

**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SUPERSEDED NUMBER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>
TJANO	ONE	TJANO1.TJANO	NONE		<b>25 JAN 2024</b>

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

**DP ROUTE DESCRIPTION:**

SAN ANTONIO INTL (KSAT):  
 TAKEOFF RWY 4: CLIMB ON HEADING 036.78 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 13L: CLIMB ON HEADING 127.63 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 13R: CLIMB ON HEADING 127.60 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 22: CLIMB ON HEADING 216.79 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 31L: CLIMB ON HEADING 307.61 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 31R: CLIMB ON HEADING 307.64 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 ...ON TRACK 205.38 TO TJANO, THEN ON TRANSITION. MAINTAIN 5000.

BOERNE STAGE FLD (5C1):  
 TAKEOFF RWY 17: CLIMB ON HEADING 169.01 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 35: CLIMB ON HEADING 349.01 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

CASTROVILLE MUNI (KCVB):  
 TAKEOFF RWY 16: CLIMB ON HEADING 156.98 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 34: CLIMB ON HEADING 336.98 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

KELLY FLD (KSKF):  
 TAKEOFF RWY 16: CLIMB ON HEADING 158.15 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 34: CLIMB ON HEADING 338.15 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

NEW BRAUNFELS NTL (KBAZ):  
 TAKEOFF RWY 13: CLIMB ON HEADING 127.73 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 17: CLIMB ON HEADING 172.71 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 31: CLIMB ON HEADING 307.74 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 35: CLIMB ON HEADING 352.71 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

PLEASANTON MUNI (KPEZ):  
 TAKEOFF RWY 16: CLIMB ON HEADING 157.10 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 34: CLIMB ON HEADING 337.10 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

RANDOLPH AFB (KRND):  
 TAKEOFF RWY 15L: CLIMB ON HEADING 145.03 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 15R: CLIMB ON HEADING 145.03 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 33L: CLIMB ON HEADING 325.03 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 33R: CLIMB ON HEADING 325.04 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...

STINSON MUNI (KSSF):  
 TAKEOFF RWY 9: CLIMB ON HEADING 094.53 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 14: CLIMB ON HEADING 137.36 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 27: CLIMB ON HEADING 274.53 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...  
 TAKEOFF RWY 32: CLIMB ON HEADING 317.36 OR AS ASSIGNED BY ATC, FOR VECTORS TO LVACA, THENCE...



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TJANO	ONE	TJANO1.TJANO	NONE		<b>25 JAN 2024</b>

...ON TRACK 205.38 TO TJANO, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE.

**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>
KAHAN	TJANO1.KAHAN	TJANO	TEEPY	TRACK 205.88	37.00	10000	2500	
		TEEPY	KAHAN	TRACK 187.04	30.85	10000	1900	
ZANNI	TJANO1.ZANNI	TJANO	TEEPY	TRACK 205.88	37.00	10000	2500	
		TEEPY	ZANNI	TRACK 196.21	30.00	10000	2300	

**PROCEDURAL DATA NOTES:**

NOTE: FOR NON-GPS EQUIPPED AIRCRAFT, THX AND SAT DME MUST BE OPERATIONAL.

**PBN REQUIREMENTS NOTES:**

RNAV 1 - DME/DME IRU OR GPS.

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**TAKEOFF MINIMUMS:**

SAN ANTONIO INTL  
RWY 4, 13L, 13R, 22, 31L, 31R: STANDARD

BOERNE STAGE FLD  
RWY 17: STANDARD WITH MINIMUM CLIMB OF 210 FT/NM TO 2200.  
RWY 35: STANDARD WITH MINIMUM CLIMB OF 250 FT/NM TO 3800.

CASTROVILLE MUNI  
RWY 16, 34: STANDARD

KELLY FLD  
RWY 16, 34: STANDARD

NEW BRAUNFELS NTL  
RWY 13, 17, 31, 35: STANDARD

PLEASANTON MUNI  
RWY 16, 34: STANDARD

RANDOLPH AFB  
RWY 15L, 15R, 33L, 33R: STANDARD

STINSON MUNI  
RWY 9: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1900  
RWY 14: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1900  
RWY 27: 300-1 5/8 OR STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 900, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT/NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FEET PRIOR TO DER.  
RWY 32: STANDARD WITH MINIMUM CLIMB OF 230 FT/NM TO 1700



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TJANO	ONE	TJANO1.TJANO	NONE		<b>25 JAN 2024</b>

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP).

**CONTROLLING OBSTACLES:**

BOERNE STAGE FIELD:

RWY 17: 1942 AAO 294015.00N/0984345.00W (CLIMB GRADIENT, CLIMB-TO ALTITUDE)

RWY 35: 3048 MSL TOWER (48-005697) 295027.00N/0984933.00W (CLIMB GRADIENT, CLIMB-TO ALTITUDE).

