FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
809	770	RNAV (GPS) Y RWY 22	3	01/25/2024	4E	2020

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

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
AIROR	IAF	BRRBA		TF	FB	1.00	216.97	3.55	5000
BRRBA		QUUUE		TF	FB	1.00	216.81	3.50	4000
QUUUE		BRSQT		TF	FB	1.00	216.81	1.90	3500
AREEA	IAF	BRSQT		TF	FB	1.00	126.77	4.81	3500
TYRYN	IAF	BRSQT		TF	FB	1.00	306.84	4.61	3500
BRSQT	IF	INOUT		TF	FB	1.00	216.81	4.43	2100
INOUT	FAF	ZIPEL/1.79 NM TO RW22		TF	FB	0.30	216.81	2.26	
ZIPEL/1.79 NM TO RW22		RW22	MAP	TF	FO	0.30	216.81	1.79	
RW22	MAP	970 MSL		CA			216.81		
970 MSL		IMIKE		DF	FB	1.00			
IMIKE		EMBOW		TF	FO	1.00	136.51	15.62	3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT IMIKE AND ON TRACK 136.51 TO EMBOW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. PROFILE STARTS AT BRSQT
3. **FAC:** 216.81 **FAF:** INOUT **DIST FAF TO MAP:** 4.05 **DIST FAF TO THLD:** 4.05
4. **MIN ALT:** BRSQT 3500, INOUT 2100, ZIPEL/1.79 NM TO RW22 1380
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **200 HAT:** 0.50 **GS ANT:**
6. **MIN GP INCPT:** 2100 **GP ALT AT PFAF:** INOUT 2100 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 55.0
8. **MSA FROM:** RW22 4100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6°C OR ABOVE 54°C.
CHART NOTE: CIRCLING NA NW OF RWYS 4 AND 13R.
CHART SPEED ICON IN PLANVIEW AT AIROR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT AREEA: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT TYRYN: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT BRSQT: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 6000 AT AIROR.
CHART A-635.
HOLD S, RT, 344.00 INBOUND.
CHART FAS OBST: 929 TOWER (48-198338) 293335N/0982525W.
CHART VDP AT 1.25 NM TO RW22.
WAAS CHANNEL # 69430
REFERENCE PATH ID: W22A
LTP HAE: 204.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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
LPV DA	970	3/4	200	970	3/4	200	970	3/4	200	970	3/4	200			
LNAV/VNAV DA	1240	1 3/8	470	1240	1 3/8	470	1240	1 3/8	470	1240	1 3/8	470			
LNAV MDA	1240	1	470	1240	1	470	1240	1 3/8	470	1240	1 3/8	470			
CIRCLING	1280	1	471	1340	1	531	1420	1 3/4	611	1540	2 1/4	731			

AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX

CHANGES - REASONS

1. UPDATED FIX NAME ERROR TO AIROR. – IDENTIFIED AS A HUMAN FACTOR AND SAFETY CONCERN BY FLYING COMMUNITY.
2. INCREASED LNAV/VNAV DA/HAT FROM 1220/450 TO 1240/470. – NEW CONTROLLING OBSTACLE FOUND IN LNAV FINAL; SLOPING OCS NOT REQUIRED TO BE HIGHER THAN LNAV MDA.
3. INCREASED LNAV MDA/HAT 1220/450 TO 1240/470. – NEW CONTROLLING OBSTACLE.
4. INCREASED CIRCLING CAT D MDA/HAA 1520/711 TO 1540/731. – NEW CONTROLLING OBSTACLE.
5. UPDATED DISTANCE INOUT TO ZIPEL FROM 2.51 TO 2.26; ZIPEL TO RW22 FROM 1.54 TO 1.79. – STEPDOWN FIX ALTITUDE INCREASED; FIX MOVED.
6. UPDATED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA FROM “BELOW -5°C OR ABOVE 54°C” TO “BELOW -6°C OR ABOVE 54°C.” – NEW 5-YEAR WEATHER STUDY COMPLETED.
7. UPDATED ADDITIONAL FLIGHT DATA: FROM CHART MANDATORY 6000 AT ERROR TO CHART MANDATORY 6000 AT AIROR. – FIX NAME CHANGED.
8. UPDATED CHART FAS OBST: FROM “910 TOWER (48-014709) 293215N/0982653W” TO “929 TOWER (48-198338) 293335N/0982525W.” – NEW LNAV STEPDOWN CONTROLLER.
9. ADDED ADDITIONAL FLIGHT DATA: CHART A-635. - TO MATCH RNAV (RNP) Z RWY 22.
10. ADDED ADDITIONAL FLIGHT DATA: CHART VDP AT 1.25 NM TO RW22. - IAW 8260.19J 8-6-11 M.

