

FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 STANDARD TERMINAL ARRIVAL (STAR)

THIS CORRECTS THE EFFECTIVE DATE  
 ORIGINALLY PUBLISHED IN NFDD 240

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated. Distances are in nautical miles (NM). Graphic depictions attached.

Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
MADEE RNAV	FOUR	MADEE.MADEE4	THREE	04 FEB 2016	02 MAR 2017

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Mag Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
PAINE	PAE.MADEE4	PAE VOR/DME	PAE VOR/DME						AT/ABOVE 16000
			EVRTT	333.03	07.00	10000	1900		AT/ABOVE 14000
			MADEE	333.02	19.00	6000	2100		AT/ABOVE 7000

ARRIVAL ROUTE DESCRIPTION:

LANDING BLI RWY 16: FROM MADEE ON TRACK 332.95/18.20 TO CROSS GERRD BETWEEN 5000 AND 7000, THEN ON TRACK 306.52/11.38 TO CROSS UCAKI AT OR ABOVE 4000, THEN ON TRACK 343.76/6.08 TO CROSS YAANO AT OR ABOVE 2000, THEN ON TRACK 343.76. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING BLI RWY 34: FROM MADEE ON TRACK 322.26/9.44 TO CROSS BBELT AT OR ABOVE 4000 AND AT OR BELOW 210 KIAS, THEN ON TRACK 322.20/5.12 TO CROSS TUBTY AT OR ABOVE 3500, THEN ON TRACK 343.85. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING CYXX/CZBB: FROM MADEE ON TRACK 332.95/18.20 TO CROSS GERRD BETWEEN 5000 AND 7000, THEN ON TRACK 306.52/11.38 TO CROSS UCAKI AT OR ABOVE 4000, THEN ON TRACK 343.76/6.08 TO CROSS YAANO AT OR ABOVE 2000, THEN ON TRACK 343.76. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PROCEDURAL DATA NOTES:

NOTE: RADAR REQUIRED

NOTE: RNAV 1

NOTE: DME/DME/IRU OR GPS REQUIRED

NOTE: KBLI LANDING NORTH EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER TUBTY. NOTE: KBLI LANDING SOUTH EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER YAANO. NOTE: LANDING CYXX: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER YAANO. NOTE: LANDING CZBB: EXPECT RADAR VECTORS TO FINAL APPROACH COURSE AFTER UCAKI. NOTE: LANDING BLI RUNWAY 16, CYXX and CZBB: FOR NON-GPS EQUIPPED AIRCRAFT, CVV DME MUST BE OPERATIONAL.

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT HUH VORTAC (HOLD NW, RT, 149.00 INBOUND, 4 NM LEGS.)

COMMUNICATIONS:

VICTORIA TERMINAL APP CON, WHIDBEY APP CON, KBLI TWR, KBLI ATIS, CYXX ATIS, CYXX TWR, CRANBROOK RADIO, CZBB ATIS 125.5, CZBB TWR 118.1.

AIRPORTS SERVED:

BELLINGHAM INTL, Bellingham, Wa  
 Abbotsford Airport, Abbotsford, BC  
 Boundary Bay Airport, Delta, BC

LOST COMMUNICATIONS PROCEDURE:

Landing BLI RWY 16, CYXX and CZBB: After YAANO proceed direct HUH and hold; Landing BLI RWY 34: After TUBTY execute RNAV (GPS) Y RWY 34 approach.

REMARKS:

MVA AFTER YAANO CONFIRMED AS 2000' MSL BY NAV CANADA ATC PER EMAIL ATTACHED TO PRODUCTION PACKAGE. ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

REFERENCE MAGNETIC VARIATION = KBLI 16E/2020.



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MADEE RNAV	FOUR	MADEE.MADEE4	THREE	04 FEB 2016	02 MAR 2017

FLIGHT INSPECTED BY:			Digitally signed by	
GARY J VEER	FICO	11/28/2016	<b>BEV L BORDY</b>	
Name	Organization	Date	Dec 01, 2016	Signature
DEVELOPED BY:				
LEON FULNER, SUPPORT MANAGER FOR AIRSPACE AND PROCEDURES, SEATTLE ARTCC		23 Sep 2016	For	<i>Patrick J Mulguseen</i>
Name	Organization	Date		Signature
APPROVED BY:				
LONNIE EVERHART, MANAGER	AJV-5430	23 Sep 2016	For	<i>Patrick J Mulguseen</i>
Name	Organization	Date		Signature

