Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: SID	Date Open: 02/28/2012	Task #: 2006071410720503011	Request #: 20060714107205
Procedure: SID ROTRY (RNAV) ONE ST. LOUIS MO KSTL		Airport ID: KSTL	Airport: LAMBERT-ST LOUIS INTL		Reimbursable #:
City: ST LOUIS	ST: MO	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type:		Specialist: HERMAN ROGERS		

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/29/2012	06/12/2012	JILL OLSON	
QA:	06/12/2012	06/12/2012	STEVEN SZUKALA	
Liaison:	06/12/2012		MARY MCDONALD	DME/DME; REPLACEMENT - 15B, FIG.

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

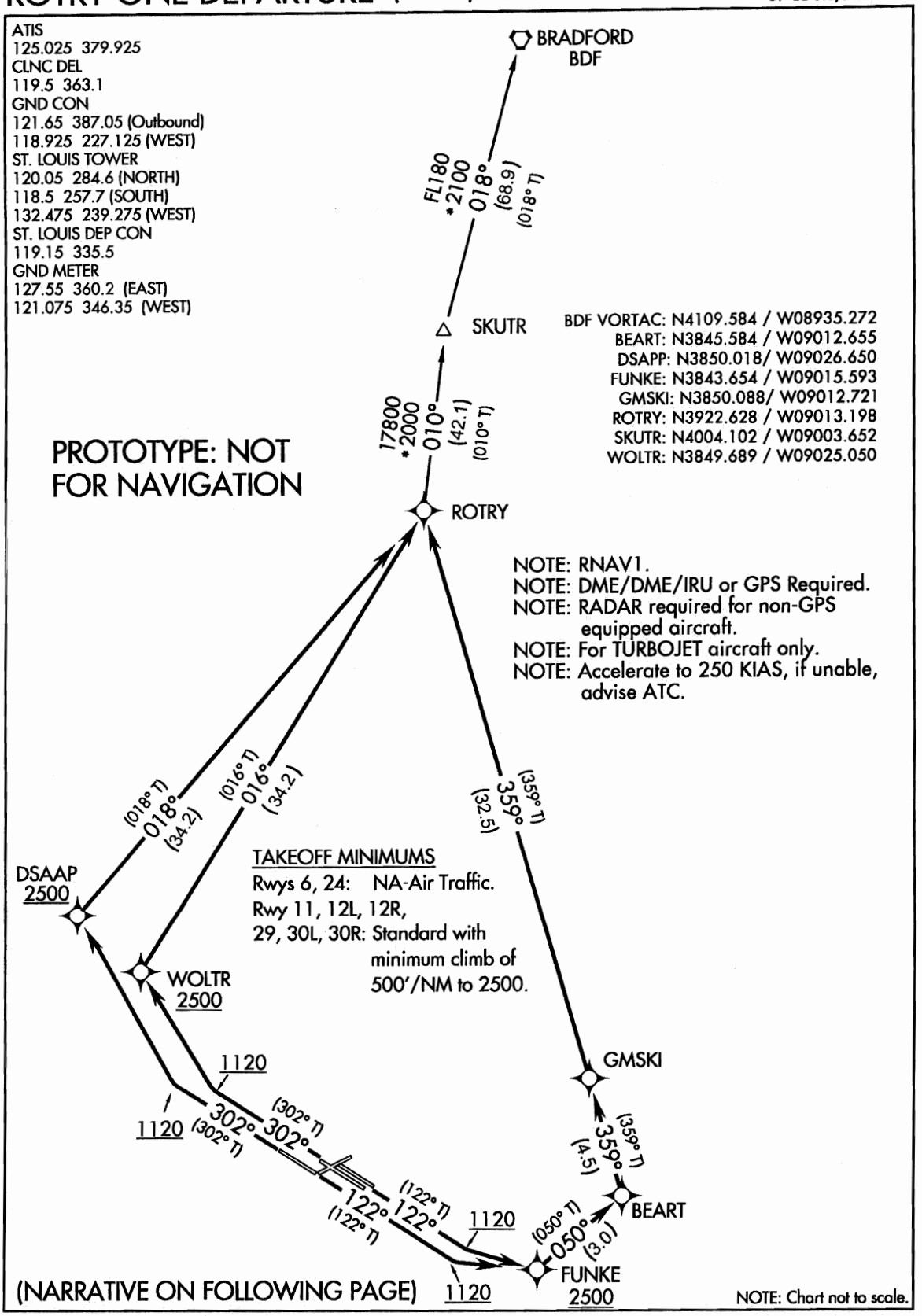
ST LOUIS, MO LAMBERT-ST LOUIS INTL (KSTL) ROTRY ONE (RNAV) (SID) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: ESV REPORTS; 8260-15B; 8260-15C; 8260-2(S): BEART, ORIG; DSAPP, ORIG; FUNKE, ORIG; GMSKI, ORIG; ROTRY, ORIG; SKUTR-INT, REV 4; WOLTR, ORIG; (INFO ONLY) BRADFORD (BDF) VTAC, REV 18.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.0414
REPLACEMENT PACKAGE TO CORRECTED MEA'S TO MATCH DME/DME PRORUNS. SEE ATTACHED LIST FOR ALL AFFECTED PROCEDURES.

ROTRY ONE DEPARTURE (RNAV)

ST LOUIS/LAMBERT-ST LOUIS INTL (STL)
ST LOUIS, MISSOURI



DEPARTURE ROUTE DESCRIPTION

TAKEOFF RWY 11: Climb heading 122° to 1120, then direct FUNKE cross FUNKE at or above 2500, then on depicted route to ROTRY. Thence . . . .
TAKEOFF RWYS 12L, 12R: Climb heading 122° to 1120, then direct FUNKE cross FUNKE at or above 2500, then on depicted route to ROTRY. Thence . . . .
TAKEOFF RWY 29: Climb heading 302° to 1120, then direct DISAPP cross DISAPP at or above 2500, then on depicted route to ROTRY. Thence . . . .
TAKEOFF RWYS 30L: Climb heading 302° to 1120, then direct WOLTR cross WOLTR at or above 2500, then on depicted route to ROTRY. Thence . . . .
TAKEOFF RWYS 30R: Climb heading 302° to 1120, then direct WOLTR cross WOLTR at or above 2500, then on depicted route to ROTRY. Thence . . . .

. . . . (transition). Maintain 5000. Expect filed altitude 10 minutes after departure.

BRADFORD TRANSITION (ROTRY1.BDF):

TAKEOFF OBSTACLE NOTE:
Rwy 11: Multiple signs, trees, towers, and buildings beginning 2348′ from DER, 205′ left of centerline, up to 219′ AGL/774′ MSL.
Multiple signs, trees, towers, and buildings beginning 2363′ from DER, 489′ right of centerline, up to 114′ AGL/694′ MSL.
Rwy 12L: Tree 1331′ from DER, 667′ right of centerline, 75′ AGL/654′ MSL.
Rwy 12R: Traffic signal and sign beginning 1413′ from DER, 702′ right of centerline, up to 17′ AGL/672′ MSL.
Tree 1930′ from DER, 372′ left of centerline, 67′ AGL/636′ MSL.
Rwy 30L: Multiple trees, poles, and roads beginning 906′ from DER, 600′ left of centerline, up to 84′ AGL/663′ MSL.
OL on LOC 614′ from DER, on centerline, 9′ AGL/558′ MSL.
Multiple trees, poles, roads, terrain, and buildings beginning 283′ from DER, 185′ right of centerline, up to 65′ AGL/684′ MSL.
Rwy 30R: OL on GS 1895′ from DER, 899′ left of centerline, 28′ AGL/587′ MSL.
Multiple OL on buildings, trees, and electrical system beginning 2039′ from DER, 387′ right of centerline, up to 81′ AGL/670′ MSL.

Prototype: Not For Navigation

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ST LOUIS	City : SAINT LOUIS	Ident : STL	State : MO
Type/Class : TACR	Frequency : M1208	Reference No : 10061234	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 704271-033	9	21	70	100	170

Requirement: ESTABLISH AN ESV FOR THE STL ROTRY SID

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 06/03/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-033	9	21	70	100	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE STL ROTRY SIDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: BOWERS MIKE	Routing Symbol:	Date: 06/03/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-033	9	21	70	100	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE STL ROTRY SIDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/03/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 704271-033	9	21				

Requirement/Remarks.

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : QUINCY	City : QUINCY	Ident : UIN	State : IL
Type/Class : TACR	Frequency : M1170	Reference No.: 10061233	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 861428-022	75	102	60	100	170

Requirement. ESTABLISH AN ESV FOR THE STL ROTRY SID

Signature: Mallett Gary	Routing Symbol: AJV-C2	Date: 06/03/2010

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861428-022	75	102	60	100	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE STL ROTRY SIDApproved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: NASSR NASHAAT	Routing Symbol:	Date: 06/03/2010

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861428-022	75	102	60	100	170	APPROVE

Requirement/Remarks: ESTABLISH AN ESV FOR THE STL ROTRY SIDApproved. Pend Flight Chk/Inspect @ the req. dist. and MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 06/28/2010

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 861428-022	75	102				

Requirement/Remarks:

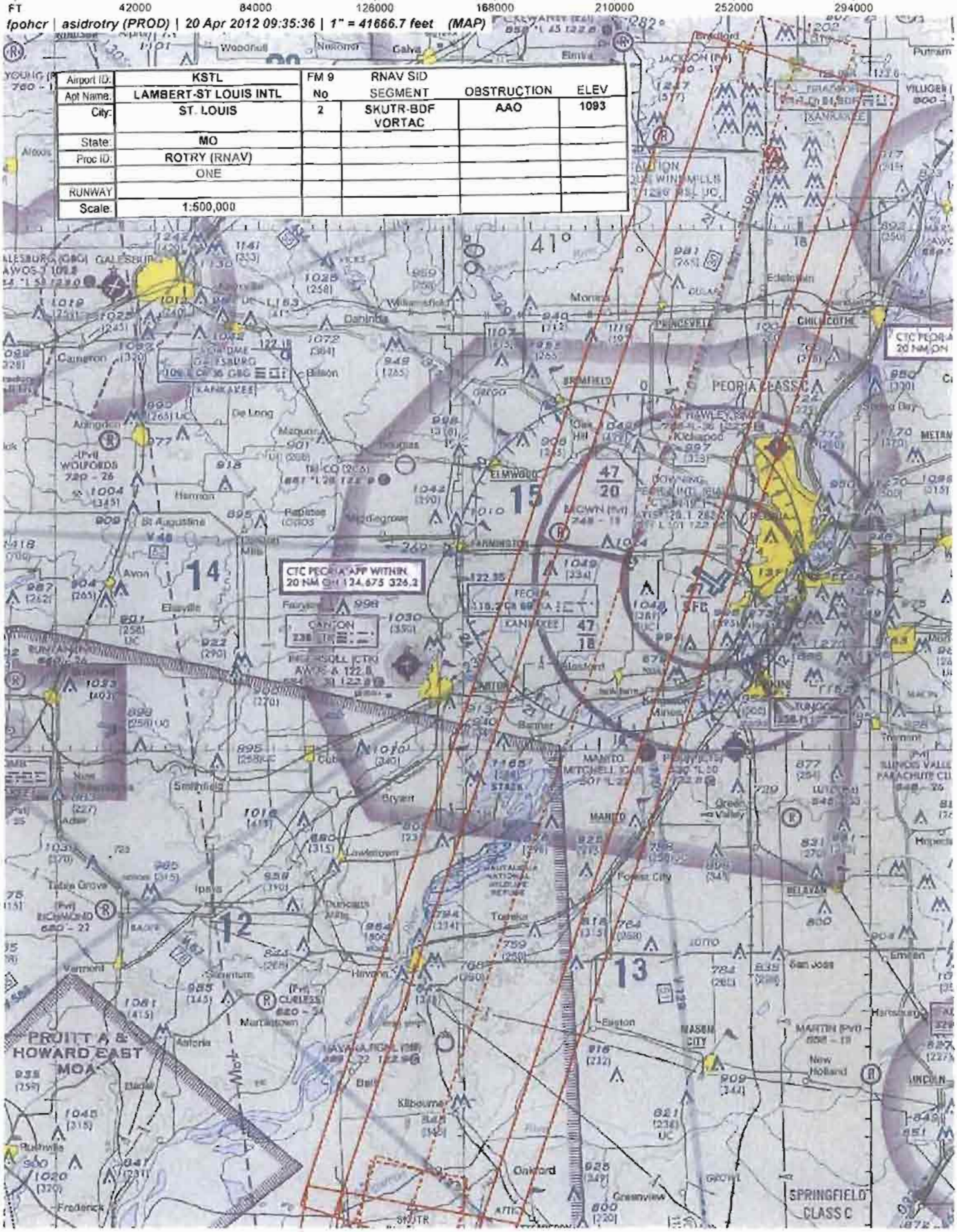
Signature:	Routing Symbol:	Date:

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpohcr | asidrotry (PROD) | 20 Apr 2012 09:35:36 | 1" = 41666.7 feet (MAP)

Airport ID:	KSTL	FM 9	RNAV SID		
Apt Name:	LAMBERT-ST LOUIS INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	ST. LOUIS	2	SKUTR-BDF VORTAC	AAO	1093
State:	MO				
Proc ID:	ROTRY (RNAV)				
	ONE				
RUNWAY					
Scale:	1:500,000				



