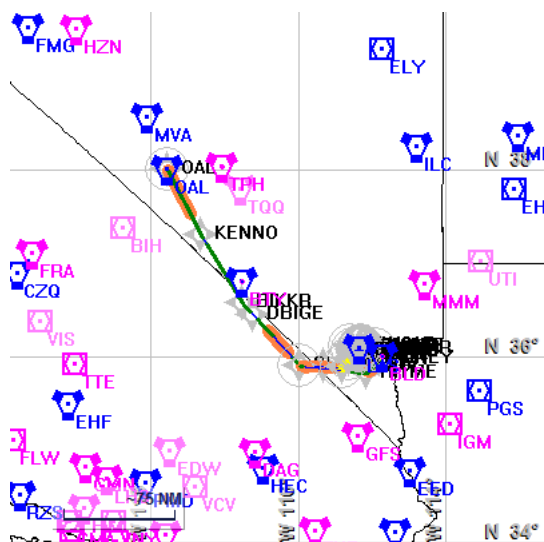


DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H + ESV	User	YES	2.494	Enabled	10.5%	10.6%
2	LAS	N 36° 4' 46.93" W 115° 9' 35.27" 15 E	H	Database	YES	2.494	Enabled	2.3%	1.9%
3	GOG	N 35° 53' 39.30" W 115° 29' 45.90" 00 E	DME H	Database	YES	2.523	Enabled	17.1%	19.5%
4	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H + ESV	User	YES	2.345	Enabled	36.4%	40.5%
5	HEC	N 34° 47' 49.26" W 116° 27' 46.52" 15 E	H	Database	NO	1.361	Enabled	1.0%	1.1%
6	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L + ESV	User	YES	2.442	Enabled	32.4%	40.7%
7	OAL	N 38° 0' 11.74" W 117° 46' 13.60" 17 E	H	Database	NO	1.361	Enabled	3.8%	5.2%
8	MVA	N 38° 33' 55.08" W 118° 1' 58.27" 17 E	H	Database	NO	1.361	Enabled	4.4%	6.2%
	Total Coverage							54.0%	62.8%
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 36° 4' 36.44" W 115° 10' 10.30"			N 35° 57' 21.50" W 115° 22' 7.46"			20.0		
VOR: VGT			Available from N 36° 4' 36.44" W 115° 10' 10.30" to N 35° 57' 21.50" W 115° 22' 7.46"						
VOR: BLD			Available from N 36° 4' 36.44" W 115° 10' 10.30" to N 35° 57' 21.50" W 115° 22' 7.46"						
VOR: LAS			Available from N 36° 4' 36.44" W 115° 10' 10.30" to N 35° 57' 21.50" W 115° 22' 7.46"						
2	N 35° 54' 47.76" W 115° 23' 27.37"			N 35° 53' 20.06" W 115° 24' 36.96"			1.8		
VOR: VGT			Available from N 35° 54' 47.76" W 115° 23' 27.37" to N 35° 53' 20.06" W 115° 24' 36.96"						
VOR: BLD			Available from N 35° 54' 47.76" W 115° 23' 27.37" to N 35° 53' 20.06" W 115° 24' 36.96"						
VOR: LAS			Available from N 35° 54' 47.76" W 115° 23' 27.37" to N 35° 53' 20.06" W 115° 24' 36.96"						

DME/DME (Continued)			Return To Summary
Inertial Drift Segments (Continued)			
#	Start Location	End Location	Length [NM]
3	N 35° 53' 9.98" W 115° 26' 9.04"	N 35° 53' 43.21" W 115° 56' 40.89"	24.8
	VOR: VGT	Available from N 35° 53' 9.98" W 115° 26' 9.04" to N 35° 53' 41.48" W 115° 54' 47.67"	
	VOR: BLD	Available from N 35° 53' 9.98" W 115° 26' 9.04" to N 35° 53' 27.33" W 115° 40' 26.57"	
	VOR: LAS	Available from N 35° 53' 9.98" W 115° 26' 9.04" to N 35° 53' 43.21" W 115° 56' 40.89"	
4	N 35° 53' 43.51" W 115° 57' 0.58"	N 35° 53' 43.51" W 115° 57' 0.58"	0.0
5	N 35° 59' 36.00" W 116° 4' 59.96"	N 36° 13' 13.73" W 116° 20' 44.44"	18.7
	VOR: BTY	Available from N 36° 13' 7.41" W 116° 20' 37.11" to N 36° 13' 13.73" W 116° 20' 44.44"	
6	N 36° 24' 4.30" W 116° 33' 21.94"	N 36° 28' 57.52" W 116° 39' 5.10"	6.7
	VOR: BTY	Available from N 36° 24' 4.30" W 116° 33' 21.94" to N 36° 28' 57.52" W 116° 39' 5.10"	
7	N 37° 13' 3.13" W 117° 14' 52.18"	N 37° 16' 20.97" W 117° 17' 25.22"	3.9
	VOR: BTY	Available from N 37° 13' 3.13" W 117° 14' 52.18" to N 37° 16' 20.97" W 117° 17' 25.22"	
	VOR: TQQ	Available from N 37° 15' 8.60" W 117° 16' 29.20" to N 37° 16' 20.97" W 117° 17' 25.22"	
8	N 37° 59' 55.50" W 117° 46' 2.88"	N 38° 0' 10.58" W 117° 46' 12.84"	0.3
	VOR: MVA	Available from N 37° 59' 55.50" W 117° 46' 2.88" to N 38° 0' 10.58" W 117° 46' 12.84"	
	VOR: TPH	Available from N 37° 59' 55.50" W 117° 46' 2.88" to N 38° 0' 10.58" W 117° 46' 12.84"	
	VOR: OAL	Available from N 37° 59' 55.50" W 117° 46' 2.88" to N 38° 0' 10.58" W 117° 46' 12.84"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW01L(AER)	RW19R(DER)	
RW19R(DER)	GH01L	
GH01L	BESSY	BLD and LAS
BESSY	MDDOG	BLD, GOG, and LAS
MDDOG	TARRK	BLD, GOG, and LAS
TARRK	SHEAD	BLD, BTY, and GOG
SHEAD	DBIGE	BLD, BTY, GOG, and HEC
DBIGE	BIKKR	BTY and GOG
BIKKR	KENNO	TPH, BTY, GOG, and OAL
KENNO	OAL	TPH, BTY, GOG, MVA, and OAL

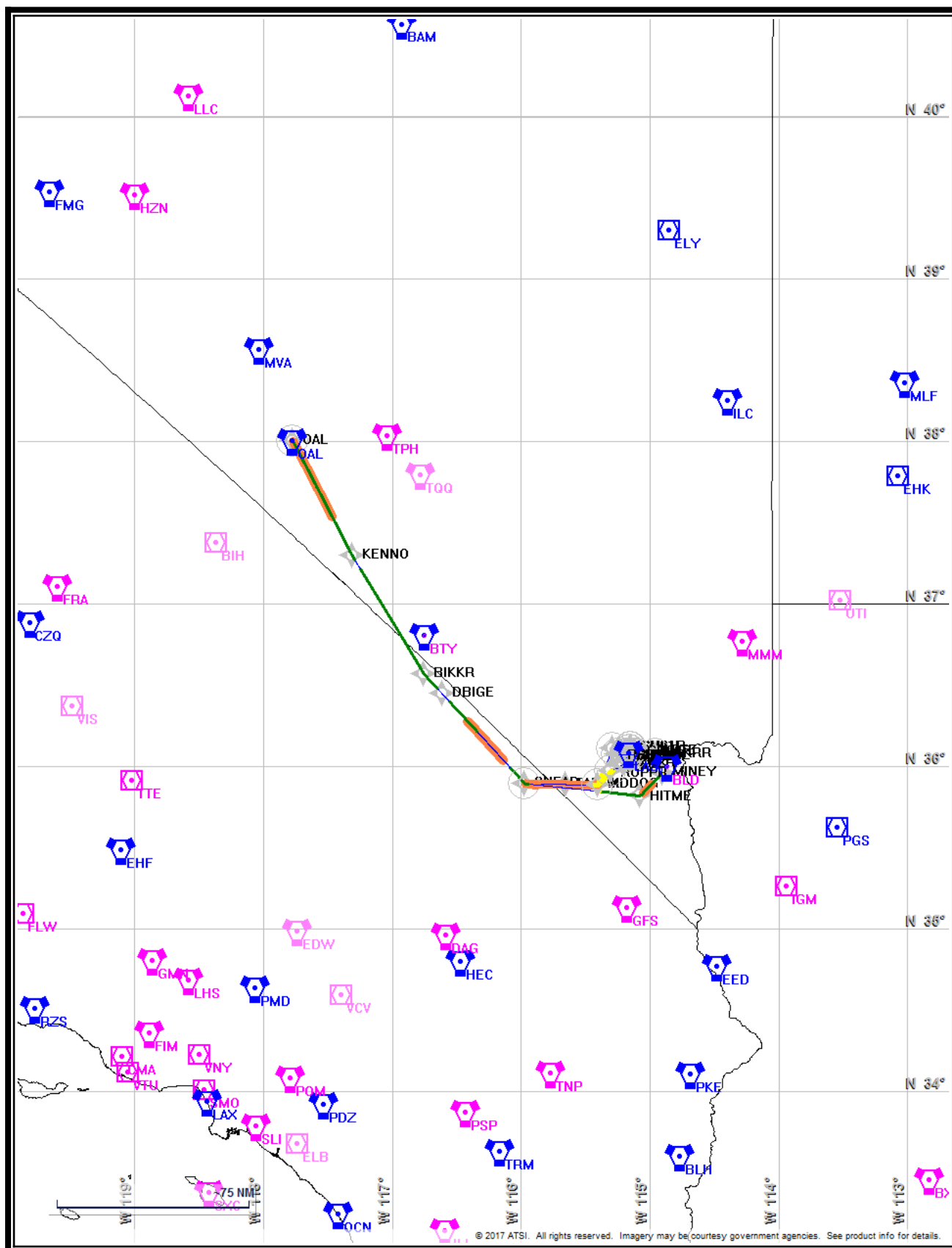
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID
RW01R BESSY
20170517_1135
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:35:45 AM
Input File: [KLAS SHEAD1 SID
RW01R BESSY.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

