

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)  
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 statute miles or feet RVR unless otherwise indicated.

<b>CITY, STATE</b>	<b>AIRPORT</b>	<b>EFFECTIVE DATE</b>	<b>AMDT NO</b>
BETTLES, AK	BETTLES	5/24/2018	3

**TAKEOFF MINIMUMS:**

**RWY 20:** STANDARD.

**RWY 2:** 500 AND 2 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 285 FT PER NM TO 1200.

**TEXTUAL DEPARTURE PROCEDURES:**

**RWY 2:** CLIMB HEADING 016.26 TO 2500 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME, CONTINUE CLIMB IN BTT HOLDING PATTERN (HOLD S, LT, 338.00 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

**RWY 20:** CLIMB HEADING 196.28 TO 2000 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME, CONTINUE CLIMB IN BTT VOR/DME HOLDING PATTERN (HOLD S, LT, 338.00 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT.

**VISUAL CLIMB OVER AIRPORT:**

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 2:** VEHICLE ON ROAD 4 FT FROM DER, 108 FT LEFT OF CENTERLINE, 660 FT MSL.  
VEHICLE ON ROAD 19 FT FROM DER, 165 FT RIGHT OF CENTERLINE, 659 FT MSL.  
TREE, VEHICLE ON ROAD BEGINNING 24 FT FROM DER, 25 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/671 FT MSL.  
VEHICLE ON ROAD 49 FT FROM DER, 71 FT RIGHT OF CENTERLINE, 660 FT MSL.  
TREES BEGINNING 138 FT FROM DER, 29 FT LEFT OF CENTERLINE, UP TO 45 FT AGL/679 FT MSL.  
TREE 410 FT FROM DER, 587 FT RIGHT OF CENTERLINE, 41 FT AGL/684 FT MSL.  
TREES BEGINNING 506 FT FROM DER, 108 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/691 FT MSL.  
TREE 2016 FT FROM DER, 972 FT LEFT OF CENTERLINE, 65 FT AGL/698 FT MSL.  
TREE 2108 FT FROM DER, 870 FT LEFT OF CENTERLINE, 72 FT AGL/704 FT MSL.  
TREE 2432 FT FROM DER, 1112 FT LEFT OF CENTERLINE, 78 FT AGL/712 FT MSL.  
TREE 1.7 NM FROM DER, 2988 FT RIGHT OF CENTERLINE, 67 FT AGL/929 FT MSL.  
TREES BEGINNING 1.8 NM FROM DER, 2436 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/1037 FT MSL.  
TREE, TERRAIN+VEG BEGINNING 1.9 NM FROM DER, 1946 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/1059 FT MSL.

**NOTE: RWY 20:** VEHICLE ON ROAD 2 FT FROM DER, 112 FT LEFT OF CENTERLINE, 649 FT MSL.  
TREE, SIGN, VEHICLE ON ROAD, VEGETATION, ANTENNA BEGINNING 2 FT FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/670 FT MSL.  
SIGN 9 FT FROM DER, 93 FT RIGHT OF CENTERLINE, 4 FT AGL/638 FT MSL.  
TREES BEGINNING 104 FT FROM DER, 189 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/666 FT MSL.  
TREES BEGINNING 139 FT FROM DER, 11 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/674 FT MSL.  
TREES BEGINNING 342 FT FROM DER, 270 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/687 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 2:** 1059 FT TREE 665630.34N/1512719.73W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

**RWY 2:** 3737 FT AAO 665536.00N/1510524.00W

**RWY 20:** 2320 FT AAO 665321.00N/1514900.00W

**REMARKS:**



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FLIGHT INSPECTED BY:  
PENDING

OFFICE SYMBOL: *Digitally signed by* DATE:  
**ADOLFO D URRUTIA**  
FICO Mar 07, 2018

DEVELOPED BY:  
IVAN BLANCO

OFFICE SYMBOL: *Digitally signed by* DATE:  
AJV-5432 **ADOLFO D URRUTIA** 03/07/2018  
Mar 07, 2018

APPROVED BY:  
PATRICK MULQUEEN

OFFICE SYMBOL: DATE:  
AJV-5430

REQUIRED EFFECTIVE DATE:  
5/24/2018

*Digitally signed by*  
**ADOLFO D URRUTIA**  
Mar 07, 2018

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:  
ZAN, AMGR

**CHANGES - REASONS:**

1. CHANGED TAKEOFF MINIMUMS FROM: RWY 1, STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 2500 OR 3100-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO: RWY 2, 500 AND 2 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 285 FT PER NM TO 1200 - NEW EVALUATION RESULT, NO OBSTACLES PENETRATE ODP ROUTE OCS OUTSIDE ICA EXTENDED, VCOA NOT REQUIRED AND RWY CHANGE WITH APRT MAG VAR CHANGE FROM 20E TO 16E.
2. CHANGED TEXTUAL DEPARTURE FROM: RWY 1, CLIMB HEADING 012.27 TO 2500 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME. CLIMB IN BTT VOR/DME HOLDING PATTERN (HOLD S, LT, 338 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE 3600 OR AS DIRECTED BY ATC TO: RWY 2: CLIMB HEADING 016.26 TO 2500 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME, CONTINUE CLIMB IN BTT VOR/DME HOLDING PATTERN (HOLD S, LT, 338.00 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT. - TO ENSURE ENROUTE OBSTACLE CLEARANCE.
3. CHANGED TEXTUAL DEPARTURE FROM: RWY 19, CLIMB HEADING 192.28 TO 1800 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME. CLIMB IN BTT VOR/DME HOLDING PATTERN (HOLD S, LT, 338 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE 3600 OR AS DIRECTED BY ATC. TO: RWY 20: CLIMB HEADING 196.28 TO 2000 THEN CLIMBING LEFT TURN TO 3600 DIRECT BTT VOR/DME, CONTINUE CLIMB IN BTT VOR/DME HOLDING PATTERN (HOLD S, LT, 338.00 INBOUND) TO CROSS BTT VOR/DME AT OR ABOVE MEA/MCA FOR ROUTE OF FLIGHT. - TO ENSURE ENROUTE OBSTACLE CLEARANCE.
4. UPDATED CONTROLLING OBSTACLE FROM: RWY 1: 3737 MSL SPOT + AAO 665536.30N/1510524.20W TO: RWY 2: 1059 FT TREE 665630.34N/1512719.73W. - NEW EVALUATION RESULT.
5. DELETED VCOA AND RWY 19 CONTROLLING OBSTACLES - VCOA REMOVED, NOT REQUIRED AND RWY HAS STANDARD CLIMB GRADIENT.
6. ADDED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT.

QUALITY  
16  
CHECKED