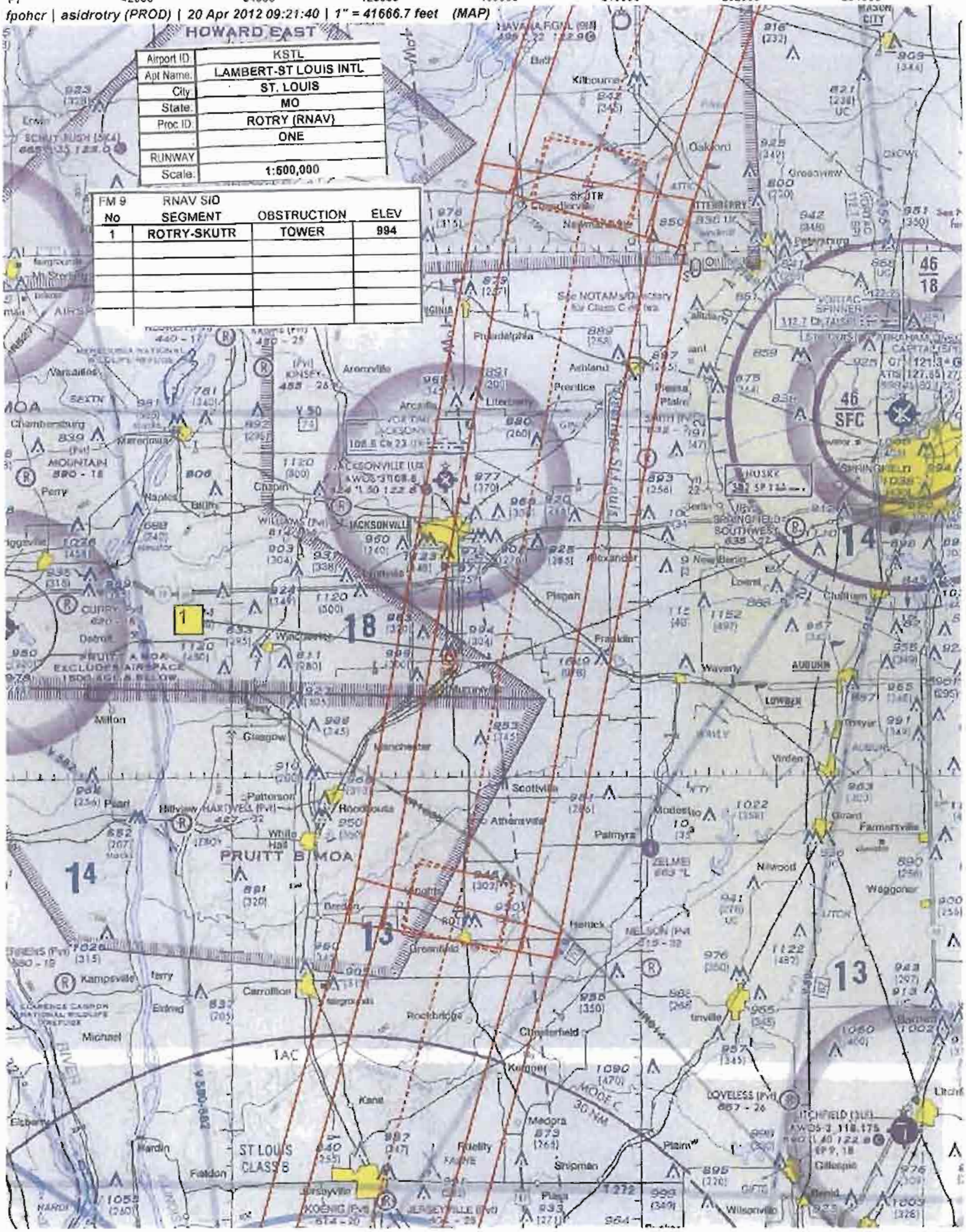
NM 7 14 21 28 35 42 49

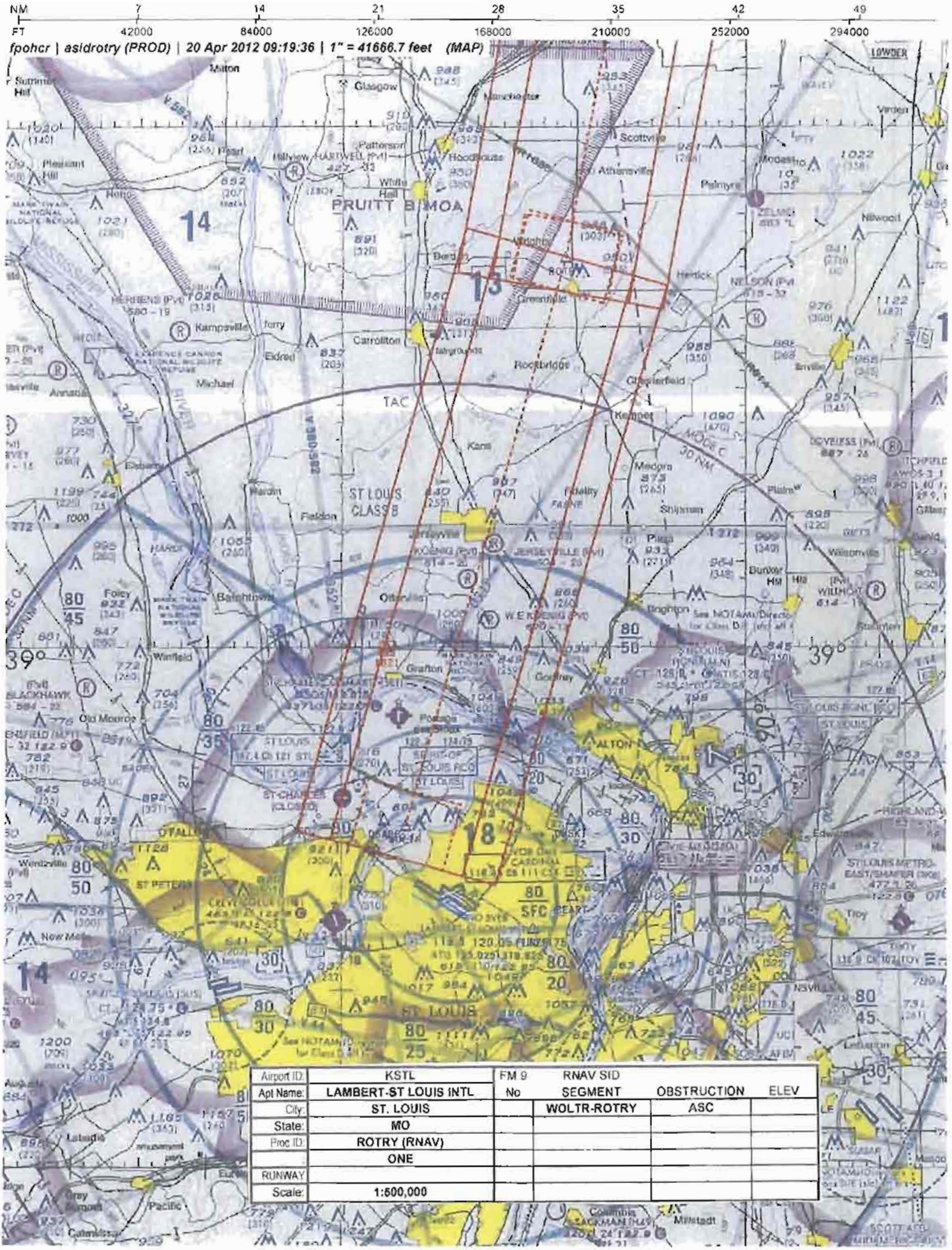
FT 42000 84000 126000 168000 210000 252000 294000

fpohcr | asidrotry (PROD) | 20 Apr 2012 09:21:40 | 1" = 41666.7 feet (MAP)

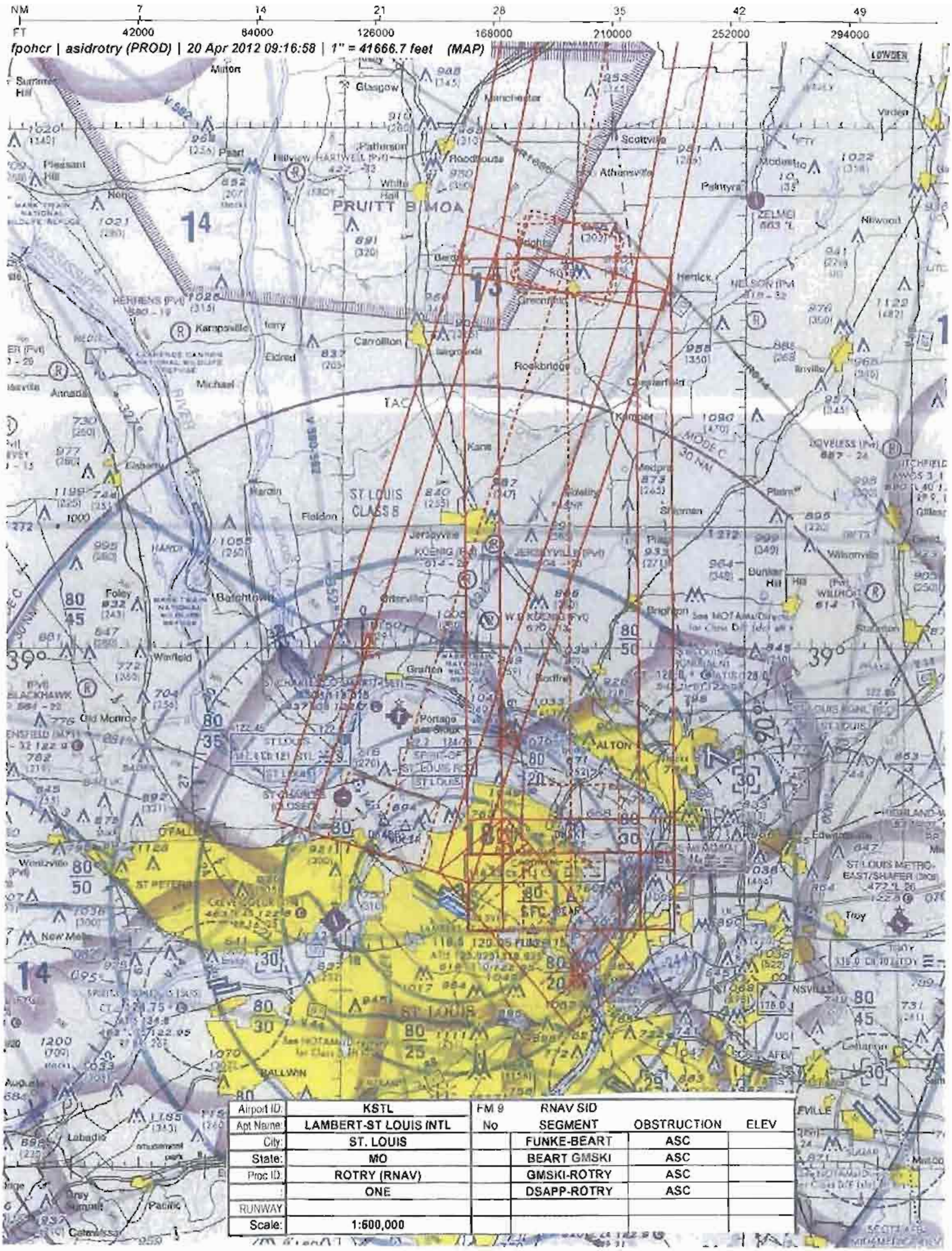
Airport ID:	KSTL
Apt Name:	LAMBERT-ST LOUIS INTL
City:	ST. LOUIS
State:	MO
Proc ID:	ROTRY (RNAV)
:	ONE
RUNWAY	
Scale:	1:600,000

FM 9 No	RNAV SID SEGMENT	OBSTRUCTION	ELEV
1	ROTRY-SKUTR	TOWER	994




NM 7 14 21 28 35 42 49
FT 42000 84000 126000 168000 210000 252000 294000
fpohcr | asidrotry (PROD) | 20 Apr 2012 09:19:36 | 1" = 41666.7 feet (MAP)
PRUITT B MOA
ST LOUIS CLASS B
TAC
ST LOUIS
Airport ID: KSTL
Apt Name: LAMBERT-ST LOUIS INTL
City: ST. LOUIS
State: MO
Proc ID: ROTRY (RNAV)
ONE
RUNWAY
Scale: 1:500,000
FM 9 No
RNAV SID SEGMENT
WOLTR-ROTRY
OBSTRUCTION
ASC
ELEV

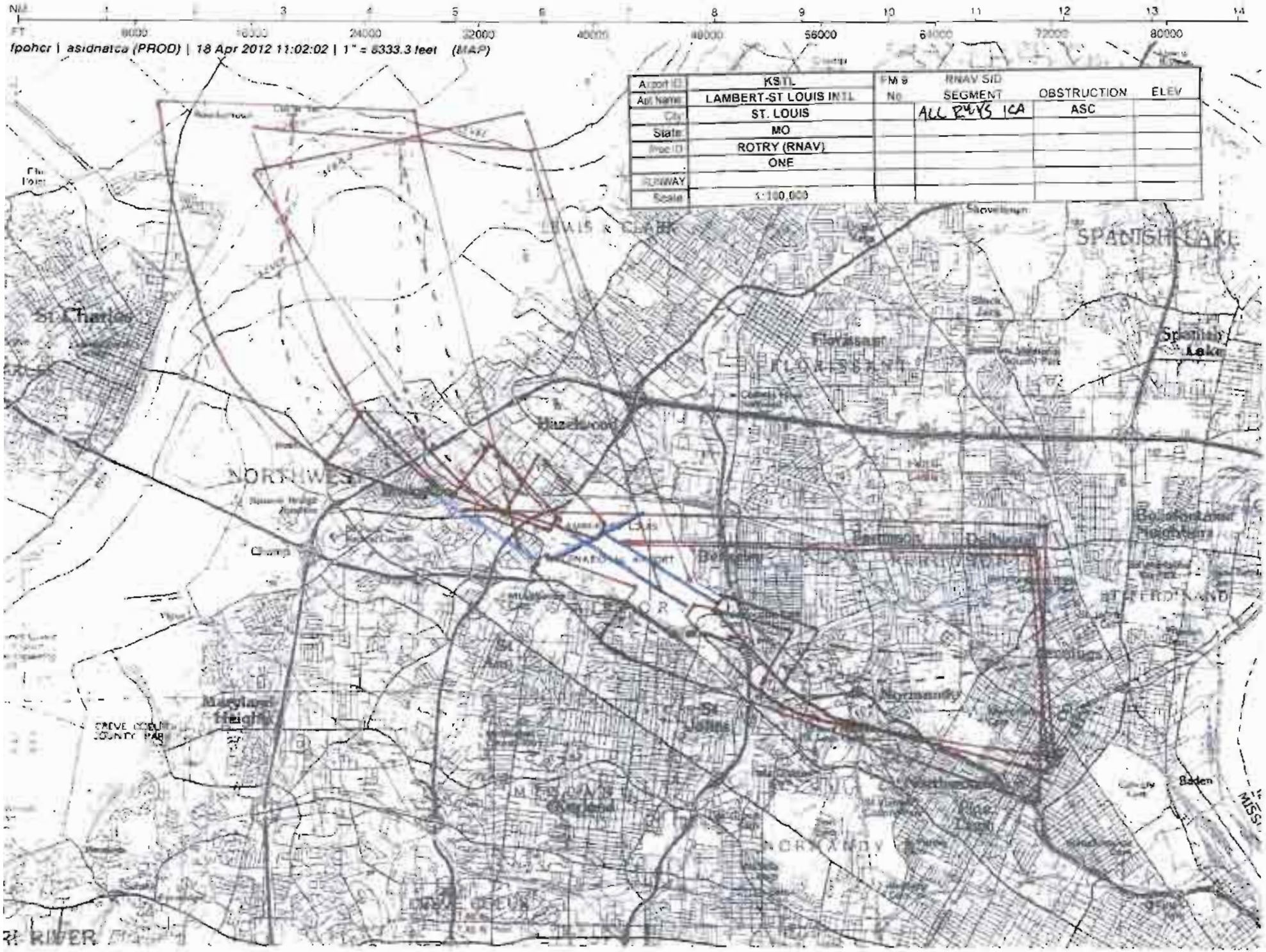
fpohcr | asidrotry (PROD) | 20 Apr 2012 09:16:58 | 1" = 41666.7 feet (MAP)



Airport ID:	KSTL	FM 9	RNAV SID		
Apt Name:	LAMBERT-ST LOUIS INTL	No	SEGMENT	OBSTRUCTION	ELEV
City:	ST. LOUIS		FUNKE-BEART	ASC	
State:	MO		BEART GMSKI	ASC	
Proc ID:	ROTRY (RNAV)		GMSKI-ROTRY	ASC	
	ONE		DSAPP-ROTRY	ASC	
RUNWAY					
Scale:	1:600,000				

fpohcr | asidnatca (PROD) | 18 Apr 2012 11:02:02 | 1" = 8333.3 feet (MAP)

Airport ID	KSTL	FM 8	RNAV SID		
Apt name	LAMBERT-ST LOUIS INTL	No	SEGMENT	OBSTRUCTION	ELEV
City	ST. LOUIS		ALL RWYS ICA	ASC	
State	MO				
Proc ID	ROTRY (RNAV)				
	ONE				
RUNWAY					
Scale	1:100,000				



U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 11: CLIMB HEADING 122.17 TO 1120 THEN LEFT TURN DIRECT FUNKE, CROSS FUNKE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO ROTRY. THENCE...
TAKEOFF RWY 12L, 12R: CLIMB HEADING 122.19 TO 1120 THEN LEFT TURN DIRECT FUNKE, CROSS FUNKE AT OR ABOVE 2500, THEN ON DEPICTED ROUTE TO ROTRY. THENCE...
TAKEOFF RWY 29: CLIMB HEADING 302.18 TO 1120 THEN RIGHT TURN DIRECT DSAPP, CROSS DSAPP AT OR ABOVE 2500. THEN ON DEPICTED ROUTE TO ROTRY. THENCE...
TAKEOFF RWY 30L: CLIMB HEADING 302.20 TO 1120 THEN RIGHT TURN DIRECT WOLTR, CROSS WOLTR AT OR ABOVE 2500 THEN ON DEPICTED ROUTE TO ROTRY. THENCE...
TAKEOFF RWY 30R: CLIMB HEADING 302.21 TO 1120 THEN RIGHT TURN DIRECT WOLTR, CROSS WOLTR AT OR ABOVE 2500 THEN ON DEPICTED ROUTE TO ROTRY. THENCE...
...(TRANSITION). MAINTAIN 5000, EXPECT FILED ALTITUDE TEN MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
BRADFORD	ROTRY1.BDF	ROTRY	SKUTR	TRACK 010.03	42.09	17800	2000	
		SKUTR	BDF VORTAC	TRACK 018.12	68.92	FL180	2100	

QUALITY CHECKED 1

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RNAV 1.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.
NOTE: FOR USE BY TURBOJET AIRCRAFT ONLY.
NOTE: ACCELERATE TO 250 KIAS; IF UNABLE, ADVISE ATC.

