

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
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<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>EFFECTIVE DATE</u>
GRAND	FOUR	GRAND4.BISOP	THREE	3/16/2016	27 APRIL 2017

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**DP ROUTE DESCRIPTION:**

TAKEOFF RWY 21: CLIMB HEADING 209.66 TO 7000, THEN TURN LEFT HEADING 178 TO INTERCEPT GCN VOR/DME R-196 TO BISOP INT (MEA 10000). EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
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**PROCEDURAL DATA NOTES:**

**TAKEOFF MINIMUMS:**

RWY 3: NA - ENVIRONMENTAL.

RWY 21: 200-1 1/4 OR STANDARD WITH A MINIMUM CLIMB OF 335 FT PER NM TO 7000.

**TAKEOFF OBSTACLES NOTES:**

NOTE: RWY 21, SIGN 10 FT FROM DER, 330 FT LEFT OF CENTERLINE, 5 FT AGL/6536 FT MSL.

TREE 282 FT FROM DER, 481 FT RIGHT OF CENTERLINE, 6543 FT MSL.

GRD 440 FT FROM DER, 615 FT LEFT OF CENTERLINE, 6545 FT MSL.

TREE 1024 FT FROM DER, 711 FT RIGHT OF CENTERLINE, 6568 FT MSL.

GRD 1081 FT FROM DER, 768 FT LEFT OF CENTERLINE, 6571 FT MSL.

TREE 1285 FT FROM DER, 835 FT RIGHT OF CENTERLINE, 6575 FT MSL.

TREE 1691 FT FROM DER, 917 FT LEFT OF CENTERLINE, 6610 FT MSL.

TREE 1803 FT FROM DER, 929 FT LEFT OF CENTERLINE, 6621 FT MSL.

TREES BEGINNING 1943 FT FROM DER, 835 FT LEFT OF CENTERLINE, UP TO 6632 FT MSL.

TREE 1960 FT FROM DER, 993 FT RIGHT OF CENTERLINE, 6601 FT MSL.

TREE, POLE BEGINNING 2060 FT FROM DER, 912 FT RIGHT OF CENTERLINE, UP TO 6615 FT MSL.

TREES BEGINNING 2144 FT FROM DER, 814 FT LEFT OF CENTERLINE, UP TO 6633 FT MSL.

TREES BEGINNING 2396 FT FROM DER, 940 FT RIGHT OF CENTERLINE, UP TO 6618 FT MSL.

TREES BEGINNING 2467 FT FROM DER, 830 FT LEFT OF CENTERLINE, UP TO 6635 FT MSL.

TREES BEGINNING 2623 FT FROM DER, 573 FT RIGHT OF CENTERLINE, UP TO 6635 FT MSL.

TREES BEGINNING 2722 FT FROM DER, 868 FT LEFT OF CENTERLINE, UP TO 6642 FT MSL.

TREES BEGINNING 2840 FT FROM DER, 829 FT LEFT OF CENTERLINE, UP TO 6650 FT MSL.

TREES BEGINNING 2920 FT FROM DER, 523 FT RIGHT OF CENTERLINE, UP TO 6642 FT MSL.

TREES BEGINNING 2972 FT FROM DER, 637 FT LEFT OF CENTERLINE, UP TO 6665 FT MSL.

TREES BEGINNING 3169 FT FROM DER, 840 FT RIGHT OF CENTERLINE, UP TO 6646 FT MSL.

TREES BEGINNING 3263 FT FROM DER, 1010 FT RIGHT OF CENTERLINE, UP TO 6651 FT MSL.

TREE 3500 FT FROM DER, 1210 FT LEFT OF CENTERLINE, 6673 FT MSL.

TREES BEGINNING 3517 FT FROM DER, 800 FT LEFT OF CENTERLINE, UP TO 6678 FT MSL.



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TREES BEGINNING 3659 FT FROM DER, 914 FT LEFT OF CENTERLINE, UP TO 6688 FT MSL.  
TREE 3996 FT FROM DER, 1340 FT RIGHT OF CENTERLINE, 6653 FT MSL.  
TREES BEGINNING 4028 FT FROM DER, 1481 FT RIGHT OF CENTERLINE, UP TO 6657 FT MSL.  
TREES BEGINNING 4099 FT FROM DER, 965 FT LEFT OF CENTERLINE, UP TO 6690 FT MSL.  
TREES BEGINNING 4171 FT FROM DER, 937 FT LEFT OF CENTERLINE, UP TO 6693 FT MSL.  
TREES BEGINNING 5379 FT FROM DER, 1002 FT LEFT OF CENTERLINE, UP TO 6687 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 21: 6688 FT MSL TREE 355559.57N-1120942.64W (CLIMB CRADIENT, CLIMB TO ALTITUDE) 6693 FT MSL TREE 355553.14N-1120942.99W (CEILING) 6687 FT MSL TREE 355507.13N-1120941.48W (VISIBILITY)

**LOST COMMUNICATIONS PROCEDURES:**

**ADDITIONAL FLIGHT DATA:**

CHART: V257  
CHART: BISOP MRA 11000  
REFERENCE MAG VR: KGCN 11E EPOCH YR: 2020

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>CITY</u>	<u>STATE</u>
GRAND CANYON NATIONAL PARK	GRAND CANYON	AZ

**COMMUNICATIONS:**

CHART: GCN ATIS, GND CON, CANYON TWR, ZAB, ZLA, UNICOM, ASOS

**FIXES AND/OR NAVAIDS:**

CHART: PEACH SPRINGS (PGS) VOR/DME, DRAKE (DRK) VORTAC



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GRAND	FOUR	GRAND4.BISOP	THREE	3/16/2016	27 APRIL 2017

**REMARKS:**

ABBREVIATED AMDT

**FLIGHT INSPECTED BY:**

ALEX KRAUSE

*Digitally signed by*  
**DANIEL D OLSON**  
Jan 21, 2017

**OFFICE SYMBOL:**

**DATE:**

FICO 01/10/2017

**DEVELOPED BY:**

ROSE BOONE

*Digitally signed by*  
**ROSE BOONE**  
Oct 24, 2016

**OFFICE SYMBOL:**

**DATE:**

AJV-5412 10/11/2016

**APPROVED BY:**

MARLON ROBINSON

*Digitally signed by*  
**DANIEL D OLSON**  
Jan 21, 2017

**OFFICE SYMBOL:**

**DATE:**

AJV-5410

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

**A4A**      **ALPA**      **AOPA**      **APA**      **HAI**      **NBAA**

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**OTHER:**

ZLA, AMGR

**CHANGES - REASONS:**

1. CHANGED TAKEOFF RWY 21: CLIMB HEADING 206.66 TO 7000, THEN TURN LEFT HEADING 175 TO TAKE OFF RWY 21: CLIMB HEADING 209.66 TO 7000, THEN TURN LEFT HEADING 178.
2. CHANGED REFERENCE MAG VAR: KGCN 14E EPOCH YR: 1980 TO REFERENCE MAG VAR: KGCN 11E EPOCH YR: 2020.
3. CHANGED CLIMB GRADIENT FROM 309 TO 335.
4. UPDATED CONTROLLING OBSTACLES AND TAKE OFF OBSTACLES.

- 1-2. MAG VAR UPDATED.  
3-4. NEW SURVEY.

QUALITY  
3  
CHECKED