

**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  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
RIVERSIDE	TWO	RAL2.PDZ	ONE	01/30/2020	31 DECEMBER 2020

<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 9**, CLIMB ON HEADING 089.05 TO 1800 THEN CLIMBING RIGHT TURN HEADING 210 TO INTERCEPT PDZ VORTAC R-093 TO PDZ VORTAC, THENCE...

**TAKEOFF RWY 27**, CLIMB ON HEADING 255.06 TO INTERCEPT PDZ VORTAC R-030 TO PDZ VORTAC THENCE...

**TAKEOFF RWY 34**, CLIMBING LEFT TURN TO INTERCEPT PDZ R-030 TO PDZ VORTAC, THENCE...

...CONTINUE CLIMB IN PDZ HOLDING PATTERN (HOLD EAST, RIGHT TURNS, 258.00 INBOUND) TO CROSS PDZ VORTAC AT OR ABOVE 5000 OR HIGHER MEA FOR ROUTE OF FLIGHT BEFORE PROCEEDING ON COURSE.

**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 16**, NA - TERRAIN.

**RWY 9**, STANDARD WITH MINIMUM CLIMB OF 310 FT PER NM TO 2300.

**RWY 27**, STANDARD WITH MINIMUM CLIMB OF 470 FT PER NM TO 3000.

**RWY 34**, STANDARD WITH MINIMUM CLIMB OF 440 FT PER NM TO 2700.

**TAKEOFF OBSTACLES NOTES:**

**NOTE: RWY 09**, TERRAIN 4 FT FROM DER, 497 FT LEFT OF CENTERLINE, 836 FT MSL. FENCE, VEGETATION, TERRAIN BEGINNING 77 FT FROM DER, 496 FT LEFT OF CENTERLINE, UP TO 843 FT MSL. TREE 604 FT FROM DER, 590 FT RIGHT OF CENTERLINE, 856 FT MSL. TREES BEGINNING 989 FT FROM DER, 594 FT RIGHT OF CENTERLINE, UP TO 867 FT MSL.

**NOTE: RWY 27**, TREE 600 FT FROM DER, 548 FT RIGHT OF CENTERLINE, 786 FT MSL. POLE 609 FT FROM DER, 484 FT LEFT OF CENTERLINE, 40 FT AGL/783 FT MSL. POLE 758 FT FROM DER, 680 FT RIGHT OF CENTERLINE, 41 FT AGL/790 FT MSL. TREE 1073 FT FROM DER, 650 FT LEFT OF CENTERLINE, 803 FT MSL.

**NOTE: RWY 34**, BUILDING 29 FT FROM DER, 306 FT RIGHT OF CENTERLINE, 13 FT AGL/800 FT MSL. POLES, TREES, BUILDINGS BEGINNING 62 FT FROM DER, 200 FT RIGHT OF CENTERLINE, UP TO 811 FT MSL. BUILDING 62 FT FROM DER, 350 FT LEFT OF CENTERLINE, 35 FT AGL/796 FT MSL. POLE 300 FT FROM DER, 287 FT LEFT OF CENTERLINE, 38 FT AGL/799 FT MSL. TREE 543 FT FROM DER, 291 FT LEFT OF CENTERLINE, 814 FT MSL. TREE, BUILDING BEGINNING 829 FT FROM DER, 420 FT RIGHT OF CENTERLINE, UP TO 854 FT MSL. BUILDING 1214 FT FROM DER, 376 FT LEFT OF CENTERLINE, 70 FT AGL/832 FT MSL. TRANSMISSION LINE, POLE BEGINNING 1914 FT FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/834 FT MSL. BUILDING 1.7 NM FROM DER, 1237 FT RIGHT OF CENTERLINE, 23 FT AGL/1369 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 9**: 1630 FT MSL AAO 335619.57N/1172152.98W (CLIMB GRADIENT), 1880 FT MSL AAO 335414.67N/1172117.78W (CLIMB GRADIENT TERMINATION ALTITUDE).