TAKEOFF MINIMUMS:
RWY 6, 24: NA-AIR TRAFFIC.
RWY 11,12L,12R, 29, 30L, 30R: STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 2500.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 11, MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2348 FT FROM DER, 205 FT LEFT OF CENTERLINE, UP TO 219 FT AGL/774 FT MSL. MULTIPLE SIGNS, TREES, TOWERS, AND BLDGS BEGINNING 2363 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 114 FT AGL/694 FT MSL.

NOTE: RWY 12L, TREE 1331 FT FROM DER, 667 FT RIGHT OF CENTERLINE, 75 FT AGL/654 FT MSL.

NOTE: RWY 12R, TRAFFIC SIGNAL AND SIGN BEGINNING 1413 FT FROM DER, 702 FT RIGHT OF CENTERLINE, UP TO 17 FT AGL/672 FT MSL. TREE 1930 FT FROM DER, 372 FT LEFT OF CENTERLINE, 67 FT AGL/636 FT MSL.

NOTE: RWY 30L, MULTIPLE TREES, POLES, AND ROADS BEGINNING 906 FT FROM DER, 600 FT LEFT OF CENTERLINE, UP TO 84 FT AGL/663 FT MSL. OL ON LOC 614 FT FROM DER, ON CENTERLINE, 9 FT AGL/558 FT MSL. MULTIPLE TREES, POLES, ROADS, TERRAIN, AND BLDGS BEGINNING 283 FT FROM DER, 185 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/684 FT MSL.

NOTE: RWY 30R, OL ON GS 1895 FT FROM DER, 899 FT LEFT OF CENTERLINE, 28 FT AGL/587 FT MSL. MULTIPLE OL ON BLDGS, TREES, AND ELECTRICAL SYSTEM BEGINNING 2039 FT FROM DER, 387 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/670 FT MSL.

CONTROLLING OBSTACLES:

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

'EFERENCE MAGVAR: KSTL 00 EPOCH YEAR: 2000.
'ME/DME ASSESSMENT: SAT (RNP 2.0)

QUALITY CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

AIRPORTS SERVED:

LAMBERT-ST LOUIS INTL ST LOUIS, MO

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, GND METER, DEP CON, TOWER

FIXES AND/OR NAVAIDS:

REMARKS:

QUALITY CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statue miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:
ROUTINE

EVELOPED BY:
HERMAN ROGERS AJV-353 04/13/2012

PROVED BY:
LARRY STROUT AJV-353

OORDINATED WITH:
TA, ALPA, APA, AOPA, NBAA, STL DEP CON, ZKC

ANGES:

ORIGINAL.

EASONS:

PER FPT REQUEST.

06/21/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/13/2012.
CHANGED MEA ALTITUDE FROM 9400 TO 17800 FOR SEGMENT ROTRY TO SKUTR.

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW11 (AER)	384535.83N/0902435.55W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.17	-			CG 500 FT/MIN TO 2500
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		LEFT TURN
BEART	384535.04N/0901239.30W	Y	FB	TF	050.00	3.00			
GMSKI	385005.28N/0901243.23W	Y	FB	TF	359.35	4.50			
ROTRY	392237.69N/0901311.88W	Y	FB	TF	359.35	32.51			
RW12L (AER)	384506.41N/0902158.66W	N	-	-	-	-			
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/MIN TO 2500
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		LEFT TURN
BEART	384535.04N/0901239.30W	Y	FB	TF	050.00	3.00			
GMSKI	385005.28N/0901243.23W	Y	FB	TF	359.35	4.50			
ROTRY	392237.69N/0901311.88W	Y	FB	TF	359.35	32.51			
RW12R (AER)*	384511.59N/0902239.98W*	N	-	-	-	-			*DISPL THLD (467)
1120 MSL	-	-	-	VA	122.19	-			CG 500 FT/MIN TO 2500
FUNKE	384339.26N/0901535.58W	Y	FB	DF	-	-	AT/ABOVE 2500		LEFT TURN
BEART	384535.04N/0901239.30W	Y	FB	TF	050.00	3.00			
GMSKI	385005.28N/0901243.23W	Y	FB	TF	359.35	4.50			
ROTRY	392237.69N/0901311.88W	Y	FB	TF	359.35	32.51			
RW29 (AER)	384448.46N/0902259.39W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.18	-			CG 500 FT/MIN TO 2500
DSAPP	385001.06N/0902638.98W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ROTRY	392237.69N/0901311.88W	Y	FB	TF	017.75	34.22			
RW30L (AER)*	384417.08N/0902049.42W*	N	-	-	-	-			*DISPL THLD (201)
1120 MSL	-	-	-	VA	302.20				CG 500 FT/MIN TO 2500
WOLTR	384941.32N/0902503.02W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ROTRY	392237.69N/0901311.88W	Y	FB	TF	015.60	34.18			

QUALITY 3 CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY	ONE	ROTRY1.ROTRY	NONE		

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW30R (AER)	384418.99N/0902022.51W	N	-	-	-	-			
1120 MSL	-	-	-	VA	302.21	-			CG 500 FT/MIN TO 2500
WOLTR	384941.32N/0902503.02W	Y	FB	DF	-	-	AT/ABOVE 2500		RIGHT TURN
ROTRY	392237.69N/0901311.88W	Y	FB	TF	015.60	34.18			
ROTRY	392237.69N/0901311.88W	Y	-	IF	-	-			ROTRY1.BDF
SKUTR	400406.09N/0900339.12W	Y	FB	TF	010.03	42.09			
BDF VORTAC	410935.03N/0893516.34W	Y	FB	TF	018.12	68.92			

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY (RNAV)	ONE	ROTRY1.ROTRY	NONE		

ARINC PACKET - 424-18 - SID

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BDF   K5011470VTH  N41093503W089351634    N41093503W089351634E0000008102     NARBRADFORD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BEART K30    W     N38453504W090123930                      W0011     NAR           BEART
        SUSAEAENRT   DSAPP K30    W     N38500106W090263898                      W0009     NAR           DSAPP
        SUSAEAENRT   FUNKE K30    W     N38433926W090153558                      W0011     NAR           FUNKE
        SUSAEAENRT   GMSKI K30    W     N38500528W090124323                      W0011     NAR           GMSKI
        SUSAEAENRT   ROTRY K30    W     N39223769W090131188                      W0012     NAR           ROTRY
        SUSAEAENRT   SKUTR K50    C   B N40040609W090033912                      W0014     NAR           SKUTR
        SUSAEAENRT   WOLTR K30    W     N38494132W090250302                      W0010     NAR           WOLTR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3ASTL     0     110YHN38445531W090221210E000000618         1800018000C    MNAR    LAMBERT-ST LOUIS INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3DROTRY14RW11  010         0        VA                       1222        + 01120     18000
        SUSAP KSTLK3DROTRY14RW11  020FUNKEK3EA0E    010DF                                  + 02500
        SUSAP KSTLK3DROTRY14RW11  030BEARTK3EA0E    010TF                       05000030
        SUSAP KSTLK3DROTRY14RW11  040GMSKIK3EA0E    010TF                       35940045
        SUSAP KSTLK3DROTRY14RW11  050ROTRYK3EA0EE   010TF                       35940325
        SUSAP KSTLK3DROTRY14RW12B 010         0        VA                       1222        + 01120     18000
        SUSAP KSTLK3DROTRY14RW12B 020FUNKEK3EA0E    010DF                                  + 02500
        SUSAP KSTLK3DROTRY14RW12B 030BEARTK3EA0E    010TF                       05000030
        SUSAP KSTLK3DROTRY14RW12B 040GMSKIK3EA0E    010TF                       35940045
        SUSAP KSTLK3DROTRY14RW12B 050ROTRYK3EA0EE   010TF                       35940325
        SUSAP KSTLK3DROTRY14RW29  010         0        VA                       3022        + 01120     18000
        SUSAP KSTLK3DROTRY14RW29  020DSAPPK3EA0E    010DF                                  + 02500
        SUSAP KSTLK3DROTRY14RW29  030ROTRYK3EA0EE   010TF                       01780342
        SUSAP KSTLK3DROTRY14RW30B 010         0        VA                       3022        + 01120     18000
        SUSAP KSTLK3DROTRY14RW30B 020WOLTRK3EA0E    010DF                                  + 02500
        SUSAP KSTLK3DROTRY14RW30B 030ROTRYK3EA0EE   010TF                       01560342
        SUSAP KSTLK3DROTRY15      010ROTRYK3EA0E       IF                                             18000
        SUSAP KSTLK3DROTRY15      020SKUTRK5EA0E    010TF                       01000421
        SUSAP KSTLK3DROTRY15      030BDF  K5D 0VE   010TF                       01810689
```

QUALITY CHECKED 1

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY (RNAV)	ONE	ROTRY1.ROTRY	NONE		

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSTLK3GRW11    0090011222 N38453583W090243555-0700    +0157000618000059150IIOGZ3
        SUSAP KSTLK3GRW12L   0090031222 N38450641W090215866+0800    +0129700528000054150IILDZ3
        SUSAP KSTLK3GRW12R   0110191222 N38451159W090223998+0400    +0133200540046754200IILMR1
        SUSAP KSTLK3GRW29    0090013022 N38444846W090225939+0700    +0138100556000056150IIRQN1
        SUSAP KSTLK3GRW30L   0110193022 N38441708W090204942-0400    +0146300583020158200IIBKY1    IRMKL
        SUSAP KSTLK3GRW30R   0090033022 N38441899W090202251-0800    +0152900605000057150IISJW3
```

QUALITY CHECKED 1

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY (RNAV)	ONE	ROTRY1.ROTRY	NONE		

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW11		010		VA		FB		122.2()		AA 01120	
	RW11	FUNKE	020		DF		FB	1.0			AA 02500	
	RW11	BEART	030		TF		FB	1.0	050.0()	003.0		
	RW11	GMSKI	040		TF		FB	1.0	359.4()	004.5		
	RW11	ROTRY	050		TF		FB	1.0	359.4()	032.5		
	RW12B		010		VA		FB		122.2()		AA 01120	
	RW12B	FUNKE	020		DF		FB	1.0			AA 02500	
	RW12B	BEART	030		TF		FB	1.0	050.0()	003.0		
	RW12B	GMSKI	040		TF		FB	1.0	359.4()	004.5		
	RW12B	ROTRY	050		TF		FB	1.0	359.4()	032.5		
	RW29		010		VA		FB		302.2()		AA 01120	
	RW29	DSAPP	020		DF		FB	1.0			AA 02500	
	RW29	ROTRY	030		TF		FB	1.0	017.8()	034.2		
	RW30B		010		VA		FB		302.2()		AA 01120	
	RW30B	WOLTR	020		DF		FB	1.0			AA 02500	
	RW30B	ROTRY	030		TF		FB	1.0	015.6()	034.2		
		ROTRY	010		IF		FB					
		SKUTR	020		TF		FB	1.0	010.0()	042.1		
		BDF	030		TF		FB	1.0	018.1()	068.9		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
BDF	N410935.03	W0893516.34	N4109.584	W08935.272
BEART	N384535.04	W0901239.30	N3845.584	W09012.655
DSAPP	N385001.06	W0902638.98	N3850.018	W09026.650
FUNKE	N384339.26	W0901535.58	N3843.654	W09015.593
GMSKI	N385005.28	W0901243.23	N3850.088	W09012.721
ROTRY	N392237.69	W0901311.88	N3922.628	W09013.198
SKUTR	N400406.09	W0900339.12	N4004.102	W09003.652
WOLTR	N384941.32	W0902503.02	N3849.689	W09025.050
RW11	N384535.83	W0902435.55	N3845.597	W09024.593
RW12L	N384506.41	W0902158.66	N3845.107	W09021.978
RW12R	N384511.59	W0902239.98	N3845.193	W09022.666
RW29	N384448.46	W0902259.39	N3844.808	W09022.990
RW30L	N384417.08	W0902049.42	N3844.285	W09020.824
RW30R	N384418.99	W0902022.51	N3844.317	W09020.375

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW11	00618	59
RW12L	00528	54

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
ROTRY (RNAV)	ONE	ROTRY1.ROTRY	NONE		

RW12R	00540	54
RW29	00556	56
RW30L	00583	58
RW30R	00605	57

QUALITY CONTROL

RADIO FIX AND HOLDING DATA RECORD

NAME: BEART **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384535.04N/0901239.30W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: DSAPP **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385001.06N/0902638.98W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FUNKE **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384339.26N/0901535.58W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GMSKI **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 385005.28N/0901243.23W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROTRY **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 392237.69N/0901311.88W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
08/06/12: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/30/12.
1. CHANGED STATE FROM MO TO IL.