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZHU ARTCC, SAT APP CON

FLIGHT CHECKED BY		**OFFICE**	**DATE**
DUSTIN D HANSON	*Digitally signed by* ***CASIMIR L TABAKA*** Jul 21, 2025	AJF	07/17/2025
DEVELOPED BY		**OFFICE**	**DATE**
CASIMIR L. TABAKA (BARBARA GORMAN)	*Digitally signed by* ***CASIMIR L TABAKA*** Jul 21, 2025	AJV-A432	06/04/2025
APPROVED BY		**OFFICE**	**DATE**
CASIMIR L. TABAKA	*Digitally signed by* ***CASIMIR L TABAKA*** Jul 21, 2025	AJV-A430	

TITLE
MANAGER

QUALITY 39 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSAT
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	293227.3925N
LTP/FTP LONGITUDE	0982708.7715W
LTP/FTP ELLIPSOIDAL HEIGHT	+02045
FPAP LATITUDE	293119.7580N
FPAP LONGITUDE	0982815.4845W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	81B3E8A8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02300
FPAP ORTHOMETRIC HEIGHT	+02300

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

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM	TO
AIROR	BRRBA

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	3.55				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-001037)	294604.74N/0981436.06W	1633	50	20	2C	1000				AT2367	5000
TERRAIN	294600.00N/0981439.00W	1213 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL: STEPDOWN

FROM	TO
BRRBA	QUUUE

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	3.50				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	294421.00N/0981724.00W	1382	215	8	4B	1000				AT1618	4000
TERRAIN	294227.00N/0981954.00W	1164 (1200)								AS1500	2700

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

INITIAL: STEPDOWN

FROM	TO
QUUUE	BRSQT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	1.90				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-011648)	293946.77N/0981938.45W	1352	50	20	2C	1000				AT1148	3500
TERRAIN	294136.00N/0982106.00W	1125 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM	TO
AREEA	BRSQT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	4.81				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-008082)	294107.24N/0982658.27W	1648	250	50	4D	1000				AT852	3500
TERRAIN	294118.00N/0982542.00W	1279 (1300)								AS1500	2800

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

INITIAL

FROM	TO
TYRYN	BRSQT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	4.61				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-011648)	293946.77N/0981938.45W	1352	50	20	2C	1000				AT1148	3500
TERRAIN	294051.00N/0982048.00W	1079 (1100)								AS1500	2600

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM	TO
BRSQT	INOUT

RNP	DISTANCE	PAT	MAP	HAT	HMAS
1.00	4.43				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-004001)	293602.90N/0982306.69W	1448	20	3	1A	500					2000
TERRAIN	293857.00N/0982203.00W	1082 (1100)								AS1000	2100

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

FINAL: LPV

FROM	TO
INOUT	RW22

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.05		DA	200	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				970

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM	TO
INOUT	RW22

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	4.05		DA	470	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-003219)	293306.00N/0982554.00W	910	500	50	5D		22.34:1			AC50	1240

COMPUTATIONS

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

SEGMENT REMARKS:

IAW 8260.58C 3-3-5, THE DA BASED ON THE EVALUATION OF THE SLOPING OCS IS NOT REQUIRED TO BE HIGHER THAN THE MDA OF AN LNAV PROCEDURE ESTABLISHED ON THE SAME CHART. DA LOWERED TO MATCH LNAV.

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

FINAL: LNAV

FROM	TO
INOUT	ZIPEL/1.79 NM TO RW22

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	2.26				

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	293509.00N/0982433.00W	1129	215	8	4B	250					1380

COMPUTATIONS

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

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM	TO
ZIPEL/1.79 NM TO RW22	RW22

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30	1.79		RW22	470	

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (48-198338)	293334.71N/0982524.76W	929	250	50	4D	250				AC50	1240

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

MISSED APPROACH: LPV

FROM	TO
DA	EMBOW

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					795

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
TOWER (48-001577)	292509.00N/0982901.00W	1379	100	50	3D	1000					2400
TERRAIN	292851.00N/0983342.00W	898 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM	TO
DA	EMBOW

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					1079

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
TOWER (48-001577)	292509.00N/0982901.00W	1379	100	50	3D	1000					2400
TERRAIN	292851.00N/0983342.00W	898 (900)								AS1500	2400

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
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

MISSED APPROACH: LNAV

FROM	TO
RW22	EMBOW

RNP	DISTANCE	PAT	MAP	HAT	HMAS
0.30-1.00					1140

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
TOWER (48-001577)	292509.00N/0982901.00W	1379	100	50	3D	1000					2400
TERRAIN	292851.00N/0983342.00W	898 (900)								AS1500	2400

COMPUTATIONS

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

SEGMENT REMARKS:

CIRCLING ☐ ALL CATS ☒ CAT A ☒ CAT B ☒ CAT C ☒ CAT D ☐ CAT E ☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE	293339.00N/0982818.00W	1.30	471	965	250	10	4B	300			1280
CATEGORY B											
BUILDING (48-004065)	293247.00N/0982513.00W	1.83	531	1028	50	3	2A	300			1340
CATEGORY C											
TANK (48-005036)	293512.15N/0982917.97W	2.88	611	1101	20	3	1A	300			1420
CATEGORY D											
AAO	293527.00N/0983151.00W	3.77	731	1224	215	8	4B	300			1540

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW22	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (48-005142)	293639.00N/0985334.00W	276	23.4	3049	500	125	5E	1000			4100

MSA REMARKS:

AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
SAT	RNAV (GPS) Y RWY 22	4	SAN ANTONIO	TX	809	RNAV

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

SAT TOWER, SAT APP CON

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

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

WX REMARKS:

REDUNDANT WEATHER SOURCES, BACKUP ALTIMETER NOT REQUIRED.

PRIMARY NAVAID	MONITOR POINT	HRS OPERATION	CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW31R - REIL, MIRL, PAPI-4L	BSC-G	
RW13L - MIRL, REIL, PAPI-4L	NPI-G	
RW04 - MALS, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH
RW13R - ALSF-2, TDZ, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22 - C/LINE, REIL, HIRL, PAPI-4L	PIR-G	ROLL OUT
RW31L - MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT

GLIDESLOPE ANGLE	ELEV RWY THRESHOLD	TCH	ELEV GS ANTENNA	DISTANCE FROM RWY	VGSI ANGLE	TCH
3.00	754.5	55.0			3.00	85.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	X	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	X	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
-6C	+54C	-6C	+13.4C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 965 HIGH TEMP 1273.

"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.

75 FT VEGETATION PER FPT/CHECKLIST.

FIX TYRYN CONNECTED TO CRVZA STAR.
ORDER 8260.3 CHAPTER 2 APPLIED TO 1165 AAO 293533.00N/0982412.00W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

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	THLD	**TO 1000FT POINT**	3.74
WIDTH OF	FINAL	**SEGMENT AT 1000FT POINT**	1.84
TRUE COURSE OF	FINAL	**SEGMENT CONTAINING 1000FT POINT**	220.81
HIGH TERRAIN IN	FINAL	**SEGMENT CONTAINING 1000FT POINT**	1000
DISTANCE FROM	FAF	**TO 1500FT POINT**	2.23
WIDTH OF	INTERMEDIATE	**SEGMENT AT 1500FT POINT**	6.20
TRUE COURSE OF	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	220.81
HIGH TERRAIN IN	INTERMEDIATE	**SEGMENT CONTAINING 1500FT POINT**	1100

THRESHOLD COORDINATES (IF STR-IN)	293227.39N/0982708.77W
ARP COORDINATES	293202.25N/0982808.61W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 13R DISTANCE 1.01 NM
FAF COORDINATES	293531.91N/0982406.60W
FIX NAME COORDINATES	IF BRSQT 293853.56N/0982047.39W

REMARKS

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
CASIMIR L. TABAKA (BARBARA GORMAN)	AJV-A432	06/04/2025	AERONAUTICAL INFORMATION SPECIALIST