- CHANGES:**
1. ADDED AT/ABOVE 16000 RESTRICTON AT START OF ENROUTE TRANSITION, AT PAE.
  2. LOWERED RESTRICTION AT EVRTT ON ENROUTE TRANSITION FROM AT/ABOVE 16000 TO AT/ABOVE 14000.
  3. ADDED RESTRICTIONS AT/ABOVE 7000 AND AT/BELOW 250 KIAS AT COMMON POINT MADEE.
  4. ADDED NEW SEPARATE RWY 34 TRANSTION STARTING AT COMMON POINT MADEE.
  5. ADDED BBELT WITH RESTRICTIONS AT/ABOVE 4000 AND AT/BELOW 210 KIAS TO NEW RWY 34 TRANSTION.
  6. ADDED TUBTY (FO/FM) WITH RESTRCTION AT/ABOVE 3500 TO END OF NEW RWY 34 TRANSTION.
  7. REMOVED IWANY FROM COMMON ROUTE AND CONVERTED COMMON ROUTE TO LANDING CYXX AND CZBB ONLY.
  8. LOWERED FLOOR OF BLOCK ALTITUDE RESTRICTION AT GERRD FROM 6000 TO 5000 ON RWY 16 TRANSITION.
  9. REMOVED SPEED RESTRCTION AT GERRD.
  10. CHANGED LEG AFTER YAANO AT END OF RWY 16 TRANSTION FROM VM HEADING TO FM TRACK.
  11. REMOVED MEAs/MOCAs FROM COMMON POINT MADEE INBOUND.
  12. CHANGED CVV CRITICAL DME NOTE TO APPLY TO LANDING BLI RWY 16 AND CYXX/CZBB TRANSITIONS ONLY.
  13. ADDED BLI RWY 34 SPECIFIC INSTRUCTIONS TO LOST COMM.

- REASONS:**
1. ATC REQUEST TO PROTECT UNDERLYING AIRSPACE.
  - 2-3. INDUSTRY REQUEST: REDUCES DESCENT GRADIENT.
  4. ATC/INDUSTRY REQUEST: ALIGNS RWY TRANSITION TO RWY 34 FINAL APPROACH COURSE.
  5. ATC/INDUSTRY REQUEST TO MANAGE DESCENT GRADIENT AND SPEEDS.
  6. ATC REQUEST TO ACCOMODATE VECTORS TO FINAL.
  7. ATC REQUEST--FIX NO LONGER NEEDED ON PROCEDURE.
  8. INDUSTRY REQUEST TO REDUCE DESCENT GRADIENT.
  9. ATC/INDUSTRY REQUEST--SPEED NO LONGER NEEDED AT GERRD.



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<b>MADEE RNAV</b>	<b>FOUR</b>	<b>MADEE.MADEE4</b>	<b>THREE</b>	<b>04 FEB 2016</b>	<b>02 MAR 2017</b>

- 10. ATC REQUEST TO INSURE CONSISTENT GROUND TRACK UNAFFECTED BY WIND.
- 11. REFERENCE FAAO 8260.3C TO NOT CHART MEAs/MOCAs ON COMMON ROUTES/RUNWAY TRANSITIONS.
- 12. REQUIRED BY DME/DME/IRU ASSESSMENT FOR THESE TRANSITIONS.
- 13. NEW BLI RWY 34 TRANSITION CREATED.



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

Arrival Name <b>MADEE RNAV</b>	Number <b>FOUR</b>	STAR Computer Code <b>MADEE.MADEE4</b>	Superseded Number <b>THREE</b>	Dated <b>04 FEB 2016</b>	Effective Date <b>02 MAR 2017</b>
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
<b>En Route Transition</b>									
PAE VOR/DME	475511.40N / 1221640.08W	Y		IF			AT/ABOVE 16000		PAE.MADEE4
EVRTT	480203.46N / 1221839.18W	Y	FB	TF	349.03	07.00	AT/ABOVE 14000		
MADEE	482041.70N / 1222404.81W	Y	FB	TF	349.02	19.00	AT/ABOVE 7000	AT/BELOW 250K	

<b>Common Route</b>									
MADEE	482041.70N / 1222404.81W	Y		IF			AT/ABOVE 7000	AT/BELOW 250K	MADEE.MADEE4
GERRD	483832.56N / 1222920.45W	Y	FB	TF	348.95	18.20	5000B7000		
UCAKI	484733.45N / 1223948.81W	Y	FB	TF	322.52	11.38	AT/ABOVE 4000		
YAANO	485337.70N / 1223951.13W	Y	FO	TF	359.76	06.08	AT/ABOVE 2000		
CYXX,CZBB				FM	359.76				RECOMMENDED NAVAID: SKA TACAN

<b>Runway Transition</b>									
MADEE	482041.70N / 1222404.81W	Y		IF			AT/ABOVE 7000	AT/BELOW 250K	
GERRD	483832.56N / 1222920.45W	Y	FB	TF	348.95	18.20	5000B7000		
UCAKI	484733.45N / 1223948.81W	Y	FB	TF	322.52	11.38	AT/ABOVE 4000		
YAANO	485337.70N / 1223951.13W	Y	FO	TF	359.76	06.08	AT/ABOVE 2000		
KBLI:RWY 16				FM	359.76				RECOMMENDED NAVAID: SKA TACAN

<b>Runway Transition</b>									
MADEE	482041.70N / 1222404.81W	Y		IF			AT/ABOVE 7000	AT/BELOW 250K	
BBELT	482927.33N / 1222920.18W	Y	FB	TF	338.26	09.44	AT/ABOVE 4000	AT/BELOW 210K	
TUBTY	483412.18N / 1223211.90W	Y	FO	TF	338.20	05.12	AT/ABOVE 3500		
KBLI:RWY 34				FM	359.85				RECOMMENDED NAVAID: SKA TACAN