DEVELOPED BY: **DATE:** 04/10/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** 07/30/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: SKUTR **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 400406.09N/0900339.12W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	CARDINAL	CSX	VOR/DME	H	009.94	009.94	80.09	80.09		8000	21000
2	SPINNER	SPI	VORTAC	H	308.91	307.91		22.37		8000	21000
3	BRADFORD	BDF	VORTAC	H	198.43	198.43	68.92	68.92		8000	14500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CSX	VOR/DME	R-010	81	8000	21000
BDF	VORTAC	R-198	69	8000	14500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
CARDINAL (FAC 1) AND SPINNER (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CARDS	1, 2, 3		KALN	ALTON/ST LOUIS	IL (US)
DP	CARDS	1, 2, 3		KBLV	BELLEVILLE	IL (US)
DP	CARDS	1, 2, 3		KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	CARDS	1, 2, 3		KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CARDS	1, 2, 3		KSUS	ST LOUIS	MO (US)

REQUIRED CHARTING: DP, AREA, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED FIX TYPE WP.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOLTR **STATE:** MO **COUNTRY:** US

LATITUDE/LONGITUDE: 384941.32N/0902503.02W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	EEMOS (RNAV)			KSTL	ST LOUIS	MO (US)
DP	JHART (RNAV)			KSTL	ST LOUIS	MO (US)
DP	KSHEE (RNAV)			KSTL	ST LOUIS	MO (US)
DP	NATCA (RNAV)			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	TEDDD (RNAV)			KSTL	ST LOUIS	MO (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVE NELSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY: STL APP CON
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: BRADFORD VORTAC **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 410935.03N/0893516.34W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	BRADFORD	BDF	VORTAC	H							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BDF	VORTAC	R-262	102	13000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	BDF	VORTAC	246.86	066.86	R	1-1 1/2		2600	45000	4	29
2	NW	BDF	VORTAC	313.00	133.00	R	1		2500	6000	4	5
3	W		WP	248.67	068.67	R		9	14000	45000	14	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (17-020039)	410355.47N/0893659.50W	1290	5E
2	200	WINDMILL (17-003456)	411332.13N/0893408.70W	1326	5D
3	265	WINDMILL (17-020039)	410355.47N/0893659.50W	1290	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DES MOINES			KDSM	DES MOINES	IA (US)
DP	CARDS			KALN	ALTON/ST LOUIS	IL (US)
DP	CARDS			KBLV	BELLEVILLE	IL (US)
DP	CARDS			KCPS	CAHOKIA/ST LOUIS	IL (US)
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	MIDWAY			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
DP	WHITEWATER			KCVG	COVINGTON	KY (US)
DP	CARDS			KSTL	ST LOUIS	MO (US)
DP	ROTRY (RNAV)			KSTL	ST LOUIS	MO (US)
DP	CARDS			KSUS	ST LOUIS	MO (US)
DP	MITCHELL			KMKE	MILWAUKEE	WI (US)
EN ROUTE	J105					(US)
EN ROUTE	J181					(US)
EN ROUTE	J26		1			(US)
EN ROUTE	J64					(US)
EN ROUTE	V10		1			(US)
EN ROUTE	V127					(US)
EN ROUTE	V144					(US)
EN ROUTE	V156					(US)
EN ROUTE	V262					(US)
IAP	RNAV (GPS) RWY 21			KGBG	GALESBURG	IL (US)
IAP	VOR RWY 21			KGBG	GALESBURG	IL (US)
IAP	RNAV (GPS) RWY 01			KEZI	KEWANEE	IL (US)
IAP	RNAV (GPS) RWY 19			KEZI	KEWANEE	IL (US)
IAP	RNAV (GPS) RWY 27			KEZI	KEWANEE	IL (US)
IAP	VOR RWY 13		2	KC75	LACON	IL (US)
IAP	VOR-A			K3MY	PEORIA	IL (US)
IAP	VOR/DME OR TACAN RWY 31			KPIA	PEORIA	IL (US)
IAP	LOC RWY 36			KVYS	PERU	IL (US)
IAP	RNAV (GPS) RWY 18			KVYS	PERU	IL (US)
IAP	RNAV (GPS) RWY 36			KVYS	PERU	IL (US)
IAP	LOC BC RWY 7			KSQI	STERLING-ROCKFALLS	IL (US)
IAP	NDB RWY 7			KSQI	STERLING-ROCKFALLS	IL (US)
STAR	MOTIF		1	KMDW	CHICAGO	IL (US)
STAR	BENKY (RNAV)		3	KORD	CHICAGO	IL (US)
STAR	BRADFORD		1	KORD	CHICAGO	IL (US)
STAR	MOTIF		1	KGYY	GARY	IN (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

QUALITY 3 CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED OBSTACLE FOR PATTERN 1 AND 3.

DEVELOPED BY:	**DATE:** 02/02/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (KISSY MAXFIELD)
APPROVED BY:	**DATE:** 04/20/2012	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: PIA
OTHER:

Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/17/2012 2:40:06 PM
Input File:	ROTRY RW11 BDF 20120...
Databases:	AVNIS Date: 02/07/2012
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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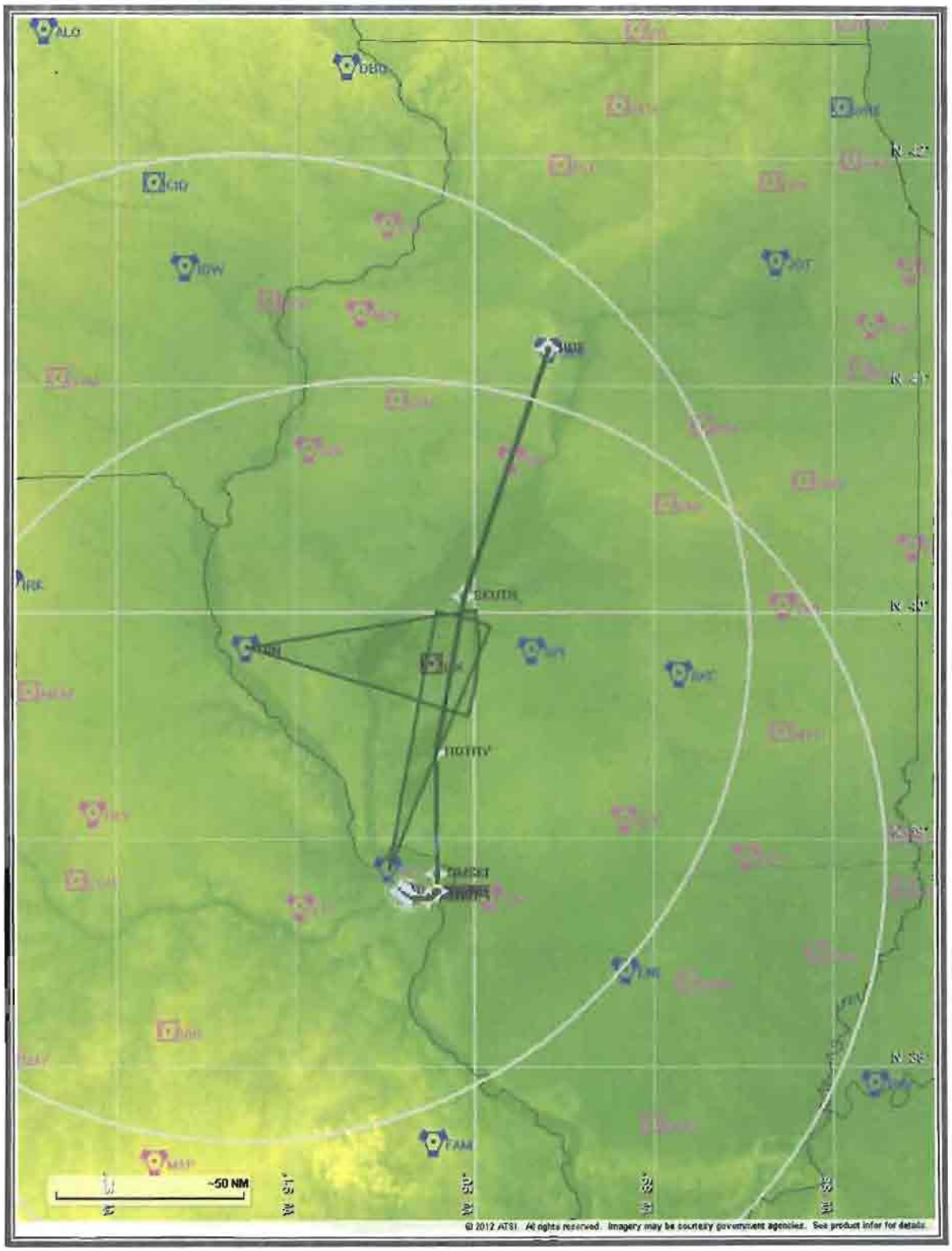
ALO
DBQ
CID
IOW
MOT
BKOTN
HOTTY
TARGET
FAM
MSP
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW11(A...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	618.0	VNAV	0.0	Fly Over	TF
RW29(D...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	591.0	VNAV	130.0	Fly Over	VA
GH11	WP	N 38° 44' 12.38" W 90° 21' 46.17"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
BEART	WP	N 38° 45' 35.04" W 90° 12' 39.30"	3100.0	VNAV	180.0	Fly By	TF
GMSKI	WP	N 38° 50' 5.28" W 90° 12' 43.23"	4000.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	10502.4	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	18000.0	VNAV	240.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -2.94 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

Return To Summary

Settings:

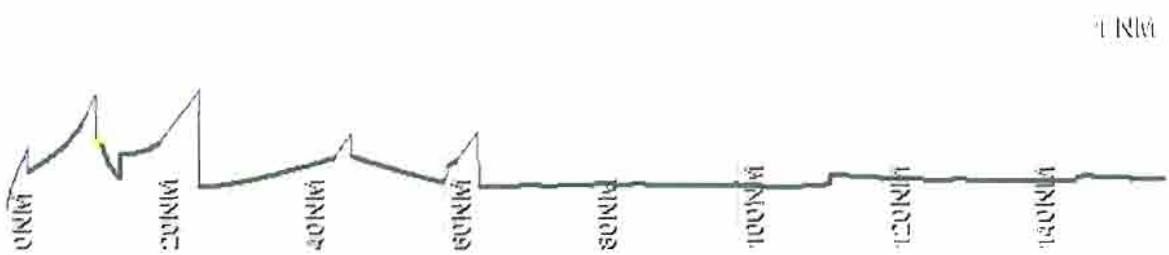
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 1839 Ft.

Total Number of DMEs Used: 13

Maximum DME Error: 0.671 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, IJX, SPI, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	1.045	Enabled	28.8 %	27.5 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	1.045	Enabled	6.9 %	4.4 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.232	Enabled	11.2 %	11.7 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.508	Enabled	12.7 %	13.4 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.014	Enabled	7.3 %	7.7 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.185	Enabled	15.6 %	16.6 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.875	Enabled	15.2 %	16.2 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.671	Enabled	37.9 %	40.4 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.671	Enabled	4.8 %	5.1 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.671	Enabled	6.4 %	6.8 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.671	Enabled	22.5 %	23.9 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.671	Enabled	3.4 %	3.6 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.671	Enabled	1.1 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX			
7.2	STL	FTZ	CSX			
10.2	STL	FTZ	CSX	TOY		
14.9	STL	IJX	CSX	TOY		
47.0	STL	IJX	CSX	SPI		
59.7	STL	SPI	UIN			
69.8	STL	CSX	UIN	AXC	BDF	ENL
89.2	STL	SPI	UIN	AXC	PIA	BDF

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
112.8	JOT	SPI	UIN	AXC	BDF	PIA
129.9	JOT	IOW	UIN	AXC	BDF	PIA
147.4	JOT	IOW	DBQ	AXC	BDF	PIA

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 35.83" W 90° 24' 35.55"	N 38° 44' 5.42" W 90° 21' 13.43"	3.1
	VOR: CSX	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.42" W 90° 21' 13.43"	
	VOR: FTZ	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.42" W 90° 21' 13.43"	
	VOR: STL	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.42" W 90° 21' 13.43"	
	VOR: TOY	Available from N 38° 45' 35.83" W 90° 24' 35.55" to N 38° 44' 5.42" W 90° 21' 13.43"	
2	N 38° 45' 16.92" W 90° 13' 6.79"	N 38° 45' 26.01" W 90° 12' 53.17"	0.2
	VOR: CSX	Available from N 38° 45' 16.92" W 90° 13' 6.79" to N 38° 45' 26.01" W 90° 12' 53.17"	
	VOR: FTZ	Available from N 38° 45' 16.92" W 90° 13' 6.79" to N 38° 45' 26.01" W 90° 12' 53.17"	
	VOR: STL	Available from N 38° 45' 16.92" W 90° 13' 6.79" to N 38° 45' 26.01" W 90° 12' 53.17"	
	VOR: TOY	Available from N 38° 45' 16.92" W 90° 13' 6.79" to N 38° 45' 26.01" W 90° 12' 53.17"	
3	N 38° 45' 31.97" W 90° 12' 46.39"	N 38° 47' 27.97" W 90° 12' 40.76"	2.0
	VOR: CSX	Available from N 38° 45' 31.97" W 90° 12' 46.39" to N 38° 47' 27.97" W 90° 12' 40.76"	
	VOR: FTZ	Available from N 38° 45' 31.97" W 90° 12' 46.39" to N 38° 47' 27.97" W 90° 12' 40.76"	
	VOR: STL	Available from N 38° 45' 31.97" W 90° 12' 46.39" to N 38° 47' 27.97" W 90° 12' 40.76"	
	VOR: TOY	Available from N 38° 45' 31.97" W 90° 12' 46.39" to N 38° 47' 27.97" W 90° 12' 40.76"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 38° 56' 9.47" W 90° 12' 48.67"	N 39° 1' 36.43" W 90° 12' 53.40"	5.4
	VOR: CSX	Available from N 38° 56' 9.47" W 90° 12' 48.67" to N 39° 1' 36.43" W 90° 12' 53.40"	
	VOR: FTZ	Available from N 38° 56' 9.47" W 90° 12' 48.67" to N 39° 0' 9.68" W 90° 12' 52.14"	
	VOR: STL	Available from N 38° 56' 9.47" W 90° 12' 48.67" to N 39° 1' 36.43" W 90° 12' 53.40"	
	VOR: TOY	Available from N 38° 56' 9.47" W 90° 12' 48.67" to N 39° 1' 36.43" W 90° 12' 53.40"	
5	N 39° 20' 7.37" W 90° 13' 9.66"	N 39° 22' 34.15" W 90° 13' 11.00"	2.4
	VOR: CSX	Available from N 39° 20' 7.37" W 90° 13' 9.66" to N 39° 22' 34.15" W 90° 13' 11.00"	
	VOR: IJX	Available from N 39° 20' 7.37" W 90° 13' 9.66" to N 39° 22' 34.15" W 90° 13' 11.00"	
	VOR: SPI	Available from N 39° 20' 7.37" W 90° 13' 9.66" to N 39° 22' 34.15" W 90° 13' 11.00"	
	VOR: STL	Available from N 39° 20' 7.37" W 90° 13' 9.66" to N 39° 22' 34.15" W 90° 13' 11.00"	
	VOR: TOY	Available from N 39° 20' 7.37" W 90° 13' 9.66" to N 39° 21' 47.45" W 90° 13' 11.14"	
6	N 39° 34' 43.57" W 90° 10' 26.30"	N 39° 35' 22.99" W 90° 10' 17.24"	0.7
	VOR: IJX	Available from N 39° 34' 43.57" W 90° 10' 26.30" to N 39° 35' 22.99" W 90° 10' 17.24"	
	VOR: SPI	Available from N 39° 34' 43.57" W 90° 10' 26.30" to N 39° 35' 22.99" W 90° 10' 17.24"	
7	N 39° 36' 38.53" W 90° 9' 59.89"	N 39° 39' 35.91" W 90° 9' 19.11"	3.0
	VOR: IJX	Available from N 39° 36' 38.53" W 90° 9' 59.89" to N 39° 39' 35.91" W 90° 9' 19.11"	
	VOR: SPI	Available from N 39° 36' 38.53" W 90° 9' 59.89" to N 39° 39' 35.91" W 90° 9' 19.11"	

DME/DME (Continued.)