STINSON MUNI:

RWY 9, 14: 1546 MSL TOWER (48-004668) 291938.75N/0982117.63W (CLIMB GRADIENT, CLIMB-TO ALTITUDE).

RWY 27: 802 MSL TANK (48-169742) 292048.87N/0983016.57W (CEILING, CLIMB GRADIENT, CLIMB-TO ALTITUDE), 799 MSL TANK (48-005287) 292049.00N/0983017.00W, (VISIBILITY).

RWY 32: 1379 MSL TOWER (48-001577) 292509.00N/0982901.00W (CLIMB GRADIENT, CLIMB-TO ALTITUDE).

**MSA:**

KSAT: MSA FROM KSAT, 4100

5C1: MSA FROM 5C1, 4100

KCVB: MSA FROM KCVB, 4100

KSKF: MSA FROM KSKF, 4100

KBAZ: MSA FROM KBAZ, 3100

KPEZ: MSA FROM KPEZ, 3100

KRND: MSA FROM KRND, 3200

KSSF: MSA FROM KSSF, 4100

**LOST COMMUNICATIONS PROCEDURES:****ADDITIONAL FLIGHT DATA:**

CHART: TOP ALTITUDE: KSAT: 5000; 5C1, KCVB, KSKF, KBAZ, KPEZ, KRND, KSSF: ASSIGNED BY ATC.

AIRPORT MV: SAT (P) 4E/2020, 5C1 5E/2010, KCVB 4E/2020, KSKF 4E/2020, KBAZ 8E/1975, KPEZ 6E/2000, KRND 5E/2010, KSSF 8E/1980

CHART: MINIMUM CROSSING ALTITUDE AT LVACA-5000.

DME/DME ASSESSMENT: SAT (RNP 2.0).

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KSAT	SAN ANTONIO	TX
5C1	SAN ANTONIO	TX
KCVB	CASTROVILLE	TX
KSKF	SAN ANTONIO	TX
KBAZ	NEW BRAUNFELS	TX
KPEZ	PLEASANTON	TX
KRND	UNIVERSAL CITY	TX
KSSF	SAN ANTONIO	TX

**COMMUNICATIONS:**

SAN ANTONIO INTL: CHART: ATIS, GND CON, CLNC DEL, ATCT

STINSON MUNI: CHART: ATIS, GND CON, CLNC DEL, ATCT



<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TJANO	ONE	TJANO1.TJANO	NONE		<b>25 JAN 2024</b>

KELLY FLD: CHART: ATIS, ATCT, GND CON  
 NEW BRAUNFELS NTL: CHART: ATIS, ATCT, GND CON, CLNC DEL  
 PLEASANTON MUNI: CHART: CLNC DEL  
 RANDOLPH AFB: CHART: ATIS, ATCT, GND CON, CLNC DEL

**FIXES AND/OR NAVAIDS:**

**REMARKS:**  
 ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

**FLIGHT INSPECTED BY**

JAMES HAWLEY

*Digitally signed by*  
**JASON KRETSCHMER**      **OFFICE**      **DATE**  
 FPO      08/08/2023  
 Aug 11, 2023

**DEVELOPED BY**

PHILLIP BRANDENBURG

*Digitally signed by*  
**PHILLIP BRANDENBURG**      **OFFICE**      **DATE**  
 AJV-A423      02/28/2023  
 Apr 25, 2023

**APPROVED BY**

ALLAN WILL

*Digitally signed by*  
**JASON KRETSCHMER**      **OFFICE**      **DATE**      **TITLE**  
 AJV-A423      Aug 11, 2023      MANAGER

**REQUIRED EFFECTIVE DATE**

ROUTINE

**COORDINATED WITH:**

**A4A**     **ALPA**     **AOPA**     **APA**     **HAI**     **NBAA**     **OTHER:**ZHU, SAT APP CON, SAT ATCT, AMGR, STATE AVIATION DIRECTOR

**CHANGES - REASONS:**

ORIGINAL.



FEDERAL AVIATION ADMINISTRATION  
 FLIGHT STANDARDS SERVICE  
 DEPARTURE (DATA RECORD)

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
TJANO	ONE	TJANO1.TJANO	NONE		<b>25 JAN 2024</b>

  

<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
LVACA	290629.34N/0984059.65W	Y	-	IF	-	-	AT/ABOVE 5000		
TJANO	284900.57N/0985209.93W	Y	FB	TF	209.38	20.00			
TJANO	284900.57N/0985209.93W	Y	-	IF	-	-			TJANO1.KAHAN
TEEPY	281649.01N/0991302.73W	Y	FB	TF	209.88	37.00			
KAHAN	274627.24N/0991942.15W	Y	FB	TF	191.04	30.85			
TJANO	284900.57N/0985209.93W	Y	-	IF	-	-			TJANO1.ZANNI
TEEPY	281649.01N/0991302.73W	Y	FB	TF	209.88	37.00			
ZANNI	274834.76N/0992443.95W	Y	FB	TF	200.21	30.00			