**RWY 27**: 4207 FT MSL AAO 334748.50N/1173614.80W.

**RWY 34**: 1369 FT MSL BUILDING (06-026412) 335906.26N/1172643.69W (CLIMB GRADIENT), 4207 FT MSL AAO 334748.50N/1173614.80W (CLIMB GRADIENT TERMINATION ALTITUDE).

**OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:**

**ALL RWYS**: 9272 FT MSL AAO 341321.00N/1173512.00W

**LOST COMMUNICATIONS PROCEDURES:**



<b>DP NAME</b> RIVERSIDE	<b>NUMBER</b> TWO	<b>DP COMPUTER CODE</b> RAL2.PDZ	<b>SUPERSEDED NUMBER</b> ONE	<b>DATED</b> 01/30/2020	<b>ACTUAL EFFECTIVE DATE</b> 31 DECEMBER 2020
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**ADDITIONAL FLIGHT DATA:**

REFERENCE MAG VAR: KRAL 14E EPOCH YEAR: 2000.

**AIRPORTS SERVED:**

<u>AIRPORT NAME</u>	<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
RIVERSIDE MUNI	KRAL	RIVERSIDE	CA

**COMMUNICATIONS:**

ATIS, GRD CON, KRAL ATCT, SOCAL DEP CON

**FIXES AND/OR NAVAIDS:**

**REMARKS:**

VCOA NOT DEVELOPED PER ATC FOR CONGESTED AIRSPACE.

RWY 9: PROCEDURE DESIGNED TO AVOID OUTER BOUNDARY FROM OVERFLYING MARCH AFB.

RWY 27: PROCEDURE DESIGNED TO AVOID OUTER BOUNDARY FROM OVERFLYING CHINO AIRPORT. DISTANCE FROM DER TO PDZ R-030: 1.14 NM.

**FLIGHT INSPECTED BY**

THOMAS E MOLOKIE

<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
<b>DAVID TEFFETELLER</b> Oct 13, 2020	FICO	10/07/2020

**DEVELOPED BY**

SCOTT BAGENSIE

<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>
<b>SCOTT BAGENSIE</b> Sep 14, 2020	AJV-A433	08/11/2020

**APPROVED BY**

LONNIE EVERHART

<i>Digitally signed by</i>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
<b>DAVID TEFFETELLER</b> Oct 13, 2020	AJV-A430		MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZLA, SOCAL APP CON, RAL ATCT, WFPT

**CHANGES - REASONS:**

1. CHANGE RWY 27 INSTRUCTIONS FROM " CLIMB ON HEADING 269.06 UNTIL PDZ R-333, THEN CLIMBING LEFT TURN HEADING 179 TO INTERCEPT PDZ VORTAC R-273 TO PDZ VORTAC" TO "CLIMB ON HEADING 255.06 TO INTERCEPT PDZ VORTAC R-030 TO PDZ VORTAC" - REQUESTED BY ATC TO AVOID CHINO AIRPORT.
2. CHANGE RWY 34 INSTRUCTIONS FROM "CLIMB ON HEADING 344.54 TO 1700 THEN CLIMBING LEFT TURN HEADING 230 TO INTERCEPT PDZ VORTAC R-333 TO PDZ VORTAC" TO "CLIMBING LEFT TURN TO INTERCEPT PDZ R-030 TO PDZ VORTAC" - REQUESTED BY ATC TO AVOID CHINO AIRPORT.
3. CHANGED RWY 9 CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE FROM 340 TO 2700 TO 310 TO 2300 - UPDATED CONTROLLING OBSTACLES.
4. CHANGED RWY 27 CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE FROM 400 TO 3100 TO 470 TO 3000 - REVISED ROUTE DETERMINED DIFFERENT VALUES.
5. DELETED RWY 34 CLIMB TO ALTITUDE - NOT REQUIRED ON THE REVISED ROUTE AND TO AVOID CHINO AIRPORT.
6. CHANGED TAKEOFF OBSTACLE NOTES - PER TARGETS EVALUATION AND REVISED DEPARTURE ROUTES.