Return To Summary

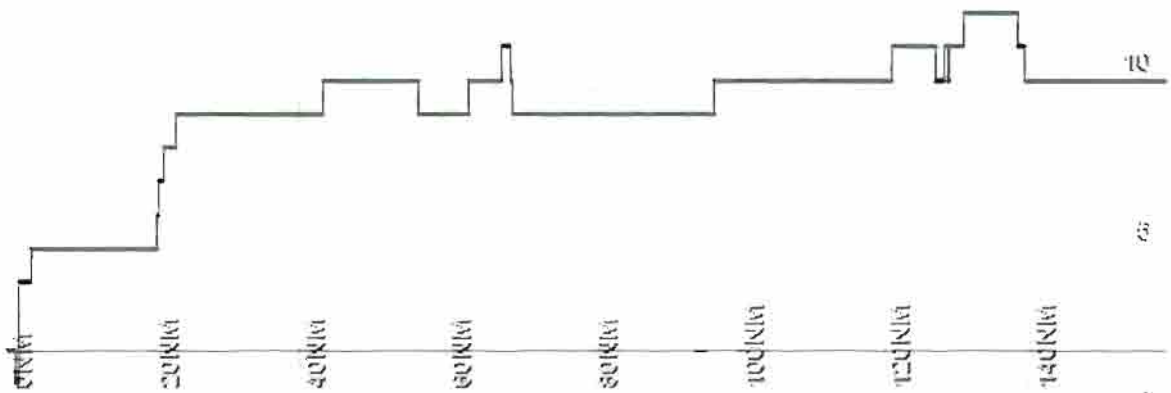
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV: Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



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Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/17/2012 3:07:25 PM
Input File:	ROTRY RW12L BDF 2012
Databases:	AVNIS Date: 02/07/2012
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	?
TERPS	?

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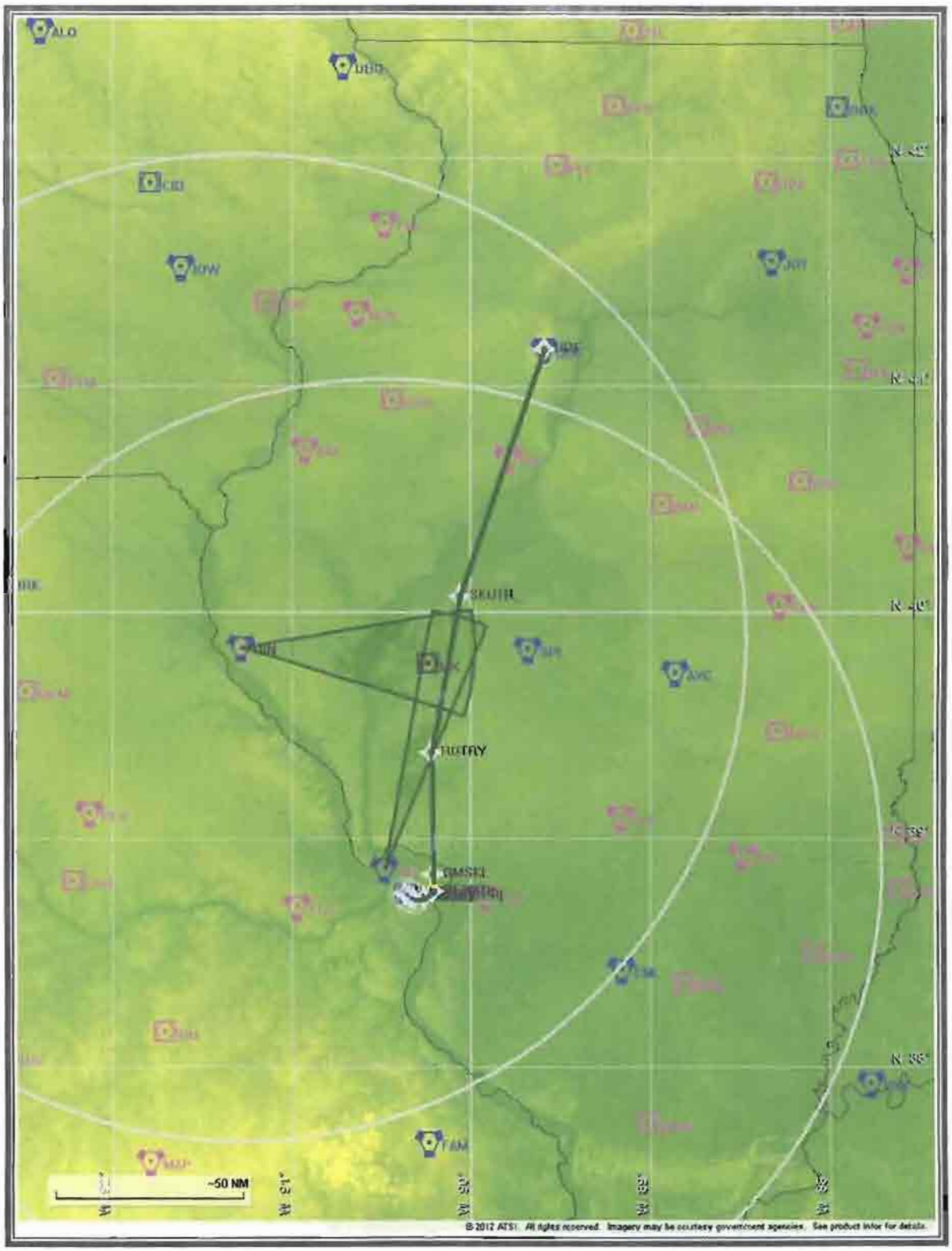
ALO
BDF
SKUTR
ROTRY
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	528.3	VNAV	0.0	Fly Over	TF
RW30R(...	WP	N 38° 44' 18.99" W 90° 20' 22.51"	639.5	VNAV	130.0	Fly Over	VA
GH12L	WP	N 38° 43' 45.99" W 90° 19' 15.61"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
BEART	WP	N 38° 45' 35.04" W 90° 12' 39.30"	3100.0	VNAV	180.0	Fly By	TF
GMSKI	WP	N 38° 50' 5.28" W 90° 12' 43.23"	4000.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	10502.4	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	18000.0	VNAV	240.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP GMSKI could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -64.22 Ft.
Flight Track contacted terrain (DTED lvl 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 , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 2122 Ft.

Total Number of DMEs Used: 13

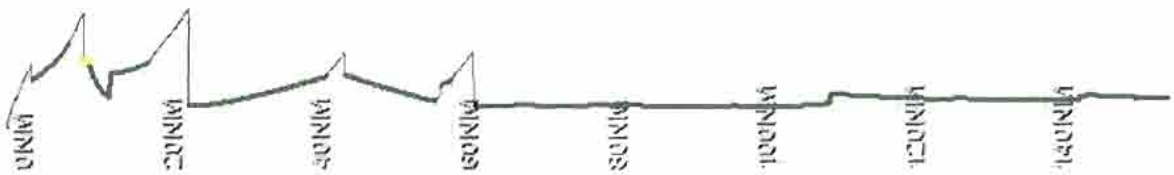
Maximum DME Error: 0.670 NM.

No Critical DMEs were found.

Available DMEs: STL, FTZ, CSX, TOY, IJX, SPI, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK

DME/INS Error | NM |

1 NM



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	0.912	Enabled	27.0 %	26.4 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.912	Enabled	4.7 %	3.0 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.285	Enabled	12.1 %	11.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.510	Enabled	13.4 %	13.6 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.012	Enabled	7.4 %	7.9 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.185	Enabled	15.9 %	16.9 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.875	Enabled	15.4 %	16.4 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.670	Enabled	38.4 %	40.8 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.670	Enabled	4.9 %	5.2 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.670	Enabled	6.4 %	6.9 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.670	Enabled	22.7 %	24.2 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.670	Enabled	3.5 %	3.7 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.670	Enabled	1.1 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.5	STL	FTZ	CSX			
5.1	STL	FTZ	CSX			
8.1	STL	FTZ	CSX	TOY		
12.9	STL	IJX	CSX	TOY		
45.0	STL	IJX	CSX	SPI		
57.7	STL	SPI	UIN			
67.7	STL	CSX	UIN	AXC	BDF	ENL
87.2	STL	SPI	UIN	AXC	PIA	BDF

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
110.7	JOT	SPI	UIN	AXC	BDF	PIA
127.8	JOT	IOW	UIN	AXC	BDF	PIA
145.3	JOT	IOW	DBQ	AXC	BDF	PIA

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 6.41" W 90° 21' 58.66"	N 38° 43' 37.88" W 90° 18' 20.87"	3.3
	VOR: CSX	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.88" W 90° 18' 20.87"	
	VOR: FTZ	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.88" W 90° 18' 20.87"	
	VOR: STL	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.88" W 90° 18' 20.87"	
	VOR: TOY	Available from N 38° 45' 6.41" W 90° 21' 58.66" to N 38° 43' 37.88" W 90° 18' 20.87"	
2	N 38° 45' 16.83" W 90° 13' 6.98"	N 38° 45' 25.90" W 90° 12' 53.35"	0.2
	VOR: CSX	Available from N 38° 45' 16.83" W 90° 13' 6.98" to N 38° 45' 25.90" W 90° 12' 53.35"	
	VOR: FTZ	Available from N 38° 45' 16.83" W 90° 13' 6.98" to N 38° 45' 25.90" W 90° 12' 53.35"	
	VOR: STL	Available from N 38° 45' 16.83" W 90° 13' 6.98" to N 38° 45' 25.90" W 90° 12' 53.35"	
	VOR: TOY	Available from N 38° 45' 16.83" W 90° 13' 6.98" to N 38° 45' 25.90" W 90° 12' 53.35"	
3	N 38° 45' 31.85" W 90° 12' 46.52"	N 38° 47' 26.86" W 90° 12' 40.76"	1.9
	VOR: CSX	Available from N 38° 45' 31.85" W 90° 12' 46.52" to N 38° 47' 26.86" W 90° 12' 40.76"	
	VOR: FTZ	Available from N 38° 45' 31.85" W 90° 12' 46.52" to N 38° 47' 26.86" W 90° 12' 40.76"	
	VOR: STL	Available from N 38° 45' 31.85" W 90° 12' 46.52" to N 38° 47' 26.86" W 90° 12' 40.76"	
	VOR: TOY	Available from N 38° 45' 31.85" W 90° 12' 46.52" to N 38° 47' 26.86" W 90° 12' 40.76"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 38° 56' 6.88" W 90° 12' 48.62"	N 39° 1' 33.84" W 90° 12' 53.35"	5.4
	VOR: CSX	Available from N 38° 56' 6.88" W 90° 12' 48.62" to N 39° 1' 33.84" W 90° 12' 53.35"	
	VOR: FTZ	Available from N 38° 56' 6.88" W 90° 12' 48.62" to N 39° 0' 7.10" W 90° 12' 52.09"	
	VOR: STL	Available from N 38° 56' 6.88" W 90° 12' 48.62" to N 39° 1' 33.84" W 90° 12' 53.35"	
	VOR: TOY	Available from N 38° 56' 6.88" W 90° 12' 48.62" to N 39° 1' 33.84" W 90° 12' 53.35"	
5	N 39° 20' 8.12" W 90° 13' 9.67"	N 39° 22' 34.90" W 90° 13' 10.93"	2.4
	VOR: CSX	Available from N 39° 20' 8.12" W 90° 13' 9.67" to N 39° 22' 34.90" W 90° 13' 10.93"	
	VOR: IJX	Available from N 39° 20' 8.12" W 90° 13' 9.67" to N 39° 22' 34.90" W 90° 13' 10.93"	
	VOR: SPI	Available from N 39° 20' 8.12" W 90° 13' 9.67" to N 39° 22' 34.90" W 90° 13' 10.93"	
	VOR: STL	Available from N 39° 20' 8.12" W 90° 13' 9.67" to N 39° 22' 34.90" W 90° 13' 10.93"	
	VOR: TOY	Available from N 39° 20' 8.12" W 90° 13' 9.67" to N 39° 21' 48.20" W 90° 13' 11.15"	
6	N 39° 34' 44.31" W 90° 10' 26.13"	N 39° 35' 20.44" W 90° 10' 17.83"	0.6
	VOR: IJX	Available from N 39° 34' 44.31" W 90° 10' 26.13" to N 39° 35' 20.44" W 90° 10' 17.83"	
	VOR: SPI	Available from N 39° 34' 44.31" W 90° 10' 26.13" to N 39° 35' 20.44" W 90° 10' 17.83"	
7	N 39° 36' 39.27" W 90° 9' 59.72"	N 39° 39' 36.64" W 90° 9' 18.94"	3.0
	VOR: IJX	Available from N 39° 36' 39.27" W 90° 9' 59.72" to N 39° 39' 36.64" W 90° 9' 18.94"	
	VOR: SPI	Available from N 39° 36' 39.27" W 90° 9' 59.72" to N 39° 39' 36.64" W 90° 9' 18.94"	

DME/DME (Continued.)

Return To Summary

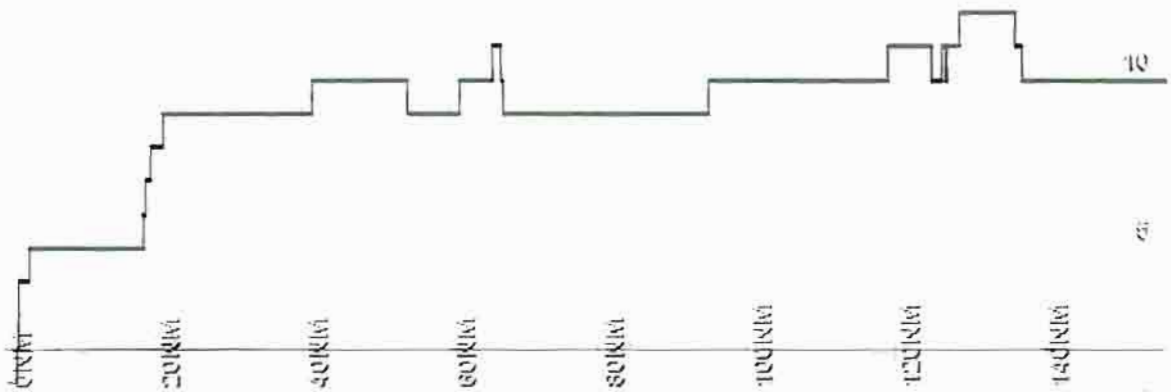
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV: Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/19/2012 8:04:42 AM
Input File:	ROTRY RW12R BDF 2012...
Databases:	AVNIS Date: 02/07/2012
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	Please Check Flyability Results
DME/DME	✔	
Radars	✔	
Comms	?	
TERPS	?	

