FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1919	1906	VOR Y RWY 21	18	12/02/2021	10E	1965

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
SJT			ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

MISSED APPROACH

MAP:

1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000, THEN LEFT TURN DIRECT SJT VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 060.00 **OUTBOUND** 3800 **FT WITHIN** 10 **MILES OF** SJT VORTAC (IAF)
2.
3. FAC: 235.00 **FAF:** SJT VORTAC **DIST FAF TO MAP:** 1.83 **DIST FAF TO THLD:** 1.83
4. MIN ALT: SJT VORTAC 2600
8. MSA FROM: SJT VORTAC 4300

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA FOR CAT D W OF RWY 18-36.

ADDITIONAL FLIGHT DATA:

SJT VORTAC TO RW21: 3.34/59.
HOLD NE, LT, 240.00 INBOUND.
CHART FAS OBST: 2045 TOWER (48-175403) 312139N/1002750W.
CHART VDP AT 0.73 DME.
DISTANCE VDP TO THLD 1.10 NM.
FAC CROSSES RWY C/L EXTENDED 478 FT FROM THLD.

QUALITY 10 CHECKED

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-21	2300	1	394	2300	1	394	2300	1 1/8	394	2300	1 1/8	394			
CIRCLING	2360	1	441	2380	1	461	2500	1 1/2	581	2580	2	661			

CHANGES - REASONS

1. REMOVED WOOLE LOM (SJ) NDB NAVAID FROM PROCEDURE - WOOLE LOM DECOMMISSIONED.
2. REMOVED FEEDERS FROM CHILD, EDWAR, AND TANKR - NOT NEEDED.
3. FAC AIMING FROM THLD CHANGED FROM 477FT TO 478FT - NEW TARGETS EVALUATION.
4. CHANGED FROM "VDP AT 0.72 DME, DISTANCE VDP TO THLD 1.11" TO "VDP AT 0.73 DME AND VDP TO THLD 1.10" - OPTIMAL DESCENT ANGLE.
5. REMOVED "CHART CIRCLING ICON" - NO LONGER REQUIRED.

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZFW, MAF ATCT, SJT APP CON, AMGR

FLIGHT CHECKED BY	*Digitally signed by*	**OFFICE**	**DATE**	
BRIAN HARRELSON	***RAKE MCGRAW***	AJF	02/03/2026	
	May 21, 2026			
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**	
ARTHUR ULVESTAD	***RAKE MCGRAW***	AJV-A422	11/18/2025	
	May 21, 2026			
APPROVED BY	*Digitally signed by*	**OFFICE**	**DATE**	**TITLE**
RAKE MCGRAW	***RAKE MCGRAW***	AJV-A422		MANAGER
	May 21, 2026			

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX	1919	SJT

PART A: OBSTRUCTION DATA SEGMENTS

INTERMEDIATE: PT

FROM	TO
10 NM	SJT VORTAC

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	10.00				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	312336.78N/1002556.62W	2100	215	8	4B	500					2600
TERRAIN	312139.00N/1002624.00W	1909 (1900)								AS700	2600

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AS700 USED TO MAINTAIN DESCENT GRADIENT. SEGMENT CONTAINED IN CLASS D AIRSPACE.

FINAL

FROM	TO
SJT VORTAC	1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS
	1.83		1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME	394	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-175403)	312139.04N/1002749.99W	2045	20	3	1A	250					2300

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX	1919	SJT

PROCEDURE TURN

FROM	TO
SJT VORTAC	10 NM

RNP	DISTANCE	PAT	MAP	HAT	HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-007985)	312516.58N/1003237.34W	2692	500	50	5D	1000				AT108	3800
TERRAIN	312545.00N/1003209.00W	2208 (2200)								AS1500	3700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH

FROM	TO
1.83 NM AFTER SJT VORTAC OR AT PAPIY/SJT 1.83 DME	SJT VORTAC

RNP	DISTANCE	PAT	MAP	HAT	HMAS
					2045

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				4000
AAO	311136.00N/1003803.00W	2710	215	8	4B	1000					3800
TERRAIN	311136.00N/1003803.00W	2509 (2500)								AS1500	4000

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY 10 CHECKED

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX	1919	SJT

CIRCLING [ ] ALL CATS [X] CAT A [X] CAT B [X] CAT C [X] CAT D [ ] CAT E [ ] NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (48-025384)	312111.85N/1003055.83W	1.32	441	2056	20	3	1A	300			2360
CATEGORY B											
TRANSMISSION_LINE (48-195293)	312103.01N/1002747.06W	1.87	461	2067	50	20	2C	300			2380
CATEGORY C											
TOWER (48-001287)	312441.66N/1002830.77W	2.95	581	2183	50	20	2C	300			2500
CATEGORY D											
TOWER (48-023478)	311901.88N/1002610.55W	3.86	661	2268	20	10	1B	300			2580

CIRCLING REMARKS:

MSA

CENTER	RADIUS
SJT VORTAC	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-004098)	312202.00N/1000249.00W	081	20.9	3283	500	50	5D	1000			4300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

MAF TOWER, SJT FSS

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	SJT	24	SJT		Y	0

BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS

WX REMARKS:

BACKUP ALTIMETER SOURCE NOT ESTABLISHED DUE TO AVAILABILITY OF NWS AND ATC AT THE AIRPORT.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT
SJT VORTAC	ZFW	24	1

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SJT	VOR Y RWY 21	18A	SAN ANGELO	TX	1919	SJT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW09 - MIRL (PCL)	BSC-G	
RW27 - MIRL (PCL)	BSC-G	
RW18 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-G	
RW36 - MIRL (PCL), PAPI-4L (PCL)	NPI-G	
RW03 - MALSR (PCL), HIRL (PCL)	PIR-G	APPROACH
RW21 - HIRL (PCL), VASI-4L	PIR-G	ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
					3.00	52.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD [ ] 478 FT FROM THRESHOLD DISPLACED THRESHOLD DISTANCE

ON CENTERLINE [X] FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA

CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

QUALITY 10 CHECKED

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	MAP	**TO 1000FT POINT**	8.83
WIDTH OF	INTERMEDIATE	**SEGMENT AT 1000FT POINT**	7.20
TRUE COURSE OF	INTERMEDIATE	**SEGMENT CONTAINING 1000FT POINT**	250.00
HIGH TERRAIN IN	INTERMEDIATE	**SEGMENT CONTAINING 1000FT POINT**	1900
DISTANCE FROM	MAP	**TO 1500FT POINT**	8.83
WIDTH OF	INTERMEDIATE	**SEGMENT AT 1500FT POINT**	7.20
TRUE COURSE OF	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	250.00
HIGH TERRAIN IN	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	1900

THRESHOLD COORDINATES (IF STR-IN)	312141.81N/1002912.68W
ARP COORDINATES	312127.89N/1002946.70W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 36 DISTANCE 0.69 NM
FAF COORDINATES	312229.84N/1002717.53W
FIX NAME COORDINATES	

REMARKS

1500-FOOT POINT LOCATED IN THE PT MANEUVERING AREA.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
ARTHUR ULVESTAD	AJV-A422	11/18/2025	AERONAUTICAL INFORMATION SPECIALIST