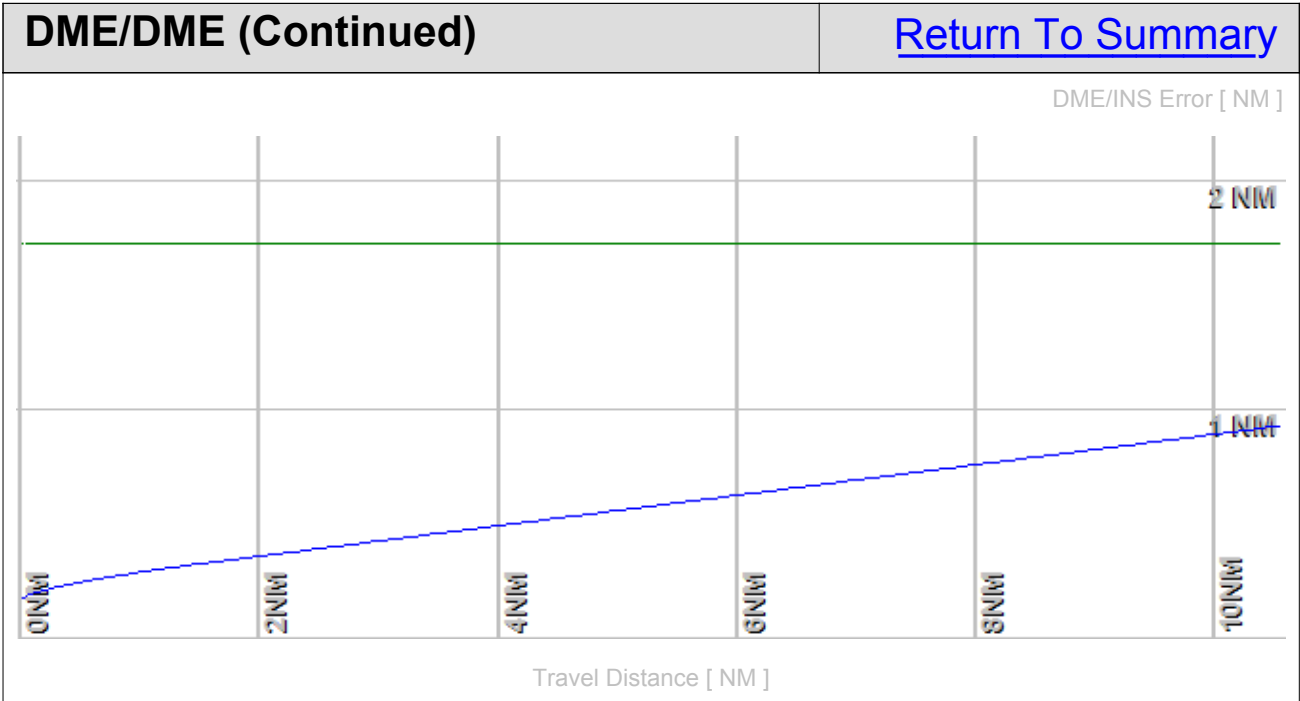
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01R(...	WP	N 36° 4' 31.68" W 115° 10' 0.43"	2175.2	VNAV	0.0	Fly Over	TF
RW19L(...	WP	N 36° 5' 54.88" W 115° 9' 12.80"	2112.8	VNAV	130.0	Fly Over	VA
GH01R	WP	N 36° 7' 0.75" W 115° 8' 35.10"	2681.0	VNAV	145.0	Fly Over	DF
BESSY	WP	N 36° 6' 27.67" W 115° 17' 22.56"	5400.0	VNAV	180.0	Fly Over	TF
Climb Gradient: 500.0 ft/NM up to 6000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: 500.0 ft/NM up to 6000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Aircraft ALTITUDE at Fly-Over WP BESSY too high. Flight Track comes into contact with terrain. Minimum AGL along route was -52.49 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

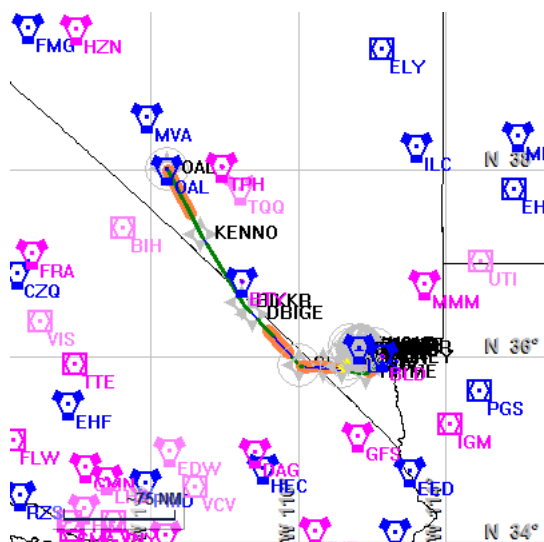
DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
	Critical DMEs: Allowed	
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Total Number of DMEs Used: 0		
Maximum DME Error Could not be Derived with < 2 DMEs.		
No Critical DMEs were found.		
Available DMEs: BLD, LAS		



DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 36° 4' 31.68" W 115° 10' 0.43"	N 36° 6' 27.88" W 115° 17' 21.25"	10.6
	VOR: VGT	Available from N 36° 4' 31.68" W 115° 10' 0.43" to N 36° 6' 27.88" W 115° 17' 21.25"	
	VOR: BLD	Available from N 36° 4' 31.68" W 115° 10' 0.43" to N 36° 6' 27.88" W 115° 17' 21.25"	
	VOR: LAS	Available from N 36° 4' 31.68" W 115° 10' 0.43" to N 36° 6' 27.88" W 115° 17' 21.25"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW01R(AER)	RW19L(DER)	
RW19L(DER)	GH01R	
GH01R	BESSY	BLD and LAS

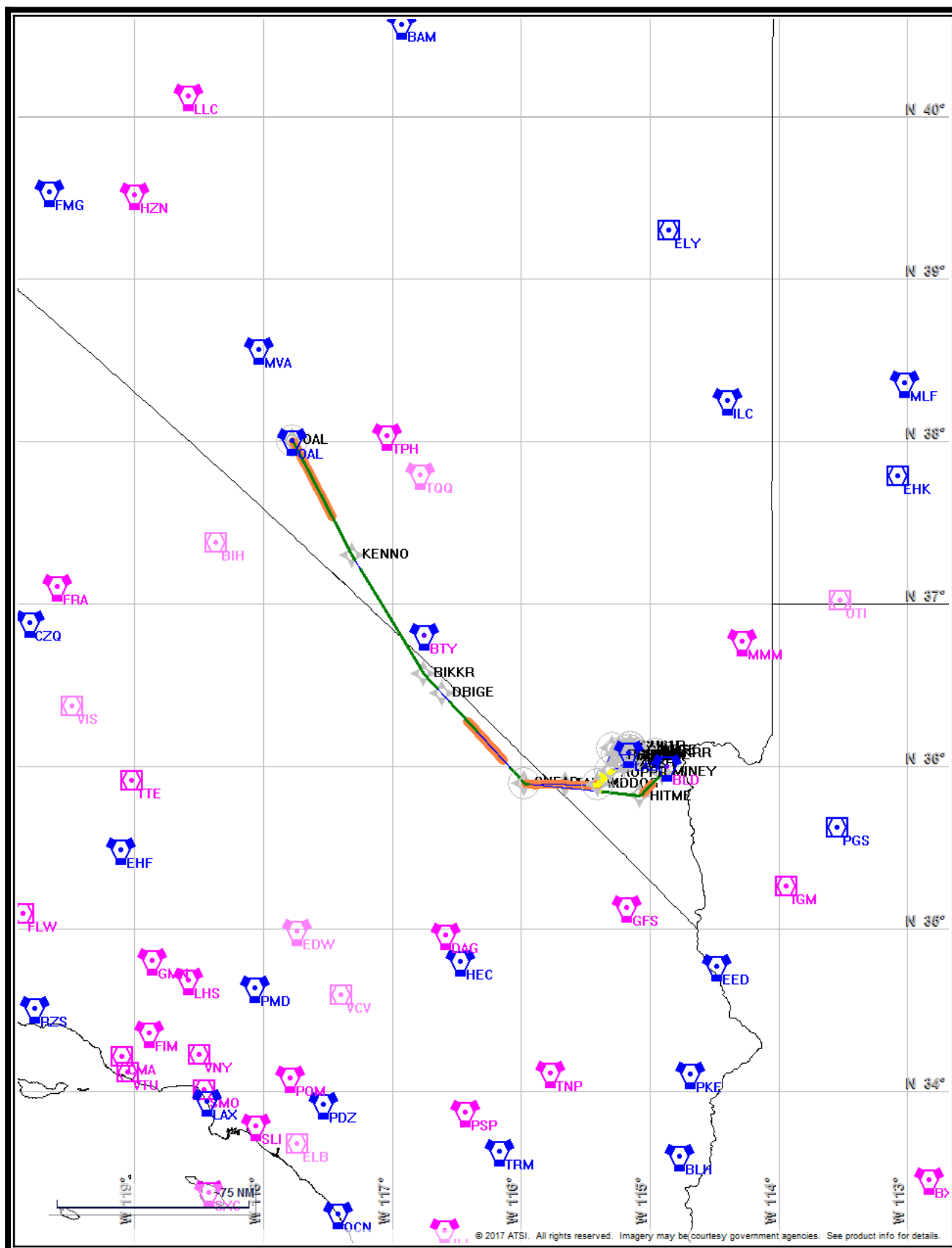
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Not Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID RW08L SHEAD 20170517_1136
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:36:54 AM
Input File: [KLAS SHEAD1 SID RW08L SHEAD.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