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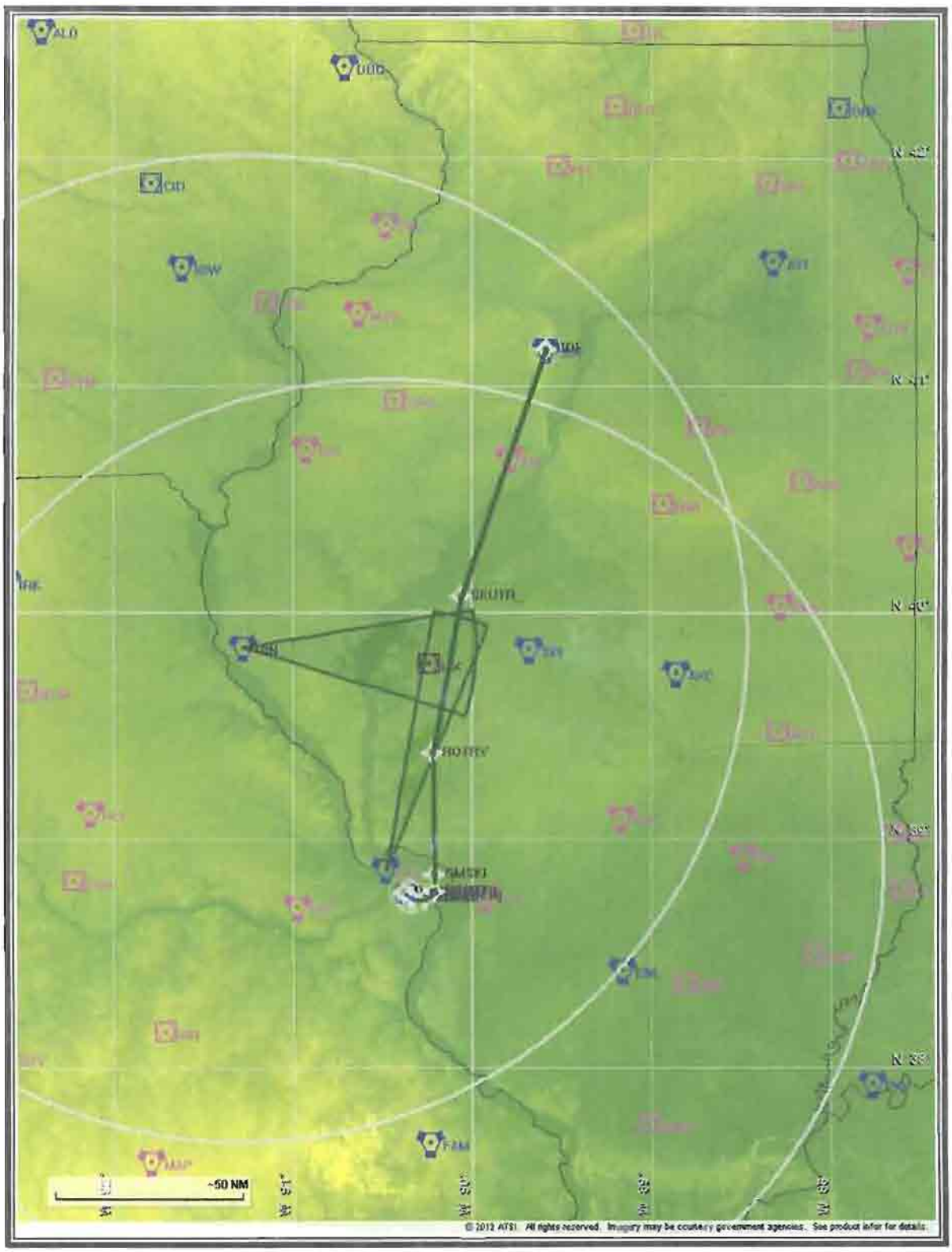
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW12R(...	WP	N 38° 45' 11.59" W 90° 22' 39.98"	541.6	VNAV	0.0	Fly Over	TF
RW30L(...	WP	N 38° 44' 16.01" W 90° 20' 47.27"	620.8	VNAV	130.0	Fly Over	VA
GH12R	WP	N 38° 43' 41.83" W 90° 19' 37.95"	1120.0	VNAV	145.0	Fly Over	DF
FUNKE	WP	N 38° 43' 39.26" W 90° 15' 35.58"	2500.0	VNAV	180.0	Fly By	TF
BEART	WP	N 38° 45' 35.04" W 90° 12' 39.30"	3100.0	VNAV	180.0	Fly By	TF
GMSKI	WP	N 38° 50' 5.28" W 90° 12' 43.23"	4000.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	10502.4	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	18000.0	VNAV	240.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Required IAS at Fly-By WP GMSKI could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -71.92 Ft
Flight Track contacted terrain (DTED lvl 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 , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 2017 Ft

Total Number of DMEs Used: 13

Maximum DME Error: 0.670 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, CSX, TOY, UX, SPI, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	0.952	Enabled	27.3 %	26.6 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.952	Enabled	5.1 %	3.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	1.277	Enabled	11.9 %	11.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.510	Enabled	13.2 %	13.5 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.012	Enabled	7.3 %	7.8 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.183	Enabled	15.7 %	16.7 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.876	Enabled	15.3 %	16.3 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.670	Enabled	38.2 %	40.7 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.670	Enabled	4.9 %	5.2 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.670	Enabled	6.4 %	6.9 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.670	Enabled	22.6 %	24.1 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.670	Enabled	3.5 %	3.7 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.670	Enabled	1.1 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.8	STL	FTZ	CSX			
5.7	STL	FTZ	CSX			
8.7	STL	FTZ	CSX	TOY		
13.4	STL	IJX	CSX	TOY		
45.6	STL	IJX	CSX	SPI		
58.2	STL	SPI	UIN			
68.3	STL	CSX	UIN	AXC	BDF	ENL
87.7	STL	SPI	UIN	AXC	PIA	BDF

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
111.3	JOT	SPI	UIN	AXC	BDF	PIA
128.4	JOT	IOW	UIN	AXC	BDF	PIA
145.9	JOT	IOW	DBQ	AXC	BDF	PIA

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 45' 11.59" W 90° 22' 39.98"	N 38° 43' 34.35" W 90° 18' 50.17"	3.5
	VOR: CSX	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.35" W 90° 18' 50.17"	
	VOR: FTZ	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.35" W 90° 18' 50.17"	
	VOR: STL	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.35" W 90° 18' 50.17"	
	VOR: TOY	Available from N 38° 45' 11.59" W 90° 22' 39.98" to N 38° 43' 34.35" W 90° 18' 50.17"	
2	N 38° 45' 17.42" W 90° 13' 6.08"	N 38° 45' 26.53" W 90° 12' 52.49"	0.2
	VOR: CSX	Available from N 38° 45' 17.42" W 90° 13' 6.08" to N 38° 45' 26.53" W 90° 12' 52.49"	
	VOR: FTZ	Available from N 38° 45' 17.42" W 90° 13' 6.08" to N 38° 45' 26.53" W 90° 12' 52.49"	
	VOR: STL	Available from N 38° 45' 17.42" W 90° 13' 6.08" to N 38° 45' 26.53" W 90° 12' 52.49"	
	VOR: TOY	Available from N 38° 45' 17.42" W 90° 13' 6.08" to N 38° 45' 26.53" W 90° 12' 52.49"	
3	N 38° 45' 32.60" W 90° 12' 45.86"	N 38° 47' 27.78" W 90° 12' 40.76"	1.9
	VOR: CSX	Available from N 38° 45' 32.60" W 90° 12' 45.86" to N 38° 47' 27.78" W 90° 12' 40.76"	
	VOR: FTZ	Available from N 38° 45' 32.60" W 90° 12' 45.86" to N 38° 47' 27.78" W 90° 12' 40.76"	
	VOR: STL	Available from N 38° 45' 32.60" W 90° 12' 45.86" to N 38° 47' 27.78" W 90° 12' 40.76"	
	VOR: TOY	Available from N 38° 45' 32.60" W 90° 12' 45.86" to N 38° 47' 27.78" W 90° 12' 40.76"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
4	N 38° 56' 8.22" W 90° 12' 48.64"	N 39° 1' 35.18" W 90° 12' 53.37"	5.4
	VOR: CSX	Available from N 38° 56' 8.22" W 90° 12' 48.64" to N 39° 1' 35.18" W 90° 12' 53.37"	
	VOR: FTZ	Available from N 38° 56' 8.22" W 90° 12' 48.64" to N 39° 0' 8.43" W 90° 12' 52.12"	
	VOR: STL	Available from N 38° 56' 8.22" W 90° 12' 48.64" to N 39° 1' 35.18" W 90° 12' 53.37"	
	VOR: TOY	Available from N 38° 56' 8.22" W 90° 12' 48.64" to N 39° 1' 35.18" W 90° 12' 53.37"	
5	N 39° 20' 9.46" W 90° 13' 9.69"	N 39° 22' 36.23" W 90° 13' 10.81"	2.4
	VOR: CSX	Available from N 39° 20' 9.46" W 90° 13' 9.69" to N 39° 22' 36.23" W 90° 13' 10.81"	
	VOR: IJX	Available from N 39° 20' 9.46" W 90° 13' 9.69" to N 39° 22' 36.23" W 90° 13' 10.81"	
	VOR: SPI	Available from N 39° 20' 9.46" W 90° 13' 9.69" to N 39° 22' 36.23" W 90° 13' 10.81"	
	VOR: STL	Available from N 39° 20' 9.46" W 90° 13' 9.69" to N 39° 22' 36.23" W 90° 13' 10.81"	
	VOR: TOY	Available from N 39° 20' 9.46" W 90° 13' 9.69" to N 39° 21' 49.54" W 90° 13' 11.17"	
6	N 39° 34' 42.34" W 90° 10' 26.58"	N 39° 35' 21.76" W 90° 10' 17.53"	0.7
	VOR: IJX	Available from N 39° 34' 42.34" W 90° 10' 26.58" to N 39° 35' 21.76" W 90° 10' 17.53"	
	VOR: SPI	Available from N 39° 34' 42.34" W 90° 10' 26.58" to N 39° 35' 21.76" W 90° 10' 17.53"	
7	N 39° 36' 37.31" W 90° 10' 0.17"	N 39° 39' 34.68" W 90° 9' 19.40"	3.0
	VOR: IJX	Available from N 39° 36' 37.31" W 90° 10' 0.17" to N 39° 39' 34.68" W 90° 9' 19.40"	
	VOR: SPI	Available from N 39° 36' 37.31" W 90° 10' 0.17" to N 39° 39' 34.68" W 90° 9' 19.40"	

DME/DME (Continued.)

Return To Summary

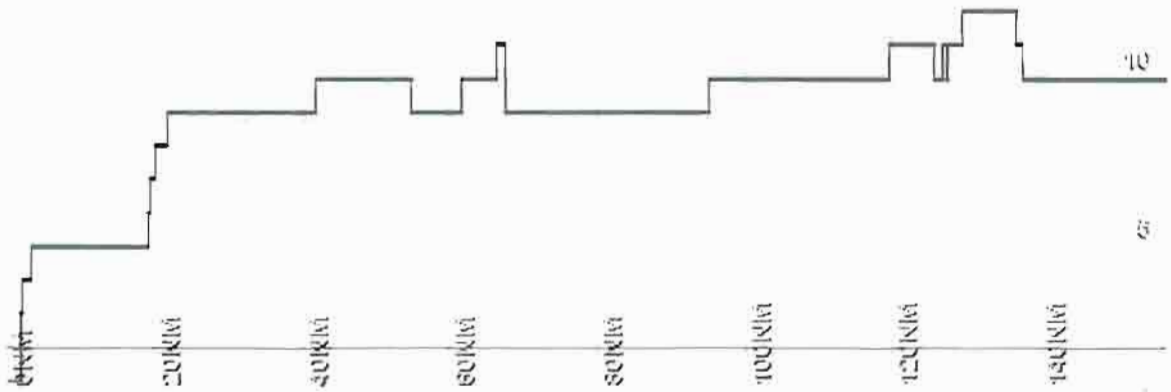
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV. Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV. Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/19/2012 8:24:17 AM
Input File:	ROTRY RW29 BDF 20120...
Databases:	AVNIS Date: 02/07/2012 NFD Date: 07/02/2009 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔	Please Check Flyability Results
DME/DME	✔	
Radars	✔	
Comms		
TERPS		

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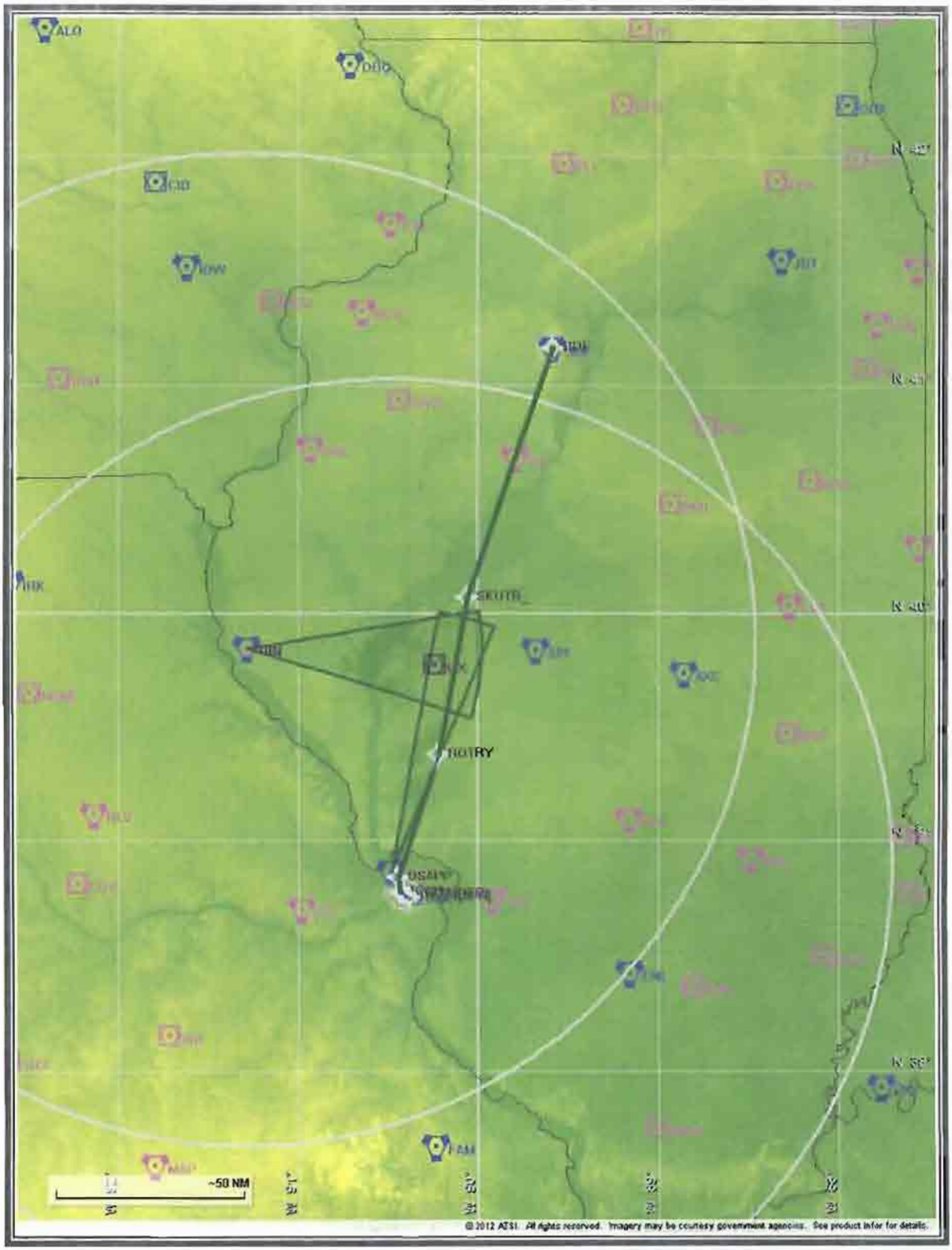
ALO
DBQ
C30
IOW
JIT
BDF
HIX
SKUTR
ROTRY
DSAIN
FAM
MKP
~50 NM
N 42°
N 41°
N 40°
N 39°
N 38°
W 95°
W 94°
W 93°
W 92°
W 91°
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW29(A...	WP	N 38° 44' 48.46" W 90° 22' 59.39"	556.0	VNAV	0.0	Fly Over	TF
RW11(D...	WP	N 38° 45' 35.83" W 90° 24' 35.55"	653.0	VNAV	130.0	Fly Over	VA
GH29:	WP	N 38° 46' 7.94" W 90° 25' 40.74"	1120.0	VNAV	145.0	Fly Over	DF
DSAPP	WP	N 38° 50' 1.06" W 90° 26' 38.98"	2500.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	9344.3	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	17762.1	VNAV	210.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -47.99 Ft.
Flight Track contacted terrain (DTED lvl 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 , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 1661 Ft

Total Number of DMEs Used: 13

Maximum DME Error: 0.578 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, TOY, CSX, SPI, UX, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK

---

1 NM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	0.841	Enabled	22.2 %	22.2 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.774	Enabled	14.3 %	11.2 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.610	Enabled	15.6 %	13.8 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.117	Enabled	9.8 %	10.2 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.087	Enabled	10.2 %	10.9 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.087	Enabled	16.6 %	17.7 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.902	Enabled	18.4 %	19.7 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.578	Enabled	37.7 %	40.2 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.578	Enabled	5.0 %	5.3 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.578	Enabled	6.7 %	7.1 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.578	Enabled	23.4 %	24.9 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.578	Enabled	3.5 %	3.8 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.578	Enabled	1.2 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5	STL					
2.5	STL	FTZ	CSX	TOY		
6.3	STL	FTZ	CSX	TOY	SPI	
40.4	STL	IJX	CSX	UIN	SPI	
57.5	STL	AXC	CSX	UIN	BDF	SPI
82.5	STL	AXC	SPI	UIN	PIA	BDF
106.0	JOT	AXC	SPI	UIN	BDF	PIA
123.2	JOT	AXC	IOW	UIN	BDF	PIA
140.7	JOT	AXC	IOW	DBQ	BDF	PIA

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 48.46" W 90° 22' 59.39"	N 38° 46' 23.73" W 90° 26' 0.02"	2.9
	VOR: CSX	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.73" W 90° 26' 0.02"	
	VOR: FTZ	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.73" W 90° 26' 0.02"	
	VOR: STL	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.73" W 90° 26' 0.02"	
	VOR: TOY	Available from N 38° 44' 48.46" W 90° 22' 59.39" to N 38° 46' 23.73" W 90° 26' 0.02"	
2	N 39° 5' 2.58" W 90° 20' 28.80"	N 39° 5' 37.52" W 90° 20' 14.39"	0.6
	VOR: CSX	Available from N 39° 5' 2.58" W 90° 20' 28.80" to N 39° 5' 37.52" W 90° 20' 14.39"	
	VOR: FTZ	Available from N 39° 5' 2.58" W 90° 20' 28.80" to N 39° 5' 37.52" W 90° 20' 14.39"	
	VOR: STL	Available from N 39° 5' 2.58" W 90° 20' 28.80" to N 39° 5' 37.52" W 90° 20' 14.39"	
	VOR: TOY	Available from N 39° 5' 2.58" W 90° 20' 28.80" to N 39° 5' 37.52" W 90° 20' 14.39"	
3	N 39° 18' 10.22" W 90° 15' 3.02"	N 39° 22' 50.09" W 90° 13' 9.03"	4.9
	VOR: CSX	Available from N 39° 18' 10.22" W 90° 15' 3.02" to N 39° 22' 50.09" W 90° 13' 9.03"	
	VOR: IJX	Available from N 39° 18' 10.22" W 90° 15' 3.02" to N 39° 22' 50.09" W 90° 13' 9.03"	
	VOR: STL	Available from N 39° 18' 10.22" W 90° 15' 3.02" to N 39° 22' 50.09" W 90° 13' 9.03"	
	VOR: TOY	Available from N 39° 18' 10.22" W 90° 15' 3.02" to N 39° 21' 39.78" W 90° 13' 35.97"	
	VOR: SPI	Available from N 39° 19' 58.18" W 90° 14' 18.20" to N 39° 22' 50.09" W 90° 13' 9.03"	
4	N 39° 39' 8.92" W 90° 9' 24.94"	N 39° 39' 35.19" W 90° 9' 18.91"	0.4
	VOR: IJX	Available from N 39° 39' 8.92" W 90° 9' 24.94" to N 39° 39' 35.19" W 90° 9' 18.91"	
	VOR: SPI	Available from N 39° 39' 8.92" W 90° 9' 24.94" to N 39° 39' 35.19" W 90° 9' 18.91"	

DME/DME (Continued.)

Return To Summary

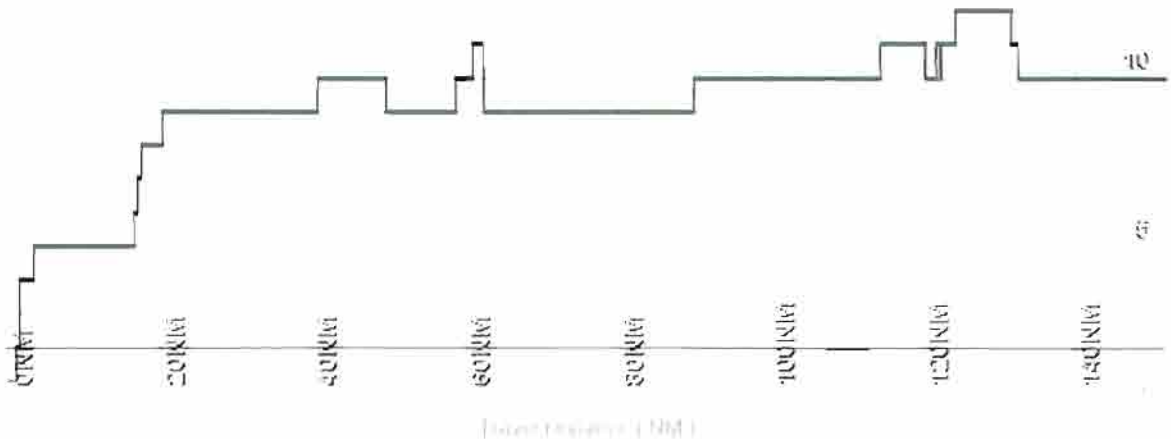
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV: Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/19/2012 8:44:02 AM
Input File:	ROTRY RW30L BDF 2012
Databases:	AVNIS Date: 02/07/2012
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	
TERPS	

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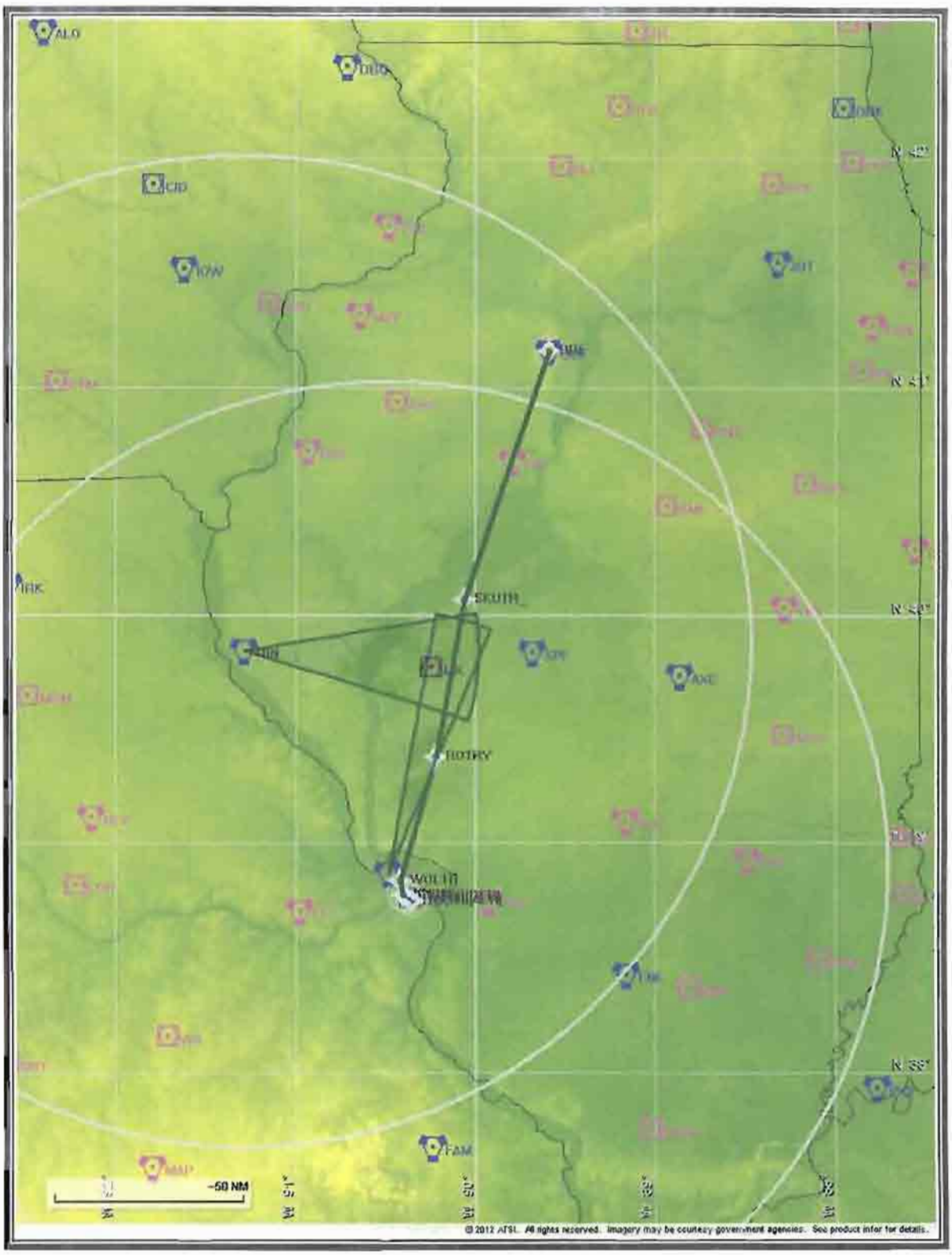
ALO
CID
IOW
IRK
SKUTH
ROTRY
AXE
FAM
MAP
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30L(...	WP	N 38° 44' 17.08" W 90° 20' 49.42"	585.8	VNAV	0.0	Fly Over	TF
RW12R(..	WP	N 38° 45' 14.05" W 90° 22' 44.97"	576.6	VNAV	130.0	Fly Over	VA
GH30L	WP	N 38° 45' 51.06" W 90° 24' 0.06"	1120.0	VNAV	145.0	Fly Over	DF
WOLTR	WP	N 38° 49' 41.32" W 90° 25' 3.02"	2500.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	9335.6	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	17753.4	VNAV	210.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -31.97 Ft.
Flight Track contacted terrain (DTED lvl 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 , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 1662 Ft

Total Number of DMEs Used: 13

Maximum DME Error: 0.567 NM

No Critical DMEs were found

Available DMEs: STL, FTZ, TOY, CSX, SPI, UX, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK

1 NM

DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	0.842	Enabled	20.9 %	21.4 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.621	Enabled	14.4 %	11.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.621	Enabled	16.5 %	14.4 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.146	Enabled	9.4 %	9.9 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.076	Enabled	10.2 %	10.9 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.076	Enabled	16.5 %	17.6 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.904	Enabled	18.4 %	19.7 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.567	Enabled	37.6 %	40.1 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.567	Enabled	4.9 %	5.3 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.567	Enabled	6.6 %	7.1 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.567	Enabled	23.3 %	24.9 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.567	Enabled	3.5 %	3.7 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.567	Enabled	1.2 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.8						
2.9	STL	FTZ	CSX	TOY		
6.7	STL	FTZ	CSX	TOY	SPI	
40.8	STL	IJX	CSX	UIN	SPI	
57.9	STL	AXC	CSX	UIN	BDF	SPI
82.8	STL	AXC	SPI	UIN	PIA	BDF
106.4	JOT	AXC	SPI	UIN	BDF	PIA
123.5	JOT	AXC	IOW	UIN	BDF	PIA
141.0	JOT	AXC	IOW	DBQ	BDF	PIA

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 17.08" W 90° 20' 49.42"	N 38° 46' 5.16" W 90° 24' 16.01"	3.3
	VOR: CSX	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.16" W 90° 24' 16.01"	
	VOR: FTZ	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.16" W 90° 24' 16.01"	
	VOR: STL	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.16" W 90° 24' 16.01"	
	VOR: TOY	Available from N 38° 44' 17.08" W 90° 20' 49.42" to N 38° 46' 5.16" W 90° 24' 16.01"	
2	N 39° 4' 8.94" W 90° 19' 52.31"	N 39° 5' 13.19" W 90° 19' 29.21"	1.1
	VOR: CSX	Available from N 39° 4' 8.94" W 90° 19' 52.31" to N 39° 5' 13.19" W 90° 19' 29.21"	
	VOR: FTZ	Available from N 39° 4' 8.94" W 90° 19' 52.31" to N 39° 5' 13.19" W 90° 19' 29.21"	
	VOR: STL	Available from N 39° 4' 8.94" W 90° 19' 52.31" to N 39° 5' 13.19" W 90° 19' 29.21"	
	VOR: TOY	Available from N 39° 4' 8.94" W 90° 19' 52.31" to N 39° 5' 13.19" W 90° 19' 29.21"	
3	N 39° 18' 26.59" W 90° 14' 42.90"	N 39° 22' 50.20" W 90° 13' 8.79"	4.6
	VOR: CSX	Available from N 39° 18' 26.59" W 90° 14' 42.90" to N 39° 22' 50.20" W 90° 13' 8.79"	
	VOR: IJX	Available from N 39° 18' 26.59" W 90° 14' 42.90" to N 39° 22' 50.20" W 90° 13' 8.79"	
	VOR: STL	Available from N 39° 18' 26.59" W 90° 14' 42.90" to N 39° 22' 50.20" W 90° 13' 8.79"	
	VOR: TOY	Available from N 39° 18' 26.59" W 90° 14' 42.90" to N 39° 21' 42.50" W 90° 13' 31.91"	
	VOR: SPI	Available from N 39° 19' 56.52" W 90° 14' 10.33" to N 39° 22' 50.20" W 90° 13' 8.79"	
4	N 39° 39' 12.35" W 90° 9' 24.15"	N 39° 39' 35.34" W 90° 9' 18.87"	0.4
	VOR: IJX	Available from N 39° 39' 12.35" W 90° 9' 24.15" to N 39° 39' 35.34" W 90° 9' 18.87"	
	VOR: SPI	Available from N 39° 39' 12.35" W 90° 9' 24.15" to N 39° 39' 35.34" W 90° 9' 18.87"	

DME/DME (Continued.)