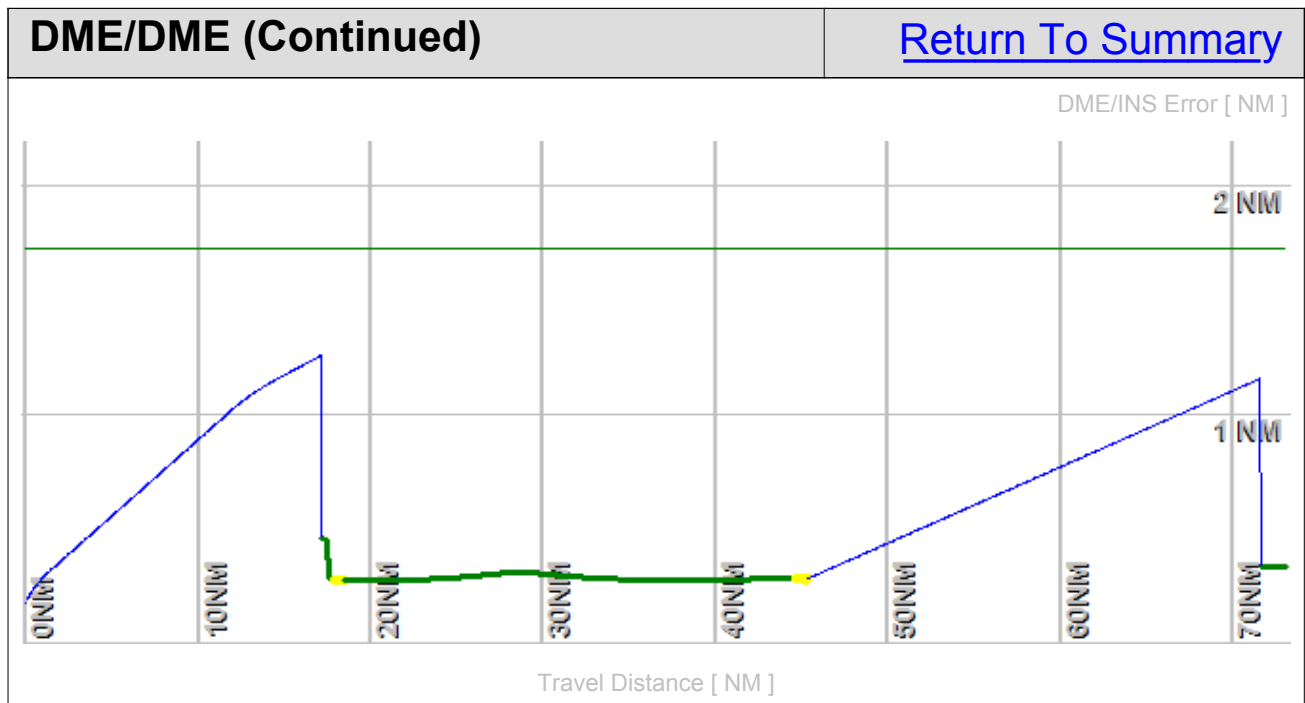
Flyability	✓	Please Check Flyability Results
DME/DME	✓	1 Critical DME Exists: LAS
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW08L(...	WP	N 36° 4' 34.95" W 115° 9' 46.64"	2179.4	VNAV	0.0	Fly Over	TF
RW26R(...	WP	N 36° 4' 35.07" W 115° 7' 15.93"	2067.9	VNAV	130.0	Fly Over	VA
GH08L	WP	N 36° 4' 35.14" W 115° 5' 39.88"	2681.0	VNAV	145.0	Fly Over	DF
WASTE	WP	N 36° 4' 35.14" W 115° 4' 25.72"	3000.0	VNAV	180.0	Fly By	TF
BAKRR	WP	N 36° 4' 33.00" W 114° 57' 11.00"	6000.0	VNAV	180.0	Fly By	TF
MINEY	WP	N 35° 57' 43.00" W 114° 53' 59.00"	8000.0	VNAV	180.0	Fly By	TF
HITME	WP	N 35° 49' 17.00" W 115° 4' 27.00"	10000.0	VNAV	210.0	Fly By	TF
SHEAD	WP	N 35° 53' 44.62" W 115° 58' 15.99"	14000.0	VNAV	210.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 400.0 ft/NM up to 8000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 400.0 ft/NM up to 8000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	<p>Aircraft ALTITUDE at Fly-By WP BAKRR too low.</p> <p>Aircraft ALTITUDE at Fly-By WP MINEY too high.</p> <p>Flight Track comes into contact with terrain. Minimum AGL along route was -10.03 Ft.</p> <p>Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>	

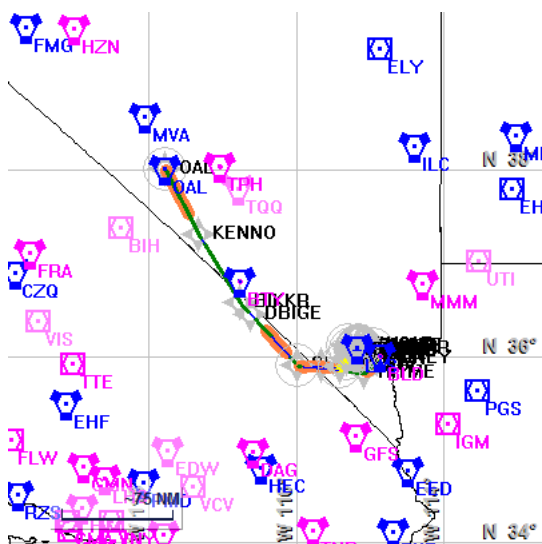
DME/DME		Return To Summary
Settings:	RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.165 NM INS Drift Rate: 8.000 NM/Hour Range Mode: OSV Co-Frequencies: Evaluated RNP Edges: Evaluated Min DME Range: 3.0 NM Allowed Gap Length: 4.0 NM DME Types: VOR/DME, VORTAC, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Minimum MSL DMEs Avail: 8000 ft	
	Total Number of DMEs Used: 4 Maximum DME Error: 1.261 NM. 1 Critical DME was found. Available DMEs: LAS, BLD, GOG, BTY	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	GOG	N 35° 53' 39.30" W 115° 29' 45.90" 00 E	DME H	Database	NO	1.473	Enabled	22.8%	25.7%
2	LAS	N 36° 4' 46.93" W 115° 9' 35.27" 15 E	H	Database	YES	1.778	Enabled	35.1%	38.5%
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H + ESV	User	NO	1.261	Enabled	13.9%	14.8%
4	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H + ESV	User	NO	1.261	Enabled	1.6%	2.0%
	Total Coverage							36.7%	40.5%
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	
1	N 36° 4' 34.95" W 115° 9' 46.64"			N 35° 57' 59.16" W 114° 54' 16.49"				17.1	
VOR: VGT			Available from N 36° 4' 34.95" W 115° 9' 46.64" to N 35° 57' 59.16" W 114° 54' 16.49"						
VOR: BLD			Available from N 36° 4' 34.95" W 115° 9' 46.64" to N 35° 57' 59.16" W 114° 54' 16.49"						
VOR: LAS			Available from N 36° 4' 34.95" W 115° 9' 46.64" to N 35° 57' 59.16" W 114° 54' 16.49"						
2	N 35° 50' 58.62" W 115° 24' 17.85"			N 35° 53' 36.03" W 115° 56' 27.23"				26.3	
VOR: VGT			Available from N 35° 50' 58.62" W 115° 24' 17.85" to N 35° 53' 27.48" W 115° 54' 39.44"						
VOR: BLD			Available from N 35° 50' 58.62" W 115° 24' 17.85" to N 35° 52' 17.65" W 115° 40' 12.54"						
VOR: LAS			Available from N 35° 50' 58.62" W 115° 24' 17.85" to N 35° 53' 36.03" W 115° 56' 27.23"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW08L(AER)	RW26R(DER)	
RW26R(DER)	GH08L	
GH08L	WASTE	LAS
WASTE	BAKRR	BLD and LAS
BAKRR	MINEY	BLD, GOG, and LAS
MINEY	HITME	BLD, GOG, and LAS
HITME	SHEAD	BLD, BTY, GOG, and LAS

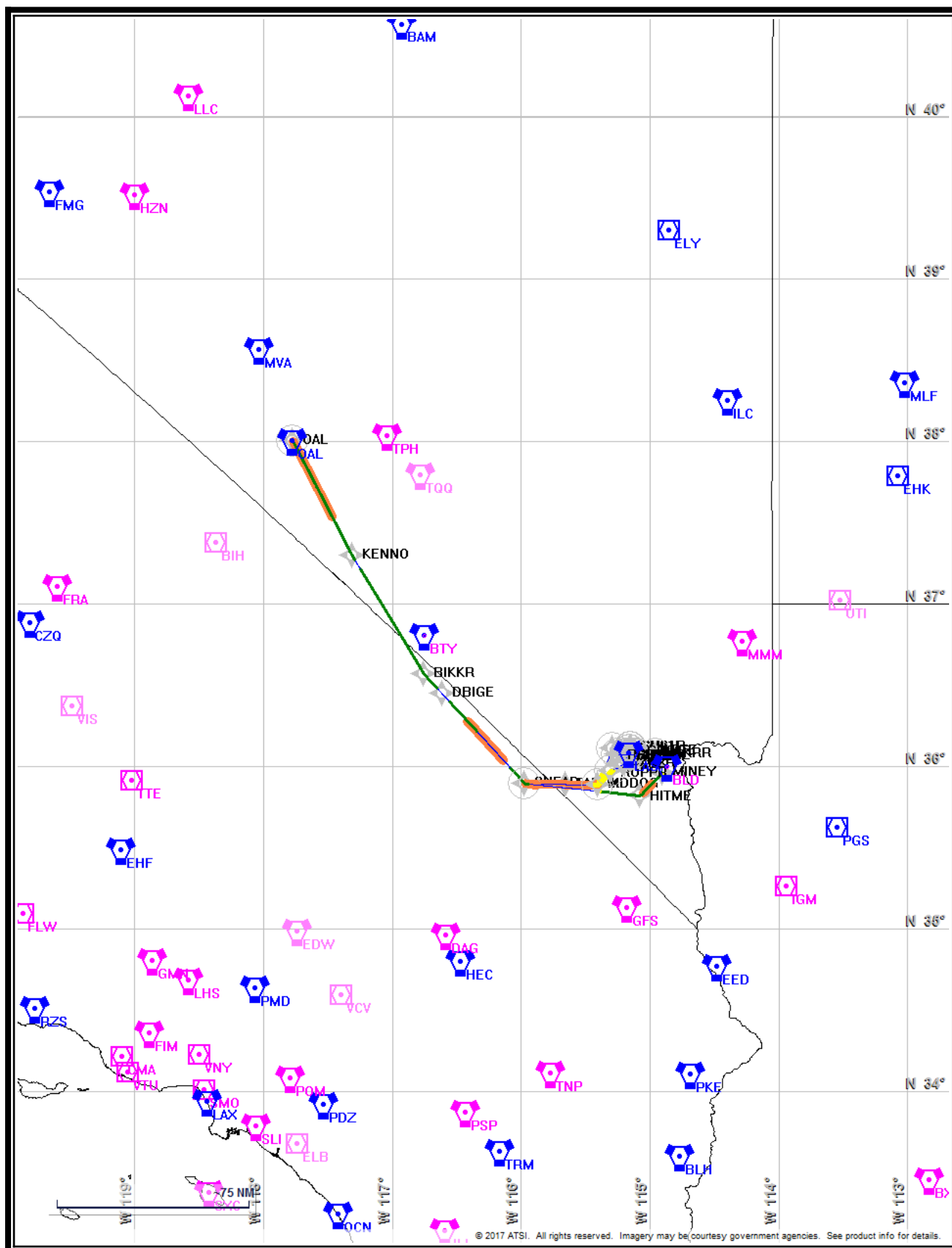
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID
RW08R BAKRR
20170517_1137
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:37:55 AM
Input File: [KLAS SHEAD1 SID
RW08R BAKRR.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW08R(...	WP	N 36° 4' 25.06" W 115° 9' 41.16"	2157.0	VNAV	0.0	Fly Over	TF
RW26L(...	WP	N 36° 4' 25.17" W 115° 7' 32.97"	2083.5	VNAV	130.0	Fly Over	VA
GH08R	WP	N 36° 4' 25.25" W 115° 5' 59.17"	2681.0	VNAV	145.0	Fly Over	DF
JESJI	WP	N 36° 4' 25.22" W 115° 4' 42.73"	3000.0	VNAV	180.0	Fly By	TF
BAKRR	WP	N 36° 4' 33.00" W 114° 57' 11.00"	6000.0	VNAV	180.0	Fly Over	TF

Climb Gradient:

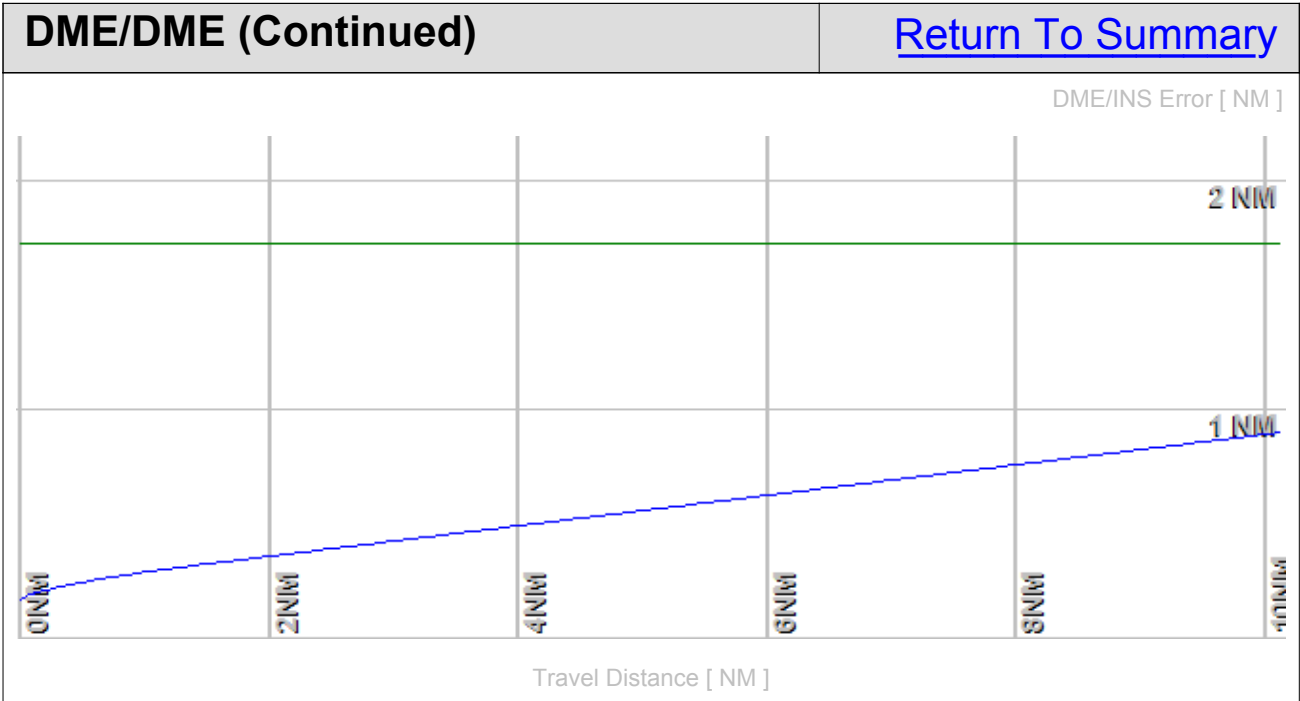
Table:

500.0 ft/NM up to 2681.0 ft MSL

400.0 ft/NM up to 8000.0 ft MSL

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 400.0 ft/NM up to 8000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	<p>Aircraft ALTITUDE at Fly-Over WP BAKRR too low.</p> <p>Flight Track comes into contact with terrain. Minimum AGL along route was -70.69 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>	

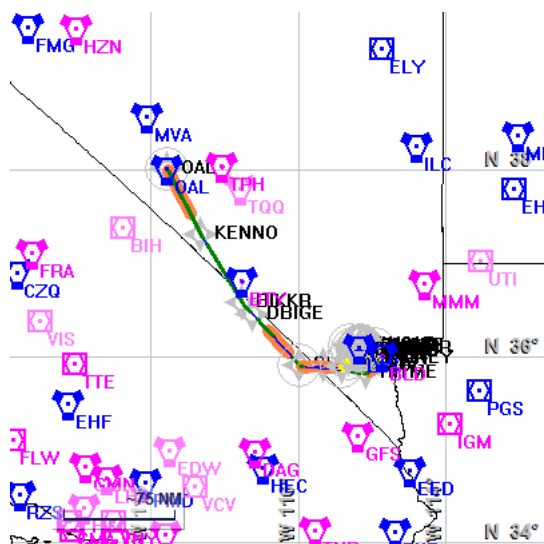
DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
Critical DMEs: Allowed		
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Total Number of DMEs Used: 0		
Maximum DME Error Could not be Derived with < 2 DMEs.		
No Critical DMEs were found.		
Available DMEs: LAS, BLD		



DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 36° 4' 25.06" W 115° 9' 41.16"	N 36° 4' 32.98" W 114° 57' 12.04"	10.1
	VOR: VGT	Available from N 36° 4' 25.06" W 115° 9' 41.16" to N 36° 4' 32.98" W 114° 57' 12.04"	
	VOR: BLD	Available from N 36° 4' 25.06" W 115° 9' 41.16" to N 36° 4' 32.98" W 114° 57' 12.04"	
	VOR: LAS	Available from N 36° 4' 25.06" W 115° 9' 41.16" to N 36° 4' 32.98" W 114° 57' 12.04"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW08R(AER)	RW26L(DER)	
RW26L(DER)	GH08R	
GH08R	JESJI	
JESJI	BAKRR	BLD and LAS

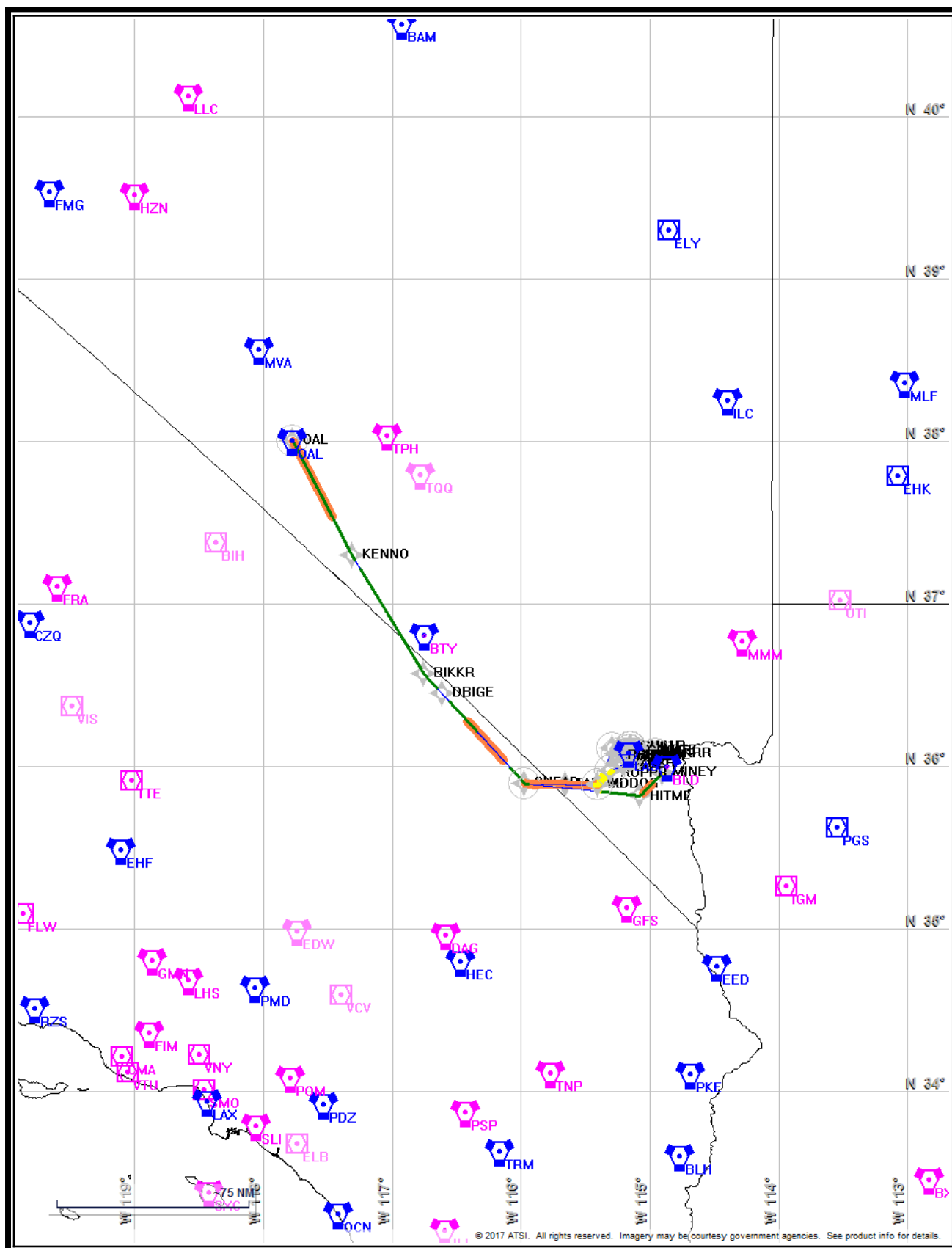
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Not Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID RW19L MDDOG 20170517_1138
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:38:57 AM
Input File: [KLAS SHEAD1 SID RW19L MDDOG.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW19L(...	WP	N 36° 5' 47.06" W 115° 9' 17.28"	2077.8	VNAV	0.0	Fly Over	TF
RW01R(...	WP	N 36° 4' 27.26" W 115° 10' 2.96"	2210.2	VNAV	130.0	Fly Over	VA
GH19L	WP	N 36° 3' 32.09" W 115° 10' 34.54"	2681.0	VNAV	145.0	Fly Over	DF
FIXIX	WP	N 36° 0' 54.10" W 115° 12' 4.79"	2800.0	VNAV	180.0	Fly By	TF
ROPPR	WP	N 35° 58' 16.27" W 115° 18' 5.99"	6500.0	VNAV	180.0	Fly By	TF
MDDOG	WP	N 35° 53' 8.03" W 115° 24' 19.14"	9000.0	VNAV	180.0	Fly Over	TF

Climb Gradient:

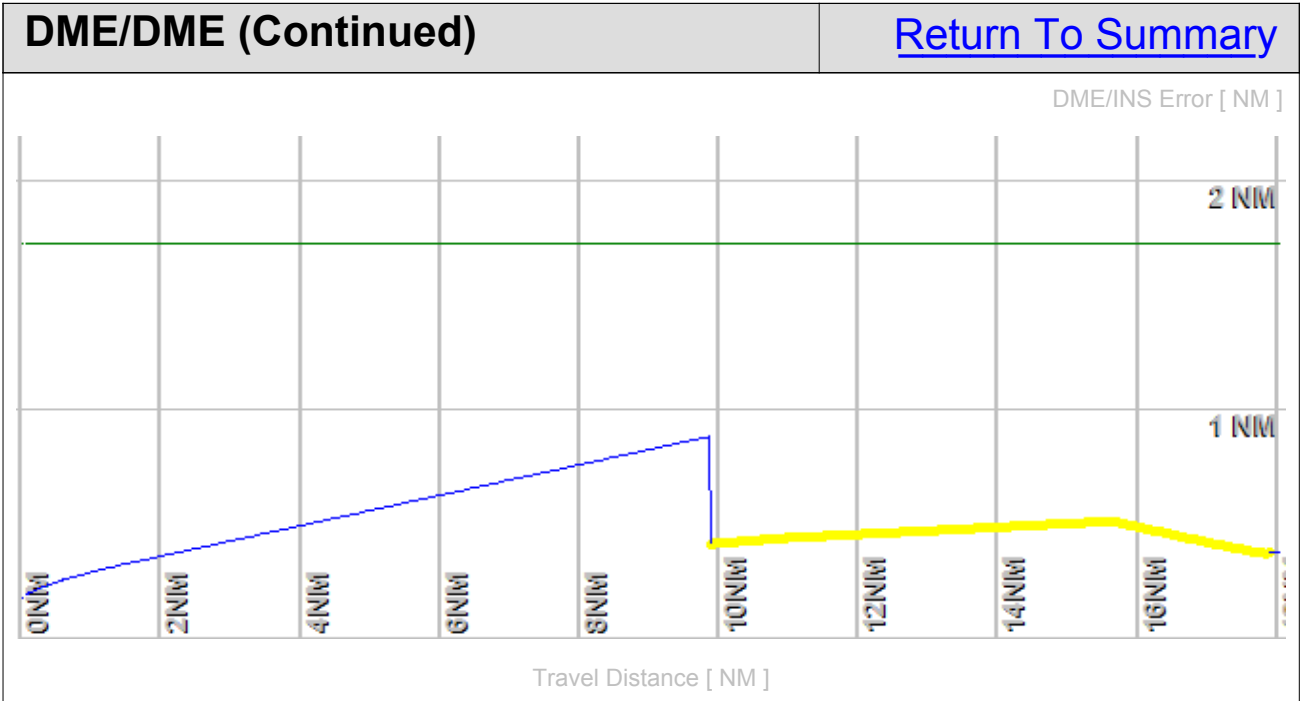
Table:

500.0 ft/NM up to 2681.0 ft MSL

483.0 ft/NM up to 9000.0 ft MSL

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 483.0 ft/NM up to 9000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	<p>Aircraft ALTITUDE at Fly-By WP FIXIX too high.</p> <p>Aircraft ALTITUDE at Fly-By WP ROPPR too high.</p> <p>Flight Track comes into contact with terrain. Minimum AGL along route was -32.30 Ft.</p> <p>Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>	

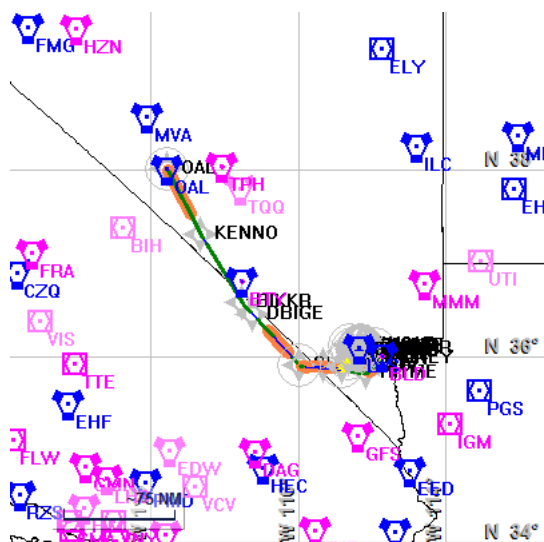
DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
Critical DMEs: Allowed		
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Minimum MSL DMEs Avail: 6294 ft		
Total Number of DMEs Used: 3		
Maximum DME Error: 0.885 NM.		
No Critical DMEs were found.		
Available DMEs: BLD, LAS, GOG		



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H + ESV	User	NO	1.283	Enabled	26.8%	31.9%
2	LAS	N 36° 4' 46.93" W 115° 9' 35.27" 15 E	H	Database	NO	1.283	Enabled	34.8%	44.2%
3	GOG	N 35° 53' 39.30" W 115° 29' 45.90" 00 E	DME H	Database	NO	1.283	Enabled	8.0%	12.3%
	Total Coverage							34.8%	44.2%
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	
1	N 36° 5' 47.06" W 115° 9' 17.28"			N 35° 58' 46.16" W 115° 16' 57.59"				9.9	
VOR: VGT			Available from N 36° 5' 47.06" W 115° 9' 17.28" to N 35° 58' 46.16" W 115° 16' 57.59"						
VOR: BLD			Available from N 36° 5' 47.06" W 115° 9' 17.28" to N 35° 58' 46.16" W 115° 16' 57.59"						
VOR: LAS			Available from N 36° 5' 47.06" W 115° 9' 17.28" to N 35° 58' 46.16" W 115° 16' 57.59"						
2	N 35° 53' 17.21" W 115° 24' 8.07"			N 35° 53' 10.07" W 115° 24' 16.69"				0.2	
VOR: VGT			Available from N 35° 53' 17.21" W 115° 24' 8.07" to N 35° 53' 10.07" W 115° 24' 16.69"						
VOR: BLD			Available from N 35° 53' 17.21" W 115° 24' 8.07" to N 35° 53' 10.07" W 115° 24' 16.69"						
VOR: LAS			Available from N 35° 53' 17.21" W 115° 24' 8.07" to N 35° 53' 10.07" W 115° 24' 16.69"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW19L(AER)	RW01R(DER)	
RW01R(DER)	GH19L	
GH19L	FIXIX	BLD and LAS
FIXIX	ROPPR	BLD, GOG, and LAS
ROPPR	MDDOG	BLD, GOG, and LAS

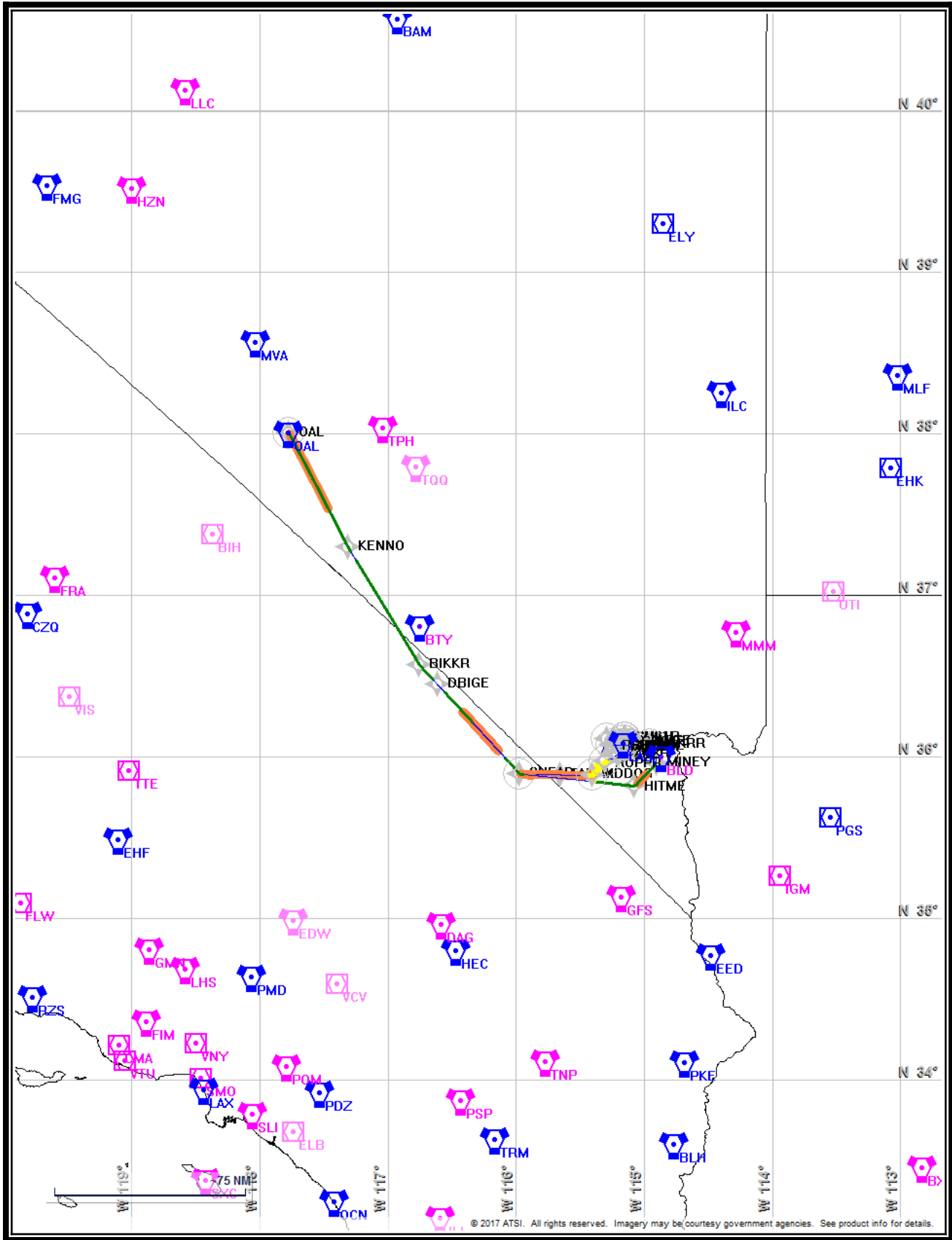
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID
RW19R ROPPR
20170517_1139
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:40:00 AM
Input File: [KLAS SHEAD1 SID
RW19R ROPPR.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

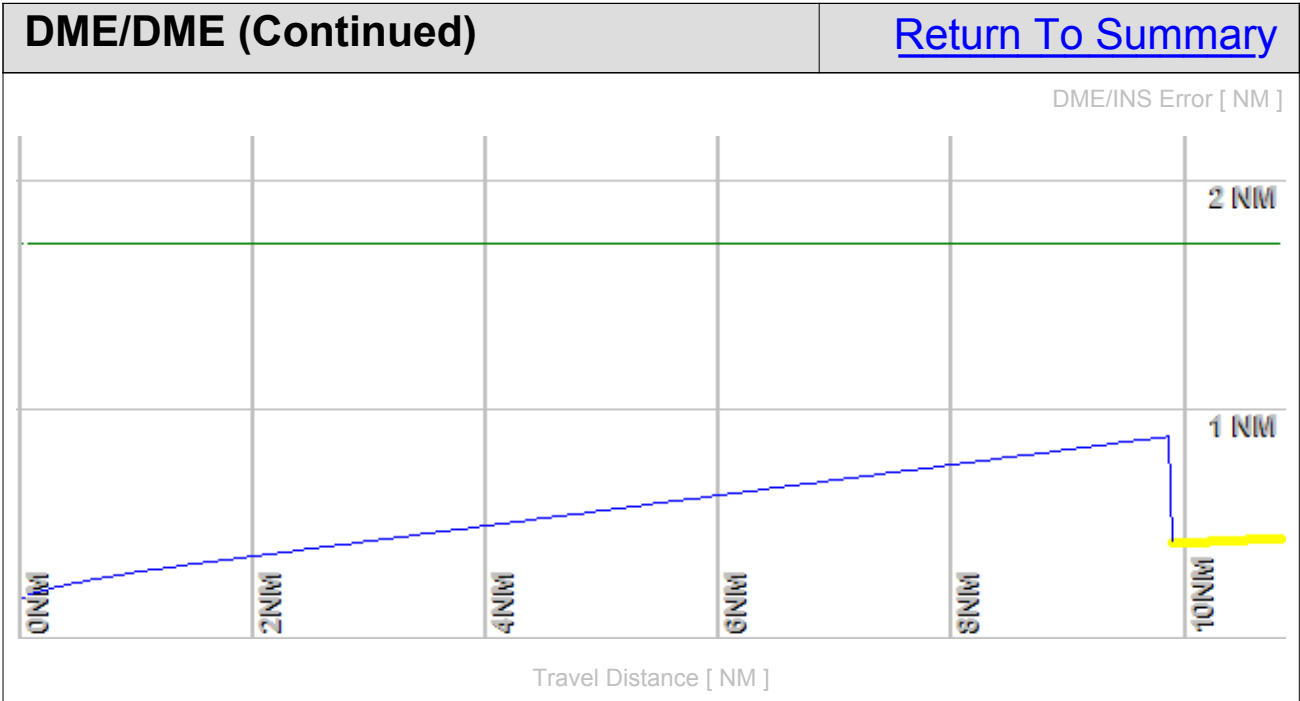
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW19R(...	WP	N 36° 5' 51.76" W 115° 9' 27.19"	2088.7	VNAV	0.0	Fly Over	TF
RW01L(...	WP	N 36° 4' 31.17" W 115° 10' 13.32"	2216.3	VNAV	130.0	Fly Over	VA
GH19R	WP	N 36° 3' 36.64" W 115° 10' 44.51"	2681.0	VNAV	145.0	Fly Over	DF
JAKER	WP	N 36° 0' 53.20" W 115° 12' 17.95"	2800.0	VNAV	180.0	Fly By	TF
ROPPR	WP	N 35° 58' 16.27" W 115° 18' 5.99"	6500.0	VNAV	180.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 483.0 ft/NM up to 9000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 483.0 ft/NM up to 9000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	<p>Aircraft ALTITUDE at Fly-By WP JAKER too high.</p> <p>Aircraft ALTITUDE at Fly-Over WP ROPPR too high.</p> <p>Flight Track comes into contact with terrain. Minimum AGL along route was -49.47 Ft.</p> <p>Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.</p>	

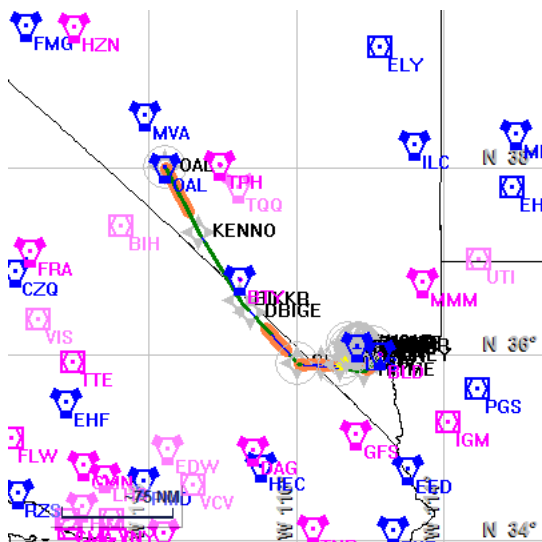
DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max):	Evaluated
	DME Restrictions:	Evaluated
	Inertial Drift:	Enabled
	Initial Drift:	0.165 NM
	INS Drift Rate:	8.000 NM/Hour
	Range Mode:	OSV
	Co-Frequencies:	Evaluated
	RNP Edges:	Evaluated
	Min DME Range:	3.0 NM
	Allowed Gap Length:	4.0 NM
	DME Types:	VOR/DME, VORTAC, Standalone, and User
	DME Include Angles:	30 to 150
	Critical DMEs:	Allowed
DoD Facilities:	Not included	
Foreign Facilities:	Not included	
Low DMEs:	Included	
Terminal DMEs:	Included	
Minimum MSL DMEs Avail:	6293 ft	
Total Number of DMEs Used: 3		
Maximum DME Error: 0.885 NM.		
No Critical DMEs were found.		
Available DMEs: BLD, LAS, GOG		



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H + ESV	User	NO	0.949	Enabled	8.2%	8.9%
2	LAS	N 36° 4' 46.93" W 115° 9' 35.27" 15 E	H	Database	NO	0.949	Enabled	8.2%	8.9%
3	GOG	N 35° 53' 39.30" W 115° 29' 45.90" 00 E	DME H	Database	NO	0.949	Enabled	0.0%	0.0%
	Total Coverage							8.2%	8.9%
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 36° 5' 51.76" W 115° 9' 27.19"			N 35° 58' 45.15" W 115° 17' 1.96"			9.9		
VOR: VGT			Available from N 36° 5' 51.76" W 115° 9' 27.19" to N 35° 58' 45.15" W 115° 17' 1.96"						
VOR: BLD			Available from N 36° 5' 51.76" W 115° 9' 27.19" to N 35° 58' 45.15" W 115° 17' 1.96"						
VOR: LAS			Available from N 36° 5' 51.76" W 115° 9' 27.19" to N 35° 58' 45.15" W 115° 17' 1.96"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW19R(AER)	RW01L(DER)	
RW01L(DER)	GH19R	
GH19R	JAKER	BLD and LAS
JAKER	ROPPR	BLD, GOG, and LAS

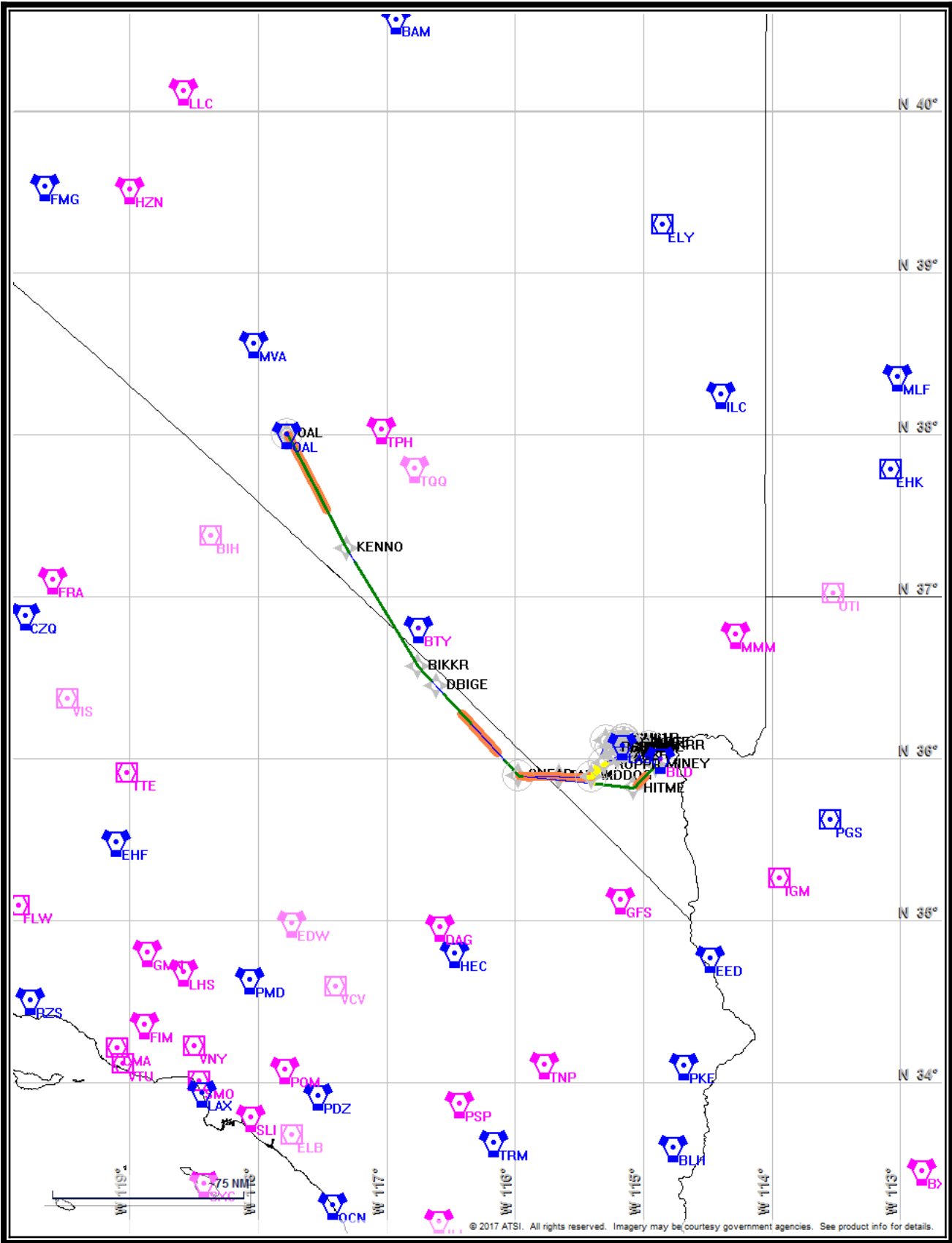
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID RW26L PIRMD 20170517_1140
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:41:03 AM
Input File: [KLAS SHEAD1 SID RW26L PIRMD.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

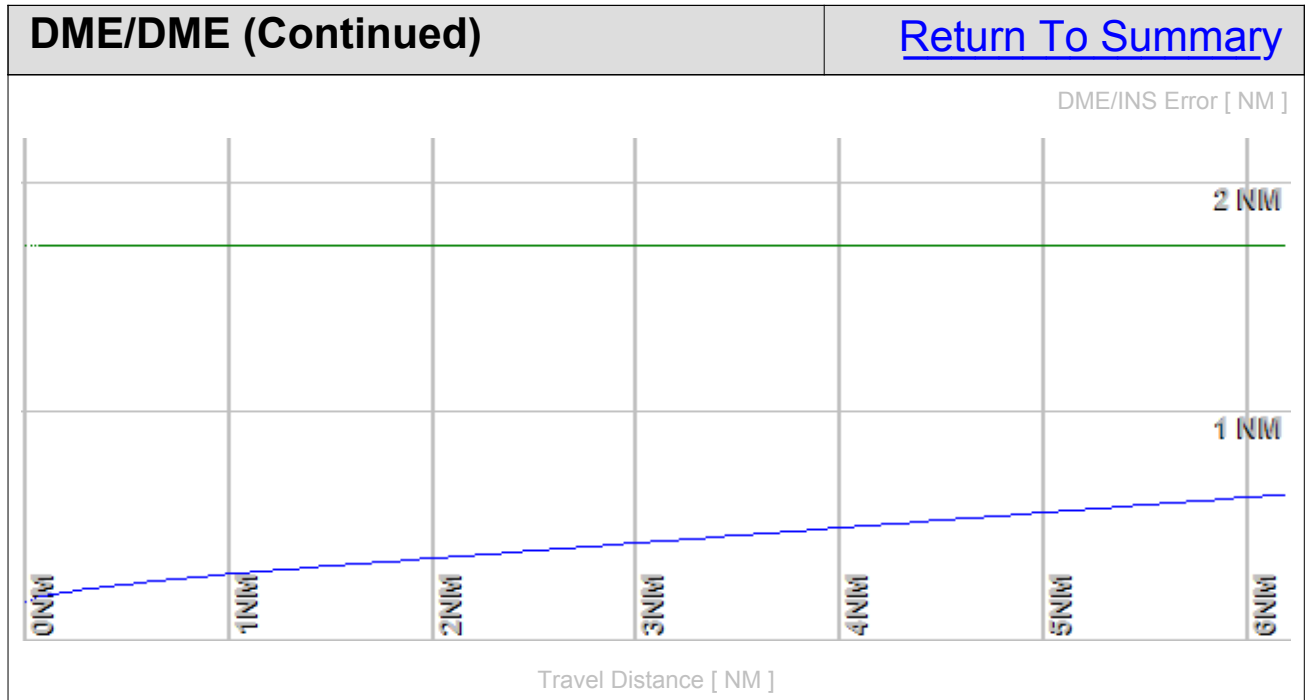
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW26L(...	WP	N 36° 4' 25.17" W 115° 7' 32.97"	2048.5	VNAV	0.0	Fly Over	TF
RW08R(...	WP	N 36° 4' 25.06" W 115° 9' 41.16"	2192.0	VNAV	130.0	Fly Over	VA
GH25L	WP	N 36° 4' 25.01" W 115° 10' 58.87"	2681.0	VNAV	145.0	Fly Over	DF
PIRMD	WP	N 36° 4' 24.61" W 115° 15' 11.00"	2800.0	VNAV	180.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 470.0 ft/NM up to 9000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 470.0 ft/NM up to 9000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Aircraft ALTITUDE at Fly-Over WP PIRMD too high. Flight Track comes into contact with terrain. Minimum AGL along route was -42.17 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

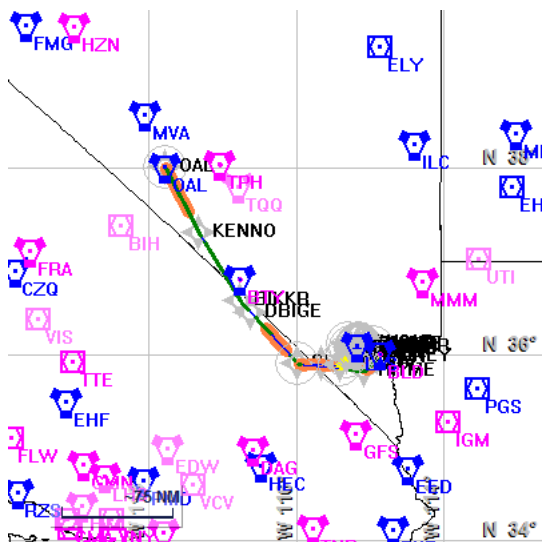
DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
Critical DMEs: Allowed		
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Total Number of DMEs Used: 0		
Maximum DME Error Could not be Derived with < 2 DMEs.		
No Critical DMEs were found.		
Available DMEs: BLD, LAS		



DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 36° 4' 25.17" W 115° 7' 32.97"	N 36° 4' 24.61" W 115° 15' 10.97"	6.2
	VOR: VGT	Available from N 36° 4' 25.17" W 115° 7' 32.97" to N 36° 4' 24.61" W 115° 15' 10.97"	
	VOR: BLD	Available from N 36° 4' 25.17" W 115° 7' 32.97" to N 36° 4' 24.61" W 115° 15' 10.97"	
	VOR: LAS	Available from N 36° 4' 25.17" W 115° 7' 32.97" to N 36° 4' 24.61" W 115° 15' 10.97"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW26L(AER)	RW08R(DER)	
RW08R(DER)	GH25L	
GH25L	PIRMD	BLD and LAS

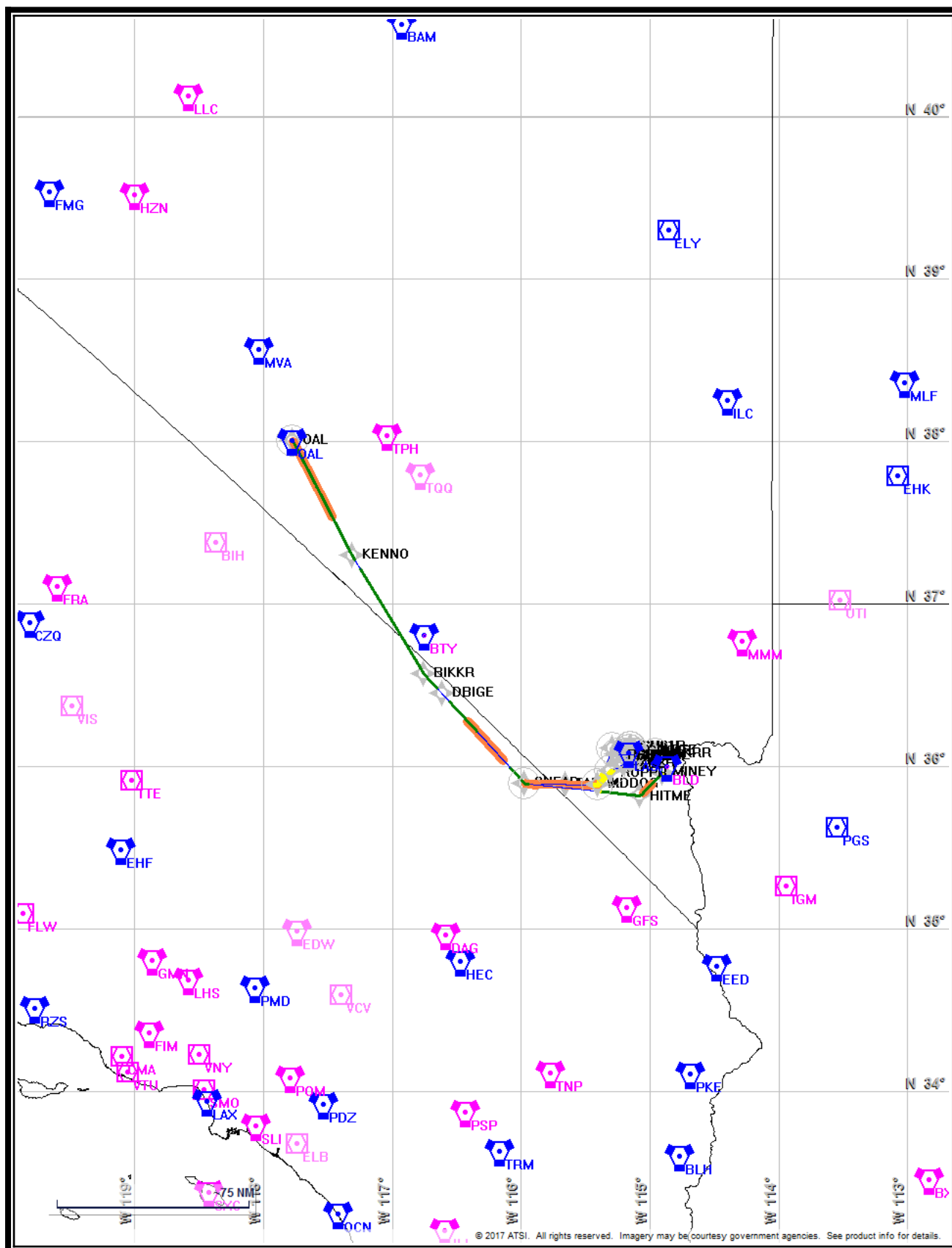
User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Not Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		



Name: Jeanette Roller
Project Name: KLAS
Output File: KLAS SHEAD1 SID
RW26R RBELL
20170517_1141
Procedure Name: SHEAD1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 5/17/2017 11:42:04 AM
Input File: [KLAS SHEAD1 SID
RW26R RBELL.txt](#)
Databases: AIRNAV Date: 4/30/2017
CIFP Date: 8/18/2016
DTED® (MAX) Date: 2002

Results Summary:

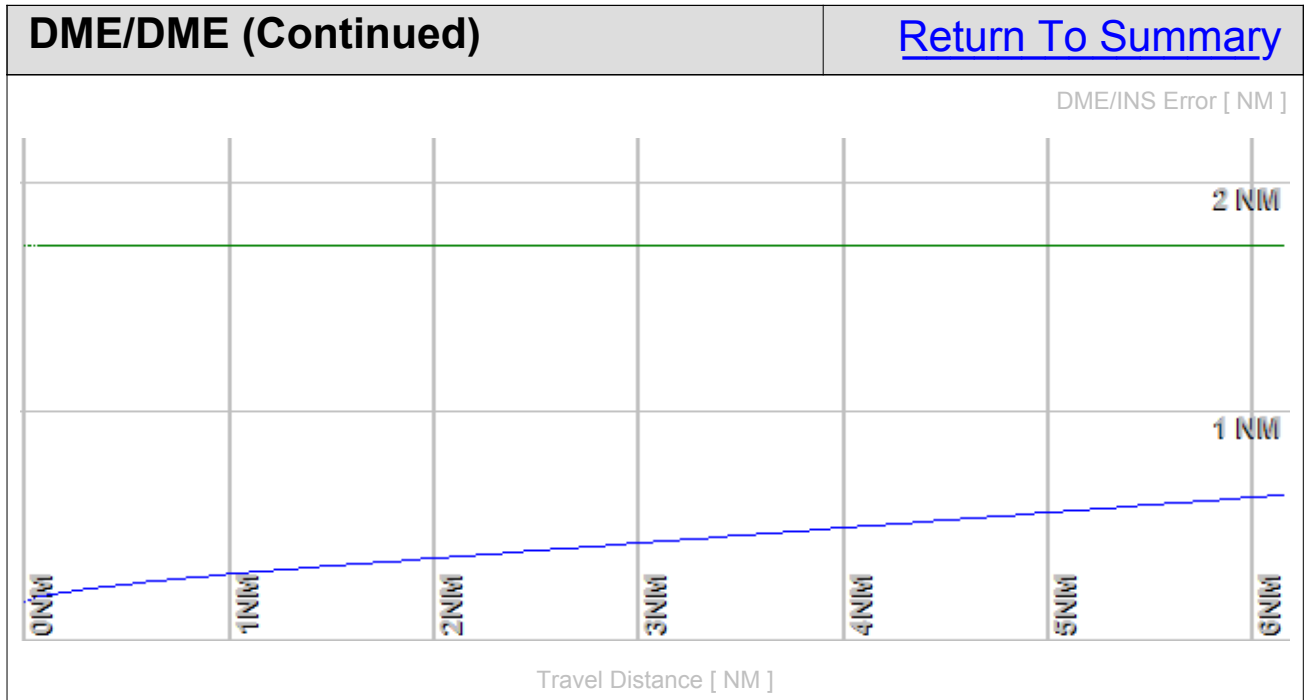
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW26R(...	WP	N 36° 4' 35.06" W 115° 7' 32.94"	2032.9	VNAV	0.0	Fly Over	TF
RW08L(...	WP	N 36° 4' 34.95" W 115° 9' 46.64"	2214.4	VNAV	130.0	Fly Over	VA
GH26R	WP	N 36° 4' 34.87" W 115° 11' 27.08"	2681.0	VNAV	145.0	Fly Over	DF
RBELL	WP	N 36° 4' 34.51" W 115° 15' 8.75"	2800.0	VNAV	180.0	Fly Over	TF
Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 470.0 ft/NM up to 9000.0 ft MSL							

Flyability		Return To Summary
Settings:	Flight Type: Runway Departure Selected Airport: KLAS Aircraft Category: Cat D Climb Gradient: Table: 500.0 ft/NM up to 2681.0 ft MSL 470.0 ft/NM up to 9000.0 ft MSL Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 11000.0 ft 240.0 Kts up to 18000.0 ft 260.0 Kts up to 24000.0 ft 340.0 Kts up to 99900.0 ft Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Aircraft ALTITUDE at Fly-Over WP RBELL too high. Flight Track comes into contact with terrain. Minimum AGL along route was -24.19 Ft. Flight Track contacted terrain (DTED 0 MAX) between AER and DER or within 2/3 NM of DER.	

DME/DME		Return To Summary
Settings:	RNP: 2.0	
	Flight Mode: Manual	
	Line of Sight (DTED Level 0 Max): Evaluated	
	DME Restrictions: Evaluated	
	Inertial Drift: Enabled	
	Initial Drift: 0.165 NM	
	INS Drift Rate: 8.000 NM/Hour	
	Range Mode: OSV	
	Co-Frequencies: Evaluated	
	RNP Edges: Evaluated	
	Min DME Range: 3.0 NM	
	Allowed Gap Length: 4.0 NM	
	DME Types: VOR/DME, VORTAC, Standalone, and User	
	DME Include Angles: 30 to 150	
	Critical DMEs: Allowed	
DoD Facilities: Not included		
Foreign Facilities: Not included		
Low DMEs: Included		
Terminal DMEs: Included		
Total Number of DMEs Used: 0		
Maximum DME Error Could not be Derived with < 2 DMEs.		
No Critical DMEs were found.		
Available DMEs: BLD, LAS		



DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 36° 4' 35.06" W 115° 7' 32.94"	N 36° 4' 34.51" W 115° 15' 8.48"	6.2
	VOR: VGT	Available from N 36° 4' 35.06" W 115° 7' 32.94" to N 36° 4' 34.51" W 115° 15' 8.48"	
	VOR: BLD	Available from N 36° 4' 35.06" W 115° 7' 32.94" to N 36° 4' 34.51" W 115° 15' 8.48"	
	VOR: LAS	Available from N 36° 4' 35.06" W 115° 7' 32.94" to N 36° 4' 34.51" W 115° 15' 8.48"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
RW26R(AER)	RW08L(DER)	
RW08L(DER)	GH26R	
GH26R	RBELL	BLD and LAS

User Data					Return To Summary		
User Data Files							
#	File Name						
1	UserDMEs_KLAS SHEAD1 SID RW01L OAL 20170517_1012.udt						
2	UserDMEs_KOAK SHARR1 STAR BIFFY RPARK 20170411_0931.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	BTY	N 36° 48' 2.15" W 116° 44' 51.51" 16 E	H	2927.7	114.70	BTY	Not Used
Restriction:		Bearing [True]: 321.0° to 341.0° Bearing [Mag]: 305.0° to 325.0°			Distance: Beyond 28.0 NM Altitude: Below 9000.0 ft		
Restriction:		Bearing [True]: 281.0° to 321.0° Bearing [Mag]: 265.0° to 305.0°			Distance: Beyond 30.0 NM Altitude: Below 10200.0 ft		
Restriction:		Bearing [True]: 211.0° to 226.0° Bearing [Mag]: 195.0° to 210.0°			Distance: Beyond 33.0 NM Altitude: Below 10500.0 ft		
Restriction:		Bearing [True]: 341.0° to 105.0° Bearing [Mag]: 325.0° to 89.0°			Distance: Beyond 9.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 16.0° to 76.0° Bearing [Mag]: 360.0° to 60.0°			Distance: Beyond 12.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 140.0° to 150.0° Bearing [Mag]: 124.0° to 134.0°			Arc Distance: Out to 70.0 NM Altitude: 13000.0 to 18000.0 ft		
2	TPH	N 38° 1' 50.32" W 117° 2' 0.63" 17 E	L	5344.4	117.20	TPH	Not Used
Restriction:		Bearing [True]: 257.0° to 277.0° Bearing [Mag]: 240.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 10600.0 ft		
Restriction:		Bearing [True]: 287.0° to 332.0° Bearing [Mag]: 270.0° to 315.0°			Distance: Beyond 20.0 NM Altitude: Below 8600.0 ft		
Restriction:		Bearing [True]: 17.0° to 32.0° Bearing [Mag]: 360.0° to 15.0°			Distance: Beyond 30.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 32.0° to 67.0° Bearing [Mag]: 15.0° to 50.0°			Distance: Beyond 35.0 NM Altitude: Below 10800.0 ft		
Restriction:		Bearing [True]: 67.0° to 77.0° Bearing [Mag]: 50.0° to 60.0°			Distance: Beyond 30.0 NM Altitude: Below 9500.0 ft		
ESV:		Bearing [True]: 160.0° to 195.0° Bearing [Mag]: 143.0° to 178.0°			Arc Distance: Out to 90.0 NM Altitude: 17000.0 to 45000.0 ft		
ESV:		Bearing [True]: 195.0° to 270.0° Bearing [Mag]: 178.0° to 253.0°			Arc Distance: Out to 50.0 NM Altitude: 18000.0 to 45000.0 ft		
ESV:		Bearing [True]: 216.0° to 236.0° Bearing [Mag]: 199.0° to 219.0°			Arc Distance: Out to 40.0 NM Altitude: 23000.0 to 45000.0 ft		
3	BLD	N 35° 59' 44.84" W 114° 51' 48.88" 15 E	H	3641.9	116.70	BLD	Not Used
ESV:		Bearing [True]: 260.0° to 270.0° Bearing [Mag]: 245.0° to 255.0°			Arc Distance: Out to 60.0 NM Altitude: 13000.0 to 18000.0 ft		
ESV:		Bearing [True]: 271.0° to 281.0° Bearing [Mag]: 256.0° to 266.0°			Arc Distance: Out to 63.0 NM Altitude: 14000.0 to 18200.0 ft		