Return To Summary

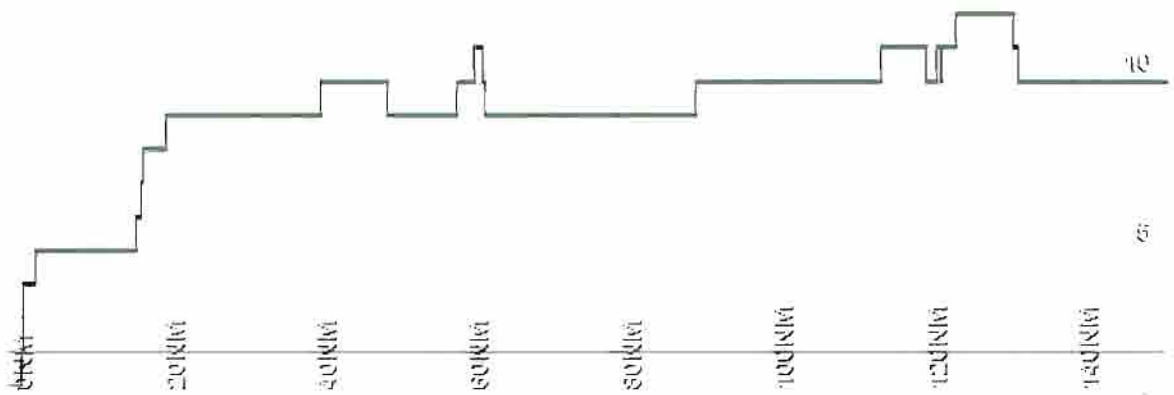
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV: Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	enanders
Project Name:	
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	4/19/2012 9:04:54 AM
Input File:	ROTRY RW30R BDF 2012...
Databases:	AVNIS Date: 02/07/2012
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✔ Please Check Flyability Results
DME/DME	✔
Radars	✔
Comms	
TERPS	

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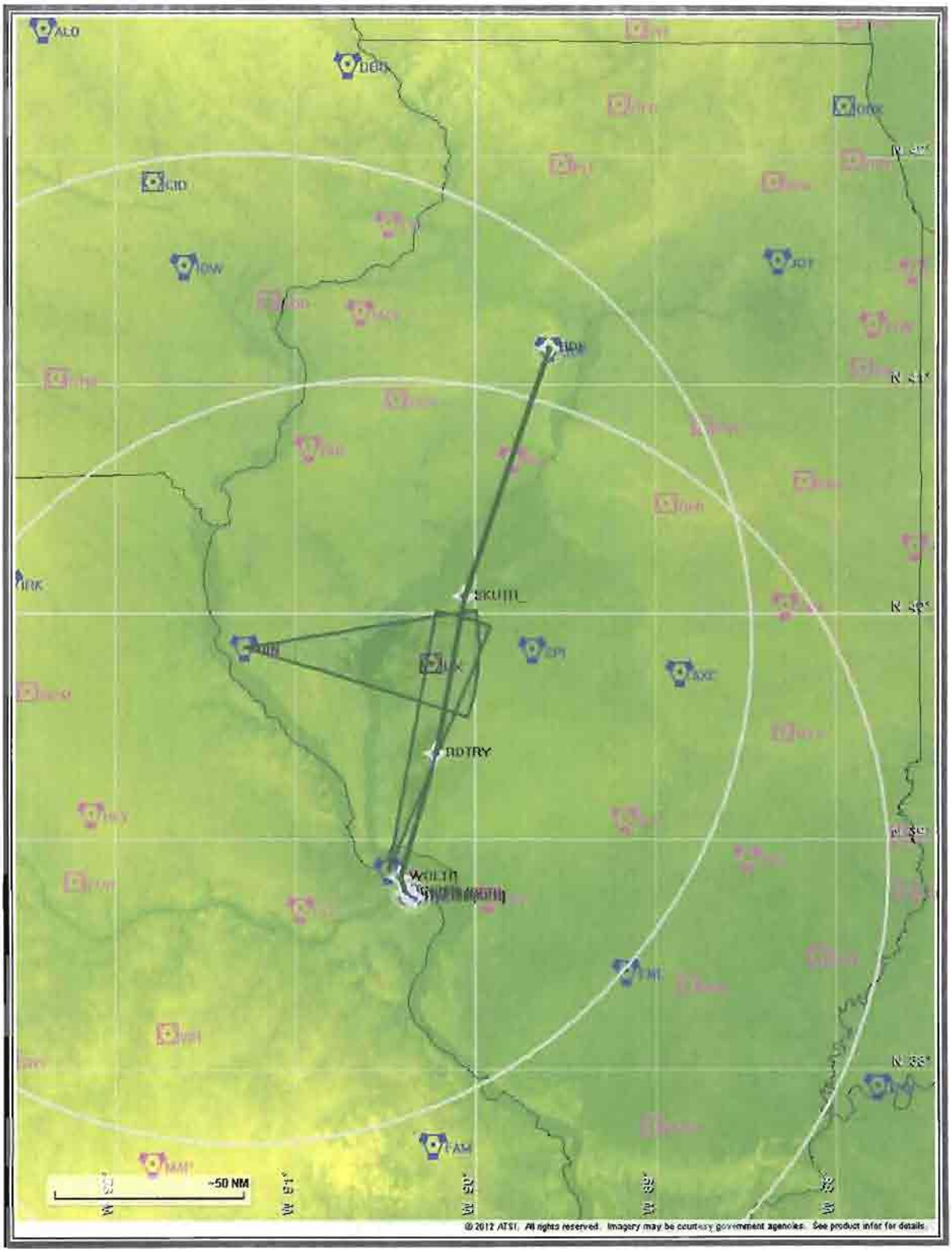
ALO
DBQ
CID
IOW
BDF
IRK
SKUTT
ROTRY
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW30R(...	WP	N 38° 44' 18.99" W 90° 20' 22.51"	604.5	VNAV	0.0	Fly Over	TF
RW12L(...	WP	N 38° 45' 6.41" W 90° 21' 58.66"	563.3	VNAV	130.0	Fly Over	VA
GH30R	WP	N 38° 45' 44.28" W 90° 23' 15.46"	1120.0	VNAV	145.0	Fly Over	DF
WOLTR	WP	N 38° 49' 41.32" W 90° 25' 3.02"	2500.0	VNAV	180.0	Fly By	TF
ROTRY	WP	N 39° 22' 37.69" W 90° 13' 11.88"	9335.6	VNAV	180.0	Fly By	TF
SKUTR_	WP	N 40° 4' 6.09" W 90° 3' 39.12"	17753.4	VNAV	210.0	Fly By	TF
BDF	WP	N 41° 9' 35.03" W 89° 35' 16.34"	18000.0	VNAV	240.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL

Climb Gradient: 200 Ft/NM after next to last waypoint up to 18000.0 Ft

Flyability

Return To Summary

Settings:

Flight Type: Departure
Selected Airport: KSTL
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 1120.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **29000.0 Ft.**
280.0 Kts up to **99900.0 Ft.**
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -19.95 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER

DME/DME

Return To Summary

Settings:

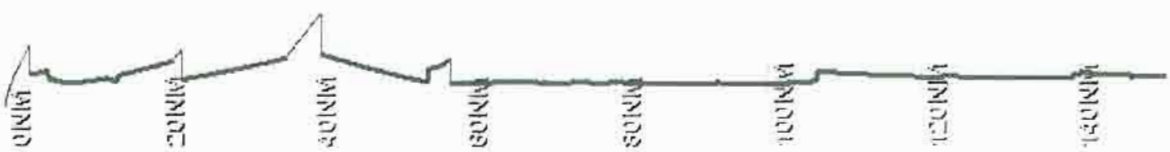
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 1773 Ft.

Total Number of DMEs Used: 13

Maximum DME Error: 0.567 NM

No Critical DMEs were found.

Available DMEs: STL, FTZ, TOY, CSX, SPI, IJX, UIN, ENL, AXC, BDF, PIA, JOT, IOW, DBQ, OBK



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H + ESV	User	NO	0.844	Enabled	21.4 %	21.7 %
2	FTZ	N 38° 41' 39.58" W 90° 58' 16.17"	L	Database	NO	0.621	Enabled	14.5 %	11.3 %
3	CSX	N 38° 45' 9.88" W 90° 21' 39.46"	H	Database	NO	0.621	Enabled	16.2 %	14.2 %
4	TOY	N 38° 44' 20.97" W 89° 55' 7.06"	L	Database	NO	1.148	Enabled	9.4 %	9.9 %
5	IJX	N 39° 46' 35.17" W 90° 14' 19.44"	T	Database	NO	1.076	Enabled	10.2 %	10.9 %
6	SPI	N 39° 50' 23.04" W 89° 40' 39.83"	H	Database	NO	1.076	Enabled	16.5 %	17.6 %
7	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H + ESV	User	NO	0.904	Enabled	18.4 %	19.7 %
8	AXC	N 39° 44' 15.08" W 88° 51' 23.15"	H	Database	NO	0.567	Enabled	37.6 %	40.1 %
9	BDF	N 41° 9' 35.03" W 89° 35' 16.34"	H	Database	NO	0.567	Enabled	5.0 %	5.3 %
10	PIA	N 40° 40' 48.26" W 89° 47' 33.91"	L	Database	NO	0.567	Enabled	6.6 %	7.1 %
11	JOT	N 41° 32' 47.10" W 88° 19' 6.28"	H	Database	NO	0.567	Enabled	23.3 %	24.9 %
12	IOW	N 41° 31' 8.26" W 91° 36' 47.70"	H	Database	NO	0.567	Enabled	3.5 %	3.8 %
13	DBQ	N 42° 24' 5.30" W 90° 42' 32.67"	H	Database	NO	0.567	Enabled	1.1 %	1.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.5						
2.6	STL	FTZ	CSX	TOY		
6.6	STL	FTZ	CSX	TOY	SPI	
40.8	STL	IJX	CSX	UIN	SPI	
57.8	STL	AXC	CSX	UIN	BDF	SPI
82.8	STL	AXC	SPI	UIN	PIA	BDF
106.4	JOT	AXC	SPI	UIN	BDF	PIA
123.5	JOT	AXC	IOW	UIN	BDF	PIA
141.0	JOT	AXC	IOW	DBQ	BDF	PIA

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 44' 18.99" W 90° 20' 22.51"	N 38° 46' 2.47" W 90° 23' 33.63"	3.1
	VOR: CSX	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.47" W 90° 23' 33.63"	
	VOR: FTZ	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.47" W 90° 23' 33.63"	
	VOR: STL	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.47" W 90° 23' 33.63"	
	VOR: TOY	Available from N 38° 44' 18.99" W 90° 20' 22.51" to N 38° 46' 2.47" W 90° 23' 33.63"	
2	N 39° 4' 6.30" W 90° 19' 53.26"	N 39° 5' 13.76" W 90° 19' 29.00"	1.2
	VOR: CSX	Available from N 39° 4' 6.30" W 90° 19' 53.26" to N 39° 5' 13.76" W 90° 19' 29.00"	
	VOR: FTZ	Available from N 39° 4' 6.30" W 90° 19' 53.26" to N 39° 5' 13.76" W 90° 19' 29.00"	
	VOR: STL	Available from N 39° 4' 6.30" W 90° 19' 53.26" to N 39° 5' 13.76" W 90° 19' 29.00"	
	VOR: TOY	Available from N 39° 4' 6.30" W 90° 19' 53.26" to N 39° 5' 13.76" W 90° 19' 29.00"	
3	N 39° 18' 27.17" W 90° 14' 42.69"	N 39° 22' 50.79" W 90° 13' 8.63"	4.6
	VOR: CSX	Available from N 39° 18' 27.17" W 90° 14' 42.69" to N 39° 22' 50.79" W 90° 13' 8.63"	
	VOR: IJX	Available from N 39° 18' 27.17" W 90° 14' 42.69" to N 39° 22' 50.79" W 90° 13' 8.63"	
	VOR: STL	Available from N 39° 18' 27.17" W 90° 14' 42.69" to N 39° 22' 50.79" W 90° 13' 8.63"	
	VOR: TOY	Available from N 39° 18' 27.17" W 90° 14' 42.69" to N 39° 21' 43.07" W 90° 13' 31.70"	
	VOR: SPI	Available from N 39° 19' 53.88" W 90° 14' 11.29" to N 39° 22' 50.79" W 90° 13' 8.63"	
4	N 39° 39' 9.65" W 90° 9' 24.76"	N 39° 39' 35.93" W 90° 9' 18.74"	0.4
	VOR: IJX	Available from N 39° 39' 9.65" W 90° 9' 24.76" to N 39° 39' 35.93" W 90° 9' 18.74"	
	VOR: SPI	Available from N 39° 39' 9.65" W 90° 9' 24.76" to N 39° 39' 35.93" W 90° 9' 18.74"	

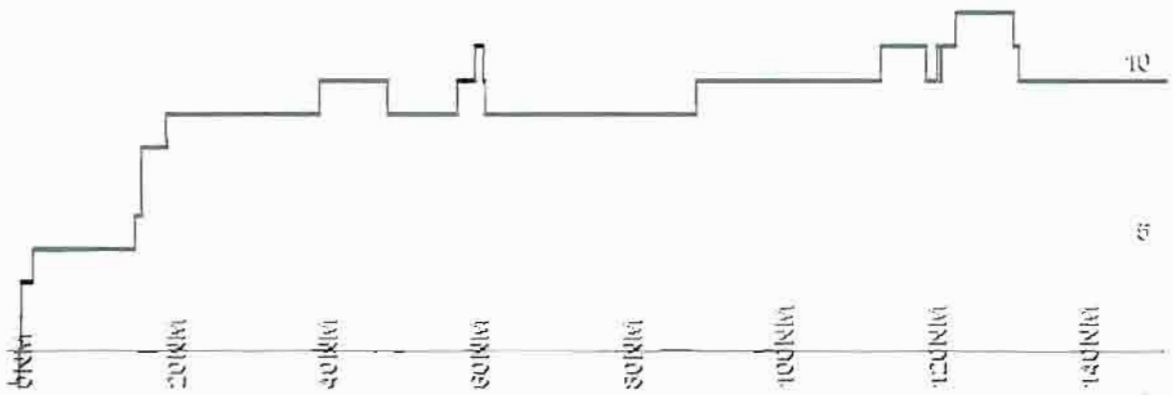
DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	UIN	N 39° 50' 52.35" W 91° 16' 44.13"	H	715.1	113.60	UIN	Used
		ESV: Bearing [True]: 80.0° to 107.0° Bearing [Mag]: 75.0° to 102.0°			Arc Distance: Out to 60.0 NM Altitude: 10000.0 to 17000.0 Ft.		
2	STL	N 38° 51' 38.48" W 90° 28' 56.52"	H	449.5	117.40	STL	Used
		ESV: Bearing [True]: 10.0° to 22.0° Bearing [Mag]: 9.0° to 21.0°			Arc Distance: Out to 70.0 NM Altitude: 10000.0 to 17000.0 Ft.		

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR